NUS CORPORATION
910 CLOPPER ROAD
GAITHERSBURG, MARYLAND 20878-1399
301-258-6000

EMD-86-051
March 21, 1986

Ms. Jackie Prince
U.S. Environmental Protection Agency
Region I
J.F.K. Federal Building - Room 2303
Boston, MA 02203

Dear Ms. Prince:

Enclosed is a copy of Volume II of the draft report, "Ambient Air Monitoring Program, Acushnet River Estuary, New Bedford, Massachusetts," for your review. Volume II contains only Appendices D and E, which consist of copies of the laboratory sample analysis reports for metals and PCBs, respectively. If you have any questions or comments, please contact me at 301-258-2546.

Sincerely,

Roger P. Andes

Roger P. Andes
Air Quality Engineer

RPA:jw
Enclosure
cc: P. Kahn, w/enclosure (ESD Region I EPA)
J. Yeasted, w/o enclosure (NUS PEC)

New Bedford
3.4
285232

SDMS DocID 285232

AMBIENT AIR MONITORING PROGRAM

Achushet River Estuary
New Bedford, Massachusetts

Volume II

Prepared by
NUS Corporation
March 1986

AMBIENT AIR MONITORING PROGRAM

Achushet River Estuary
New Bedford, Massachusetts

Volume II

Prepared by
NUS Corporation
March 1986

Appendix D

Laboratory Metals Analysis Reports and Quality Control Forms

Date December 6, 1985

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name NUS Corporation Case No. New Bedford

SOW No. 784 Q.C. Report No. _____

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
Filter #1	15091461	Filter #10	15091470
Filter #2	15091462	Filter #11	15091471
Filter #3	15091463	Filter #12	15091472
Filter #4	15091464	Filter #13	15091473
Filter #5	15091465	Filter #14	15091474
Filter #6	15091466	Filter #20	15091475
Filter #7	15091467		
Filter #8	15091468		
Filter #9	15091469		

Comments: Comments are listed on a separate page immediately following the Cover Page.

ICP Interelement and background corrections applied? Yes ____ No ____.

If yes, corrections applied before _____ or after _____ generation of raw data.

Footnotes:

NR - not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP/Flame AA) or F (for furnace).

U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

s - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

COMMENTS:

① All graphite furnace analyses were spiked with a single addition to determine if the Method of Standard Addition was required. The following samples required MSA:

15091461 Pb ref: notebook 34-85 page 16 and Form VIII
15091463 Pb ref: notebook 34-85 page 16 and Form VIII
15091466 Pb ref: notebook 34-85 page 16 and Form VIII
15091468 Pb ref: notebook 34-85 page 17 and Form VIII
15091470 Pb ref: notebook 34-85 page 17 and Form VIII
15091474 Pb ref: notebook 34-85 page 17 and Form VIII
1509147~~4~~5 Pb ref: notebook 34-85 page 17 and Form VIII

② The spike recoveries reported on Form V, the RPD's reported on Form VI, and the Standard Addition results reported on Form VIII are based on the readout before the result is determined in mg/filter.

③ Instrument detection limits are reported in ug/liter on Form VII. To determine the detection limit in mg/filter, the following calculation was used:

(IDL in mg/liter)x(100 mL/0.25 filter)x(liter/1000 mL)

Form I

Sample No.
Filter #1

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation

CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091461

QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum			13.	Magnesium		
2.	Antimony			14.	Manganese		
3.	Arsenic			15.	Mercury		
4.	Barium			16.	Nickel		
5.	Beryllium			17.	Potassium		
6.	Cadmium	0.002 U	(P)	18.	Selenium		
7.	Calcium			19.	Silver		
8.	Chromium	0.004 U	(P)	20.	Sodium		
9.	Cobalt			21.	Thallium		
10.	Copper			22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	0.070 ② (+)	(F)	24.	Zinc	20.4 ①	(P)

Cyanide _____ Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ① A 5ml/50ml X 5ml/50ml dilution was used for analyses.

② A 5ml/50ml dilution was used for analyses.

Lab Manager Kathy Del Signore /gmm

Form I

Sample No.
Filter #2

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091462 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum		13.	Magnesium	
2.	Antimony		14.	Manganese	
3.	Arsenic		15.	Mercury	
4.	Barium		16.	Nickel	
5.	Beryllium		17.	Potassium	
6.	Cadmium	0.002 U (P)	18.	Selenium	
7.	Calcium		19.	Silver	
8.	Chromium	0.004 U (P)	20.	Sodium	
9.	Cobalt		21.	Thallium	
10.	Copper		22.	Tin	
11.	Iron		23.	Vanadium	
12.	Lead	0.028 (2) (F)	24.	Zinc	15.2 (1) (P)

Cyanide _____ Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: 1 A 5ml/50ml X 5ml/50ml dilution was used for analyses.

2 A 10ml/50ml dilution was used for analyses.

Lab Manager Kathy DeCSignou /gmm

Form I

Sample No.
Filter #3

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation

CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091463

QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum			13.	Magnesium		
2.	Antimony			14.	Manganese		
3.	Arsenic			15.	Mercury		
4.	Barium			16.	Nickel		
5.	Beryllium			17.	Potassium		
6.	Cadmium	0.002 U	(P)	18.	Selenium		
7.	Calcium			19.	Silver		
8.	Chromium	0.004 U	(P)	20.	Sodium		
9.	Cobalt			21.	Thallium		
10.	Copper			22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	0.065 (2) s	(F)	24.	Zinc	28.4 (1)	(P)

Cyanide _____ Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: (1) A 5ml/50ml X 5ml/50ml dilution was used for analyses.

(2) A 5ml/50ml dilution was used for analyses.

Lab Manager Kathy DeSignalovich

Form I

Sample No.
Filter #4

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091464 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum			13.	Magnesium		
2.	Antimony			14.	Manganese		
3.	Arsenic			15.	Mercury		
4.	Barium			16.	Nickel		
5.	Beryllium			17.	Potassium		
6.	Cadmium	0.002 U	(P)	18.	Selenium		
7.	Calcium			19.	Silver		
8.	Chromium	0.004 U	(P)	20.	Sodium		
9.	Cobalt			21.	Thallium		
10.	Copper			22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	0.072 (2)	(F)	24.	Zinc	20.4 (1)	(P)

Cyanide _____ Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: (1) A 5ml/50ml X 5ml/50ml dilution was used for analyses.

(2) A 5ml/50ml dilution was used for analyses.

Lab Manager Kathy DelSignore (jmm

Form I

Sample No.
Filter #5

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091465 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum			13.	Magnesium		
2.	Antimony			14.	Manganese		
3.	Arsenic			15.	Mercury		
4.	Barium			16.	Nickel		
5.	Beryllium			17.	Potassium		
6.	Cadmium	0.002 U	(P)	18.	Selenium		
7.	Calcium			19.	Silver		
8.	Chromium	0.004 U	(P)	20.	Sodium		
9.	Cobalt			21.	Thallium		
10.	Copper			22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	0.065 (2)	(F)	24.	Zinc	29.6 (1)	(P)

Cyanide _____ Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: (1) A 5m/50ml X 5ml/50ml dilution was used for analyses.

(2) A 5ml/50ml dilution was used for analyses.

Lab Manager [signature]

Form I

Sample No.
Filter #6

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091466 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum			13.	Magnesium		
2.	Antimony			14.	Manganese		
3.	Arsenic			15.	Mercury		
4.	Barium			16.	Nickel		
5.	Beryllium			17.	Potassium		
6.	Cadmium	0.002 U	(P)	18.	Selenium		
7.	Calcium			19.	Silver		
8.	Chromium	0.004 U	(P)	20.	Sodium		
9.	Cobalt			21.	Thallium		
10.	Copper			22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	0.059 (2) S	(F)	24.	Zinc	29.2 (1)	(P)

Cyanide _____ Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: 1 A 5ml/50ml X 5ml/50ml dilution was used for analyses

2 A 5ml/50ml dilution was used for analyses

Lab Manager Kathy Del Signolynn

Form I

Sample No.
Filter #7

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091467 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum		13.	Magnesium	
2.	Antimony		14.	Manganese	
3.	Arsenic		15.	Mercury	
4.	Barium		16.	Nickel	
5.	Beryllium		17.	Potassium	
6.	Cadmium	0.002 U (P)	18.	Selenium	
7.	Calcium		19.	Silver	
8.	Chromium	0.004 U (P)	20.	Sodium	
9.	Cobalt		21.	Thallium	
10.	Copper		22.	Tin	
11.	Iron		23.	Vanadium	
12.	Lead	0.057 (2) (F)	24.	Zinc	34.4 (1) (P)
	Cyanide			Percent Solids (%)	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: (1) A 5ml/50ml X 5ml/50ml dilution was used for analyses.
(2) A 10ml/50ml dilution was used for analyses.

Lab Manager Kathy Del Signor/gmm

Form I

Sample No.
Filter #8

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091468 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum		13.	Magnesium	
2.	Antimony		14.	Manganese	
3.	Arsenic		15.	Mercury	
4.	Barium		16.	Nickel	
5.	Beryllium		17.	Potassium	
6.	Cadmium	0.002 U (P)	18.	Selenium	
7.	Calcium		19.	Silver	
8.	Chromium	0.004 U (P)	20.	Sodium	
9.	Cobalt		21.	Thallium	
10.	Copper		22.	Tin	
11.	Iron		23.	Vanadium	
12.	Lead	0.084 ② s (F)	24.	Zinc	29.6 ① (P)
	Cyanide			Percent Solids (%)	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ① A 5ml/50ml X 5ml/50ml dilution was used for analyses.
② A 5ml/50ml dilution was used for analyses.

Lab Manager Kathy Del Signore/jmm

Form I

Sample No.
Filter #9

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091469 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum		13.	Magnesium	
2.	Antimony		14.	Manganese	
3.	Arsenic		15.	Mercury	
4.	Barium		16.	Nickel	
5.	Beryllium		17.	Potassium	
6.	Cadmium	0.002 U (P)	18.	Selenium	
7.	Calcium		19.	Silver	
8.	Chromium	0.004 U (P)	20.	Sodium	
9.	Cobalt		21.	Thallium	
10.	Copper		22.	Tin	
11.	Iron		23.	Vanadium	
12.	Lead	0.060 (2) (F)	24.	Zinc	22.8 (1) (P)
	Cyanide			Percent Solids (%)	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: (1) A 5ml/50ml X 5ml/50ml dilution was used for analyses.

(2) A 5ml/50ml dilution was used for analyses.

Lab Manager Kathy DeC Signature/[illegible]

Form I

Sample No.
Filter #10

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091470 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum		13.	Magnesium	
2.	Antimony		14.	Manganese	
3.	Arsenic		15.	Mercury	
4.	Barium		16.	Nickel	
5.	Beryllium		17.	Potassium	
6.	Cadmium	0.002 U (P)	18.	Selenium	
7.	Calcium		19.	Silver	
8.	Chromium	0.004 U (P)	20.	Sodium	
9.	Cobalt		21.	Thallium	
10.	Copper		22.	Tin	
11.	Iron		23.	Vanadium	
12.	Lead	0.046 (2) s (F)	24.	Zinc	34.0 (1) (P)
	Cyanide			Percent Solids (%)	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: (1) A 5ml/50ml X 5ml/50ml dilution was used for analyses.

(2) A 10ml/50ml dilution was used for analyses.

Lab Manager Kathy Di Signore/jmm

Form I

Sample No.
Filter #11

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091471 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum			13.	Magnesium		
2.	Antimony			14.	Manganese		
3.	Arsenic			15.	Mercury		
4.	Barium			16.	Nickel		
5.	Beryllium			17.	Potassium		
6.	Cadmium	0.002 U	(P)	18.	Selenium		
7.	Calcium			19.	Silver		
8.	Chromium	0.016	(P)	20.	Sodium		
9.	Cobalt			21.	Thallium		
10.	Copper			22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	0.172 ②	(F)	24.	Zinc	20.4 ①	(P)

Cyanide _____ Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: ① A 5ml/50ml X 5ml/50ml dilution was used for analyses.

② A 5ml/100ml dilution was used for analyses.

Lab Manager Kathy DeSilva/gmm

Form I

Sample No.
Filter #12

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091472 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum		13.	Magnesium	
2.	Antimony		14.	Manganese	
3.	Arsenic		15.	Mercury	
4.	Barium		16.	Nickel	
5.	Beryllium		17.	Potassium	
6.	Cadmium	0.002 U (P)	18.	Selenium	
7.	Calcium		19.	Silver	
8.	Chromium	0.012 (P)	20.	Sodium	
9.	Cobalt		21.	Thallium	
10.	Copper		22.	Tin	
11.	Iron		23.	Vanadium	
12.	Lead	0.061 (2) (F)	24.	Zinc	40.8 (1) (P)

Cyanide _____ Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: (1) A 5ml/50ml X 5ml/50ml dilution was used for analyses.
(2) A 5ml/50ml dilution was used for analyses.

Lab Manager Kathy DelSignore/jmm

Form I

Sample No.
Filter #13

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091473 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

1.	Aluminum		13.	Magnesium	
2.	Antimony		14.	Manganese	
3.	Arsenic		15.	Mercury	
4.	Barium		16.	Nickel	
5.	Beryllium		17.	Potassium	
6.	Cadmium	0.002 U (P)	18.	Selenium	
7.	Calcium		19.	Silver	
8.	Chromium	0.004 U (P)	20.	Sodium	
9.	Cobalt		21.	Thallium	
10.	Copper		22.	Tin	
11.	Iron		23.	Vanadium	
12.	Lead	0.043 (2) (F)	24.	Zinc	37.2 (1) (P)
	Cyanide			Percent Solids (%)	

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: (1) A 5m/50ml X 5ml/50ml dilution was used for analyses.

(2) A 5ml/50ml dilution was used for analyses.

Lab Manager Kathy Del Signore/[illegible]

Form I

Sample No.
Filter #14

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091474 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum			13.	Magnesium		
2.	Antimony			14.	Manganese		
3.	Arsenic			15.	Mercury		
4.	Barium			16.	Nickel		
5.	Beryllium			17.	Potassium		
6.	Cadmium	0.002 U	(P)	18.	Selenium		
7.	Calcium			19.	Silver		
8.	Chromium	0.012	(P)	20.	Sodium		
9.	Cobalt			21.	Thallium		
10.	Copper			22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	0.057 (2) s	(F)	24.	Zinc	33.6 (1)	(P)

Cyanide _____ Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: (1) A 5ml/50ml X 5ml/50ml dilution was used for analyses.

(2) A 10ml/50ml dilution was used for analyses.

Lab Manager Kathy Del Signore

Form I

Sample No.
Filter #20

Date December 6, 1985

INORGANIC ANALYSIS DATA SHEET

LAB NAME NUS Corporation CASE NO. New Bedford

SOW NO. 784

LAB SAMPLE ID. NO. 15091475 QC REPORT NO. _____

Elements Identified and Measured

Concentration: Low _____ Medium _____

Matrix: Water _____ Soil _____ Sludge _____ Other X

mg/filter

1.	Aluminum			13.	Magnesium		
2.	Antimony			14.	Manganese		
3.	Arsenic			15.	Mercury		
4.	Barium			16.	Nickel		
5.	Beryllium			17.	Potassium		
6.	Cadmium	0.002 U	(P)	18.	Selenium		
7.	Calcium			19.	Silver		
8.	Chromium	0.004 U	(P)	20.	Sodium		
9.	Cobalt			21.	Thallium		
10.	Copper			22.	Tin		
11.	Iron			23.	Vanadium		
12.	Lead	0.031 (1) (+)	(F)	24.	Zinc	0.040	(P)

Cyanide _____ Percent Solids (%) _____

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments: (1) A 10ml/50ml dilution was used for analyses.

Lab Manager: Kathy DeSimone/[illegible]

Form II -A

Q. C. Report No. _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION③

LAB NAME NUS Corporation

CASE NO. New Bedford

SOW NO. 784

DATE December 6, 1985

UNITS ug/liter

Compound	Initial Calib①			Continuing Calibration②					
Metals:	True Value	Found	%R	True Value	Found	%R	Found	%R	Method④
1. Aluminum									
2. Antimony									
3. Arsenic									
4. Barium									
5. Beryllium									
6. Cadmium	246	246	100	256	245	99.6	245	99.6	P
7. Calcium									
8. Chromium	571	560	98.1	571	580	101.6	570	99.8	P
9. Cobalt									
10. Copper									
11. Iron									
12. Lead	754⑤	766	102	754⑤	788	104.5	800	106	F
13. Magnesium									
14. Manganese									
15. Mercury									
16. Nickel									
17. Potassium									
18. Selenium									
19. Silver									
20. Sodium									
21. Thallium									
22. Tin									
23. Vanadium									
24. Zinc	991	960	96.9	991	990	99.9	980	98.9	P
Other:									
Cyanide									

① Initial Calibration Source See Attachment II-E2 Continuing Calibration Source See Attachment II-E

③ Control Limits: Mercury and Tin 80-120; All Other Compounds 90-110

④ Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

⑤ 5ml/100ml dilution was used for analyses.

Form II -B

Q. C. Report No. _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION (3)

LAB NAME NUS Corporation

CASE NO. New Bedford

SOW NO. 784

DATE December 6, 1985

UNITS ug/liter

Compound	Initial Calib. (1)			Continuing Calibration (2)					
Metals:	True Value	Found	%R	True Value	Found	%R	Found	%R	Method (4)
1. Aluminum									
2. Antimony									
3. Arsenic									
4. Barium									
5. Beryllium									
6. Cadmium				246	245	99.6			P
7. Calcium									
8. Chromium				571	570	99.8			P
9. Cobalt									
10. Copper									
11. Iron									
12. Lead				754	788	105	794	105	F
13. Magnesium									
14. Manganese									
15. Mercury									
16. Nickel									
17. Potassium									
18. Selenium									
19. Silver									
20. Sodium									
21. Thallium									
22. Tin									
23. Vanadium									
24. Zinc				991	940	94.8			P
Other:									
Cyanide									

(1) Initial Calibration Source See Attachment II-E (2) Continuing Calibration Source See Attachment II-E

(3) Control Limits: Mercury and Tin 80-120; All Other Compounds 90-110

(4) Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

Form II-C

Q. C. Report No. _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION (3)

LAB NAME NUS Corporation

CASE NO. New Bedford

SOW NO. 784

DATE December 6, 1985

UNITS ug/liter

Compound	Initial Calib. (1)			Continuing Calibration (2)					
Metals:	True Value	Found	%R	True Value	Found	%R	Found	%R	Method (4)
1. Aluminum									
2. Antimony									
3. Arsenic									
4. Barium									
5. Beryllium									
6. Cadmium									
7. Calcium									
8. Chromium									
9. Cobalt									
10. Copper									
11. Iron									
12. Lead				754	776	103	760	101	F
13. Magnesium									
14. Manganese									
15. Mercury									
16. Nickel									
17. Potassium									
18. Selenium									
19. Silver									
20. Sodium									
21. Thallium									
22. Tin									
23. Vanadium									
24. Zinc									
Other:									
Cyanide									

(1) Initial Calibration Source See Attachment II-E (2) Continuing Calibration Source See Attachment II-E

(3) Control Limits: Mercury and Tin 80-120; All Other Compounds 90-110

(4) Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

Form II -D

Q. C. Report No. _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION (3)

LAB NAME NUS Corporation

CASE NO. New Bedford

SOW NO. 784

DATE December 6, 1985

UNITS ug/liter

Compound	Initial Calib. (1)			Continuing Calibration (2)					
Metals:	True Value	Found	%R	True Value	Found	%R	Found	%R	Method (4)
1. Aluminum									
2. Antimony									
3. Arsenic									
4. Barium									
5. Beryllium									
6. Cadmium									
7. Calcium									
8. Chromium									
9. Cobalt									
10. Copper									
11. Iron									
12. Lead				754	804	107	748	99.2	F
13. Magnesium									
14. Manganese									
15. Mercury									
16. Nickel									
17. Potassium									
18. Selenium									
19. Silver									
20. Sodium									
21. Thallium									
22. Tin									
23. Vanadium									
24. Zinc									
Other:									
Cyanide									

(1) Initial Calibration Source See Attachment II-E (2) Continuing Calibration Source See Attachment II-E

(3) Control Limits: Mercury and Tin 80-120; All Other Compounds 90-110

(4) Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace

ATTACHMENT II-E

METAL	SOURCE	PREPARATION REF	TRUE VALUE ug/liter (1)
CADMIUM	US EPA DMR-QA 004 CONC 2	30-85-30	246
CHROMIUM	US EPA DMR-QA 004 CONC 2	30-85-30	571
LEAD	US EPA DMR-QA 004 CONC 2	30-85-30	754
ZINC	US EPA DMR-QA 004 CONC 2	30-85-30	991

(1) The EPA True Values for these standards are based on a 10ml/1000ml dilution of the concentrate. In order to bring the true value into the working range of some of the elements, more dilute solutions were prepared. The dilutions used for analyses are footnoted on Form II.

Form III -A

Q. C. Report No. _____

BLANKS

LAB NAME NUS Corporation CASE NO. New Bedford

DATE December 6, 1985 UNITS ug/liter

Matrix Water

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. Aluminum							
2. Antimony							
3. Arsenic							
4. Barium							
5. Beryllium							
6. Cadmium	< 4	< 4	< 4	< 4		< 4	
7. Calcium							
8. Chromium	< 10	< 10	< 10	< 10		< 10	
9. Cobalt							
10. Copper							
11. Iron							
12. Lead	< 1	< 1	< 1	< 1	< 1	< 1	
13. Magnesium							
14. Manganese							
15. Mercury							
16. Nickel							
17. Potassium							
18. Selenium							
19. Silver							
20. Sodium							
21. Thallium							
22. Tin							
23. Vanadium							
24. Zinc	< 10	< 10	< 10	< 10		< 10	
Other:							
Cyanide							

Form III -B

Q. C. Report No. _____

BLANKS

LAB NAME NUS Corporation CASE NO. New Bedford

DATE December 6, 1985 UNITS ug/liter

Matrix Water

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. Aluminum							
2. Antimony							
3. Arsenic							
4. Barium							
5. Beryllium							
6. Cadmium							
7. Calcium							
8. Chromium							
9. Cobalt							
10. Copper							
11. Iron							
12. Lead		< 1	< 1	< 1	< 1		
13. Magnesium							
14. Manganese							
15. Mercury							
16. Nickel							
17. Potassium							
18. Selenium							
19. Silver							
20. Sodium							
21. Thallium							
22. Tin							
23. Vanadium							
24. Zinc							
Other:							
Cyanide							

Form IV

Q. C. Report No. _____

ICP INTERFERENCE CHECK SAMPLE

LAB NAME NUS Corporation

DATE December 6, 1985

CASE NO. New Bedford

Check Sample I.D. N/A

Check Sample Source N/A

Units N/A

Compound	Control Limits (1) Mean	Control Limits (1) Std. Dev.	True (2)	Initial Observed	Initial %R	Final Observed	Final %R
Metals:							
1. Aluminum							
2. Antimony							
3. Arsenic							
4. Barium							
5. Beryllium							
6. Cadmium							
7. Calcium							
8. Chromium							
9. Cobalt							
10. Copper							
11. Iron							
12. Lead							
13. Magnesium							
14. Manganese							
15. Mercury							
16. Nickel							
17. Potassium							
18. Selenium							
19. Silver							
20. Sodium							
21. Thallium							
22. Tin							
23. Vanadium							
24. Zinc							
Other:							

(1) Mean value based on n = _____.

(2) True value of EPA ICP Interference Check Sample or contractor standard.

Form V -A

Q. C. Report No. _____

SPIKE SAMPLE RECOVERY

LAB NAME NUS Corporation

DATE December 6, 1985

CASE NO. New Bedford
EPA Sample No. Filter #11
Lab Sample ID No. 15091471
Units ug/liter

Matrix Water

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R(1)
Metals:					
1. Aluminum	75-125				
2. Antimony	"				
3. Arsenic	"				
4. Barium	"				
5. Beryllium	"				
6. Cadmium	"	110	5 U	100	110
7. Calcium	"				
8. Chromium	"	220	40	200	90.0
9. Cobalt	"				
10. Copper	"				
11. Iron	"				
12. Lead	"				
13. Magnesium	"				
14. Manganese	"				
15. Mercury	"				
16. Nickel	"				
17. Potassium	"				
18. Selenium	"				
19. Silver	"				
20. Sodium	"				
21. Thallium	"				
22. Tin	"				
23. Vanadium	"				
24. Zinc	"	95000 (2)	51000 (2)	50000 (2)	88.0
Other:					
Cyanide	"				

(1) %R = [(SSR - SR)/SA] x 100

"R" - out of control

Comments: (2) A 5ml/50ml X 5ml/50ml dilution was used for analyses.

Form V -B

Q. C. Report No. _____

SPIKE SAMPLE RECOVERY

LAB NAME NUS Corporation

DATE December 6, 1985

CASE NO. New Bedford
EPA Sample No. Filter #1
Lab Sample ID No. 15091461
Units ug/liter

Matrix Water

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R(1)
Metals:					
1. Aluminum	75-125				
2. Antimony	"				
3. Arsenic	"				
4. Barium	"				
5. Beryllium	"				
6. Cadmium	"				
7. Calcium	"				
8. Chromium	"				
9. Cobalt	"				
10. Copper	"				
11. Iron	"				
12. Lead	"	313 (2)	126 (2)	200 (2)	93.5
13. Magnesium	"				
14. Manganese	"				
15. Mercury	"				
16. Nickel	"				
17. Potassium	"				
18. Selenium	"				
19. Silver	"				
20. Sodium	"				
21. Thallium	"				
22. Tin	"				
23. Vanadium	"				
24. Zinc	"				
Other:					
Cyanide	"				

(1) %R = [(SSR - SR)/SA] x 100

"R"- out of control

Comments: (2) A 5ml/50ml dilution was used for analyses.

Form VI -A

Q. C. Report No. _____

DUPLICATES

LAB NAME NUS Corporation

DATE December 6, 1985

CASE NO. New Bedford
EPA Sample No. Filter #11
Lab Sample ID No. 15091471
Units ug/liter

Matrix Water

Compound	Control Limit(1)	Sample(S)	Duplicate(D)	RPD(2)
Metals:				
1. Aluminum				
2. Antimony				
3. Arsenic				
4. Barium				
5. Beryllium				
6. Cadmium		5 U	5 U	NC
7. Calcium				
8. Chromium		40	40	0
9. Cobalt				
10. Copper				
11. Iron				
12. Lead				
13. Magnesium				
14. Manganese				
15. Mercury				
16. Nickel				
17. Potassium				
18. Selenium				
19. Silver				
20. Sodium				
21. Thallium				
22. Tin				
23. Vanadium				
24. Zinc		51000(3)	52000(3)	1.94
Other:				
Cyanide				

* Out of Control

(1) To be added at a later date.

(2) RPD = [|S - D|/((S + D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

(3) A 5ml/50ml X 5mT/50ml dilution was used for analyses.

Form VI -B

Q. C. Report No. _____

DUPLICATES

LAB NAME NUS Corporation

DATE December 6, 1985

CASE NO. New Bedford
EPA Sample No. Filter #1
Lab Sample ID No. 15091461
Units ug/liter

Matrix Water

Compound	Control Limit (1)	Sample(S)	Duplicate(D)	RPD (2)
Metals:				
1. Aluminum				
2. Antimony				
3. Arsenic				
4. Barium				
5. Beryllium				
6. Cadmium				
7. Calcium				
8. Chromium				
9. Cobalt				
10. Copper				
11. Iron				
12. Lead		126 (3)	128 (3)	1.57
13. Magnesium				
14. Manganese				
15. Mercury				
16. Nickel				
17. Potassium				
18. Selenium				
19. Silver				
20. Sodium				
21. Thallium				
22. Tin				
23. Vanadium				
24. Zinc				
Other:				
Cyanide				

* Out of Control

(1) To be added at a later date.

(2) RPD = [|S - D|/((S + D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

(3) A 5ml/50ml dilution was used for analyses.

Form VII

Q.C. Report No. _____

INSTRUMENT DETECTION LIMITS AND

LABORATORY CONTROL SAMPLE

LAB NAME NUS Corporation

DATE December 6, 1985

CASE NO. New Bedford

LCS UNITS ug/L mg/kg

(Circle One)

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l		Lab Control Sample		
		ICP/AA	Furnace	True	Found	%R
Metals:						
1. Aluminum	200					
2. Antimony	60					
3. Arsenic	10					
4. Barium	200					
5. Beryllium	5					
6. Cadmium	5	4		246	242	98.4
7. Calcium	5000					
8. Chromium	10	10		571	560	98.1
9. Cobalt	50					
10. Copper	25					
11. Iron	100					
12. Lead	5		1	754	790	105
13. Magnesium	5000					
14. Manganese	15					
15. Mercury	0.2					
16. Nickel	40					
17. Potassium	5000					
18. Selenium	5					
19. Silver	10					
20. Sodium	5000					
21. Thallium	10					
22. Tin	40					
23. Vanadium	50					
24. Zinc	20	10		991	980	98.9
Other:						
Cyanide	10					

Form VIII

Q.C. Report No. _____

STANDARD ADDITION RESULTS

LAB NAME NUS Corporation CASE NO. New Bedford

DATE December 6, 1985 UNITS ug/liter

Sample #	Element	0 ADD ABS.	1 ADD CON./ABS.(1)	2 ADD CON./ABS.(1)	3 ADD CON./ABS.(1)	FINAL CON.(2)(6)	r(*)
15091461	Pb	12.9	7.5/20.7(4)	15/27.5	22.5/30.5	175.6	.9831 (+)
15091463	Pb	13.3	7.5/19.3(4)	15/26.0	22.5/31.6	162.0	.9995
15091466	Pb	11.9	7.5/17.0(4)	15/24.0	22.5/29.4	146.8	.9997
15091468	Pb	14.8	7.5/20.6(4)	15/25.8	22.5/30.9	210.2	.9995
15091470	Pb	21.4	10/28.2(5)	20/38.1	30/47.3	116.0	.9976
15091474	Pb	27.5	10/35.9(5)	20/45.8	30/55.9	142.0	.9991
15091475	Pb	14.8	7.5/17.2	15/24.0	22.5/33.3	78.1	.9700 (+)

(1) CON is the concentration added, ABS. is the instrument readout in absorbance or concentration.

(2) Concentration as determined by MSA

(*) "r" is the correlation coefficient.

+ - correlation coefficient is outside of control window of 0.995.

(3) ABS is reported in concentration (ug/liter)

(4) Instrument readout was obtained on a dilution of 5ml/50ml.

(5) Instrument readout was obtained on a diltuion of 10ml/50ml.

(6) Final concentration is in ug/liter

Form IX (Quarterly)
Instrument Detection Limits

Laboratory Name NUS Corporation ICP/Flame AA (Circle One) Model Number PE603

Date December 6, 1985 Furnace AA Number PE2380

Element	Wavelength (nm)	CRDL (µg/L)	IDL (µg/L)	Element	Wavelength (nm)	CRDL (µg/L)	IDL (µg/L)
1. Aluminum		200		13. Magnesium		5000	
2. Antimony		60		14. Manganese		15	
3. Arsenic		10		15. Mercury		0.2	
4. Barium		200		16. Nickel		40	
5. Beryllium		5		17. Potassium		5000	
6. Cadmium	228.8	5	4 P	18. Selenium		5	
7. Calcium		5000		19. Silver		10	
8. Chromium	357.9	10	10 P	20. Sodium		5000	
9. Cobalt		50		21. Thallium		10	
10. Copper		25		22. Tin		40	
11. Iron		100		23. Vanadium		50	
12. Lead	283.3 B	5	1 F	24. Zinc	213.9	20	10P

Footnotes:

- Indicate the instrument for which the IDL applies with a P (for ICP/Flame AA) or a F (for Furnace AA) behind the IDL value.
- Indicate elements commonly run with background correction (AA) with a B behind the analytical wavelength.
- If more than one ICP/Flame or Furnace AA is used, submit separate Forms IX-XI for each instrument.

Comments:

Lab Manager Kathy Del Signore /gmm

PREPARATION OF STANDARDS AND SAMPLES

TITLE

PROJECT NO. New Bedford

30

E A Motion 11-7-85

BOOK NO. 30-85

DUPLICATE

Prepared standards for use with New Bedford high-volume filters.

This standard will be used for Calibration Verification and Laboratory Control samples.

EPA Reference Sample DMP QA 004 Conc. 2

10.0 ml solution + 1.0 ml conc. HNO_3 / 550 ml.

Laboratory Control Sample was digested ref: Federal Register Vol. 43, No. 194 - Thursday October 5, 1978.

Reagent: Conc. HNO_3 Fisher Reagent ACS Lot 853409

SCIENTIFIC BINDERY PRODUCTS CHICAGO 60605

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

PERFORMANCE EVALUATION REPORT DATE: 06/15/84

DMR-QA STUDY NUMBER 004

PERMITTEE:

PARAMETERS	V P	REPORT VALUE	TRUE VALUE*	ACCEPTANCE LIMITS	WARNING LIMITS	PERFORMANCE EVALUATION
TRACE METALS IN MICROGRAMS PER LITER:						
ALUMINUM			1310	1010.-1610.	1090.-1530.	
ARSENIC			175	120.- 227.	134.- 213.	
BERYLLIUM			371	311.- 433.	327.- 417.	
CADMIUM			246	187.- 281.	199.- 269.	
CHROMIUM			571	407.- 709.	446.- 670.	
COBALT			315	256.- 365.	271.- 350.	
COPPER			429	368.- 485.	383.- 470.	
IRON			511	421.- 593.	444.- 570.	
LEAD			754	594.- 903.	634.- 863.	
MANGANESE			461	398.- 516.	413.- 500.	
MERCURY			20.1	13.3- 27.4	15.2- 25.6	
NICKEL			711	591.- 823.	621.- 793.	

* BASED UPON THEORETICAL CALCULATIONS, OR A REFERENCE VALUE WHEN NECESSARY.

CONCENTRATE 2

PERFORMANCE EVALUATION REPORT DATE: 06/15/84

DMR-QA STUDY NUMBER 004

PERMITTEE:

PARAMETERS	V P	REPORT VALUE	TRUE VALUE*	ACCEPTANCE LIMITS	WARNING LIMITS	PERFORMANCE EVALUATION
TRACE METALS IN MICROGRAMS PER LITER:						
SELENIUM			102	48.9- 140.	61.0- 127.	
VANADIUM			1020	807.-1280.	875.-1210.	
ZINC			991	848.-1130.	884.-1090.	
MISCELLANEOUS PARAMETERS:						
PH-UNITS			4.80	4.68- 4.91	4.71- 4.88	
TOTAL SUSPENDED SOLIDS (IN MG/L)			84.1	65.3- 87.1	68.0- 84.3	
OIL AND GREASE (IN MG/L)			7.50	.615- 12.3	2.12- 10.8	
NUTRIENTS IN MILLIGRAMS PER LITER:						
AMMONIA-NITROGEN			1.20	1.02- 1.43	1.07- 1.38	
NITRATE-NITROGEN			1.90	1.60- 2.14	1.67- 2.07	
KJELDAHL-NITROGEN			5.81	4.50- 7.16	4.84- 6.82	
TOTAL PHOSPHORUS			9.35	8.62- 10.6	8.87- 10.4	

* BASED UPON THEORETICAL CALCULATIONS, OR A REFERENCE VALUE WHEN NECESSARY.

CONCENTRATE 2

Hi Vol Filter Wts. 8-13-85 CJ

Date	Filter #	initial wt. gms (a)	initial wt. plus sample, gms	sample wt gms	int. wt plus sample, gms (b)	sample wt gms (c)
8/13/85 CJ	1	2.8330	2.8599	0.0269		
	2	2.8646	2.8820	0.0174		
	3	2.8505	2.8848	0.0343		
	4	2.8938	2.9320	0.0382	2.9332	0.0012
	5	2.8721	2.9036	0.0315		
	6	2.8608	2.8786	0.0178		
	7	2.8738	2.8933	0.0195		
	8	2.8945	2.9249	0.0304		
	9	2.8975	2.9393	0.0418		
	10	2.9053	2.9214	0.0161		
	11	2.9339	3.0628	0.1289		
	12	2.9210	2.9243	0.0033	2.9256	0.0013
	13	2.9152	2.9334	0.0182		
	14	2.9164	2.9325	0.0161		
	15	2.8495	—			
	16	2.8704	2.8874	0.0170		
	17	2.8960	2.9454	0.0494		
	18	2.8968	2.9171	0.0203		
	19	3.3893	3.4022	0.0129		
	20	3.4050	3.4220	0.0170	3.4221	0.0001
	21	2.9104	2.9121	0.0017		
	22	2.8821	2.9076	0.0255		
8/14/85 QC check	5	2.8721			2.8721	0.0000
	12	2.9210			2.9209	-0.0000
	19	3.3893			3.3894	0.0001
	20	3.4050			3.4049	-0.0001

a) weighing made after 24 hr. dessication period

b) weighing made after additional 24 hr dessication period

c) should be ± 0.0050 gms of initial sample wt.

Appendix E

Laboratory PCB Analysis Reports and Quality Control Forms

CASE NARRATIVE

NEW BEDFORD PUF'S

CASE NO. 1

NUS NO.	SAMPLE NO.
15091739	08-01
15091740	08-02
15091741	08-03
15091742	08-05
15091743	08-14
15091744	08-06
15091745	08-08
15091746	08-13
15091747	08-16
15091748	08-24
15091749	08-21
15091750	08-22
15091751	08-23
15091786	08-09
15091787	08-11
15091814	Filter - 06F
15091815	Filter - 08F
15091816	Filter - 13F
15091817	Filter - 16F

David P. Hamm

CASE COMMENTS

NEW BEDFORD PUF'S

CASE NO. 1

1. Sample 08-09 contains no dibutylchlorendate (DBC) surrogate. Apparently it was not added during the sample preparation step.

CASE NARRATIVE

NEW BEDFORD PUF'S

CASE NO. 2

NUS NO.	SAMPLE NO.
15090507	08-07
15090508	08-10
15090509	08-12
15090510	08-15
15090511	08-17
15090512	08-18
15091513	08-19
15091514	08-20
15091752	08-25
15091753	08-27
15091754	08-30
15091755	08-31
15091756	08-32
15091757	08-33
15091758	08-34
15091759	08-35
15091760	08-36
15091761	08-37
15091762	08-38
15091763	09-39
15091764	08-40
15091765	08-41
15091766	08-42
15091767	08-43
15091768	08-45
15091769	08-46
15091771	08-48
15091772	08-50
15091773	08-51
15091774	08-82
15091775	08-86
15091776	08-88
15091777	08-89
15091778	08-90
15091779	08-91
15091780	08-92
15091781	08-93
15091782	08-94
15091783	08-95
15091784	08-96
15091863	08-123

CASE COMMENTS

NEW BEDFORD PUF'S

1. Many of the PCB patterns were distorted making identification and quantitation difficult. In particular, PCB's for samples 08-04 and 08-19 were reported as below the detection limits because the confirmation column indicated that no PCB's were present. Analysis of these samples on the primary column indicated the presence of PCB's.

2. Sample 08-123 is a method blank which was found to contain PCB's. The source of the PCB's found is suspected to be lab contamination.

3. Sample 08-47 was lost in a lab accident during sample preparation and therefore, could not be analyzed.

4. Samples 08-38, 08-39 and 08-40 had a DBC shift greater than two percent on 11/06/85. The capillary column runs of these samples indicated the presence of an interferent which was not present in the analyses before or after these samples. This indicated that the interferent coeluted with the DBC causing the retention time to shift.

5. The extracts for nine samples were held for more than 40 days (approximately 60 days) before analysis. This applied to samples 08-04, 08-07, 08-10, 08-12, 08-15 and 08-17 through 08-20. All extracts were stored according to protocol to minimize sample degradation.

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-01

15091739

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/15/85

Date Analyzed: 10/17/85

Conc/Dil Factor: 10

CAS Number		ug/l or ug/Kg (Circle One) PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	2.3
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

V_i = Volume of extract injected (ul)

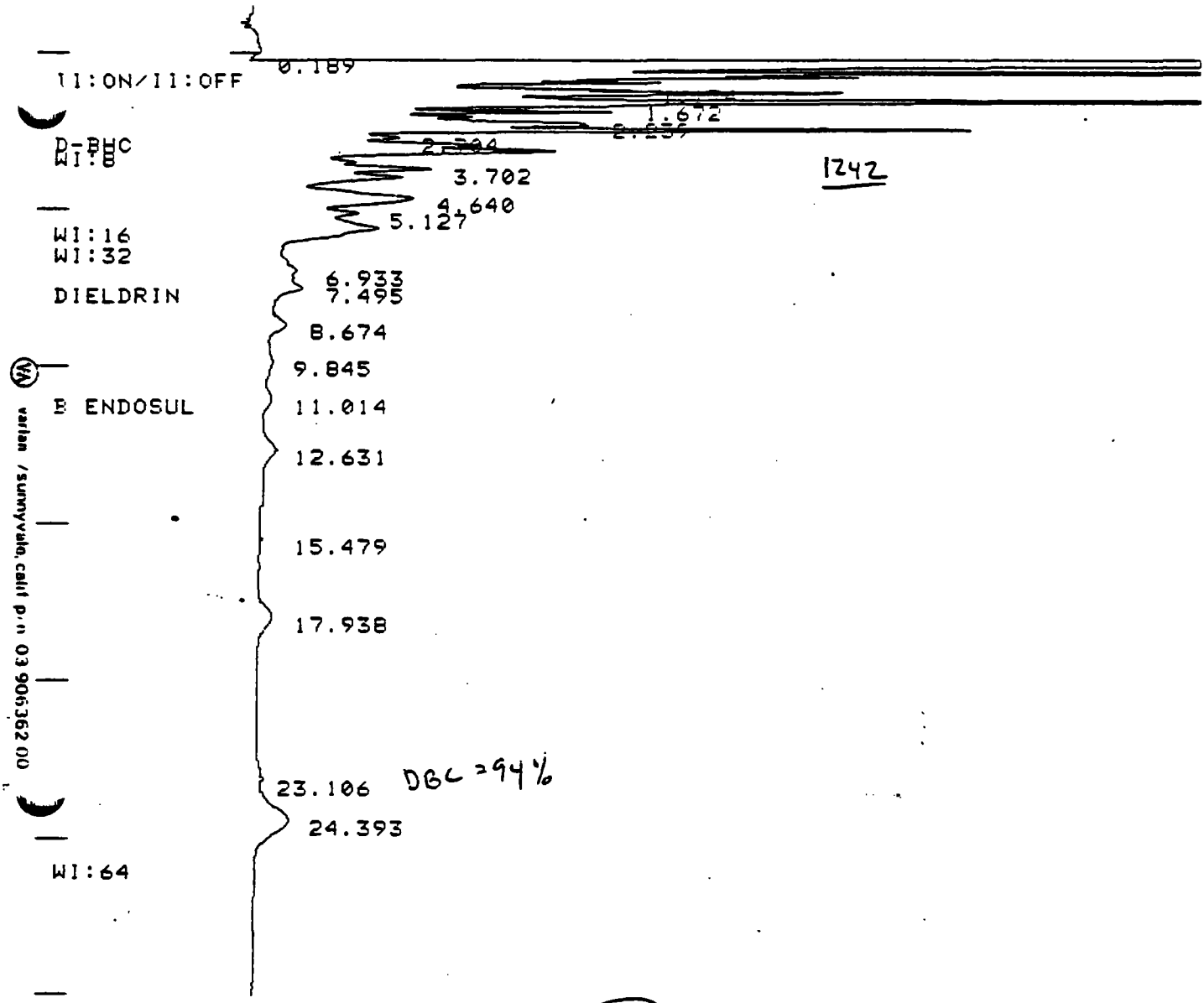
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100µl/1ml

1242=

TITLE: RUN # 12 08-01 22:42 17 OCT 85

CHANNEL NO: 2 SAMPLE: 15091739 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		131115	VB		5.80
2		0.0000	0.648		37862	BV		2.40
3		0.0000	0.729		2846	VV	?	0.30
4		0.0000	0.787		4604	VV	?	1.20
5		0.0000	0.866		1404	VV		1.60
6		0.0000	0.950		2560	VV		2.30
7		0.0000	1.174		2767	VV	?	4.00
8		0.0000	1.279		6073	VV		6.40
9		0.0000	1.447		2216	VV	?	5.70
10	A-B-C	0.0094	1.545	0.005	12645	VV	?	4.50
11		0.0000	1.577		12319	VV	?	4.50
12		0.0000	1.672		3104	VV	?	4.55

varian /sunnyvale, calif p.n 03 906362 00

100 µl/1 ml

1242: 2.06 Ht. x 0.1099 µg/ml Ht x 1 ml x 10 = 2.3 µg

08-01

TITLE: RUN # 12 22:42 17 OCT 85

CHANNEL NO: 2 SAMPLE: 15091739 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		131115	VB		5.80
2		0.0000	0.648		37862	BV		2.40
3		0.0000	0.729		2846	VV	?	0.30
4		0.0000	0.787		4604	VV	?	1.20
5		0.0000	0.866		1404	VV		1.60
6		0.0000	0.950		2560	VV		2.30
7		0.0000	1.174		2767	VV	?	4.00
8		0.0000	1.279		6073	VV		6.40
9		0.0000	1.447		2216	VV	?	5.70
10	A-BHC	0.0094	1.545	0.005	12645	VV	?	4.50
11		0.0000	1.577		12319	VV	?	4.50
12		0.0000	1.672		5104	VV	?	4.55
13		0.0000	1.873		3095	VV		4.05
14	G-BHC	0.0012	2.022	0.042	1098	VV		4.60
15		0.0000	2.239		2999	VV	?	7.00
16	B-BHC	0.0097	2.308	-0.022	3103	VV	?	3.80
17		0.0000	2.459		9043	VV	?	3.25
18	D-BHC	0.0009	2.704	-0.016	542	VV	?	6.60
19	ALDRIN	0.0031	2.931	-0.059	1913	VV	?	7.30
20		0.0000	3.133		3233	VV		9.60
21		0.0000	~~3.495~~	H= 2.06	~~417~~	VV	?	6.90
22	X	0.0000	3.702		X 1647	VV		9.00
23		0.0000	3.970		1318	VV		10.40
24		0.0000	4.640		1683	VV	?	22.00
25		0.0000	5.127		960	VV	?	12.60
26		0.0000	5.605		1331	VB	?	30.00
27		0.0000	6.933		270	BV	?	26.60
28	DIELDRIN	0.0018	7.495	0.095	400	VV	?	28.90
29	ENDRIN	0.0013	8.674	-0.356	233	VV		21.15
30	B ENDOSUL	0.0009	11.014	-0.166	121	VB		27.15
31		0.0000	12.631		214	BB		32.90
32	ENDO SUL	0.0032	17.938	-0.642	205	BB		40.35
33	DBC	0.0094	24.393	-1.137	494	VB		56.15
TOTALS:		0.0409		-2.256	253834			

38

DETECTED PKS: 38 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 72

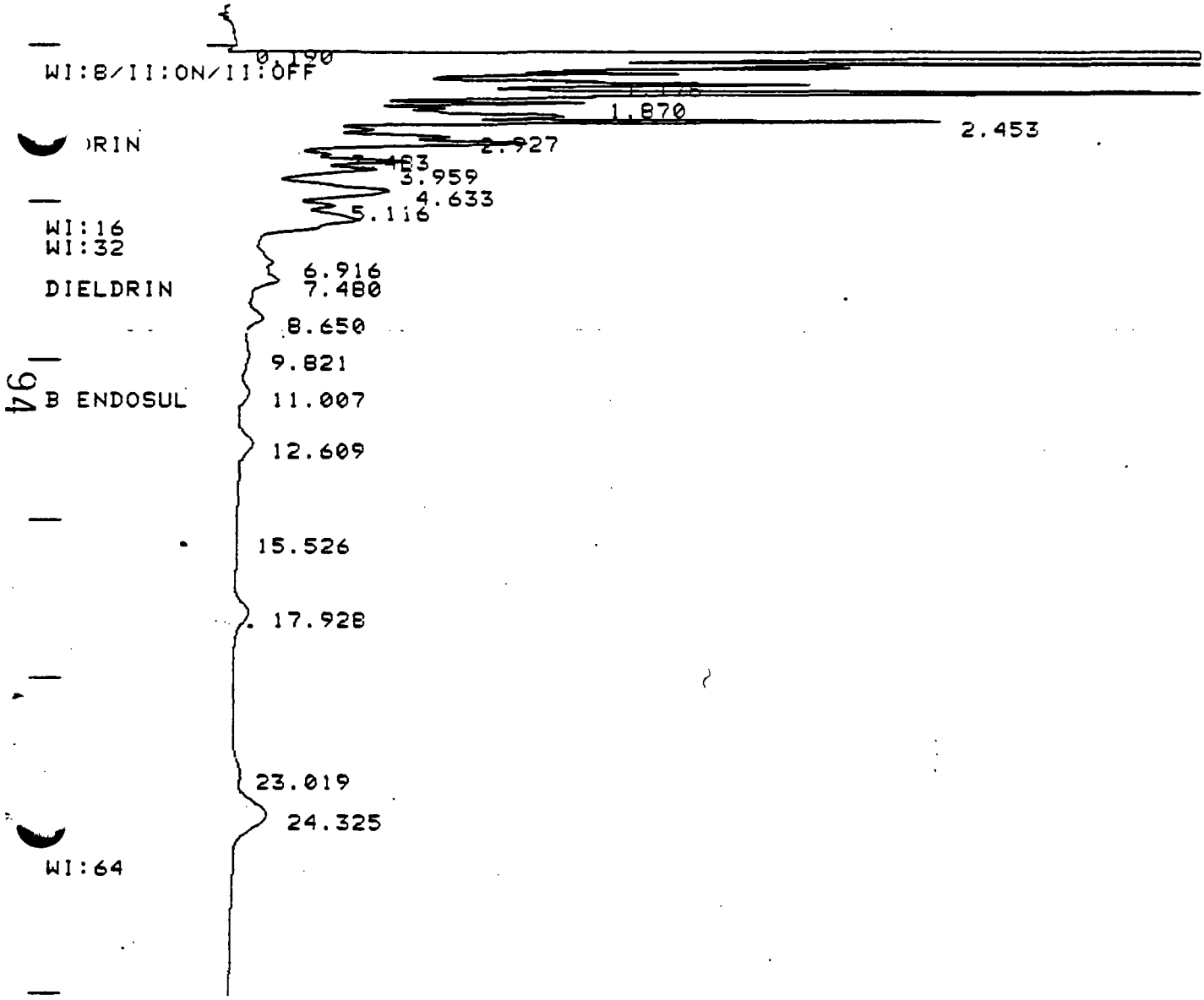
RACK: 1 VIAL: 12 INJ: 1

SAVED FILE: P1919

.ES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale,calif p/n 6 06362 00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/10

08-01

TITLE: RUN # 12 15:52 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~09~~ to 04 1739 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.290		125441	VB		6.00
2		0.0000	0.648		38815	BV		2.35
3		0.0000	0.785		4605	VV		2.30
4		0.0000	0.864		1449	VV		1.60
5		0.0000	0.949		3093	VB		2.30
6		0.0000	1.178		2570	BV	?	4.30
7		0.0000	1.279		5859	VV		6.35
8		0.0000	1.445		2117	VV	?	4.60
9	A-BHC	0.0091	1.551	0.011	12318	VV		6.70
10		0.0000	1.870		3001	VV		4.05
11	G-BHC	0.0011	2.021	0.041	1015	VV		5.15
12		0.0000	2.139		1111	VV	?	6.30
13		0.0000	2.251		2950	VV	?	8.20
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

varian / sunnyvale, calif p.n. 03 906367 00

1/10

08-01

TITLE: RUN # 12 15:52 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~6~~91739 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.290		125441	VB		6.00
2		0.0000	0.648		38815	BV		2.35
3		0.0000	0.785		4605	VV		2.30
4		0.0000	0.864		1449	VV		1.60
5		0.0000	0.949		3093	VB		2.30
6		0.0000	1.178		2570	BV	?	4.30
7		0.0000	1.279		5859	VV		6.35
8		0.0000	1.445		2117	VV	?	4.60
9	A-BHC	0.0091	1.551	0.011	12318	VV		6.70
10		0.0000	1.870		3001	VV		4.05
11	G-BHC	0.0011	2.021	0.041	1015	VV		5.15
12		0.0000	2.139		1111	VV	?	6.30
13		0.0000	2.251		2950	VV	?	8.20
14	B-BHC	0.0096	2.297	-0.033	3080	VV	?	2.90
15		0.0000	2.453		8881	VV	?	3.25
16	D-BHC	0.0009	2.697	-0.023	550	VV		6.70
17	ALDRIN	0.0031	2.927	-0.063	1871	VV	?	8.40
18		0.0000	3.124		3160	VV		9.65
19		0.0000	3.483		425	VV	?	6.80
20		0.0000	3.692		1646	VV		9.10
21		0.0000	3.959		1294	VV		10.50
22		0.0000	4.633		1654	VV	?	21.60
23		0.0000	5.116		941	VV	?	12.40
24		0.0000	5.578		1353	VB	?	28.60
25		0.0000	6.916		262	BV	?	24.70
26	DIELDRIN	0.0018	7.480	0.080	404	VV	?	27.85
27	ENDRIN	0.0013	8.650	-0.380	233	VV		21.35
28	B ENDOSUL	0.0009	11.007	-0.173	121	VB		27.85
29		0.0000	12.609		222	BB		32.50
30	ENDO SUL	0.0031	17.928	-0.652	196	BB		39.75
31		0.0000	23.019		105	BV	?	49.00
32	DBC	0.0096	24.325	-1.205	500	VB		56.05
TOTALS:		0.0405		2.377	231242			

DETECTED PKS: 35 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: -21

RACK: 1 VIAL: 12 INJ: 1

SAVED FILE: P1957

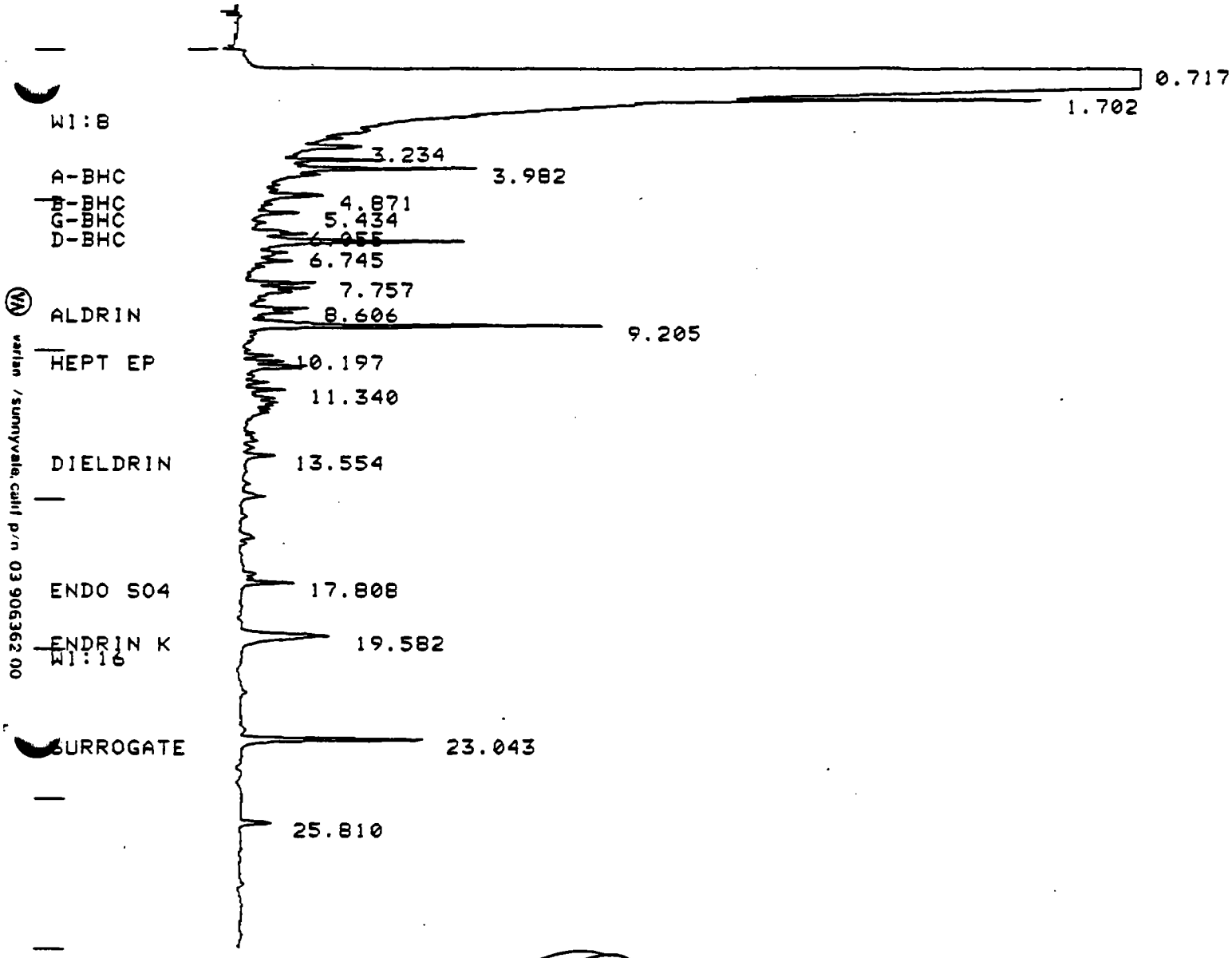
NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

95

Varian /Sunnyvale, Calif p/n 03-906362-00

CHART SPEED: 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN-TICK

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



100µl/1ml

08-01

TITLE: RUN# 8 23:05 22 OCT 85

CHANNEL NO: 1 SAMPLE: 15091739 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.717		2403310	0.08	BV		5.80
2		0.0000	1.147		651971	0.13	VV	?	49.90
3		0.0000	1.702		100686	0.20	VV	?	7.35
4		0.0000	1.783		53797	0.21	VV	?	
5		0.0000	1.947		24155	0.22	VB	?	
6		0.0000	3.234		15271	0.37	BV		7.30
7		0.0000	3.692		14075	0.43	VV		3.95
8		0.0000	3.982		35151	0.46	VV		3.80
9	A-BHC	0.0350	4.183	-0.087	10012	0.48	VB	?	4.85
10	B-BHC	0.1405	4.871	-0.109	14214	0.56	BB		6.85
11	G-BHC	0.0226	5.434	0.304	7930	0.63	BB		4.90

158

100µl/1ml

08-01

TITLE: RUN# 8 23:05 22 OCT 85

CHANNEL NO: 1 SAMPLE: 15091739 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.717		2403310	0.08	BV		5.80
2		0.0000	1.147		651971	0.13	VV	?	49.90
3		0.0000	1.702		100686	0.20	VV	?	7.35
4		0.0000	1.783		53797	0.21	VV	?	
5		0.0000	1.947		24155	0.22	VB	?	
6		0.0000	3.234		15271	0.37	BV		7.30
7		0.0000	3.692		14075	0.43	VV		3.95
8		0.0000	3.982		35151	0.46	VV		3.80
9	A-BHC	0.0350	4.183	-0.067	10012	0.48	VB	?	4.85
10	B-BHC	0.1405	4.871	-0.109	14214	0.56	BB		6.85
11	G-BHC	0.0286	5.434	0.304	7930	0.63	BB		4.80
12	D-BHC	0.0176	6.055	0.145	4716	0.70	BV	?	3.80
13		0.0000	6.140		8504	0.71	VV	?	5.00
14		0.0000	6.383		50536	0.74	VV		5.55
15		0.0000	6.745		7216	0.78	VV	?	3.80
16		0.0000	7.024		10396	0.81	VB	?	5.50
17	HEPT	0.0415	7.757	0.187	9612	0.89	BV		4.20
18		0.0000	7.928		7358	0.91	VV	?	4.20
19		0.0000	7.985		5567	0.92	VB	?	
20		0.0000	8.606		8489	0.99	BV		4.20
21	ALDRIN	0.0262	8.672	-0.248	8849	1.00	VV	?	
22		0.0000	9.205		69485	1.06	VB		4.60
23		0.0000	10.197		4247	1.18	BV		4.40
24		0.0000	10.390		6686	1.20	VV		5.90
25	HEPT EP	0.0496	10.555	-0.195	13139	1.22	VB		7.20
26		0.0000	11.340		4989	1.31	BB		4.30
27	DIELDRIN	0.0251	13.554	-0.166	6932	1.56	BB		6.25
28	ENDO SO4	0.0276	17.808	0.128	7644	2.05	BB		4.35
29	ENDRIN K	0.1084	19.582	-0.498	37923	2.26	BB		12.20
30	SURROGATE	0.1586	23.043	-0.527	40910	2.66	BB		6.25
31		0.0000	25.810		6853	2.98	BB		6.45
TOTALS:		0.6587		-1.046	3650620				

DETECTED PKS: 31 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -139

RACK: 1 VIAL: 8 INJ: 1

SAVED FILE: P654

N ES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270°C @3°C/MIN

158

varian sunnyvale, calif p n 03 906362 00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-02

15091740

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/15/85

Date Analyzed: 10/21/85

Conc/Dil Factor: 50

CAS Number		ug/l or ug/Kg PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 5.0
11104-28-2	Aroclor-1221	< 5.0
11141-16-5	Aroclor-1232	< 5.0
53469-21-9	Aroclor-1242	26
12672-29-6	Aroclor-1248	< 5.0
11097-69-1	Aroclor-1254	< 10.0
11096-82-5	Aroclor-1260	< 10.0

V_i = Volume of extract injected (ul)

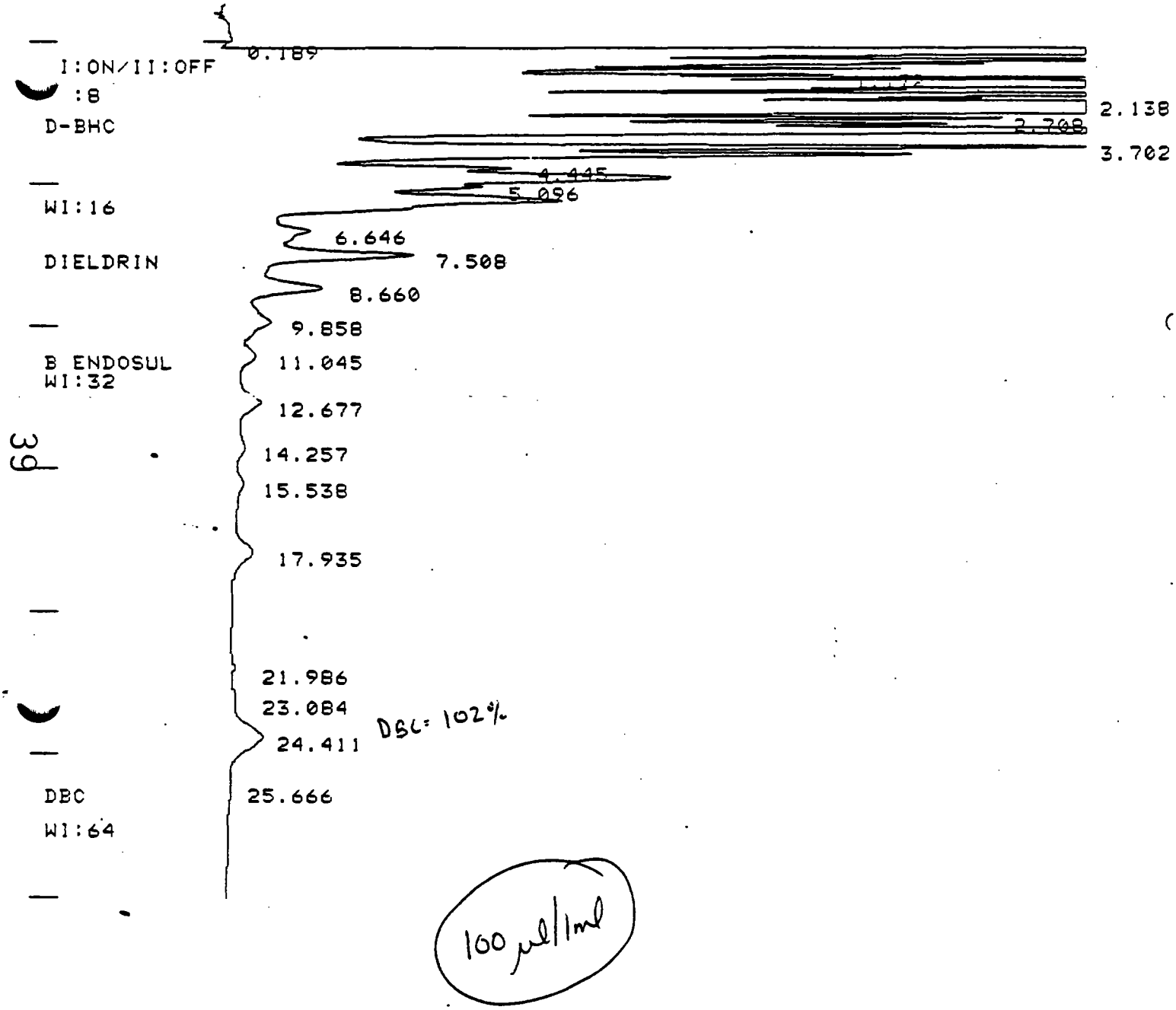
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



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08-02

TITLE: RUN # 13 23:15 17 OCT 85

CHANNEL NO: 2 SAMPLE: 15091740 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.290		129996	VB		5.95
2		0.0000	0.446		8092	BB		1.35
3		0.0000	0.648		58128	BV		2.50
4		0.0000	0.787		6319	VV	?	3.05
5		0.0000	0.859		2316	VV		1.55
6		0.0000	0.950		5782	VV		2.35
7		0.0000	1.172		5294	VV	?	3.20
8		0.0000	1.276		10597	VV		4.65
9		0.0000	1.447		38687	VV	?	6.25
10	--BHC	0.0120	1.590	0.050	16158	VV	?	8.25
11		0.0000	1.700		[illegible]	VV	?	5.70
12		0.0000	[illegible]		[illegible]	[illegible]		[illegible]

varian /sunnyvale, calif p n 03 906362 00

08-02

TLE: RUN # 13 23:15 17 OCT 85

CHANNEL NO: 2 SAMPLE: 15091740 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.290		129996	VB		5.95
2		0.0000	0.446		8092	BB		1.35
3		0.0000	0.648		58128	BV		2.50
4		0.0000	0.787		6319	VV	?	3.05
5		0.0000	0.859		2316	VV		1.55
6		0.0000	0.950		5782	VV		2.35
7		0.0000	1.172		5294	VV	?	3.20
8		0.0000	1.276		10597	VV		4.65
9		0.0000	1.447		38687	VV	?	6.25
10	A-BHC	0.0120	1.590	0.050	16158	VV	?	8.25
11		0.0000	1.700		7176	VV	?	5.70
12		0.0000	1.877		60447	VV		4.70
13	G-BHC	0.0093	2.008	0.028	8794	VV	?	3.40
14		0.0000	2.138		17359	VV	?	5.40
15	B-BHC	0.1496	2.331	0.001	47943	VV	?	6.20
16		0.0000	2.460		78723	VV	?	3.80
17	D-BHC	0.0167	2.708	-0.012	9947	VV		6.70
18	ALDRIN	0.0153	2.897	-0.093	9288	VV	?	6.50
19		0.0000	3.130		33659	VV		9.25
20		0.0000	3.702		12421	VV		9.35
21		0.0000	3.963		9534	VV		10.50
22		0.0000	4.445		3076	VV	?	10.10
23		0.0000	4.773		5899	VV	?	20.80
24		0.0000	5.096		2882	VV	?	18.20
25		0.0000	5.587		4463	VV		20.55
26		0.0000	6.646		620	VV		19.35
27	DIELDRIN	0.0109	7.508	0.108	2461	VV		17.25
28	ENDRIN	0.0064	8.660	-0.370	1114	VV		20.80
29		0.0000	9.858		378	VV		25.65
30	B ENDOSUL	0.0016	11.045	-0.135	211	VB		25.90
31		0.0000	12.677		342	BV		32.45
32		0.0000	14.257		136	VV		26.65
33	END ALD	0.0024	15.538	0.528	121	VB		34.10
34	ENDO SUL	0.0047	17.935	-0.645	303	BB		39.30
35	DBC	0.0102	24.411	-1.119	534	VV		56.45
TOTALS:		0.2391		-1.659	599200			

DETECTED PKS: 40 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 68

RACK: 1 VIAL: 13 INJ: 1

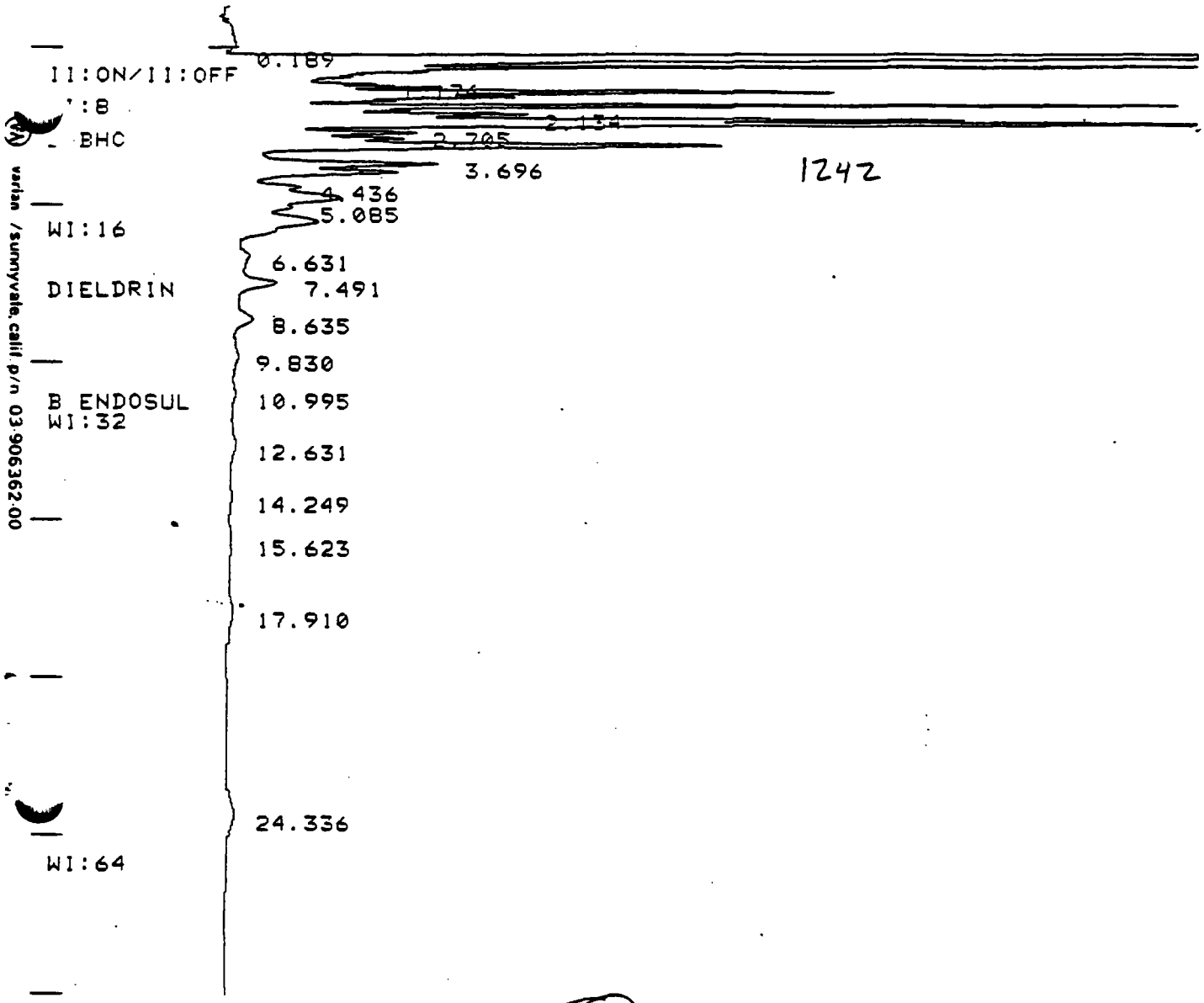
SAVED FILE: P1920

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED: 0.5 CM/MIN

/sunnyvale, calif p/n 03-906362 00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/50

TITLE: RUN # 13 08-02 16:25 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091740 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.287		106492	VB	4.90
2		0.0000	0.648		15633	BV	2.20
3		0.0000	0.784		530	T	1.35
4		0.0000	0.865		195	T	1.40
5		0.0000	0.949		331	T	2.10
6		0.0000	1.174		993	BV	3.90
7		0.0000	1.276		2029	VV	4.65
8		0.0000	1.446		8008	VV ?	6.10
9	A-BHC	0.0024	1.588	0.048	3231	VV ?	8.10
10		0.0000	1.700		1477	VV ?	5.45
11		0.2000	1.875		13388	VV	4.40
12	B-BHC	0.0015	2.007	0.017	1756	VV ?	3.20
13		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]

1/50

1242 = 4.39 Ht. x 0.1202 µg/mL Ht. x 1 mL x 50 = 26 µg

TITLE: RUN # 13 08-02 16:25 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091740 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.287		106492	VB		4.90
2		0.0000	0.648		15633	BV		2.20
3		0.0000	0.784		530	T		1.35
4		0.0000	0.865		195	T		1.40
5		0.0000	0.949		331	T		2.10
6		0.0000	1.174		993	BV		3.90
7		0.0000	1.276		2029	VV		4.65
8		0.0000	1.446		8008	VV	?	6.10
9	A-BHC	0.0024	1.588	0.048	3231	VV	?	8.10
10		0.0000	1.700		1477	VV	?	5.45
11		0.0000	1.875		13388	VV		4.40
12	G-BHC	0.0019	2.007	0.027	1799	VV	?	3.20
13		0.0000	2.134		3589	VV	?	5.30
14	B-BHC	0.0321	2.327	-0.003	10280	VV	?	5.80
15		0.0000	2.456		17852	VV	?	3.50
16	D-BHC	0.0035	2.705	-0.015	2099	VV		6.75
17	ALDRIN	0.0033	2.893	-0.097	1976	VV	?	6.50
18		0.0000	3.124		6841	VV		9.40
19		0.0000	3.696	H = 4.39	2686	VV		9.70
20		0.0000	3.955		2102	VV		10.95
1		0.0000	4.436		703	VV	?	10.00
2		0.0000	4.766		1349	VV	?	20.85
23		0.0000	5.085		653	VV	?	18.30
24		0.0000	5.558		1066	VB		21.25
25		0.0000	6.631		137	BV		18.90
26	DIELDRIN	0.0024	7.491	0.091	550	VB		17.20
27	ENDRIN	0.0014	8.635	-0.395	242	BB		20.50
28	DBC	0.0020	24.336	-1.194	104	BB		50.65
TOTALS:		0.0490		-1.538	206335			

DETECTED PKS: 35 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: -32

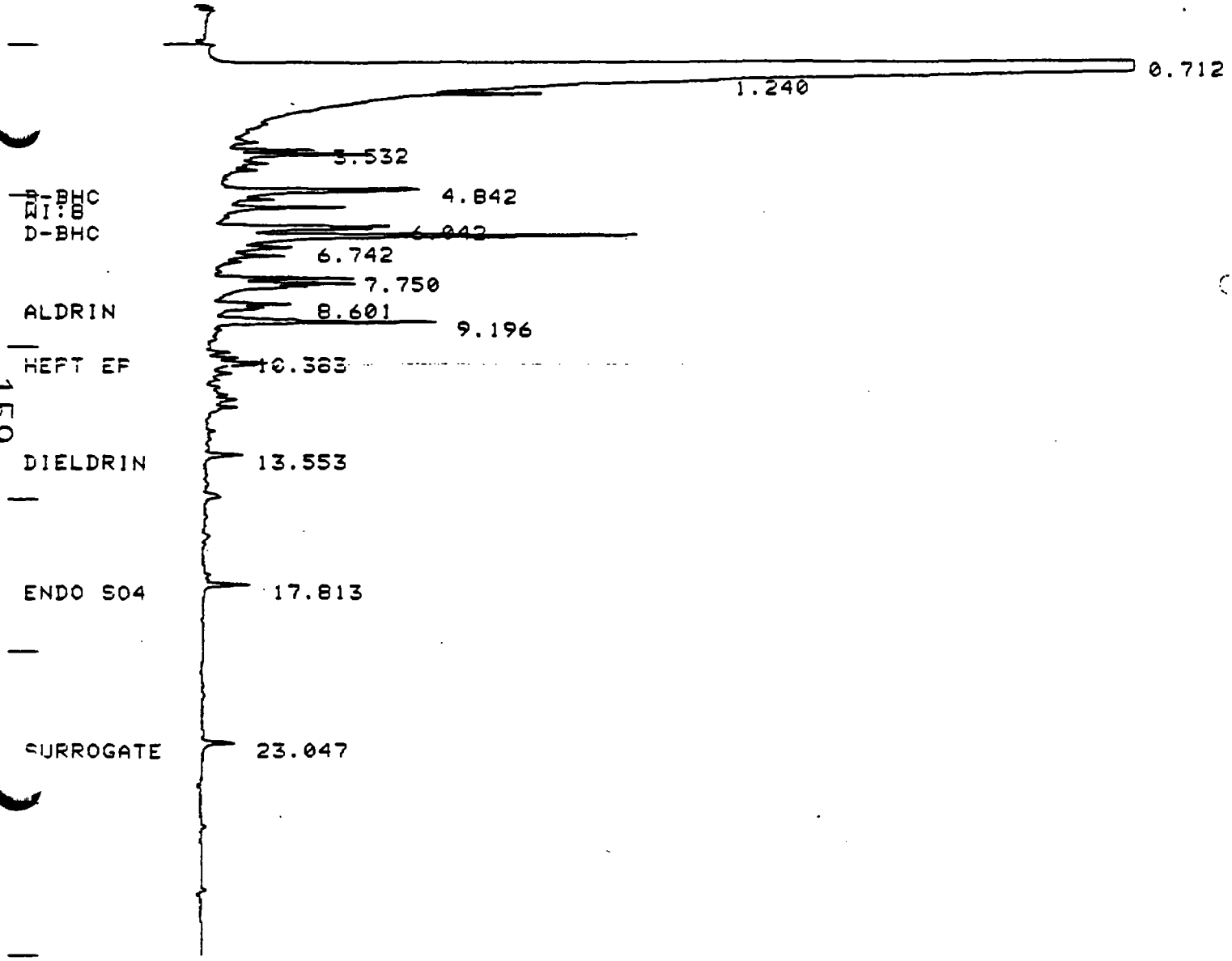
RACK: 1 VIAL: 13 INJ: 1

SAVED FILE: P1958

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



159

20ml/1ml

08-02

TITLE: RUN# 9 23:51 22 OCT 85

CHANNEL NO: 1 SAMPLE: 15091740 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE	W1/2 (SEC)
1		0.0000	0.712		1346720	0.08	BV	5.15
2		0.0000	1.240		69941	0.14	VB ?	
3		0.0000	1.693		12328	0.20	BB	3.10
4		0.0000	3.532		9663	0.41	BV	3.95
5		0.0000	3.670		17494	0.42	VB	4.35
6	B-BHC	0.4595	4.842	-0.138	46483	0.56	BB	7.55
7	G-BHC	0.0618	5.421	0.291	17142	0.63	BB	3.60
8	D-BHC	0.0839	6.042	0.132	22450	0.70	BV ?	3.90
9		0.0000	6.124		26503	0.71	VV ?	5.55
10		0.0000	6.361		103664	0.73	VV	6.00
11		0.0000	6.742		16401	0.78	VV ?	8.20
12		0.0000	7.010		9894	0.81	VB	5.05
13	HEPT	0.0511	7.750	0.130	31107	0.89	BV	4.30
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]

varian /sunnyvale,calif p/n 03 906362 00

20ml/1ml

08-02

TITLE: RUN# 9 23:51 22 OCT 85

CHANNEL NO: 1 SAMPLE: 15091740 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.712		1346720	0.08	BV		5.15
2		0.0000	1.240		69941	0.14	VB	?	
3		0.0000	1.693		12328	0.20	BB		3.10
4		0.0000	3.532		9663	0.41	BV		3.95
5		0.0000	3.670		17494	0.42	VB		4.35
6	B-BHC	0.4595	4.842	-0.138	46483	0.56	BB		7.55
7	G-BHC	0.0618	5.421	0.291	17142	0.63	BB		3.60
8	D-BHC	0.0839	6.042	0.132	22450	0.70	BV	?	3.90
9		0.0000	6.124		26503	0.71	VV	?	5.55
10		0.0000	6.361		103664	0.73	VV		6.00
11		0.0000	6.742		16401	0.78	VV	?	8.20
12		0.0000	7.010		9884	0.81	VB		5.05
13	HEPT	0.0911	7.750	0.180	21107	0.89	BV		4.30
14		0.0000	7.920		22960	0.91	VV		5.45
15		0.0000	8.019		22510	0.93	VB	?	8.05
16		0.0000	8.601		12050	0.99	BV		4.80
17	ALDRIN	0.0378	8.659	-0.261	12745	1.00	VV	?	17.30
18		0.0000	9.196		47782	1.06	VB		4.70
19		0.0000	10.383		3752	1.20	BV		4.15
20	HEPT EP	0.0515	10.561	-0.189	13634	1.22	VB		6.90
21	DIELDRIN	0.0292	13.553	-0.167	8056	1.57	BB		5.75
22	ENDO SO4	0.0273	17.813	0.133	7563	2.06	BB		4.75
23	SURROGATE	0.0288	23.047	-0.523	7427	2.66	BB	?	6.15
TOTALS:		0.8709		-0.542	1878260				

DETECTED PKS: 23 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -207

RACK: 1 VIAL: 9 INJ: 1

SAVED FILE: P655

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270°C @3°C/MIN

160

CHART SPEED: 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK

varian /sunnyvale, calif p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-03

15091741

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/15/85

Date Analyzed: 10/17/85

Conc/Dil Factor: 10

CAS Number		ug/l or ug/Kg PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	3.6
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

V_i = Volume of extract injected (ul)

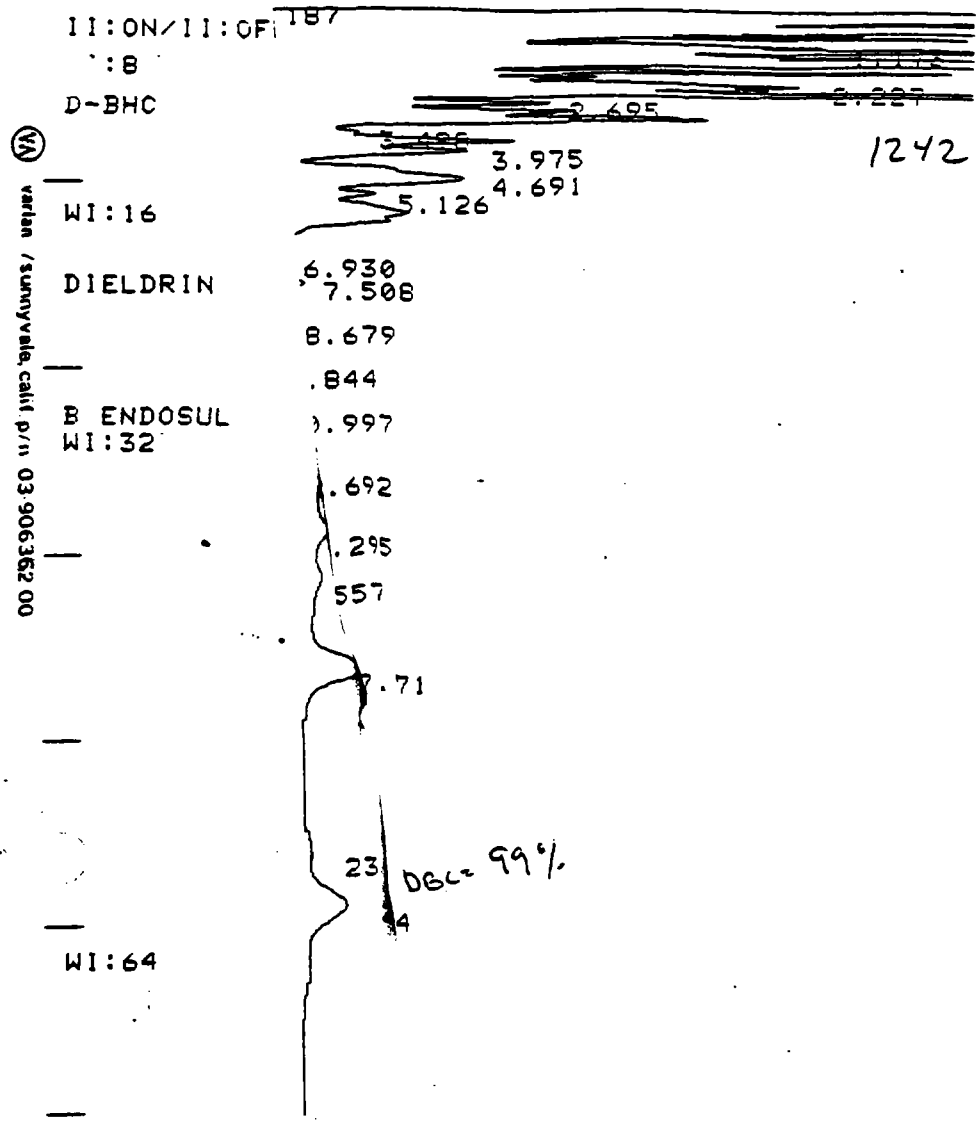
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED CM/MIN
ATTEN: 16 O: 10% 5 MIN/TICK



100µl/1ml

TITLE: RUN # 14 08-03 23:48 1

CHANNEL NO: 2 E: 15091741 METHOD: 2A P

PEAK NO.	PEAK NAME	T	TIME (MIN)	TIME OFFSET	HEIGH COUNT
1		0	0.288		12966
2		0	0.647		3970
3		0	0.706		548
4		0	0.777		866
5		0	0.862		299
6		0	0.950		490
7		0	1.173		3905
8		0	1.277		838
9		0	1.449		474
0		0	1.623		2744
1		0	1.877		626
[illegible]	G-B-C	0	2.026	0.04[illegible]	190

varian /sunnyvale, calif p/n 03-906362 00

100 µl/1 ml

1242 = ~~3.12~~ 3.08 Ht. x ~~.0120~~ .1174 µg/ml Ht. x 1 ml x 10 = ~~3.8~~ 3.6 µg

JM JM 08-03

TITLE: RUN # 14 23:48 17 OCT 85

CHANNEL NO: 2 SAMPLE: 15091741 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.288		129662	VB		5.85
2		0.0000	0.647		39704	BV		2.35
3		0.0000	0.706		5484	VV	?	
4		0.0000	0.777		8669	VV	?	3.85
5		0.0000	0.862		2999	VV		1.75
6		0.0000	0.950		4901	VB		2.25
7		0.0000	1.173		3905	BV	?	4.90
8		0.0000	1.277		8387	VV		6.90
9		0.0000	1.449		4747	VV	?	7.40
10		0.0000	1.623		27443	VV		7.75
11		0.0000	1.877		6261	VV		4.10
12	G-BHC	0.0020	2.026	0.046	1907	VV		4.30
13		0.0000	2.227		4709	VV	?	6.40
14	B-BHC	0.0138	2.317	-0.013	4421	VV	?	3.60
15		0.0000	2.462		13262	VV	?	3.15
16	D-BHC	0.0033	2.695	-0.025	1987	VV		6.40
17	ALDRIN	0.0042	2.917	-0.073	2569	VV	?	6.90
18		0.0000	3.136		4484	VV		9.10
19		0.0000	~~3.498~~	H= ~~3.12~~ JM	~~750~~	VV	?	6.60
20		0.0000	3.706	3.08	2441	VV		9.15
21		0.0000	3.975		1968	VV		11.00
22		0.0000	4.691		2174	VV	?	22.55
23		0.0000	5.126		1133	VV	?	14.40
24		0.0000	5.613		1660	VV	?	28.80
25	A ENDOSUL	0.0050	5.826	-0.134	1462	VV	?	5.70
26		0.0000	6.930		293	VV	?	30.00
27	DIELDRIN	0.0026	7.508	0.108	577	VV		18.35
28	ENDRIN	0.0016	8.679	-0.351	287	VB		20.70
29		0.0000	9.844		114	BV	?	38.60
30	B ENDOSUL	0.0010	10.997	-0.183	138	VB		26.15
31		0.0000	12.692		161	BV		37.10
32		0.0000	14.295		183	VV		30.85
33	END ALD	0.0023	15.557	0.547	116	VB		31.35
34	ENDO SUL	0.0126	17.971	-0.609	804	BB		41.90
35	DBC	0.0099	24.454	-1.076	516	VV		56.00
TOTALS:		0.0583		-1.763	289878			

DETECTED PKS: 38 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 70

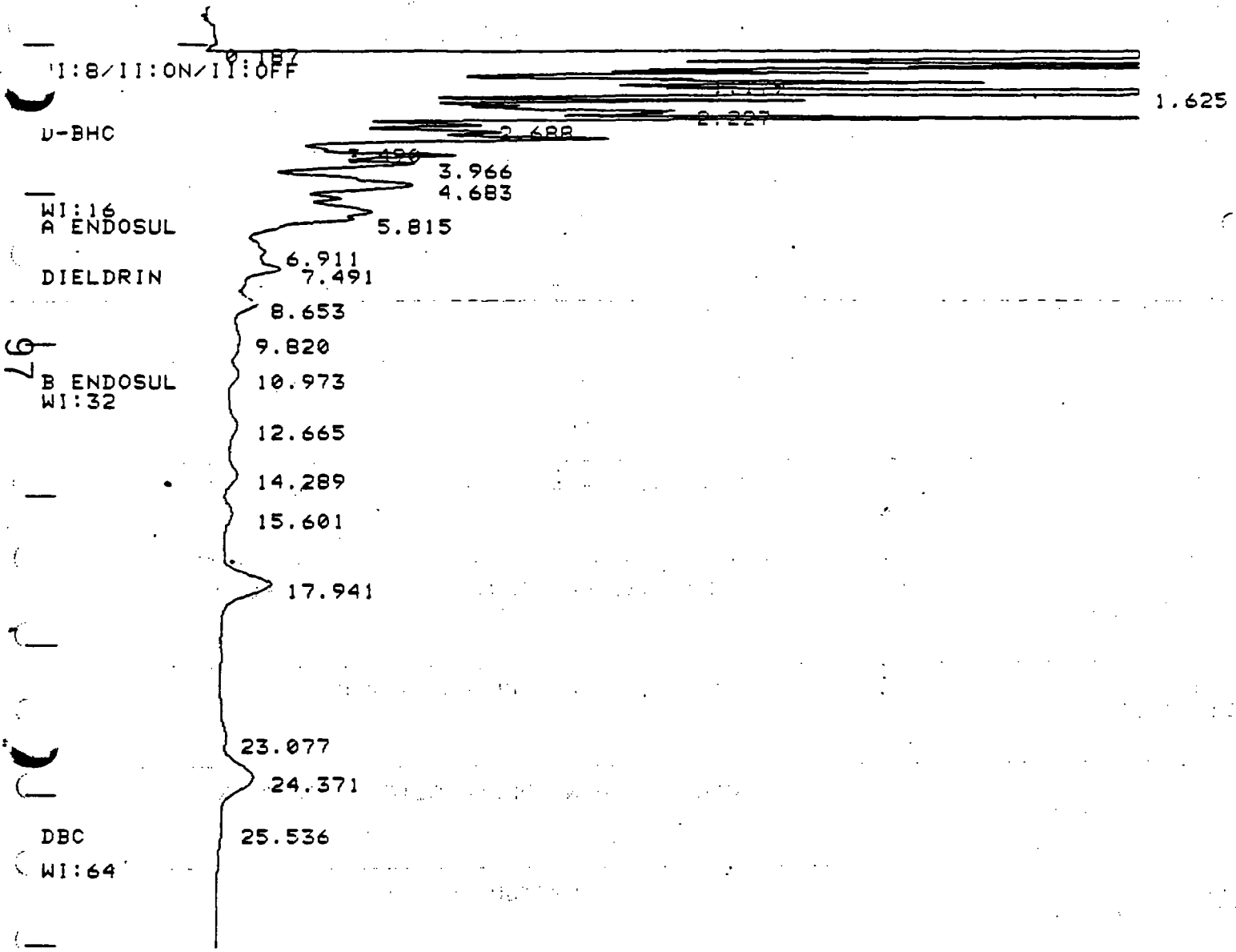
RACK: 1 VIAL: 14 INJ: 1

SAVED FILE: P1921

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

Varian /Sunnyvale, Calif p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/10

TITLE: RUN #14 08-03 16:58 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091741 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.288		122363	VB		6.05
2		0.0000	0.649		39868	BV		2.40
3		0.0000	0.777		10040	VV		2.85
4		0.0000	0.864		3044	VV		1.80
5		0.0000	0.951		5568	VB		2.25
6		0.0000	1.179		3715	BV	?	5.10
7		0.0000	1.278		8418	VV		6.75
8		0.0000	1.448		4715	VV	?	6.60
9		0.0000	1.625		34823	VV		5.55
10		0.0000	1.873		6260	VV		4.05
11	D-BHC	0.0020	2.026	0.04[illegible]	1875	VV		4.60
12		0.0000	2.227		4570	VV	?	[illegible]

varian/sunnyvale, calif p.n 03 906362 00

1/10

TITLE: RUN #14 08-03 16:58 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091741 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.288		122363	VB		6.05
2		0.0000	0.649		39868	BV		2.40
3		0.0000	0.777		10040	VV		2.85
4		0.0000	0.864		3044	VV		1.80
5		0.0000	0.951		5568	VB		2.25
6		0.0000	1.179		3715	BV	?	5.10
7		0.0000	1.278		8418	VV		6.75
8		0.0000	1.448		4715	VV	?	6.60
9		0.0000	1.625		34823	VV		5.55
10		0.0000	1.873		6260	VV		4.05
11	G-BHC	0.0020	2.026	0.046	1879	VV		4.60
12		0.0000	2.227		4570	VV	?	6.60
13	B-BHC	0.0140	2.311	-0.019	4492	VV	?	3.70
14		0.0000	2.457		13385	VV	?	3.15
15	D-BHC	0.0034	2.688	-0.032	2018	VV		6.45
16	ALDRIN	0.0042	2.912	-0.078	2568	VV	?	7.00
17		0.0000	3.127		4522	VV		9.15
18		0.0000	3.490		382	VV	?	6.70
19		0.0000	3.697		2517	VV		9.25
20		0.0000	3.966		1985	VV		11.20
21		0.0000	4.683		2212	VV	?	22.20
22		0.0000	5.121		1153	VV	?	14.50
23		0.0000	5.584		1743	VV	?	30.10
24	A ENDOSUL	0.0051	5.815	-0.145	1491	VV	?	16.25
25		0.0000	6.911		267	VV	?	29.30
26	DIELDRIN	0.0025	7.491	0.091	554	VB		17.75
27	ENDRIN	0.0016	8.653	-0.377	286	BB		20.75
28		0.0000	9.820		118	BV	?	36.50
29	B ENDOSUL	0.0011	10.973	-0.207	149	VB		26.10
30		0.0000	12.665		165	BV		36.65
31	END ALD	0.0037	14.289	-0.721	186	VV		30.15
32	ENDO SUL	0.0119	17.941	-0.639	758	BB		42.00
33		0.0000	23.077		100	BV	?	51.70
34	DBC	0.0103	24.371	-1.159	539	VV		56.65
TOTALS:		0.0598		-3.240	286853			

DETECTED PKS: 37 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: -56

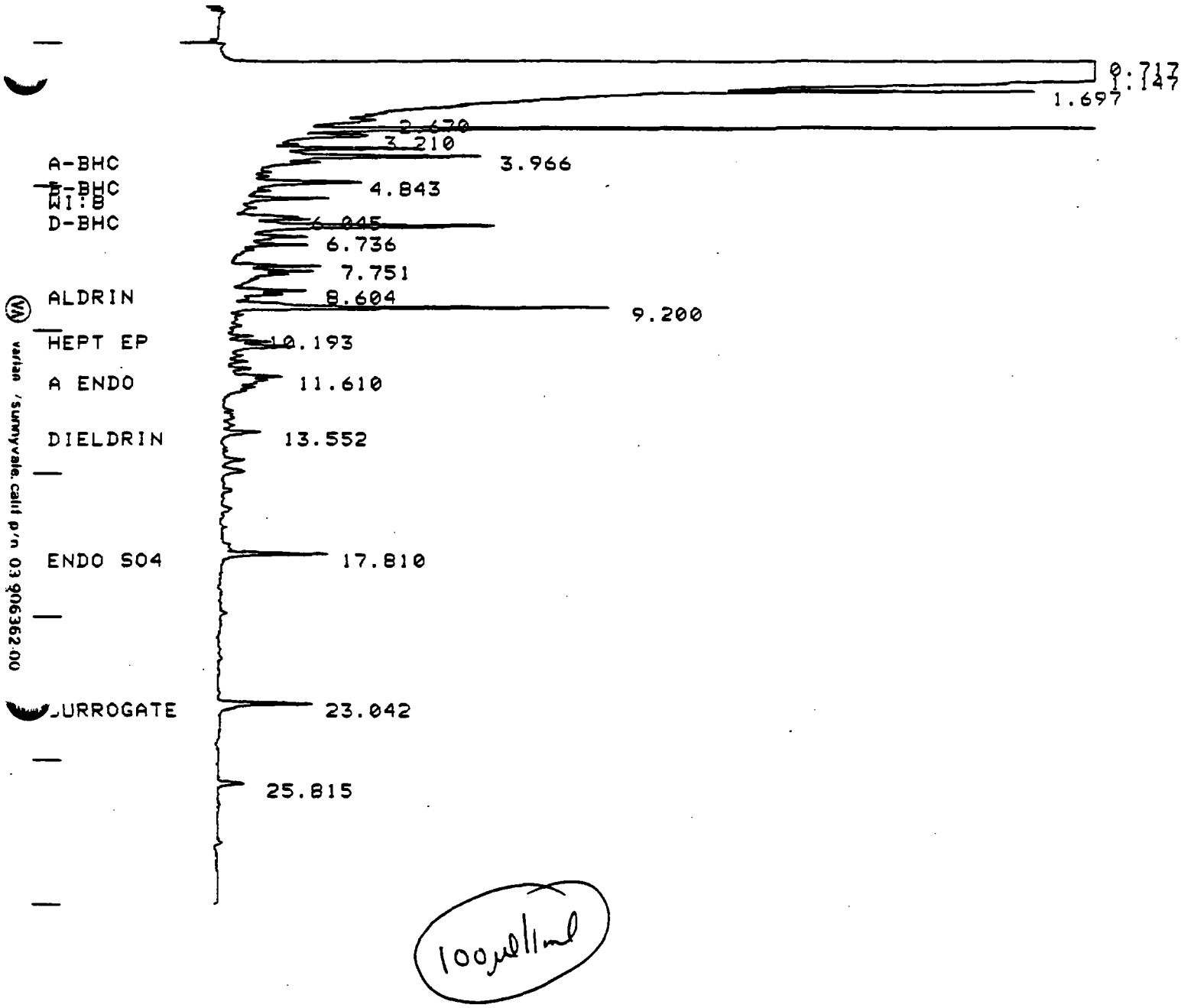
RACK: 1 VIAL: 14 INJ: 1

SAVED FILE: P1959

NOTES:
4 UL INJECTION
.5%SP2250/1.95%SP2401
-C #2

98

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



100µl/ml

TITLE: RUN# 10 08-03 0:38 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091741 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.717		2467130	0.06	BV		6.10
2		0.0000	1.147		442733	0.13	VV	?	
3		0.0000	1.402		233593	0.16	VV	?	
4		0.0000	1.697		166509	0.19	VV	?	16.45
5		0.0000	1.960		27260	0.22	VB	?	1.20
6		0.0000	2.670		9280	0.31	BB	?	3.60
7		0.0000	2.982		119645	0.34	BV		3.85
8		0.0000	3.210		18716	0.37	VB	?	5.70
9		0.0000	3.673		23103	0.42	BV		4.35
10		0.0000	3.966		45755	0.45	VV		5.50
11	B-BHC	0.0547	4.168	-0.082	15626	0.48	VB	?	4.85
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		

TITLE: RUN# 10 08-03 0:38 23 OCT 85

ANNEL NO: 1 SAMPLE: 15091741 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.717		2467130	0.08	BV		6.10
2		0.0000	1.147		442733	0.13	VV	?	
3		0.0000	1.402		233593	0.16	VV	?	
4		0.0000	1.697		166509	0.19	VV	?	16.45
5		0.0000	1.960		27260	0.22	VB	?	1.20
6		0.0000	2.670		9280	0.31	BB	?	3.60
7		0.0000	2.982		119645	0.34	BV		3.85
8		0.0000	3.210		18716	0.37	VB	?	5.70
9		0.0000	3.673		23103	0.42	BV		4.35
10		0.0000	3.966		45755	0.45	VV		5.50
11	A-BHC	0.0547	4.168	-0.082	15626	0.48	VB	?	4.85
12	B-BHC	0.2540	4.843	-0.137	25698	0.55	BB	?	6.80
13	G-BHC	0.0477	5.421	0.291	13215	0.62	BB		3.65
14	D-BHC	0.0305	6.045	0.135	8173	0.69	BV	?	4.00
15		0.0000	6.129		11240	0.70	VV	?	4.95
16		0.0000	6.365		72238	0.73	VV		6.55
17		0.0000	6.736		13590	0.77	VV		6.10
18		0.0000	7.012		14136	0.80	VB		4.20
19	HEPT	0.0498	7.751	0.181	11534	0.89	BV		4.10
20		0.0000	7.922		9912	0.91	VV		4.95
21		0.0000	8.028		6695	0.92	VB	?	8.00
22		0.0000	8.604		11391	0.99	BV		4.60
23	ALDRIN	0.0360	8.727	-0.193	12159	1.00	VV	?	7.80
24		0.0000	9.200		81321	1.05	VB		4.40
25		0.0000	10.193		3924	1.17	BV	?	4.40
26		0.0000	10.385		6757	1.19	VV		4.90
27	HEPT EP	0.0535	10.556	-0.194	14182	1.21	VB		6.80
28	A ENDO	0.0125	11.610	-0.810	4239	1.33	BB		5.90
29	DIELDRIN	0.0278	13.552	-0.168	7676	1.55	BB		6.00
30	ENDO SO4	0.0733	17.810	0.130	20333	2.04	BB		5.10
31	SURROGATE	0.0942	23.042	-0.528	24285	2.64	BB		6.10
32		0.0000	25.815		6196	2.96	BB	?	6.70
TOTALS:		0.7340		-1.375	3948240				

DETECTED PKS: 32 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -231

RACK: 1 VIAL: 10 INJ: 1

SAVED FILE: P656

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270°C @3°C/MIN

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK

161

varian /sunnyvale, calif p/n 03 906362 00

Environmental Protection Agency, CLP Sample Management Office,
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-04

15090506

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/13/85

Date Analyzed: 11/10/85

Conc/Dil Factor: 2

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

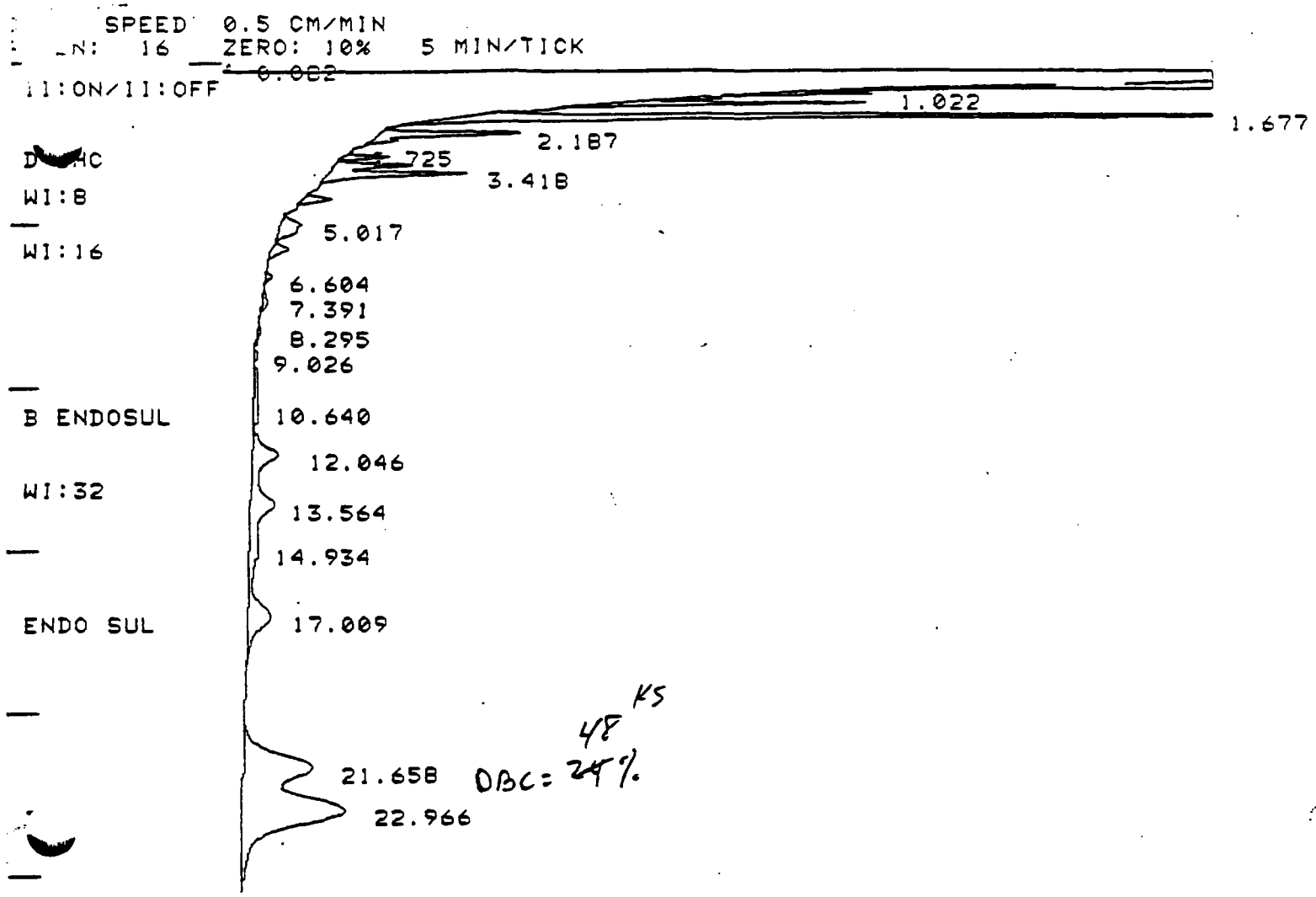
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4



1/2

TITLE: RUN # 14 08-04 21:46 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090506 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.320		122268	VV	?	2.40
2		0.0000	0.363		158002	VB	?	3.60
3		0.0000	0.499		15341	BB	?	0.50
4		0.0000	0.685		71022	BV		2.05
5		0.0000	0.761		1244	T	?	1.35
6		0.0000	0.816		14639	VV		1.70
7		0.0000	0.902		1293	VV		1.65
8		0.0000	1.022		1498	VB		1.90
9		0.0000	1.151		438	BV		1.40
		0.0000	1.264		3570	VB		4.10
11	A-BHC	0.0244	1.677	0.057	31959	BB		4.20
12		0.0000	2.187		2052	BV	?	7.85
13	B-BHC	0.0012	2.383	0.023	398	VB		3.90
14	ALDRIN	0.0010	2.901	-0.109	676	VV		5.90
15		0.0000	3.157		1160	VV	?	6.60
16		0.0000	3.418		2021	VB	?	7.80
17		0.0000	4.204		400	BB		9.00
18		0.0000	5.017		293	BV	?	14.90
19		0.0000	5.[illegible]		283	VV	?	17.70

21.658 DBC = 1/2
22.966

1/2

TITLE: RUN # 14 08-04 21:46 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090506 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.320		122268	VV	?	2.40
2		0.0000	0.363		158002	VB	?	3.60
3		0.0000	0.499		15341	BB	?	0.50
4		0.0000	0.685		71022	BV		2.05
5		0.0000	0.761		1244	T	?	1.35
6		0.0000	0.816		14639	VV		1.70
7		0.0000	0.902		1293	VV		1.65
8		0.0000	1.022		1498	VB		1.90
9		0.0000	1.151		438	BV		1.40
10		0.0000	1.284		3570	VB		4.10
11	A-BHC	0.0244	1.677	0.057	31959	BB		4.20
12		0.0000	2.187		2052	BV	?	7.85
13	B-BHC	0.0012	2.383	0.023	398	VB		3.90
14	ALDRIN	0.0010	2.901	-0.109	676	VV		5.90
15		0.0000	3.157		1160	VV	?	8.60
16		0.0000	3.418		2021	VB	?	7.80
17		0.0000	4.204		400	BB		9.00
18		0.0000	5.017		292	BV	?	14.90
19		0.0000	5.178		262	VV	?	17.70
20	A ENDOSUL	0.0008	5.753	-0.027	238	VB		12.25
21		0.0000	12.046		369	VV		29.50
22	END ALD	0.0054	13.564	-0.546	351	VV		35.75
23		0.0000	14.934		124	VV	?	44.50
24	ENDO SUL	0.0063	17.009	-0.271	350	VB		41.00
25		0.0000	21.658		1007	BV	?	53.50
26	DBC	0.0240	22.966	-0.084	1512	VV	?	59.50
TOTALS:		0.0631		-0.957	432486			

DETECTED PKS: 35 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: 16

SAVED FILE: P1241

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian / sunnyvale, calif. p/n 03-906362-00

TITLE: RUN # 14 08-04 21:46 10 NOV 85

Environmental Protection Agency. CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-05

15091742

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/15/85

Date Analyzed: 10/21/85

Conc/Dil Factor: 5

CAS Number		ug/~~l or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	0.57
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

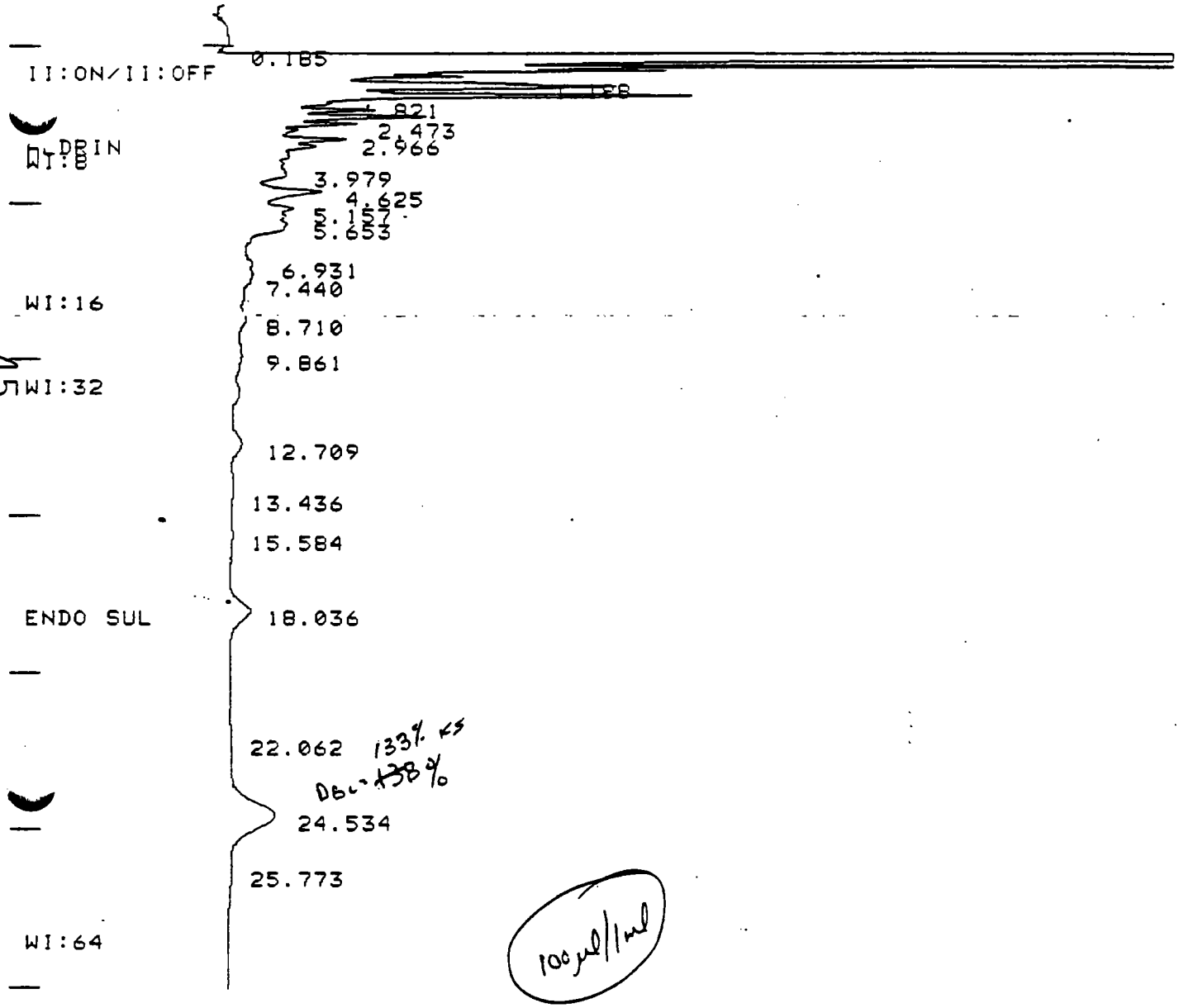
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



$f = \frac{.2\ \mu g/ml}{2.44}$

$f = .0820$

$H \times f \times dil \times f.V. \times \frac{\text{[illegible]}}{\text{[illegible]}} = \mu g/puff$

$1.17 \times .0820 \times 10 \times 1ml = .96\ \mu g/puff$

$\frac{\mu g/ml}{\text{[illegible]}} \times 100 \times 1ml = 7$

PCB 1242

H=1.17

TITLE: RUN # 17 08-05 1:26 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091742 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.289		130009	VB		5.85
2		0.0000	0.649		30883	BV		2.30
3		0.0000	0.789		3359	VV		1.85
4		0.0000	0.868		439	VV		1.35
5		0.0000	0.965		1249	VB		2.35
6		0.0000	1.188 ✓		2757	BV	?	4.30
7		0.0000	1.277 ✓		4172	VV	?	8.80
8		0.0000	1.452 ✓		962	VV	?	3.40
9	A-BHC	0.0042	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	VV	?	6.95
10		0.0000	1.821 ✓		160	T		2.45
11	G-BHC	0.0012	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	VV		5.20
12	B-BHC	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	VV		6.55
13		0.0000	2.473 ✓		[illegible]	[illegible]		[illegible]

varian /sunnyvale, calif p/n 03-906362 00

WI:64

100 µl/1 ml

varian /sunnyvale, calif. p/n 03-906362-00

$f = \frac{.2\ \mu g/ml}{2.44}$

$f = .0820$

$H \times f \times dil \times f.V. \times \frac{100\ \mu l}{1\ ml} = \mu g/puff$

$1.17 \times .0820 \times 10 \times 1ml = .96\ \mu g/puff$

PCB 1242

H=1.17

TITLE: RUN # 17 08-05 1:26 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091742 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.289		130009	VB		5.85
2		0.0000	0.649		30883	BV		2.30
3		0.0000	0.789		3359	VV		1.85
4		0.0000	0.868		439	VV		1.35
5		0.0000	0.965		1249	VB		2.35
6		0.0000	1.188		2757	BV	?	4.30
7		0.0000	1.277		4172	VV	?	8.80
8		0.0000	1.452		962	VV	?	3.40
9	A-BHC	0.0042	1.593	-0.053	5627	VV	?	6.95
10		0.0000	1.821		160	T		2.45
11	G-BHC	0.0012	2.044	-0.064	1167	VV		5.20
12	B-BHC	0.0063	2.243	-0.087	2008	VV		6.55
13		0.0000	2.473		1053	VV		4.80
14	D-BHC	0.0003	2.649	-0.071	193	VV		5.40
15	ALDRIN	0.0016	2.966	-0.024	997	VV		7.50
16		0.0000	3.179		598	VV	?	8.60
17		0.0000	3.397		214	VV	?	7.30
18		0.0000	3.500		259	VV	?	7.40
19		0.0000	3.714		200	VV		5.30
20		0.0000	3.979		286	VV	?	11.50
21		0.0000	4.095		328	VV	?	8.30
22		0.0000	4.625		943	VV		13.15
23		0.0000	5.157		556	VV	?	11.80
24		0.0000	5.399		465	VV	?	10.70
25		0.0000	5.653		525	VV	?	14.00
26	A ENDOSUL	0.0016	5.787	-0.173	476	VB	?	9.00
27		0.0000	6.931		113	BV	?	13.80
28	DIELDRIN	0.0006	7.264	-0.136	127	VV	?	14.50
29		0.0000	12.709		142	BV		32.35
30	ENDO SUL	0.0046	18.036	-0.544	292	BB		41.60
31	DBC	0.0133	24.534	-0.996	696	VV		58.40
TOTALS:		0.0337		-1.914	191255			

DETECTED PKS: 41 REJECTED PKS: 10

DIVISOR: 1.00000 MULTIPLIER: 1.00000

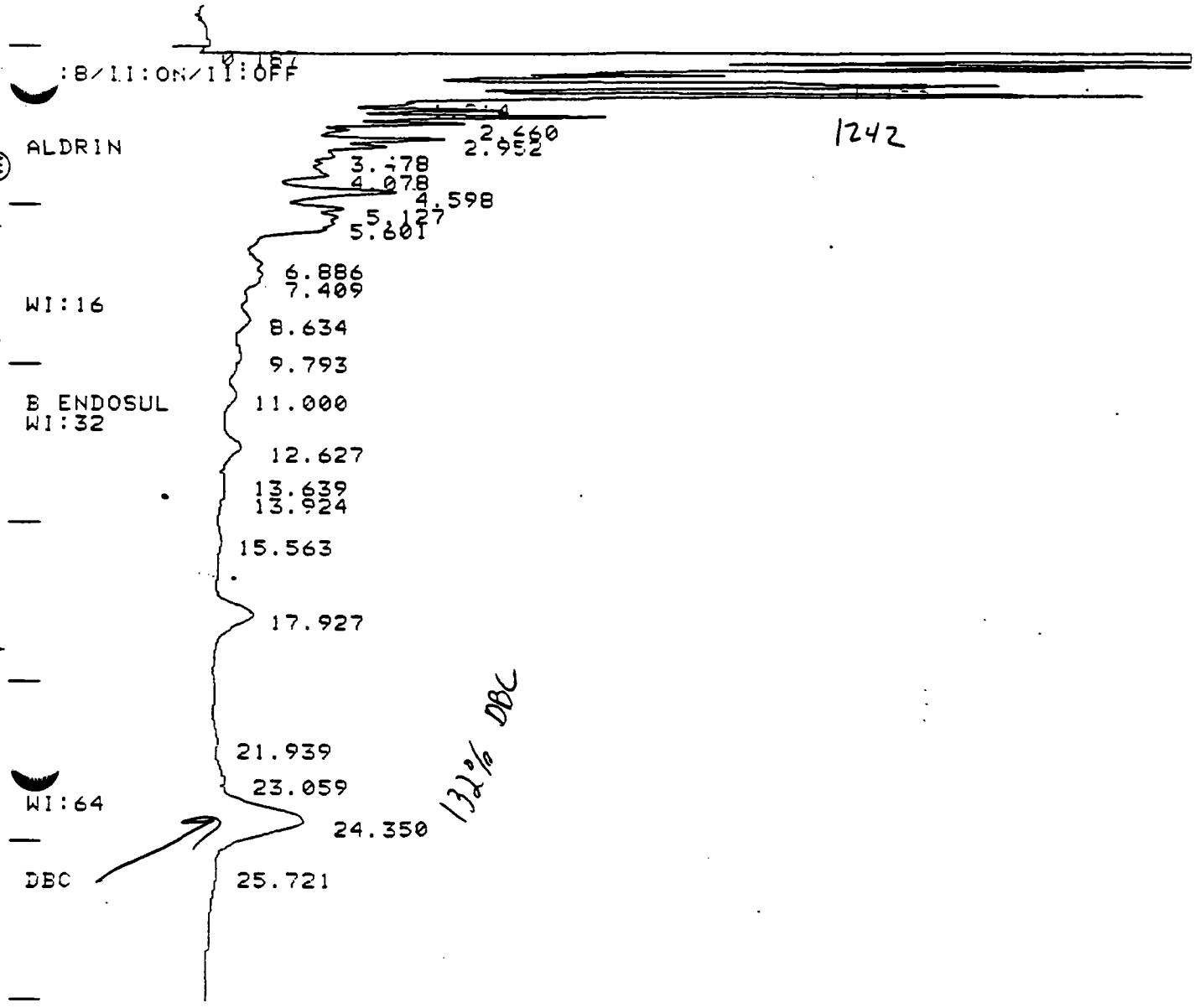
NOISE: 2.4 OFFSET: 43

RACK: 2 VIAL: 2 INJ: 1

SAVED FILE: P1924

NOTES:
4 UL INJECTION
.5%SP2250/1.95%SP2401
C =2

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/5

08-05

TITLE: RUN # 17 18:36 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091742 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.294		130535	VB	6.60
2		0.0000	0.650		52664	BV	2.50
		0.0000	0.787		7118	VV	2.15
4		0.0000	0.862		936	VV ?	1.00
5		0.0000	0.959		3285	VB	2.50
6		0.0000	1.193		5885	BV ?	5.00
7		0.0000	1.273		8585	VV ?	8.90
8		0.0000	1.447		1863	VV ?	3.20
9	--B-1	0.0083	1.584	0.044	11186	VV	2.55
10		0.0000	1.814		247	T	2.20
11	B-B-1	0.0034	2.034	0.05-	2232	V	5.15

1/5

1242 = 1.03 Ht. x 0.1049 µg/ml Ht. x 1 ml x 5 = 0.57 µg

08-05

102

TITLE: RUN # 17 18:36 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091742 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.294		130535	VB		6.60
2		0.0000	0.650		52664	BV		2.50
3		0.0000	0.787		7118	VV		2.15
4		0.0000	0.862		936	VV	?	1.00
5		0.0000	0.959		3285	VB		2.50
6		0.0000	1.193		5885	BV	?	5.00
7		0.0000	1.273		8585	VV	?	8.90
8		0.0000	1.447		1862	VV	?	3.20
9	A-BHC	0.0083	1.584	0.044	11186	VV		6.55
10		0.0000	1.814		247	T		2.60
11	G-BHC	0.0024	2.034	0.054	2230	VV		5.15
12	B-BHC	0.0123	2.257	-0.093	3937	VV		6.35
13		0.0000	2.460		2013	VV		4.70
14	D-BHC	0.0006	2.638	-0.082	386	VV		5.10
15	ALDRIN	0.0031	2.952	-0.038	1908	VV		7.45
16		0.0000	3.163		1129	VV		9.00
17		0.0000	~~3.478~~		~~485~~	VV	?	10.35
18		0.0000	3.691	Ht: ~~1.04~~ 1.03 KS	367	VV		5.20
19		0.0000	4.078		602	VV	?	10.70
20		0.0000	4.598		1792	VV		13.05
21		0.0000	5.127		1084	VV	?	11.70
22		0.0000	5.392		1058	VV	?	14.30
23		0.0000	5.601		1028	VV	?	8.90
24	A ENDOSUL	0.0031	5.738	-0.222	912	VB	?	9.65
25		0.0000	6.886		231	BV	?	14.30
26		0.0000	7.214		268	VV	?	14.50
27	DIELDRIN	0.0010	7.409	0.009	225	VV	?	9.55
28	ENDRIN	0.0010	8.634	-0.396	182	VB		22.70
29		0.0000	9.793		110	BV		23.60
30	B ENDOSUL	0.0012	11.000	-0.180	152	VB		25.65
31		0.0000	12.627		276	BV		32.95
32	ENDO SUL	0.0089	17.927	-0.653	570	VB		41.60
33		0.0000	23.059		161	VV	?	54.40
34	DBC	0.0263	24.350	-1.180	1376	VV		58.45
TOTALS:		0.0682		-2.737	244785			

DETECTED PKS: 41 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: -69

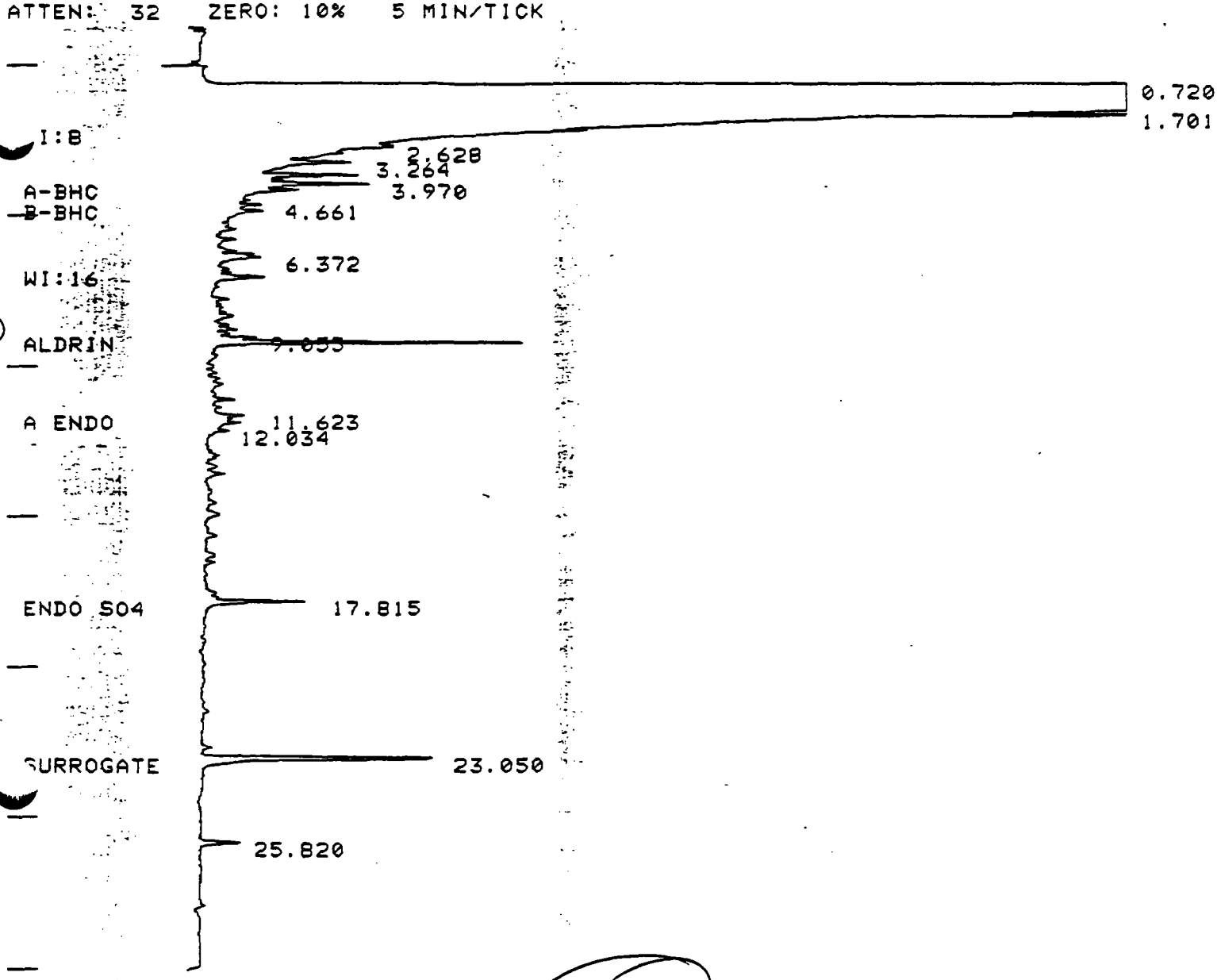
RACK: 2 VIAL: 2 INJ: 1

SAVED FILE: P1962

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC =2

varian /sunnyvale, calif. p/n 03 906362 00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



200ul/1ml

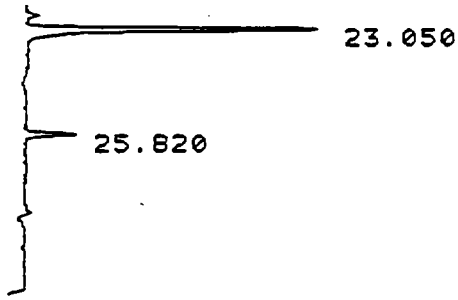
08-05

TITLE: RUN# 12 2:10 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091742 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.720		4535320	0.08	BV		8.00
2		0.0000	1.701		367977	0.19	VV	?	17.95
3		0.0000	1.945		147561	0.21	VV	?	
4		0.0000	2.196		134446	0.24	VV	?	1.10
5		0.0000	2.628		21111	0.29	VB	?	
6		0.0000	3.264		14685	0.36	BV	?	2.75
7		0.0000	3.679		15278	0.41	VV		4.65
8		0.0000	3.970		23363	0.44	VV		4.45
9	A-BHC	0.0248	4.166	-0.084	7072	0.46	VB		3.80
10		0.0000	4.661		3762	0.51	BV		3.95
11	B-BHC	0.0649	4.852	-0.128	6563	0.54	VB		4.05
12	D-BHC	0.0433	6.372	0.462	11599	0.70	BB	?	13.30
13	HEPT	0.0469	7.031	-0.539	10851	0.78	BB		5.30

varian /sunnyvale, calif p/n 03-906362-00



200ul/1ml

08-05

TITLE: RUN# 12 2:10 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091742 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.720		4535320	0.08	BV		8.00
2		0.0000	1.701		367977	0.19	VV	?	17.95
3		0.0000	1.945		147561	0.21	VV	?	
4		0.0000	2.196		134446	0.24	VV	?	1.10
5		0.0000	2.628		21111	0.29	VB	?	
6		0.0000	3.264		14685	0.36	BV	?	2.75
7		0.0000	3.679		15278	0.41	VV		4.65
8		0.0000	3.970		23363	0.44	VV		4.45
9	A-BHC	0.0248	4.166	-0.084	7072	0.46	VB		3.80
10		0.0000	4.661		3762	0.51	BV		3.95
11	B-BHC	0.0649	4.852	-0.128	6563	0.54	VB		4.05
12	D-BHC	0.0433	6.372	0.462	11599	0.70	BB	?	13.30
13	HEPT	0.0469	7.031	-0.539	10851	0.78	BB		5.30
14	ALDRIN	0.0250	9.055	0.135	8428	1.00	BV	?	5.10
15		0.0000	9.205		46156	1.02	VB		3.95
16		0.0000	11.623		6927	1.28	BV		6.00
17		0.0000	11.703		9943	1.29	VV	?	
18	A ENDO	0.0105	12.034	-0.386	3551	1.33	VB	?	17.00
19	ENDO SO4	0.0672	17.815	0.135	18638	1.97	BB		4.70
20	SURROGATE	0.2196	23.050	-0.520	56654	2.55	BB		6.50
21		0.0000	25.820		9086	2.85	BB		6.35
TOTALS:		0.5022		-0.925	5458970				

DETECTED PKS: 21 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -251

RACK: 1 VIAL: 12 INJ: 1

SAVED FILE: P658

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
55°C (3 MIN) ---> 270°C @3°C/MIN

164

Varian Sunnyvale Calif. 0 0 0 0 0 0 0 0 0 0

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-06

15091744

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/15/85

Date Analyzed: 10/21/85

Conc/Dil Factor: 5

CAS Number		ug/PUF ~~l or ug/Kg~~ (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	< 0.5
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

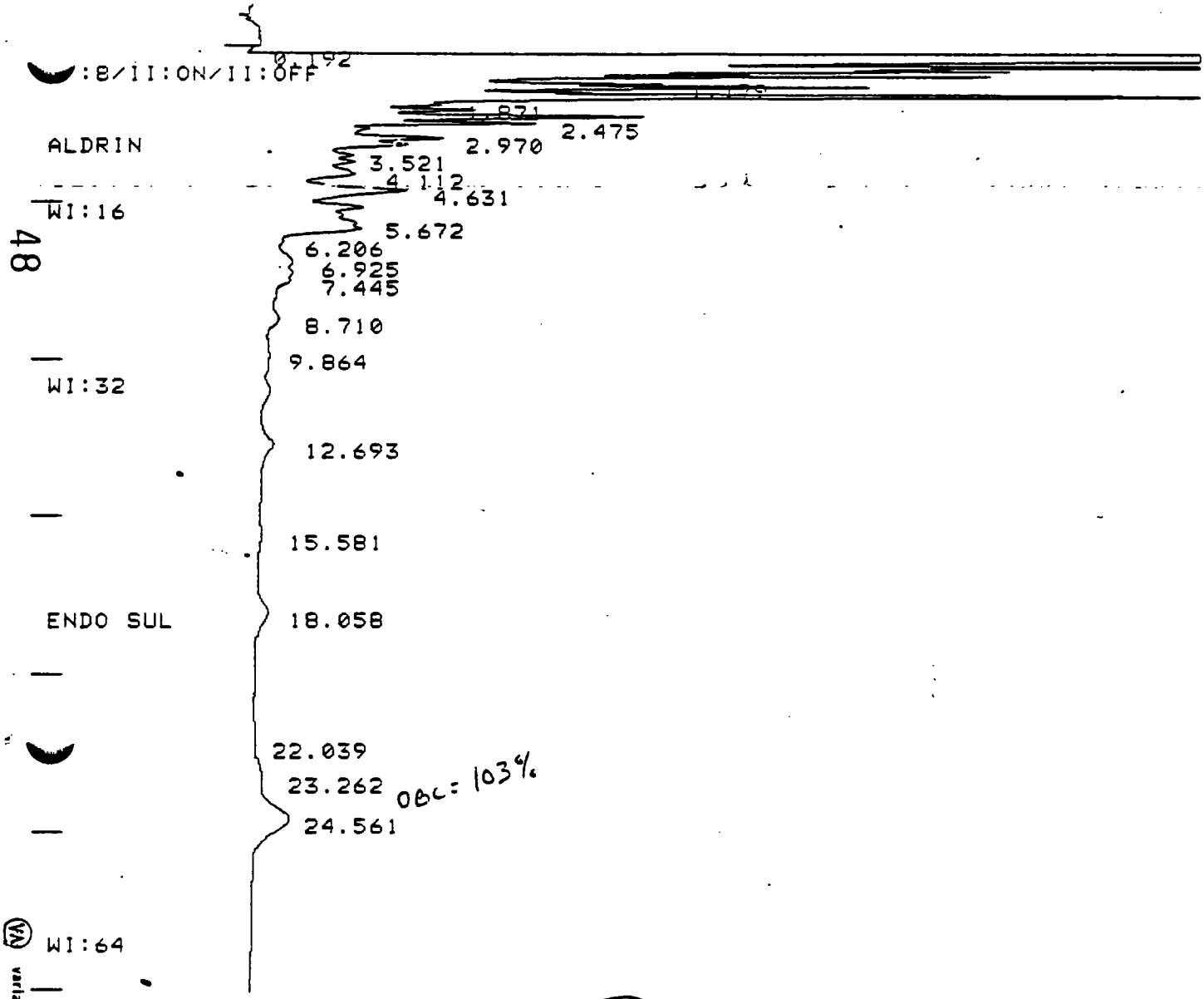
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



48

100 µl/1ml

08-06

TITLE: RUN # 19 2:31 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091744 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.289		132101	VB	6.20
2		0.0000	0.651		40740	BV	2.40
3		0.0000	0.732		3575	VV ?	
4		0.0000	0.790		5684	VV ?	3.00
5		0.0000	0.867		2294	VV	1.60
6		0.0000	0.955		6606	VB	2.25
7		0.0000	1.179		2775	BV ?	3.60
8		0.0000	1.285		6086	VV	4.75
9		0.0000	1.455		2186	VV ?	3.20
10	A-BHC	0.0097	1.595	0.055	13160	VV	6.40

varian /sunnyvale, calif p.n 03 906362 00

100µl/1ml

08-06

TITLE: RUN # 19 2:31 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091744 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.289		132101	VB		6.20
2		0.0000	0.651		40740	BV		2.40
3		0.0000	0.732		3575	VV	?	
4		0.0000	0.790		5684	VV	?	3.00
5		0.0000	0.867		2294	VV		1.60
6		0.0000	0.955		6606	VB		2.25
7		0.0000	1.179		2775	BV	?	3.60
8		0.0000	1.285		6086	VV		4.75
9		0.0000	1.455		2186	VV	?	3.20
10	A-BHC	0.0097	1.595	0.055	13160	VV		6.40
11		0.0000	1.871		440	T		2.15
12	G-BHC	0.0014	2.038	0.058	1351	VV		4.90
13	B-BHC	0.0127	2.247	-0.083	4071	VV		6.85
14		0.0000	2.475		2629	VV		5.00
15	D-BHC	0.0004	2.654	-0.066	252	VV		5.00
16	ALDRIN	0.0025	2.970	-0.020	1500	VV		7.55
17		0.0000	3.168		1054	VV		8.40
18		0.0000	3.521		376	VV		7.40
19		0.0000	3.717		488	VV		7.55
20		0.0000	4.112		648	VV	?	12.75
21		0.0000	4.631		1540	VV		14.00
22		0.0000	5.166		1012	VV	?	11.20
23		0.0000	5.421		761	VV	?	10.50
24		0.0000	5.672		1010	VV	?	16.70
25	A ENDOSUL	0.0038	5.851	-0.109	1091	VV	?	15.85
26		0.0000	6.925		218	VV	?	28.80
27		0.0000	7.265		226	VV	?	17.40
28	DIELDRIN	0.0008	7.445	0.045	188	VB	?	23.60
29	ENDRIN	0.0007	8.710	-0.320	130	BB		21.40
30	B ENDOSUL	0.0009	11.005	-0.175	113	VB		26.40
31		0.0000	12.693		178	BV		35.05
32	ENDO SUL	0.0027	18.058	-0.522	175	BB		39.95
33		0.0000	23.262		115	VV	?	57.10
34	DBC	0.0103	24.561	-0.969	537	VB		57.80
TOTALS:		0.0459		-2.106	235310			

DETECTED PKS: 40 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 86

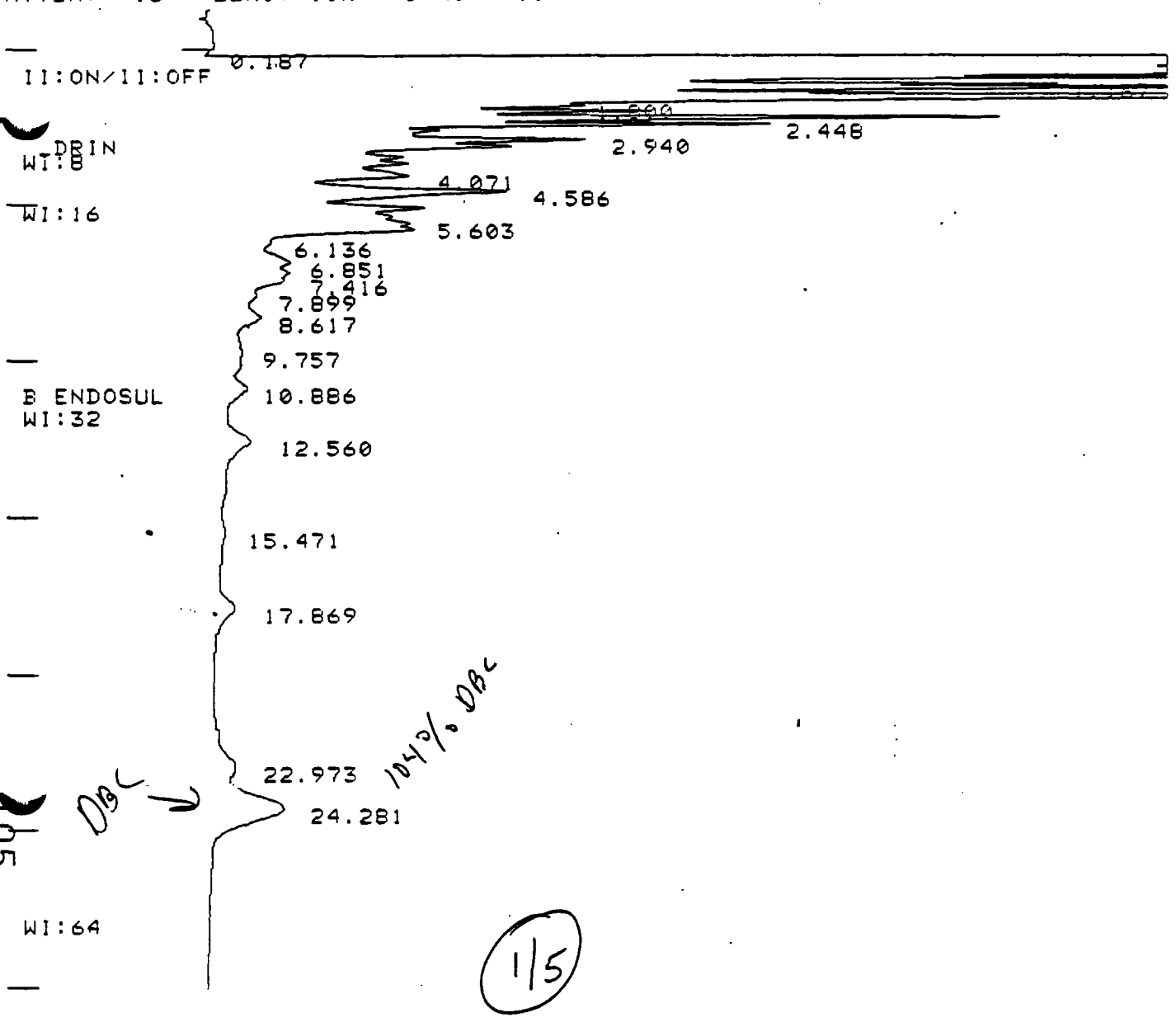
RACK: 2 VIAL: 4 INJ: 1

SAVED FILE: P1926

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
^C #2

call p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN # 19 08-06 19:41 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091744 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		133910	VV	?	5.00
2		0.0000	0.330		96555	VB	?	3.10
3		0.0000	0.442		9257	BB		1.05
4		0.0000	0.644		69986	BV		2.45
5		0.0000	0.728		8460	VV	?	1.80
6		0.0000	0.784		14242	VV	?	1.30
7		0.0000	0.856		7914	VV		1.65
8		0.0000	0.945		25658	VB		2.40
9		0.0000	1.167		5950	BV	?	3.50
10		0.0000	1.272		12943	VV		4.75
11		0.0000	1.439		4442	VV	?	3.10
12	--BHI	0.0201	1.530	0.000	27131	[illegible]	?	2.30
13		0.0000	1.600		[illegible]	[illegible]		0.85

TITLE: RUN # 19 08-06 19:41 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091744 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		133910	VV	?	5.00
2		0.0000	0.330		96555	VB	?	3.10
3		0.0000	0.442		9257	BB		1.05
4		0.0000	0.644		69986	BV		2.45
5		0.0000	0.728		8460	VV	?	1.80
6		0.0000	0.784		14242	VV	?	1.30
7		0.0000	0.856		7914	VV		1.65
8		0.0000	0.945		25658	VB		2.40
9		0.0000	1.167		5950	BV	?	3.50
10		0.0000	1.272		12943	VV		4.75
11		0.0000	1.439		4442	VV	?	3.10
12	A-BHC	0.0201	1.580	0.040	27131	VV	?	6.30
13		0.0000	1.800		171	T		0.85
14		0.0000	1.854		883	T		1.75
15	G-BHC	0.0028	2.017	0.037	2693	VV		4.90
16	B-BHC	0.0262	2.225	-0.105	8409	VV		6.60
17		0.0000	2.448		5308	VV		4.85
18		0.0000	2.627		531	VV		5.00
19	D-BHC	0.0003	2.732	0.012	208	VV	?	
20	ALDRIN	0.0049	2.940	-0.050	2990	VV		7.45
21		0.0000	3.136		2048	VV	?	8.35
22		0.0000	3.487		688	VV		7.25
23		0.0000	3.679		929	VV		7.35
24		0.0000	4.071		1235	VV	?	12.55
25		0.0000	4.586		2990	VV		13.85
26		0.0000	5.114		1966	VV	?	11.10
27		0.0000	5.379		1578	VV	?	11.50
28		0.0000	5.603		1945	VV	?	14.40
29	A ENDOSUL	0.0072	5.791	-0.169	2084	VV	?	16.30
30		0.0000	6.851		446	VV	?	27.80
31		0.0000	7.192		487	VV	?	17.90
32	DIELDRIN	0.0020	7.416	0.016	443	VV	?	15.65
33	ENDRIN	0.0015	8.617	-0.413	260	VB		20.45
34		0.0000	9.757		104	BV	?	30.35
35		0.0000	10.164		111	VV	?	16.00
36	B ENDOSUL	0.0017	10.886	-0.294	229	VB		26.10
37		0.0000	12.560		326	BB		34.75
38	ENDO SUL	0.0039	17.869	-0.711	252	BB		38.60
39		0.0000	22.973		340	BV	?	56.80
40	DBC	0.0209	24.281	-1.249	1093	VB	?	57.50
TOTALS:		0.0915		-2.886	457195			

DETECTED PKS: 44 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: -9

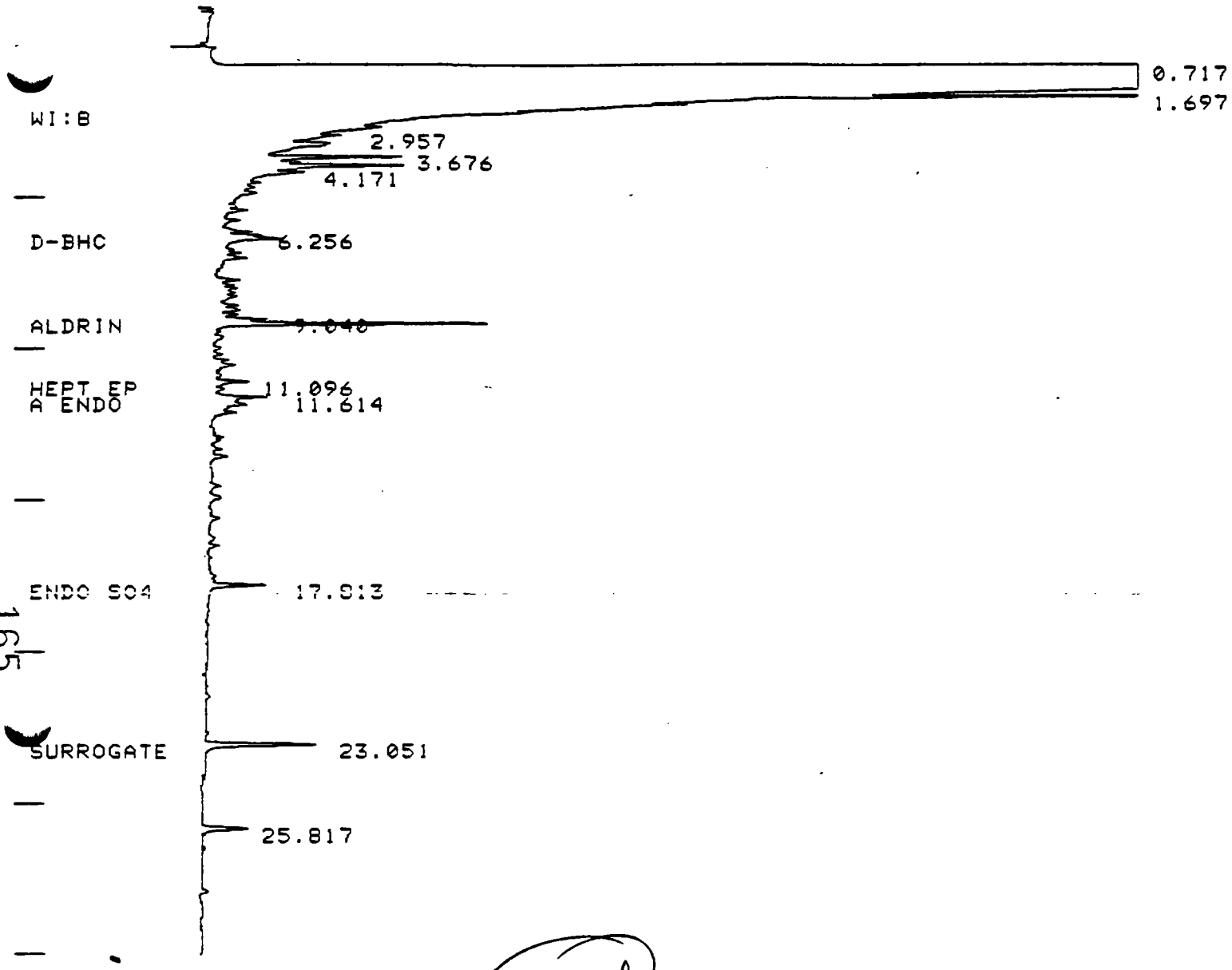
RACK: 2 VIAL: 4 INJ: 1

VED FILE: P1964

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale, calif p.n. 03 906 962 00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



200µl/ml

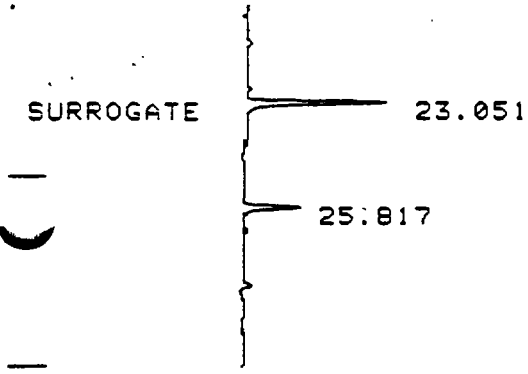
08-06

TITLE: RUN# 13 2:56 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091744 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.717		3867560	0.08	BV		7.15
2		0.0000	1.697		284467	0.19	VV	?	17.05
3		0.0000	1.958		122667	0.22	VV	?	1.40
4		0.0000	2.168		70274	0.24	VB	?	
5		0.0000	2.957		5917	0.33	BV	?	1.95
6		0.0000	3.222		14595	0.36	VV		8.65
7		0.0000	3.676		20022	0.41	VV		4.25
8		0.0000	3.840		5427	0.43	VV	?	3.20
9		0.0000	3.965		29090	0.44	VV	?	2.85
10	[illegible]	0.0347	4.171	-0.079	9900	0.46	VB	?	4.75
11	[illegible]	0.0134	6.256	0.346	[illegible]	[illegible]	BV	?	3.50

165



200ml/ml

08-06

TITLE: RUN# 13 2:56 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091744 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.717		3867560	0.08	BV		7.15
2		0.0000	1.697		284467	0.19	VV	?	17.05
3		0.0000	1.958		122667	0.22	VV	?	1.40
4		0.0000	2.168		70274	0.24	VB	?	
5		0.0000	2.957		5917	0.33	BV	?	1.95
6		0.0000	3.222		14595	0.36	VV		8.65
7		0.0000	3.676		20022	0.41	VV		4.25
8		0.0000	3.840		5427	0.43	VV	?	3.20
9		0.0000	3.965		29090	0.44	VV	?	2.85
10	A-BHC	0.0347	4.171	-0.079	9900	0.46	VB	?	4.75
11	D-BHC	0.0134	6.256	0.346	3589	0.69	BV	?	3.50
12		0.0000	6.366		11204	0.70	VB	?	6.15
13	ALDRIN	0.0180	9.040	0.120	6085	1.00	BV	?	3.30
14		0.0000	9.198		40857	1.02	VB		4.10
15	HEPT EP	0.0198	11.096	0.346	5234	1.23	BB		4.50
16	A ENDO	0.0133	11.614	-0.806	4507	1.28	BB		5.20
17	ENDO SO4	0.0324	17.813	0.133	8993	1.97	BB		4.40
18	SURROGATE	0.0947	23.051	-0.519	24418	2.55	BB		6.15
19		0.0000	25.817		9668	2.86	BB		6.40
TOTALS:		0.2263		-0.459	4544470				

DETECTED PKS: 19 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -246

RACK: 1 VIAL: 13 INJ: 1

SAVED FILE: P659

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270°C @3°C/MIN

varian, sunnyvale, calif p/n 03 906362 00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-07 15090507

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/13/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 100

CAS Number		ug / PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 10
11104-28-2	Aroclor-1221	< 10
11141-16-5	Aroclor-1232	< 10
53469-21-9	Aroclor-1242	39
12672-29-6	Aroclor-1248	< 10
11097-69-1	Aroclor-1254	< 20
11096-82-5	Aroclor-1260	< 20

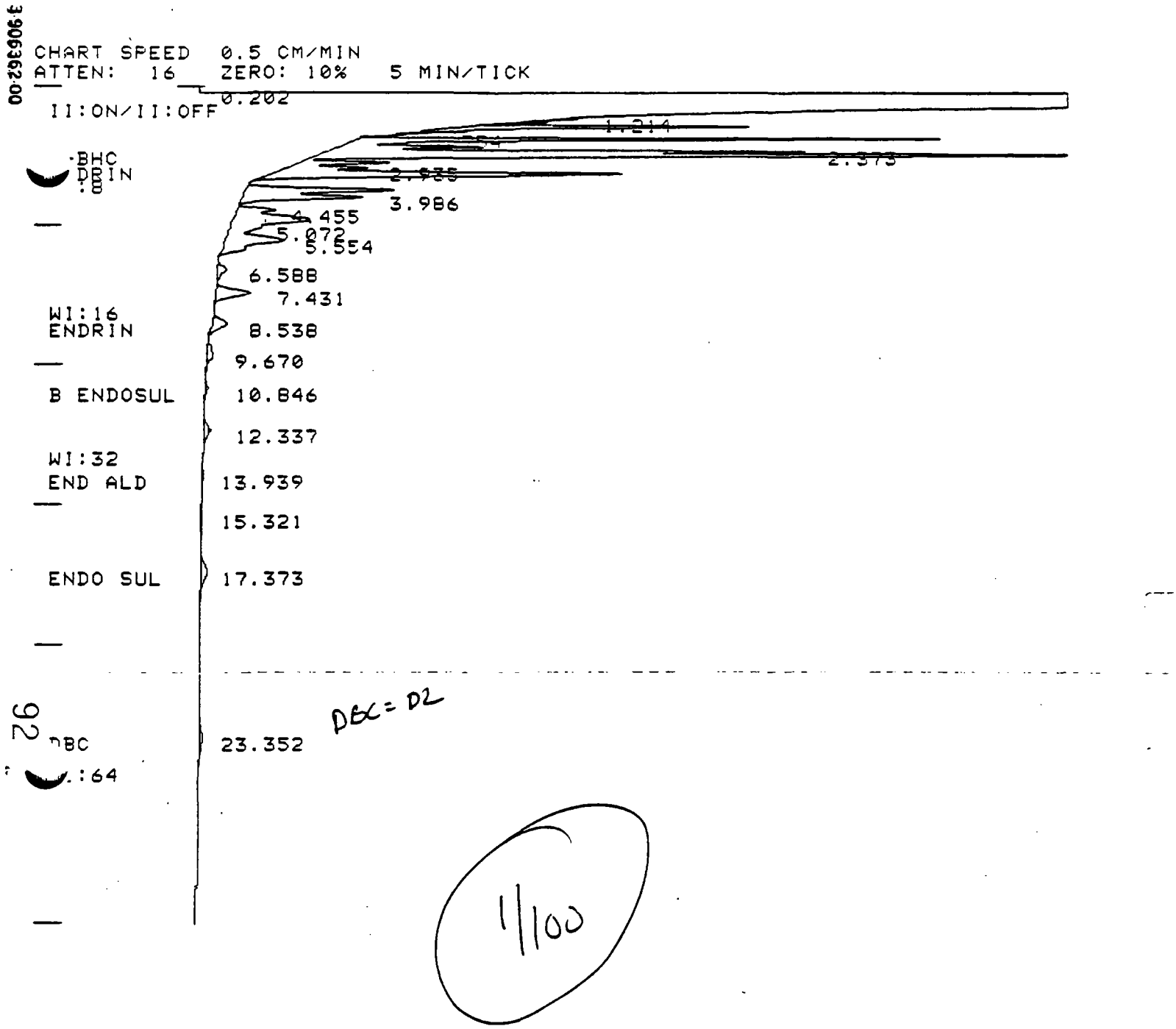
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4



1/100

TITLE: RUN # 27 08-07 5:18 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090507 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.279		157458	VV	?	2.00
2		0.0000	0.354		145584	VB	?	5.30
3		0.0000	0.679		4232	BB	?	0.85
4		0.0000	1.214		418	BV		1.75
5		0.0000	1.317		641	VV		2.15
6		0.0000	1.494		5088	VV		5.65
7	A-BHC	0.0002	1.632	0.012	308	T		1.00
8		0.0000	1.754		367	T		2.15
9		0.0000	1.925		10010	VV		4.60
10	G-BHC	0.0011	2.051	0.001	1063	VV	?	5.30
11		0.0000	2.182		2441	VV		5.40
12	B-BHC	0.0244	2.373	0.013	8283	VV	?	5.60
13		0.0000	2.502		15313	VV		5.95
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	VV		6.15

00-296-2-00
92 26
varian /sunnyvale, calif

1100

Aroclor 1242: 5.84 Ht. × 0.066 µg/mm Ht. × 1 ml × 100 = 39 µg

TITLE: RUN # 27 08-07 5:18 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090507 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.279		157458	VV	?	2.00
2		0.0000	0.354		145584	VB	?	5.30
3		0.0000	0.679		4232	BB	?	0.85
4		0.0000	1.214		418	BV		1.75
5		0.0000	1.317		641	VV		2.15
6		0.0000	1.494		5088	VV		5.65
7	A-BHC	0.0002	~~1.632~~	0.012	~~308~~	T		1.00
8		0.0000	1.754		367	T		2.15
9		0.0000	1.925		10010	VV		4.60
10	G-BHC	0.0011	2.051	0.001	1063	VV	?	5.30
11		0.0000	~~2.182~~		~~2441~~	VV		5.40
12	B-BHC	0.0244	2.373	0.013	8263	VV	?	5.60
13		0.0000	2.502		15313	VV		5.95
14	D-BHC	0.0027	2.749	0.009	1586	VV		6.15
15	ALDRIN	0.0022	2.935	-0.075	1450	VV		6.00
16		0.0000	3.162		6020	VB		9.20
17		0.0000	3.731	H: 5.84	2563	BV		10.00
18		0.0000	3.986		2049	VV		11.30
19		0.0000	4.455		674	VV	?	9.80
20		0.0000	4.787		1332	VV	?	19.10
21		0.0000	5.072		531	VV	?	11.90
22		0.0000	5.554		1025	VV	?	16.35
23	A ENDOSUL	0.0014	5.846	0.066	435	VB	?	9.70
24		0.0000	6.588		143	BV		16.00
25	DIELDRIN	0.0024	7.431	0.321	587	VB	?	16.75
26	ENDRIN	0.0015	8.538	-0.092	252	BB		19.75
27		0.0000	12.337		101	BB	?	30.35
28	ENDO SUL	0.0020	17.373	0.093	110	BB		37.50
TOTALS:		0.0379		0.348	370044			

DETECTED PKS: 34 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -114

RACK: 1 VIAL: 13 INJ: 1

SAVED FILE: P1254

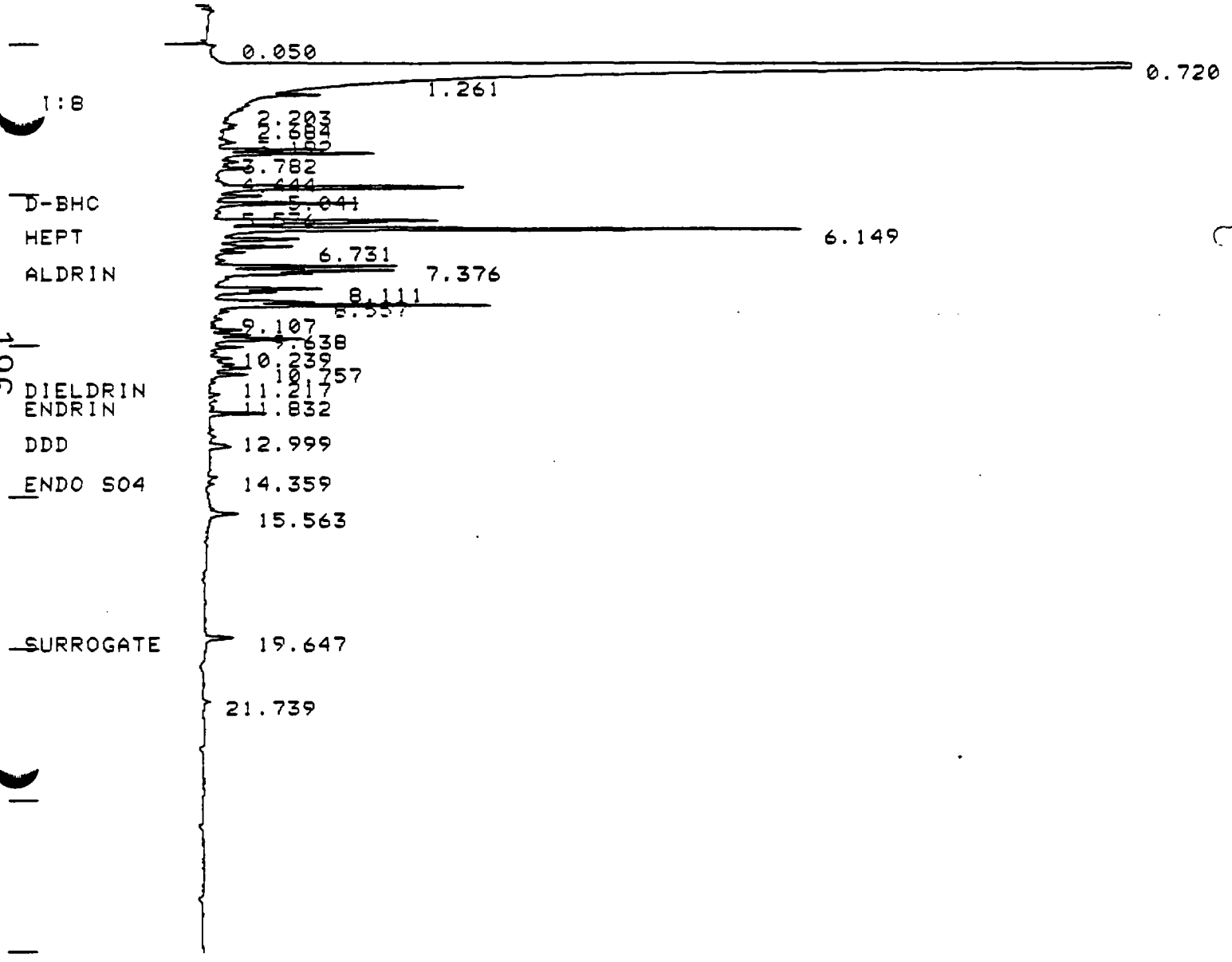
NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale, calif. p/n 03-906362-00

TITLE: RUN# 27 08-07 5:18 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090507 METHOD: 2A PP-1

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



196

1/100

TITLE: RUN# 9 08-07 19:26 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090507 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.050		2547	0.01	BB	?	3.00
2		0.0000	0.720		1052180	0.09	BV		6.15
3		0.0000	1.261		90391	0.16	VV	?	31.85
4		0.0000	1.702		33274	0.22	VV	?	7.55
5		0.0000	2.040		9309	0.26	VV	?	3.20
6		0.0000	2.203		10522	0.28	VV	?	3.05
7		0.0000	2.684		7080	0.34	VV	?	6.00
8		0.0000	2.792		3480	0.36	VV	?	5.15
9		0.0000	2.960		3472	0.38	VV	?	10.25
10		0.0000	3.192		1651	0.41	VV	?	4.30
11		0.0000	3.270		4211	0.42	VV	?	5.05
12		0.0000	3.507		13911	0.45	[illegible]		3.55
13	--BH:	0.0052	3.642	-0.053	22454	0.47	[illegible]		3.70

varian /sunnyvale, calif p n 03 906362 0.

(1/100)

TITLE: RUN# 9 08-07 19:26 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090507 METHOD: 6B P

PK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.050		2547	0.01	BB	?	3.00
2		0.0000	0.720		1052180	0.09	BV		6.15
3		0.0000	1.261		90391	0.16	VV	?	31.85
4		0.0000	1.702		33274	0.22	VV	?	7.55
5		0.0000	2.040		9309	0.26	VV	?	3.20
6		0.0000	2.203		10522	0.28	VV	?	3.05
7		0.0000	2.684		7080	0.34	VV	?	6.00
8		0.0000	2.792		3480	0.36	VV	?	5.15
9		0.0000	2.960		3472	0.38	VV	?	10.25
10		0.0000	3.192		1651	0.41	VV	?	4.30
11		0.0000	3.270		4211	0.42	VV	?	5.05
12		0.0000	3.507		13911	0.45	VV		3.55
13	A-BHC	0.0052	3.642	-0.058	22654	0.47	VV		3.70
14		0.0000	3.782		1417	0.49	VV	?	
15		0.0000	3.917		4324	0.50	VV		5.20
16		0.0000	4.033		1931	0.52	VV	?	3.20
17	B-BHC	0.0046	4.135	-0.215	6206	0.53	VV	?	2.50
18	G-BHC	0.0003	4.444	-0.066	1195	0.57	VV	?	5.60
19		0.0000	4.639		2356	0.60	VV	?	8.70
20		0.0000	4.749		56940	0.61	VV		6.70
21		0.0000	5.041		8404	0.65	VV		4.05
22	D-BHC	0.0068	5.291	0.091	22326	0.68	VV		3.90
23		0.0000	5.856		28864	0.75	VV	?	3.50
24		0.0000	5.930		23779	0.76	VV	?	4.75
25		0.0000	6.149		102243	0.79	VV		4.70
26		0.0000	6.483		16674	0.83	VV		5.20
27	HEPT	0.0059	6.731	0.071	13634	0.86	VV		4.10
28		0.0000	6.906		5461	0.89	VV		3.95
29		0.0000	7.180		2669	0.92	VV		4.05
30		0.0000	7.376		25306	0.95	VV		3.90
31		0.0000	7.523		25193	0.97	VV		4.05
32		0.0000	7.620		15611	0.98	VV	?	5.10
33	ALDRIN	0.0014	7.788	-0.042	4762	1.00	VV	?	9.10
34		0.0000	8.111		15873	1.04	VV		4.10
35		0.0000	8.225		11332	1.06	VV	?	5.05
36		0.0000	8.557		18605	1.10	VV		5.80
37		0.0000	8.665		40936	1.11	VV		3.65
38		0.0000	8.860		1214	1.14	T	?	5.20
39		0.0000	9.107		1138	1.17	T		3.75
40	HEPT EP	0.0017	9.473	0.083	4375	1.22	VV		4.10
41		0.0000	9.638		5989	1.24	VV		4.25
42		0.0000	9.786		17141	1.26	VV		5.25
43		0.0000	10.047		4727	1.29	VV		4.00
44		0.0000	10.425		3063	1.34	VV		3.95
45		0.0000	10.533		1457	1.35	VV	?	4.00
46		0.0000	10.629		4045	1.37	VV		5.65
47	A ENDO	0.0024	10.757	-0.013	6289	1.38	VV		4.35
48		0.0000	10.961		6733	1.41	VV		4.25
49		0.0000	11.613		1462	1.49	BV		3.85
50	DIELDRIN	0.0006	11.832	-0.018	1476	1.52	VV		7.15
51	DDE	0.0004	12.094	-0.036	1138	1.55	VV	?	11.65
52		0.0000	12.242		8387	1.57	VB		4.10
53	B ENDO	0.0005	12.999	-0.141	1220	1.67	BV		7.90
54		0.0000	13.352		5811	1.71	VB		8.15
55	END ALD	0.0011	14.359	0.349	2044	1.84	BV		4.45
56	ENDO SO4	0.0006	14.582	-0.458	1257	1.87	VB		4.65
57	DDT	0.0035	15.563	0.073	5969	2.00	BB		5.00
58	SURROGATE	0.0027	19.647	-0.103	6134	2.52	BB		5.75
59		0.0000	21.739		1228	2.79	BB		4.90
TOTALS:		0.0377		-0.483	1803020				

DETECTED PKS: 63 REJECTED PKS: 4

DILUTION: 1.00000 MULTIPLIER: 1.00000

SPB-5

an /sunnyvale,calif p/n 03 906362 00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-08

15091745

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/15/85

Date Analyzed: 10/21/85

Conc/Dil Factor: 5

CAS Number		ug/L ~~or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	2.2
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

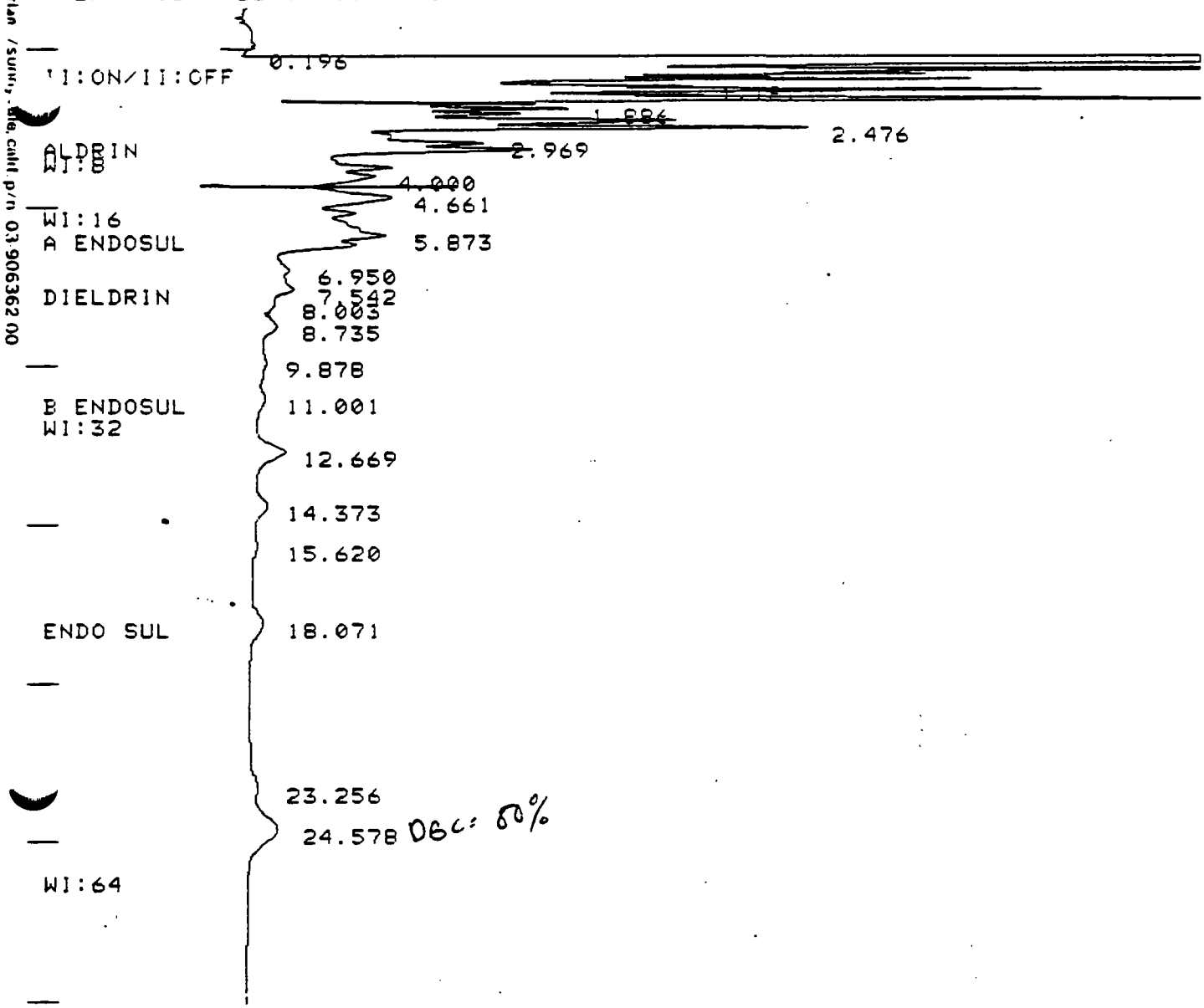
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



50

100µl/1ml

08-08

TITLE: RUN # 20 3:04 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091745 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.290		126853	VB		5.90
2		0.0000	0.449		8009	BB		1.35
3		0.0000	0.652		51724	BV		2.45
4		0.0000	0.792		4891	VV		2.45
5		0.0000	0.871		2913	VV		2.00
6		0.0000	0.958		6383	VB		2.40
7		0.0000	1.181		3017	BV	?	4.00
8		0.0000	1.285		8475	VV		5.45
9		0.0000	1.458		3610	VV	?	4.10
10	2-3-1	0.0084	1.596	0.05e	11423	VV	?	6.75
11		0.0000	1.886		2202	VV		4.00
12	3-3-1	0.001[illegible]	2.040	0.0[illegible]	1651	VV		4.65

100µl/1ml

08-08

TITLE: RUN # 20 3:04 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091745 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.290		126853	VB		5.90
2		0.0000	0.449		8009	BB		1.35
3		0.0000	0.652		51724	BV		2.45
4		0.0000	0.792		4891	VV		2.45
5		0.0000	0.871		2913	VV		2.00
6		0.0000	0.958		6383	VB		2.40
7		0.0000	1.181		3017	BV	?	4.00
8		0.0000	1.285		8475	VV		5.45
9		0.0000	1.458		3610	VV	?	4.10
10	A-BHC	0.0084	1.596	0.056	11423	VV	?	6.75
11		0.0000	1.886		2202	VV		4.00
12	G-BHC	0.0017	2.040	0.060	1651	VV		4.65
13	B-BHC	0.0131	2.245	-0.085	4213	VV		9.10
14		0.0000	2.476		6460	VV		5.30
15		0.0000	2.713		401	VV	?	6.80
16	D-BHC	0.0007	2.725	0.005	398	VV	?	
17	ALDRIN	0.0033	2.969	-0.021	1991	VV	?	10.15
18		0.0000	3.168		2836	VB	?	8.50
19		0.0000	3.530		132	BV	?	5.90
20		0.0000	3.725		1012	VV		8.85
21		0.0000	4.000		834	VV		14.65
22		0.0000	4.661		1248	VV	?	20.05
23		0.0000	5.166		827	VV		12.30
24	A ENDOSUL	0.0050	5.873	-0.087	1439	VV	?	25.75
25		0.0000	6.153		1069	VV	?	12.50
26		0.0000	6.950		202	VV	?	19.40
27	DIELDRIN	0.0014	7.542	0.142	323	VV	?	21.75
28	ENDRIN	0.0010	8.735	-0.295	171	VB		20.40
29	B ENDOSUL	0.0008	11.001	-0.179	103	VB		25.30
30		0.0000	12.669		427	BV		30.25
31	END ALD	0.0040	14.373	-0.637	201	VV		30.30
32	ENDO SUL	0.0027	18.071	-0.509	174	BB		38.95
33	DBC	0.0080	24.578	-0.952	417	VB		56.50
TOTALS:		0.0501		-2.502	256029			

DETECTED PKS: 38 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 74

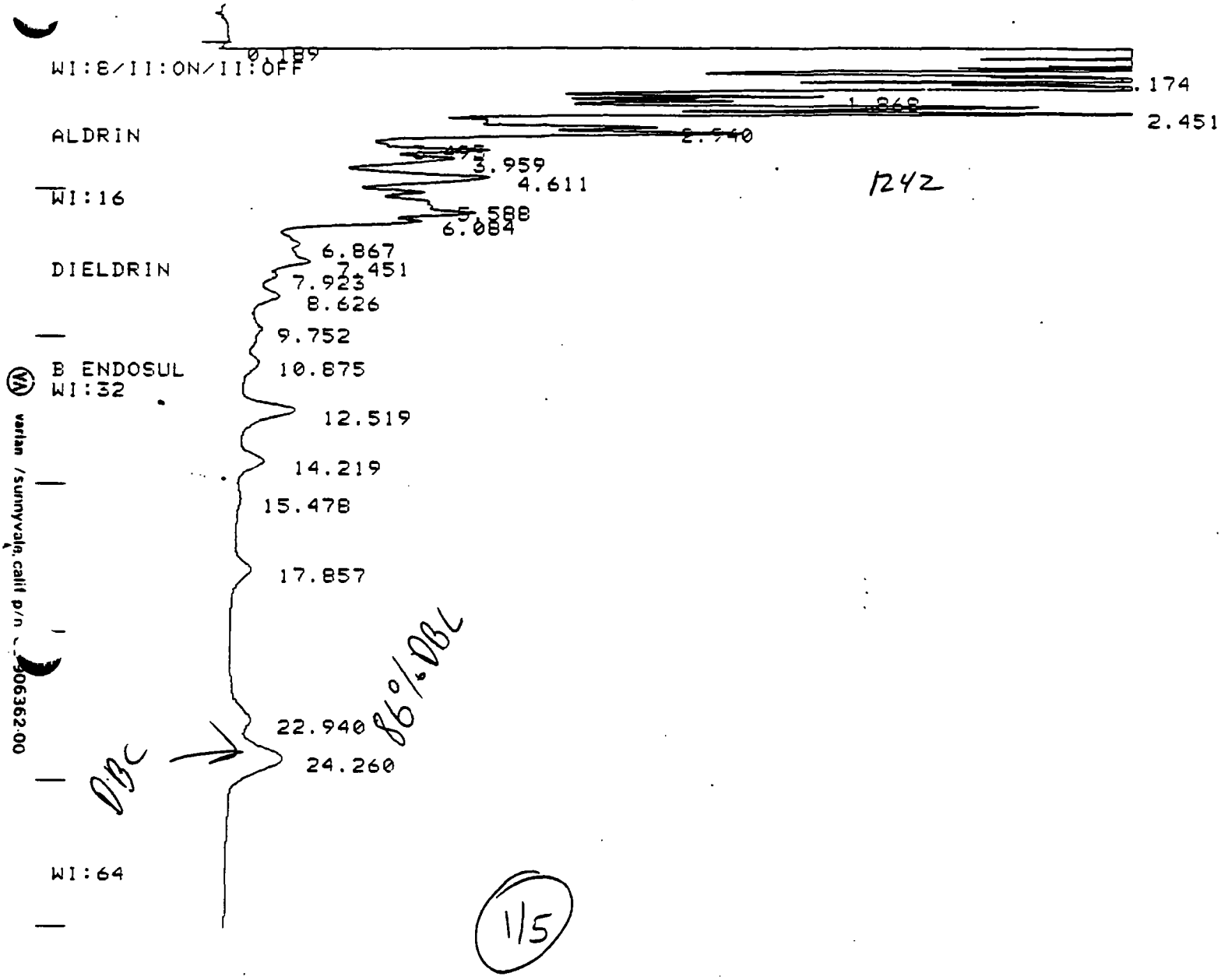
RACK: 2 VIAL: 5 INJ: 1

SAVED FILE: P1927

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale, calif. p/n 03 906362 00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



08-08

TITLE: RUN # 20 20:14 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091745 METHOD: 2A PP-1

PEAK NO.	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.293		132667	VB	6.65
2		0.0000	0.649		86587	BV	2.55
3		0.0000	0.787		12311	VV	2.80
4		0.0000	0.942		9195	VV	1.15
5		0.0000	0.951		23146	VB	2.50
6		0.0000	1.174		6712	BV	4.10
7		0.0000	1.275		17991	VV	5.45
8		0.0000	1.446		7450	VV	3.50
9		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]

1242 = 3.61 Ht. × 0.1202 µg/mL Ht × 1 mL × 5 = 2.2 µg

08-08

TITLE: RUN # 20 20:14 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091745 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.293		132667	VB	6.65
2		0.0000	0.649		86587	BV	2.55
3		0.0000	0.787		12311	VV	2.80
4		0.0000	0.862		8106	VV	2.15
5		0.0000	0.951		23146	VB	2.50
6		0.0000	1.174		6712	BV ?	4.10
7		0.0000	1.275		17991	VV	5.45
8		0.0000	1.446		7450	VV ?	3.90
9	A-BHC	0.0174	1.581	0.041	23509	VV	6.40
10		0.0000	1.868		4346	VV	3.80
11	G-BHC	0.0034	2.022	0.042	3240	VV	4.50
12	B-BHC	0.0270	2.227	-0.103	8656	VV	8.70
13		0.0000	2.451		13471	VV	5.15
14		0.0000	2.677		772	VV ?	7.80
15	D-BHC	0.0014	~~2.750~~	0.030	~~858~~	VV ?	1.20
16	ALDRIN	0.0064	2.940	-0.050	3893	VV ?	8.50
17		0.0000	3.137		5554	VV ?	5.55
18		0.0000	3.683	H= 3.61	1984	VV	8.60
19		0.0000	3.959		1553	VV	14.10
20		0.0000	4.611		2429	VV ?	19.60
21		0.0000	5.109		1606	VV	12.70
22		0.0000	5.438		1864	VV ?	19.50
23		0.0000	5.588		2003	VV ?	9.00
24		0.0000	5.806		2799	VV ?	17.70
25	A ENDOSUL	0.0071	6.084	0.124	2072	VV ?	12.45
26		0.0000	6.867		379	VV	18.80
27	DIELDRIN	0.0028	7.451	0.051	621	VV	20.40
28		0.0000	7.923		165	VV	7.90
29	ENDRIN	0.0019	8.626	-0.404	326	VB	19.85
30		0.0000	9.752		156	BV	23.00
31	B ENDOSUL	0.0015	10.875	-0.305	204	VB	25.05
32		0.0000	12.519		833	BV	30.30
33		0.0000	14.219		398	VV	29.75
34	ENDO SUL	0.0042	17.857	-0.723	267	BB	37.85
35		0.0000	22.940		354	BV ?	56.90
36	DBC	0.0171	24.260	-1.270	892	VB ?	58.60
TOTALS:		0.0902		-2.567	380174		

DETECTED PKS: 40 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: -27

RACK: 2 VIAL: 5 INJ: 1

SAVED FILE: P1965

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

107

varian /sunnyvale, calif p/n 03 906362 00

CHART SPEED: 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK

200ul/1ml

TITLE: RUN# 14 08-08 3:43 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091745 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.719		4247810	0.08	BV		7.90
2		0.0000	1.701		256615	0.19	VV		4.85
3		0.0000	1.780		137557	0.20	VV	?	
4		0.0000	1.962		139091	0.22	VV	?	2.70
5		0.0000	2.197		46570	0.24	VB	?	2.70
6		0.0000	2.687		13349	0.30	BB	?	4.40
7		0.0000	2.959		10965	0.33	BB		3.60
8		0.0000	3.292		17442	0.36	BV		5.05
9		0.0000	3.395		2551	0.38	T	?	10.70
10		0.0000	3.675		24382	0.41	VB		3.80
11		0.0000	3.966		27976	0.44	BB		3.75
12	A-BHC	0.0234	4.166	-0.084	6699	0.46	BB		3.46
13	B-BHC	0.1656	4.854	-0.126	16758	0.54	BB	?	6.65
14	G-BHC	0.0284	5.420	0.290	7869	0.60	BB		3.50
15		0.0000	5.760		5440	0.64	BV		4.75
16	D-BHC	0.0284	6.042	0.132	7594	0.67	VV	?	3.80
17		0.0000	6.130		12199	0.68	VV	?	4.65
18		0.0000	6.364		69581	0.70	VV		6.50
19		0.0000	6.732		7107	0.74	VV	?	5.10
20		0.0000	6.786		5050	0.75	VV	?	
21		0.0000	7.014		15158	0.78	VB	?	5.20
22	HEPT	0.0408	7.749	0.179	9452	0.86	BV		4.35
23		0.0000	7.918		6529	0.88	VV	?	4.80
24		0.0000	8.020		9815	0.89	VB	?	6.85
25		0.0000	8.600		10721	0.95	BV		4.00
26		0.0000	8.743		12356	0.97	VV	?	7.30
27	ALDRIN	0.0427	9.039	0.119	14392	1.00	VV	?	4.10
28		0.0000	9.196		137361	1.02	VB		3.95
29		0.0000	9.841		16365	1.09	BV		5.50
30		0.0000	10.188		3297	1.13	VV	?	3.35
31		0.0000	10.378		5729	1.15	VV	?	3.80
32	HEPT EP	0.0490	10.551	-0.199	12981	1.17	VB		7.15
33		0.0000	11.090		5917	1.23	BB		4.30
34		0.0000	11.611		18920	1.28	BV		5.50
35	A ENDO	0.0299	11.695	-0.725	10155	1.29	VB	?	25.40
36	DIELDRIN	0.0325	13.556	-0.164	8964	1.50	BB		5.65
37		0.0000	14.523		11295	1.61	BV		5.90
38	ENDRIN	0.0275	14.743	-0.047	6744	1.63	T	?	39.70
39	END ALD	0.0478	16.495	0.095	10178	1.83	BB		5.85
40	ENDO SO4	0.0390	17.810	0.130	10830	1.97	BB		4.20
41	SURROGATE	0.1314	23.047	-0.523	33893	2.55	BB		6.30
42		0.0000	25.812		17625	2.86	BB		6.20
TOTALS:		0.6864		-0.923	5451280				

DETECTED PKS: 42 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -259

K: 1 VIAL: 14 INJ: 1

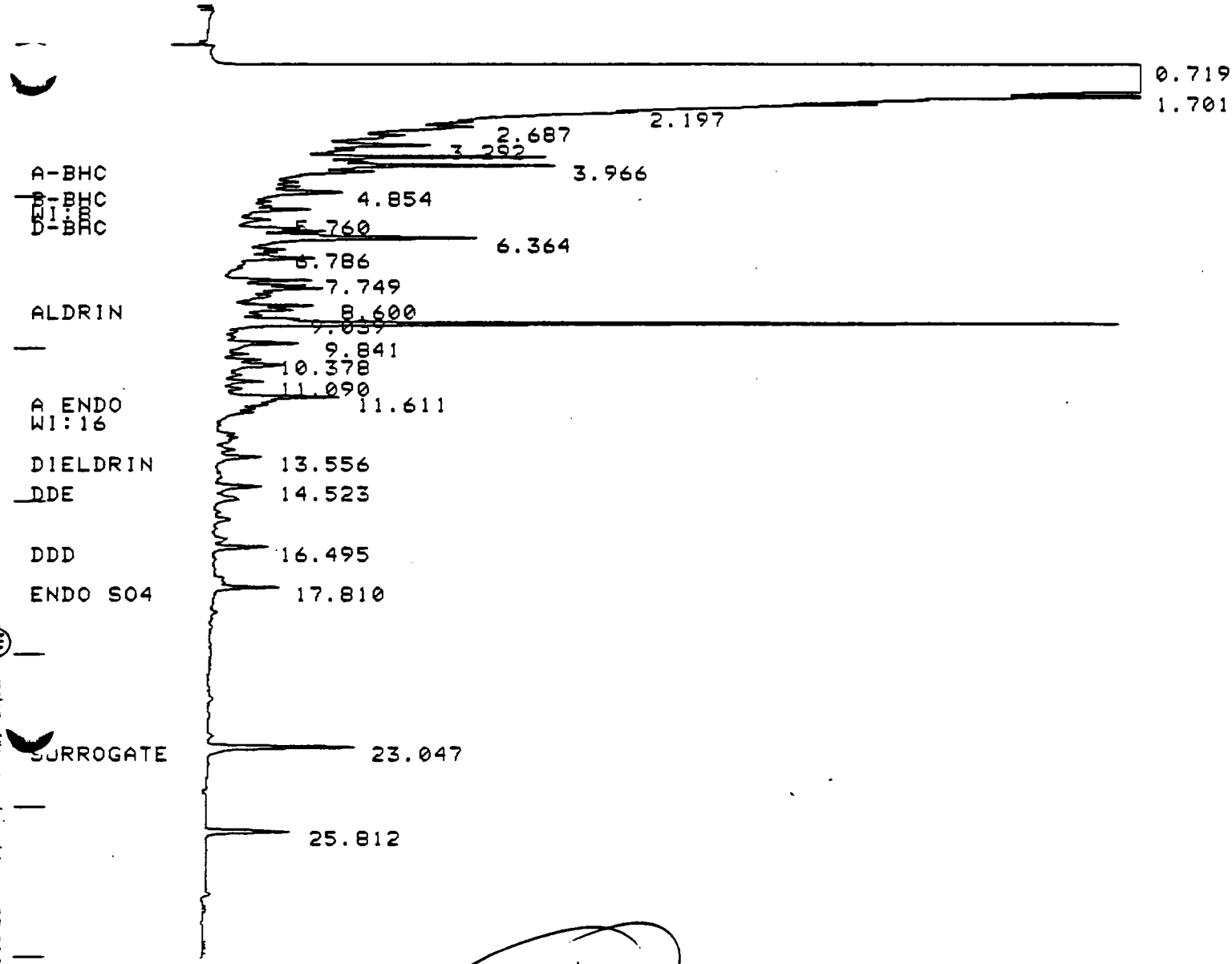
SAVED FILE: P660

NOTES:

GC#: SPB-5
2 UL INJECTED
0.32MM ID: 30M

167

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



200ul/1ml

TITLE: RUN# 14 08-08 3:43 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091745 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.719		4247810	0.08	BV		7.90
2		0.0000	1.701		256615	0.19	VV		4.85
3		0.0000	1.780		137557	0.20	VV	?	
4		0.0000	1.962		139091	0.22	VV	?	2.70
5		0.0000	2.197		46570	0.24	VB	?	2.70
6		0.0000	2.687		13349	0.30	BB	?	4.40
7		0.0000	2.959		10965	0.33	BB		3.60
8		0.0000	3.292		17442	0.36	BV		5.05
9		0.0000	3.395		2551	0.38	T	?	10.70
10		0.0000	3.675		24362	0.41	B		3.80
11		0.0000	3.966		37976	0.44	BB		3.75

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-09

15091786

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/15/85

Date Analyzed: 10/22/85

Conc/Dil Factor: 1

CAS Number		ug/l or ug/Kg (Circle One) PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

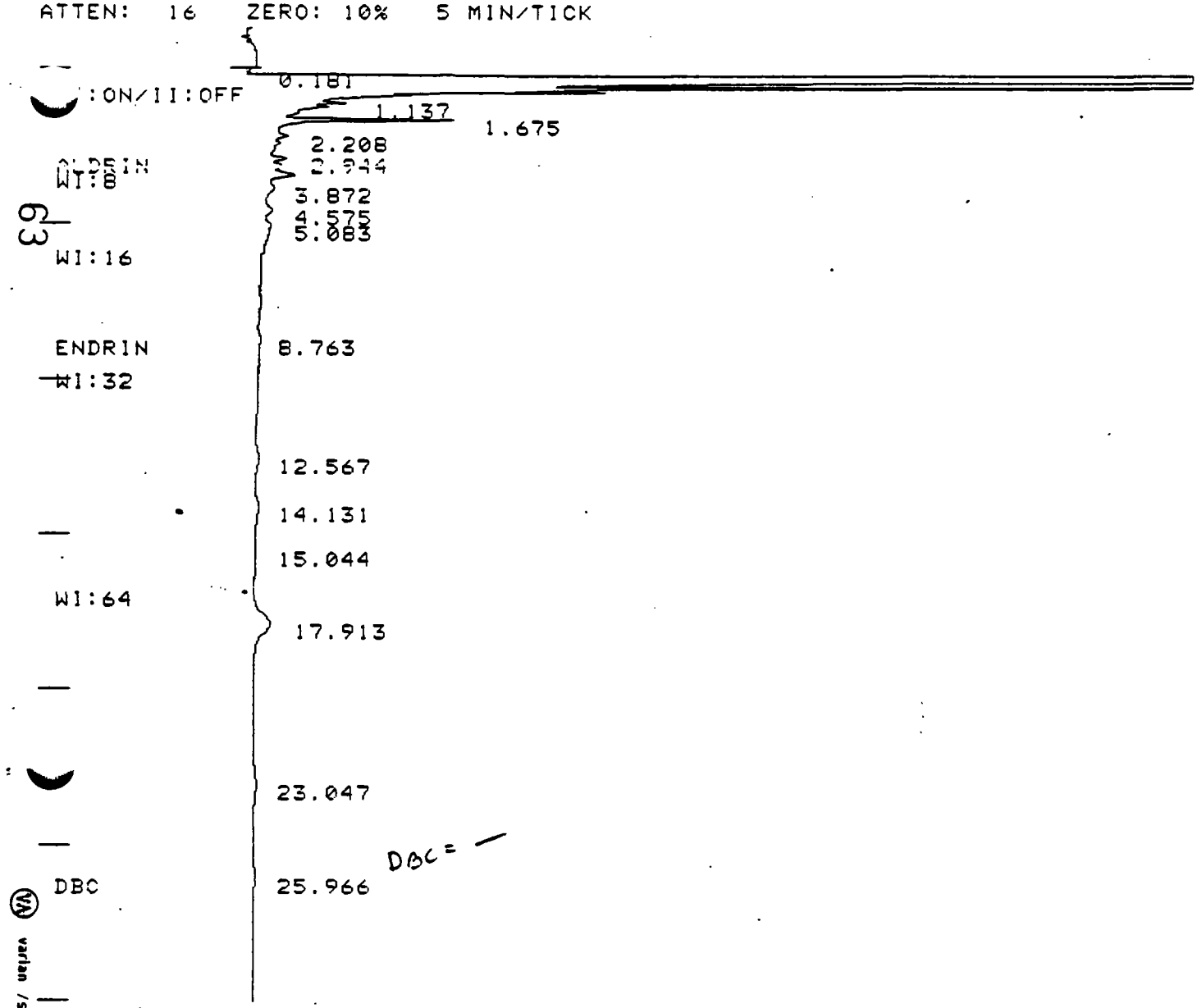
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100µl/1ml

08-09

TITLE: RUN # 29 7:58 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091786 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.287		128562	VB	5.90
2		0.0000	0.642		23171	BV	2.20
3		0.0000	0.782		2657	VV	1.55
4		0.0000	0.867		431	VB	1.70
5		0.0000	1.137		444	BV	2.75
6		0.0000	1.262		321	VB	3.10
7		0.0000	1.675		2572	VB	4.25
8		0.0000	2.208		187	BV	5.75
9	ALDRIN	0.0004	2.944	-0.046	235	VV	7.40
10		0.0000	3.176		205	VV	11.00
11		0.0000	3.482		153	VV	5.45

varian /sunnyvale,calif p/n 03-906362-00

23.047

DBC 25.966 DBC = —

100µl/1ml

08-09

TITLE: RUN # 29 7:58 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091786 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.287		128562	VB	5.90
2		0.0000	0.642		23171	BV	2.20
3		0.0000	0.782		2657	VV	1.55
4		0.0000	0.867		431	VB	1.70
5		0.0000	1.137		444	BV	2.75
6		0.0000	1.262		321	VB	3.10
7		0.0000	1.675		2572	VB	4.25
8		0.0000	2.208		187	BV	5.75
9	ALDRIN	0.0004	2.944	-0.046	238	VV	? 7.40
10		0.0000	3.176		209	VV	? 11.00
11		0.0000	3.462		398	VV	9.45
12		0.0000	3.872		118	VB	11.90
13		0.0000	4.575		114	BV	12.85
14		0.0000	5.083		105	VV	16.80
15	ENDO SUL	0.0037	17.913	-0.667	237	BB	42.40
TOTALS:		0.0041		-0.713	159764		

DETECTED PKS: 26 REJECTED PKS: 11

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 41

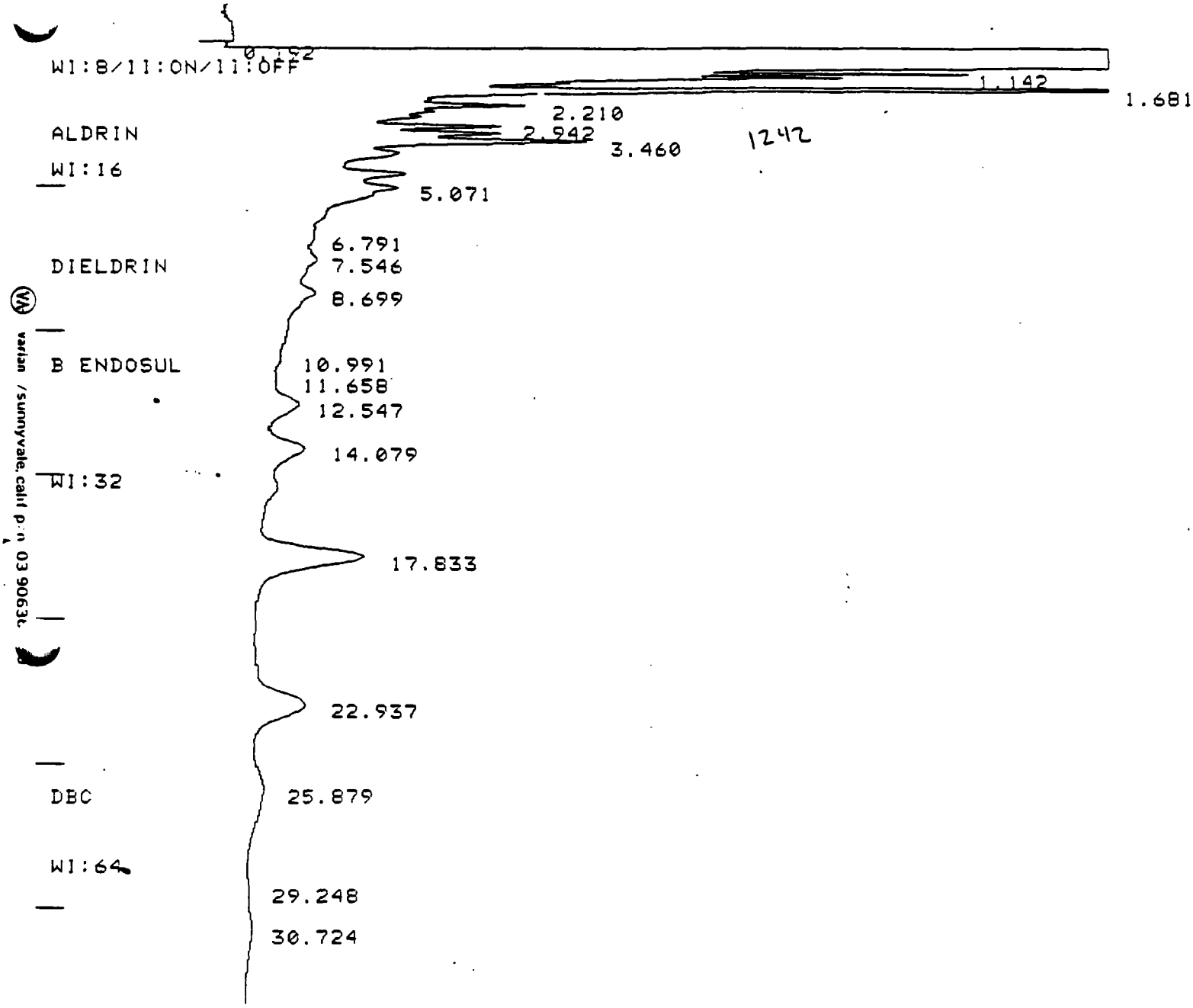
RACK: 2 VIAL: 14 INJ: 1

SAVED FILE: P1936

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale.calif p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN = 30 08-09 1:47 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091786 METHOD: 2A PF-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.269		130340	VV	2.40
2		0.0000	0.345		113370	VB	7.40
3		0.0000	0.647		124734	BV	1.45
4		0.0000	0.733		[illegible]	[illegible]	

WI:64

29.248

30.724

TITLE: RUN # 30 08-09 1:47 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091786 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.269		130340	VV	?	2.40
2		0.0000	0.345		113370	VB	?	7.40
3		0.0000	0.647		124734	BV	?	1.45
4		0.0000	0.733		17496	VV	?	
5		0.0000	0.784		24998	VV	?	1.05
6		0.0000	0.872		4749	VB		1.90
7		0.0000	1.142		4702	BV		3.00
8		0.0000	1.267		3638	VV		3.35
9		0.0000	1.454		598	VV		2.20
10		0.0000	1.681		29681	VV		4.45
11		0.0000	2.210		1830	VV		5.90
12	B-BHC	0.0017	2.414	0.084	560	VV		3.90
13	D-BHC	0.0009	2.599	-0.121	530	VV		4.10
14	ALDRIN	0.0034	2.942	-0.048	2091	VV		7.50
15		0.0000	3.182		2171	VV	?	9.00
16		0.0000	3.460		3689	VV		10.05
17		0.0000	3.841		735	VB		12.25
18		0.0000	4.576		1057	BV		14.35
19		0.0000	5.071		1017	VV	?	17.30
20		0.0000	5.303		669	VB	?	16.70
21	DIELDRIN	0.0008	7.546	0.146	188	BV		17.55
22	ENDRIN	0.0019	8.699	-0.331	323	VB		20.60
23		0.0000	12.547		418	VV	?	35.65
24		0.0000	14.079		601	VV	?	39.60
25	END ALD	0.0042	15.406	0.396	216	VV		37.05
26	ENDO SUL	0.0267	17.833	-0.747	1704	VB		42.45
27		0.0000	22.937		867	BV		55.05
28	DBC	0.0044	25.879	0.349	229	VB	?	88.35
29		0.0000	30.724		106	VB		78.70
TOTALS:		0.0440		-0.272	473307			

DETECTED PKS: 35 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 12

RACK: 2 VIAL: 14 INJ: 1

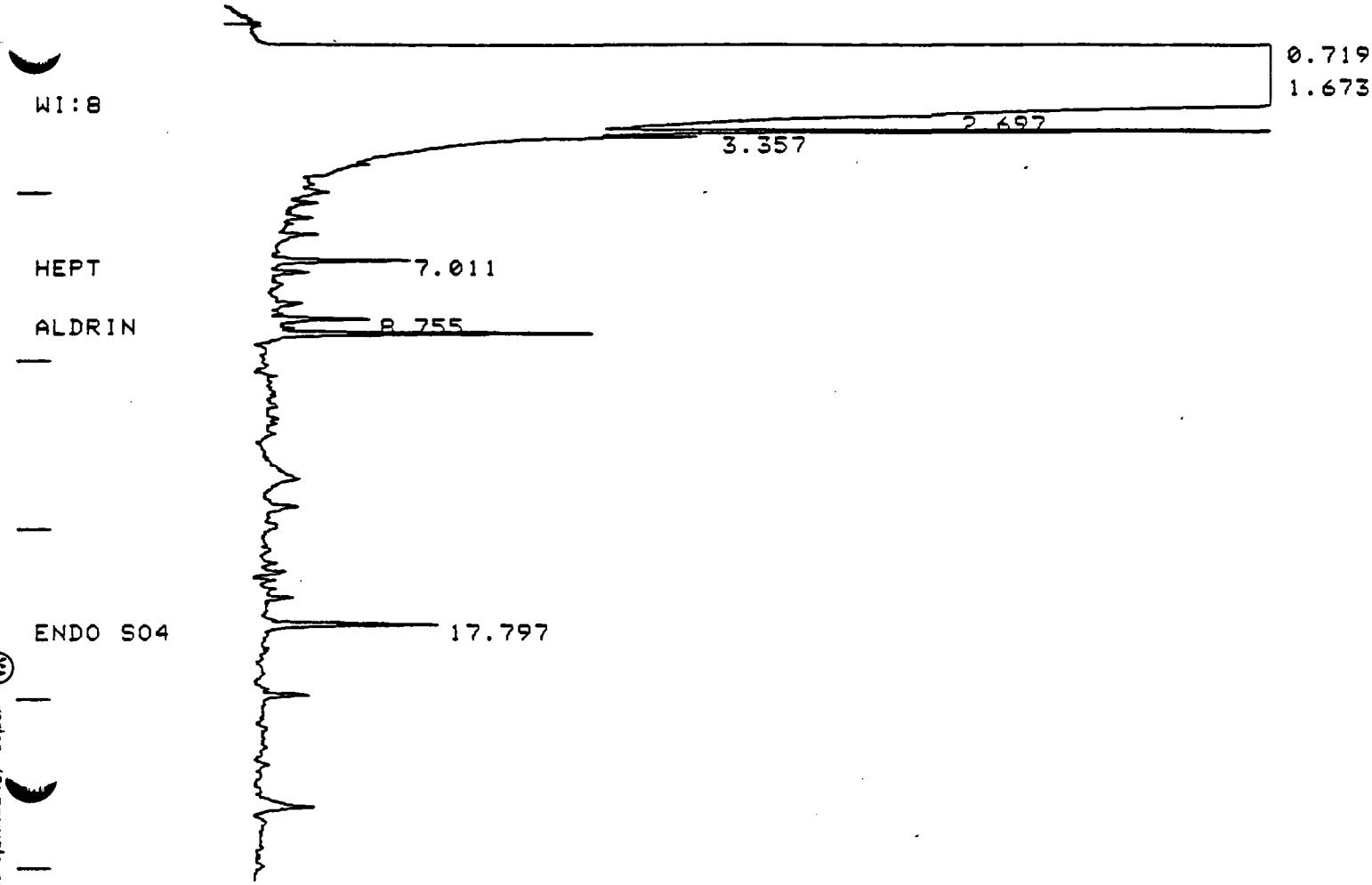
SAVED FILE: P1975

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC =2

122

156

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



GC#6, SPB-5, 2 µl injected, 30M, 0.32mm ID

DAD 12/10/85

TITLE: RUN# 7 08-09 22:35 22 OCT 85

CHANNEL NO: 1 SAMPLE: 15091786 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.719		10845200	0.08	BV		32.70
2		0.0000	1.673		1517970	0.19	VV	?	17.60
3		0.0000	1.960		550562	0.22	VV	?	
4		0.0000	2.185		937139	0.25	VV	?	42.30
5		0.0000	2.697		269212	0.31	VV	?	
6		0.0000	3.185		164892	0.36	VV		4.45
7		0.0000	3.357		76015	0.38	VB	?	2.80
8	HEPT	0.0903	7.011	-0.559	20906	0.80	BB	?	3.00
9	ALDRIN	0.0438	8.755	-0.165	14773	1.00	BB		4.95
10		0.0000	9.185		42612	1.05	BB		4.20
11	ENDO SO4	0.1161	17.797	0.117	32217	2.03	BB		5.40
TOTALS:		0.2502		-0.607	14471500				

DETECTED PKS: 11 REJECTED PKS: 0

varian / sunnyvale, calif p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-10 15090508

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/13/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 10

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	4.8
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

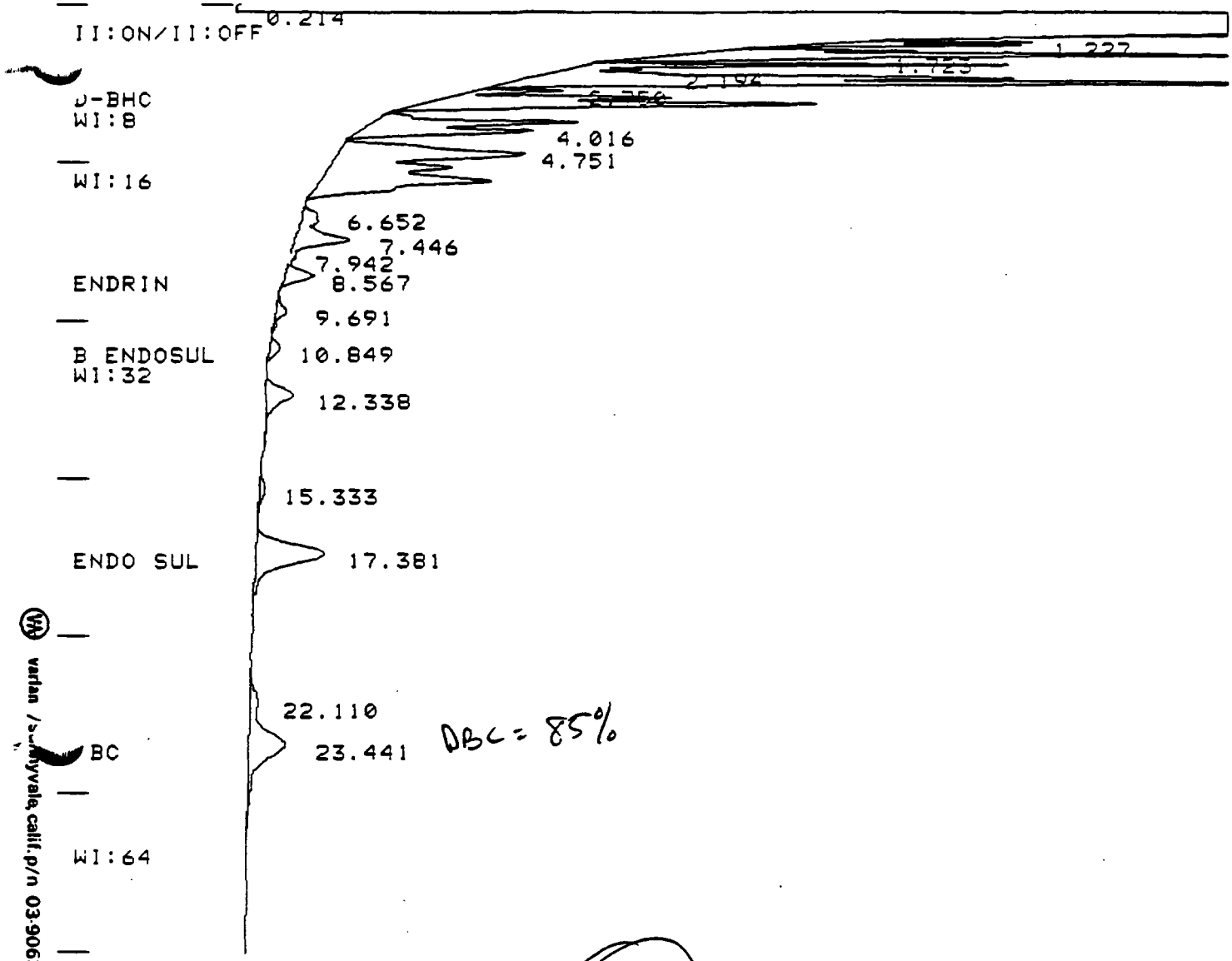
W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4

96

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/10

10 KS
08-~~07~~

TITLE: RUN # 29 6:27 11 NOV 85

CHANNEL NO: 2 SAMPLE: ~~15090506~~ 15090508 KS METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		153957	VV	?	2.00
2		0.0000	0.357		143776	VB	?	5.30
3		0.0000	0.688		28518	BB	?	1.40
4		0.0000	0.822		3038	BB		1.35
5		0.0000	1.004		1716	BB		1.80
6		0.0000	1.227		2787	BV		2.90
7		0.0000	1.321		3422	VV		3.10
8		0.0000	1.504		3133	VV		4.55
9	A-BHC	0.0074	1.639	0.019	9661	VV		5.95
10		0.0000	1.723		3447	VV	?	2.45
11		0.0000	1.933		6367	VV		4.35
12	G-BHC	0.0012	2.074	0.024	1159	VV		3.55
13		[illegible]	[illegible]		[illegible]			

varian / sunnyvale, calif. p/n 03-906362-00

1242 = 7.11 Ht. x ~~0.066~~ µg/mL Ht. x 1 ml x 10 = ~~4.7~~ µg
0.068 µg/mL KS
4.8 KS

Factor = 0.068
peak at 4.40 min
missing in Sample

08-~~07~~

TITLE: RUN # 29 6:27 11 NOV 85

CHANNEL NO: 2 SAMPLE: ~~15090506~~ 15090508 KS METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		153957	VV	?	2.00
2		0.0000	0.357		143776	VB	?	5.30
3		0.0000	0.688		28518	BB	?	1.40
4		0.0000	0.822		3038	BB		1.35
5		0.0000	1.004		1716	BB		1.80
6		0.0000	1.227		2787	BV		2.90
7		0.0000	1.321		3422	VV		3.10
8		0.0000	1.504		3133	VV		4.55
9	A-BHC	0.0074	~~1.639~~	0.019	~~9661~~	VV		5.95
10		0.0000	1.723		3447	VV	?	2.45
11		0.0000	1.933		6367	VV		4.35
12	G-BHC	0.0012	~~2.074~~	0.024	~~1159~~	VV		3.55
13		0.0000	2.194		1737	VV	?	4.40
14	B-BHC	0.0218	2.367	0.007	7381	VV	?	7.60
15		0.0000	2.512		19023	VV	?	3.35
16	D-BHC	0.0024	2.750	0.010	1368	VV		5.80
17	ALDRIN	0.0052	2.974	-0.036	3454	VV	?	7.10
18		0.0000	3.178		6016	VV	?	9.15
19		0.0000	~~3.544~~	H=7.11	~~462~~	VV	?	7.80
20		0.0000	3.747		3096	VV		9.70
21		0.0000	4.016		2588	VV		11.45
22		0.0000	4.751		2823	VV	?	20.80
23		0.0000	5.153		1865	VV	?	14.40
24	A ENDOSUL	0.0084	5.581	-0.199	2565	VV		20.15
25		0.0000	6.652		227	VV	?	16.00
26	DIELDRIN	0.0010	6.825	-0.285	255	VV	?	24.90
27		0.0000	7.446		831	VV		18.00
28	ENDRIN	0.0025	8.567	-0.063	428	VB		18.95
29		0.0000	9.691		155	BV		18.80
30	B ENDOSUL	0.0011	10.849	0.249	165	VB		24.20
31		0.0000	12.338		401	BB		31.10
32	ENDO SUL	0.0188	17.381	0.101	1038	VB		41.55
33		0.0000	22.110		105	BV	?	49.80
34	DBC	0.0085	23.441	0.391	534	VB		53.80
TOTALS:		0.0783		0.218	417498			

DETECTED PKS: 37 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -143

RACK: 1 VIAL: 15 INJ: 1

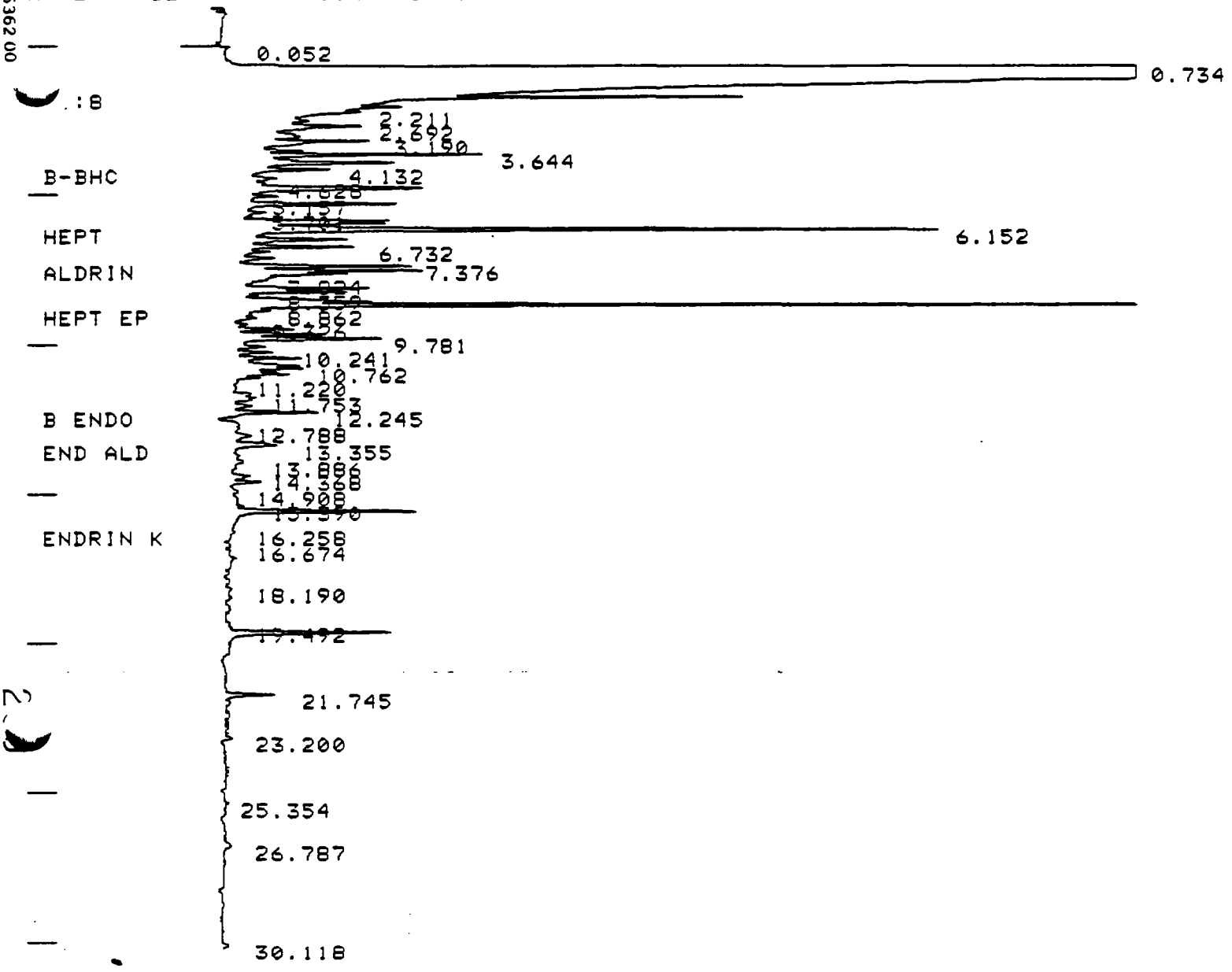
SAVED FILE: P1256

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale,calif.p/n 03-906362

TITLE: RUN # 29 08-~~07~~ 10 KS 15090508 6:27 11 NOV 85

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



1/10

TITLE: RUN# 11 08-10 20:40 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090508 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		2601	0.01	BB	?	3.10
2		0.0000	0.734		2469570	0.09	BV		7.40
3		0.0000	1.172		428224	0.15	VV	?	31.00
4		0.0000	1.707		107708	0.22	VV		4.85
5		0.0000	1.894		33236	0.24	VV	?	0.90
6		0.0000	2.044		46337	0.26	VV	?	5.20
7		0.0000	2.211		47401	0.28	VV	?	4.50
8		0.0000	2.512		23729	0.32	VV	?	4.80
9		0.0000	2.692		31738	0.34	VV	?	8.30
10		0.0000	2.768		14269	0.35	VV	?	
11		0.0000	2.956		10174	0.38		?	5.90

TITLE: RUN# 8 11 08-10 20:40 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090508 METHOD: 6B P

PEAK)	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		2601	0.01	BB	?	3.10
2		0.0000	0.734		2469570	0.09	BV		7.40
3		0.0000	1.172		428224	0.15	VV	?	31.00
4		0.0000	1.707		107708	0.22	VV		4.85
5		0.0000	1.894		33236	0.24	VV	?	0.90
6		0.0000	2.044		46337	0.26	VV	?	5.20
7		0.0000	2.211		47401	0.28	VV	?	4.50
8		0.0000	2.512		23729	0.32	VV	?	4.80
9		0.0000	2.692		31738	0.34	VV	?	8.30
10		0.0000	2.768		14269	0.35	VV	?	
11		0.0000	2.956		10174	0.38	VV	?	5.90
12		0.0000	3.058		18634	0.39	VV	?	7.80
13		0.0000	3.190		42818	0.41	VV	?	6.70
14		0.0000	3.511		13504	0.45	VV	?	5.50
15	A-BHC	0.0094	3.644	-0.056	40728	0.47	VV		3.95
16		0.0000	3.827		10214	0.49	VV	?	6.40
17		0.0000	3.922		37062	0.50	VV		5.60
18	B-BHC	0.0203	4.132	-0.218	27383	0.53	VV		6.00
19	G-BHC	0.0039	4.444	-0.066	14896	0.57	VV	?	10.90
20		0.0000	4.628		8736	0.59	VV	?	9.00
21		0.0000	4.753		54426	0.61	VV		7.25
22		0.0000	5.048		12725	0.64	VV		6.75
23	D-BHC	0.0009	5.157	-0.043	2933	0.66	VV	?	
24		0.0000	5.301		36467	0.68	VV		4.85
25		0.0000	5.590		8828	0.71	VV	?	6.00
26		0.0000	5.701		5026	0.73	VV	?	1.70
27		0.0000	5.861		22623	0.75	VV	?	4.00
28		0.0000	5.938		22266	0.76	VV	?	3.40
29		0.0000	6.152		140697	0.79	VV		4.65
30		0.0000	6.478		29663	0.83	VV		5.50
31	HEPT	0.0109	6.732	0.072	24934	0.86	VV		4.40
32		0.0000	6.907		12106	0.88	VV	?	7.75
33		0.0000	7.121		12807	0.91	VV		6.50
34		0.0000	7.376		31540	0.94	VV		4.35
35		0.0000	7.527		27641	0.96	VV		4.05
36		0.0000	7.627		21612	0.98	VV	?	6.25
37		0.0000	7.741		10827	0.99	VV	?	2.60
38	ALDRIN	0.0022	7.824	-0.006	7722	1.00	VV	?	
39		0.0000	7.930		4810	1.01	VV	?	
40		0.0000	8.115		22497	1.04	VV	?	2.70
41		0.0000	8.232		21259	1.05	VV		5.40
42		0.0000	8.359		5715	1.07	VV	?	3.10
43		0.0000	8.565		33555	1.10	VV	?	11.00
44		0.0000	8.668		158940	1.11	VV	?	2.05
45		0.0000	8.862		1547	1.13	T	?	8.95
46		0.0000	9.110		2357	1.16	T	?	5.30
47	HEPT EP	0.0006	9.326	-0.064	1453	1.19	T	?	6.50
48		0.0000	9.473		12679	1.21	VV		4.35
49		0.0000	9.640		16767	1.23	VV		4.45
50		0.0000	9.781		33925	1.25	VV		5.35
51		0.0000	10.053		11288	1.28	VV		5.95
52		0.0000	10.241		11324	1.31	VV		4.80
53		0.0000	10.429		13797	1.33	VV		4.10
54		0.0000	10.544		3932	1.35	VV	?	2.90
55		0.0000	10.671		16062	1.36	VV	?	6.80
56	A ENDO	0.0048	10.762	-0.008	12866	1.38	VV	?	4.10
57		0.0000	10.869		8102	1.39	VV	?	4.30
58		0.0000	10.964		11526	1.40	VV	?	4.40
59		0.0000	11.086		8112	1.42	VV	?	5.25
60		0.0000	11.220		5323	1.43	VV	?	2.40
61		0.0000	11.625		14666	1.49	VV	?	4.90
62		0.0000	11.753		6315	1.50	VV	?	4.80
63	DIELDRIN	0.0022	11.835	-0.015	5785	1.51	VV	?	2.00
64	DDE	0.0039	12.034	-0.096	10371	1.54	VV		7.30
65		0.0000	12.245		20665	1.57	VV		4.35
66	ENDRIN	0.0036	12.674	-0.026	7514	1.62	VV	?	13.70
67		0.0000	12.788		5876	1.63	VV	?	4.20
68	E ENDO	0.0055	13.034	-0.106	12540	1.67	VV	?	13.80
69		0.0000	13.355		18197	1.71	VV	?	5.10

02

Run#11
08-10
,50 90508

34		0.0000	7.376		31540	0.94	VV		4.35
35		0.0000	7.527		27641	0.96	VV		4.05
36		0.0000	7.627		21612	0.98	VV	?	6.25
37		0.0000	7.741		10827	0.99	VV	?	2.60
38	ALDRIN	0.0022	7.824	-0.006	7722	1.00	VV	?	
39		0.0000	7.930		4810	1.01	VV	?	
40		0.0000	8.115		22497	1.04	VV	?	2.70
41		0.0000	8.232		21259	1.05	VV		5.40
42		0.0000	8.359		5715	1.07	VV	?	3.10
43		0.0000	8.565		33555	1.10	VV	?	11.00
44		0.0000	8.668		158940	1.11	VV	?	2.05
45		0.0000	8.862		1547	1.13	T	?	8.95
46		0.0000	9.110		2357	1.16	T	?	5.30
47	HEPT EP	0.0006	9.326	-0.064	1453	1.19	T	?	6.50
48		0.0000	9.473		12679	1.21	VV		4.35
49		0.0000	9.640		16767	1.23	VV		4.45
50		0.0000	9.781		33925	1.25	VV		5.35
51		0.0000	10.053		11288	1.28	VV		5.95
52		0.0000	10.241		11324	1.31	VV		4.80
53		0.0000	10.429		13797	1.33	VV		4.10
54		0.0000	10.544		3932	1.35	VV	?	2.90
55		0.0000	10.671		16062	1.36	VV	?	6.80
56	A ENDO	0.0048	10.762	-0.008	12866	1.38	VV	?	4.10
57		0.0000	10.869		8102	1.39	VV	?	4.30
58		0.0000	10.964		11526	1.40	VV	?	4.40
59		0.0000	11.086		8112	1.42	VV	?	5.25
60		0.0000	11.220		5323	1.43	VV	?	2.40
61		0.0000	11.625		14666	1.49	VV	?	4.90
62		0.0000	11.753		6315	1.50	VV	?	4.80
63	DIELDRIN	0.0022	11.835	-0.015	5785	1.51	VV	?	2.00
64	DDE	0.0039	12.034	-0.096	10371	1.54	VV		7.30
65		0.0000	12.245		20665	1.57	VV		4.35
66	ENDRIN	0.0036	12.674	-0.026	7514	1.62	VV	?	13.70
67		0.0000	12.788		5876	1.63	VV	?	4.20
68	B ENDO	0.0055	13.034	-0.106	12540	1.67	VV	?	13.80
69		0.0000	13.355		18197	1.71	VV	?	5.10
70		0.0000	13.707		5577	1.75	VV	?	5.70
71	DDD	0.0034	13.886	-0.014	6479	1.77	VV	?	7.20
72	END ALD	0.0012	14.039	0.029	2373	1.79	VV	?	
73		0.0000	14.368		4343	1.84	VV	?	7.20
74		0.0000	14.449		1906	1.85	VV	?	1.30
75		0.0000	14.580		5076	1.86	VV		6.20
76		0.0000	14.908		1714	1.90	VV	?	13.00
77	ENDO SO4	0.0007	15.142	0.102	1397	1.93	VV	?	9.90
78		0.0000	15.390		1094	1.97	VV	?	5.30
79	DDT	0.0170	15.563	0.073	29352	1.99	VB		4.90
80	ENDRIN K	0.0004	16.674	-0.216	1087	2.13	BV		9.50
81		0.0000	17.144		1070	2.19	VB	?	5.90
82	METHOXY	0.0015	18.470	0.190	1021	2.36	VB	?	5.35
83	SURROGATE	0.0132	19.642	-0.108	29792	2.51	VB		4.90
84		0.0000	21.745		7819	2.78	BB		4.70
85		0.0000	23.200		1465	2.96	BB		4.20
86		0.0000	25.354		2938	3.24	BB	?	10.60
87		0.0000	26.787		2162	3.42	BB		9.55
88		0.0000	30.118		7358	3.85	BB	?	13.30
TOTALS:		0.1056		-0.576	4547590				

DETECTED PKS: 93 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 9.7 OFFSET: -189

RACK: 1 VIAL: 6 INJ: 1

SAVED FILE: P789

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID: 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

12
varian /sunny, calif.p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-11

15091787

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/16/85

Date Analyzed: 10/18/85

Conc/Dil Factor: 10

CAS Number		ug/~~l or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	<1.0
11104-28-2	Aroclor-1221	<1.0
11141-16-5	Aroclor-1232	<1.0
53469-21-9	Aroclor-1242	<1.0
12672-29-6	Aroclor-1248	<1.0
11097-69-1	Aroclor-1254	<2.0
11096-82-5	Aroclor-1260	<2.0

V_i = Volume of extract injected (ul)

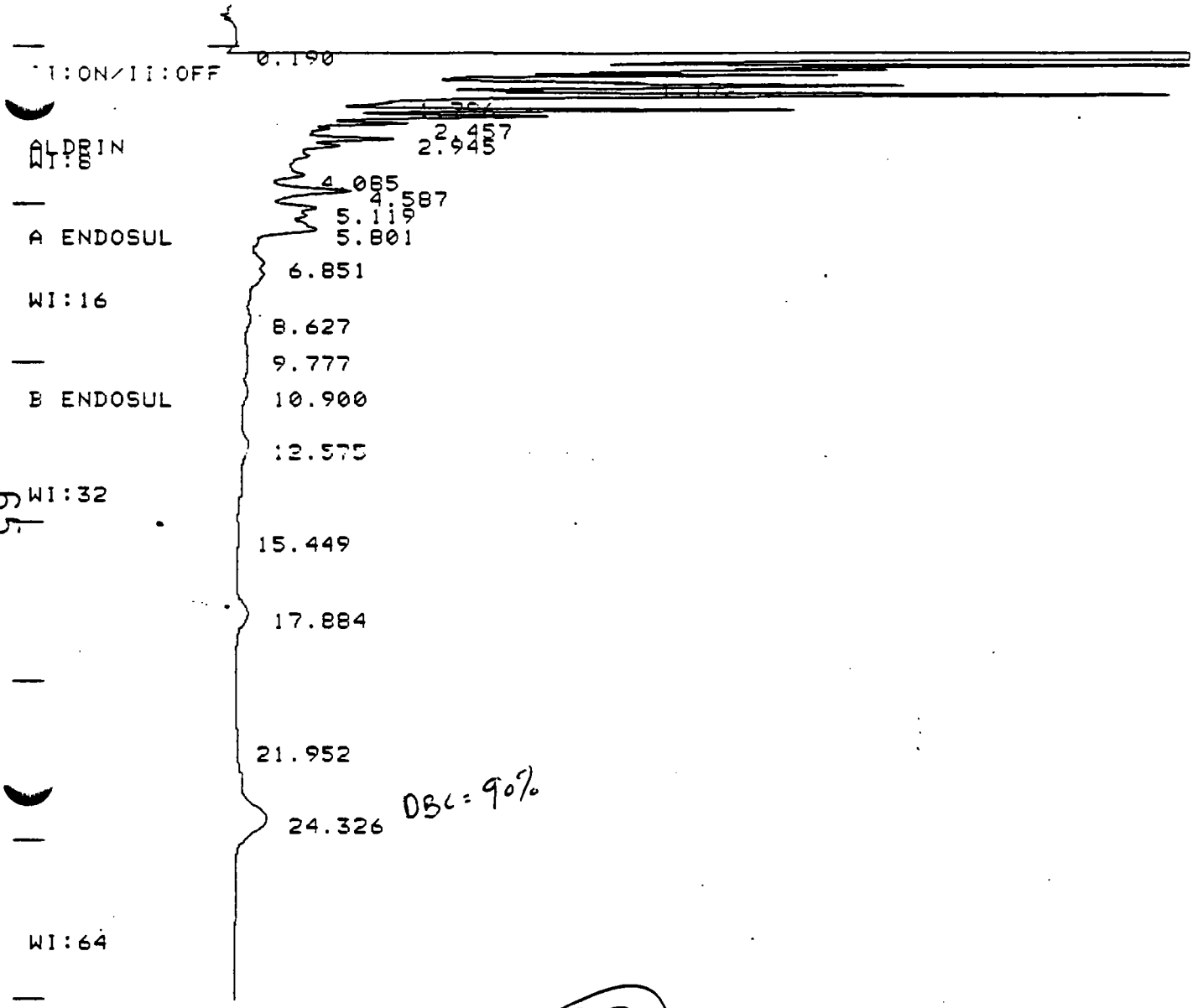
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



65

100µl/1ml

08-11

TITLE: RUN # 30 8:45 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091787 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.288		126353	VB		5.85
2		0.0000	0.646		48070	BV		2.35
3		0.0000	0.785		5221	VV		2.45
4		0.0000	0.862		2540	VV		1.80
5		0.0000	0.947		5316	VB		2.20
6		0.0000	1.172		3198	BV	?	4.30
7		0.0000	1.272		7267	VV		6.80
8		0.0000	1.442		2155	VV	?	3.20
9	A-BHC	0.0087	1.582	0.042	11777	VV	?	6.45
10		0.0000	1.796		131	T		1.30
11	G-BHC	0.0072	2.035	0.055	[illegible]	VV		[illegible]
12	B-BHC	[illegible]	2.228	-0.102	[illegible]	[illegible]		[illegible]

varian /sunnyvale.calif p.n 03 906 162 00

21.952

24.326 DBC = 90%

WI:64

100µl/1ml

08-11

TITLE: RUN # 30 8:45 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091787 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.288		126353	VB		5.85
2		0.0000	0.646		48070	BV		2.35
3		0.0000	0.785		5221	VV		2.45
4		0.0000	0.862		2540	VV		1.80
5		0.0000	0.947		5316	VB		2.20
6		0.0000	1.172		3198	BV	?	4.30
7		0.0000	1.272		7267	VV		6.80
8		0.0000	1.442		2155	VV	?	3.20
9	A-BHC	0.0087	1.582	0.042	11777	VV	?	6.45
10		0.0000	1.796		131	T		1.30
11	G-BHC	0.0072	2.035	0.055	6776	VV		4.90
12	B-BHC	0.0101	2.228	-0.102	3241	VV		6.30
13		0.0000	2.457		1285	VV		4.80
14	D-BHC	0.0004	2.624	-0.096	230	VV		4.10
15	ALDRIN	0.0021	2.945	-0.045	1284	VV		6.90
16		0.0000	3.160		526	VB		6.85
17		0.0000	3.484		169	BB		5.25
18		0.0000	4.085		364	BV		8.25
19		0.0000	4.587		1204	VV		11.75
20		0.0000	5.119		747	VV	?	11.10
21		0.0000	5.353		626	VV	?	10.40
22	A ENDOSUL	0.0029	5.801	-0.159	839	VB	?	11.30
23		0.0000	6.851		177	BV	?	14.10
24	DIELDRIN	0.0008	7.200	-0.200	184	VB	?	13.20
25		0.0000	12.575		123	BB	?	39.55
26	ENDO SUL	0.0024	17.884	-0.696	156	BB		39.45
27	DBC	0.0090	24.326	-1.204	472	VB	?	58.15
TOTALS:		0.0436		-2.405	230431			

DETECTED PKS: 35 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 55

DECK: 2 VIAL: 15 INJ: 1

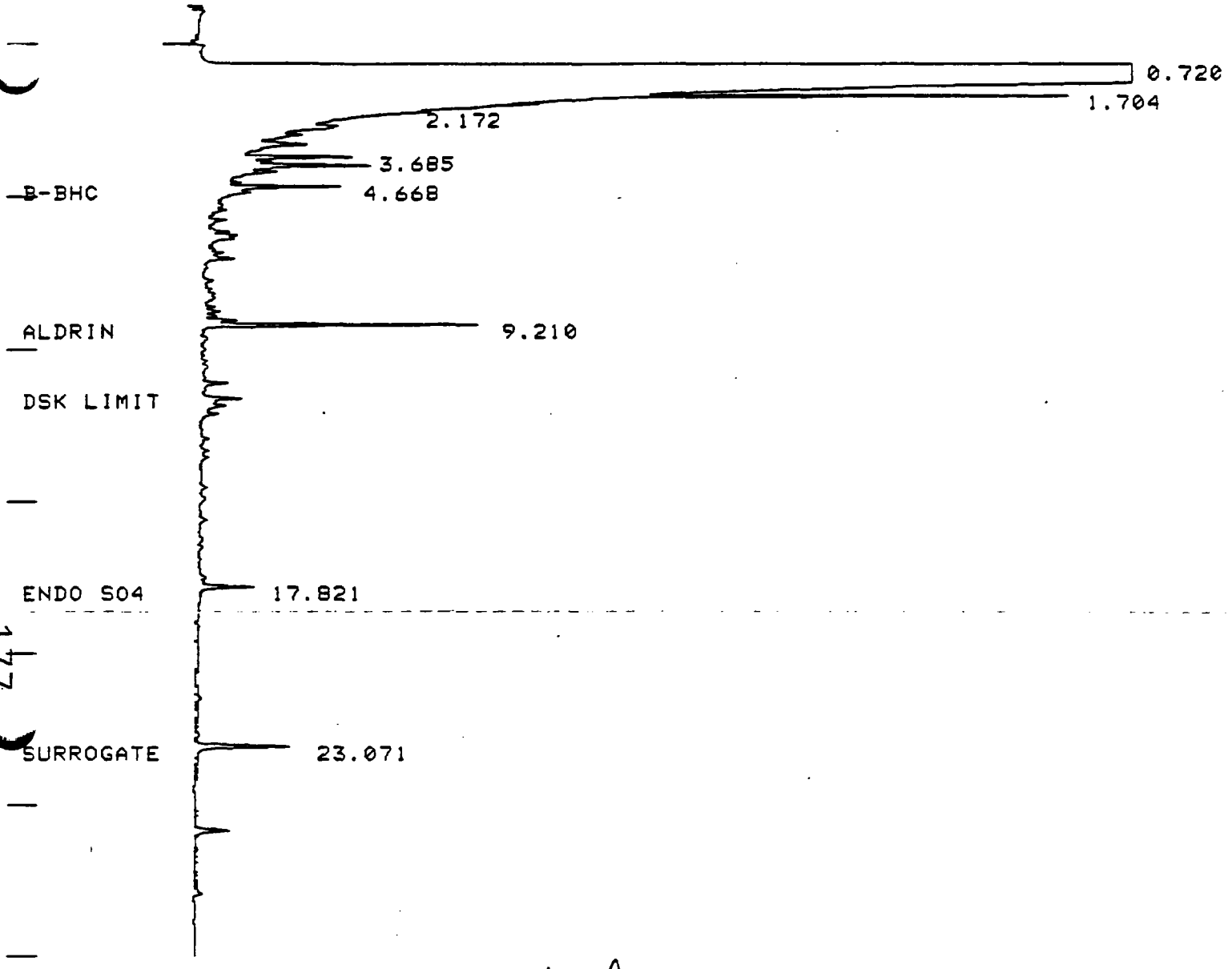
SAVED FILE: F1937

NOTES:
4 UL INJECTION
1.5%SP225C 1.95%SP240:
GC =2

varian / sunnyvale, calif p/n 03-906302-00

906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



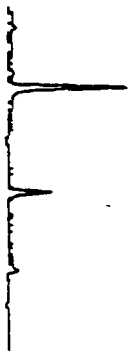
100µl/1ml

TITLE: RUN# 21 08-11 9:06 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091787 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.720		2842520	0.08	BV		5.60
2		0.0000	1.704		200911	0.19	VV	?	5.80
3		0.0000	1.965		69334	0.21	VV	?	1.80
4		0.0000	2.172		22310	0.24	VB	?	
5		0.0000	3.685		14526	0.40	BB	?	2.90
6	A-BHC	0.0584	3.974	-0.276	16683	0.43	BB		4.15
7	B-BHC	0.1287	4.668	-0.312	13021	0.51	BB		4.10
8	ALDRIN	0.1031	9.210	0.290	34791	1.00	BB		3.80
9	ENDO SO4	0.0279	17.921	0.141	7731	1.93	BB	?	4.30
10	SURROGATE	0.0731	23.071	-0.499	18851	2.51	BB	?	5.80

177



100µl/1ml

TITLE: RUN# 21 08-11 9:06 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091787 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.720		2842520	0.08	BV		5.60
2		0.0000	1.704		200911	0.19	VV	?	5.80
3		0.0000	1.965		69334	0.21	VV	?	1.80
4		0.0000	2.172		22310	0.24	VB	?	
5		0.0000	3.685		14526	0.40	BB	?	2.90
6	A-BHC	0.0584	3.974	-0.276	16683	0.43	BB		4.15
7	B-BHC	0.1287	4.668	-0.312	13021	0.51	BB		4.10
8	ALDRIN	0.1031	9.210	0.290	34791	1.00	BB		3.80
9	ENDO SO4	0.0279	17.821	0.141	7731	1.93	BB	?	4.30
10	SURROGATE	0.0731	23.071	-0.499	18851	2.51	BB	?	5.80
TOTALS:		0.3912		-0.656	3240680				

DETECTED PKS: 10 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -263

RACK: 2 VIAL: 6 INJ: 1

SAVED FILE: P667

ERRORS:
DSK LIMIT

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270°C @3°C/MIN

varian / sunnyvale
p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-12 15090509

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/13/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 10

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	<1.0
11104-28-2	Aroclor-1221	<1.0
11141-16-5	Aroclor-1232	<1.0
53469-21-9	Aroclor-1242	2.7
12672-29-6	Aroclor-1248	<1.0
11097-69-1	Aroclor-1254	<2.0
11096-82-5	Aroclor-1260	<2.0

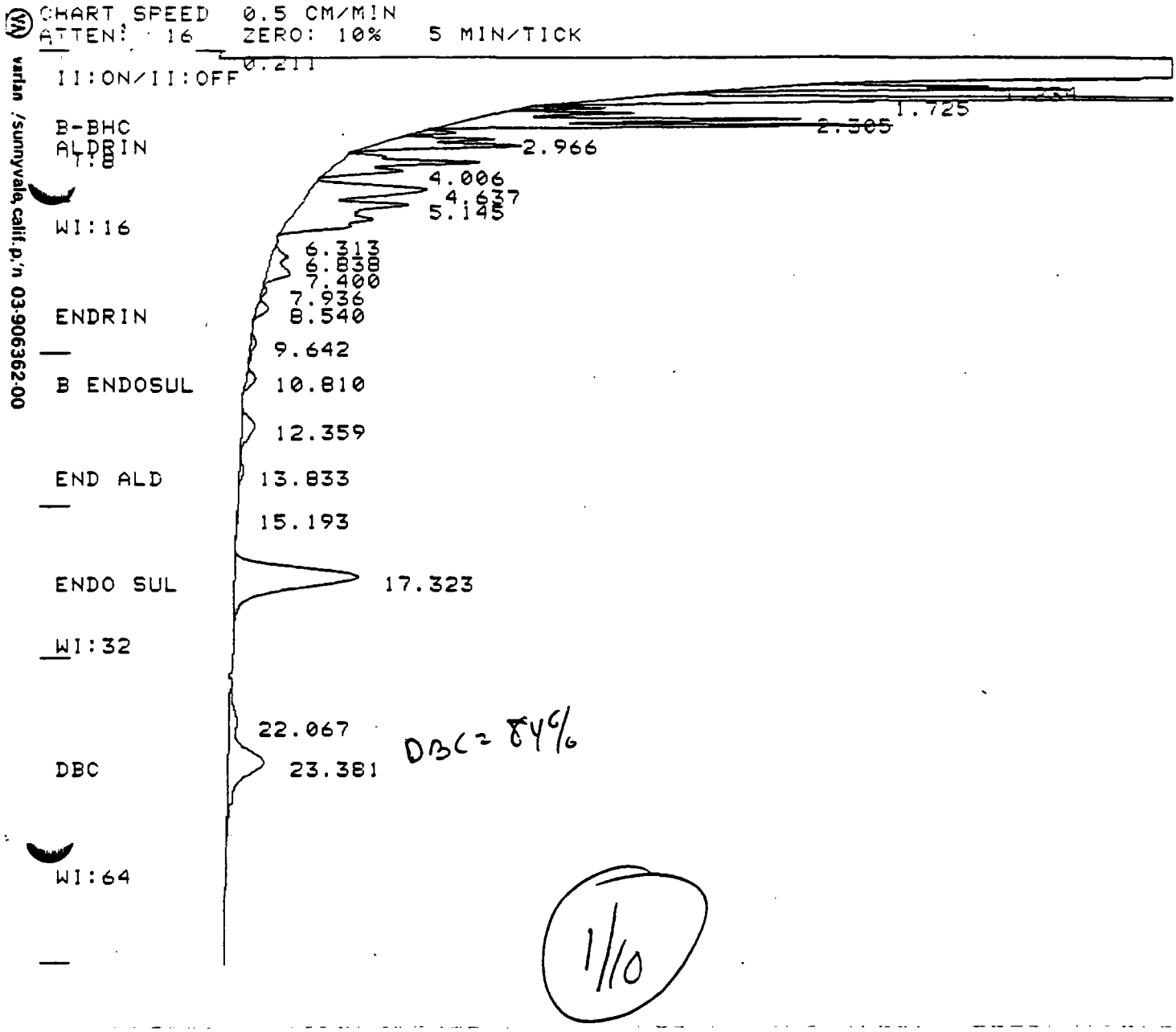
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4



99

TITLE: RUN # 30 68-12 7:01 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090509 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		159959	VV	?	2.00
2		0.0000	0.357		146469	VB	?	5.20
3		0.0000	0.689		29679	BV	?	1.35
4		0.0000	0.827		3951	VB		1.55
5		0.0000	0.997		1354	BB		1.45
6		0.0000	1.234		3164	BV	?	3.30
7		0.0000	1.326		5138	VV		4.45
8		0.0000	1.505		879	VV	?	2.50
9	A-BHC	0.0095	1.626	0.008	12529	VV		6.35
10		0.0000	1.725		4619	VV	?	4.80
11		0.0000	1.926		1301	VV		3.50
12	G-BHC	0.0022	2.085	0.035	2076	VV		5.15
13	B-BHC	0.0152	2.305	-0.055	5143	VV		7.25
14		0.0000	2.503		7009	VV		5.10
15	D-BHC	0.0010	2.737	-0.033	591	VV		6.00
16	ALDRIN	0.0024	2.966	-0.044	1553	[illegible]		7.00

66

1242 = 3.98 Ht. x 0.068 x 1ml x 10 = 2.7 µg

Factor = 0.068
peak at 4.40 min
missing From Sample

LE: RUN # 30 08-12 7:01 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090509 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		159959	VV	?	2.00
2		0.0000	0.357		146469	VB	?	5.20
3		0.0000	0.689		29679	BV	?	1.35
4		0.0000	0.827		3951	VB		1.55
5		0.0000	0.997		1354	BB		1.45
6		0.0000	1.234		3164	BV	?	3.30
7		0.0000	1.326		5138	VV		4.45
8		0.0000	1.505		879	VV	?	2.50
9	A-BHC	0.0095	~~1.628~~	0.008	~~12529~~	VV		6.35
10		0.0000	1.725		4619	VV	?	4.80
11		0.0000	1.926		1301	VV		3.50
12	G-BHC	0.0022	2.085	0.035	2076	VV		5.15
13	B-BHC	0.0152	2.305	-0.055	5143	VV		7.25
14		0.0000	2.509		7009	VV		5.10
15	D-BHC	0.0010	2.737	-0.003	591	VV		6.00
16	ALDRIN	0.0024	2.966	-0.044	1593	VV		7.00
17		0.0000	3.175		2331	VV		8.80
18		0.0000	~~3.534~~	H=3.98	~~648~~	VV	?	8.40
19		0.0000	3.732		2236	VV		9.55
20		0.0000	4.006		1174	VV		10.80
21		0.0000	4.637		1831	VV	?	22.55
22		0.0000	5.145		1725	VV		14.45
23		0.0000	5.616		1316	VV	?	17.10
24	A ENDOSUL	0.0034	5.831	0.051	1043	VV	?	4.50
25	DIELDRIN	0.0010	6.838	-0.272	248	VV		17.50
26		0.0000	7.400		367	VV	?	23.35
27	ENDRIN	0.0011	8.540	-0.090	189	VB		18.10
28		0.0000	9.642		106	BV		19.20
29	B ENDOSUL	0.0011	10.810	0.210	163	VB		23.40
30		0.0000	12.359		197	BV	?	38.55
31	ENDO SUL	0.0349	17.323	0.043	1928	BB	?	42.30
32		0.0000	22.067		108	BV	?	47.40
33	DBC	0.0084	23.381	0.331	528	VB		53.35
TOTALS:		0.0802		0.214	401592			

DETECTED PKS: 38 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -107

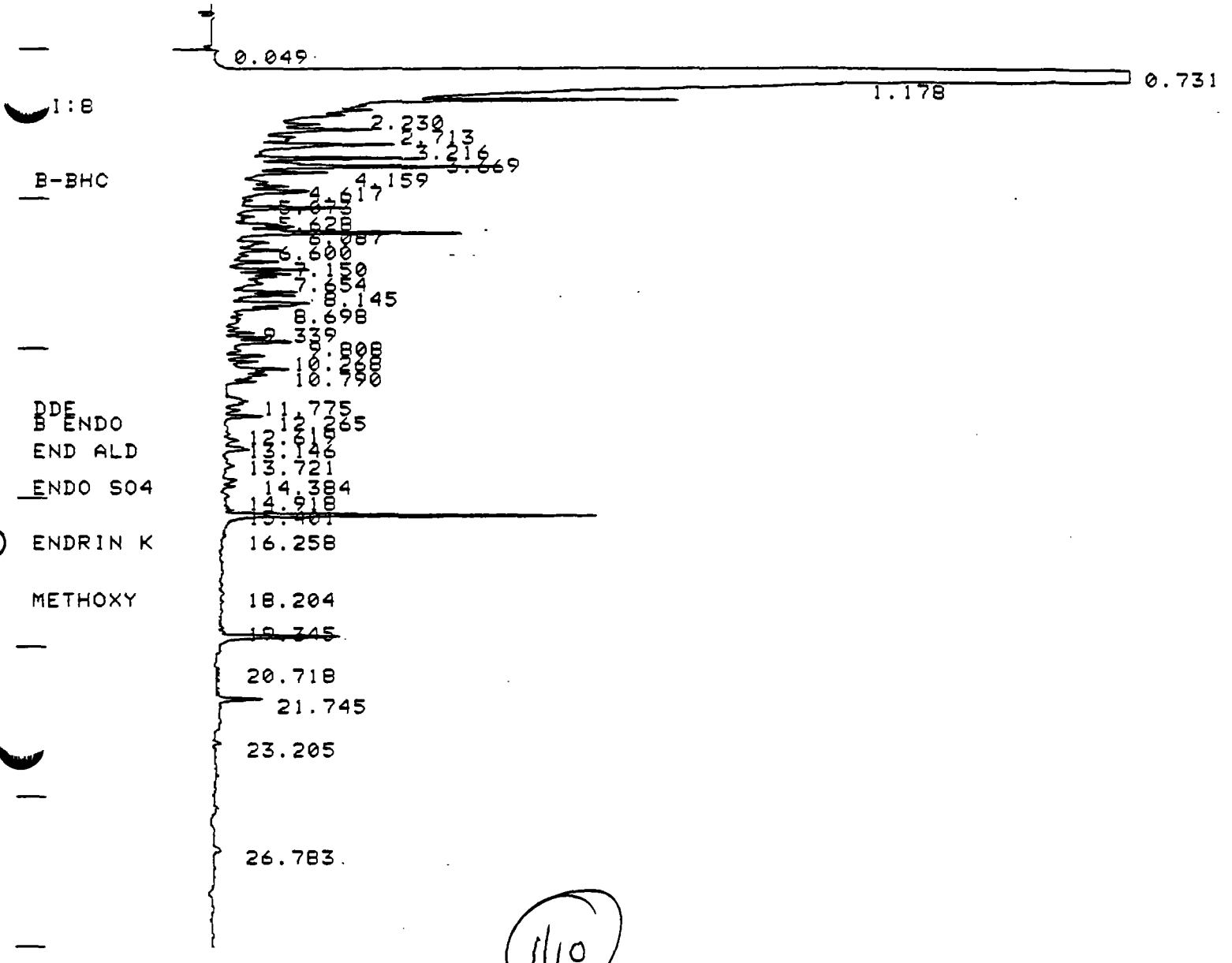
RACK: 2 VIAL: 1 INJ: 1

SAVED FILE: P1257

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



1/10

TITLE: RUN# 12 08-12 21:39 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090509 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.049		2244	0.01	BB	?	2.90
2		0.0000	0.731		2228500	0.09	BV		7.15
3		0.0000	1.178		355473	0.15	VV	?	31.95
4		0.0000	1.717		95671	0.22	VV		4.85
5		0.0000	1.912		33732	0.24	VV	?	3.10
6		0.0000	2.052		41188	0.26	VV	?	5.40
7		0.0000	2.230		43600	0.28	VV	?	4.40
8		0.0000	2.532		28282	0.32	VV	?	10.30
9		0.0000	2.713		45631	0.34	VV	?	6.60
10		0.0000	2.975		18014	0.38	VV	?	6.62
11		0.0000	3.232		10947	0.39	V	?	1.80
12		0.0000	3.416		51231	0.41	VV	?	5.80
13		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

varian /sunnyvale, calif. p/n 03-906362-00

TITLE: .RUN# 12 00 21:39 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090509 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.049		2244	0.01	BB	?	2.90
2		0.0000	0.731		2228500	0.09	BV		7.15
3		0.0000	1.178		355473	0.15	VV	?	31.95
4		0.0000	1.717		95671	0.22	VV		4.85
5		0.0000	1.912		33732	0.24	VV	?	3.10
6		0.0000	2.052		41188	0.26	VV	?	5.40
7		0.0000	2.230		43600	0.28	VV	?	4.40
8		0.0000	2.532		28282	0.32	VV	?	10.30
9		0.0000	2.713		45631	0.34	VV	?	6.60
10		0.0000	2.975		18014	0.38	VV	?	6.60
11		0.0000	3.082		10847	0.39	VV	?	1.80
12		0.0000	3.216		51231	0.41	VV	?	5.80
13		0.0000	3.536		7638	0.45	VV	?	3.50
14	A-BHC	0.0081	3.669	-0.031	35241	0.47	VV	?	2.80
15		0.0000	3.852		10196	0.49	VV	?	7.00
16		0.0000	3.951		52992	0.50	VV		4.75
17	B-BHC	0.0202	4.159	-0.191	27201	0.53	VV		6.20
18	G-BHC	0.0035	4.476	-0.034	13427	0.57	VV	?	12.30
19		0.0000	4.617		13207	0.59	VV	?	9.65
20		0.0000	4.781		27212	0.61	VV		8.30
21	D-BHC	0.0020	5.073	-0.127	6635	0.64	VV	?	4.80
22		0.0000	5.336		31833	0.68	VV	?	3.65
23		0.0000	5.628		5987	0.71	VV	?	8.20
24		0.0000	5.746		4461	0.73	VV	?	5.50
25		0.0000	5.895		7483	0.75	VV	?	4.90
26		0.0000	5.969		10489	0.76	VV	?	4.35
27		0.0000	6.087		6244	0.77	VV	?	4.90
28		0.0000	6.182		47303	0.78	VV		5.20
29		0.0000	6.511		9454	0.83	VV	?	7.40
30	HEPT	0.0021	6.600	-0.060	4754	0.84	VV	?	1.60
31		0.0000	6.765		11645	0.86	VV	?	3.40
32		0.0000	6.936		4527	0.88	VV	?	5.10
33		0.0000	7.001		1636	0.89	VV	?	
34		0.0000	7.150		9411	0.91	VV	?	2.85
35		0.0000	7.406		13855	0.94	VV		4.55
36		0.0000	7.556		9855	0.96	VV		5.15
37		0.0000	7.654		8319	0.97	VV	?	7.05
38		0.0000	7.772		4596	0.99	VV	?	3.90
39	ALDRIN	0.0034	7.871	0.041	11627	1.00	VV	?	17.65
40		0.0000	8.145		11106	1.03	VV		4.90
41		0.0000	8.264		11178	1.05	VV		5.30
42		0.0000	8.384		2460	1.07	VV	?	2.10
43		0.0000	8.525		13172	1.08	VV	?	4.90
44		0.0000	8.566		8269	1.09	VV	?	4.35
45		0.0000	8.698		8235	1.11	VV	?	5.25
46		0.0000	8.893		3407	1.13	VV	?	5.60
47		0.0000	9.029		2601	1.15	VV	?	5.10
48		0.0000	9.136		2723	1.16	VV	?	2.10
49	HEPT EP	0.0008	9.339	-0.051	2163	1.19	VV	?	6.30
50		0.0000	9.502		4007	1.21	VV		4.80
51		0.0000	9.662		6206	1.23	VV		5.10
52		0.0000	9.808		13633	1.25	VV		6.35
53		0.0000	10.081		3918	1.28	VV	?	9.45
54		0.0000	10.268		5939	1.30	VV		4.90
55		0.0000	10.452		4763	1.33	VV		4.95
56		0.0000	10.701		11622	1.36	VV	?	5.20
57	A ENDO	0.0019	10.790	0.020	4985	1.37	VV	?	2.80
58		0.0000	10.893		6390	1.38	VV	?	4.90
59		0.0000	10.983		3294	1.39	VV	?	2.00
60		0.0000	11.106		4153	1.41	VB	?	3.00
61		0.0000	11.775		6104	1.50	BV	?	14.60
62	DIELDRIN	0.0008	11.849	-0.001	2115	1.50	VV	?	4.15
63	DDE	0.0011	12.050	-0.080	3078	1.53	VV		5.20
64		0.0000	12.265		6464	1.56	VV		4.50
65	ENDRIN	0.0006	12.619	-0.08[illegible]	1310	1.60	VV	?	8.70
66		0.0000	12.851		1374	1.63	VV		5.95
67	B ENDO	0.0014	13.056	-0.09[illegible]	3199	1.66	VV		6.00
68		0.0000	13.370		6490	1.70	[illegible]		6.10
69	[illegible]	0.0014	13.933	0.033	[illegible]	1.77	[illegible]		8.20
70	[illegible]	0.0011	14.394	0.37[illegible]	[illegible]	1.83	[illegible]	?	4.40
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]

04

varian /sunnyvale,calif p/n 03-906362-00

Run #12
08-12
1504 0504

33		0.0000	7.001		1656	0.89	VV	?	
34		0.0000	7.150		9411	0.91	VV	?	2.85
35		0.0000	7.406		13855	0.94	VV		4.55
36		0.0000	7.556		9855	0.96	VV		5.15
37		0.0000	7.654		8319	0.97	VV	?	7.05
38		0.0000	7.772		4596	0.99	VV	?	3.90
39	ALDRIN	0.0034	7.871	0.041	11627	1.00	VV	?	17.65
40		0.0000	8.145		11106	1.03	VV		4.90
41		0.0000	8.264		11178	1.05	VV		5.30
42		0.0000	8.384		2460	1.07	VV	?	2.10
43		0.0000	8.525		13172	1.08	VV	?	4.90
44		0.0000	8.566		8269	1.09	VV	?	4.35
45		0.0000	8.698		8235	1.11	VV	?	5.25
46		0.0000	8.893		3407	1.13	VV	?	5.60
47		0.0000	9.029		2601	1.15	VV	?	5.10
48		0.0000	9.136		2723	1.16	VV	?	2.10
49	HEPT EP	0.0008	9.339	-0.051	2163	1.19	VV	?	6.30
50		0.0000	9.502		4007	1.21	VV		4.80
51		0.0000	9.662		6206	1.23	VV		5.10
52		0.0000	9.808		13633	1.25	VV		6.35
53		0.0000	10.081		3918	1.28	VV	?	9.45
54		0.0000	10.268		5939	1.30	VV		4.90
55		0.0000	10.452		4763	1.33	VV		4.95
56		0.0000	10.701		11622	1.36	VV	?	5.20
57	A ENDO	0.0019	10.790	0.020	4985	1.37	VV	?	2.80
58		0.0000	10.893		6390	1.38	VV	?	4.90
59		0.0000	10.983		3294	1.39	VV	?	2.00
60		0.0000	11.106		4153	1.41	VB	?	3.00
61		0.0000	11.775		6104	1.50	BV	?	14.60
62	DIELDRIN	0.0008	11.849	-0.001	2115	1.50	VV	?	4.15
63	DDE	0.0011	12.050	-0.080	3078	1.53	VV		5.20
64		0.0000	12.265		6464	1.56	VV		4.50
65	ENDRIN	0.0006	12.619	-0.081	1310	1.60	VV	?	8.70
66		0.0000	12.851		1374	1.63	VV		5.95
67	B ENDO	0.0014	13.056	-0.084	3199	1.66	VV		6.00
68		0.0000	13.370		6490	1.70	VV		8.10
69	DDD	0.0014	13.933	0.033	2624	1.77	VB		8.20
70	END ALD	0.0011	14.384	0.374	2220	1.83	BV	?	4.40
71		0.0000	14.441		1111	1.84	VV	?	7.40
72		0.0000	14.600		2061	1.86	VB		4.45
73	ENDO SO4	0.0009	14.918	-0.122	1874	1.89	BV		7.85
74		0.0000	15.297		2521	1.94	VV	?	6.10
75		0.0000	15.401		1475	1.96	VV	?	6.35
76	DDT	0.0349	15.574	0.084	60175	1.98	VB		4.40
77		0.0000	18.204		1101	2.31	BV	?	6.35
78	METHOXY	0.0017	18.286	0.006	1172	2.32	VB	?	
79	SURROGATE	0.0110	19.648	-0.102	24979	2.50	VB		5.60
80		0.0000	21.745		7794	2.76	BB	?	3.05
81		0.0000	23.205		1323	2.95	BB		5.40
82		0.0000	26.783		1951	3.40	BB		9.10
TOTALS:		0.0969		-0.406	3628380				

DETECTED PKS: 88 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 9.7 OFFSET: -219

RACK: 1 VIAL: 7 INJ: 1

SAVED FILE: P790

NOTES:

GC#6, SPB-5
UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

(VA) vartan /summvale calif.p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-13

15091746

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/17/85

Date Analyzed: 10/18/85

Conc/Dil Factor: 10

CAS Number		ug/l ~~or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	2.7
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

V_i = Volume of extract injected (ul)

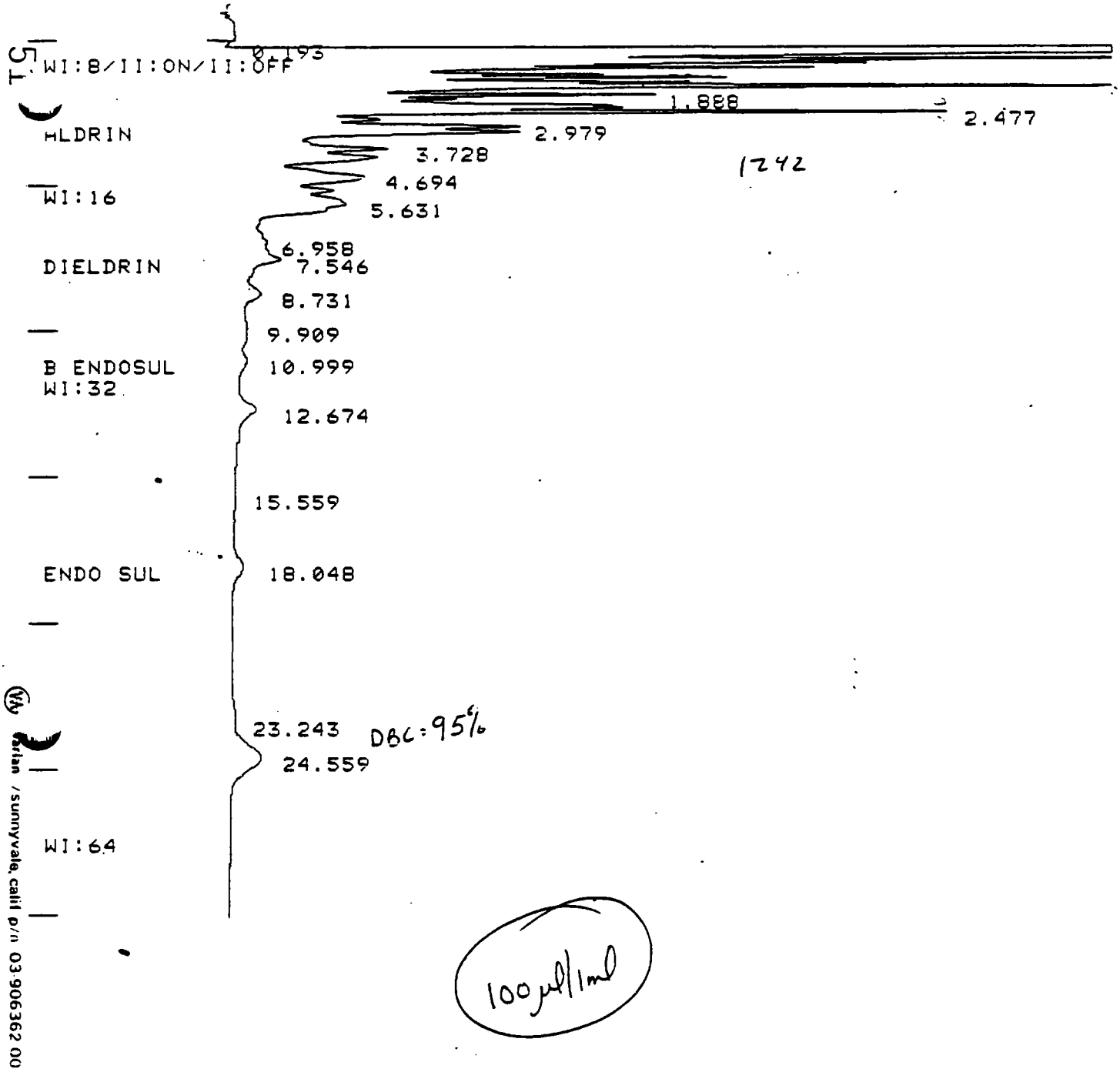
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN # 21 08-13 3:37 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091746 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		129015	VB		6.15
2		0.0000	0.653		41196	BV		2.35
3		0.0000	0.792		5095	VV	?	2.30
4		0.0000	0.868		2093	VV		1.70
5		0.0000	0.958		5328	VB		2.35
6		0.0000	1.179		2900	BV		3.25
7		0.0000	1.285		5020	VV		4.15
8		0.0000	1.458		4589	VV	?	5.20
9	A-BHC	0.0087	1.597	0.057	11750	VV		6.20
10		0.0000	1.888		4471	VV		4.30
11	G-BHC	0.0014	2.030	0.050	1370	VV		2.50
12		0.0000	2.250		4107	VV	?	6.40
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	VV	?	[illegible]

Varian /sunnyvale, calif p/n 03-906362-00

100 µl/1ml

1242 = 2.44 Ht. x 0.1099 µg/ml Ht x 1ml x 10 = 2.7µg

TITLE: RUN # 21 08-13 3:37 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091746 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		129015	VB		6.15
2		0.0000	0.653		41196	BV		2.35
3		0.0000	0.792		5095	VV	?	2.30
4		0.0000	0.868		2093	VV		1.70
5		0.0000	0.958		5328	VB		2.35
6		0.0000	1.179		2900	BV		3.25
7		0.0000	1.285		5020	VV		4.15
8		0.0000	1.458		4589	VV	?	5.20
9	A-BHC	0.0087	1.597	0.057	11750	VV		6.20
10		0.0000	1.888		4471	VV		4.30
11	G-BHC	0.0014	2.030	0.050	1370	VV		4.50
12		0.0000	2.250		4107	VV	?	6.40
13	B-BHC	0.0137	2.329	-0.001	4382	VV	?	4.30
14		0.0000	2.477		9787	VV	?	3.25
15	D-BHC	0.0013	2.715	-0.005	770	VV		7.05
16	ALDRIN	0.0053	2.979	-0.011	3207	VV	?	9.00
17		0.0000	3.157		3330	VV	?	10.25
18		0.0000	3.728	H= 2.44	1474	VV		9.35
9		0.0000	4.011		1385	VV		15.30
20		0.0000	4.694		1379	VV	?	21.40
21		0.0000	5.164		963	VV	?	12.10
22		0.0000	5.631		1268	VV	?	29.30
23	A ENDOSUL	0.0035	5.848	-0.112	1016	VB	?	11.30
24		0.0000	6.958		193	BV	?	28.60
25	DIELDRIN	0.0020	7.546	0.146	455	VV		21.00
26	ENDRIN	0.0013	8.731	-0.299	235	VB		21.00
27	B ENDOSUL	0.0008	10.999	-0.181	107	VB		25.30
28		0.0000	12.674		289	BB		31.30
29	ENDO SUL	0.0023	18.048	-0.532	149	BB		39.45
30	DBC	0.0095	24.559	-0.971	495	VB	?	58.20
TOTALS:		0.0498		-1.859	247818			

DETECTED PKS: 35 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 65

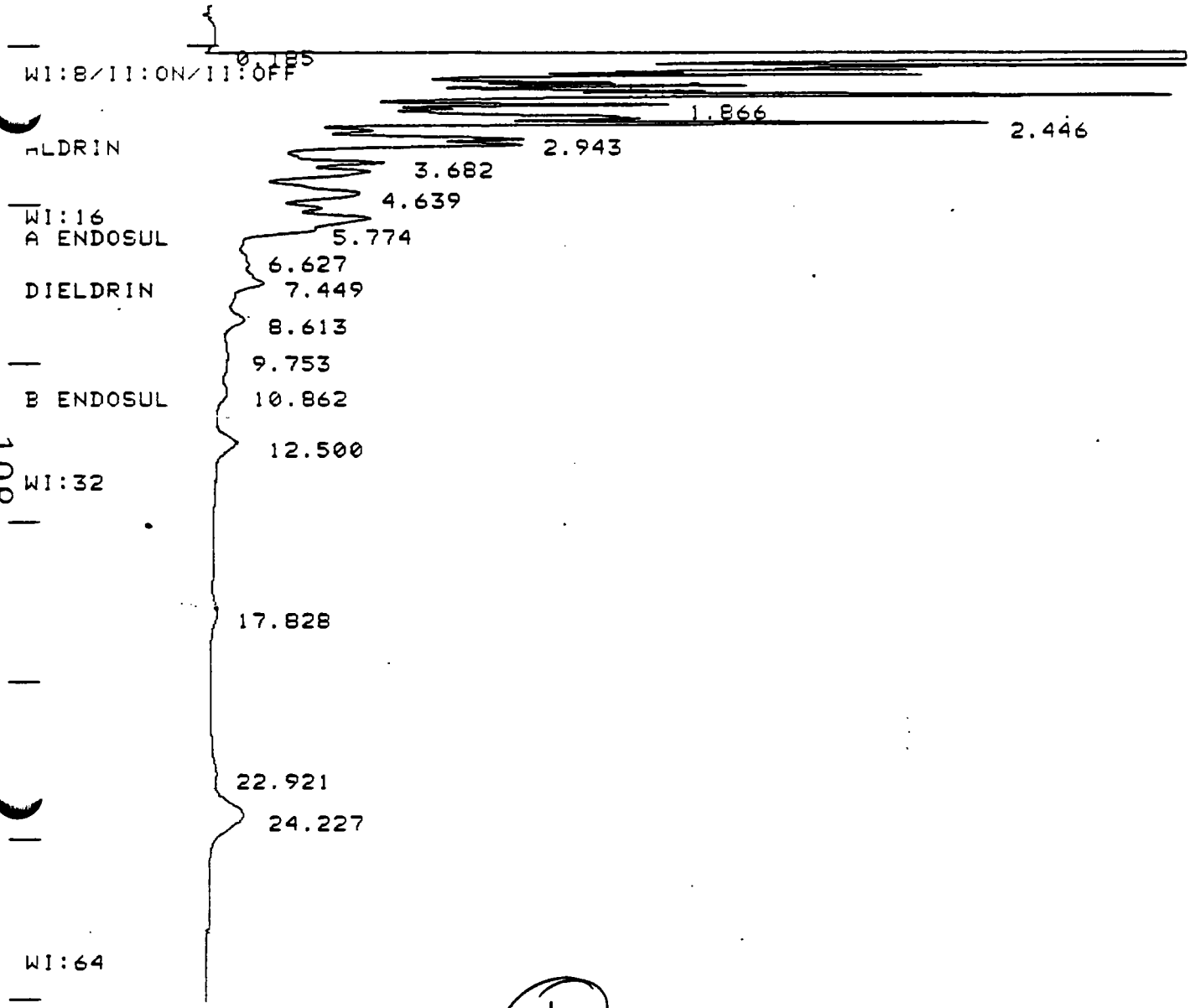
RACK: 2 VIAL: 6 INJ: 1

SAVED FILE: P1928

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

52

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



108

1/10

08-13

TITLE: RUN # 21 20:47 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091746 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.287		129790	VB	6.10
2		0.0000	0.645		41832	BV	2.35
3		0.0000	0.782		5040	VV	2.45
4		0.0000	0.857		2211	VV	1.65
5		0.0000	0.947		6351	VB	2.30
6		0.0000	1.167		2620	BV	3.25
7		0.0000	1.270		4920	VV	4.15
8		0.0000	1.441		4510	VV	5.10
9	--BHC	0.0066	1.578	0.038	[illegible]	VV	6.10
10		0.0000	1.866		[illegible]	VV	4.25
11	2-B-1	0.2014	2.007	0.027	[illegible]	VV	4.40
12		0.0000	2.230		[illegible]		5.70
13	2-B-1	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

varian /sunnyvale.calif p n 03 906362 00

08-13

TITLE: RUN # 21 20:47 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091746 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.287		129790	VB		6.10
2		0.0000	0.645		41832	BV		2.35
3		0.0000	0.782		5040	VV		2.45
4		0.0000	0.857		2211	VV		1.65
5		0.0000	0.947		6351	VB		2.30
6		0.0000	1.167		2820	BV		3.25
7		0.0000	1.270		4920	VV		4.15
8		0.0000	1.441		4510	VV	?	5.10
9	A-BHC	0.0086	1.578	0.038	11669	VV		6.10
10		0.0000	1.866		4431	VV		4.25
11	G-BHC	0.0014	2.007	0.027	1330	VV		4.40
12		0.0000	2.230		4055	VV	?	6.70
13	B-BHC	0.0139	2.299	-0.031	4440	VV	?	3.90
14		0.0000	2.446		9814	VV	?	3.15
15	D-BHC	0.0013	2.682	-0.038	796	VV		7.10
16	ALDRIN	0.0053	2.943	-0.047	3236	VV	?	9.00
17		0.0000	3.117		3321	VV	?	10.25
18		0.0000	3.682		1509	VV		9.30
19		0.0000	3.960		1394	VV		15.25
20		0.0000	4.639		1412	VV	?	20.70
21		0.0000	5.104		962	VV	?	11.90
22		0.0000	5.426		1752	VV		22.40
23	A ENDOSUL	0.0035	5.774	-0.186	1016	VB	?	11.20
24		0.0000	6.627		112	BV	?	15.30
25		0.0000	6.866		169	VV	?	16.70
26	DIELDRIN	0.0019	7.449	0.049	430	VB		20.35
27	ENDRIN	0.0013	8.613	-0.417	234	BB		20.20
28	B ENDOSUL	0.0008	10.862	-0.318	110	VB		23.05
29		0.0000	12.500		296	BB		30.60
30		0.0000	22.921		116	BV	?	57.00
31		0.0000	24.227		511	VB	?	57.50
TOTALS:		0.0380		-0.923	250589			

DETECTED PKS: 35 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: -35

RACK: 2 VIAL: 6 INJ: 1

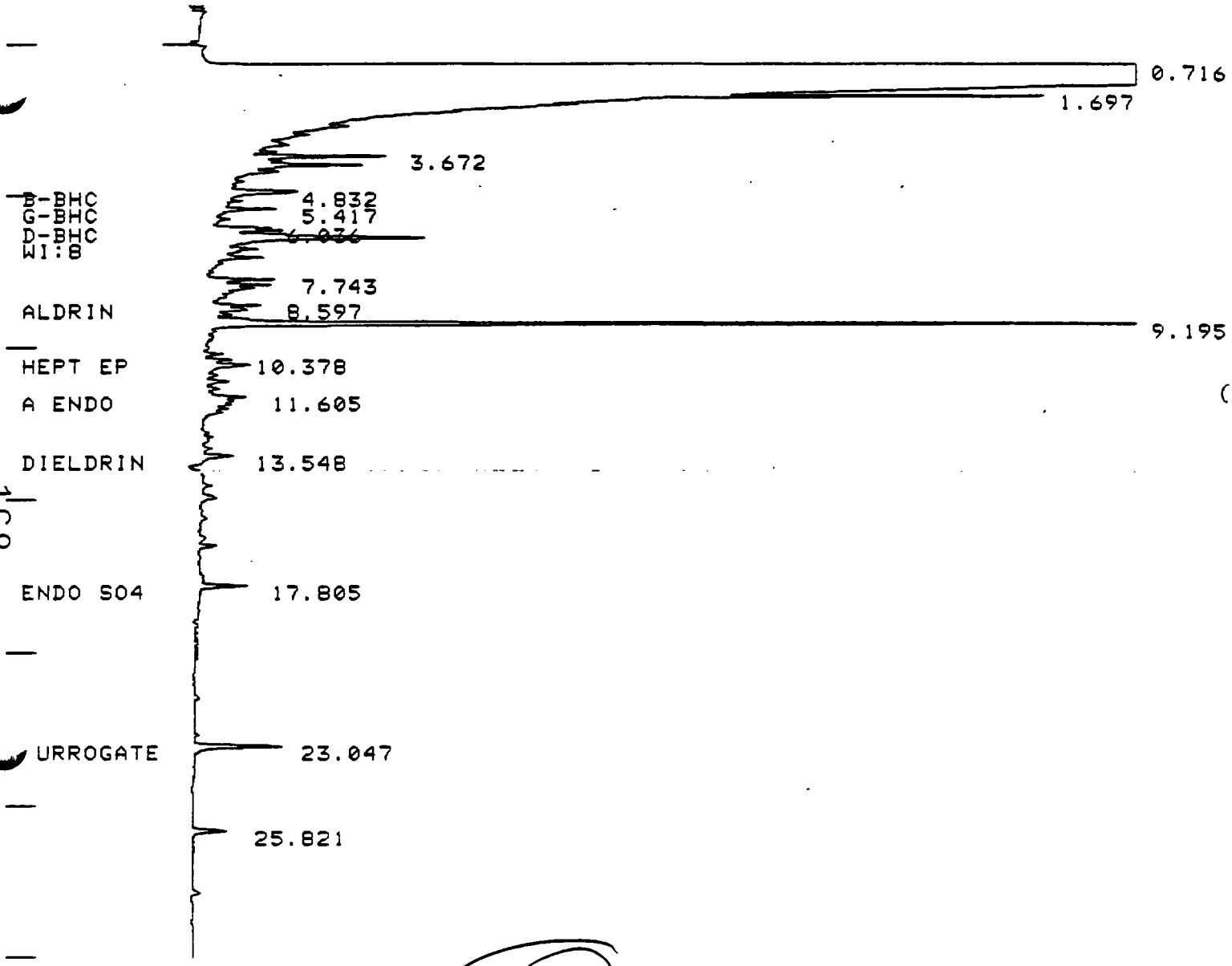
SAVED FILE: P1966

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK

Varian / Summy/Vdu, call p/n 03 906362 00 (VA)

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



168

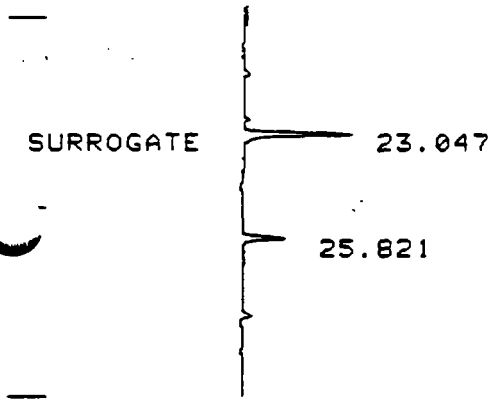
100µl/1ml

TITLE: RUN# 15 08-13 4:29 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091746 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.716		3139390	0.08	BV		5.85
2		0.0000	1.697		110448	0.20	VV	?	4.80
3		0.0000	1.790		47613	0.21	VV	?	
4		0.0000	1.957		26580	0.23	VB	?	1.50
5		0.0000	3.672		17203	0.42	BB		4.35
6	A-BHC	0.0386	3.964	-0.256	11039	0.46	BB		3.80
7	B-BHC	0.1260	4.832	-0.148	12742	0.56	BB	?	5.55
8	G-BHC	0.0249	5.417	0.287	6915	0.63	BB		3.70
9	D-BHC	0.0247	6.036	0.126	6626	0.70	BV	?	3.40
10		0.0000	6.123		8831	0.71	VV	?	4.85
11		0.0000	6.366		51824	0.74	VB	?	6.75
12		0.0000	6.731		4013	0.78	BV	?	3.60

varian /sunnyvale, p.n 03 906362 00



100ul/1ml

TITLE: RUN# 15 08-13 4:29 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091746 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.716		3139390	0.08	BV		5.85
2		0.0000	1.697		110448	0.20	VV	?	4.80
3		0.0000	1.790		47613	0.21	VV	?	
4		0.0000	1.957		26580	0.23	VB	?	1.50
5		0.0000	3.672		17203	0.42	BB		4.35
6	A-BHC	0.0386	3.964	-0.286	11039	0.46	BB		3.80
7	B-BHC	0.1260	4.832	-0.148	12742	0.56	BB	?	5.55
8	G-BHC	0.0249	5.417	0.287	6915	0.63	BB		3.70
9	D-BHC	0.0247	6.036	0.126	6626	0.70	BV	?	3.40
10		0.0000	6.123		8631	0.71	VV	?	4.85
11		0.0000	6.366		51824	0.74	VB	?	6.75
12		0.0000	6.731		4013	0.78	BV	?	3.60
13		0.0000	7.010		8352	0.81	VB		3.60
14	HEPT	0.0289	7.743	0.173	6699	0.89	BV		4.25
15		0.0000	7.918		3727	0.91	VB		5.60
16		0.0000	8.597		6733	0.99	BV		3.95
17	ALDRIN	0.0228	8.655	-0.265	7702	1.00	VV	?	17.70
18		0.0000	9.195		190910	1.06	VB		4.00
19		0.0000	10.378		4155	1.20	BV	?	3.70
20	HEPT EP	0.0355	10.549	-0.201	9417	1.22	VB		7.15
21	A ENDO	0.0086	11.605	-0.815	2932	1.34	BB	?	5.20
22	DIELDRIN	0.0411	13.548	-0.172	11354	1.57	BB		6.20
23	ENDO SO4	0.0269	17.805	0.125	7461	2.06	BB		4.55
24	SURROGATE	0.0738	23.047	-0.523	19038	2.66	BB		6.15
25		0.0000	25.821		6701	2.98	BB		6.10
TOTALS:		0.4518		-1.699	3728210				

DETECTED PKS: 25 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -263

RACK: 1 VIAL: 15 INJ: 1

VED FILE: P661

NOTES:

GC=6. SPB-5
2 UL INJECTED
0.32MM ID: 30M
[illegible] (3 MIN) ---> 270°C 8°C/MIN

varian /sunnyvale, calif. p/n 06362.00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-14

15091743

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/17/85

Date Analyzed: 10/21/85

Conc/Dil Factor: 2

CAS Number		ug/l or ug/Kg PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.2
11104-28-2	Aroclor-1221	< 0.2
11141-16-5	Aroclor-1232	< 0.2
53469-21-9	Aroclor-1242	1.2
12672-29-6	Aroclor-1248	< 0.2
11097-69-1	Aroclor-1254	< 0.4
11096-82-5	Aroclor-1260	< 0.4

V_i = Volume of extract injected (ul)

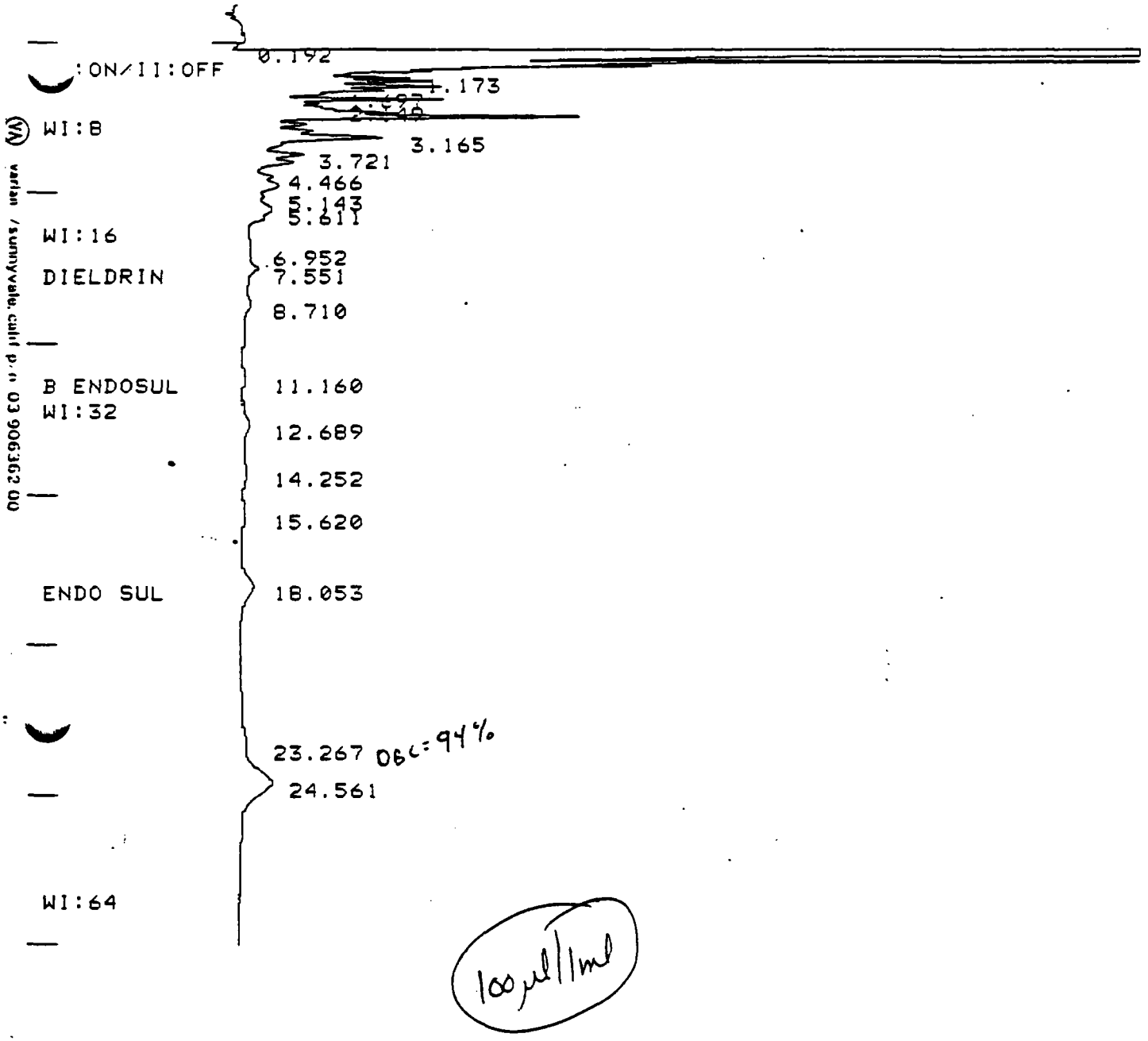
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN # 18 08-14 1:59 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091743 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.288		125487	VB	5.90
2		0.0000	0.447		5912	BB	1.25
3		0.0000	0.649		30336	BV	2.30
4		0.0000	0.731		205	T	2.15
5		0.0000	0.789		3229	VV	1.85
6		0.0000	0.861		890	VV	1.40
7		0.0000	0.938		738	VV	2.50
8		0.0000	1.050		108	T	1.20
9		0.0000	1.173		1287	VV	3.55
10		0.0000	1.277		1726	VV	3.95
11		0.0000	1.454		2042	VV	4.80

47 TITLE: RUN # 18 08-14 1:59 18 OCT 85

ANNEL NO: 2 SAMPLE: 15091743 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.288		125487	VB		5.90
2		0.0000	0.447		5912	BB		1.25
3		0.0000	0.649		30336	BV		2.30
4		0.0000	0.731		205	T	?	2.15
5		0.0000	0.789		3229	VV		1.85
6		0.0000	0.861		890	VV		1.40
7		0.0000	0.938		738	VV		2.50
8		0.0000	1.050		108	T		1.20
9		0.0000	1.173		1287	VV		3.55
10		0.0000	1.277		1728	VV		3.95
11		0.0000	1.454		2042	VV		4.80
12	A-BHC	0.0010	1.592	0.052	1306	VV	?	5.40
13		0.0000	1.697		482	VV		2.35
14		0.0000	1.884		2442	VV		4.35
15	G-BHC	0.0005	2.030	0.050	507	VV		5.95
16		0.0000	2.149		608	VV	?	6.00
17		0.0000	2.235		823	VV	?	6.60
18	B-BHC	0.0057	2.339	0.009	1824	VV	?	6.80
19		0.0000	2.473		4722	VV		5.85
20	D-BHC	0.0008	2.714	-0.006	459	VV		6.15
21	ALDRIN	0.0010	2.933	-0.057	588	VV	?	6.90
22		0.0000	3.165		1726	VV		9.20
23		0.0000	3.721		611	VV		8.60
24		0.0000	3.984		519	VV		9.80
25		0.0000	4.466		261	VV	?	9.50
26		0.0000	4.752		378	VV	?	19.65
27		0.0000	5.143		169	VV	?	11.20
28		0.0000	5.611		325	VV	?	10.20
29	A ENDOSUL	0.0008	5.801	-0.159	219	VB	?	17.80
30	DIELDRIN	0.0008	7.551	0.151	179	VV	?	16.50
31	ENDRIN	0.0006	8.710	-0.320	102	VB		20.15
32		0.0000	12.689		102	BV		32.30
33	ENDO SUL	0.0029	18.053	-0.527	188	BB		41.60
34	DBC	0.0094	24.561	-0.969	490	VB	?	58.60
TOTALS:		0.0235		-1.776	190992			

DETECTED PKS: 41 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 78

RACK: 2 VIAL: 3 INJ: 1

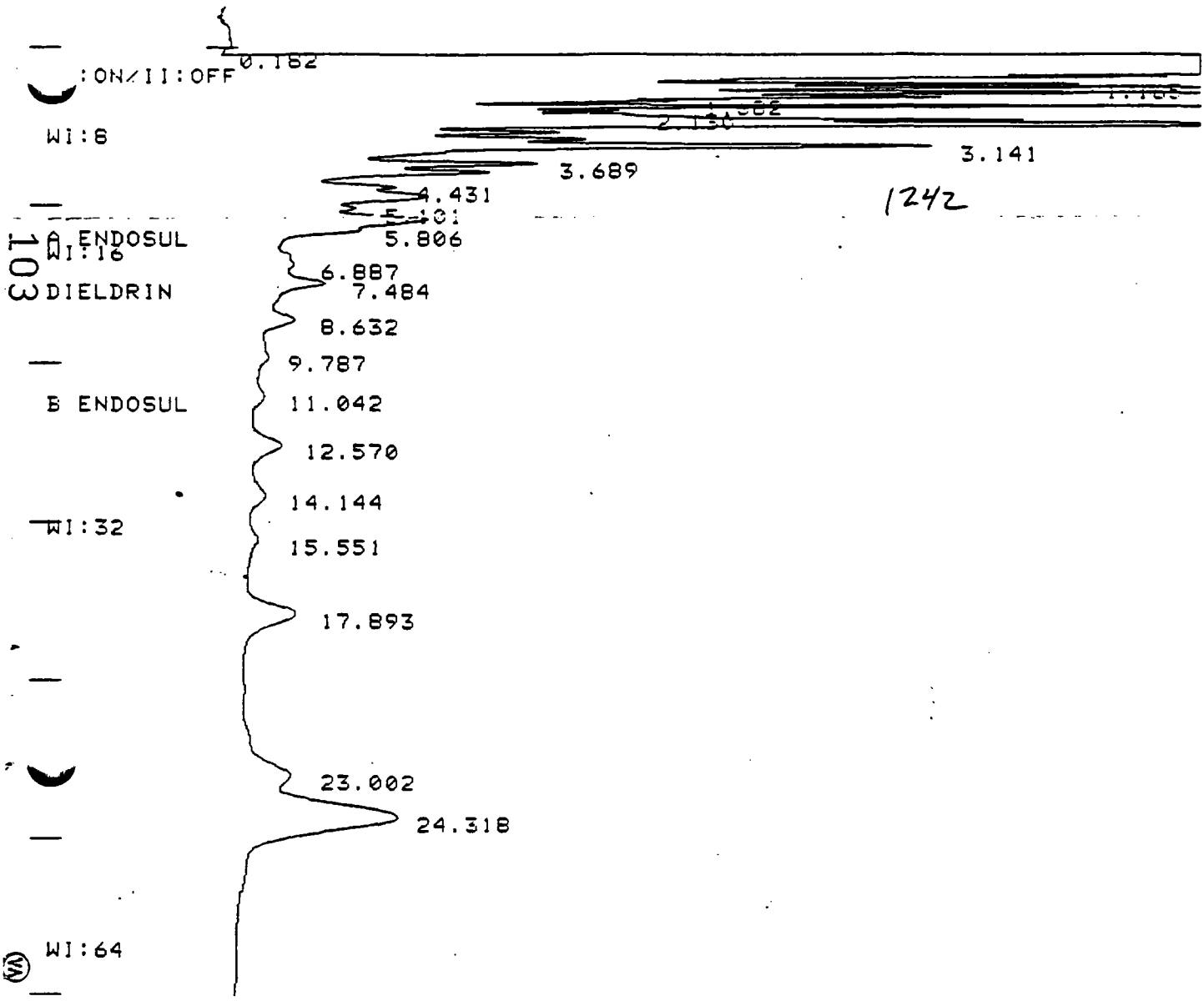
SAVED FILE: P1925

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK

VA ...an /sunnyvale, calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



103

1/2

TITLE: RUN # 18 08-14 19:08 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091743 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.277		129999	VV	?	3.20
2		0.0000	0.293		126505	VV	?	1.20
3		0.0000	0.337		103025	VB	?	1.45
4		0.0000	0.445		22316	BB		1.30
5		0.0000	0.645		100920	BV		2.45
6		0.0000	0.729		13764	VV	?	1.50
7		0.0000	0.782		18547	VV	?	2.40
8		0.0000	0.849		5561	VV		1.30
9		0.0000	0.936		4875	VV		2.85
10		0.0000	1.043		500	[illegible]		1.30
11		0.0000	1.165		[illegible]	VV		3.65
12		[illegible]	[illegible]		[illegible]	[illegible]		[illegible]

varian /sunnyvale, calif p.n. 03 906362 00

(1/2) 1242: 5.10 Ht. x 0.1202 µg/ml Ht. x 1 ml x 2 = 1.2 µg

TITLE: RUN # 18 08-14 19:08 21 OCT 85

NNEL NO: 2 SAMPLE: 15091743 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.277		129999	VV	?	3.20
2		0.0000	0.293		126505	VV	?	1.20
3		0.0000	0.337		103025	VB	?	1.45
4		0.0000	0.445		22316	BB		1.30
5		0.0000	0.645		100920	BV		2.45
6		0.0000	0.729		13764	VV	?	1.50
7		0.0000	0.782		18547	VV	?	2.40
8		0.0000	0.849		5961	VV		1.30
9		0.0000	0.936		4675	VV		2.85
10		0.0000	1.043		500	T		1.30
11		0.0000	1.165		6629	VV		3.65
12		0.0000	1.266		9023	VV		3.90
13		0.0000	1.442		10155	VV		4.75
14	A-BHC	0.0036	1.536	-0.004	4836	VV	?	3.90
15		0.0000	1.581		6212	VV	?	4.05
16		0.0000	1.682		2619	VV		2.50
17		0.0000	1.868		11828	VV		4.20
18	G-BHC	0.0025	2.014	0.034	2369	VV		5.50
19		0.0000	2.130		2641	VV	?	5.60
20		0.0000	2.222		3815	VV	?	7.40
21	B-BHC	0.0273	2.317	-0.013	8753	VV	?	6.40
22		0.0000	2.453		24234	VV		5.55
23	D-BHC	0.0035	2.691	-0.029	2113	VV		5.95
24	ALDRIN	0.0045	2.909	-0.081	2723	VV	?	6.80
25		0.0000	3.141		8168	VV		8.95
26		0.0000	3.689	H=5.10	2727	VV		8.45
27		0.0000	3.953		2250	VV		9.10
[illegible]		0.0000	4.431		1184	VV	?	9.50
29		0.0000	4.725		1759	VV	?	19.75
30		0.0000	5.101		779	VV	?	11.80
31		0.0000	5.443		1983	VV	?	20.05
32	A ENDOSUL	0.0036	5.806	-0.154	1055	VB	?	14.65
33		0.0000	6.653		187	BV	?	16.80
34		0.0000	6.887		262	VV	?	16.50
35	DIELDRIN	0.0035	7.484	0.084	782	VV	?	15.65
36	ENDRIN	0.0024	8.632	-0.398	422	VB		20.40
37		0.0000	9.787		135	BB		19.55
38	B ENDOSUL	0.0011	11.042	-0.138	146	BB		22.50
39		0.0000	12.570		452	BV	?	31.80
40		0.0000	14.144		235	VB	?	30.70
41	END ALD	0.0025	15.551	0.541	128	BB		38.30
42	ENDO SUL	0.0118	17.893	-0.687	753	BB		41.60
43		0.0000	23.002		725	BV	?	57.60
44	DBC	0.0452	24.318	-1.212	2364	VB		59.85
TOTALS:		0.1115		-2.057	650658			

DETECTED PKS: 45 REJECTED PKS: 1

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: -51

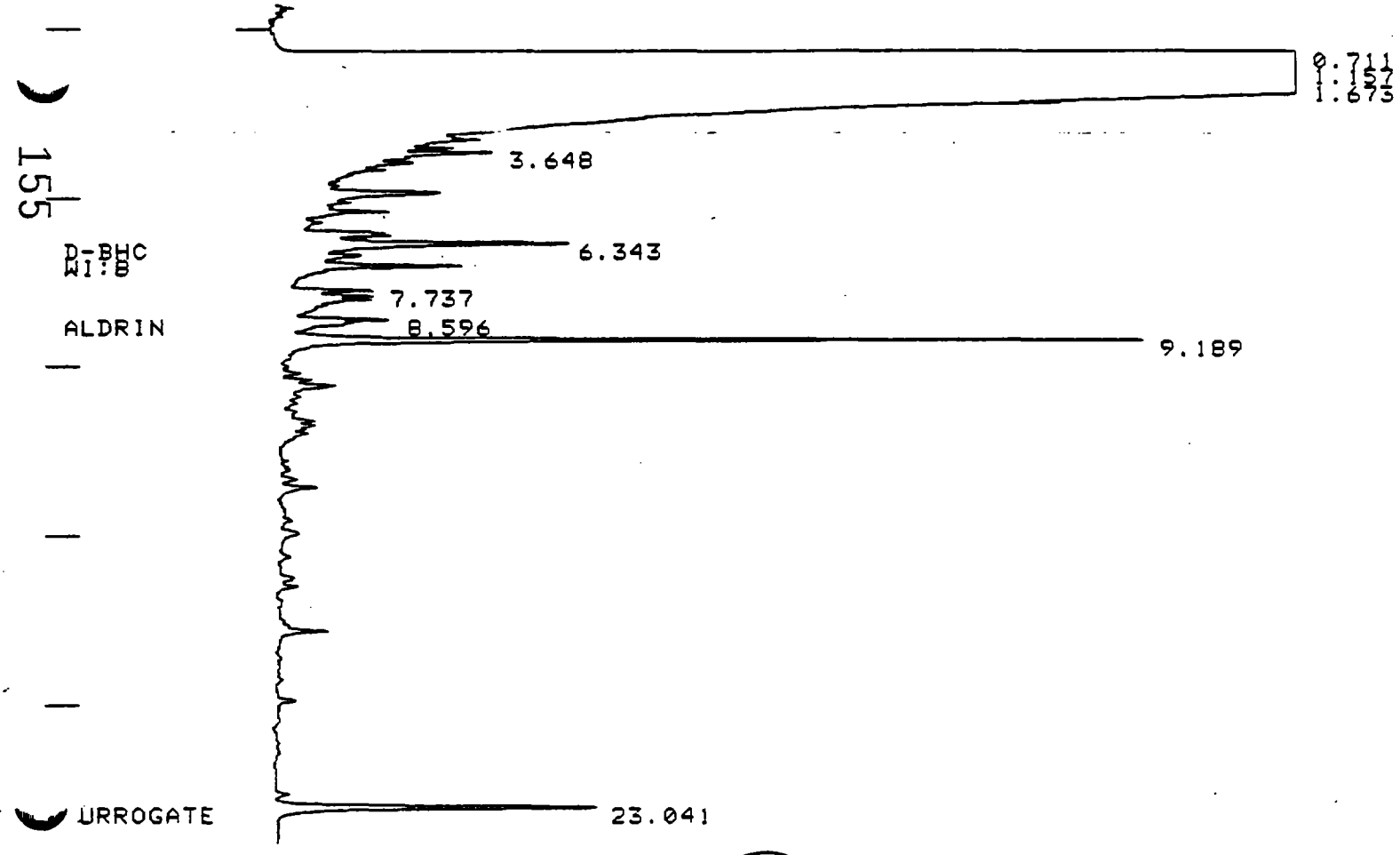
RACK: 2 VIAL: 3 INJ: 1

S^ TD FILE: P1963

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC =2

104

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



155

200 µl/400 µl

TITLE: RUN# 6 08-14 22:09 22 OCT 85

CHANNEL NO: 1 SAMPLE: 15091743 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.711		4235280	0.08	BV		18.00
2		0.0000	1.157		1508220	0.13	VV	?	1.70
3		0.0000	1.673		384106	0.18	VB	?	4.20
4		0.0000	3.648		10929	0.40	BB	?	3.00
5	D-BHC	0.1645	6.343	0.433	44053	0.69	BB	?	6.30
6		0.0000	7.007		25670	0.76	BB		4.70
7	HEPT	0.0372	7.737	0.167	8603	0.84	BB	?	5.60
8		0.0000	8.596		6852	0.93	BB	?	4.40
9	ALDRIN	0.3917	9.189	0.269	132138	1.00	BB	?	2.20
10	SURROGATE	0.2754	23.041	-0.529	71025	2.51	BB		6.65
TALS:		0.8688		0.340	6426880				

DETECTED PKS: 10 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 190.6 OFFSET: -8

[illegible] #6 SPB-5 / 2ul injected / 0.32 mm ID x 30 M RWL

varian · sunnyvale, calif p n 03 906362 00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-15 15090510

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/13/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 25

CAS Number		ug / PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.5
11104-28-2	Aroclor-1221	< 2.5
11141-16-5	Aroclor-1232	< 2.5
53469-21-9	Aroclor-1242	10
12672-29-6	Aroclor-1248	< 2.5
11097-69-1	Aroclor-1254	< 5.0
11096-82-5	Aroclor-1260	< 5.0

V_i = Volume of extract injected (ul)

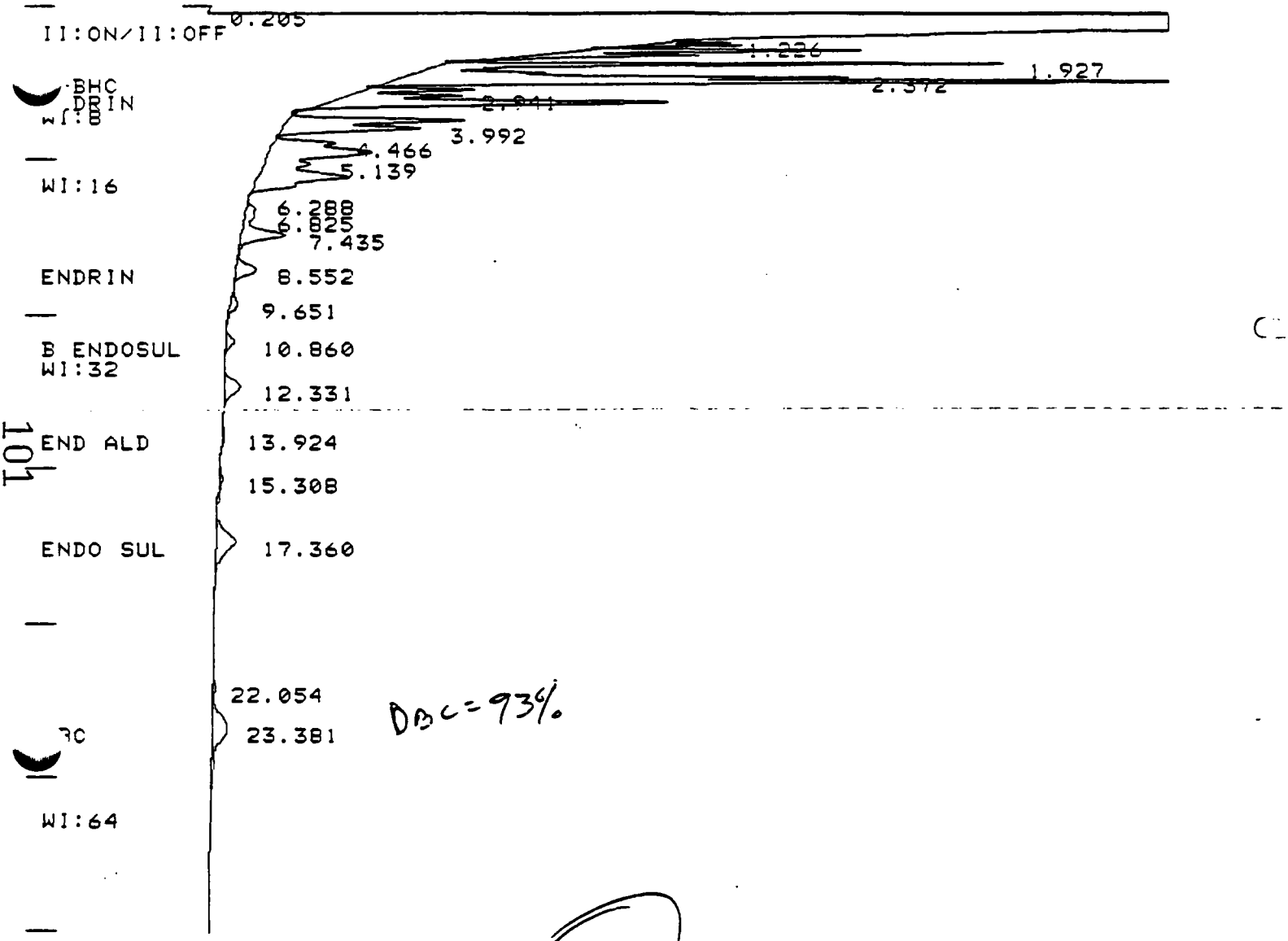
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



101

1/25

TITLE: RUN # 31 68-15 7:35 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090510 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.279		157770	VV	?	2.00
2		0.0000	0.354		148681	VB	?	5.30
3		0.0000	0.686		15023	BB	?	1.35
4		0.0000	1.226		1217	BV		2.70
5		0.0000	1.318		1890	VV		2.75
6		0.0000	1.498		4697	VV		5.00
7	A-BHC	0.0022	1.643	0.023	2941	VV		3.85
8		0.0000	1.927		8797	VV		4.50
9	G-BHC	0.0013	2.064	0.014	1167	VV	?	5.00
10		0.0000	2.187		2084	VV	?	4.70
11	E-BHC	0.0209	2.372	0.012	7061	VV	?	6.70
12		0.0000	2.504		15253	VV		5.70
13	I-E-C	0.0031	2.[illegible]	0.007	1813	VV		2.25

varian /sunnyvale, calif. p/n 03-906362-00

WI:64

1/25

1242 = 6.27 Ht. x 0.066 µg/mlHt. x 1ml x 25 = 10 µg

68-15

TITLE: RUN # 31 7:35 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090510 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.279		157770	VV	?	2.00
2		0.0000	0.354		148681	VB	?	5.30
3		0.0000	0.686		15023	BB	?	1.35
4		0.0000	1.226		1217	VV		2.70
5		0.0000	1.318		1890 Indet	VV		2.75
6		0.0000	1.498		4697	VV		5.00
7	A-BHC	0.0022	~~1.643~~	0.023	~~2541~~	VV		3.85
8		0.0000	1.927		8797	VV		4.50
9	G-BHC	0.0013	~~2.064~~	0.014	~~1167~~	VV	?	5.00
10		0.0000	2.187		2084	VV	?	4.70
11	B-BHC	0.0209	2.372	0.012	7061	VV	?	6.70
12		0.0000	2.504		15293	VV		5.70
13	D-BHC	0.0031	2.747	0.007	1813	VV		6.25
14	ALDRIN	0.0028	2.941	-0.069	1897	VV		6.35
5		0.0000	3.167		5399	VV		9.15
16		0.0000	3.733	H=6.27	2748	VV		10.00
17		0.0000	3.992		2154	VV		11.95
18		0.0000	4.466		978	VV	?	10.70
19		0.0000	4.757		1614	VV	?	20.00
20		0.0000	5.139		732	VV	?	12.30
21		0.0000	5.562		1379	VV	?	14.30
22	A ENDOSUL	0.0022	5.836	0.056	660	VV	?	10.05
23		0.0000	6.610		156	VV	?	13.90
24	DIELDRIN	0.0006	6.825	-0.285	159	VV	?	17.95
25		0.0000	7.435		681	VV		16.55
26	ENDRIN	0.0019	8.552	-0.078	327	VV		19.95
27		0.0000	9.651		108	VV		18.60
28	B ENDOSUL	0.0008	10.860	0.260	118	VB		24.25
29		0.0000	12.331		242	BB		32.40
30	ENDO SUL	0.0051	17.360	0.080	280	BB		39.60
31	DBC	0.0037	23.381	0.331	232	VB		50.60
TOTALS:		0.0446		0.351	388298			

DETECTED PKS: 36 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -96

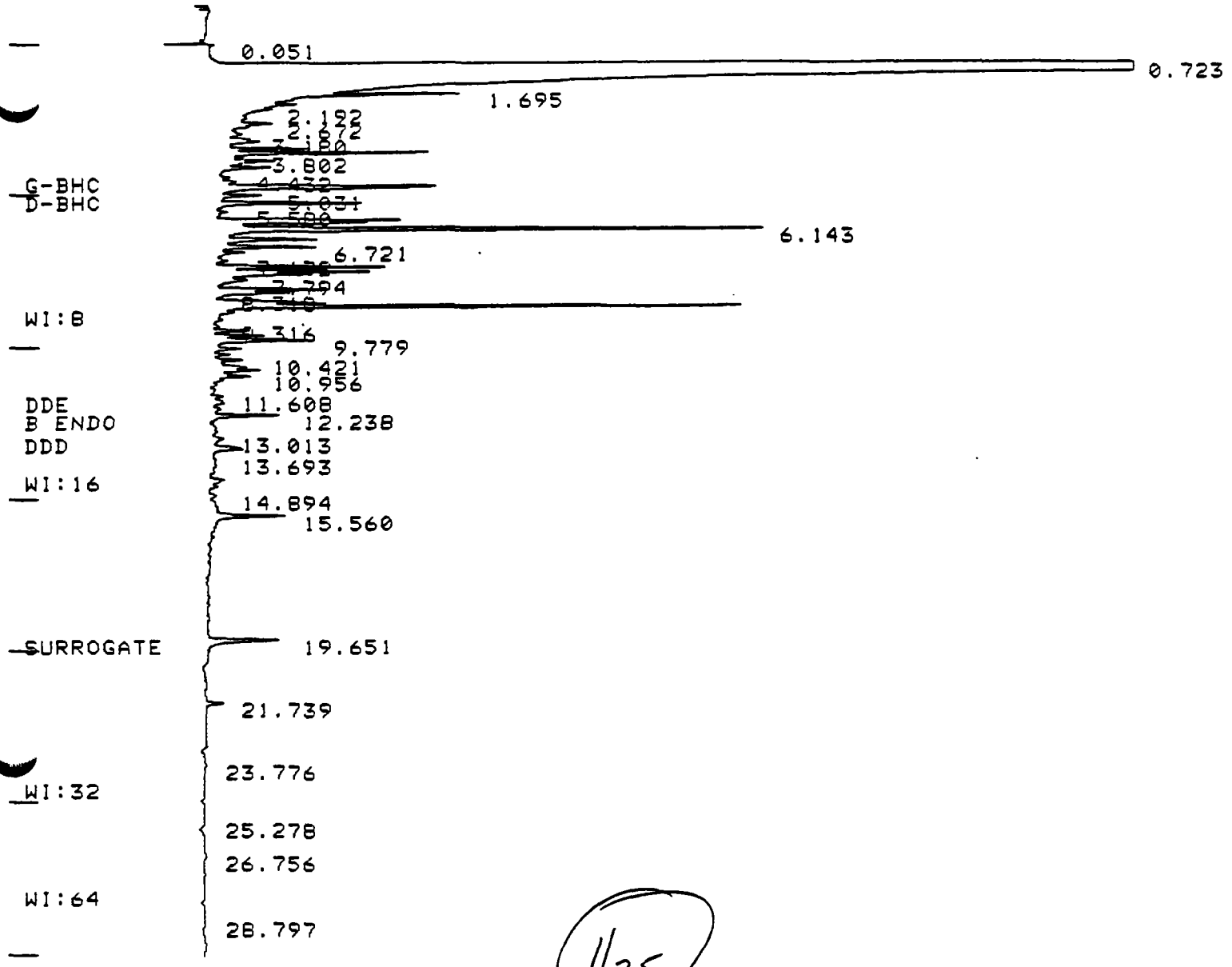
RACK: 2 VIAL: 2 INJ: 1

SAVED FILE: P1258

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale,calif.p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



1/25

08-15

TITLE: RUN# 13 22:16 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090510 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.723		1856620	0.09	BV		6.55
2		0.0000	1.695		13717	0.22	T		5.20
3		0.0000	2.031		3238	0.26	T	?	5.20
4		0.0000	2.192		1470	0.28	T	?	3.10
5		0.0000	2.672		5139	0.34	BV	?	2.65
6		0.0000	2.778		1568	0.36	VB	?	3.10
7		0.0000	3.005		2313	0.39	BV		5.75
8		0.0000	3.180		2562	0.41	VV	?	3.70
9		0.0000	3.261		5196	0.42	VV	?	5.15
10		0.0000	3.498		10211	0.45	VV		3.30
11	G-BHC	0.0061	3.630	-0.070	26616	0.47	VV		3.65
12		0.0000	3.802		2452	0.49	VV	?	4.25
13		0.0000	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]

varian /sunnyvale, calif. p/n 03-906362-00

TITLE: RUN# 13 08-15 22:16 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090510 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.723		1856620	0.09	BV		6.55
2		0.0000	1.695		13717	0.22	T		5.20
3		0.0000	2.031		3238	0.26	T	?	5.20
4		0.0000	2.192		1470	0.28	T	?	3.10
5		0.0000	2.672		5139	0.34	BV	?	2.65
6		0.0000	2.778		1568	0.36	VB	?	3.10
7		0.0000	3.005		2313	0.39	BV		5.75
8		0.0000	3.180		2562	0.41	VV	?	3.70
9		0.0000	3.261		5196	0.42	VV	?	5.15
10		0.0000	3.498		10211	0.45	VV		3.30
11	A-BHC	0.0061	3.630	-0.070	26616	0.47	VV		3.65
12		0.0000	3.802		2482	0.49	VV	?	4.25
13		0.0000	3.907		8970	0.50	VV		4.25
14		0.0000	3.998		1590	0.51	VV	?	4.90
15	B-BHC	0.0058	4.118	-0.232	7746	0.53	VB		3.80
16		0.0000	4.432		1259	0.57	BV		3.40
17	G-BHC	0.0005	4.572	0.062	1926	0.59	VV	?	3.30
18		0.0000	4.607		1105	0.59	VV	?	
19		0.0000	4.746		48342	0.61	VV		6.65
20		0.0000	5.031		6591	0.64	VV		3.90
21	D-BHC	0.0068	5.279	0.079	22440	0.68	VV		4.15
22		0.0000	5.580		1454	0.72	VV		3.80
23		0.0000	5.844		22587	0.75	VV	?	3.30
24		0.0000	5.920		20423	0.76	VV	?	4.90
25		0.0000	6.143		99225	0.79	VV		4.95
26		0.0000	6.468		19183	0.83	VV		4.85
27	HEPT	0.0068	6.721	0.061	15603	0.86	VV		3.85
28		0.0000	6.896		5335	0.88	VV		4.30
29		0.0000	7.172		2351	0.92	VV		4.55
30		0.0000	7.369		22915	0.94	VV		3.85
31		0.0000	7.516		21610	0.96	VV		4.25
32		0.0000	7.613		14800	0.98	VV	?	5.50
33	ALDRIN	0.0029	7.794	-0.036	9886	1.00	VV	?	9.00
34		0.0000	8.103		16681	1.04	VV		4.35
35		0.0000	8.218		12527	1.05	VV	?	5.65
36		0.0000	8.318		1110	1.07	VV	?	6.70
37		0.0000	8.550		20601	1.10	VV	?	6.50
38		0.0000	8.660		69970	1.11	VV		3.35
39		0.0000	8.854		1342	1.14	T	?	5.60
40	HEPT EP	0.0017	9.466	0.076	4536	1.22	VV		3.75
41		0.0000	9.631		7231	1.24	VV		4.15
42		0.0000	9.779		17818	1.25	VV		5.00
43		0.0000	10.044		4492	1.29	VV		4.35
44		0.0000	10.231		2466	1.31	VV		3.85
45		0.0000	10.421		4438	1.34	VV		4.10
46		0.0000	10.529		1572	1.35	VV	?	3.10
47		0.0000	10.655		6872	1.37	VV	?	7.20
48	A ENDO	0.0026	10.753	-0.017	7038	1.38	VV	?	4.40
49		0.0000	10.858		2193	1.39	VV	?	2.60
50		0.0000	10.956		5612	1.41	VV	?	2.45
51		0.0000	11.075		1588	1.42	VV	?	4.40
52		0.0000	11.608		1609	1.49	BV		4.15
53		0.0000	11.751		1323	1.51	VV	?	4.20
54	DIELDRIN	0.0008	11.829	-0.021	2158	1.52	VV	?	4.90
55	DDE	0.0008	12.024	-0.106	2276	1.54	VV	?	9.05
56		0.0000	12.238		10438	1.57	VB		4.00
57	B ENDO	0.0011	13.013	-0.127	2607	1.67	BV		6.30
58		0.0000	13.348		8391	1.71	VV		7.95
59	DDD	0.0006	13.761	-0.139	1114	1.77	VB	?	23.90
60	END ALD	0.0017	14.371	0.361	3318	1.84	BV		7.95
61		0.0000	14.582		1472	1.87	VV	?	4.35
62	ENDO SO4	0.0008	14.894	-0.146	1656	1.91	VV		7.80
63		0.0000	15.273		3582	1.96	VV	?	23.40
64	DDT	0.0112	15.560	0.070	19240	2.00	VB		5.25
65	SURROGATE	0.0097	15.651	-0.099	21892	2.52	BB		6.30
66		0.0000	21.739		3442	2.79	BB		5.05
67		0.0000	23.776		1979	3.05	BB	?	27.20
68		0.0000	25.278		5878	3.24	BV	?	35.40
69		0.0000	26.756		4788	3.43	VB	?	53.60
70		0.0000	28.797		3749	3.69	BB	?	42.60

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-16

15091747

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/17/85

Date Analyzed: 10/18/85

Conc/Dil Factor: 10

CAS Number		ug/~~l or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	10
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

V_i = Volume of extract injected (ul)

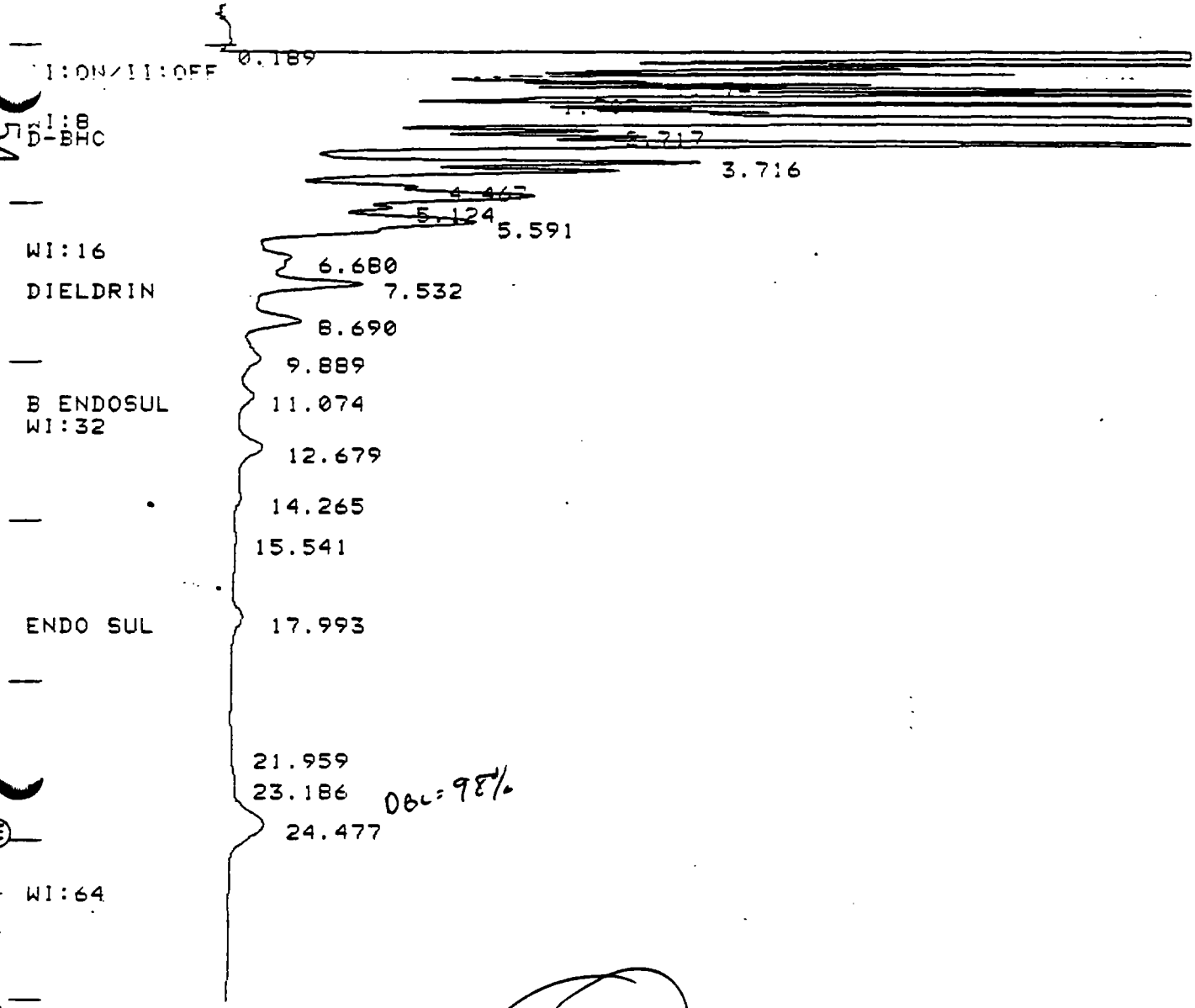
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100 µl/1ml

08-16

TITLE: RUN # 23 4:42 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091747 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		131125	VB		5.95
2		0.0000	0.649		41669	BV		2.40
3		0.0000	0.734		2967	VV	?	1.30
4		0.0000	0.790		4918	VV	?	1.20
5		0.0000	0.866		1419	VV		1.60
6		0.0000	0.956		7466	VB		2.40
7		0.0000	1.174		2980	BV		3.40
8		0.0000	1.282		6428	VV		4.20
9		0.0000	1.452		12489	VV		5.90
10	D-BHC	0.0091	1.593	0.053	12335	VV	?	6.30
11		0.0000	1.707		1754	VV	?	4.70
12		0.0000	1.580		[illegible]	[illegible]		[illegible]

varian /sunnyvale, calif p/n 03 90G362 00

sunnyvale, calif p/n 03-906362 00

100 µl/1ml

1242 = 8.62 Ht. ~~µg~~ × 0.1156 µg/ml Ht × 1ml × 10 = 10 µg
08-16

TITLE: RUN # 23 4:42 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091747 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		131125	VB		5.95
2		0.0000	0.649		41669	BV		2.40
3		0.0000	0.734		2967	VV	?	1.30
4		0.0000	0.790		4918	VV	?	1.20
5		0.0000	0.866		1419	VV		1.60
6		0.0000	0.956		7466	VB		2.40
7		0.0000	1.174		2980	BV		3.40
8		0.0000	1.282		6428	VV		4.20
9		0.0000	1.452		12489	VV		5.90
10	A-BHC	0.0091	1.593	0.053	12335	VV	?	6.30
11		0.0000	1.707		1756	VV	?	4.70
12		0.0000	1.882		20593	VV		4.35
13	G-BHC	0.0046	2.030	0.050	4370	VV	?	6.30
14		0.0000	2.142		5638	VV	?	6.60
15	B-BHC	0.0571	2.337	0.007	18305	VV	?	6.10
16		0.0000	2.468		35360	VV		5.90
17	D-BHC	0.0059	2.717	-0.003	3538	VV		6.75
18	ALDRIN	0.0073	2.912	-0.078	4419	VV	?	6.60
19		0.0000	3.143		14190	VV		9.25
20		0.0000	3.716	H= 8.62	5760	VV		9.55
21		0.0000	3.978		4622	VV		10.90
22		0.0000	4.467		1756	VV	?	10.60
23		0.0000	4.772		3603	VV	?	20.55
24		0.0000	5.124		1586	VV	?	10.10
25		0.0000	5.591		2957	VV	?	12.05
26	A ENDOSUL	0.0057	5.844	-0.116	1643	VB	?	13.20
27		0.0000	6.680		439	BV	?	15.80
28		0.0000	6.925		354	VV	?	5.40
29	DIELDRIN	0.0068	7.532	0.132	1526	VB	?	14.75
30	ENDRIN	0.0042	8.690	-0.340	730	BV		21.30
31		0.0000	9.889		256	VV		24.80
32	B ENDOSUL	0.0015	11.074	-0.106	200	VB	?	28.35
33		0.0000	12.679		378	BV		32.85
34	ENDO SUL	0.0022	17.993	-0.587	142	VB		38.90
35	DBC	0.0098	24.477	-1.053	515	VB	?	93.45
TOTALS:		0.1142		-2.041	358432			

DETECTED PKS: 40 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 37

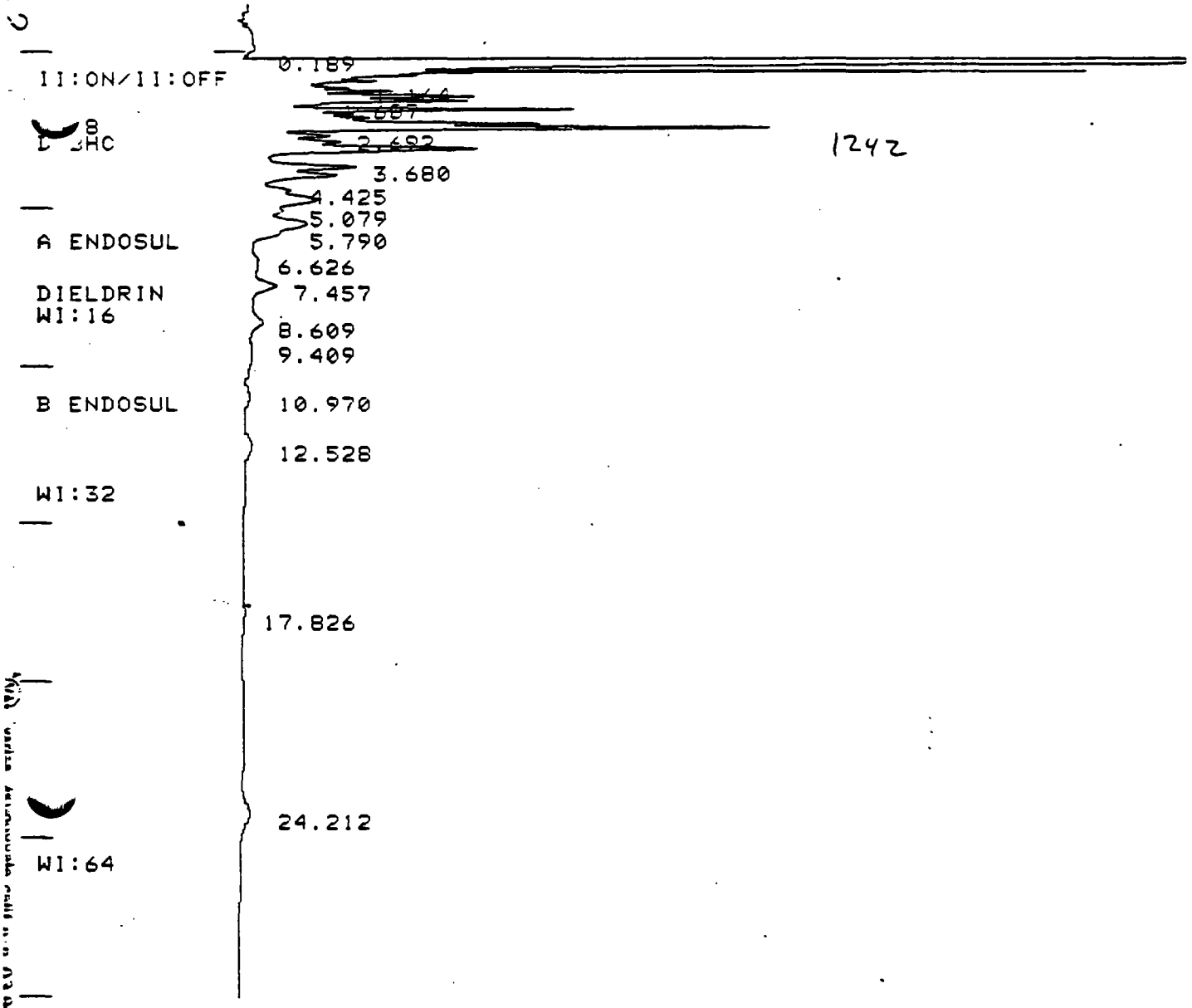
RACK: 2 VIAL: 8 INJ: 1

SAVED FILE: P1930

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC =2

55

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/50

08-16

TITLE: RUN # 24 22:28 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091747 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.283		109448	VB		4.95
2		0.0000	0.642		10255	BV		2.15
3		0.0000	0.778		543	T		1.35
		0.0000	0.862		164	T		1.55
		0.0000	0.951		667	VB		2.40
6		0.0000	1.164		592	BV		3.20
7		0.0000	1.269		1278	VV		4.15
8		0.0000	1.437		2601	VV		5.80
9	4-3-1	0.0019	1.578	0.038	2546	VV	?	6.10
10		0.0000	1.687		365	VV	?	2.95
11		0.0000	1.863		4355	VV		4.40
12	3-3-1	0.0010	2.011	0.03[illegible]	963	VV	?	6.30
13		0.0000	[illegible]		[illegible]	VV	?	[illegible]

1/50

1242 = 1.85 Ht. × 0.1099 µg/ml Ht. × 1 ml × 50 = 10 µg

08-16

TITLE: RUN # 24 22:28 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091747 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.283		109448	VB		4.95
2		0.0000	0.642		10255	BV		2.15
3		0.0000	0.778		543	T		1.35
4		0.0000	0.862		164	T		1.55
5		0.0000	0.951		667	VB		2.40
6		0.0000	1.164		592	BV		3.20
7		0.0000	1.269		1278	VV		4.15
8		0.0000	1.437		2601	VV		5.80
9	A-BHC	0.0019	1.578	0.038	2546	VV	?	6.10
10		0.0000	1.687		365	VV	?	2.95
11		0.0000	1.863		4255	VV		4.40
12	G-BHC	0.0010	2.011	0.031	962	VV	?	6.20
13		0.0000	2.120		1244	VV	?	6.40
14	B-BHC	0.0120	2.315	-0.015	3844	VV	?	6.20
15		0.0000	2.444		7380	VV		5.85
16	D-BHC	0.0013	2.692	-0.028	788	VV		6.70
17	ALDRIN	0.0016	2.885	-0.105	978	VV	?	6.70
18		0.0000	3.114	H = 1.85	3079	VV		9.45
19		0.0000	3.680		1348	VV		9.55
20		0.0000	3.940		1078	VV		11.05
21		0.0000	4.425		408	VV	?	10.30
22		0.0000	4.725		843	VV	?	20.00
23		0.0000	5.079		354	VV	?	9.50
24		0.0000	5.473		745	VV	?	16.90
25	A ENDOSUL	0.0013	5.790	-0.170	366	VB	?	8.35
26	DIELDRIN	0.0016	7.457	0.057	350	VB	?	14.55
27	ENDRIN	0.0010	8.609	-0.421	166	BV		20.60
28		0.0000	24.212		111	BB		49.10
TOTALS:		0.0217		-0.613	156758			

DETECTED PKS: 36 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 115

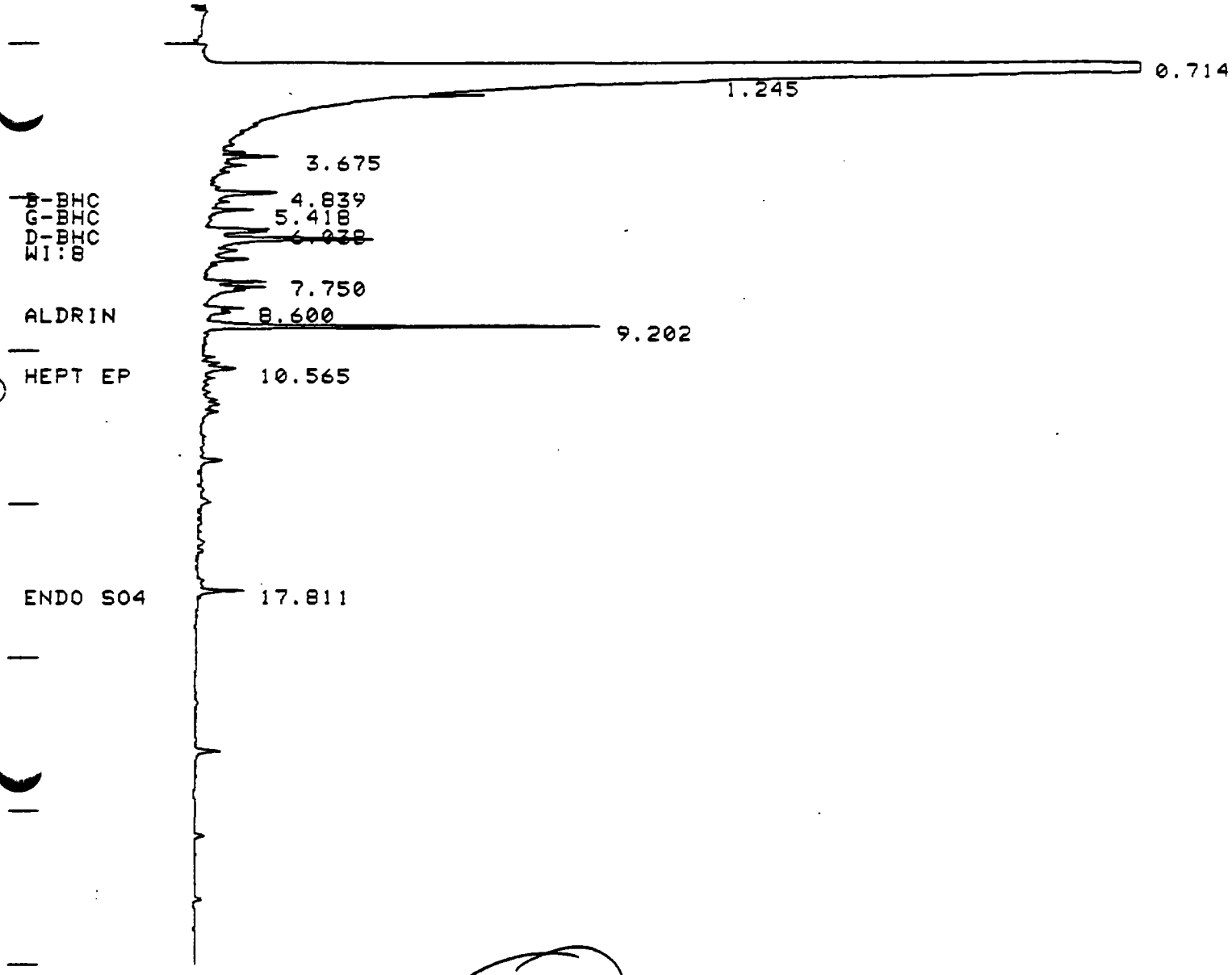
RACK: 2 VIAL: 8 INJ: 1

SAVED FILE: P1969

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED 0.5 IN/MIN

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



20 µl/ml

TITLE: RUN# 16 08-16 5:15 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091747 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.714		1333480	0.08	BV		5.00
2		0.0000	1.245		66297	0.14	VB	?	
3		0.0000	1.693		7118	0.18	BB		2.90
4		0.0000	3.675		6879	0.40	BB		4.15
5	B-BHC	0.1418	4.839	-0.141	14347	0.53	BB	?	5.95
6	G-BHC	0.0214	5.418	0.288	5942	0.59	BB		3.55
7	D-BHC	0.0285	6.038	0.128	7641	0.66	BV	?	3.50
8		0.0000	6.081		8438	0.66	VV	?	
9		0.0000	6.368		34837	0.69	VB		6.35
10		0.0000	7.016		6745	0.76	BB		4.40
11	HEPT	0.0292	7.750	0.180	6767	0.84	BV		4.10
12		0.0000	7.922		4077	0.86	VB		5.30
13		0.0000	8.600		[illegible]	[illegible]	[illegible]		[illegible]

6362.00

20 µl/ml

08-16

TITLE: RUN# 16 5:15 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091747 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.714		1333480	0.08	BV		5.00
2		0.0000	1.245		66297	0.14	VB	?	
3		0.0000	1.693		7118	0.18	BB		2.90
4		0.0000	3.675		6879	0.40	BB		4.15
5	B-BHC	0.1418	4.839	-0.141	14347	0.53	BB	?	5.95
6	G-BHC	0.0214	5.418	0.288	5942	0.59	BB		3.55
7	D-BHC	0.0285	6.038	0.128	7641	0.66	BV	?	3.50
8		0.0000	6.081		8438	0.66	VV	?	
9		0.0000	6.368		34837	0.69	VB		6.35
0		0.0000	7.016		6745	0.76	BB		4.40
11	HEPT	0.0292	7.750	0.180	6767	0.84	BV		4.10
12		0.0000	7.922		4077	0.86	VB		5.30
13		0.0000	8.600		2887	0.93	BB		4.65
14	ALDRIN	0.1911	9.202	0.282	64459	1.00	BB		4.30
15	HEPT EP	0.0239	10.565	-0.185	6322	1.15	BB	?	6.60
16	ENDO SO4	0.0240	17.811	0.131	6669	1.94	BB		4.35
TOTALS:		0.4599		0.683	1582910				

170

DETECTED PKS: 16 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -268

RACK: 2 VIAL: 1 INJ: 1

SAVED FILE: P662

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270°C @3°C/MIN

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-17 15090511

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/13/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 10

CAS Number		ug / PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	3.3
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

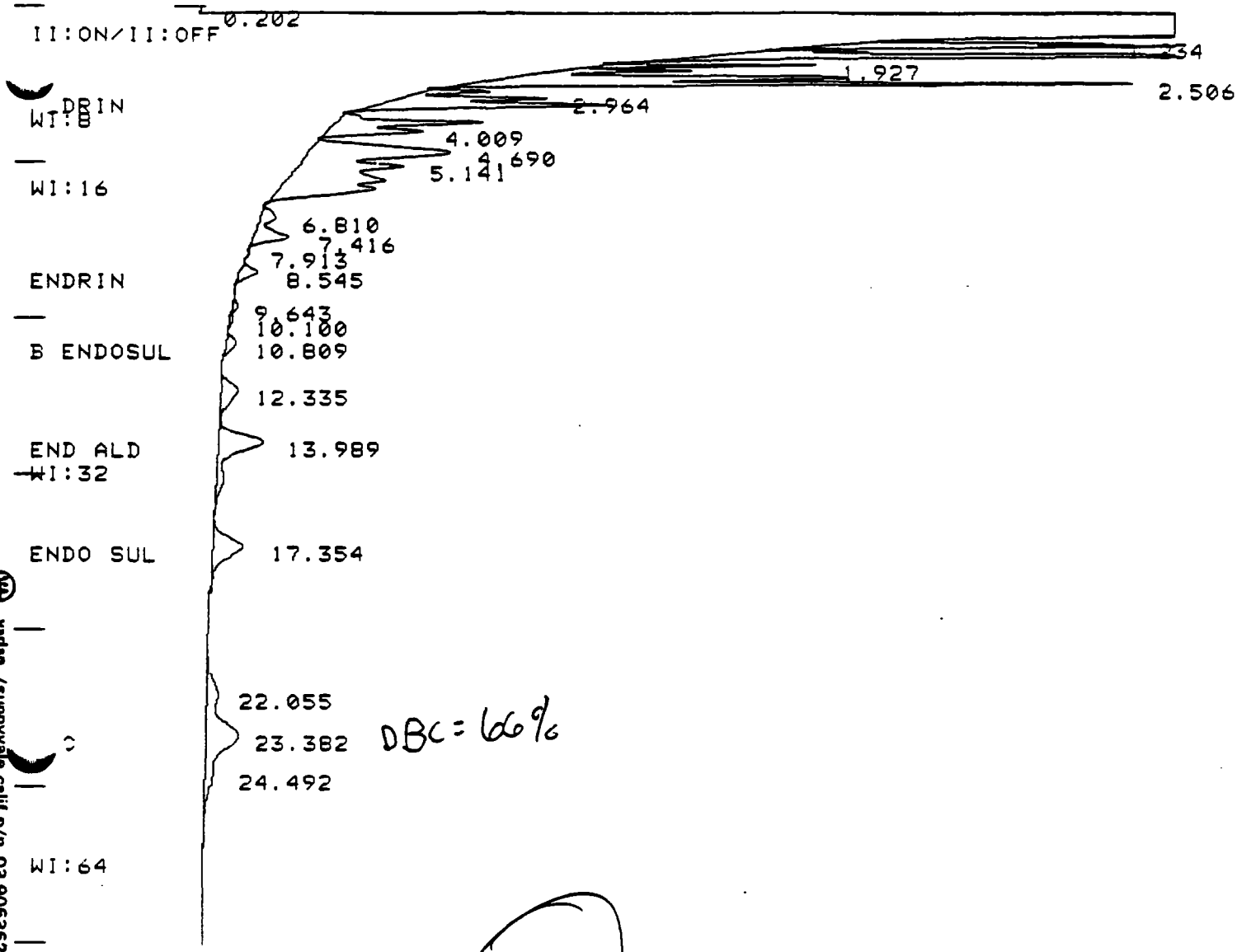
W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4

13

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



DBC = 66%

1/10

varian /sunnyvale, calif. p/n 03-906362-00

TITLE: RUN # 32 08-17 8:10 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090511 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.281		154931	VV	?	2.00
2		0.0000	0.357		143638	VB	?	5.60
3		0.0000	0.687		37389	BV	?	1.45
4		0.0000	0.822		2393	T		1.35
5		0.0000	0.911		704	T		1.45
6		0.0000	1.004		4759	VB		2.10
7		0.0000	1.234		3978	BV	?	3.50
8		0.0000	1.323		6590	VV		4.80
9		0.0000	1.501		1985	VV		3.20
10	A-BHC	0.0080	1.635	0.015	10484	VV	?	6.55
11		0.0000	1.927		3522	VV		4.00
12	G-BHC	0.0023	2.083	0.033	2141	VV		4.40
13	E-BHC	0.0157	2.317	-0.043	5311	VV		8.75

unnyvale, calif.p/n 03-906362-00

22.055
DBC 23.382 DBC = 66%
24.492

:64

Factor = ~~0.068~~ 0.069
peak at 4.40 min is missing in sample. As is the peak at 1.74 min.

1/10

1242 = 4.81 Ht. x 0.069 µg/ml Ht x 1 ml x 10 = 3.3 µg

TITLE: RUN # 32 08-17 8:10 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090511 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.281		154931	VV	? 2.00
2		0.0000	0.357		143638	VB	? 5.60
3		0.0000	0.687		37389	BV	? 1.45
4		0.0000	0.822		2393	T	1.35
5		0.0000	0.911		704	T	1.45
6		0.0000	1.004		4759	VB	2.10
7		0.0000	1.234		3978	BV	? 3.50
8		0.0000	1.323		6590	VV	4.80
9		0.0000	1.501		1985	VV	3.20
10	A-BHC	0.0080	~~1.635~~	0.015	~~10484~~	VV	? 6.55
11		0.0000	1.927		3522	VV	4.00
12	G-BHC	0.0023	~~2.083~~	0.033	~~2141~~	VV	4.40
13	B-BHC	0.0157	2.317	-0.043	5311	VV	8.75
14		0.0000	2.506		10287	VV	5.20
15	D-BHC	0.0019	2.742	0.002	1123	VV	6.30
16	ALDRIN	0.0035	2.964	-0.046	2349	VV	7.15
17		0.0000	3.171		3575	VV	8.65
18		0.0000	3.536	H = 4.81	323	VV	? 7.90
19		0.0000	3.735		2256	VV	9.35
20		0.0000	4.009		1497	VV	11.70
21		0.0000	4.690		2188	VV	? 23.95
22		0.0000	5.141		1637	VV	? 16.85
23		0.0000	5.589		1530	VV	? 29.10
24	A ENDOSUL	0.0049	5.865	0.085	1491	VV	? 11.85
25	DIELDRIN	0.0010	6.810	-0.300	252	VV	22.40
26		0.0000	7.416		557	VV	16.20
27	ENDRIN	0.0015	8.545	-0.085	258	VB	18.90
28		0.0000	9.643		100	BV	16.75
29	B ENDOSUL	0.0011	10.809	0.209	168	VB	22.85
30		0.0000	12.335		251	BV	? 35.50
31	END ALD	0.0103	13.989	-0.121	678	VV	? 32.05
32		0.0000	15.146		122	VV	26.40
33	ENDO SUL	0.0081	17.354	0.074	446	VB	40.15
34		0.0000	22.055		171	BV	? 50.70
35	DBC	0.0079	23.382	0.332	498	VV	54.50
36		0.0000	24.492		108	VB	? 59.20
TOTALS:		0.0662		0.155	409690		

ECTED PKS: 39 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -112

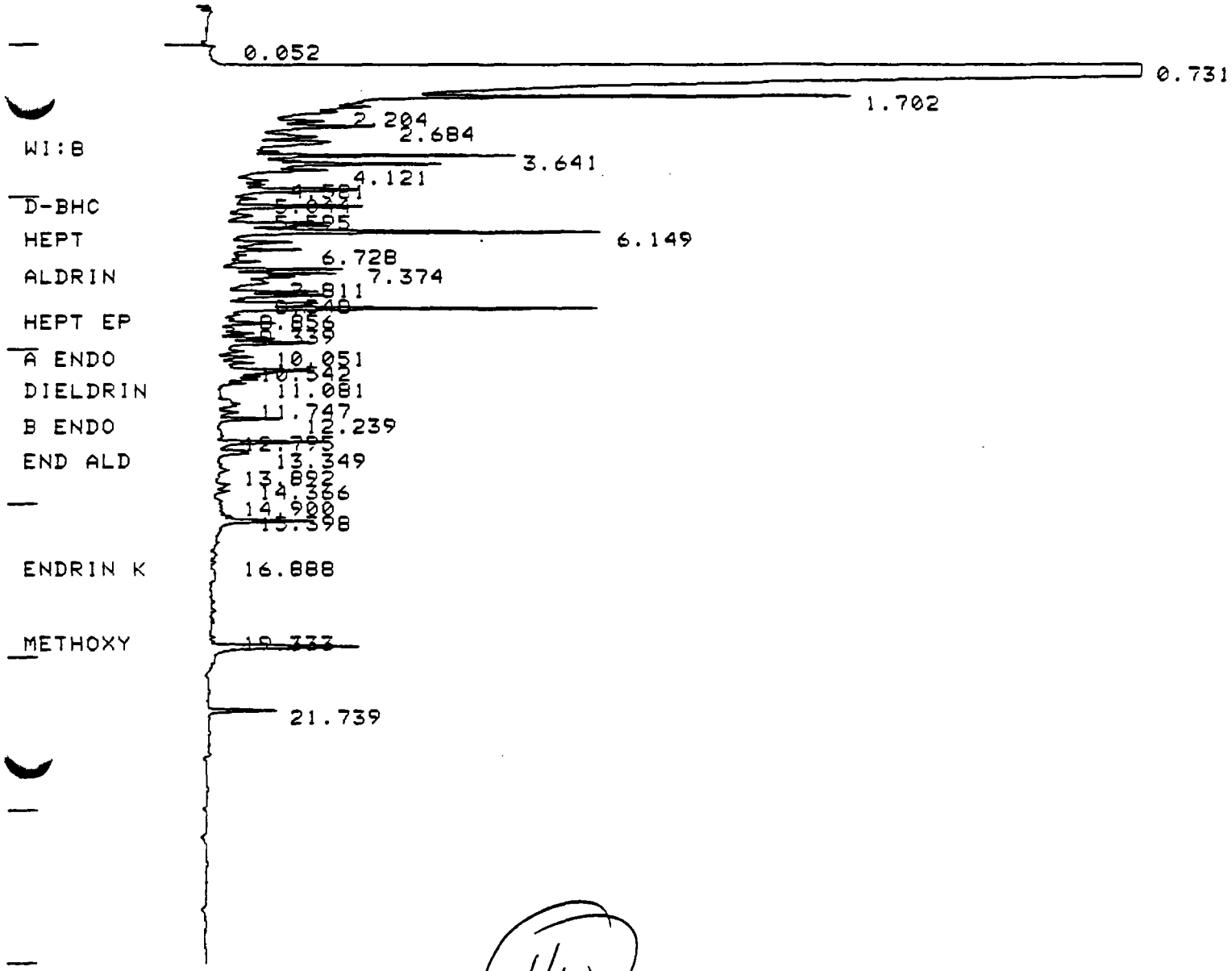
RACK: 2 VIAL: 3 INJ: 1

SAVED FILE: F1259

GC#2, 1.5% SP2350, 1.95% SP2401, 4 ul

104

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



1/10

TITLE: RUN# 14 08-17 22:52 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090511 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		2429	0.01	BB	?	3.00
2		0.0000	0.731		2531590	0.09	BV		7.10
3		0.0000	1.702		121966	0.22	VV		3.90
4		0.0000	1.892		31885	0.24	VV	?	2.20
5		0.0000	2.034		40713	0.26	VV	?	5.25
6		0.0000	2.204		41292	0.28	VV	?	4.10
7		0.0000	2.512		27007	0.32	VV	?	6.70
8		0.0000	2.684		49058	0.34	VV	?	7.20
9		0.0000	2.949		10839	0.38	VV	?	5.90
10		0.0000	3.027		22613	0.39	VV	?	9.45
11		0.0000	3.192		17470	0.41	[illegible]	?	5.90
12		0.0000	3.227		33675	0.41	[illegible]	?	14.90

varian /sunnyvale, calif. p/n 03-906362-00

TITLE: RUN# 14 08-17 22:52 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090511 METHOD: 6B P

PEAK	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
		0.0000	0.052		2429	0.01	BB	?	3.00
2		0.0000	0.731		2531590	0.09	BV		7.10
3		0.0000	1.702		121966	0.22	VV		3.90
4		0.0000	1.892		31885	0.24	VV	?	2.20
5		0.0000	2.034		40713	0.26	VV	?	5.25
6		0.0000	2.204		41292	0.28	VV	?	4.10
7		0.0000	2.512		27007	0.32	VV	?	6.70
8		0.0000	2.684		49058	0.34	VV	?	7.20
9		0.0000	2.949		10839	0.38	VV	?	5.90
10		0.0000	3.027		22613	0.39	VV	?	9.45
11		0:0000	3.192		17470	0.41	VV	?	5.90
12		0.0000	3.227		22675	0.41	VV	?	14.90
13		0.0000	3.390		5148	0.43	VV	?	
14		0.0000	3.505		10312	0.45	VV	?	4.60
15	A-BHC	0.0105	3.641	-0.059	45730	0.47	VV	?	2.55
16		0.0000	3.817		12296	0.49	VV	?	6.10
17		0.0000	3.921		40631	0.50	VV		5.35
18		0.0000	4.037		7935	0.52	VV	?	1.30
19	B-BHC	0.0200	4.121	-0.229	26958	0.53	VV	?	5.35
20	G-BHC	0.0035	4.446	-0.064	13507	0.57	VV	?	10.80
21		0.0000	4.581		9744	0.59	VV	?	4.90
22		0.0000	4.755		38872	0.61	VV	?	5.35
23		0.0000	5.044		7324	0.65	VV	?	6.90
24		0.0000	5.109		1985	0.65	VV	?	
25	D-BHC	0.0007	5.156	-0.044	2349	0.66	VV	?	
26		0.0000	5.302		29314	0.68	VV		5.10
27		0.0000	5.595		11127	0.72	VV		10.50
28		0.0000	5.856		13464	0.75	VV	?	3.80
29		0.0000	5.935		15358	0.76	VV	?	5.55
30		0.0000	6.149		75142	0.79	VV		4.95
		0.0000	6.318		2048	0.81	VV	?	
32		0.0000	6.473		14090	0.83	VV		6.20
33		0.0000	6.553		4138	0.84	VV	?	
34	HEPT	0.0063	6.728	0.068	14420	0.86	VV		4.35
35		0.0000	6.905		4448	0.88	VV	?	4.60
36		0.0000	6.996		3373	0.90	VV	?	2.80
37		0.0000	7.112		7548	0.91	VV	?	3.35
38		0.0000	7.374		18705	0.94	VV		4.40
39		0.0000	7.522		15684	0.96	VV		4.25
40		0.0000	7.625		12203	0.98	VV	?	6.85
41	ALDRIN	0.0058	7.811	-0.019	20014	1.00	VV	?	15.70
42		0.0000	8.109		13777	1.04	VV		4.25
43		0.0000	8.232		16743	1.05	VV		4.95
44		0.0000	8.348		3425	1.07	VV	?	2.60
45		0.0000	8.490		16086	1.09	VV	?	5.20
46		0.0000	8.553		10047	1.10	VV	?	1.25
47		0.0000	8.665		49690	1.11	VV		3.60
48		0.0000	8.856		3878	1.13	VV	?	9.55
49		0.0000	9.001		2418	1.15	VV	?	5.80
50		0.0000	9.142		9059	1.17	VV		4.95
51	HEPT EP	0.0013	9.339	-0.051	3436	1.20	VV	?	9.50
52		0.0000	9.471		4808	1.21	VV		4.35
53		0.0000	9.635		8315	1.23	VV		4.95
54		0.0000	9.783		18187	1.25	VV		5.85
55		0.0000	10.051		4637	1.29	VV		6.70
56		0.0000	10.242		4846	1.31	VV		4.30
57		0.0000	10.425		5027	1.34	VV		4.60
58		0.0000	10.542		1464	1.35	VV	?	3.50
59		0.0000	10.673		16231	1.37	VV		5.65
60	A ENDO	0.0023	10.755	-0.015	6031	1.38	VV	?	6.15
		0.0000	10.863		5525	1.39	VV	?	3.60
62		0.0000	10.959		4940	1.40	VV	?	3.75
63		0.0000	11.081		3572	1.42	VB		5.10
64		0.0000	11.747		5804	1.50	VV	?	14.50
65	DIELDRIN	0.0009	11.832	-0.018	2227	1.51	VV	?	3.85
66	DDE	0.0015	12.033	-0.097	3940	1.54	VV		4.90
67		0.0000	12.239		10094	1.57	VV		4.25
68	ENDRIN	0.0008	12.675	-0.025	1683	1.62	VV	?	13.90
69		0.0000	12.755		1756	1.64	V	?	8.25

varian /sunnyvale calif.p/n 03-906362-00

Run #14

08-17
1509 0511

31		0.0000	6.318		2048	0.81	VV		
32		0.0000	6.473		14090	0.83	VV		6.20
33		0.0000	6.553		4138	0.84	VV	?	
34	HEPT	0.0063	6.728	0.068	14420	0.86	VV		4.35
35		0.0000	6.905		4448	0.88	VV	?	4.60
36		0.0000	6.996		3373	0.90	VV	?	2.80
37		0.0000	7.112		7548	0.91	VV	?	3.35
38		0.0000	7.374		18705	0.94	VV		4.40
39		0.0000	7.522		15684	0.96	VV		4.25
40		0.0000	7.625		12203	0.98	VV	?	6.85
41	ALDRIN	0.0058	7.811	-0.019	20014	1.00	VV	?	15.70
42		0.0000	8.109		13777	1.04	VV		4.25
43		0.0000	8.232		16743	1.05	VV		4.95
44		0.0000	8.348		3425	1.07	VV	?	2.60
45		0.0000	8.490		16086	1.09	VV	?	5.20
46		0.0000	8.553		10047	1.10	VV	?	1.25
47		0.0000	8.665		49690	1.11	VV		3.60
48		0.0000	8.856		3878	1.13	VV	?	9.55
49		0.0000	9.001		2418	1.15	VV	?	5.80
50		0.0000	9.142		9059	1.17	VV		4.95
51	HEPT EP	0.0013	9.339	-0.051	3436	1.20	VV	?	9.50
52		0.0000	9.471		4808	1.21	VV		4.35
53		0.0000	9.635		8315	1.23	VV		4.95
54		0.0000	9.783		18187	1.25	VV		5.85
55		0.0000	10.051		4637	1.29	VV		6.70
56		0.0000	10.242		4846	1.31	VV		4.30
57		0.0000	10.425		5027	1.34	VV		4.60
58		0.0000	10.542		1464	1.35	VV	?	3.50
59		0.0000	10.673		16231	1.37	VV		5.65
60	A ENDO	0.0023	10.755	-0.015	6031	1.38	VV	?	6.15
61		0.0000	10.863		5525	1.39	VV	?	3.60
62		0.0000	10.959		4940	1.40	VV	?	3.75
63		0.0000	11.081		3572	1.42	VB		5.10
64		0.0000	11.747		5804	1.50	VV	?	14.50
65	DIELDRIN	0.0009	11.832	-0.018	2227	1.51	VV	?	3.85
66	DDE	0.0015	12.033	-0.097	3940	1.54	VV		4.90
67		0.0000	12.239		10094	1.57	VV		4.25
68	ENDRIN	0.0008	12.675	-0.025	1683	1.62	VV	?	13.90
69		0.0000	12.795		1756	1.64	VV	?	8.25
70	B ENDO	0.0082	12.999	-0.141	18919	1.66	VV		4.25
71		0.0000	13.349		10156	1.71	VV		8.55
72		0.0000	13.699		2179	1.75	VV		6.05
73	DDD	0.0027	13.892	-0.008	5095	1.78	VV		7.85
74	END ALD	0.0015	14.366	-0.336	2926	1.84	VV	?	4.40
75		0.0000	14.423		1425	1.85	VV	?	7.40
76		0.0000	14.577		2696	1.87	VB		4.25
77		0.0000	14.900		1507	1.91	BV	?	7.60
78	ENDO S04	0.0011	15.136	0.096	2178	1.94	VV	?	10.80
79		0.0000	15.278		1131	1.96	VV	?	5.40
80		0.0000	15.398		2240	1.97	VV	?	6.00
81	DDT	0.0096	15.562	0.072	16611	1.99	VB	?	2.80
82	SURROGATE	0.0143	19.652	-0.098	32283	2.52	VB		6.25
83		0.0000	21.739		10173	2.78	BB		4.50
TOTALS:		0.0910		-0.276	3750570				

DETECTED PKS: 87 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 9.7 OFFSET: -193

RACK: 1 VIAL: 9 INJ: 1

SAVED FILE: P792

NOTES:

#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

60

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-18 15090512

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/13/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 10

CAS Number		ug /PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	2.0
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

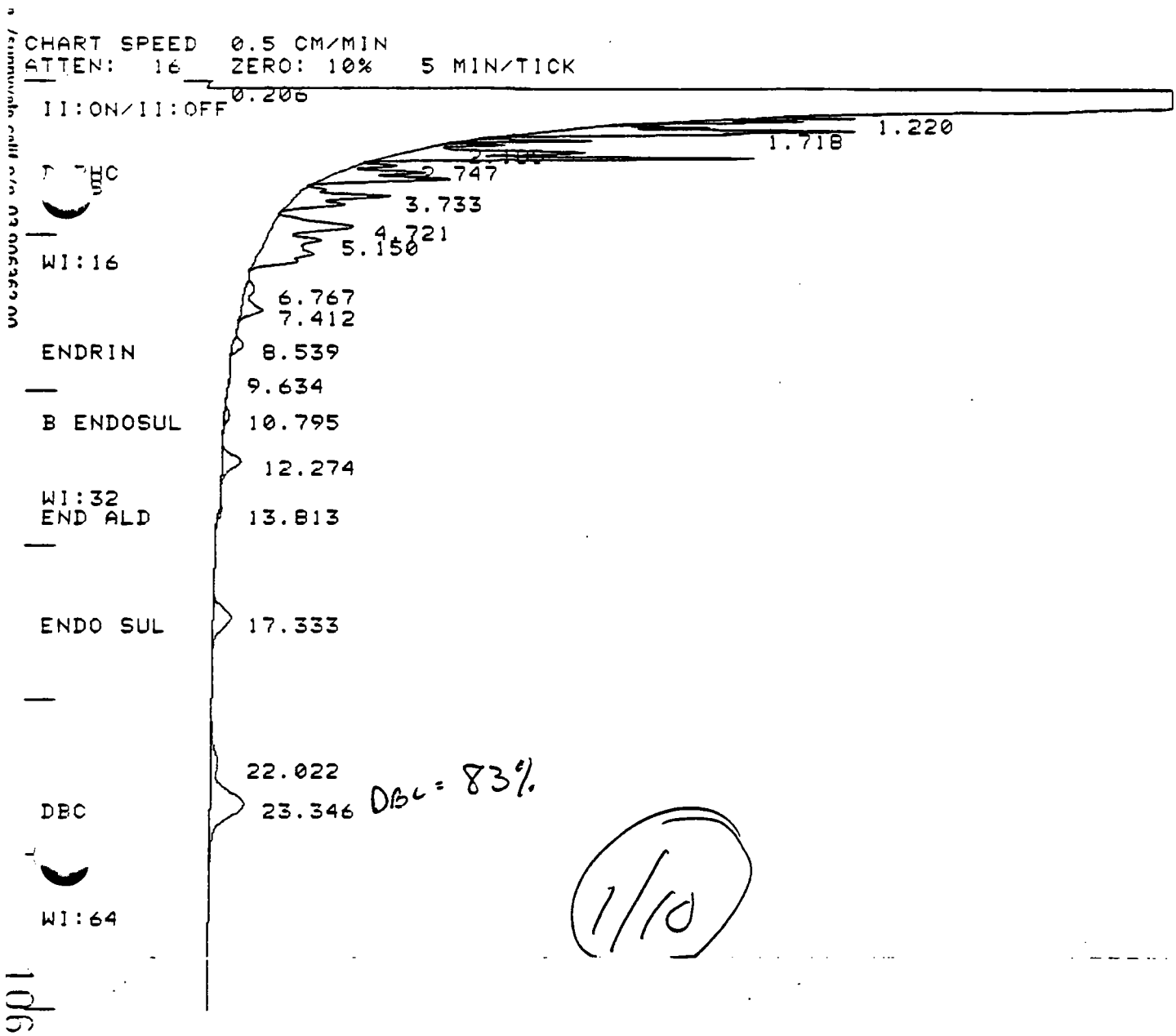
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4



08-18

TITLE: RUN # 33 8:44 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090512 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		155789	VV	?	2.00
2		0.0000	0.355		148170	VB	?	5.40
3		0.0000	0.687		31267	BV	?	1.35
4		0.0000	0.820		1894	T		1.15
5		0.0000	1.220		1819	BV		2.65
6		0.0000	1.317		1997	VV		2.60
[illegible]		0.0000	1.500		1919	VV		3.55
[illegible]	A-BHC	0.0036	1.637	0.017	4780	VV		6.20
9		0.0000	1.718		3420	VV	?	4.25
10		0.0000	1.923		1957	VV		3.70
11	G-BHC	0.0011	2.069	0.019	986	VV		3.85
12		0.0000	2.185		363	VV	?	3.20
13	E-B-[illegible]	0.0051	2.302	-0.055	2732	VV		6.45
14		0.0000	2.504		5747	VV		5.20
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

WI:64

(1/10)

Factor = 0.068
peak missing at
4.40min in Sample.

1242 · 2.91 Ht. x 0.068 x 1ml x 10 = 2.0 µg

08-18

TITLE: RUN # 33 8:44 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090512 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		155789	VV	?	2.00
2		0.0000	0.355		148170	VB	?	5.40
3		0.0000	0.687		31267	BV	?	1.35
4		0.0000	0.820		1894	T		1.15
5		0.0000	1.220		1819	BV		2.65
6		0.0000	1.317		1997	VV		2.60
7		0.0000	1.500		1919	VV		3.55
8	A-BHC	0.0036	~~1.637~~	0.017	~~4780~~	VV		6.20
9		0.0000	1.718		3420	VV	?	4.25
10		0.0000	1.923		1957	VV		3.70
11	G-BHC	0.0011	~~2.069~~	0.019	~~986~~	VV		3.85
12		0.0000	2.185		363	VV	?	3.20
	B-BHC	0.0081	2.302	-0.058	2732	VV		8.45
		0.0000	2.504		5747	VV		5.20
15	D-BHC	0.0011	2.747	0.007	652	VV		6.10
16	ALDRIN	0.0020	2.963	-0.047	1331	VV		6.85
17		0.0000	3.172		1932	VV		8.20
18		0.0000	~~3.519~~	H = 2.91	~~367~~	VV	?	7.50
19		0.0000	3.733		1431	VV		9.55
20		0.0000	3.992		886	VV	?	10.20
21		0.0000	4.721		1247	VV	?	19.00
22		0.0000	5.150		858	VV	?	12.60
23		0.0000	5.596		858	VV	?	29.40
24	A ENDOSUL	0.0022	5.829	0.049	668	VB	?	10.40
25		0.0000	6.767		136	BV	?	23.05
26	DIELDRIN	0.0013	7.412	0.302	330	VB		17.60
27	ENDRIN	0.0009	8.539	-0.091	162	BB		18.95
28		0.0000	12.274		294	BB		30.05
29	ENDO SUL	0.0050	17.333	0.053	278	BB		40.65
30		0.0000	22.022		121	BV	?	55.20
31	DBC	0.0083	23.346	0.296	524	VB		54.85
TOTALS:		0.0336		0.547	374915			

DETECTED PKS: 35 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -106

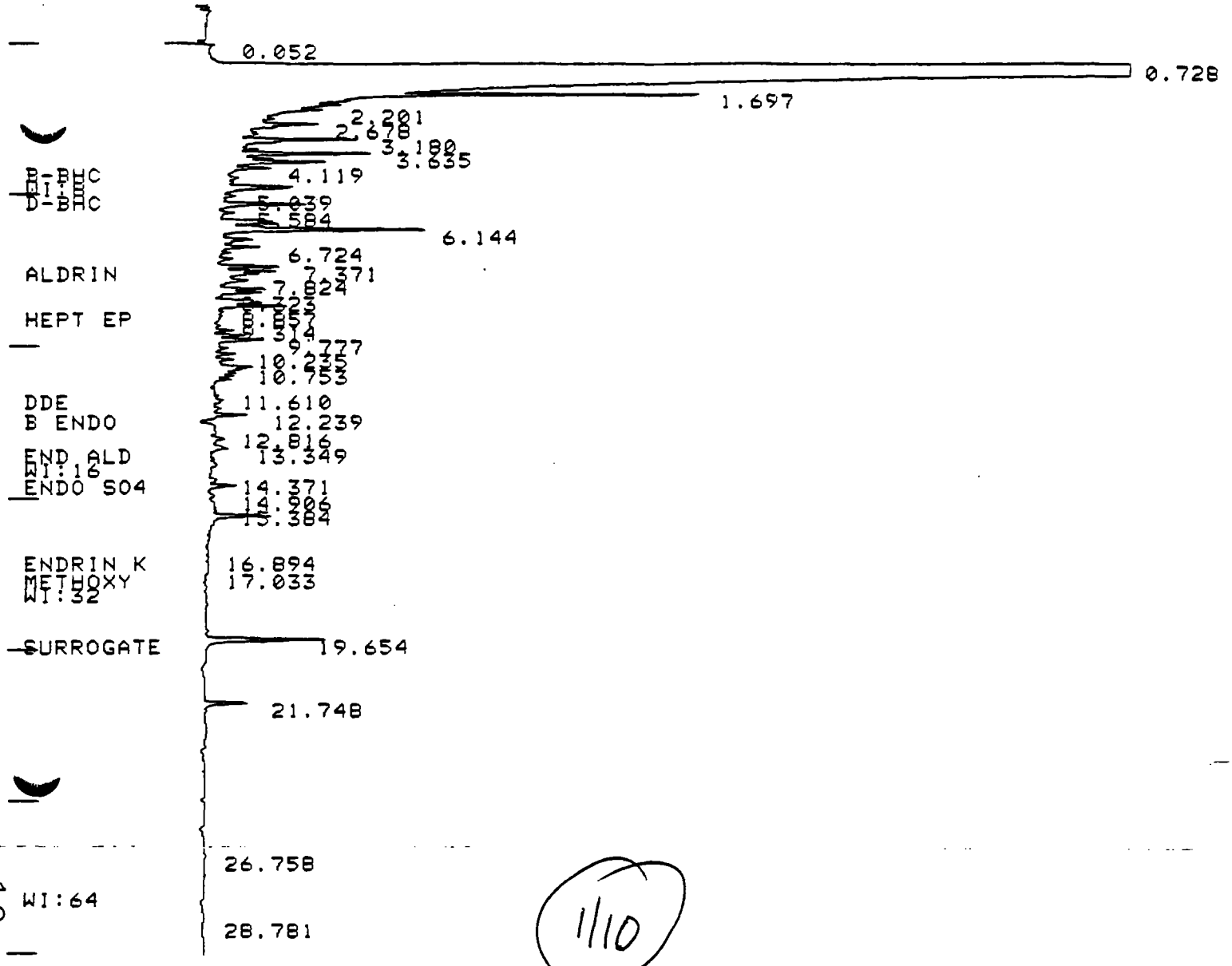
RACK: 2 VIAL: 4 INJ: 1

SAVED FILE: P1260

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC =2

varian /sunnyvale calif p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



10

1/10

08-18

TITLE: RUN# 15 23:29 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090512 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		1584	0.01	BB	?	3.10
2		0.0000	0.728		2573290	0.09	BV		7.40
3		0.0000	1.697		91896	0.22	VV		4.25
4		0.0000	1.888		28346	0.24	VV	?	2.20
5		0.0000	2.031		32111	0.26	VV	?	5.45
6		0.0000	2.201		33228	0.28	VV	?	21.35
7		0.0000	2.499		14994	0.32	VV	?	3.50
8		0.0000	2.678		20139	0.34	VV	?	6.50
9		0.0000	2.775		10615	0.35	VV	?	2.15
10		0.0000	2.934		4058	0.38	VV	?	2.90
11		0.0000	3.009		8142	0.38	VV	?	3.50
12		0.0000	3.180		17714	0.41	VV	?	2.75
13		0.0000	3.260		9413	0.42	VV	?	11.90

08-18

TITLE: RUN# 15 23:29 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15090512 METHOD: 6B P

	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		1584	0.01	BB	?	3.10
2		0.0000	0.728		2573290	0.09	BV		7.40
3		0.0000	1.697		91896	0.22	VV		4.25
4		0.0000	1.888		28346	0.24	VV	?	2.20
5		0.0000	2.031		32111	0.26	VV	?	5.45
6		0.0000	2.201		33228	0.28	VV	?	21.35
7		0.0000	2.499		14994	0.32	VV	?	3.50
8		0.0000	2.678		20139	0.34	VV	?	6.50
9		0.0000	2.775		10615	0.35	VV	?	2.15
10		0.0000	2.934		4058	0.38	VV	?	2.90
11		0.0000	3.009		8142	0.38	VV	?	3.50
12		0.0000	3.180		17714	0.41	VV	?	2.75
13		0.0000	3.260		9413	0.42	VV	?	11.90
14		0.0000	3.378		2767	0.43	VV	?	
15		0.0000	3.502		5005	0.45	VV	?	4.60
16	A-BHC	0.0050	3.635	-0.065	21613	0.46	VV	?	2.90
17		0.0000	3.811		6648	0.49	VV	?	6.10
18		0.0000	3.914		18470	0.50	VV		5.55
19	B-BHC	0.0059	4.119	-0.231	7925	0.53	VB		6.05
20	G-BHC	0.0004	4.441	-0.069	1501	0.57	BV		3.00
21		0.0000	4.579		1138	0.58	VV		5.55
22		0.0000	4.746		16215	0.61	VV		6.95
23		0.0000	5.039		1774	0.64	VV		3.85
24	D-BHC	0.0046	5.306	0.106	15068	0.68	VV		4.60
25		0.0000	5.584		2161	0.71	VV		4.20
26		0.0000	5.852		6970	0.75	VV	?	3.70
27		0.0000	5.931		8342	0.76	VV	?	5.05
28		0.0000	6.144		42113	0.78	VV		5.10
29		0.0000	6.467		7192	0.83	VV		5.00
30		0.0000	6.550		1614	0.84	VV	?	8.10
31	HEPT	0.0031	6.724	0.064	7151	0.86	VV		3.90
32		0.0000	6.903		2360	0.88	VV		4.05
33		0.0000	7.112		2684	0.91	VV		4.30
34		0.0000	7.371		9654	0.94	VV		4.30
35		0.0000	7.519		7964	0.96	VV		4.00
36		0.0000	7.615		6756	0.97	VV	?	5.65
37	ALDRIN	0.0028	7.824	-0.006	9697	1.00	VV		6.35
38		0.0000	8.106		7312	1.04	VV		4.30
39		0.0000	8.228		7930	1.05	VV		5.15
40		0.0000	8.553		11603	1.09	VV		8.45
41		0.0000	8.664		10323	1.11	VV		4.05
42		0.0000	8.857		1525	1.13	VV	?	5.50
43		0.0000	8.997		1266	1.15	VV	?	5.00
44	HEPT EP	0.0010	9.468	0.078	2671	1.21	VV		3.85
45		0.0000	9.635		4250	1.23	VV		4.20
46		0.0000	9.777		9006	1.25	VV		5.60
47		0.0000	10.051		2672	1.28	VV		5.40
48		0.0000	10.235		3186	1.31	VV		4.25
49		0.0000	10.424		2939	1.33	VV		4.05
50		0.0000	10.670		7615	1.36	VV	?	5.00
51	A ENDO	0.0013	10.753	-0.017	3449	1.37	VV	?	6.60
52		0.0000	10.860		3209	1.39	VV	?	4.10
53		0.0000	10.956		2673	1.40	VV	?	3.40
54		0.0000	11.078		2109	1.42	VB		4.15
55		0.0000	11.610		1597	1.48	BV		4.3
56		0.0000	11.749		2701	1.50	VV	?	3.90
57	DIELDRIN	0.0007	11.809	-0.041	1737	1.51	VV	?	6.80
58	DDE	0.0016	12.030	-0.100	4413	1.54	VV		4.80
59		0.0000	12.239		10330	1.56	VV		3.90
60	ENDRIN	0.0040	12.816	0.116	8449	1.64	VV		9.10
61	B ENDO	0.0027	13.022	-0.118	6308	1.66	VV	?	9.90
62		0.0000	13.349		5435	1.71	VB	?	13.70
63	DDD	0.0008	13.875	-0.025	1498	1.77	BV		7.45
64	END ALD	0.0009	14.371	0.361	1694	1.84	VV		8.20
65		0.0000	14.582		4293	1.86	VV		4.30
66	ENDO SO4	0.0006	14.906	-0.134	1316	1.90	VV		8.90
67		0.0000	15.384		3809	1.97	[illegible]		2.90
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

Run #15
08-18
15090512

23		0.0000	5.039		1774	0.64	VV		5.85
24	D-BHC	0.0046	5.306	0.106	15068	0.68	VV		4.60
25		0.0000	5.584		2161	0.71	VV		4.20
26		0.0000	5.852		6970	0.75	VV	?	3.70
27		0.0000	5.931		8342	0.76	VV	?	5.05
28		0.0000	6.144		42113	0.78	VV		5.10
29		0.0000	6.467		7192	0.83	VV		5.00
30		0.0000	6.550		1614	0.84	VV	?	8.10
31	HEPT	0.0031	6.724	0.064	7151	0.86	VV		3.90
32		0.0000	6.903		2360	0.88	VV		4.05
33		0.0000	7.112		2684	0.91	VV		4.30
34		0.0000	7.371		9654	0.94	VV		4.30
35		0.0000	7.519		7964	0.96	VV		4.00
36		0.0000	7.615		6756	0.97	VV	?	5.65
37	ALDRIN	0.0028	7.824	-0.006	9697	1.00	VV		6.35
38		0.0000	8.106		7312	1.04	VV		4.30
39		0.0000	8.228		7930	1.05	VV		5.15
40		0.0000	8.553		11603	1.09	VV		8.45
41		0.0000	8.664		10323	1.11	VV		4.05
42		0.0000	8.857		1525	1.13	VV	?	5.50
43		0.0000	8.997		1266	1.15	VV	?	5.00
44	HEPT EP	0.0010	9.468	0.078	2671	1.21	VV		3.85
45		0.0000	9.635		4250	1.23	VV		4.20
46		0.0000	9.777		9006	1.25	VV		5.60
47		0.0000	10.051		2672	1.28	VV		5.40
48		0.0000	10.235		3186	1.31	VV		4.25
49		0.0000	10.424		2939	1.33	VV		4.05
50		0.0000	10.670		7615	1.36	VV	?	5.00
51	A ENDO	0.0013	10.753	-0.017	3449	1.37	VV	?	6.60
52		0.0000	10.860		3209	1.39	VV	?	4.10
53		0.0000	10.956		2673	1.40	VV	?	3.40
54		0.0000	11.078		2109	1.42	VB		4.15
55		0.0000	11.610		1597	1.48	BV		4.3
56		0.0000	11.749		2701	1.50	VV	?	3.90
57	DIELDRIN	0.0007	11.809	-0.041	1737	1.51	VV	?	6.80
58	DDE	0.0016	12.030	-0.100	4413	1.54	VV		4.80
59		0.0000	12.239		10330	1.56	VV		3.90
60	ENDRIN	0.0040	12.816	0.116	8449	1.64	VV		9.10
61	B ENDO	0.0027	13.022	-0.118	6308	1.66	VV	?	9.90
62		0.0000	13.349		5435	1.71	VB	?	13.70
63	DDD	0.0008	13.875	-0.025	1498	1.77	BV		7.45
64	END ALD	0.0009	14.371	0.361	1694	1.84	VV		8.20
65		0.0000	14.582		4293	1.86	VV		4.30
66	ENDO SO4	0.0006	14.906	-0.134	1316	1.90	VV		8.90
67		0.0000	15.384		3809	1.97	VV		2.90
68	DDT	0.0083	15.564	0.074	14304	1.99	VB		4.85
69	ENDRIN K	0.0007	16.894	0.004	1779	2.16	BV	?	26.20
70		0.0000	17.033		3042	2.18	VB	?	55.50
71	SURROGATE	0.0117	19.654	-0.096	26388	2.51	BB		5.10
72		0.0000	21.748		8408	2.78	BB		5.15
73		0.0000	26.758		4660	3.42	BB	?	55.90
74		0.0000	28.781		3213	3.68	BB	?	42.70
TOTALS:		0.0561		-0.099	3257420				

DETECTED PKS: 77 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 9.7 OFFSET: -198

RACK: 1 VIAL: 10 INJ: 1

SAVED FILE: P793

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

/n 03-906362-00
varian / sunnyvale

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-19 15090513

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/17/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 25

CAS Number		ug / PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.5
11104-28-2	Aroclor-1221	< 2.5
11141-16-5	Aroclor-1232	< 2.5
53469-21-9	Aroclor-1242	< 2.5
12672-29-6	Aroclor-1248	< 2.5
11097-69-1	Aroclor-1254	< 5.0
11096-82-5	Aroclor-1260	< 5.0

V_i = Volume of extract injected (ul)

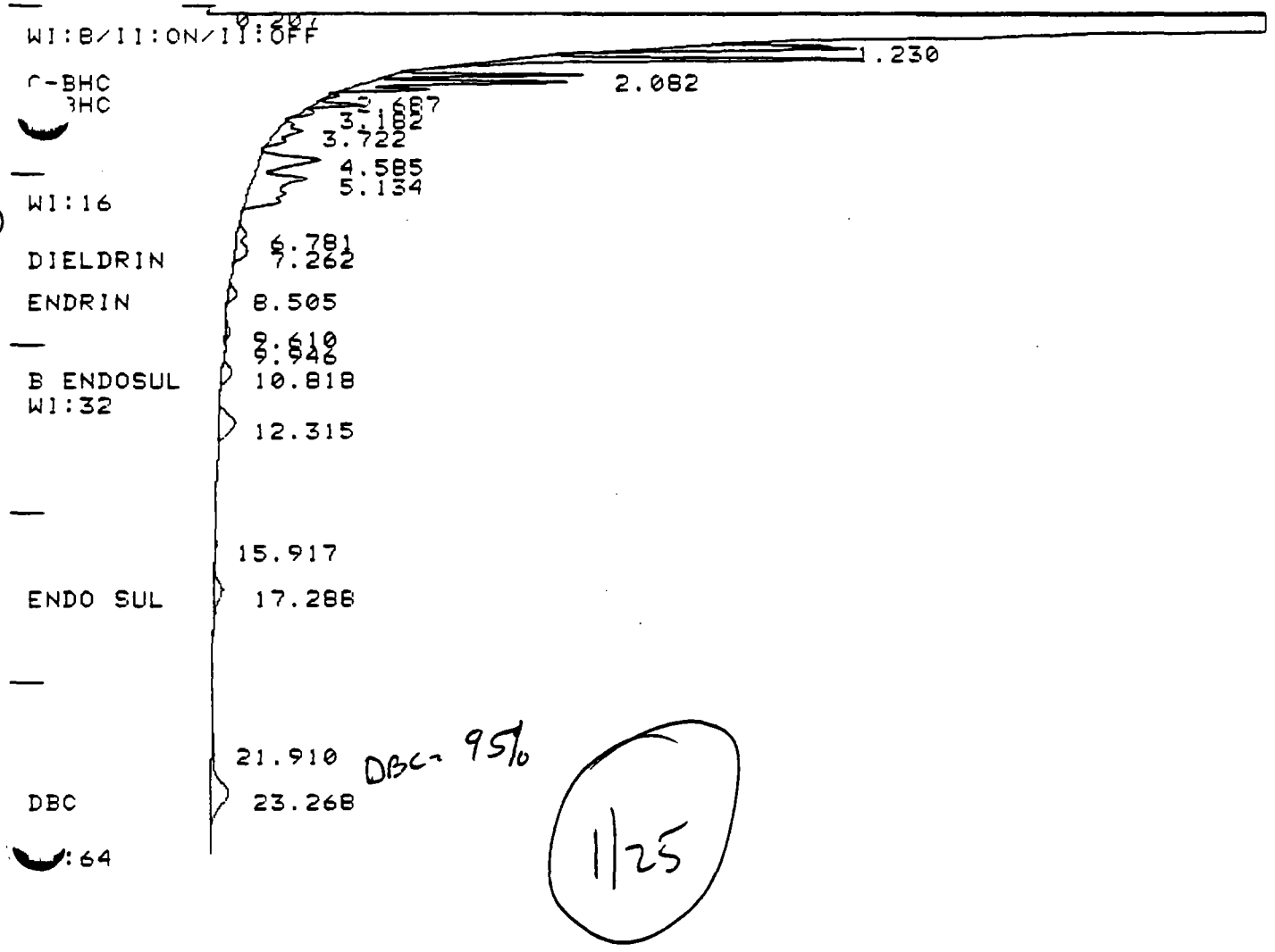
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN # 35 68-14 10:04 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090513 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.277		158569	VV	?	2.00
2		0.0000	0.352		151785	VB	?	7.75
3		0.0000	0.602		10917	BB		2.25
4		0.0000	1.230		2203	BV	?	3.50
5		0.0000	1.310		3160	VV	?	4.35
6		0.0000	1.491		405	VV	?	2.25
7	A-BHC	0.0038	1.627	0.007	5051	VV		6.30
8	G-BHC	0.0029	2.082	0.032	2738	VV		4.90
9	B-BHC	0.0084	2.291	-0.069	2824	VV		6.05
10		0.0000	2.499		1195	VV		4.40
11	D-BHC	0.0003	2.687	-0.053	180	VV		4.45
12	ALDRIN	0.0011	2.961	-0.049	732	VV		5.70
13		0.0000	3.182		255	VV		6.50
14		0.0000	3.518		188	VV	?	7.80
15		0.0000	3.722		365	VV		9.55
16		0.0000	4.030		240	VB		4.35
17		0.0000	4.585		662	BV		17.20
18		0.0000	5.134		757	VV		19.30
19		0.0000	5.577		528	VV	?	11.70
20	A-ENDRIN	0.0017	5.807	0.027	515	VB	?	7.55
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		[illegible]

Varian /Sunnyvale Calif p/n 03-906362-00

TITLE: RUN # 35 68-19 10:04 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090513 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.277		158569	VV	?	2.00
2		0.0000	0.352		151785	VB	?	7.75
3		0.0000	0.602		10917	BB		2.25
4		0.0000	1.230		2203	BV	?	3.50
5		0.0000	1.310		3160	VV	?	4.35
6		0.0000	1.491		405	VV	?	2.25
7	A-BHC	0.0038	1.627	0.007	5051	VV		6.30
8	G-BHC	0.0029	2.082	0.032	2738	VV		4.90
9	B-BHC	0.0084	2.291	-0.069	2824	VV		6.05
10		0.0000	2.499		1195	VV		4.40
11	D-BHC	0.0003	2.687	-0.053	180	VV		4.45
12	ALDRIN	0.0011	2.961	-0.049	732	VV		5.70
13		0.0000	3.182		255	VV		6.50
14		0.0000	3.518		188	VV	?	7.80
15		0.0000	3.722		365	VV		9.55
16		0.0000	4.030		240	VB		4.35
17		0.0000	4.585		862	BV		17.20
18		0.0000	5.134		757	VV		19.30
19		0.0000	5.577		528	VV	?	11.70
20	A ENDOSUL	0.0017	5.807	0.027	515	VB	?	7.55
21		0.0000	6.781		128	BV		15.40
22	DIELDRIN	0.0007	7.262	0.152	171	VB		22.45
23	ENDRIN	0.0008	8.505	-0.125	130	BB		19.65
24	B ENDOSUL	0.0009	10.818	0.218	145	VB		25.00
25		0.0000	12.315		238	BB		33.95
26	ENDO SUL	0.0022	17.288	0.008	122	VB		36.05
27	DBC	0.0038	23.268	0.218	240	VB		51.20
TOTALS:		0.0266		0.366	350643			

DETECTED PKS: 32 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -119

RACK: 2 VIAL: 6 INJ: 1

SAVED FILE: P1262

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

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varian /sunnyvale, calif. p/n 03-906362-00

TITLE: RUN # 35 68-19 10:04 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090513 METHOD: 2A PP-4

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-20 15090514

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/17/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 250

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 25
11104-28-2	Aroclor-1221	< 25
11141-16-5	Aroclor-1232	< 25
53469-21-9	Aroclor-1242	64
12672-29-6	Aroclor-1248	< 25
11097-69-1	Aroclor-1254	< 50
11096-82-5	Aroclor-1260	< 50

V_i = Volume of extract injected (ul)

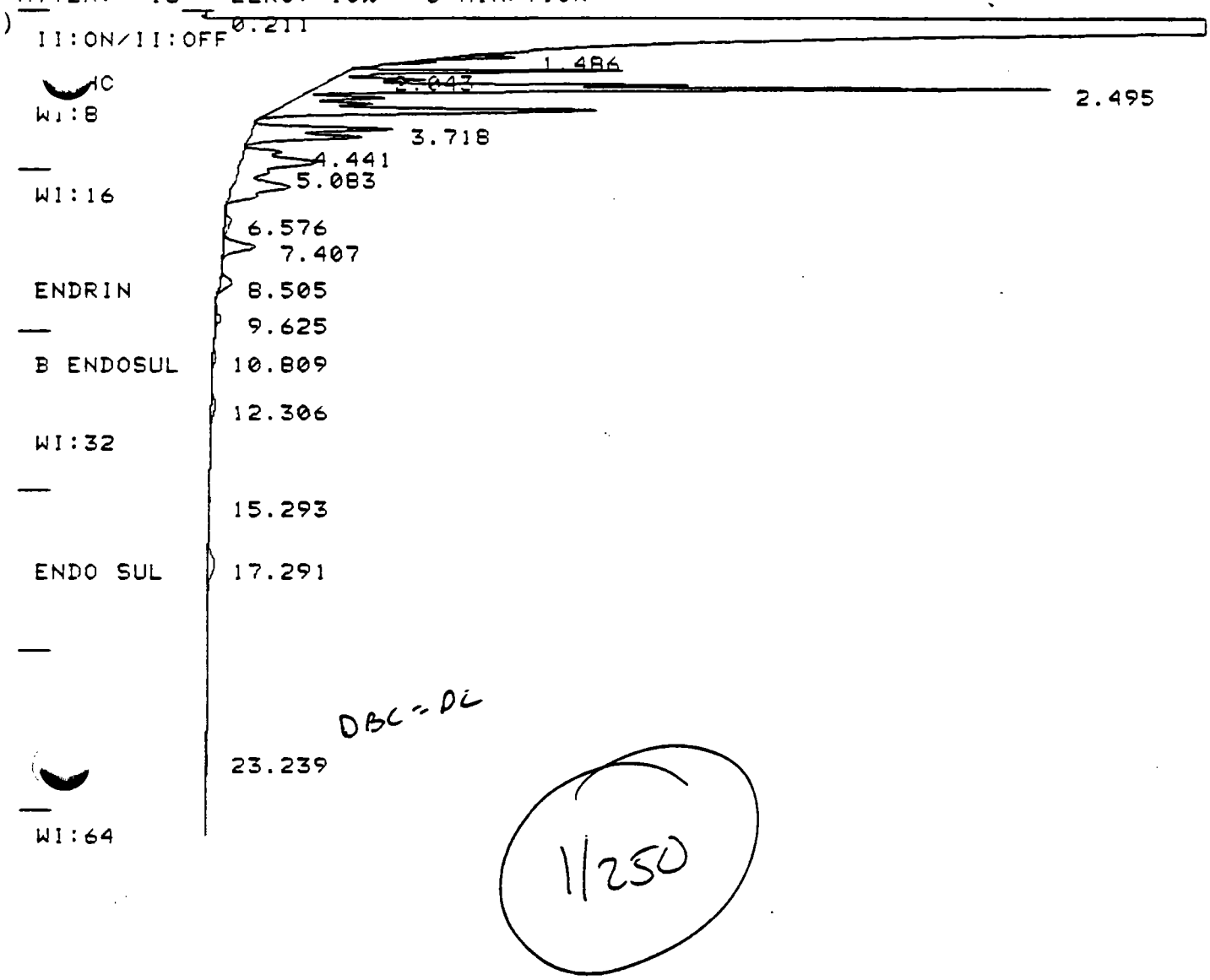
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN # 36 8-20 10:33 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090514 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		157834	VV	?	2.00
2		0.0000	0.353		147501	VB	?	5.20
3		0.0000	1.486		982	BV	?	1.95
4	A-BHC	0.0004	1.627	0.007	490	VB		2.15
5		0.0000	1.919		4101	BV		4.60
6	G-BHC	0.0005	2.043	-0.007	496	VV	?	4.40
7		0.0000	2.176		1378	VV		5.55
8	B-BHC	0.0162	2.366	0.006	5487	VV	?	5.70
[illegible]		0.0000	2.495		11007	VV		5.85
[illegible]	D-BHC	0.0022	2.741	0.001	1284	VV		6.15
[illegible]	ALDRIN	0.0019	2.926	-0.084	1282	VV		6.15
12		0.0000	3.152		4797	VB		9.20
13		0.0000	3.718		2096	BV		9.85
14		0.0000	3.974		1682	VV		11.35
15		0.0000	4.441		561	VV	?	9.90
16		0.0000	4.766		1112	VV	?	19.70
17		0.0000	5.083		470	VV	?	18.10
18		0.0000	5.546		871	VV		17.70

1242 = 3.78 Ht. x 0.068 µg/mlHt. x 1ml x ~~100~~ 250 = 64 µg.

Factor = 0.068
peaks at 1.20 + 1.31 min missing from sample

113

TITLE: RUN # 36 08-20 10:33 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090514 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		157834	VV	?	2.00
2		0.0000	0.353		147501	VB	?	5.20
3		0.0000	1.486		982	BV	?	1.95
4	A-BHC	0.0004	1.627	0.007	490	VB		2.15
5		0.0000	1.919		4101	BV		4.60
6	G-BHC	0.0005	~~2.043~~	-0.007	~~496~~	VV	?	4.40
7		0.0000	2.176		1378	VV		5.55
8	B-BHC	0.0162	2.366	0.006	5487	VV	?	5.70
9		0.0000	2.495		11007	VV		5.85
10	D-BHC	0.0022	2.741	0.001	1284	VV		6.15
11	ALDRIN	0.0019	2.926	-0.084	1282	VV		6.15
12		0.0000	3.152		4797	VB		9.20
13		0.0000	3.718	H = 3.78	2096	BV		9.85
14		0.0000	3.974		1682	VV		11.35
15		0.0000	4.441		561	VV	?	9.90
16		0.0000	4.766		1112	VV	?	19.70
17		0.0000	5.083		470	VV	?	18.10
18		0.0000	5.546		871	VV		17.70
19	A ENDOSUL	0.0014	5.819	0.039	418	VV	?	9.55
20		0.0000	6.576		103	VV		20.45
21	DIELDRIN	0.0019	7.407	0.297	471	VB		16.45
22	ENDRIN	0.0011	8.505	-0.125	199	BB		19.90
23	ENDO SUL	0.0019	17.291	0.011	107	VB		38.00
TOTALS:		0.0275		0.145	344729			

ECTED PKS: 29 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -122

RACK: 2 VIAL: 7 INJ: 1

SAVED FILE: P1263

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

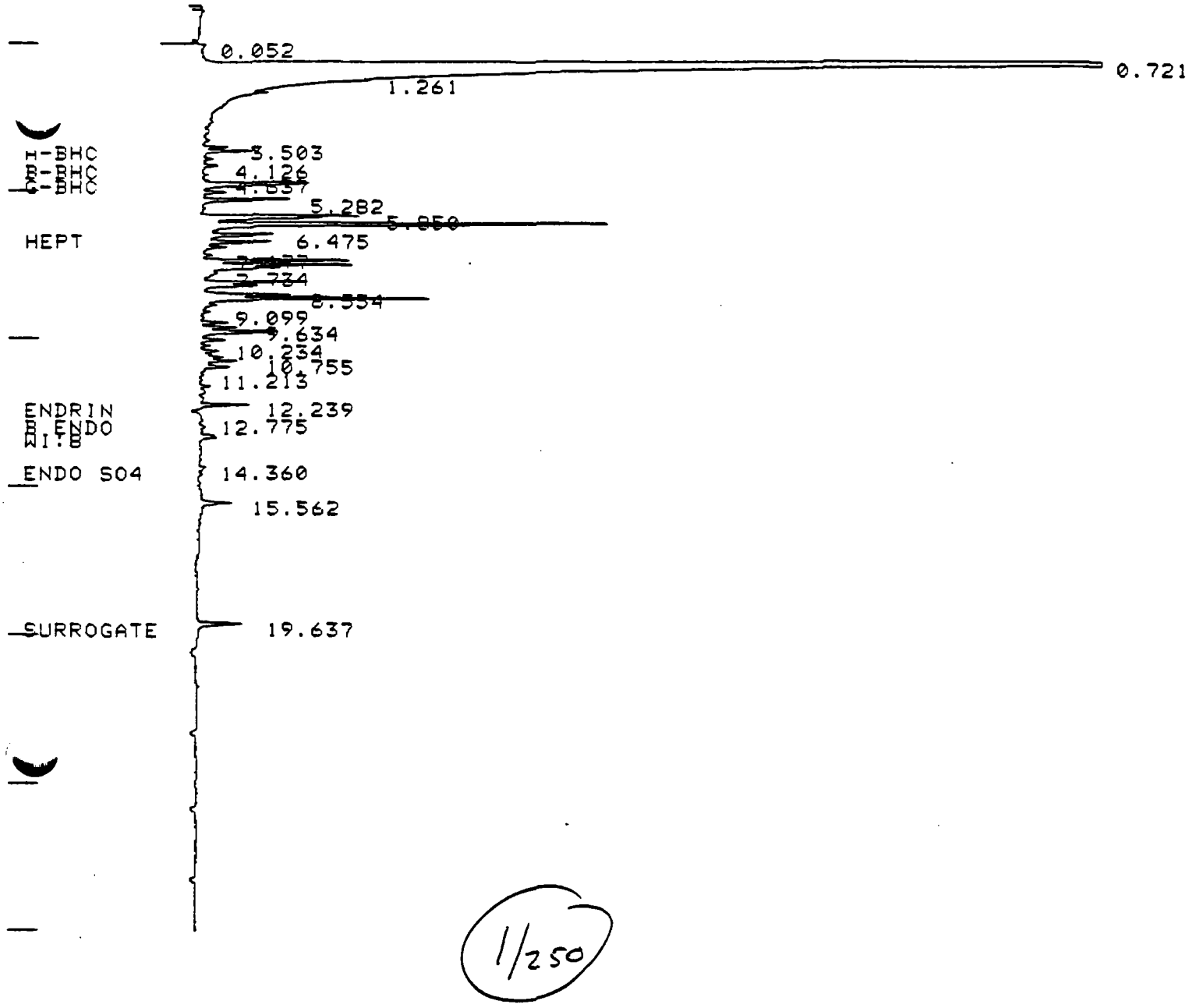
varian /sunnyvale, calif. p/n 03-906362-00

TITLE: RUN# 36 08-20 10:33 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15090514 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		157834	0.09	VV	?	2.00
2		0.0000	0.353		147501	0.12	VB	?	5.20
3		0.0000	1.486		982	0.49	BV	?	1.95
4		0.0000	1.627		490	0.54	VB		2.15
5		0.0000	1.919		4101	0.64	BV		4.60
6		0.0000	2.043		496	0.68	VV	?	4.40
7		0.0000	2.176		1378	0.72	VV		5.55
8		0.0000	2.366		5487	0.79	VV	?	5.70

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



1/250

08-20

TITLE: RUN# 17 0:42 13 NOV 85

CHANNEL NO: 1 SAMPLE: 15090514 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		1514	0.01	BB	?	3.10
2		0.0000	0.721		1052090	0.09	BV		6.20
3		0.0000	1.261		1412	0.16	T	?	1.70
4		0.0000	1.696		2046	0.22	T	?	3.50
5		0.0000	3.503		2964	0.45	BV		3.45
6	A-BHC	0.0016	3.637	-0.063	7015	0.47	VV		3.55
7		0.0000	3.913		1733	0.51	VV		4.70
8	B-BHC	0.0019	4.126	-0.224	2617	0.53	VB		4.05
9	G-BHC	0.0063	4.739	0.229	24313	0.61	VV		6.80
10		0.0000	5.036		3808	0.65	VV		3.90
11	D-BHC	0.0038	5.383	0.082	12472	0.68	VB		4.00
12		0.0000	5.850		19164	0.76	B[illegible]	?	3.40
13		0.0000	5.922		17503	0.77	[illegible]	?	2.95
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]			[illegible]

14

TITLE: RUN# 17 08-20 0:42 13 NOV 85

CHANNEL NO: 1 SAMPLE: 15090514 METHOD: 6B P

PK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		1514	0.01	BB	?	3.10
2		0.0000	0.721		1052090	0.09	BV		6.20
3		0.0000	1.261		1412	0.16	T	?	1.70
4		0.0000	1.696		2046	0.22	T	?	3.50
5		0.0000	3.503		2964	0.45	BV		3.45
6	A-BHC	0.0016	3.637	-0.063	7015	0.47	VV		3.55
7		0.0000	3.913		1733	0.51	VV		4.70
8	B-BHC	0.0019	4.126	-0.224	2617	0.53	VB		4.05
9	G-BHC	0.0063	4.739	0.229	24313	0.61	VV		6.80
10		0.0000	5.036		3808	0.65	VV		3.90
11	D-BHC	0.0038	5.282	0.082	12472	0.68	VB		4.00
12		0.0000	5.850		19184	0.76	BV	?	3.40
13		0.0000	5.922		17503	0.77	VV	?	4.95
14		0.0000	6.145		75295	0.79	VV		5.00
15		0.0000	6.475		13656	0.84	VV		5.20
16	HEPT	0.0047	6.723	0.063	10832	0.87	VV		4.10
17		0.0000	6.901		3659	0.89	VB		4.30
18		0.0000	7.177		1011	0.93	BV		3.60
19		0.0000	7.371		20061	0.95	VV		3.95
20		0.0000	7.517		19249	0.97	VV		3.85
21		0.0000	7.616		12119	0.98	VV	?	5.85
22	ALDRIN	0.0006	7.734	-0.096	1977	1.00	VB	?	
23		0.0000	8.105		12665	1.05	BV		3.95
24		0.0000	8.220		8375	1.06	VV	?	5.20
25		0.0000	8.554		15906	1.11	VV		5.55
26		0.0000	8.663		30957	1.12	VV		3.75
27		0.0000	8.858		2432	1.14	VV		4.95
8		0.0000	9.099		1481	1.18	VB		3.25
29	HEPT EP	0.0014	9.468	0.078	3620	1.22	BV		3.85
30		0.0000	9.634		5153	1.25	VV		4.40
31		0.0000	9.783		14243	1.26	VV		5.50
32		0.0000	10.043		3555	1.30	VV		4.10
33		0.0000	10.234		1037	1.32	VB		4.20
34		0.0000	10.422		2794	1.35	BV		4.05
35		0.0000	10.534		1274	1.36	VV		2.65
36		0.0000	10.638		4118	1.38	VV	?	6.00
37	A ENDO	0.0019	10.755	-0.015	5177	1.39	VV		4.10
38		0.0000	10.860		1106	1.40	VV		2.40
39		0.0000	10.957		4642	1.42	VV		4.35
40	DIELDRIN	0.0004	11.610	-0.240	1086	1.50	BB		4.30
41	DDE	0.0032	12.239	0.109	8540	1.58	BB		3.90
42	ENDRIN	0.0013	12.775	0.075	2818	1.65	BB	?	6.30
43	B ENDO	0.0018	13.346	0.206	4197	1.73	VB		7.65
44	END ALD	0.0007	14.360	0.350	1379	1.86	BV		4.80
45	ENDO SO4	0.0005	14.579	-0.461	1032	1.88	VB		4.25
46	DDT	0.0034	15.562	0.072	5817	2.01	BB		4.65
47	SURROGATE	0.0041	19.637	-0.113	9231	2.54	BB		5.35
TOTALS:		0.0376		0.052	1459160				

DETECTED PKS: 53 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 9.7 OFFSET: -205

K: 1 VIAL: 12 INJ: 1

SAVED FILE: P795

NOTES:

GC=6. SPE-5
2 UL INJECTED
0.32MM ID: 30M

14

varian /sunnyvale,calif.p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-21

15091749

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/17/85

Date Analyzed: 10/18/85

Conc/Dil Factor: 10

CAS Number		~~ug/l or ug/kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	1.7
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

V_i = Volume of extract injected (ul)

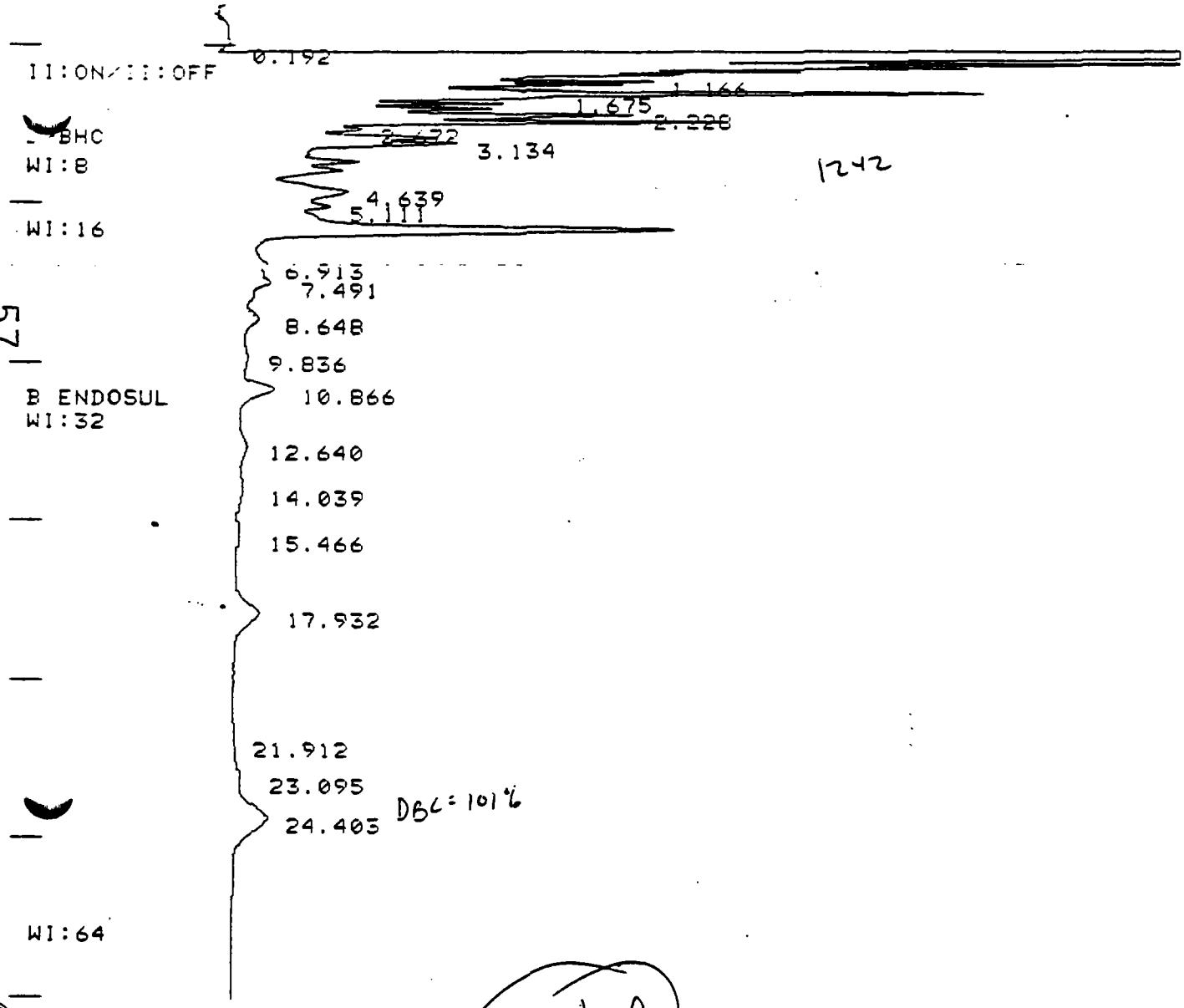
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



57

100µl/1ml

TITLE: RUN # 25 08-21 5:48 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091749 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.286		125422	VB		5.85
2		0.0000	0.447		21926	BB		1.65
3		0.0000	0.645		38101	BV		2.35
[illegible]		0.0000	0.733		3122	VV	?	1.20
[illegible]		0.0000	0.783		4987	VV	?	1.15
6		0.0000	0.865		3019	VV		1.95
7		0.0000	0.957		1878	VB		2.50
8		0.0000	1.166		2536	BV		3.05
9		0.0000	1.263		2351	VV		3.50
10		0.0000	1.447		1900	VV	?	3.40
11	4-B-1	0.0063	1.582	0.042	8580	VV	?	6.70
12		0.0000	1.675		2307	VV	?	5.95
[illegible]		[illegible]	[illegible]		[illegible]			[illegible]

varian /sunnyvale, calif p/n 03 906362 00

100µl/1ml

1242 = 1.58 Ht. x 0.1099 µg/ml Ht. x 1ml x 10 = 1.7 µg.

08-21

TITLE: RUN # 25 5:48 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091749 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.286		125422	VB		5.85
2		0.0000	0.447		21926	BB		1.65
3		0.0000	0.645		38101	BV		2.35
4		0.0000	0.733		3122	VV	?	1.20
5		0.0000	0.783		4987	VV	?	1.15
6		0.0000	0.865		3019	VV		1.95
7		0.0000	0.957		1878	VB		2.50
8		0.0000	1.166		2536	BV		3.05
9		0.0000	1.263		2351	VV		3.50
10		0.0000	1.447		1900	VV	?	3.40
11	A-BHC	0.0063	1.582	0.042	8580	VV	?	6.70
12		0.0000	1.675		2307	VV	?	5.95
13		0.0000	1.872		1904	VV		3.95
14	G-BHC	0.0020	2.031	0.051	1881	VV		4.95
15	B-BHC	0.0129	2.228	-0.102	4150	VV		8.85
16		0.0000	2.458		5724	VV		5.40
17	D-BHC	0.0007	2.672	-0.048	444	VV		5.65
18	ALDRIN	0.0029	2.949	-0.041	1765	VV	?	7.50
19		0.0000	3.134	H= 1.58	1976	VB	?	7.10
20		0.0000	3.701		898	VV		8.15
		0.0000	3.972		818	VV		8.80
22		0.0000	4.639		1094	VV	?	24.40
23		0.0000	5.111		917	VV	?	19.00
24	A ENDOSUL	0.0213	5.845	-0.115	5182	VV		13.90
25		0.0000	6.913		192	T	?	18.20
26		0.0000	7.227		190	T	?	13.70
27	DIELDRIN	0.0013	7.491	0.091	285	T	?	19.75
28	ENDRIN	0.0010	8.648	-0.382	177	T		22.40
29	B ENDOSUL	0.0038	10.866	-0.314	496	VB		24.35
30		0.0000	12.640		141	BV		38.90
31	ENDO SUL	0.0057	17.932	-0.648	364	BB		41.20
32	DDC	0.0101	24.403	-1.127	526	VB		57.50
TOTALS:		0.0680		-2.593	246253			

DETECTED PKS: 39 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 39

RACK: 2 VIAL: 10 INJ: 1

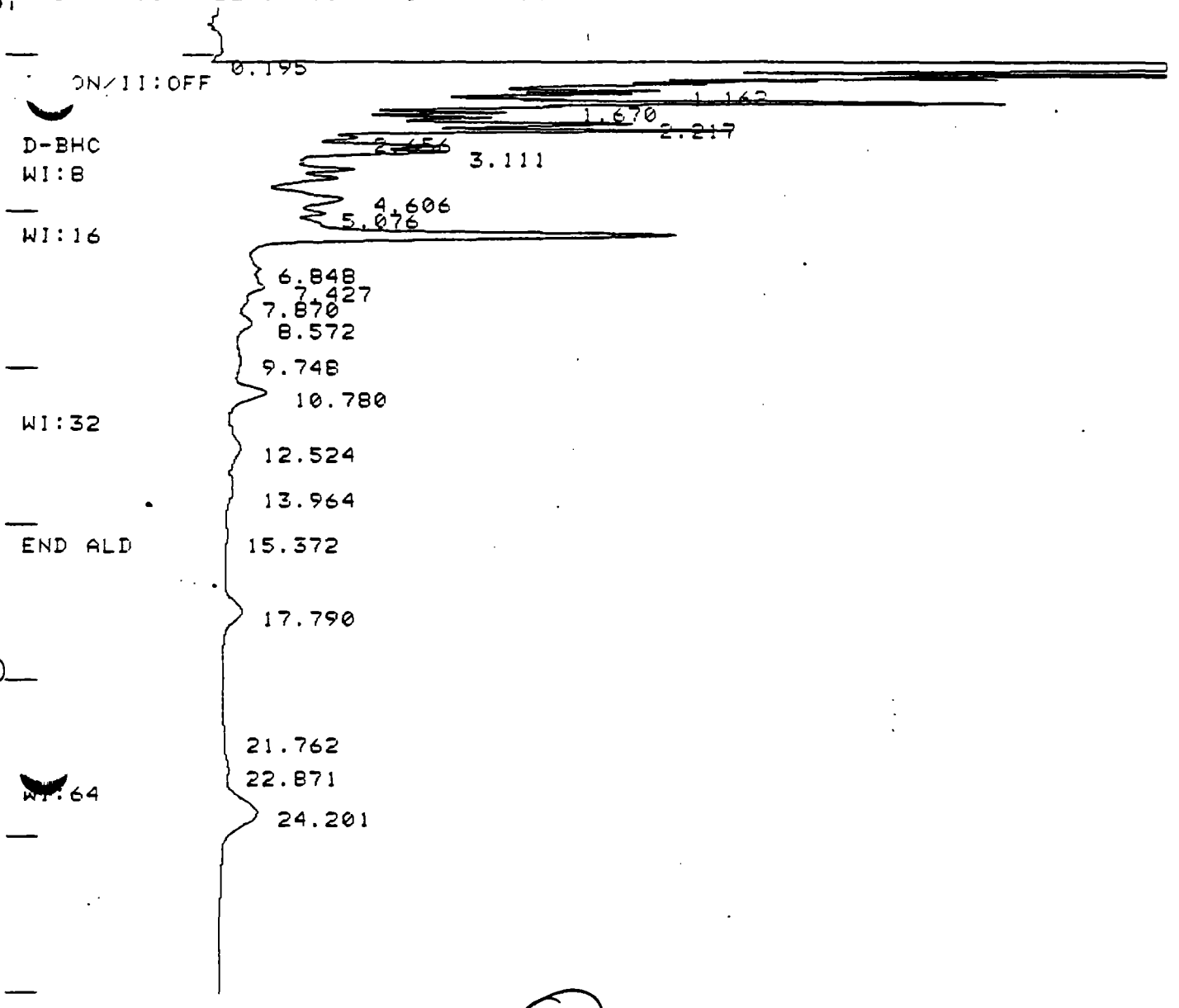
SAVED FILE: P1932

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
QC #2

(VA) varian /sunnyvale.calif p/n 03 906362 00

58

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/10

08-21

TITLE: RUN # 26 23:36 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091749 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.288		124618	VB	5.95
2		0.0000	0.448		22565	BB	1.65
3		0.0000	0.644		40078	BV	2.30
4		0.0000	0.729		3162	VV ?	1.10
5		0.0000	0.781		5236	VV ?	1.15
6		0.0000	0.862		3077	VV	1.95
7		0.0000	0.953		2029	VB	2.35
8		0.0000	1.162		2561	BV	3.10
9		0.0000	1.257		2408	VV	3.45
10		0.0000	1.439		1960	VV ?	3.40
11	D-BHC	0.0000	1.571	0.032	6973	VV ?	3.50
12		0.0000	1.670		2270	VV ?	3.30

varian /sunnyvale, calif. p/n 03 906362 00

08-21

TITLE: RUN # 26 23:36 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091749 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.288		124618	VB		5.95
2		0.0000	0.448		22565	BB		1.65
3		0.0000	0.644		40078	BV		2.30
4		0.0000	0.729		3162	VV	?	1.10
5		0.0000	0.781		5236	VV	?	1.15
6		0.0000	0.862		3077	VV		1.95
7		0.0000	0.953		2029	VB		2.35
8		0.0000	1.162		2561	BV		3.10
9		0.0000	1.257		2408	VV		3.45
10		0.0000	1.439		1960	VV	?	3.40
11	A-BHC	0.0066	1.572	0.032	8973	VV	?	6.50
12		0.0000	1.670		2470	VV	?	5.30
13		0.0000	1.860		1981	VV		3.90
14	G-BHC	0.0020	2.019	0.039	1892	VV		4.90
15		0.0000	2.217		4228	VV		8.70
16	B-BHC	0.0186	2.441	0.111	5961	VV		5.30
17	D-BHC	0.0007	2.656	-0.064	446	VV		5.80
18	ALDRIN	0.0030	2.929	-0.061 1.64	1814	VV	?	7.50
19		0.0000	3.111		2052	VB	?	7.05
20		0.0000	3.672		955	VV		8.15
21		0.0000	3.941		854	VV		8.90
22		0.0000	4.606		1142	VV	?	23.10
23		0.0000	5.076		959	VV	?	15.10
24	A ENDOSUL	0.0220	5.796	-0.164	6375	VV	?	10.55
25		0.0000	6.848		184	T	?	17.20
26		0.0000	7.181		184	T	?	16.60
27	DIELDRIN	0.0013	7.427	0.027	289	T	?	19.05
28		0.0000	8.572		186	T		21.90
29	B ENDOSUL	0.0040	10.780	-0.400	529	VB		24.15
30		0.0000	12.524		170	BV		36.65
31	ENDO SUL	0.0043	17.790	-0.790	273	BB		40.60
32		0.0000	22.871		122	VV	?	56.20
33		0.0000	24.201		568	VB		57.65
TOTALS:		0.0625		-1.270	250301			

DETECTED PKS: 40 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 26

RACK: 2 VIAL: 10 INJ: 1

SAVED FILE: P1971

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

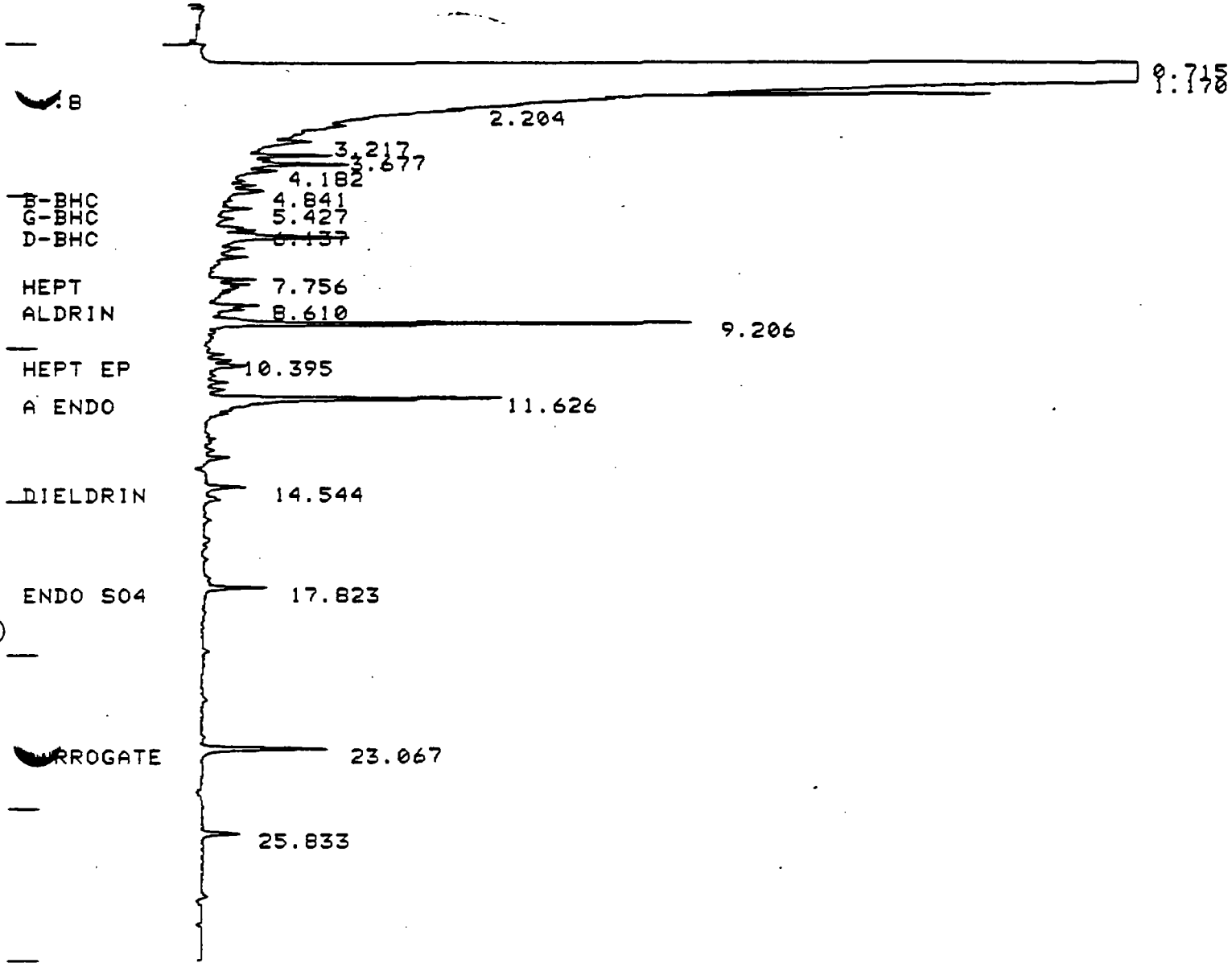
CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK

116

varian /sunnyvale,calif p n 03 906 [illegible]

172

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



varian /sunnyvale, calif p/n 03-906362 00

100µl/1ml

TITLE: RUN# 18 08-21 6:47 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091749 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE	W1/2 (SEC)
1		0.0000	0.715		1499050	0.08	BV	5.80
2		0.0000	0.900		819182	0.10	VV	? 20.30
3		0.0000	1.170		719737	0.14	VV	? 51.35
4		0.0000	1.698		123528	0.20	VV	? 4.60
5		0.0000	1.780		172867	0.20	VV	?
6		0.0000	2.204		55579	0.25	VB	? 2.20
7		0.0000	3.217		8394	0.37	BB	4.55
8		0.0000	3.677		12226	0.42	BV	4.35
9		0.0000	3.971		22180	0.46	VV	4.45
10	A-BHC	0.0270	4.182	-0.068	7721	0.48	VB	4.85
11	B-BHC	0.0702	4.841	-0.139	7101	0.56	BB	6.65
12	G-BHC	0.0195	5.427	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

03-906362-00

100ul/1ml

TITLE: RUN# 18 08-21 6:47 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091749 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.715		1499050	0.08	BV		5.80
2		0.0000	0.900		819182	0.10	VV	?	20.30
3		0.0000	1.170		719737	0.14	VV	?	51.35
4		0.0000	1.698		123528	0.20	VV	?	4.60
5		0.0000	1.780		172867	0.20	VV	?	
6		0.0000	2.204		55579	0.25	VB	?	2.20
7		0.0000	3.217		8394	0.37	BB		4.55
8		0.0000	3.677		12226	0.42	BV		4.35
9		0.0000	3.971		22180	0.46	VV		4.45
10	A-BHC	0.0270	4.182	-0.068	7721	0.48	VB		4.85
11	B-BHC	0.0702	4.841	-0.139	7101	0.56	BB		6.65
12	G-BHC	0.0195	5.427	0.297	5393	0.63	BB		3.85
13	D-BHC	0.0307	6.137	0.227	8229	0.71	BV		8.85
14		0.0000	6.373		31808	0.73	VB		6.25
15	HEPT	0.0205	7.756	0.186	4736	0.89	BV		4.40
16		0.0000	7.925		2563	0.91	VB	?	3.90
17		0.0000	8.610		7787	0.99	BV	?	4.00
18	ALDRIN	0.0188	8.682	-0.238	6344	1.00	VV	?	7.50
19		0.0000	9.206		81626	1.06	VB		4.15
20		0.0000	10.395		3517	1.20	BV		5.50
21	HEPT EP	0.0238	10.561	-0.189	6315	1.22	VB	?	6.80
22	A ENDO	0.1529	11.626	-0.794	51952	1.34	BB		5.40
23	ENDRIN	0.0325	14.544	-0.246	7960	1.67	BB		5.30
24	ENDO SO4	0.0340	17.823	0.143	9427	2.05	BB		4.25
25	SURROGATE	0.1061	23.067	-0.503	27362	2.66	BB		5.80
26		0.0000	25.833		7760	2.97	BB		5.70
TOTALS:		0.5360		-1.324	3710340				

DETECTED PKS: 26 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -274

RACK: 2 VIAL: 3 INJ: 1

SAVED FILE: P664

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270°C @3°C/MIN

CHART SPEED 0.5 CM/MIN

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-22

15091750

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/17/85

Date Analyzed: 10/22/85

Conc/Dil Factor: 5

CAS Number		ug/~~l or ug/kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	1.1
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

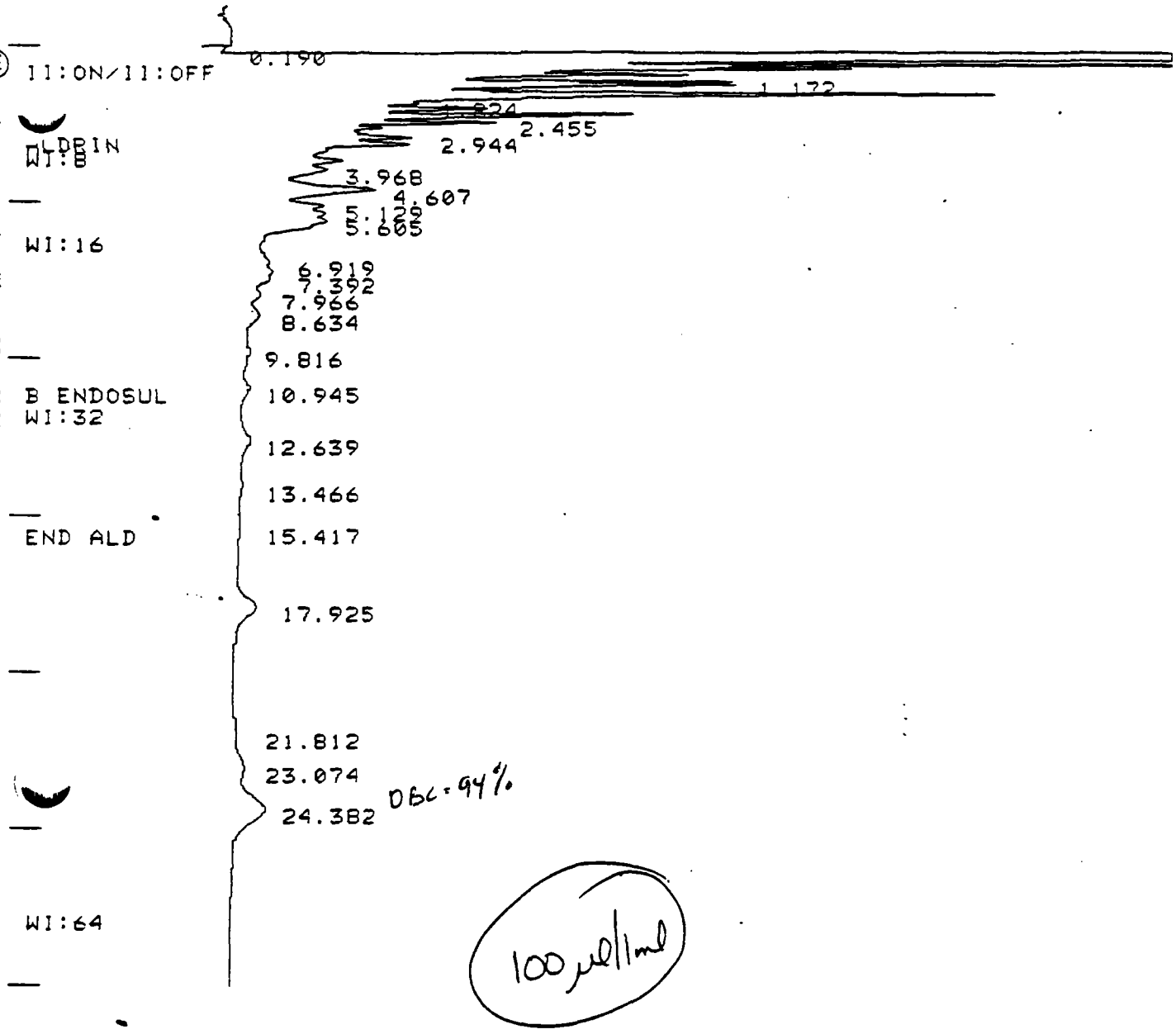
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



varian /sunnyvale, calif p/n 03 906362 00

59

08-22

TITLE: RUN # 26 6:20 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091750 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.287		125104	VB		5.80
2		0.0000	0.447		36756	BB		1.95
3		0.0000	0.645		34839	BV		2.35
		0.0000	0.733		2251	VV	?	1.20
		0.0000	0.784		4391	VV	?	1.05
6		0.0000	0.867		701	VV		1.70
7		0.0000	0.954		2807	VB		3.20
8		0.0000	1.172		4212	BV		3.55
9		0.0000	1.272		4382	VV		5.75
10		0.0000	1.445		1246	VV	?	2.90
11	--BHC	0.0065	1.588	0.048	8741	V		5.75
12		0.0000	1.824		213	T	?	3.20

WI:64

100 µg/1ml

59

08-22

TITLE: RUN # 26 6:20 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091750 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.287		125104	VB		5.80
2		0.0000	0.447		36756	BB		1.95
3		0.0000	0.645		34839	BV		2.35
4		0.0000	0.733		2251	VV	?	1.20
5		0.0000	0.784		4391	VV	?	1.05
6		0.0000	0.867		701	VV		1.70
7		0.0000	0.954		2807	VB		3.20
8		0.0000	1.172		4212	BV		3.55
9		0.0000	1.272		4382	VV		5.75
10		0.0000	1.445		1246	VV	?	2.90
11	A-BHC	0.0065	1.588	0.048	8741	VV		5.75
12		0.0000	1.824		213	T	?	3.20
13		0.0000	1.837		242	T	?	3.60
14	G-BHC	0.0017	2.007	0.027	1572	VV		5.35
15	B-BHC	0.0123	2.224	-0.106	3945	VV		5.65
16		0.0000	2.455		2021	VV		4.70
17		0.0000	2.629		434	VV		4.65
18	D-BHC	0.0003	2.791	0.071	197	VV		4.30
19	ALDRIN	0.0018	2.944	-0.046	1084	VV		6.55
20		0.0000	3.157		1200	VV	?	7.00
21		0.0000	3.687		526	VV		8.05
22		0.0000	3.968		419	VV		7.70
23		0.0000	4.607		1377	VV		14.50
24		0.0000	5.129		708	VV	?	10.70
25		0.0000	5.371		794	VV	?	14.10
26		0.0000	5.605		868	VB	?	30.05
27		0.0000	6.919		180	BV	?	21.90
28		0.0000	7.217		247	VV	?	19.70
29	DIELDRIN	0.0010	7.392	-0.008	218	VV	?	22.80
30		0.0000	7.966		128	VV		11.75
31	ENDRIN	0.0009	8.634	-0.396	152	VB		21.60
32		0.0000	12.639		156	BV		38.00
33	ENDO SUL	0.0049	17.925	-0.655	314	BB		41.05
34		0.0000	23.074		172	VV	?	53.20
35	DBC	0.0094	24.382	-1.148	492	VB		57.30
TOTALS:		0.0388		-2.213	243089			

DETECTED PKS: 42 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

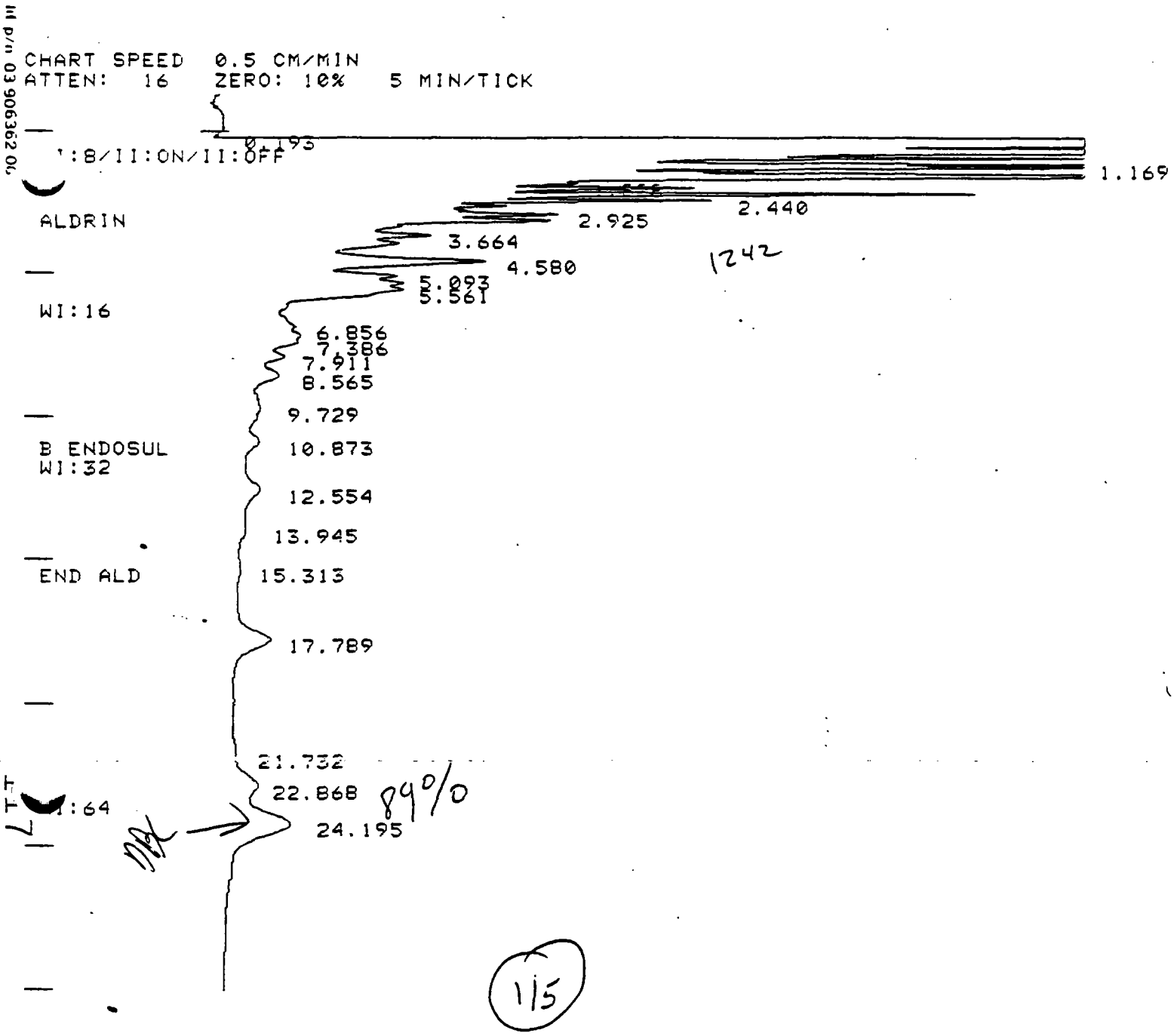
NOISE: 2.4 OFFSET: 62

TRACK: 2 VIAL: 11 INJ: 1

SAVED FILE: P1933

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale,calif p/n 03 906362 00



08-22

TITLE: RUN # 27 0:09 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091750 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.288		131746	VB	6.50
2		0.0000	0.447		59042	BB	1.95
3		0.0000	0.644		58049	BV	2.45
4		0.0000	0.780		9877	VV	4.25
5		0.0000	0.857		1673	VV	1.35
6		0.0000	0.949		6205	VB	5.00
7		0.0000	1.169		9037	BV	3.80
8		0.0000	1.266		9433	VV	5.90
9		0.0000	1.439		2811	VV	3.00
10	--E-1	0.0133	1.579	0.035	19032	VV	5.70
11		0.0000	1.628		456	T	1.80
12	1-E-1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1242 = 1.94 Ht. x 0.1099 µg/ml Ht. x 1ml x 5 = 1.1 µg

08-22

E: RUN #27 0:09 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091750 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.288		131746	VB		6.50
2		0.0000	0.447		59042	BB		1.95
3		0.0000	0.644		58049	BV		2.45
4		0.0000	0.780		9877	VV		4.25
5		0.0000	0.857		1673	VV		1.35
6		0.0000	0.949		6205	VB		3.00
7		0.0000	1.169		9037	BV		3.80
8		0.0000	1.266		9433	VV	?	5.90
9		0.0000	1.439		2611	VV	?	3.00
10	A-BHC	0.0133	1.579	0.039	18032	VV		5.70
11		0.0000	1.828		486	T		3.80
12	G-BHC	0.0033	1.998	0.018	3091	VV		5.20
13		0.0000	2.213		8082	VV		5.55
14	B-BHC	0.0126	2.440	0.110	4045	VV		4.70
15		0.0000	2.612		840	VV		4.65
16	D-BHC	0.0007	~~2.775~~	0.053	~~412~~	VV		3.90
17	ALDRIN	0.0036	2.925	-0.065	2160	VV		6.40
18		0.0000	3.138		2375	VV		7.00
19		0.0000	~~3.342~~	H= 1.94	~~137~~	T	?	2.75
20		0.0000	3.664		1054	VV		7.90
21		0.0000	3.940		775	VV		8.00
22		0.0000	4.580		2653	VV		14.50
23		0.0000	5.093		1395	VV	?	10.40
24		0.0000	5.337		1597	VV	?	14.90
[illegible]		0.0000	5.561		1697	VB	?	32.45
26		0.0000	6.856		344	BV	?	24.00
27		0.0000	7.165		485	VV	?	19.80
28	DIELDRIN	0.0020	7.386	-0.014	447	VV	?	14.75
29		0.0000	7.911		299	VV		12.30
30		0.0000	8.565		305	VB		20.50
31		0.0000	9.729		130	BV		24.80
32	B ENDOSUL	0.0015	10.873	-0.307	195	VB		26.95
33		0.0000	12.554		282	BV		38.20
34	ENDO SUL	0.0090	17.789	-0.791	576	BB		40.90
35		0.0000	22.868		472	VV	?	55.30
36	DBC	.0178 ~~0.0000~~ JM	24.195		1007	VB		58.60
TOTALS:		0.0460		-0.957	341046			

DETECTED PKS: 40 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 34

RACK: 2 VIAL: 11 INJ: 1

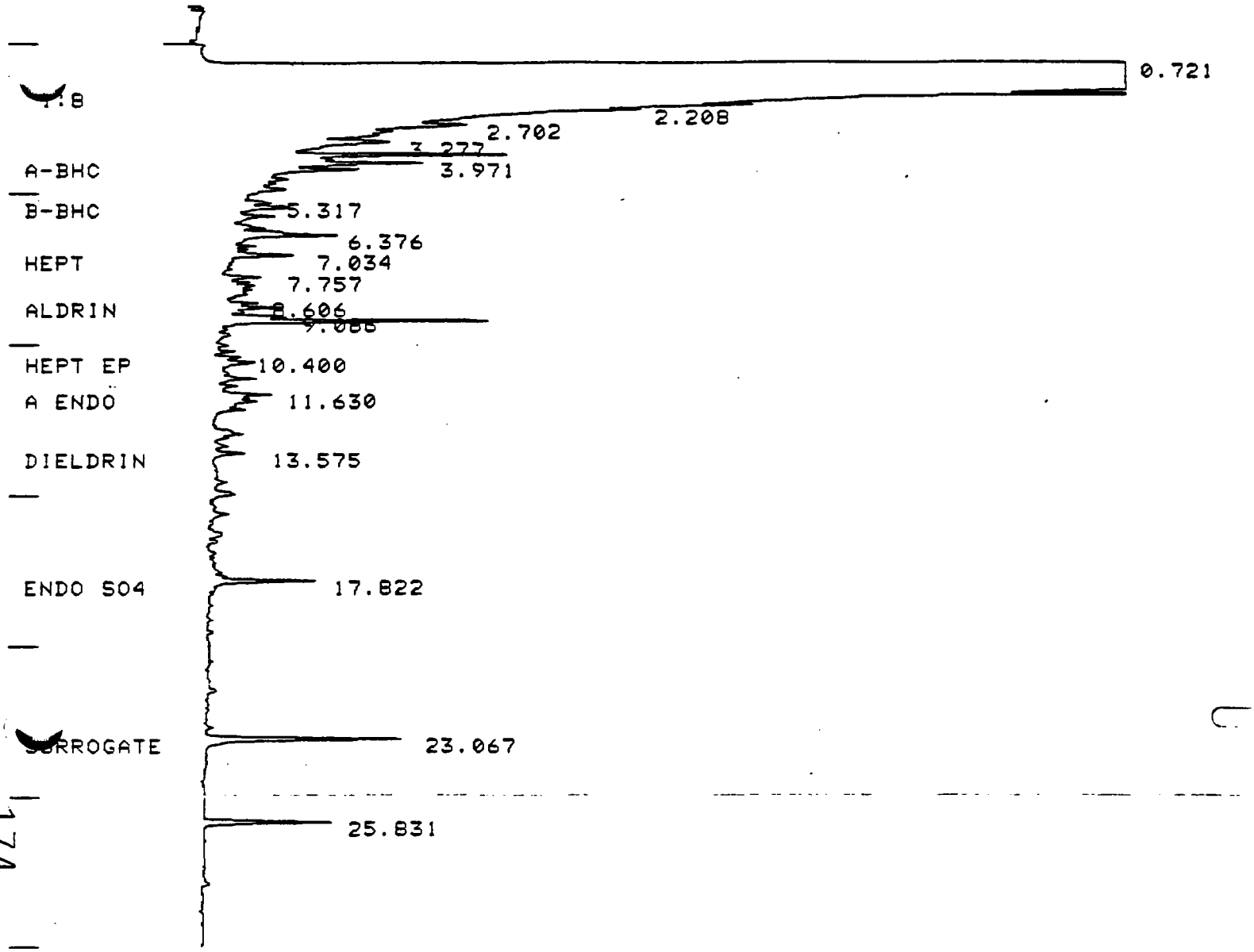
SAVED FILE: P1972

NOTES:
4 µl INJECTION
1.5%SP2250/1.95%SP2401
[illegible] =2

(VA) varian /sunnyvale,calif p/n 03-906362-00

Sunnyvale, Calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



200 µl/1ml

TITLE: RUN# 19 08-22 7:34 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091750 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.721		1939340	0.08	BV		7.85
2		0.0000	0.905		2449580	0.10	VV	?	24.20
3		0.0000	1.702		460474	0.19	VV	?	7.85
4		0.0000	2.036		146849	0.23	VV	?	3.10
5		0.0000	2.208		229920	0.25	VV	?	3.05
6		0.0000	2.702		79229	0.31	VV	?	6.30
7		0.0000	2.858		67584	0.33	VV	?	
8		0.0000	3.277		51328	0.37	VV	?	10.80
9		0.0000	3.686		60670	0.42	VV		5.85
10		0.0000	3.971		47544	0.45	VV	?	13.35
11	A-BHC	0.0672	4.179	-0.071	19135	0.48	VB	?	5.10
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	?	[illegible]

174

74

200 µl/1ml

TITLE: RUN# 19 08-22 7:34 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091750 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE	W1/2 (SEC)
1		0.0000	0.721		1939340	0.08	BV	7.85
2		0.0000	0.905		2449580	0.10	VV	? 24.20
3		0.0000	1.702		460474	0.19	VV	? 7.85
4		0.0000	2.036		146849	0.23	VV	? 3.10
5		0.0000	2.208		229920	0.25	VV	? 3.05
6		0.0000	2.702		79229	0.31	VV	? 6.30
7		0.0000	2.858		67584	0.33	VV	?
8		0.0000	3.277		51328	0.37	VV	? 10.80
9		0.0000	3.686		60670	0.42	VV	5.85
10		0.0000	3.971		47544	0.45	VV	? 13.35
11	A-BHC	0.0672	4.179	-0.071	19185	0.48	VB	? 5.10
12	G-BHC	0.0204	5.317	0.187	5663	0.61	BV	? 2.75
13		0.0000	5.461		11790	0.62	VV	6.95
14	D-BHC	0.0277	5.756	-0.154	7410	0.66	VB	4.00
15		0.0000	6.376		22031	0.73	BB	5.55
16		0.0000	7.034		10854	0.80	BB	4.95
17	HEPT	0.0216	7.757	0.187	4998	0.88	BV	4.65
18		0.0000	7.927		1593	0.90	VV	? 2.10
19		0.0000	8.030		2520	0.92	VB	? 5.60
20		0.0000	8.606		4701	0.98	BV	4.00
21	ALDRIN	0.0290	8.761	-0.159	9781	1.00	VV	? 4.40
22		0.0000	9.086		17097	1.04	VV	? 8.50
23		0.0000	9.209		42729	1.05	VB	4.35
24		0.0000	10.400		4307	1.19	BV	? 4.40
25	HEPT EP	0.0328	10.562	-0.188	8680	1.21	VB	? 6.55
26	A ENDO	0.0121	11.630	-0.790	4097	1.33	BB	5.10
27	DIELDRIN	0.0244	13.575	-0.145	6746	1.55	BB	? 5.50
28	ENDO SO4	0.0720	17.822	0.142	19982	2.03	BB	5.30
29	SURROGATE	0.1631	23.067	-0.503	42077	2.63	BB	5.70
30		0.0000	25.831		25086	2.95	BB	5.70
TOTALS:		0.4703		-1.494	5803840			

DETECTED PKS: 30 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -272

RACK: 2 VIAL: 4 INJ: 1

SAVED FILE: P665

NOTES:

C#6, SPB-5
UL INJECTED
0.32MM ID: 30M
155°C (3 MIN) ---> 270°C @3°C/MIN

varian /sunnyvale, calif. p/n 03 906362 00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-23

15091751

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/17/85

Date Analyzed: 10/22/85

Conc/Dil Factor: 5

CAS Number		ug/~~l or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	2.1
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

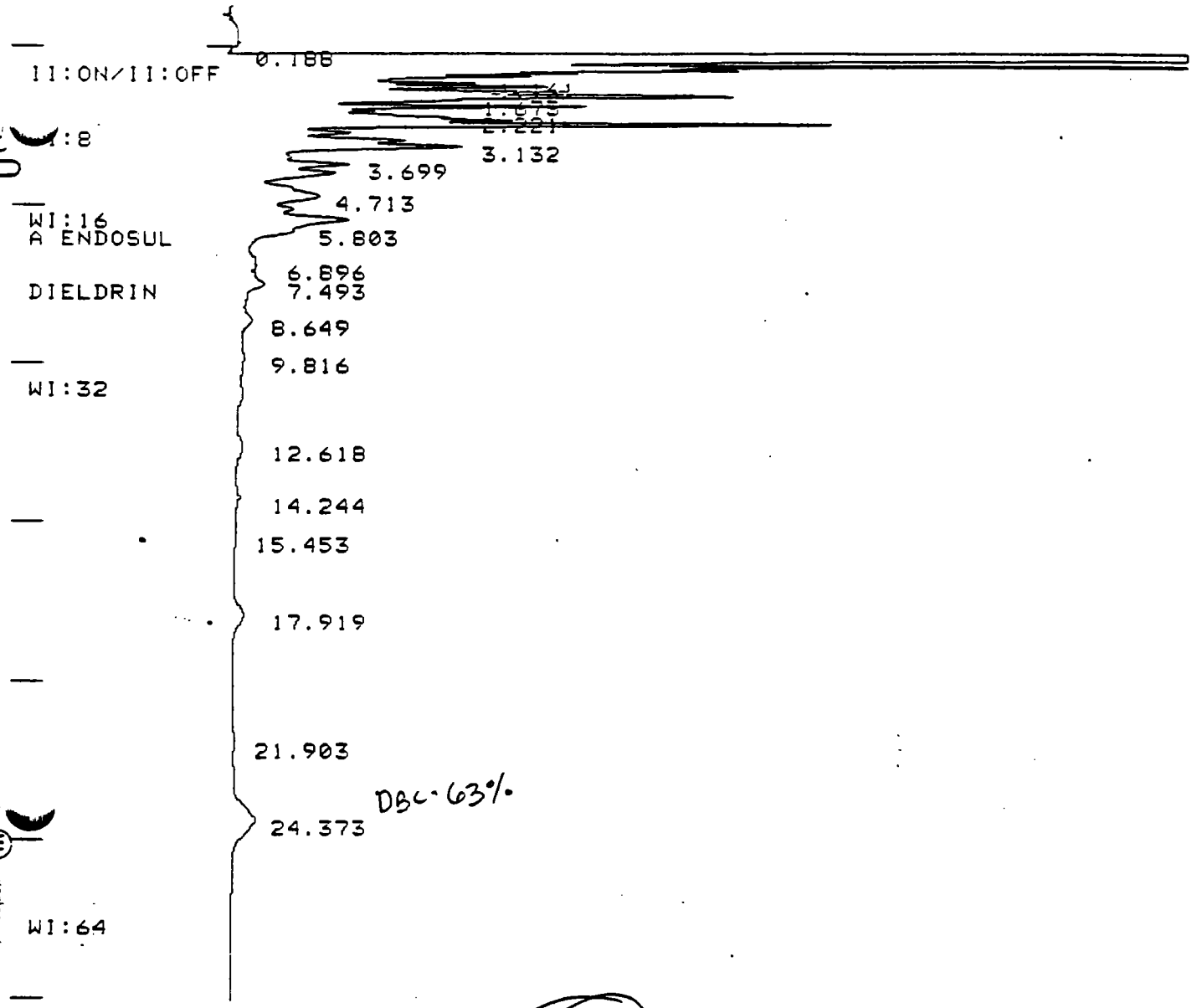
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100 µl/ml

08-23

TITLE: RUN # 27 6:53 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091751 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.285		123291	VB	5.60
2		0.0000	0.446		17692	BB	1.55
3		0.0000	0.644		31807	BV	2.30
4		0.0000	0.732		2815	VV ?	1.50
5		0.0000	0.782		3731	VV ?	2.40
6		0.0000	0.861		1756	VV	1.65
7		0.0000	0.952		1617	VB	2.35
8		0.0000	1.161		1511	BV	3.25
9		0.0000	1.271		2690	VV	4.20
10		0.0000	1.445		3164	VV ?	5.30
11	--EHC	0.0042	1.579	0.035	5744	VV ?	7.50
12		0.0000	1.673		1734	VV ?	5.10
13		0.0000	1.871		3724	VV	4.20

varian /sunnyvale,calif p/n 03 906362 00

100 µl/ml

08-23

TITLE: RUN # 27 6:53 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091751 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.285		123291	VB		5.60
2		0.0000	0.446		17692	BB		1.55
3		0.0000	0.644		31807	BV		2.30
4		0.0000	0.732		2815	VV	?	1.50
5		0.0000	0.782		3731	VV	?	2.40
6		0.0000	0.861		1756	VV		1.65
7		0.0000	0.952		1617	VB		2.35
8		0.0000	1.161		1511	BV		3.25
9		0.0000	1.271		2690	VV		4.20
10		0.0000	1.445		3164	VV	?	5.30
11	A-BHC	0.0042	1.579	0.039	5744	VV	?	7.50
12		0.0000	1.673		1734	VV	?	5.10
13		0.0000	1.871		3744	VV		4.20
14	G-BHC	0.0007	2.012	0.032	668	VV		4.25
15		0.0000	2.221		1916	VV	?	7.30
16	B-BHC	0.0090	2.319	-0.011	2878	VV	?	7.50
17		0.0000	2.456		7776	VV		5.50
18	D-BHC	0.0011	2.696	-0.024	678	VV		6.20
[illegible]	ALDRIN	0.0026	2.942	-0.048	1584	VV	?	9.30
[illegible]		0.0000	3.132		2511	VV		9.95
21		0.0000	3.699		1054	VV		8.45
22		0.0000	3.968		966	VV		10.50
23		0.0000	4.713		861	VV	?	22.10
24		0.0000	5.116		519	VV	?	12.90
25		0.0000	5.448		1393	VV		17.70
26	A ENDOSUL	0.0021	5.803	-0.157	598	VV	?	10.80
27		0.0000	6.896		115	VV	?	28.30
28	DIELDRIN	0.0012	7.493	0.093	282	VV	?	14.15
29	ENDRIN	0.0008	8.649	-0.381	147	VB		21.00
30	ENDO SUL	0.0023	17.919	-0.661	145	BB		40.35
31	DBC	0.0063	24.373	-1.157	329	VB		57.30
TOTALS:		0.0303		-2.275	225716			

DETECTED PKS: 40 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 69

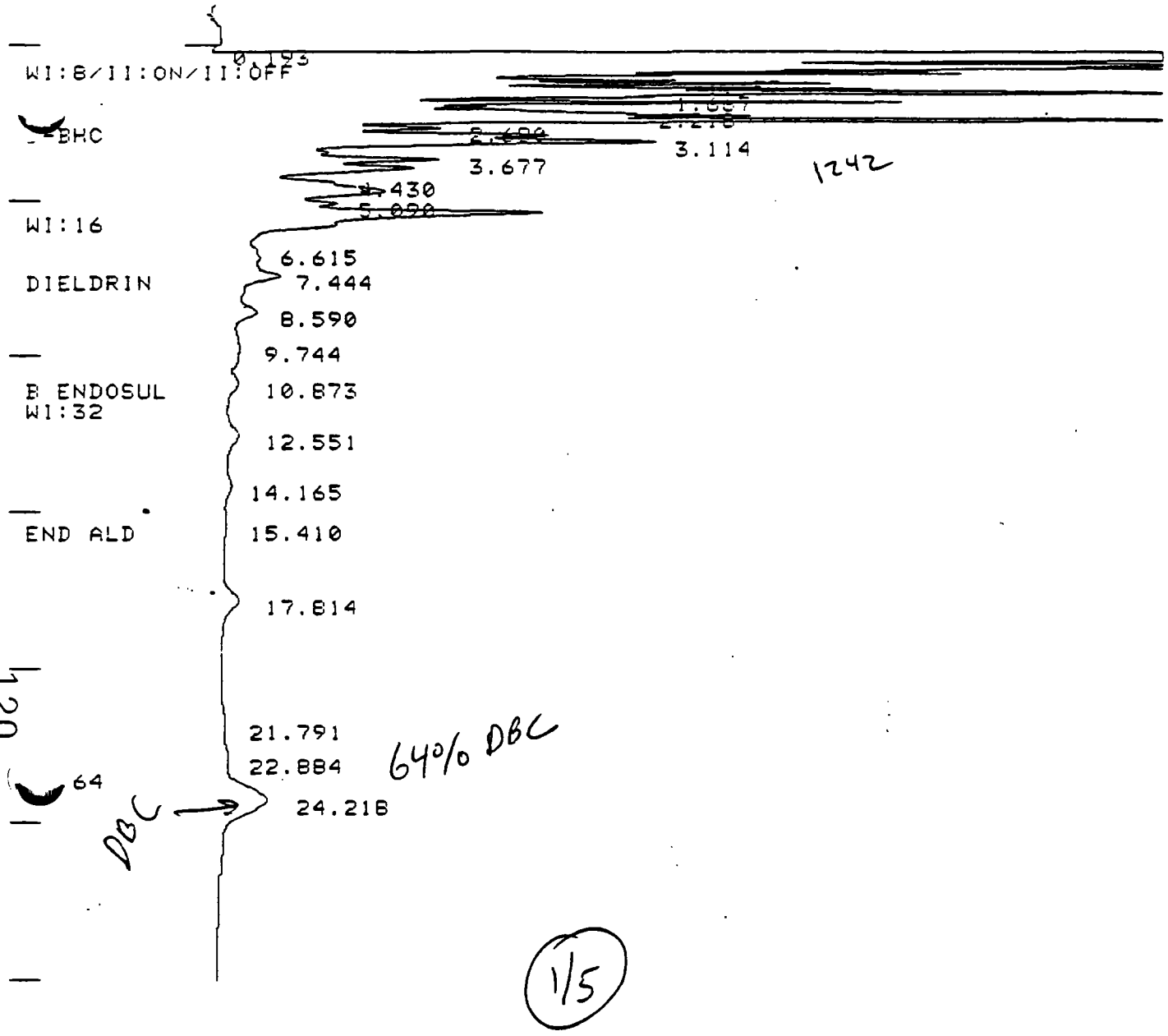
RACK: 2 VIAL: 12 INJ: 1

SAVED FILE: P1934

NOTES:
4 UL INJECTION
5%SP2250/1.95%SP2401
#2

61

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



08-23

TITLE: RUN # 29 1:14 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091751 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.288		129669	VB	6.30
2		0.0000	0.447		30467	BB	1.80
3		0.0000	0.645		53657	BV	2.45
4		0.0000	0.731		6390	VV ?	0.50
5		0.0000	0.780		8641	VV ?	2.30
6		0.0000	0.857		4496	VV	1.65
7		0.0000	0.948		5833	VB	2.35
8		0.0000	1.157		2885	BV	3.35
9		0.0000	1.266		5416	VV	4.00
10		0.0000	1.439		6367	VV ?	4.90
11	--B-:	0.0000	1.570	0.030	11581	VV	5.65
12		0.0000	1.667		3413	VV ?	3.50
13		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]

(1/5)

1242 = 3.51 Ht. x 0.1202 µg/ml Ht. x 1ml x 5 = 2.1 µg

08-23

TITLE: RUN # 29 1:14 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091751 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.288		129669	VB		6.30
2		0.0000	0.447		30467	BB		1.80
3		0.0000	0.645		53657	BV		2.45
4		0.0000	0.731		6390	VV	?	0.50
5		0.0000	0.780		8641	VV	?	2.30
6		0.0000	0.857		4496	VV		1.65
7		0.0000	0.948		5833	VB		2.35
8		0.0000	1.157		2885	BV		3.35
9		0.0000	1.266		5416	VV		4.00
10		0.0000	1.439		6367	VV	?	4.90
11	A-BHC	0.0086	1.570	0.030	11581	VV		6.65
12		0.0000	1.667		3413	VV	?	3.90
13		0.0000	1.863		7470	VV		4.15
14	G-BHC	0.0013	2.002	0.022	1272	VV		4.15
15		0.0000	2.218		3791	VV	?	7.70
16	B-BHC	0.0176	2.307	-0.023	5649	VV	?	7.20
17		0.0000	2.442		16081	VV	?	3.20
18	D-BHC	0.0022	2.680	-0.040	1306	VV		6.10
19	ALDRIN	0.0052	2.927	-0.063	3136	VV	?	9.40
20		0.0000	3.114		4972	VV		10.30
21		0.0000	~~3.461~~	H~ 3.51	~~152~~	T		5.30
22		0.0000	3.677		2070	VV		8.55
23		0.0000	3.945		1874	VV		10.80
24		0.0000	4.430		853	VV	?	11.50
25		0.0000	4.687		1717	VV	?	22.05
26		0.0000	5.090		1048	VV	?	13.00
27		0.0000	5.407		4272	VV		13.75
28	A ENDOSUL	0.0041	5.770	-0.190	1189	VV	?	10.95
29		0.0000	6.615		134	VV	?	15.40
30		0.0000	6.854		201	VV	?	16.90
31	DIELDRIN	0.0023	7.444	0.044	528	VB	?	13.90
32	ENDRIN	0.0017	8.590	-0.440	288	BV		21.10
33		0.0000	9.744		109	VV	?	30.45
34	B ENDOSUL	0.0009	10.873	-0.307	119	VB		24.80
35		0.0000	12.551		164	BV		34.00
36	ENDO SUL	0.0038	17.814	-0.766	243	BB		40.00
37		0.0000	22.884		124	VV	?	55.80
38	DDE .0128	~~0.0000~~ 5M	24.218		727	VB		57.85
TOTALS:		0.0477		-1.733	328304			

DETECTED PKS: 43 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 7

RACK: 2 VIAL: 13 INJ: 1

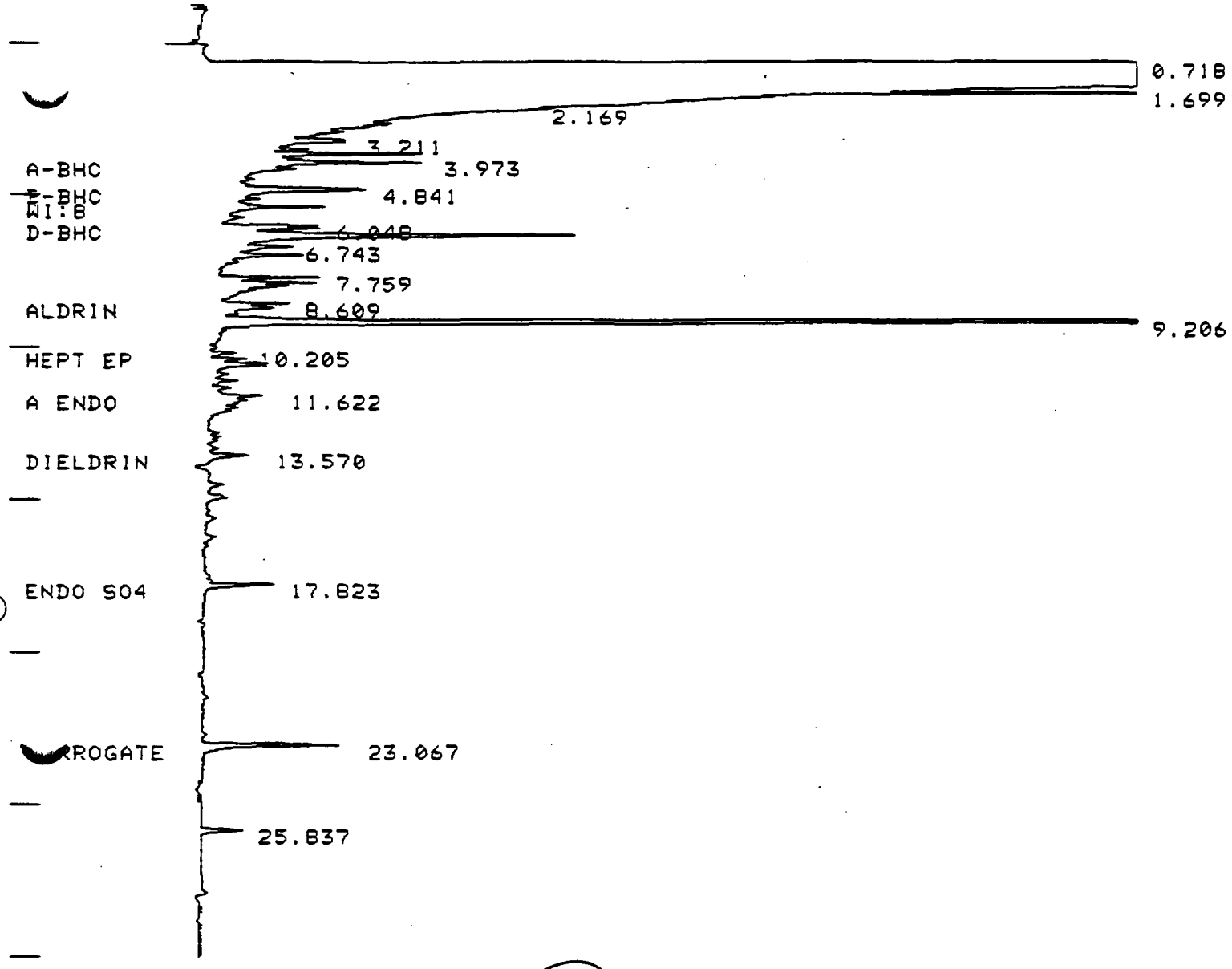
ED FILE: P1974

NOTES:
4 UL INJECTION
1.5%SP2250 1.95%SP2401
GC #2

varian /sunnyvale, calif. p/n 03-906362-00

175

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



200µl/1ml

TITLE: RUN# 20 08-23 8:20 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091751 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.718		1825480	0.08	BV		6.90
2		0.0000	0.902		1101900	0.10	VV	?	1.80
3		0.0000	1.167		957702	0.14	VV	?	2.05
4		0.0000	1.699		172222	0.20	VV	?	7.00
5		0.0000	1.774		125407	0.20	VV	?	
6		0.0000	1.959		44179	0.23	VV	?	0.70
7		0.0000	2.015		71310	0.23	VV	?	
8		0.0000	2.169		55412	0.25	VB	?	
9		0.0000	3.211		6298	0.37	BV	?	3.50
10		0.0000	3.248		7306	0.38	VB	?	4.50
11		0.0000	3.535		3538	0.41	BV		3.40
12		0.0000	3.977		[illegible]	0.46	VB		[illegible]

(VA) varian / sunnyvale, calif. p/n 03-906362-00

TITLE: RUN# 20 08-23 8:20 23 OCT 85

CHANNEL NO: 1 SAMPLE: 15091751 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.718		1825480	0.08	BV		6.90
2		0.0000	0.902		1101900	0.10	VV	?	1.80
3		0.0000	1.167		957702	0.14	VV	?	2.05
4		0.0000	1.699		172222	0.20	VV	?	7.00
5		0.0000	1.774		125407	0.20	VV	?	
6		0.0000	1.959		44179	0.23	VV	?	0.70
7		0.0000	2.015		71310	0.23	VV	?	
8		0.0000	2.169		55412	0.25	VB	?	
9		0.0000	3.211		6298	0.37	BV	?	3.50
10		0.0000	3.248		7306	0.38	VB	?	4.50
11		0.0000	3.535		3538	0.41	BV		3.40
12		0.0000	3.677		19056	0.42	VB		4.15
13	A-BHC	0.0678	3.973	-0.277	19376	0.46	BB		3.95
14	B BHC	0.2529	4.841	-0.139	25590	0.56	BB	?	7.35
15	G-BHC	0.0572	5.425	0.295	15850	0.63	BB		3.60
16	D-BHC	0.0441	6.048	0.138	11796	0.70	BV	?	3.70
17		0.0000	6.135		14616	0.71	VV	?	5.30
18		0.0000	6.376		96281	0.73	VV		6.25
19		0.0000	6.743		11766	0.78	VV		7.00
20		0.0000	7.021		15634	0.81	VB		4.95
21	HEPT	0.0570	7.759	0.189	13195	0.89	BV		4.20
22		0.0000	7.925		11369	0.91	VV	?	4.60
23		0.0000	8.030		7100	0.93	VB	?	9.30
24		0.0000	8.609		10426	0.99	BV		4.90
25	ALDRIN	0.0351	8.669	-0.251	11831	1.00	VV	?	18.10
26		0.0000	9.206		535903	1.06	VB		4.30
27		0.0000	10.205		3535	1.18	BV	?	4.15
8		0.0000	10.396		5653	1.20	VV		5.65
9	HEPT EP	0.0498	10.570	-0.180	13205	1.22	VB		7.70
30	A ENDO	0.0096	11.622	-0.798	3256	1.34	BB		5.60
31	DIELDRIN	0.0453	13.570	-0.150	12493	1.57	BB		5.50
32	ENDO SO4	0.0411	17.823	0.143	11398	2.06	BB		4.45
33	SURROGATE	0.1167	23.067	-0.503	30088	2.66	BB		5.90
34		0.0000	25.837		8635	2.98	BB		5.95
TOTALS:		0.7766		-1.533	5278810				

DETECTED PKS: 34 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 72.8 OFFSET: -275

RACK: 2 VIAL: 5 INJ: 1

SAVED FILE: P666

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270°C @3°C/MIN

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK

176

varian, sunnyvale, calif p n 03 906362 00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-24

15091748

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/17/85

Date Analyzed: 10/21/85

Conc/Dil Factor: 5

CAS Number		ug/l PUF ~~or ug/Kg~~ (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	< 0.5
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

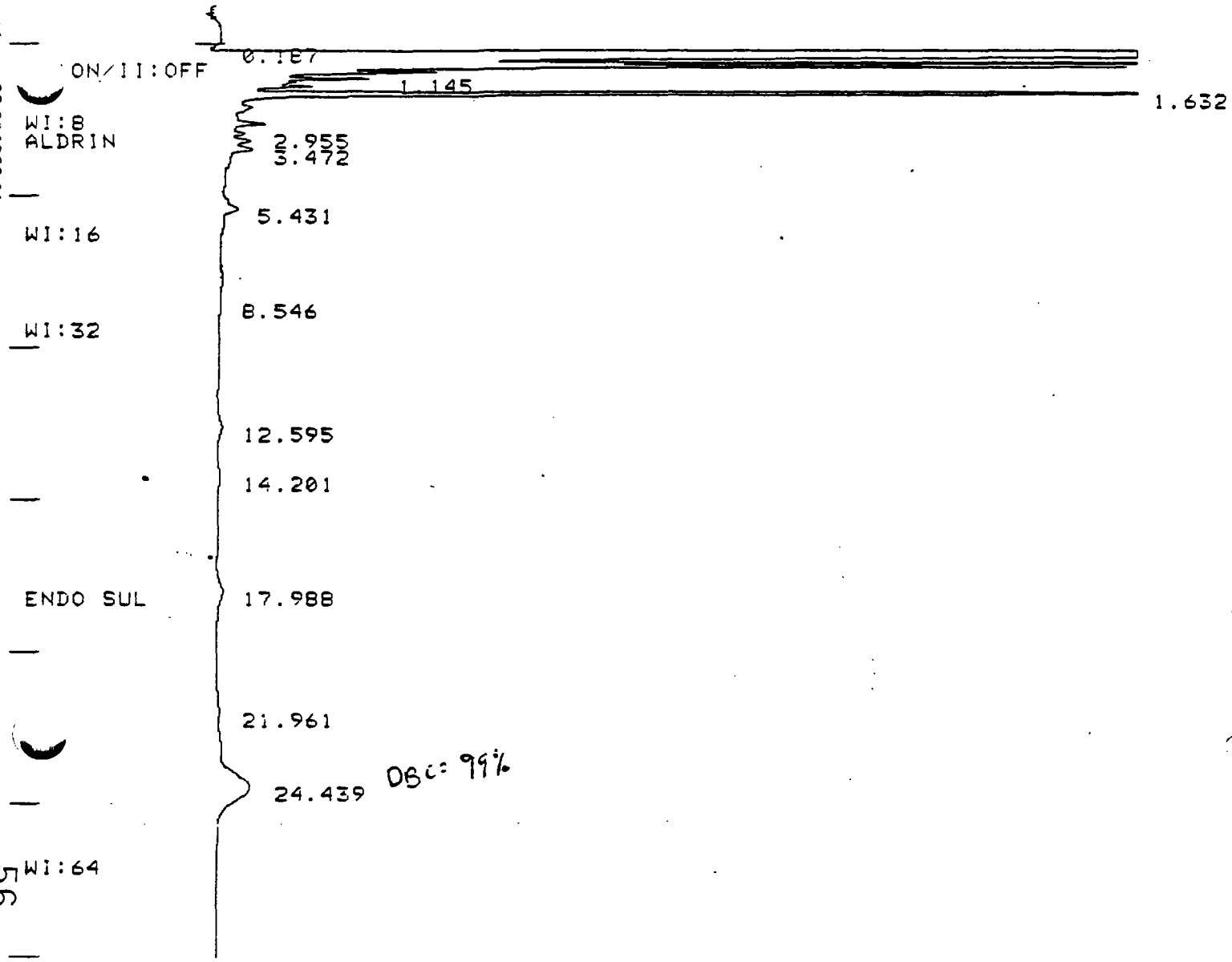
W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

/sunnyvale.calif p.n 03 906362 00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100 µl/1 ml

08-24

TITLE: RUN #24 5:15 18 OCT 85

CHANNEL NO: 2 SAMPLE: 1509174B METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.287		121809	VB	6.00
2		0.0000	0.645		26096	BV	2.20
		0.0000	0.717		4198	VV ?	2.40
		0.0000	0.775		11353	VV	2.40
5		0.0000	0.917		1559	VB	2.30
6		0.0000	1.145		1304	BV	3.10
7		0.0000	1.268		320	VV	2.65
8		0.0000	1.404		711	VB	2.65
9		0.0000	1.632		38794	BB	4.05
10	[illegible]	0.0000	2.067	0.067	228	BB	2.70
11	[illegible]	0.0000	2.227	-0.073	495	VV	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

(W)

100 µl/ml

08-24

TITLE: RUN #24 5:15 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091748 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.287		121809	VB		6.00
2		0.0000	0.645		26096	BV		2.20
3		0.0000	0.717		4198	VV	?	2.40
4		0.0000	0.775		11353	VV		2.40
5		0.0000	0.917		1559	VB		2.30
6		0.0000	1.145		1304	BV		3.10
7		0.0000	1.268		320	VV		2.65
8		0.0000	1.404		711	VB		2.65
9		0.0000	1.632		28794	BB		4.05
10	G-BHC	0.0002	2.067	0.087	228	BB		6.70
11	D-BHC	0.0008	2.627	-0.093	489	VV		5.90
12	ALDRIN	0.0003	2.955	-0.035	172	VV		6.25
13		0.0000	3.187		299	VV		7.90
14		0.0000	3.472		352	VB		8.65
15		0.0000	5.431		230	BB	?	14.80
16	DBC	0.0099	24.439	-1.091	518	VB		59.40
TOTALS:		0.0112		-1.132	198432			

DETECTED PKS: 23 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

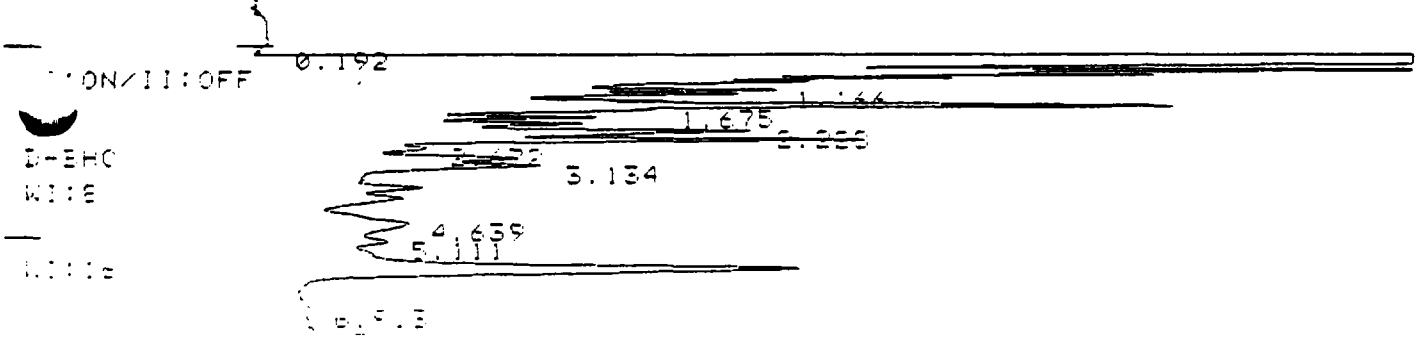
NOISE: 2.4 OFFSET: 43

RACK: 2 VIAL: 9 INJ: 1

SAVED FILE: P1931

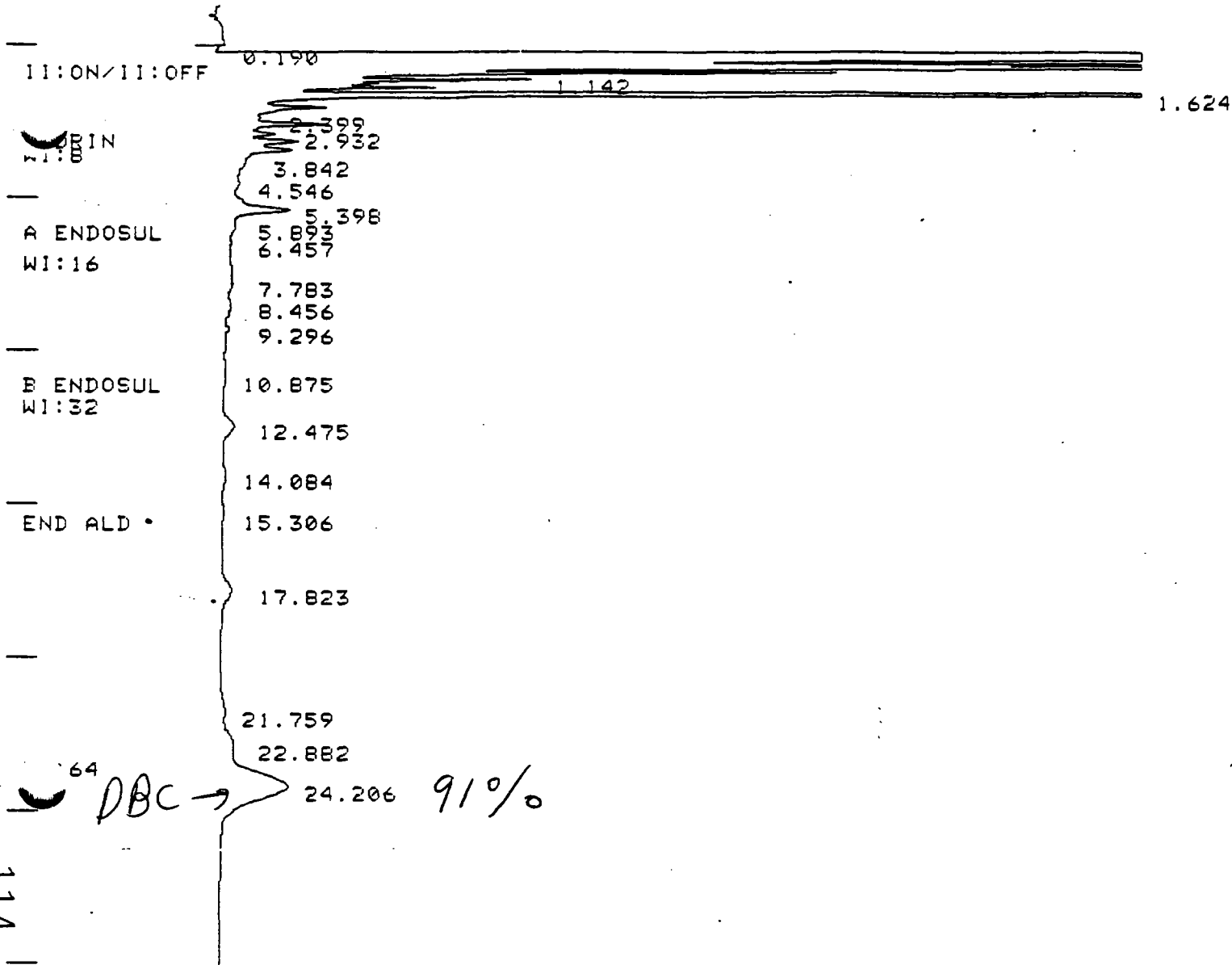
NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



varian /sunnyvale,calif p/n 03 906362 00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



114

115

08-24

TITLE: RUN # 25 23:01 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15091748 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.293		127457	VV	?	4.80
2		0.0000	0.337		78588	VB	?	3.80
3		0.0000	0.645		46335	BV		2.30
4		0.0000	0.717		10035	VV	?	2.90
[illegible]		0.0000	0.774		27150	VV		2.55
[illegible]		0.0000	0.917		6017	VB		2.50
7		0.0000	1.142		2752	BV		3.20
8		0.0000	1.264		668	VV		2.60
9		0.0000	1.398		1821	VB		2.80
10		0.0000	1.624		57335	BB		4.55
11	G-BHC	0.0010	2.048	0.0[illegible]	[illegible]43	BV		4.95
12	[illegible]	0.0019	2.606	-0.1[illegible]	1107	[illegible]		[illegible]
13	[illegible]	0.0005	2.932	-0.0[illegible]	[illegible]			[illegible]

WI:64

22.882

24.206

11.4

115

08-24

TITLE: RUN # 25 23:01 21 OCT 85

CHANNEL NO: 2 SAMPLE: 1509174B METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.293		127457	VV	?	4.80
2		0.0000	0.337		78588	VB	?	3.80
3		0.0000	0.645		46335	BV		2.30
4		0.0000	0.717		10035	VV	?	2.90
5		0.0000	0.774		27150	VV		2.55
6		0.0000	0.917		6017	VB		2.50
7		0.0000	1.142		2752	BV		3.20
8		0.0000	1.264		668	VV		2.60
9		0.0000	1.398		1821	VB		2.80
10		0.0000	1.624		57335	BB		4.55
11	G-BHC	0.0010	2.048	0.068	943	BV		4.95
12	D-BHC	0.0019	2.608	-0.112	1107	VV		6.00
13	ALDRIN	0.0005	2.932	-0.058	330	VV		6.35
14		0.0000	3.170		710	VV		8.20
15		0.0000	3.448		655	VB		8.65
16		0.0000	5.398		876	BV		12.60
17		0.0000	12.475		155	BB		29.10
18	ENDO SUL	0.0022	17.823	-0.757	142	BB		41.10
19		0.0000	22.882		210	VV	?	58.00
20	DBC .0912	~~0.0000~~	24.206		1036	VB		59.35
TOTALS:		0.0056		-0.859	364322			

DETECTED PKS: 34 REJECTED PKS: 14

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 58

RACK: 2 VIAL: 9 INJ: 1

SAVED FILE: P1970

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED: 0.5 CM/MIN
ATTEN: 16 DEPTH: 10% 5 MIN/TICK

varian / sunnyvale calif p/n 03 906392 00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-25 15091752

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/18/85

Date Analyzed: 11/06/85

Conc/Dil Factor: 25

CAS Number		ug /PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.5
11104-28-2	Aroclor-1221	< 2.5
11141-16-5	Aroclor-1232	< 2.5
53469-21-9	Aroclor-1242	8.2
12672-29-6	Aroclor-1248	< 2.5
11097-69-1	Aroclor-1254	< 5.0
11096-82-5	Aroclor-1260	< 5.0

V_i = Volume of extract injected (ul)

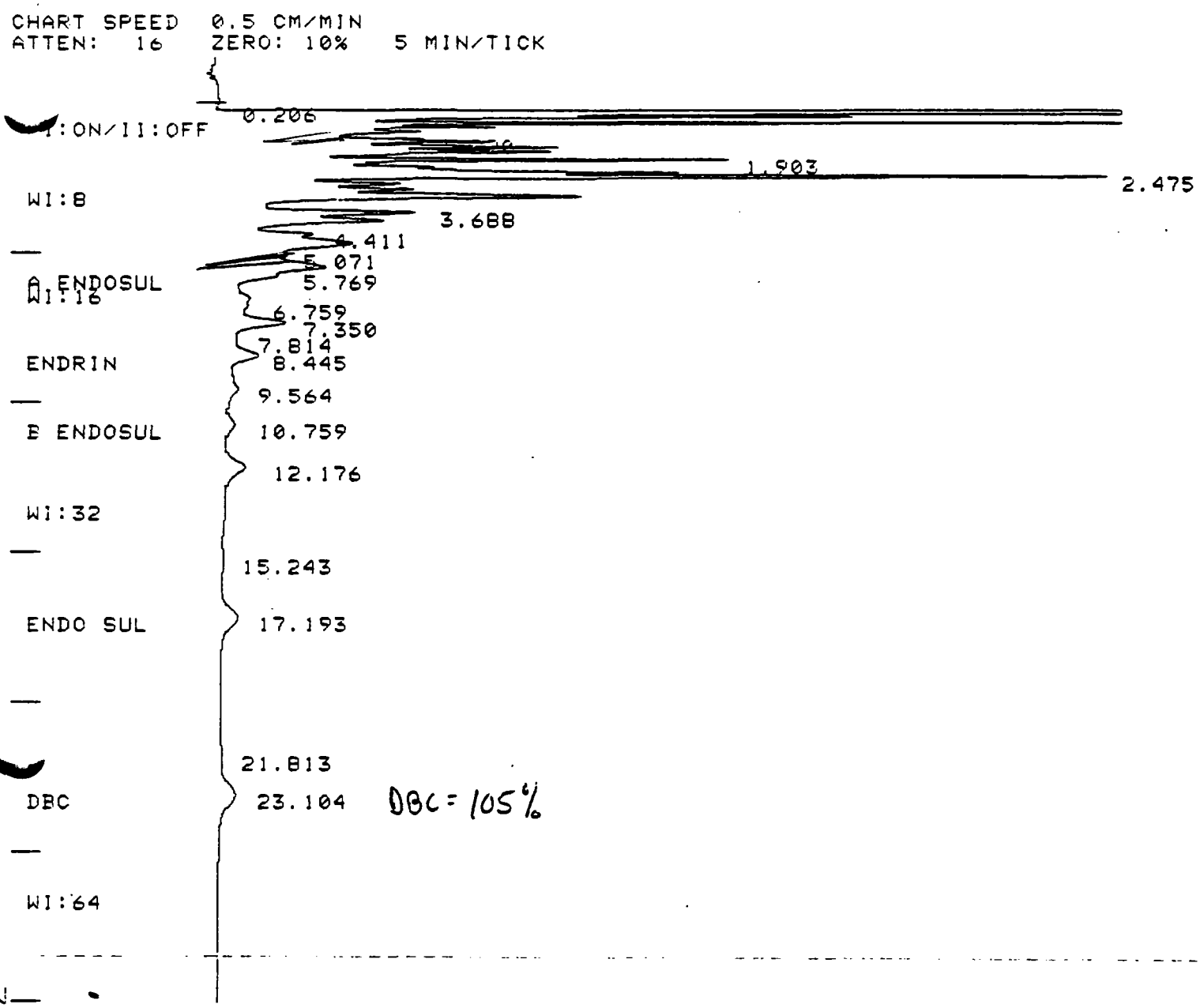
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4

varian /sunnyvale, calif. p/n 03-906362-00



73

1/25

08-25

TITLE: RUN # 10 16:27 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091752 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.303		115049	VB		4.80
2		0.0000	0.478		5304	BB		2.05
3		0.0000	0.677		17675	BV		2.40
4		0.0000	0.817		2107	VV		2.45
5		0.0000	0.973		1104	VV		3.45
6		0.0000	1.220		1401	VV	?	3.40
7		0.0000	1.303		2501	VV		4.80
8		0.0000	1.483		3631	VV		5.45
9	A-BHC	0.0028	1.623	0.003	3611	VV		5.70
10		0.0000	1.903		5566	VV		4.40

1/25

$\frac{.5}{6.55} = .076$

$.1076 \times 4.32 \times 10 \times \frac{1}{25} = 8.2$

08-25 25

TITLE: RUN # 10 16:27 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091752 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.303		115049	VB		4.80
2		0.0000	0.478		5304	BB		2.05
3		0.0000	0.677		17675	BV		2.40
4		0.0000	0.817		2107	VV		2.45
5		0.0000	0.973		1104	VV		3.45
6		0.0000	1.220		1401	VV	?	3.40
7		0.0000	1.303		2501	VV		4.80
8		0.0000	1.483		3631	VV		5.45
9	A-BHC	0.0028	1.623	0.003	3611	VV		5.70
10		0.0000	1.903		6566	VV		4.40
11	G-BHC	0.0012	~~2.038~~	-0.012	~~1095~~	VV	?	6.00
12		0.0000	2.162		2033	VV	?	5.10
13	B-BHC	0.0178	2.343	-0.017	6007	VV	?	7.00
14		0.0000	2.475		12926	VV		5.65
15	D-BHC	0.0031	2.715	-0.025	1793	VV		6.65
16	ALDRIN	0.0031	2.906	-0.104	2086	VV		7.25
17		0.0000	3.129		4871	VB		9.20
18		0.0000	3.688		2413	BV		9.75
19		0.0000	3.944		1962	VV		11.50
20		0.0000	4.411		917	VV	?	10.20
21		0.0000	4.707		1583	VV	?	20.05
22		0.0000	5.071		624	VV	?	9.70
23		0.0000	5.506		1259	VV	?	12.15
24	A ENDOSUL	0.0018	5.769	-0.011	562	VB	?	12.20
25		0.0000	6.527		193	BV	?	14.90
26		0.0000	6.759		174	VV	?	22.90
27	DIELDRIN	0.0032	7.350	0.240	792	VV		17.45
28	ENDRIN	0.0024	8.445	-0.185	409	VV		20.20
29		0.0000	9.564		141	VV		21.00
30	B ENDOSUL	0.0008	10.759	0.159	123	VV		25.30
31		0.0000	12.176		293	VB		31.55
32	ENDO SUL	0.0048	17.193	-0.087	263	BB		40.15
33	DBC	0.0042	23.104	0.054	266	VB		52.15
TOTALS:		0.0452		0.015	201734			

4.32

DETECTED PKS: 37 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

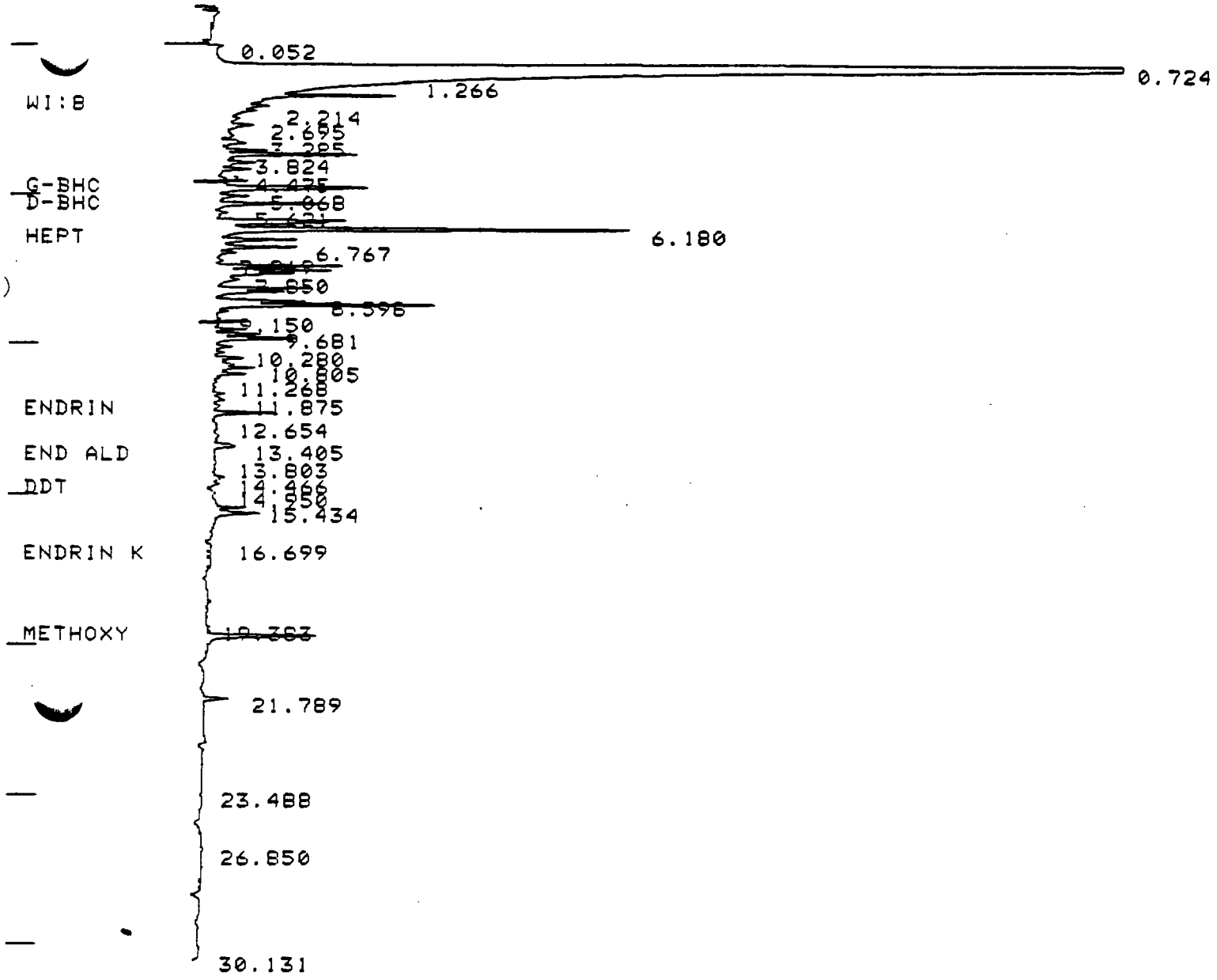
NOISE: 1.2 OFFSET: 39

RACK: 1 VIAL: 1 INJ: 1

SAVED FILE: P1184

NOTES:
1 UL INJECTION
1.5%SP2250/1.95%SP2401
GC =2

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



CC#6, SP-5, 2ul inj

08-25

TITLE: RUN# 5 22:09 7 NOV 85

CHANNEL NO: 1 SAMPLE: 15091752 METHOD: 6B P

PEAK	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3860	0.01	BB	?	3.20
2		0.0000	0.724		1127450	0.09	BV		6.45
3		0.0000	1.266		89609	0.16	VV	?	27.70
4		0.0000	1.711		35182	0.22	VV		4.45
5		0.0000	1.877		8589	0.24	VV	?	
6		0.0000	2.052		11880	0.26	VV	?	5.00
7		0.0000	2.214		10424	0.28	VV	?	4.00
8		0.0000	2.460		3163	0.31	VV	?	5.20
9		0.0000	2.495		3065	0.32	VV	?	

Run #5
15091752
08-25

NO	NAME	UG/ML	(MIN)	OFFSET	COUNTS		CODE		(SEC)
1		0.0000	0.052		3860	0.01	BB	?	3.20
2		0.0000	0.724		1127450	0.09	BV		6.45
3		0.0000	1.266		89609	0.16	VV	?	27.70
4		0.0000	1.711		35182	0.22	VV		4.45
5		0.0000	1.877		8589	0.24	VV	?	
6		0.0000	2.052		11880	0.26	VV	?	5.00
7		0.0000	2.214		10424	0.28	VV	?	4.00
		0.0000	2.460		3160	0.31	VV	?	5.20
		0.0000	2.498		3065	0.32	VV	?	
10		0.0000	2.695		10585	0.34	VV		6.90
11		0.0000	2.962		1678	0.38	VV	?	3.90
12		0.0000	3.039		3601	0.39	VV	?	7.50
13		0.0000	3.285		7935	0.42	VV		8.55
14		0.0000	3.528		6641	0.45	VV	?	2.25
15	A-BHC	0.0048	3.664	-0.036	20851	0.47	VV		4.00
16		0.0000	3.824		2090	0.49	VV	?	3.30
17		0.0000	3.940		8305	0.50	VV	?	2.70
18	B-BHC	0.0048	4.161	-0.189	6437	0.53	VV		4.00
19	G-BHC	0.0005	4.475	-0.035	1818	0.57	VV		4.95
20		0.0000	4.772 ✓		36081	0.61	VV		6.60
21		0.0000	5.068 ✓		5456	0.65	VV		3.70
22	D-BHC	0.0052	5.318 ✓	0.118	17338	0.68	VV		3.60
23		0.0000	~~5.621~~		~~1747~~	0.72	VV		4.55
24		0.0000	5.890 ✓		16252	0.75	VV	?	3.80
25		0.0000	5.959 ✓		15209	0.76	VV	?	4.80
26		0.0000	6.180 ✓		76717	0.79	VV		4.85
27		0.0000	6.518 ✓		14630	0.83	VV		4.65
28	HEPT	0.0059	6.767 ✓	0.107	13646	0.86	VV		4.10
29		0.0000	6.942 ✓		4621	0.88	VV		4.80
30		0.0000	7.219 ✓		2001	0.92	VV		4.70
31		0.0000	7.411 ✓		18164	0.94	VV		3.95
32		0.0000	7.561 ✓		17067	0.96	VV		4.35
33		0.0000	7.654 ✓		12742	0.98	VV	?	5.45
34	ALDRIN	0.0023	7.850	0.020	7977	1.00	VV	?	9.95
35		0.0000	8.153 ✓		13915	1.04	VV		4.10
36		0.0000	8.266 ✓		12216	1.05	VV	?	5.00
37		0.0000	8.598 ✓		17481	1.10	VV	?	6.20
		0.0000	8.710		30732	1.11	VV		3.85
		0.0000	8.902		2502	1.13	VV		4.45
40		0.0000	9.150		1970	1.17	VV		3.55
41	HEPT EP	0.0004	9.355	-0.035	1103	1.19	VV		5.00
42		0.0000	9.518		4458	1.21	VV		3.60
43		0.0000	9.681		7093	1.23	VV		4.35
44		0.0000	9.829		15990	1.25	VV		5.35
45		0.0000	10.092		3721	1.29	VV		4.40
46		0.0000	10.280		2102	1.31	VV		4.35
47		0.0000	10.472		4977	1.33	VV		4.30
48		0.0000	10.577		1660	1.35	VV	?	2.50
49		0.0000	10.689		4552	1.36	VV	?	6.50
50	A ENDO	0.0025	10.805	0.035	6560	1.38	VV	?	2.55
51		0.0000	10.904		1359	1.39	VV	?	0.90
52		0.0000	11.006		5353	1.40	VV	?	2.45
53		0.0000	11.115		1462	1.42	VV	?	4.40
54		0.0000	11.268		1015	1.43	VV	?	3.90
55		0.0000	11.665		2120	1.49	VV		4.00
56	DIELDRIN	0.0014	11.875	0.025	3632	1.51	VV		8.35
57	DDE	0.0010	12.059	-0.071	2646	1.54	VV		7.35
58		0.0000	12.291		10542	1.57	VV		4.10
59	ENDRIN	0.0008	12.654	-0.046	1618	1.61	VV	?	5.50
60		0.0000	12.774		1722	1.63	VV	?	
61	B ENDO	0.0012	13.056	-0.084	2750	1.66	VV	?	8.80
62		0.0000	13.405		9719	1.71	VV		8.55
63		0.0000	13.748		1841	1.75	VV	?	3.00
64	DDD	0.0013	13.803	-0.097	2515	1.76	VV	?	
65	END ALD	0.0011	14.150	0.140	2048	1.80	VV	?	4.15
66		0.0000	14.409		3519	1.84	VV	?	4.40
67		0.0000	14.466		1658	1.84	VV	?	8.70
		0.0000	14.637		2091	1.86	VB		4.10
	ENDO SO4	0.0005	14.950	-0.090	1032	1.90	BV	?	7.10
70	DDT	0.0031	15.434	-0.056	5341	1.97	VV		4.55
71		0.0000	15.621		8783	1.99	VB		5.60
72	SURROGATE	0.0087	19.692	-0.058	19651	2.51	VB		4.90
73		0.0000	21.789		4297	2.78	BB		4.85
74		0.0000	23.488		8777	2.99	BB	?	
75		0.0000	26.850		6709	3.42	BB	?	9.00
76		0.0000	30.131		20534	3.84	BB	?	22.70

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
08-27 15091753

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/18/85

Date Analyzed: 11/06/85

Conc/Dil Factor: 50

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	<5.0
11104-28-2	Aroclor-1221	<5.0
11141-16-5	Aroclor-1232	<5.0
53469-21-9	Aroclor-1242	14
12672-29-6	Aroclor-1248	<5.0
11097-69-1	Aroclor-1254	<10.0
11096-82-5	Aroclor-1260	<10.0

V_i = Volume of extract injected (ul)

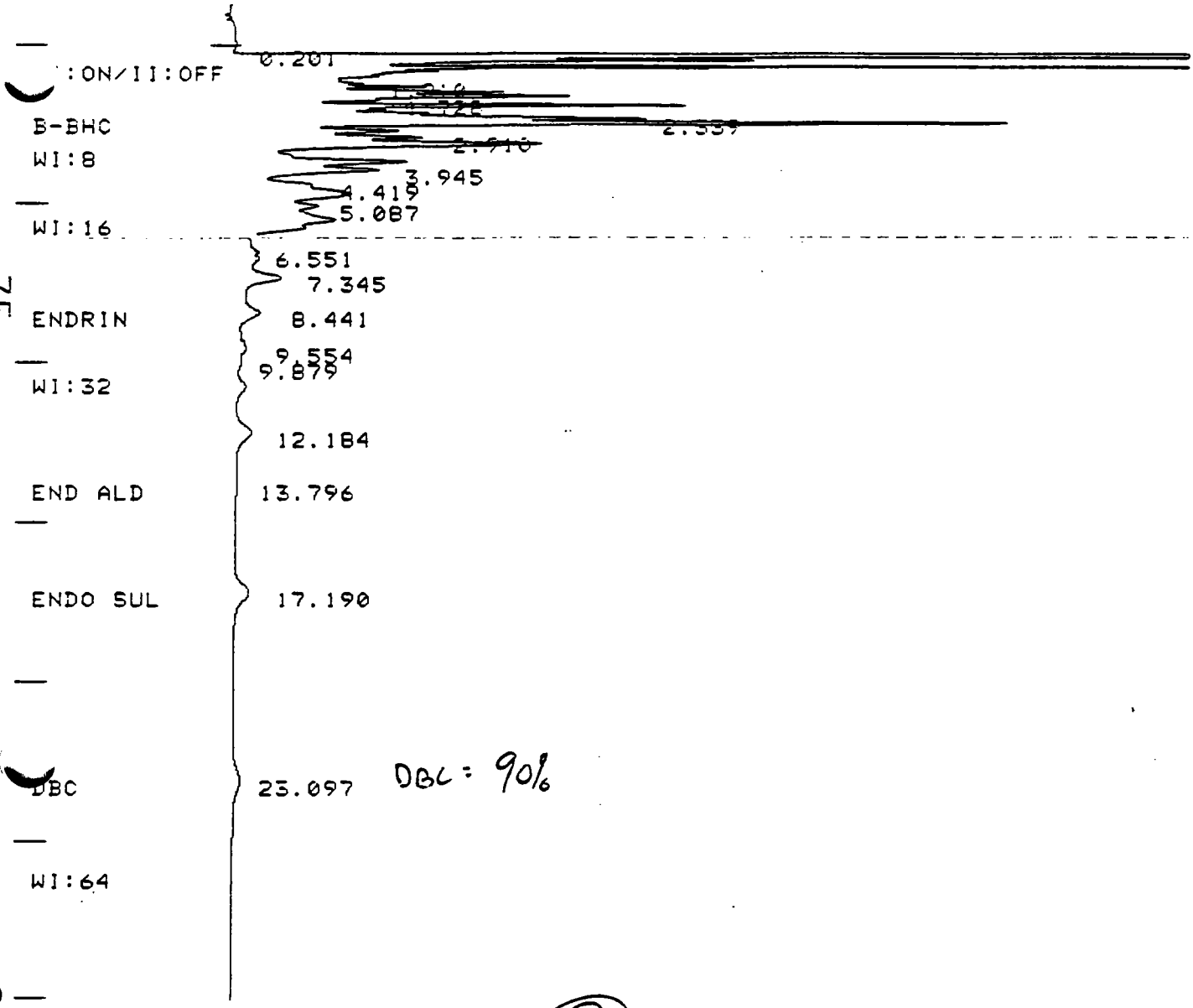
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



75

1150

TITLE: RUN # 11 08-27 17:00 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091753 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		108942	VB		4.55
2		0.0000	0.477		3633	BB		2.00
3		0.0000	0.676		14243	BV		2.40
4		0.0000	0.815		1083	VV		2.35
5		0.0000	0.902		415	VV		1.00
6		0.0000	0.981		443	VB		1.60
7		0.0000	1.210		454	VV		3.50
8		0.0000	1.312		1419	VV		3.75
9		0.0000	1.482		2634	VV		5.65
10	B-BHC	0.0038	1.618	-0.001	3673	VV	?	1.00
11		0.0000	1.733		375	VV	?	1.80

varian /sunnyvale, calif. p/n 03-906362-00

1/50

$.076 \times 3.71 \times 1 \times \frac{\cancel{1}\,50}{\cancel{50}\,JM} = 14$

TITLE: RUN # 11 08-27 17:00 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091753 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.302		108942	VB	4.55
2		0.0000	0.477		3633	BB	2.00
3		0.0000	0.676		14243	BV	2.40
4		0.0000	0.815		1083	VV	2.35
5		0.0000	0.902		415	VV	1.00
6		0.0000	0.981		443	VB	1.60
7		0.0000	1.210		454	VV	3.50
8		0.0000	1.312		1419	VV	3.75
9		0.0000	1.482		2634	VV	5.65
10	A-BHC	0.0028	1.618	-0.002	3673	VV	? 6.00
11		0.0000	1.728		896	VV	? 4.80
12		0.0000	1.902		5518	VV	4.50
13	G-BHC	0.0012	2.038	-0.012	1112	VV	? 4.60
14		0.0000	2.160		1805	VV	? 5.50
15	B-BHC	0.0152	2.339	-0.021	5130	VV	? 7.50
16		0.0000	2.475		10621	VV	? 3.45
17	D-BHC	0.0027	2.712	-0.028	1554	VV	6.35
18	ALDRIN	0.0029	2.910	-0.100	1963	VV	? 6.30
9		0.0000	3.127		3844	VV	9.35
20		0.0000	3.687		1979	VV	9.75
21		0.0000	3.945		1613	VV	11.65
22		0.0000	4.419		699	VV	? 11.10
23		0.0000	4.701		1305	VV	? 21.20
24		0.0000	5.087		865	VV	? 14.90
25		0.0000	5.531		1190	VV	? 28.90
26	A ENDOSUL	0.0025	5.767	-0.013	770	VV	? 4.45
27		0.0000	6.551		131	VV	? 16.10
28		0.0000	6.758		149	VV	? 22.25
29	DIELDRIN	0.0021	7.345	0.235	508	VB	16.65
30	ENDRIN	0.0014	8.441	-0.189	239	BV	19.50
31	B ENDOSUL	0.0007	10.737	0.137	102	VB	24.50
32		0.0000	12.184		212	BB	30.60
33	ENDO SUL	0.0039	17.190	-0.090	213	BB	39.95
34	DBC	0.0018	23.097	0.047	115	BB	49.35
TOTALS:		0.0372		-0.036	179472		

3.71

DETECTED PKS: 39 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 46

RACK: 1 VIAL: 2 INJ: 1

SAVED FILE: P1185

TES:
UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

76

varian /sunnyvale.calif.p/n 03-906362-00

GC #2

TITLE: RUN# 11 08-27 17:00 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091753 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		108942	0.10	VB		4.55
2		0.0000	0.477		3633	0.16	BB		2.00
3		0.0000	0.676		14243	0.22	BV		2.40
4		0.0000	0.815		1083	0.27	VV		2.35
5		0.0000	0.902		415	0.30	VV		1.00
6		0.0000	0.981		443	0.33	VB		1.60
7		0.0000	1.210		454	0.40	VV		3.50
8		0.0000	1.312		1419	0.44	VV		3.75
9		0.0000	1.482		2634	0.49	VV		5.65
10		0.0000	1.618		3673	0.54	VV	?	6.00
11		0.0000	1.728		896	0.57	VV	?	4.80
12		0.0000	1.902		5518	0.63	VV		4.50
13		0.0000	2.038		1112	0.68	VV	?	4.60
14		0.0000	2.160		1805	0.72	VV	?	5.50
15		0.0000	2.339		5130	0.78	VV	?	7.50
16	HEPT	0.0156	2.475	-0.025	10621	0.82	VV	?	3.45
17		0.0000	2.712		1554	0.90	VV		6.35
18		0.0000	2.910		1963	0.97	VV	?	6.30
19		0.0000	3.127		3844	1.04	VV		9.35
20		0.0000	3.687		1979	1.23	VV		9.75
21		0.0000	3.945		1613	1.31	VV		11.65
22		0.0000	4.419		699	1.47	VV	?	11.10
23		0.0000	4.701		1305	1.56	VV	?	21.20
24		0.0000	5.087		865	1.69	VV	?	14.90
25		0.0000	5.531		1190	1.84	VV	?	28.90
26		0.0000	5.767		770	1.92	VV	?	4.45
27		0.0000	6.551		131	2.18	VV	?	16.10
28	DDE	0.0006	6.758	0.038	149	2.24	VV	?	22.25
29		0.0000	7.345		508	2.44	VB		16.65
30		0.0000	8.441		239	2.80	BV		19.50
31		0.0000	10.737		102	3.57	VB		24.50
32		0.0000	12.184		212	4.05	BB		30.60
33		0.0000	17.190		213	5.71	BB		39.95
34	DBC	0.0018	23.097	0.047	115	7.67	BB		49.35
TOTALS:		0.0180		0.060	179472				

DETECTED PKS: 39 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 46

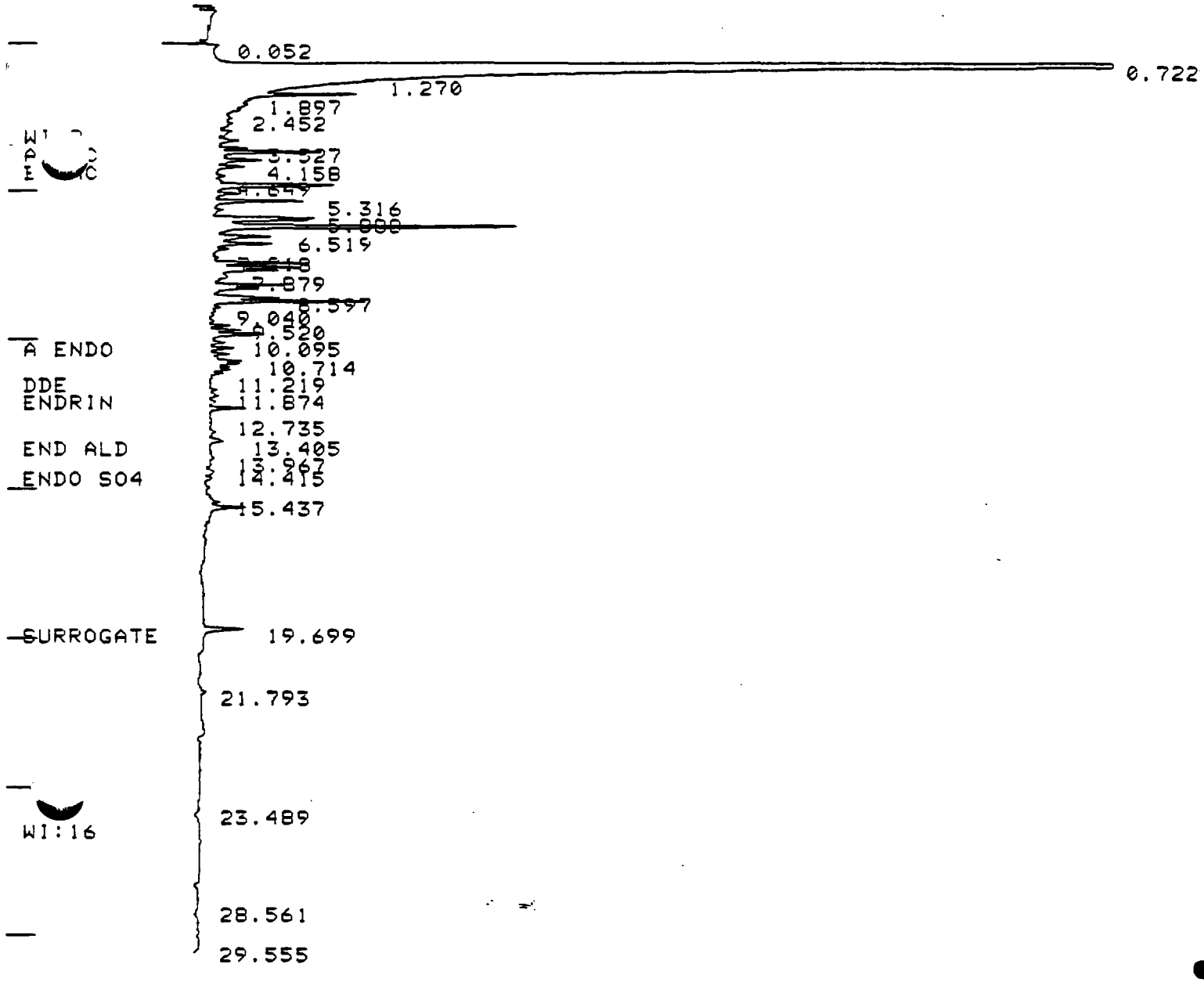
RACK: 1 VIAL: 2 INJ: 1

ERRORS:
REL RETEN PEAK NOT FOUND

NOTES:
UL INJECTION
1.5% SP2250 / 1.95% SP2401

varian /sunnyvale,calif.p/n 03-906362-00

ATTEN: 32 ZERO: 10% 5 MIN/TICK



GC#6, SP-5, 2ul inj

TITLE: RUN# 6 08-27 22:46 7 NOV 85

CHANNEL NO: 1 SAMPLE: 15091753 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3583	0.01	BB	?	3.20
2		0.0000	0.722		1082490	0.09	BV		6.40
3		0.0000	1.270		1694	0.16	T	?	2.80
4		0.0000	1.708		11397	0.22	T		4.75
		0.0000	2.044		1586	0.26	T	?	2.90
		0.0000	2.201		1319	0.28	T	?	3.90
7		0.0000	2.522		1156	0.32	T	?	3.90
8		0.0000	2.694		1989	0.34	T	?	6.05
9		0.0000	2.963		5100	0.38	VV		7.65
10		0.0000	3.272		5570	0.41	VV		5.35
11		0.0000	3.527		5153	0.45	VV		3.85
12	A-BHC	0.0037	3.662	-0.038	16072	0.46	VV		4.00
13		0.0000	3.828		1417	0.49	VV	?	2.60
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	?	[illegible]

Run b
15091753
08-27

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3583	0.01	BB	?	3.20
2		0.0000	0.722		1082490	0.09	BV		6.40
3		0.0000	1.270		1694	0.16	T	?	2.80
4		0.0000	1.708		11397	0.22	T		4.75
		0.0000	2.044		1586	0.26	T	?	2.90
		0.0000	2.201		1319	0.28	T	?	3.90
		0.0000	2.522		1156	0.32	T	?	3.90
8		0.0000	2.694		1989	0.34	T	?	6.05
9		0.0000	2.963		5100	0.38	VV		7.65
10		0.0000	3.272		5570	0.41	VV		5.35
11		0.0000	3.527		5153	0.45	VV		3.85
12	A-BHC	0.0037	3.662	-0.038	16072	0.46	VV		4.00
13		0.0000	3.828		1417	0.49	VV	?	2.60
14		0.0000	3.941		9387	0.50	VV	?	2.50
15	B-BHC	0.0045	4.158	-0.192	6013	0.53	VV		4.00
16	G-BHC	0.0006	4.466	-0.044	2159	0.57	VV		4.40
17		0.0000	4.649		1694	0.59	VV	?	8.60
18		0.0000	4.771✓		27594	0.61	VV		6.50
19		0.0000	5.069✓		5166	0.64	VV		3.60
20	D-BHC	0.0042	5.316✓	0.116	13808	0.68	VV		3.70
21		0.0000	5.619		1778	0.71	VV		4.45
22		0.0000	5.888✓		13155	0.75	VV	?	3.90
23		0.0000	5.962✓		12979	0.76	VV	?	4.50
24		0.0000	6.179✓		60485	0.78	VV		5.10
25		0.0000	6.519✓		13020	0.83	VV		5.10
26	HEPT	0.0045	6.766✓	0.106	10344	0.86	VV		4.10
27		0.0000	6.939✓		3660	0.88	VV		4.50
28		0.0000	7.218✓		1433	0.92	VV		3.65
29		0.0000	7.411✓		14359	0.94	VV		3.95
30		0.0000	7.561✓		13113	0.96	VV		4.20
31		0.0000	7.656✓		9595	0.97	VV	?	5.20
32	ALDRIN	0.0016	7.879	0.049	5411	1.00	VV	?	11.75
33		0.0000	~~7.961~~✓		~~1494~~	1.01	VV	?	8.50
34		0.0000	8.152✓		11058	1.03	VV		4.20
35		0.0000	8.267✓		9404	1.05	VV	?	4.70
		0.0000	8.597✓		13856	1.09	VV		6.10
		0.0000	8.712		23571	1.11	VV		3.80
38	HEPT EP	0.0011	9.520	0.130	2967	1.21	VV		3.95
39		0.0000	9.680		4845	1.23	VV		4.60
40		0.0000	9.831		11174	1.25	VV		5.40
41		0.0000	10.095		2571	1.28	VV		4.70
42		0.0000	10.280		3854	1.30	VV		3.95
43		0.0000	10.474		3143	1.33	VV		4.10
44		0.0000	10.714		6934	1.36	VV	?	6.00
45	A ENDO	0.0017	10.806	0.036	4439	1.37	VV	?	5.15
46		0.0000	10.909		3096	1.38	VV	?	3.50
47		0.0000	11.006		3233	1.40	VV	?	3.85
48		0.0000	11.123		2204	1.41	VV		4.45
49		0.0000	11.669		1225	1.48	VV		4.10
50	DIELDRIN	0.0009	11.874	0.024	2302	1.51	VV		8.00
51	DDE	0.0006	12.068	-0.062	1546	1.53	VV		6.60
52		0.0000	12.294		6017	1.56	VV		4.25
53	B ENDO	0.0007	13.074	-0.066	1507	1.66	VV		6.60
54		0.0000	13.405		4208	1.70	VV		8.30
55	END ALD	0.0006	13.967	-0.043	1076	1.77	VB	?	4.35
56		0.0000	14.415		1778	1.83	BV	?	8.50
57	DDT	0.0018	15.437	-0.053	3046	1.96	BV		5.35
58		0.0000	15.626		7698	1.98	VB		5.45
59	SURROGATE	0.0037	19.699	-0.051	8331	2.50	BB		5.50
60		0.0000	21.793		1366	2.77	BB		6.00
61		0.0000	23.489		18846	2.98	BB	?	280.40
62		0.0000	28.561		6086	3.63	BV	?	37.75
63		0.0000	29.555		8343	3.75	VB	?	58.80
TOTALS:		0.0302		-0.088	1544900				

DETECTED PKS: 78 REJECTED PKS: 15

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 8.5 OFFSET: -179

[illegible]: [illegible] VIAL: 6 INJ: 1

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-30 15091754

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/18/85

Date Analyzed: 11/06/85

Conc/Dil Factor: 50

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 5.0
11104-28-2	Aroclor-1221	< 5.0
11141-16-5	Aroclor-1232	< 5.0
53469-21-9	Aroclor-1242	15
12672-29-6	Aroclor-1248	< 5.0
11097-69-1	Aroclor-1254	< 10.0
11096-82-5	Aroclor-1260	< 10.0

V_i = Volume of extract injected (ul)

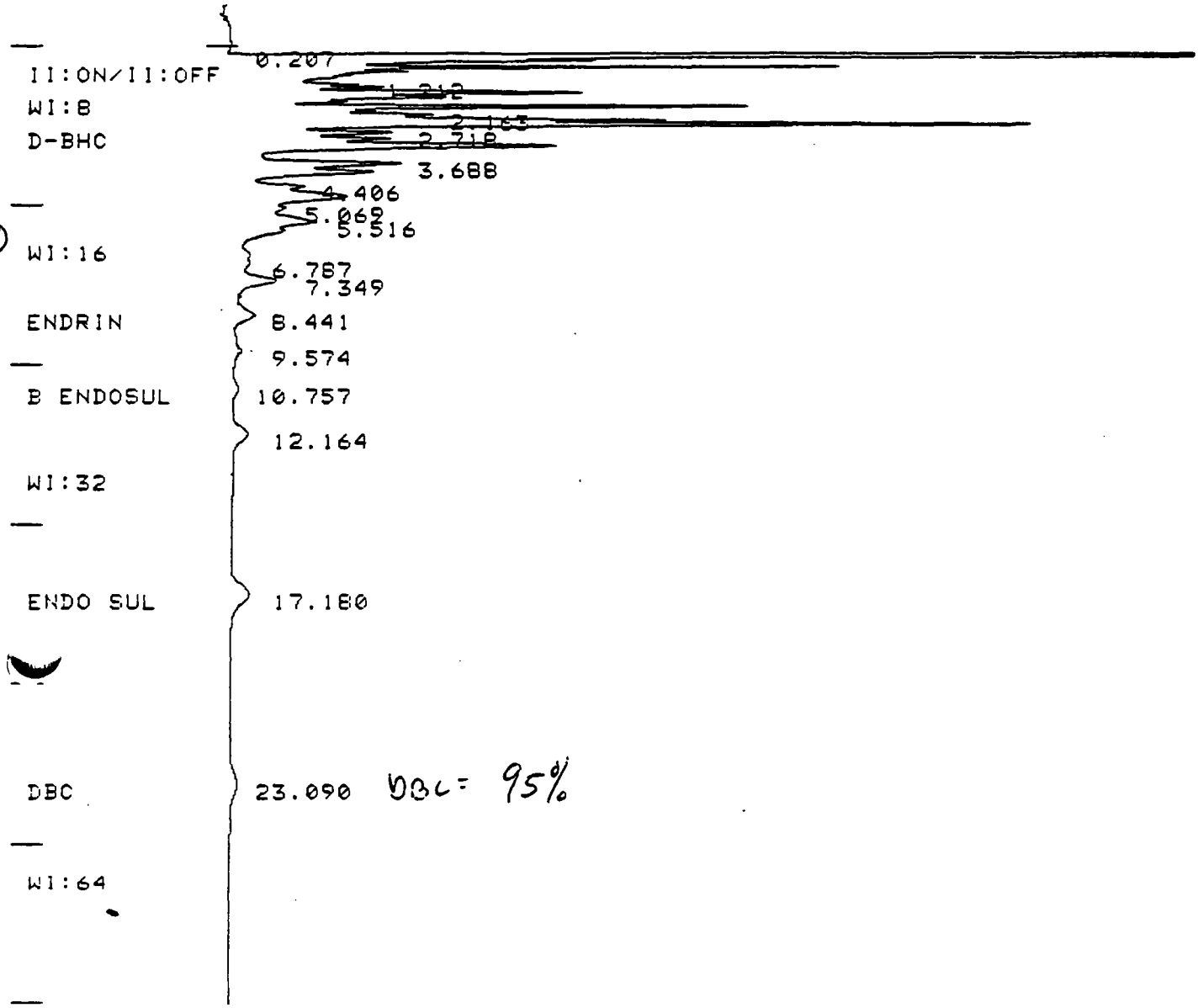
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

RT SPEED 0.5 CM/MIN
EN: 16 ZERO: 10% 5 MIN/TICK



1/50

TITLE: RUN # 12 08-30 17:33 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091754 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.300		106768	VB	4.75
2		0.0000	0.477		1580	BB	1.60
3		0.0000	0.677		7153	BV	2.55
4		0.0000	0.817		1017	VV	2.05
5		0.0000	0.903		344	VV	1.75
6		0.0000	0.990		384	VB	1.65
7		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]

varian /sunnyvale,calif.p/n 03-906362-00

1/50

.076 x 3.97 x 1 x 15/50 = .15

TITLE: RUN # 12 08-30 17:33 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091754 METHOD: 2A PP-1

87

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.300		106768	VB		4.75
2		0.0000	0.477		1580	BB		1.60
3		0.0000	0.677		7153	BV		2.55
4		0.0000	0.817		1017	VV		2.05
5		0.0000	0.903		344	VV		1.75
6		0.0000	0.990		284	VB		1.65
7		0.0000	1.212		858	BV		4.25
8		0.0000	1.307		1275	VV		4.15
9		0.0000	1.482		4261	VV	?	6.05
10	A-BHC	0.0017	1.617	-0.003	2247	VV	?	7.15
11		0.0000	1.737		824	VV	?	5.10
12		0.0000	1.907		6832	VV		4.60
13	G-BHC	0.0014	~~2.042~~	-0.008	~~1338~~	VV	?	3.50
14		0.0000	2.163		2212	VV	?	6.20
15	B-BHC	0.0169	2.347	-0.013	5729	VV	?	6.90
16		0.0000	2.477		11225	VV	?	3.70
17	D-BHC	0.0030	2.718	-0.022	1753	VV		6.90
19	ALDRIN	0.0027	2.908	-0.102	1787	VV	?	6.70
		0.0000	3.128	3.97	4306	VV		9.70
20		0.0000	3.688		2115	VV		9.90
21		0.0000	3.944		1717	VV		11.70
22		0.0000	4.406		744	VV	?	10.00
23		0.0000	4.706		1391	VV	?	18.75
24		0.0000	5.069		504	VV	?	9.90
25		0.0000	5.516		1013	VV	?	12.70
26	A ENDOSUL	0.0019	5.786	0.006	571	VB	?	16.75
27		0.0000	6.526		114	BV	?	13.50
28		0.0000	6.787		117	VV	?	19.15
29	DIELDRIN	0.0021	7.349	0.239	525	VB		16.35
30	ENDRIN	0.0015	8.441	-0.189	256	BB		20.10
31		0.0000	12.164		221	VB		30.60
32	ENDO SUL	0.0050	17.180	-0.100	277	BB		41.10
33	DBC	0.0019	23.090	0.040	121	BB		49.60
TOTALS:		0.0381		-0.152	171479			

DETECTED PKS: 37 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 36

RACK: 1 VIAL: 3 INJ: 1

SAVED FILE: P1186

NOTES:
UL INJECTION
.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale, calif. p/n 03-906362-00

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 12 08-30 17:33 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091754 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.300		106768	0.10	VB		4.75
2		0.0000	0.477		1580	0.16	BB		1.60
3		0.0000	0.677		7153	0.22	BV		2.55
4		0.0000	0.817		1017	0.27	VV		2.05
5		0.0000	0.903		344	0.30	VV		1.75
6		0.0000	0.990		284	0.33	VB		1.65
7		0.0000	1.212		858	0.40	BV		4.25
8		0.0000	1.367		1275	0.43	VV		4.15
9		0.0000	1.482		4261	0.49	VV	?	6.05
10		0.0000	1.617		2247	0.54	VV	?	7.15
11		0.0000	1.737		824	0.58	VV	?	5.10
12		0.0000	1.907		6832	0.63	VV		4.60
13		0.0000	2.042		1338	0.68	VV	?	3.50
14		0.0000	2.163		2212	0.72	VV	?	6.20
15		0.0000	2.347		5729	0.78	VV	?	6.90
16	HEPT	0.0165	2.477	-0.023	11225	0.82	VV	?	3.70
[illegible]		0.0000	2.718		1753	0.90	VV		6.90
[illegible]		0.0000	2.908		1787	0.97	VV	?	6.70
19		0.0000	3.128		4306	1.04	VV		9.70
20		0.0000	3.688		2115	1.23	VV		9.90
21		0.0000	3.944		1717	1.31	VV		11.70
22		0.0000	4.406		744	1.46	VV	?	10.00
23		0.0000	4.706		1391	1.56	VV	?	18.75
24		0.0000	5.069		504	1.68	VV	?	9.90
25		0.0000	5.516		1013	1.83	VV	?	12.70
26		0.0000	5.786		571	1.92	VB	?	16.75
27		0.0000	6.526		114	2.17	BV	?	13.50
28	DDE	0.0004	6.787	0.067	117	2.26	VV	?	19.15
29		0.0000	7.349		525	2.44	VB		16.35
30		0.0000	8.441		256	2.80	BB		20.10
31		0.0000	12.164		221	4.04	VB		30.60
32		0.0000	17.180		277	5.71	BB		41.10
33	DBC	0.0019	23.090	0.040	121	7.67	BB		49.60
TOTALS:		0.0188		0.084	171479				

DETECTED PKS: 37 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 36

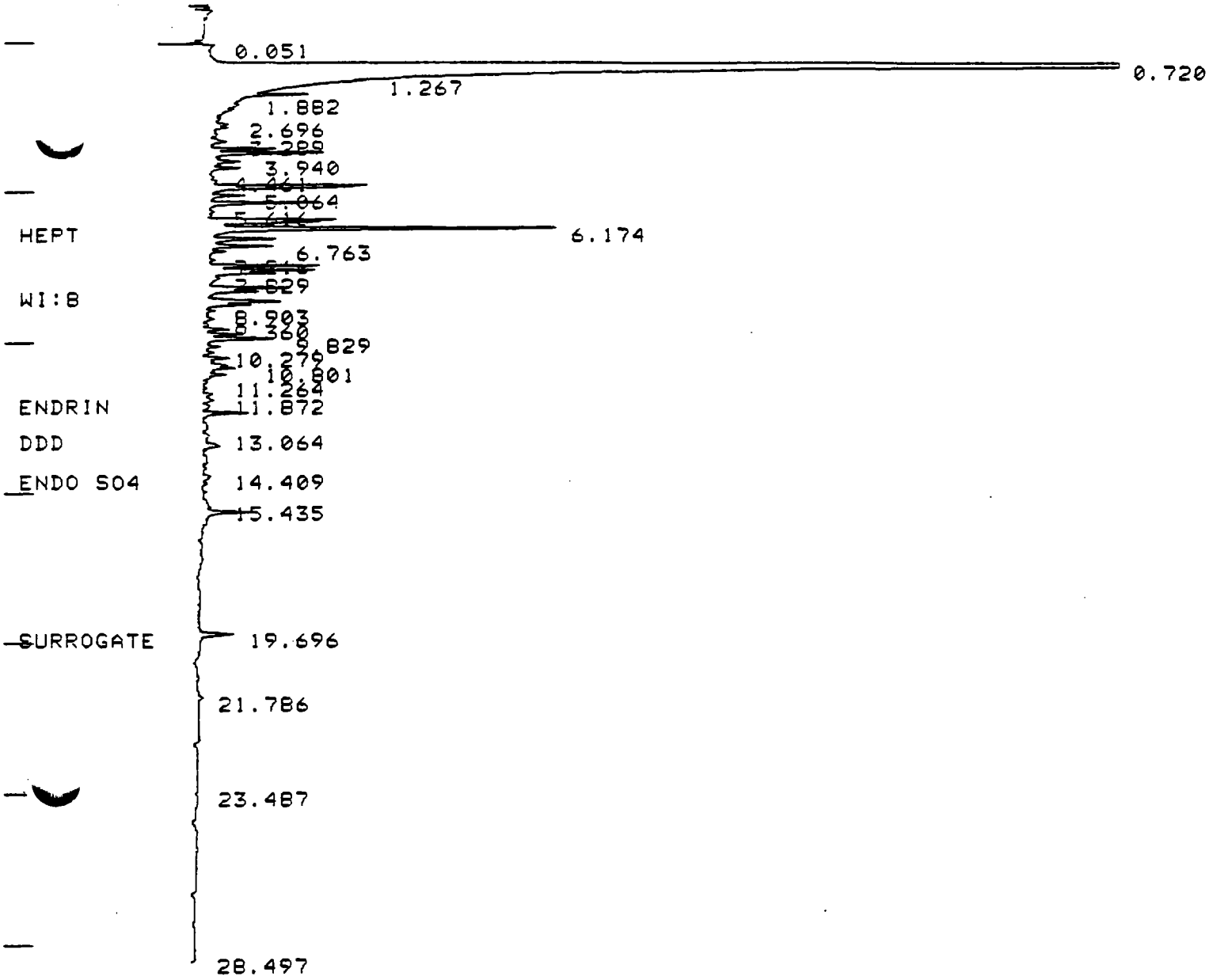
RACK: 1 VIAL: 3 INJ: 1

ERRORS:
TL RETEN PEAK NOT FOUND

NOTES:
4 UL INJECTION
1.5% SP2250 / 1.95% SP2401

varian /sunnyvale,calif.p/n 03 906

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



TITLE: RUN# 7 08-30 23:22 7 NOV 85

CHANNEL NO: 1 SAMPLE: 15091754 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.051		3205	0.01	BB	?	3.00
2		0.0000	0.720		1023330	0.09	BV		6.35
3		0.0000	1.267		1680	0.16	T	?	2.40
		0.0000	1.707		5703	0.22	T		5.05
		0.0000	2.047		1371	0.26	T	?	3.70
6		0.0000	2.696		1929	0.34	BV		4.65
7		0.0000	2.805		1478	0.36	VB		3.20
8		0.0000	3.289		3208	0.42	BV		5.20
9		0.0000	3.525		7874	0.45	VV		3.65
10	A-BHC	0.0037	3.658	-0.042	15955	0.47	VV		3.90
11		0.0000	3.940		5927	0.50	VV		4.65
12		0.0000	4.015		1150	0.51	VV	?	
13	[illegible]	[illegible]	[illegible]	[illegible]	4405	0.53	VB		3.85

Run #7
08-30
15091754

PEAK NO.	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.051		3205	0.01	BB	?	3.00
2		0.0000	0.720		1023330	0.09	BV		6.35
3		0.0000	1.267		1680	0.16	T	?	2.40
4		0.0000	1.707		5703	0.22	T		5.05
		0.0000	2.047		1371	0.26	T	?	3.70
		0.0000	2.696		1929	0.34	BV		4.65
		0.0000	2.805		1478	0.36	VB		3.20
8		0.0000	3.289		3208	0.42	BV		5.20
9		0.0000	3.525		7874	0.45	VV		3.65
10	A-BHC	0.0037	3.658	-0.042	15955	0.47	VV		3.90
11		0.0000	3.940		5927	0.50	VV		4.65
12		0.0000	4.015		1150	0.51	VV	?	
13	B-BHC	0.0033	4.156	-0.194	4405	0.53	VB		3.85
14	G-BHC	0.0044	4.763	0.253	17066	0.61	VV	?	3.30
15		0.0000	4.808		16777	0.61	VV	?	4.25
16		0.0000	5.064		5082	0.65	VV		3.50
17	D-BHC	0.0045	5.315	0.115	14991	0.68	VV		3.40
18		0.0000	5.884		15155	0.75	VV	?	3.50
19		0.0000	5.957		14631	0.76	VV	?	4.50
20		0.0000	6.174		63935	0.79	VV		4.90
21		0.0000	6.516		12212	0.83	VV		4.85
22	HEPT	0.0043	6.763	0.103	9848	0.86	VV		3.90
23		0.0000	6.939		2953	0.89	VB		4.15
24		0.0000	7.405		14946	0.95	VV		4.05
25		0.0000	7.556		14106	0.96	VV		4.20
26		0.0000	7.654		9065	0.98	VV	?	5.50
27	ALDRIN	0.0004	7.829	-0.001	1254	1.00	VV	?	4.30
28		0.0000	8.149		10603	1.04	BV		3.95
29		0.0000	8.265		7709	1.06	VV	?	4.80
30		0.0000	8.596		13382	1.10	VV		5.30
31		0.0000	8.709		5941	1.11	VV	?	4.20
32		0.0000	8.903		1150	1.14	VV		3.30
33		0.0000	9.170		1608	1.17	VV		5.00
34	HEPT EP	0.0013	9.517	0.127	3317	1.22	VV		3.85
[illegible]		0.0000	9.679		5466	1.24	VV		4.40
		0.0000	9.829		12198	1.25	VV		5.10
[illegible]		0.0000	10.090		2441	1.29	VV		4.20
38		0.0000	10.279		1513	1.31	VV		4.35
39		0.0000	10.468		3728	1.34	VV		4.10
40		0.0000	10.575		1175	1.35	VV	?	2.60
41		0.0000	10.702		4362	1.37	VV	?	6.50
42	A ENDO	0.0017	10.801	0.031	4622	1.38	VV	?	2.75
43		0.0000	10.909		1076	1.39	VV	?	1.90
44		0.0000	11.005		3497	1.41	VV	?	2.40
45		0.0000	11.663		1256	1.49	VV		4.20
46	DIELDRIN	0.0008	11.872	0.022	2084	1.52	VV		4.95
47	DDE	0.0005	12.055	-0.075	1374	1.54	VV	?	9.80
48		0.0000	12.289		6282	1.57	VB		3.90
49	B ENDO	0.0006	13.064	-0.076	1266	1.67	BV		7.00
50		0.0000	13.403		4193	1.71	VB		8.40
51	END ALD	0.0006	14.409	0.399	1208	1.84	BV	?	4.00
52	DDT	0.0007	15.435	-0.055	1151	1.97	BV		4.45
53		0.0000	15.621		9127	1.99	VB		4.70
54	SURROGATE	0.0031	19.696	-0.054	7121	2.52	BB		5.60
55		0.0000	21.786		1154	2.78	BB		5.35
56		0.0000	23.487		9047	3.00	BB	?	
57		0.0000	28.497		15073	3.64	BB	?	118.50
TOTALS:		0.0299		0.553	1433360				

DETECTED PKS: 74 REJECTED PKS: 17

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NC[illegible]: 8.5 OFFSET: -188

RACK: 1 VIAL: 7 INJ: 1

SAVED FILE: P752

NOTES:

G[illegible]: 5FE-5

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-31 15091755

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/18/85

Date Analyzed: 11/06/85

Conc/Dil Factor: 25

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.5
11104-28-2	Aroclor-1221	< 2.5
11141-16-5	Aroclor-1232	< 2.5
53469-21-9	Aroclor-1242	< 2.5
12672-29-6	Aroclor-1248	< 2.5
11097-69-1	Aroclor-1254	< 5.0
11096-82-5	Aroclor-1260	< 5.0

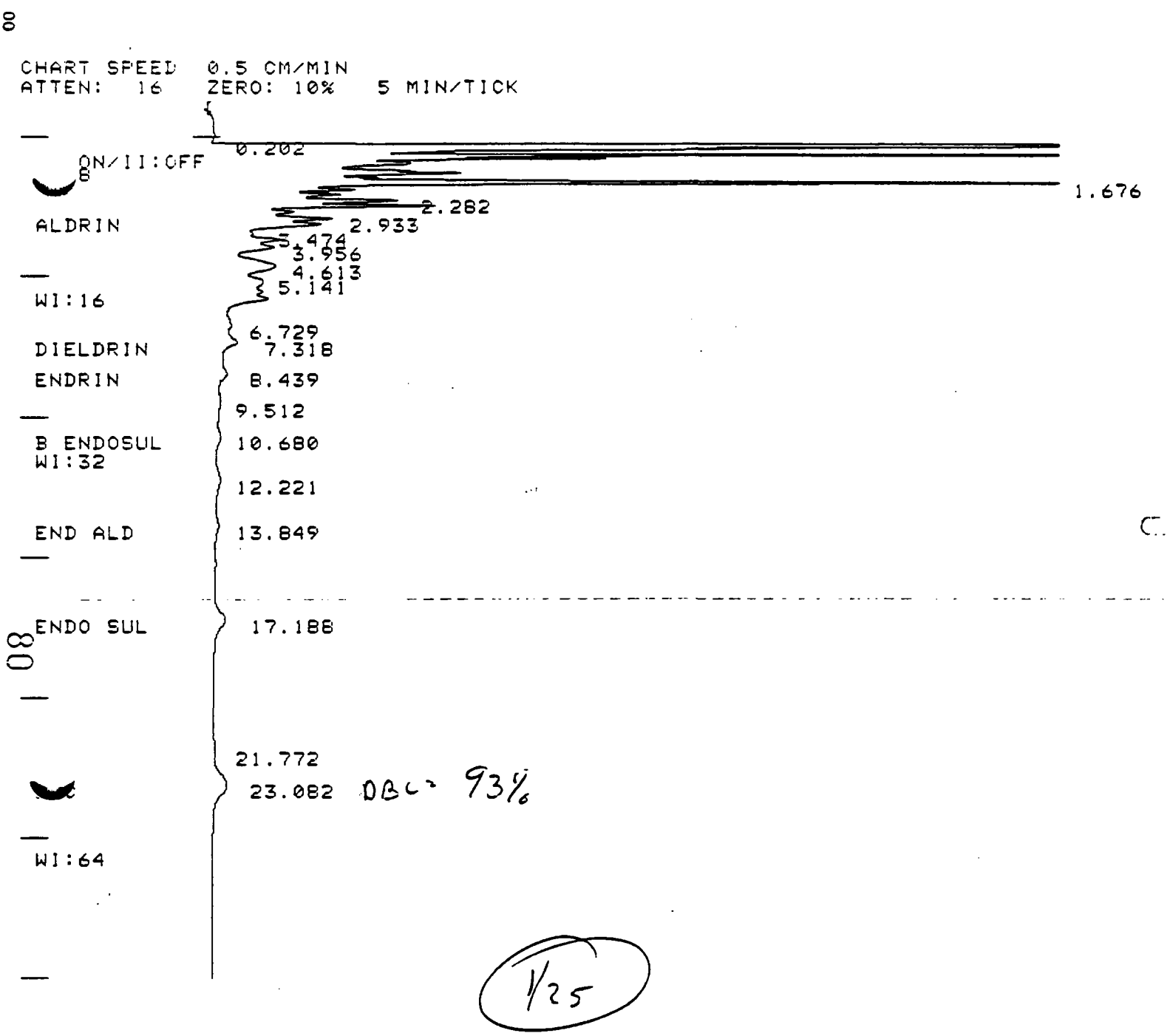
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4



TITLE: RUN # 13 08-31 18:07 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091755 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		103044	VB		4.75
2		0.0000	0.676		18218	BV		2.65
3		0.0000	0.812		3976	VV		2.70
[illegible]		0.0000	0.927		828	VV	?	4.00
5		0.0000	0.954		870	VB	?	6.25
6		0.0000	1.224		1245	BV	?	4.90
7		0.0000	1.307		2167	VV	?	5.85
8		0.0000	1.482		929	VV	?	3.40
9	A-B-C	0.0110	1.676	0.05[illegible]	14469	VV		4.45
10		0.0000	1.900		864	VV		3.45
11	G-E-[illegible]	0.0008	2.06[illegible]	[illegible]	771	VV		4.70
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

varian /sunnyvale,calif.p/n 03 9

1/25

.076 × 1.08 × 1 × 25 = 2.5

TITLE: RUN # 13 08-31 18:07 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091755 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		103044	VB		4.75
2		0.0000	0.676		18218	BV		2.65
3		0.0000	0.812		3976	VV		2.70
4		0.0000	0.927		828	VV	?	4.00
5		0.0000	0.954		870	VB	?	6.25
6		0.0000	1.224		1245	BV	?	4.90
7		0.0000	1.307		2167	VV	?	5.85
8		0.0000	1.482		929	VV	?	3.40
9	A-BHC	0.0110	1.676	0.056	14469	VV		4.45
10		0.0000	1.900		864	VV		3.45
11	G-BHC	0.0008	2.064	0.014	771	VV		4.70
12	B-BHC	0.0057	2.282	-0.078	1912	VV		7.70
13		0.0000	2.476		2669	VV		5.25
14	D-BHC	0.0007	2.691	-0.049	407	VV		6.25
15	ALDRIN	0.0018	2.933	-0.077	1180	VV		7.55
16		0.0000	3.132	1.08	1101	VV		9.10
		0.0000	3.686		598	VV		9.40
18		0.0000	3.956		547	VV		11.55
19		0.0000	4.613		658	VV	?	24.40
20		0.0000	5.141		494	VV	?	14.60
21		0.0000	5.532		524	VV	?	12.70
22	A ENDOSUL	0.0022	5.781	0.001	671	VV	?	11.95
23	DIELDRIN	0.0009	7.318	0.208	217	VB		19.20
24	ENDO SUL	0.0033	17.188	-0.092	182	BB		40.15
25	DBC	0.0037	23.082	0.032	236	VB		51.20
TOTALS:		0.0301		0.015	158777			

DETECTED PKS: 34 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 36

RACK: 1 VIAL: 4 INJ: 1

SAVED FILE: P1187

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC =2

varian /sunnyvale,calif.p/n 03-906362-00

08-31

TITLE: RUN # 13 18:07 6 NOV 85

NOISE: 1.2 OFFSET: 36

RACK: 1 VIAL: 4 INJ: 1

SAVED FILE: P1187

NOTES:
UL INJECTION
5%SP2250/1.95%SP2401
#2

81

08-31

TITLE: RUN# 13 18:07 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091755 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		103044	0.10	VB		4.75
2		0.0000	0.676		18218	0.22	BV		2.65
3		0.0000	0.812		3976	0.27	VV		2.70
4		0.0000	0.927		828	0.31	VV	?	4.00
5		0.0000	0.954		870	0.32	VB	?	6.25
6		0.0000	1.224		1245	0.41	BV	?	4.90
7		0.0000	1.307		2167	0.43	VV	?	5.85
8		0.0000	1.482		929	0.49	VV	?	3.40
9		0.0000	1.676		14469	0.56	VV		4.45
10		0.0000	1.900		864	0.63	VV		3.45
11		0.0000	2.064		771	0.69	VV		4.70
12		0.0000	2.282		1912	0.76	VV		7.70
13	HEPT	0.0039	2.476	-0.024	2669	0.82	VV		5.25
14		0.0000	2.691		407	0.89	VV		6.25
15		0.0000	2.933		1180	0.97	VV		7.55
16		0.0000	3.132		1101	1.04	VV		9.10
17		0.0000	3.686		598	1.23	VV		9.40
18		0.0000	3.956		547	1.31	VV		11.55
19	HEPT EPOX	0.0017	4.613	0.023	658	1.53	VV	?	24.40
20		0.0000	5.141		494	1.71	VV	?	14.60
21		0.0000	5.532		524	1.84	VV	?	12.70
22		0.0000	5.781		671	1.92	VV	?	11.95
23		0.0000	7.318		217	2.43	VB		19.20
24		0.0000	17.188		182	5.71	BB		40.15
25	DBC	0.0037	23.082	0.032	236	7.67	VB		51.20
TOTALS:		0.0093		0.031	158777				

DETECTED PKS: 34 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 36

RACK: 1 VIAL: 4 INJ: 1

ERRORS:
REL RETEN PEAK NOT FOUND

NOTES:
UL INJECTION
5% SP2250 / 1.95% SP2401

varian /sunnyvale, calif. p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-32 15091756

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/18/85

Date Analyzed: 11/06/85

Conc/Dil Factor: 5

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	1.0
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

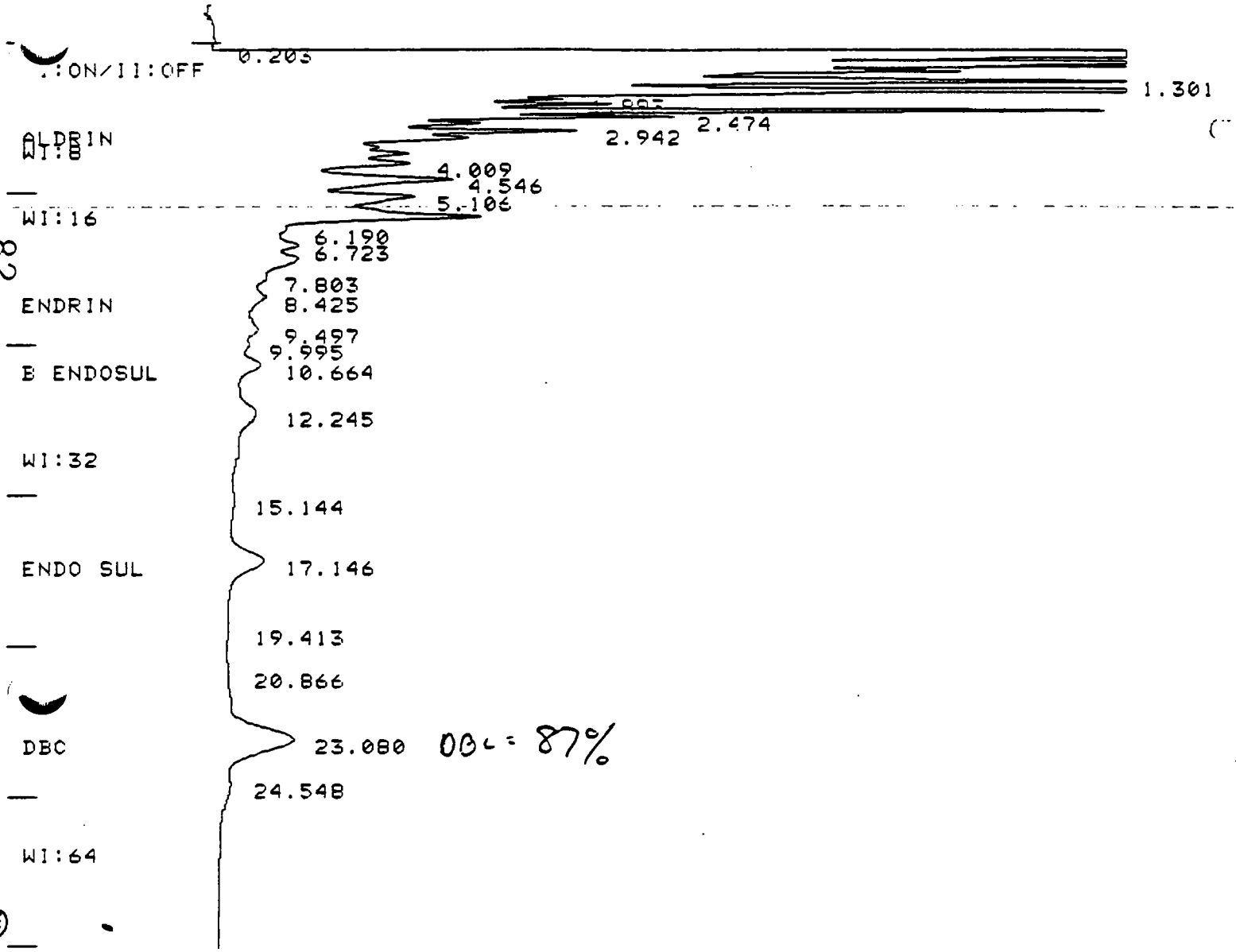
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



DBC = 87%

1/5

82

TITLE: RUN # 14 08-32 18:40 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091756 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
		0.0000	0.306		129665	VV	?	3.90
		0.0000	0.336		143191	VB	?	4.35
3		0.0000	0.477		11468	BV		2.20
4		0.0000	0.560		854	T		1.10
5		0.0000	0.677		57300	VV		2.70
6		0.0000	0.814		8512	VV		2.75
7		0.0000	0.905		2582	VV		2.40
8		0.0000	0.990		3464	VV		2.70
9		0.0000	1.035		147	T		0.65
10		0.0000	[illegible]		[illegible]	VV		[illegible]

varian /sunnyvale, calif. p/n 03-906362-00

1/5

.076 x 264 x 1 x 5 = 1.0

TITLE: RUN # 14 08-32 18:40 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091756 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.306		129665	VV	?	3.90
2		0.0000	0.336		143191	VB	?	4.35
3		0.0000	0.477		11468	BV		2.20
4		0.0000	0.560		854	T		1.10
5		0.0000	0.677		57300	VV		2.70
6		0.0000	0.814		8512	VV		2.75
7		0.0000	0.905		2582	VV		2.40
8		0.0000	0.990		3464	VV		2.70
9		0.0000	1.085		147	T		0.65
10		0.0000	1.301		8546	VV		5.95
11		0.0000	1.485		1590	VV	?	3.00
12	A-BHC	0.0127	1.614	-0.006	16610	VV	?	6.00
13		0.0000	1.893		796	T		2.90
14	G-BHC	0.0022	2.053	0.003	2006	VV		4.60
15	B-BHC	0.0300	2.269	-0.091	10127	VV		6.35
16		0.0000	2.474		3684	VV		4.85
17	D-BHC	0.0016	2.672	-0.068	949	VV		5.40
18	ALDRIN	0.0043	2.942	-0.068 2.64	2857	VV		6.85
19		0.0000	3.158		1410	VV	?	8.95
20		0.0000	3.473		346	VV		8.15
21		0.0000	3.680		946	VV		8.80
22		0.0000	4.009		1204	VV		9.65
23		0.0000	4.546		2159	VV		14.50
24		0.0000	5.106		1744	VV		20.15
25	A ENDOSUL	0.0098	5.784	0.004	2996	VV		13.50
26		0.0000	6.723		375	VV		14.10
27	DIELDRIN	0.0019	7.149	0.039	457	VV		20.10
28	ENDRIN	0.0010	8.425	-0.205	174	VB		17.50
29		0.0000	9.497		157	BV		18.45
30	B ENDOSUL	0.0020	10.664	0.064	299	VB		23.65
31		0.0000	12.245		270	BB	?	43.80
32	ENDO SUL	0.0098	17.146	-0.134	543	VB		40.45
33	DBC	0.0174	23.080	0.030	1100	VV		53.90
34		0.0000	24.548		131	VB	?	50.15
TOTALS:		0.0927		-0.432	418659			

DETECTED PKS: 41 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 35

RACK: 1 VIAL: 5 INJ: 1

SAVED FILE: P1188

NOTES:
4 UL INJECTION
.5%SP2250/1.95%SP2401
C =2

83

varian /sunnyvale,calif p/n 03-906362-00

4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 14 08-32 18:40 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091756 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.306		129665	0.10	VV	?	3.90
2		0.0000	0.336		143191	0.11	VB	?	4.35
3		0.0000	0.477		11468	0.16	BV		2.20
4		0.0000	0.560		854	0.19	T		1.10
5		0.0000	0.677		57300	0.22	VV		2.70
6		0.0000	0.814		8512	0.27	VV		2.75
7		0.0000	0.905		2582	0.30	VV		2.40
8		0.0000	0.990		3464	0.33	VV		2.70
9		0.0000	1.085		147	0.36	T		0.65
10		0.0000	1.301		8546	0.43	VV		5.95
11		0.0000	1.485		1590	0.49	VV	?	3.00
12		0.0000	1.614		16610	0.54	VV	?	6.00
13		0.0000	1.893		796	0.63	T		2.90
14		0.0000	2.053		2006	0.68	VV		4.60
15		0.0000	2.269		10127	0.75	VV		6.35
16	HEPT	0.0054	2.474	-0.026	3684	0.82	VV		4.85
17		0.0000	2.672		949	0.89	VV		5.40
[illegible]		0.0000	2.942		2857	0.98	VV		6.85
[illegible]		0.0000	3.158		1410	1.05	VV	?	8.95
20		0.0000	3.473		346	1.15	VV		8.15
21		0.0000	3.680		946	1.22	VV		8.80
22		0.0000	4.009		1204	1.33	VV		9.65
23	HEPT EPOX	0.0056	4.546	-0.044	2159	1.51	VV		14.50
24		0.0000	5.106		1744	1.70	VV		20.15
25		0.0000	5.784		2996	1.92	VV		13.50
26	DDE	0.0014	6.723	0.003	375	2.23	VV		14.10
27		0.0000	7.149		457	2.38	VV		20.10
28		0.0000	8.425		174	2.80	VB		17.50
29		0.0000	9.497		157	3.15	BV		18.45
30		0.0000	10.664		299	3.54	VB		23.65
31		0.0000	12.245		270	4.07	BB	?	43.80
32		0.0000	17.146		543	5.70	VB		40.45
33	DBC	0.0174	23.080	0.030	1100	7.67	VV		53.90
34	METHOXY	0.0057	24.548	-0.162	131	8.15	VB	?	50.15
TOTALS:		0.0355		-0.199	418659				

DETECTED PKS: 41 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

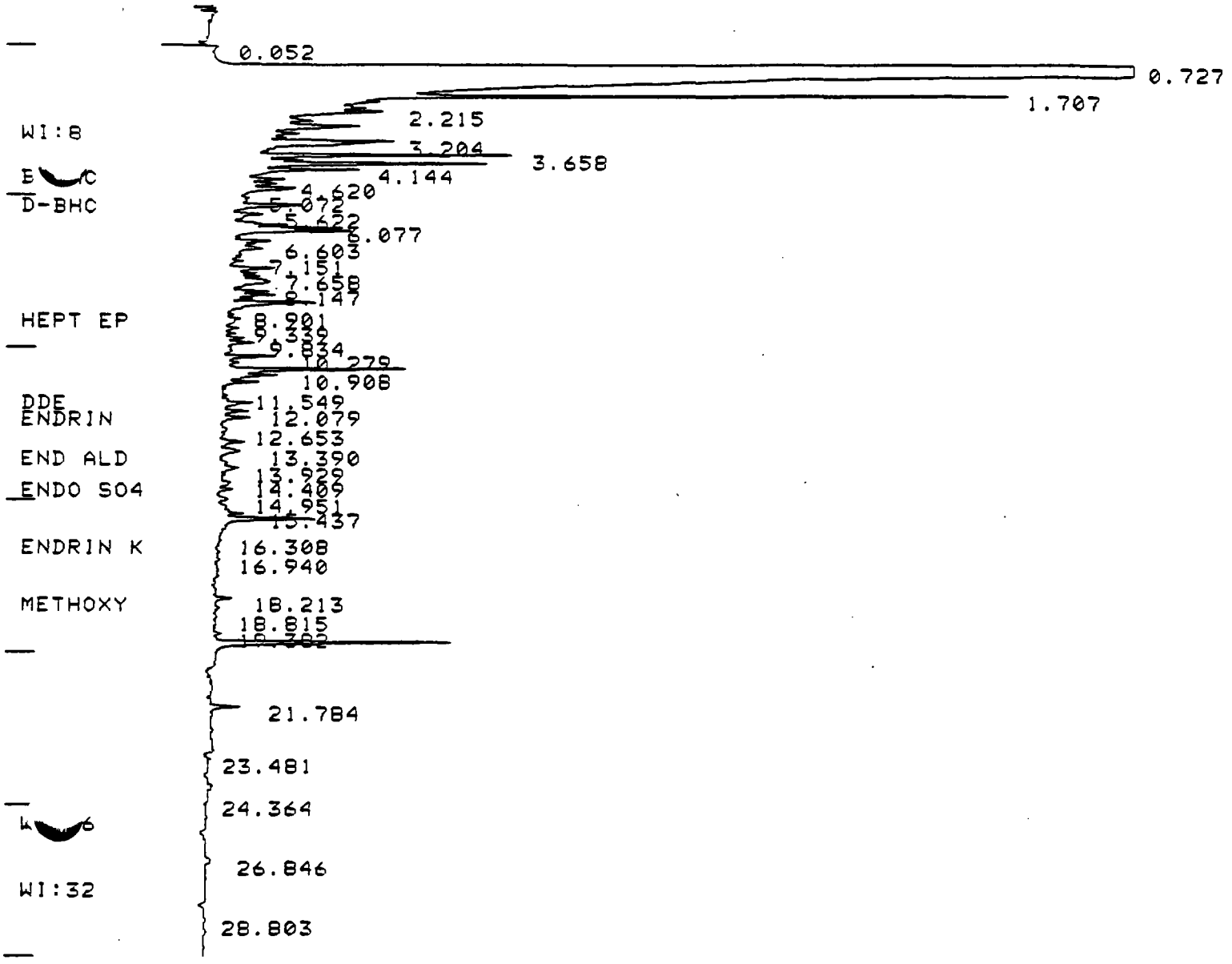
NOISE: 1.2 OFFSET: 35

RACK: 1 VIAL: 5 INJ: 1

ERRORS:
[illegible]FL RETEN PEAK NOT FOUND

NOTES:
4 UL INJECTION
1.5% SP2250 / 1.95% SP2401

ATTEN: 32 ZERO: 10% 5 MIN/TICK



08-32

TITLE: RUN# 8 23:58 7 NOV 85

CHANNEL NO: 1 SAMPLE: 15091756 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		2596	0.01	BB	?	3.10
2		0.0000	0.727		2173070	0.09	BV		7.40
3		0.0000	1.707		145675	0.22	VV		3.70
4		0.0000	1.899		36542	0.24	VV	?	2.70
5		0.0000	2.042		14747	0.26	VV	?	3.50
[illegible]		0.0000	2.103		25806	0.27	VV	?	4.35
[illegible]		0.0000	2.215		52918	0.28	VV	?	15.95
[illegible]		0.0000	2.519		27651	0.32	VV	?	7.10
9		0.0000	2.699		48385	0.34	VV	?	10.85
10		0.0000	2.956		20024	0.38	VV	?	8.30
11		0.0000	3.084		11957	0.39	VV	?	4.70
12		0.0000	3.204		58205	0.41	VV		11.25
13		0.0000	3.417		6569	0.44	VV	?	
14		0.0000	3.510		8137	0.45	VV	?	1.20
15	A-B-C	0.0112	3.658	-0.043	48739	0.47	VV	?	2.70

Run #8
08-32
15091356

NO	NAME	UG/ML	(MIN)	OFFSET	COUNTS		CODE		(SEC)
1		0.0000	0.052		2596	0.01	BB	?	3.10
2		0.0000	0.727		2173070	0.09	BV		7.40
3		0.0000	1.707		145675	0.22	VV		3.70
4		0.0000	1.899		36542	0.24	VV	?	2.70
5		0.0000	2.042		14747	0.26	VV	?	3.50
6		0.0000	2.103		25806	0.27	VV	?	4.35
		0.0000	2.215		52918	0.28	VV	?	15.95
		0.0000	2.519		27651	0.32	VV	?	7.10
		0.0000	2.699		48385	0.34	VV	?	10.85
10		0.0000	2.956		20024	0.38	VV	?	8.30
11		0.0000	3.084		11957	0.39	VV	?	4.70
12		0.0000	3.204		58205	0.41	VV		11.25
13		0.0000	3.417		6569	0.44	VV	?	
14		0.0000	3.510		8137	0.45	VV	?	1.20
15	A-BHC	0.0112	3.658	-0.042	48739	0.47	VV	?	2.70
16		0.0000	3.828		12116	0.49	VV	?	5.80
17		0.0000	3.941		52690	0.50	VV		4.95
18	B-BHC	0.0274	4.144	-0.206	36842	0.53	VV		5.55
19	G-BHC	0.0042	4.466	-0.044	16029	0.57	VV	?	10.20
20		0.0000	4.620		13811	0.59	VV	?	7.20
21		0.0000	4.766		26019	0.61	VV	?	7.65
22		0.0000	5.072		5325	0.65	VV	?	5.50
23		0.0000	5.146		3046	0.66	VV	?	2.40
24	D-BHC	0.0011	5.169	-0.031	3566	0.66	VV	?	
25		0.0000	5.327		22811	0.68	VV		7.10
26		0.0000	5.622		14889	0.72	VV		10.35
27		0.0000	5.898		5191	0.75	VV	?	7.20
28		0.0000	5.968		10168	0.76	VV	?	5.00
29		0.0000	6.077		15388	0.77	VV	?	4.80
30		0.0000	6.172		27077	0.79	VV	?	6.10
31		0.0000	6.381		2887	0.81	VV	?	1.80
32		0.0000	6.506		9969	0.83	VV	?	6.00
33	HEPT	0.0024	6.603	-0.057	5471	0.84	VV	?	3.60
34		0.0000	6.757		13214	0.86	VV	?	10.45
35		0.0000	6.938		4393	0.88	VV	?	3.80
36		0.0000	7.025		3034	0.90	VV	?	2.25
		0.0000	7.151		6323	0.91	VV	?	9.20
		0.0000	7.401		13005	0.94	VV		6.50
39		0.0000	7.556		6017	0.96	VV	?	5.10
40		0.0000	7.658		6998	0.98	VV	?	5.40
41	ALDRIN	0.0066	7.842	0.012	22841	1.00	VV	?	14.20
42		0.0000	8.147		9025	1.04	VV	?	5.20
43		0.0000	8.267		9884	1.05	VV		5.75
44		0.0000	8.387		5430	1.07	VV	?	5.40
45		0.0000	8.525		26688	1.09	VV		6.60
46		0.0000	8.901		3004	1.13	VV	?	4.20
47		0.0000	9.035		4361	1.15	VV	?	5.30
48		0.0000	9.106		3775	1.16	VV	?	7.95
49	HERT EP	0.0017	9.339	-0.051	4314	1.19	VV		6.75
50		0.0000	9.515		3175	1.21	VV		5.20
51		0.0000	9.671		5122	1.23	VV		5.60
52		0.0000	9.834		7723	1.25	VV		5.95
53		0.0000	10.005		2627	1.28	VV	?	5.50
54		0.0000	10.095		2872	1.29	VV	?	9.85
55		0.0000	10.279		10331	1.31	VV		4.40
56		0.0000	10.470		4414	1.34	VV	?	6.10
57	A ENDO	0.0129	10.716	-0.054	34235	1.37	VV	?	2.65
58		0.0000	10.908		12521	1.39	VV	?	5.85
59		0.0000	11.121		7684	1.42	VV		4.90
60		0.0000	11.549		3499	1.47	VV	?	5.95
61		0.0000	11.680		1438	1.49	VV	?	6.20
62	DIELDRIN	0.0030	11.797	-0.053	7759	1.50	VV		6.85
63	DDE	0.0023	12.079	-0.051	6128	1.54	VV		4.80
64		0.0000	12.289		7033	1.57	VV		4.55
65	ENDRIN	0.0015	12.653	-0.047	3183	1.61	VV	?	10.40
66		0.0000	12.825		1807	1.63	VV	?	3.90
67	B ENDO	0.0029	13.084	-0.056	6692	1.67	VV	?	3.30
		0.0000	13.390		7251	1.71	VV		8.95
69		0.0000	13.754		2483	1.75	VV	?	6.00
70	DDD	0.0032	13.929	0.029	6149	1.78	VV		8.30
71	END ALD	0.0025	14.409	0.399	4788	1.84	VV	?	5.30
72		0.0000	14.464		1368	1.84	VV	?	8.20
73		0.0000	14.633		2597	1.87	VV		4.10
74	ENDO SO4	0.0010	14.951	-0.085	1965	1.91	VV		7.60
75		0.0000	15.204		1122	1.94	VV	?	10.60
		0.0000	15.331		1049	1.96	VV	?	5.40

	13005	0.94	VV		6.50
	6017	0.96	VV	?	5.10
	6998	0.98	VV	?	5.40
0.012	22841	1.00	VV	?	14.20
	9025	1.04	VV	?	5.20
	9884	1.05	VV		5.75
	5430	1.07	VV	?	5.40
	26688	1.09	VV		6.60
	3004	1.13	VV	?	4.20
	4361	1.15	VV	?	5.30
	3775	1.16	VV	?	7.95
-0.051	4314	1.19	VV		6.75
	3175	1.21	VV		5.20
	5122	1.23	VV		5.60
	7723	1.25	VV		5.95
	2627	1.28	VV	?	5.50
	2872	1.29	VV	?	9.85
	10331	1.31	VV		4.40
	4414	1.34	VV	?	6.10
-0.054	34235	1.37	VV	?	2.65
	12521	1.39	VV	?	5.85
	7684	1.42	VV		4.90
	3499	1.47	VV	?	5.95
	1438	1.49	VV	?	6.20
-0.053	7759	1.50	VV		6.85
-0.051	6128	1.54	VV		4.80
	7033	1.57	VV		4.55
-0.047	3183	1.61	VV	?	10.40
	1807	1.63	VV	?	3.90
-0.056	6692	1.67	VV	?	3.30
	7251	1.71	VV		8.95
	2483	1.75	VV	?	6.00
0.029	6149	1.78	VV		8.30
0.399	4788	1.84	VV	?	5.30
	1368	1.84	VV	?	8.20
	2597	1.87	VV		4.10
-0.089	1965	1.91	VV		7.60
	1122	1.94	VV	?	10.60
	1049	1.96	VV	?	5.40
-0.053	3123	1.97	VV		5.05
	15903	1.99	VB		4.90
	1070	2.13	BV		6.50
0.050	1191	2.16	VB	?	6.35
-0.067	3401	2.32	BV		5.00
	1657	2.36	VV		5.45
	1169	2.47	BV		4.35
-0.058	39500	2.51	VB		4.55
	5068	2.78	BB		5.00
	2583	3.11	BB	?	67.40
	7090	3.42	BB	?	26.50
	4470	3.67	BV	?	50.50
	1664	3.72	VB	?	14.40
-0.469	3351530				

: 3

0000

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-33 15091757

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/18/85

Date Analyzed: 11/06/85

Conc/Dil Factor: 2

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.2
11104-28-2	Aroclor-1221	< 0.2
11141-16-5	Aroclor-1232	< 0.2
53469-21-9	Aroclor-1242	< 0.2
12672-29-6	Aroclor-1248	< 0.2
11097-69-1	Aroclor-1254	< 0.4
11096-82-5	Aroclor-1260	< 0.4

V_i = Volume of extract injected (ul)

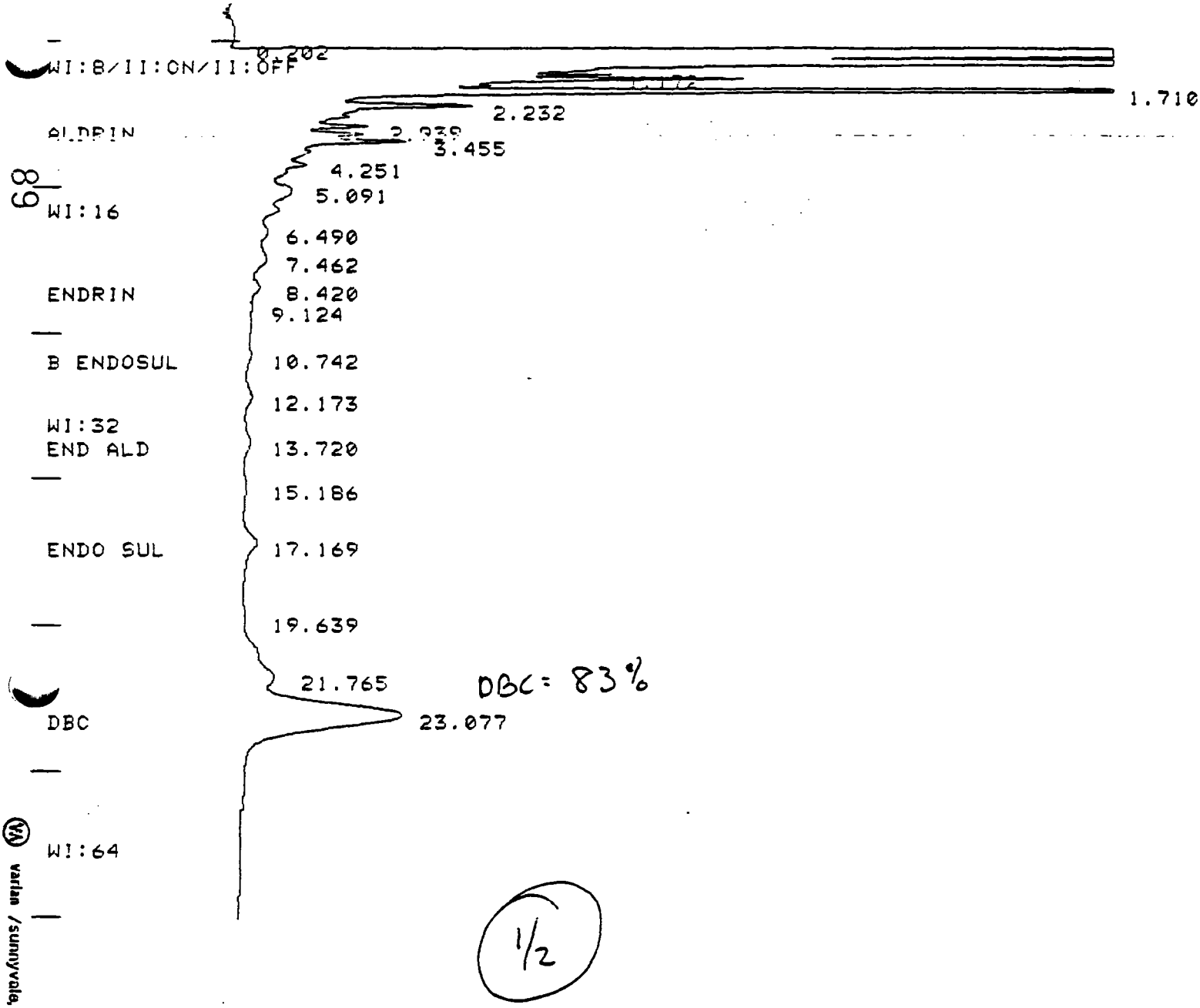
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/2

TITLE: RUN # 17 08-33 20:20 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091757 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.345		187162	VB	? 7.45
2		0.0000	0.478		74656	BV	2.40
3		0.0000	0.677		95224	VV	2.90
4		0.0000	0.815		15915	VV	2.85
5		0.0000	0.982		175	T	1.10
6		0.0000	1.172		1361	VV	2.85
7		0.0000	1.299		3831	VB	4.35
8		0.0000	1.530		362	BV	2.15
9		0.0000	1.710		36850	VB	4.50
10		0.0000	2.232		2151	BV	[illegible]

varian /sunnyvale, calif. p/n 03-906362-00

1/2

2.2

.076 × 0.71 × 1 × 2 = .11

TITLE: RUN # 17 08-33 20:20 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091757 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.345		187162	VB	?	7.45
2		0.0000	0.478		74656	BV		2.40
3		0.0000	0.677		95224	VV		2.90
4		0.0000	0.815		15915	VV		2.85
5		0.0000	0.982		178	T		1.10
6		0.0000	1.172		1361	VV		2.85
7		0.0000	1.299		3831	VB		4.35
8		0.0000	1.530		362	BV		2.15
9		0.0000	1.710		36850	VB		4.50
10		0.0000	2.232		2152	BV		8.10
11	B-BHC	0.0011	2.399	0.039	362	VV	?	6.20
12		0.0000	2.599		317	VB		3.70
13	ALDRIN	0.0013	2.939	-0.071	838	BV		6.45
14		0.0000	3.214		892	VV		8.80
15		0.0000	3.455	0.71	1678	VV		7.95
16		0.0000	3.800		251	VV		6.50
17		0.0000	4.251		359	VV		8.15
18		0.0000	4.516		116	VB		4.70
19		0.0000	5.091		318	BV	?	13.40
[illegible]		0.0000	5.118		318	VV	?	33.80
[illegible]	A ENDOSUL	0.0007	5.789	0.009	223	VB		10.50
22	DIELDRIN	0.0006	7.462	0.352	151	VV	?	26.00
23		0.0000	12.173		107	BB	?	31.75
24	END ALD	0.0016	13.720	-0.390	107	BB		32.00
25	ENDO SUL	0.0040	17.169	-0.111	219	VV		42.45
26		0.0000	21.765		509	VV	?	59.90
27	DBC	0.0414	23.077	0.027	2611	VB		56.20
TOTALS:		0.0507		-0.145	427067			

DETECTED PKS: 34 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 41

RACK: 1 VIAL: 8 INJ: 1

SAVED FILE: P1191

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 17 08-33 20:20 6 NOV 85

CHANNEL NO: 3 SAMPLE: 15091757 METHOD: 2A PP-1

NOISE: 1.2 OFFSET: 41

RACK: 1 VIAL: 8 INJ: 1

SAVED FILE: P1191

NOTES:
4 UL INJECTION
5%SP2250/1.95%SP2401
#2

TITLE: RUN# 17 08-33 20:20 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091757 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.345		187162	0.11	VB	?	7.45
2		0.0000	0.478		74656	0.16	BV		2.40
3		0.0000	0.677		95224	0.22	VV		2.90
4		0.0000	0.815		15915	0.27	VV		2.85
5		0.0000	0.982		178	0.33	T		1.10
6		0.0000	1.172		1361	0.39	VV		2.85
7		0.0000	1.299		3831	0.43	VB		4.35
8		0.0000	1.530		362	0.51	BV		2.15
9		0.0000	1.710		36850	0.57	VB		4.50
10		0.0000	2.232		2152	0.74	BV		8.10
11		0.0000	2.399		362	0.80	VV	?	6.20
[illegible]		0.0000	2.599		317	0.86	VB		3.70
[illegible]		0.0000	2.939		838	0.98	BV		6.45
14		0.0000	3.214		892	1.07	VV		8.80
15		0.0000	3.455		1678	1.15	VV		7.95
16		0.0000	3.800		251	1.26	VV		6.50
17		0.0000	4.251		359	1.41	VV		8.15
18	HEPT EPOX	0.0003	4.516	-0.074	116	1.50	VB		4.70
19		0.0000	5.091		318	1.69	BV	?	13.40
20		0.0000	5.118		318	1.70	VV	?	33.80
21		0.0000	5.789		223	1.92	VB		10.50
22		0.0000	7.462		151	2.48	VV	?	26.00
23		0.0000	12.173		107	4.04	BB	?	31.75
24		0.0000	13.720		107	4.56	BB		32.00
25		0.0000	17.169		219	5.70	VV		42.45
26		0.0000	21.765		509	7.23	VV	?	59.90
27	DBC	0.0414	23.077	0.027	2611	7.67	VB		56.20
TOTALS:		0.0417		-0.047	427067				

DETECTED PKS: 34 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 41

RACK: 1 VIAL: 8 INJ: 1

ERRORS:
REL RETEN PEAK NOT FOUND

NOTES:
4 UL INJECTION
1.5% SP2250 / 1.95% SP2401

varian /sunnyvale calif p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-34 15091758

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/18/85

Date Analyzed: 11/06/85

Conc/Dil Factor: 20

CAS Number		ug /PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.0
11104-28-2	Aroclor-1221	< 2.0
11141-16-5	Aroclor-1232	< 2.0
53469-21-9	Aroclor-1242	4.5
12672-29-6	Aroclor-1248	< 2.0
11097-69-1	Aroclor-1254	< 4.0
11096-82-5	Aroclor-1260	< 4.0

V_i = Volume of extract injected (ul)

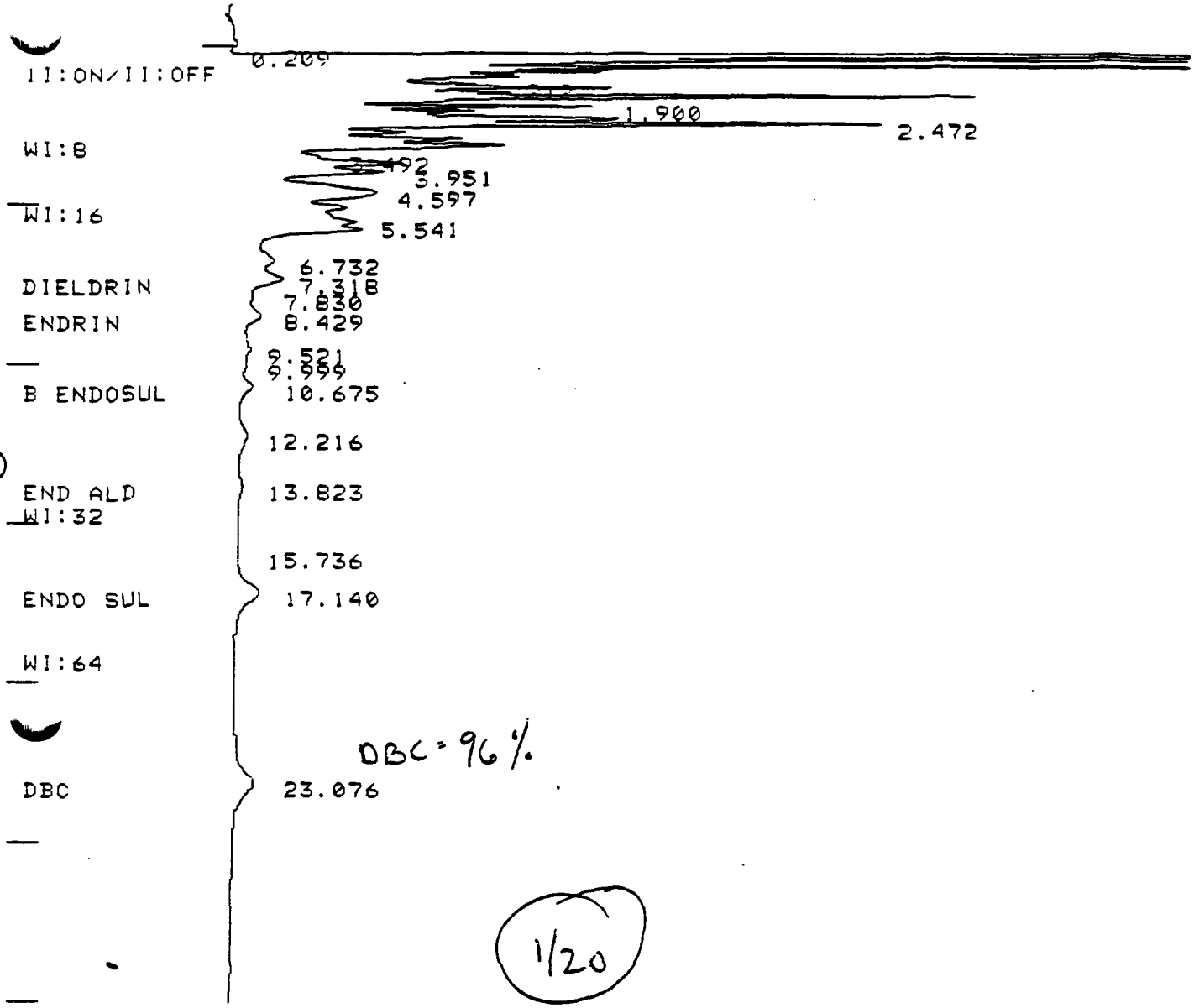
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



varian /sunnyvale, calif. p/n 03-906362-00

TITLE: RUN # 18 0834 20:53 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091758 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.301		110435	VB	4.85
2		0.0000	0.477		8337	BB	2.25
3		0.0000	0.674		14456	BV	2.45
4		0.0000	0.814		2197	VV	2.45
5		0.0000	0.907		1150	VV	2.65
6		0.0000	0.982		1413	VB	2.35
7		0.0000	1.212		1095	BV	4.10
8		0.0000	1.312		3234	VV	4.10
9		0.0000	1.478		[illegible]	[illegible]	[illegible]

.076 x 2.94 x 20 x 1 = 4.5

TITLE: RUN # 18 0834 20:53 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091758 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.301		110435	VB		4.85
2		0.0000	0.477		8337	BB		2.25
3		0.0000	0.674		14456	BV		2.45
4		0.0000	0.814		2197	VV		2.45
5		0.0000	0.907		1150	VV		2.65
6		0.0000	0.982		1413	VB		2.35
7		0.0000	1.212		1099	BV	?	4.10
8		0.0000	1.312		3234	VV		4.10
9		0.0000	1.479		1874	VV	?	5.90
10	A-BHC	0.0068	1.613	-0.007	8930	VV		5.70
11		0.0000	1.900		3438	VV		4.40
12	G-BHC	0.0019	2.054	0.004	1784	VV	?	4.90
13		0.0000	2.152		1227	VV	?	3.90
14	B-BHC	0.0121	2.294	-0.066	4075	VV	?	7.30
15		0.0000	2.472		8118	VV	?	3.45
16	D-BHC	0.0020	2.700	-0.040	1140	VV		6.10
17	ALDRIN	0.0032	2.918	-0.092	2123	VV		8.05
18		0.0000	3.124		2886	VV		9.15
19		0.0000	3.492		322	VV	?	7.20
20		0.0000	3.682		1592	VV		9.60
21		0.0000	3.951		1377	VV		12.15
22		0.0000	4.597		1436	VV	?	25.00
23		0.0000	5.092		1089	VV	?	14.50
24		0.0000	5.541		1288	VV	?	29.30
25	A ENDOSUL	0.0047	5.773	-0.007	1422	VB	?	15.60
26		0.0000	6.732		239	BV		20.40
27	DIELDRIN	0.0017	7.318	0.208	425	VV		18.25
28	ENDRIN	0.0011	8.429	-0.201	198	VB		18.55
29	B ENDOSUL	0.0010	10.675	0.075	151	VB		23.20
30		0.0000	12.216		137	BV	?	35.75
31	ENDO SUL	0.0065	17.140	-0.140	357	VB	?	54.10
32	DBC	0.0048	23.076	0.026	305	BB		52.80
TOTALS:		0.0458		-0.240	188254			

2.94

DETECTED PKS: 38 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 83

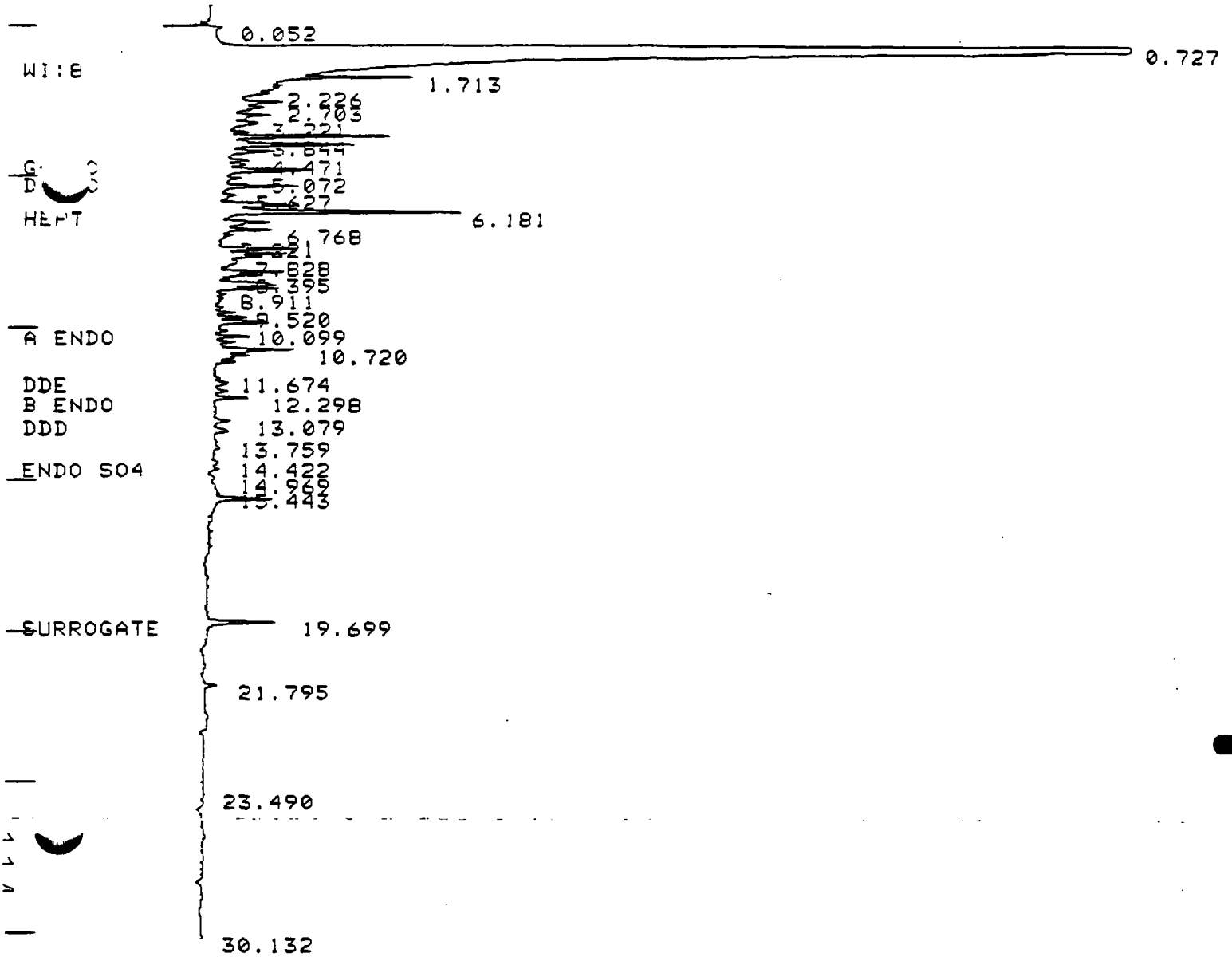
RACK: 1 VIAL: 9 INJ: 1

SAVED FILE: P1192

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

92

varian /sunnyvale,calif.p/n 03-906362-00



TITLE: RUN# 9 08-34 0:35 8 NOV 85

CHANNEL NO: 1 SAMPLE: 1509175B METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3928	0.01	BB	?	3.10
2		0.0000	0.727		941947	0.09	BV		6.40
3		0.0000	0.914		302676	0.12	VV	?	18.70
4		0.0000	1.261		111351	0.16	VV	?	15.65
5		0.0000	1.713		42732	0.22	VV		5.15
6		0.0000	1.880		7039	0.24	VV	?	
		0.0000	1.982		7651	0.25	VV	?	2.60
		0.0000	2.050		15543	0.26	VV	?	2.80
9		0.0000	2.226		15861	0.28	VV	?	15.30
10		0.0000	2.530		15914	0.32	VV		7.05
11		0.0000	2.703		9680	0.34	VV	?	6.80
12		0.0000	2.796		5453	0.36	VV	?	1.20
13		0.0000	2.966		10755	0.38	VV	?	4.20
14		0.0000	3.072		3537	0.39	VV	?	
15		0.0000	3.221		13482	0.41	VV		11.10
16		0.0000	3.425		1071	0.44	VV	?	

CHANNEL NO: 1 SAMPLE: 15091758 08-34 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3928	0.01	BB	?	3.10
2		0.0000	0.727		941947	0.09	BV		6.40
3		0.0000	0.914		302676	0.12	VV	?	18.70
		0.0000	1.261		111351	0.16	VV	?	15.65
		0.0000	1.713		42732	0.22	VV		5.15
		0.0000	1.880		7039	0.24	VV	?	
7		0.0000	1.982		7651	0.25	VV	?	2.60
8		0.0000	2.050		15543	0.26	VV	?	2.80
9		0.0000	2.226		15861	0.28	VV	?	15.30
10		0.0000	2.530		15914	0.32	VV		7.05
11		0.0000	2.703		9680	0.34	VV	?	6.80
12		0.0000	2.796		5453	0.36	VV	?	1.20
13		0.0000	2.966		10755	0.38	VV	?	4.20
14		0.0000	3.072		3537	0.39	VV	?	
15		0.0000	3.221		13482	0.41	VV		11.10
16		0.0000	3.425		1071	0.44	VV	?	
17		0.0000	3.531		4833	0.45	VV		5.15
18	A-BHC	0.0059	3.662	-0.038	25776	0.47	VV		4.00
19		0.0000	3.844		3924	0.49	VV	?	6.10
20		0.0000	3.945		25198	0.50	VV		4.80
21	B-BHC	0.0102	4.157	-0.193	13665	0.53	VV		5.60
22	G-BHC	0.0016	4.471	-0.039	6349	0.57	VV		5.45
23		0.0000	4.611		5584	0.59	VV		6.30
24		0.0000	4.771		22478	0.61	VV		6.55
25		0.0000	5.072		4747	0.65	VV		4.30
26	D-BHC	0.0004	5.171	-0.029	1193	0.66	VV	?	
27		0.0000	5.321		13102	0.68	VV		3.60
28		0.0000	5.627		3581	0.72	VV		4.85
29		0.0000	5.694		1586	0.73	VV	?	10.30
30		0.0000	5.892		8313	0.75	VV	?	3.70
31		0.0000	5.968		10302	0.76	VV	?	4.40
32		0.0000	6.181		51463	0.79	VV		5.05
33		0.0000	6.519		8870	0.83	VV		4.85
	HEPT	0.0017	6.604	-0.056	3964	0.84	VV	?	6.75
		0.0000	6.768		9450	0.86	VV		3.90
36		0.0000	6.944		2751	0.89	VV		4.45
37		0.0000	7.033		1570	0.90	VV	?	4.15
38		0.0000	7.221		1340	0.92	VV		2.55
39		0.0000	7.411		12493	0.95	VV		4.20
40		0.0000	7.564		10211	0.97	VV		4.35
41		0.0000	7.662		7757	0.98	VV	?	5.40
42	ALDRIN	0.0014	7.828	-0.002	4733	1.00	VV	?	8.20
43		0.0000	7.893		3546	1.01	VV	?	6.80
44		0.0000	7.973		1573	1.02	VV	?	7.50
45		0.0000	8.155		9900	1.04	VV		4.00
46		0.0000	8.270		7491	1.06	VV		4.85
47		0.0000	8.395		2132	1.07	VV	?	4.00
48		0.0000	8.547		6402	1.09	VV	?	5.60
49		0.0000	8.600		9067	1.10	VV	?	6.05
50		0.0000	8.714		8647	1.11	VV		3.60
51		0.0000	8.911		1497	1.14	VV		4.00
52		0.0000	9.041		1497	1.15	VV		4.00
53	HEPT EP	0.0005	9.351	-0.039	1311	1.20	VV		4.70
54		0.0000	9.520		2738	1.22	VV		3.75
55		0.0000	9.680		5048	1.24	VV		4.55
56		0.0000	9.834		10479	1.26	VV		5.30
57		0.0000	10.099		2195	1.29	VV		4.75
58		0.0000	10.287		5106	1.31	VV		4.05
59		0.0000	10.473		3358	1.34	VV		4.30
60		0.0000	10.720		13596	1.37	VV		4.35
61	A ENDO	0.0016	10.805	0.035	4164	1.38	VV	?	4.70
62		0.0000	10.913		5149	1.39	VV	?	4.75
63		0.0000	11.009		3036	1.41	VV	?	4.65
		0.0000	11.130		3746	1.42	VB		4.35
		0.0000	11.674		1041	1.49	BV		4.25
66		0.0000	11.804		1730	1.51	VV	?	3.90
67	DIELDRIN	0.0006	11.877	0.027	1663	1.52	VV	?	5.00
68	DDE	0.0009	12.087	-0.043	2533	1.54	VV		5.10
69		0.0000	12.298		5300	1.57	VB		4.05
70	B ENDO	0.0015	13.079	-0.061	3562	1.67	BV		5.75
71		0.0000	13.409		3954	1.71	VV		8.40
72	END ALD	0.0008	13.960	-0.050	1557	1.78	VB		7.95
73		0.0000	14.422		1218	1.84	BV	?	4.90

Run# 9
08-34
15091758

25		0.0000	5.072		4747	0.65	VV	4.30
26	D-BHC	0.0004	5.171	-0.029	1193	0.66	VV	?
27		0.0000	5.321		13102	0.68	VV	3.60
28		0.0000	5.627		3581	0.72	VV	4.85
29		0.0000	5.694		1586	0.73	VV	? 10.30
30		0.0000	5.892		8313	0.75	VV	? 3.70
31		0.0000	5.968		10302	0.76	VV	? 4.40
[illegible]		0.0000	6.181		51463	0.79	VV	5.05
[illegible]		0.0000	6.519		8870	0.83	VV	4.85
[illegible]	HEPT	0.0017	6.604	-0.056	3964	0.84	VV	? 6.75
35		0.0000	6.768		9450	0.86	VV	3.90
36		0.0000	6.944		2751	0.89	VV	4.45
37		0.0000	7.033		1570	0.90	VV	? 4.15
38		0.0000	7.221		1340	0.92	VV	2.55
39		0.0000	7.411		12493	0.95	VV	4.20
40		0.0000	7.564		10211	0.97	VV	4.35
41		0.0000	7.662		7757	0.98	VV	? 5.40
42	ALDRIN	0.0014	7.828	-0.002	4733	1.00	VV	? 8.20
43		0.0000	7.893		3546	1.01	VV	? 6.80
44		0.0000	7.973		1573	1.02	VV	? 7.50
45		0.0000	8.155		9900	1.04	VV	4.00
46		0.0000	8.270		7491	1.06	VV	4.85
47		0.0000	8.395		2132	1.07	VV	? 4.00
48		0.0000	8.547		6402	1.09	VV	? 5.60
49		0.0000	8.600		9067	1.10	VV	? 6.05
50		0.0000	8.714		8647	1.11	VV	3.60
51		0.0000	8.911		1497	1.14	VV	4.00
52		0.0000	9.041		1497	1.15	VV	4.00
53	HEPT EP	0.0005	9.351	-0.039	1311	1.20	VV	4.70
54		0.0000	9.520		2738	1.22	VV	3.75
55		0.0000	9.680		5048	1.24	VV	4.55
56		0.0000	9.834		10479	1.26	VV	5.30
57		0.0000	10.099		2195	1.29	VV	4.75
58		0.0000	10.287		5106	1.31	VV	4.05
59		0.0000	10.473		3358	1.34	VV	4.30
60		0.0000	10.720		13596	1.37	VV	4.35
61	A ENDO	0.0016	10.805	0.035	4164	1.38	VV	? 4.70
[illegible]		0.0000	10.913		5149	1.39	VV	? 4.75
[illegible]		0.0000	11.009		3036	1.41	VV	? 4.65
64		0.0000	11.130		3746	1.42	VB	4.35
65		0.0000	11.674		1041	1.49	BV	4.25
66		0.0000	11.804		1730	1.51	VV	? 3.90
67	DIELDRIN	0.0006	11.877	0.027	1663	1.52	VV	? 5.00
68	DDE	0.0009	12.087	-0.043	2533	1.54	VV	5.10
69		0.0000	12.298		5300	1.57	VB	4.05
70	B ENDO	0.0015	13.079	-0.061	3562	1.67	BV	5.75
71		0.0000	13.409		3954	1.71	VV	8.40
72	END ALD	0.0008	13.960	-0.050	1557	1.78	VB	7.95
73		0.0000	14.422		1218	1.84	BV	? 4.90
74	ENDO SO4	0.0007	14.642	-0.398	1531	1.87	VB	3.95
75		0.0000	15.334		1277	1.96	VV	? 3.30
76	DDT	0.0007	15.443	-0.047	1145	1.97	VV	? 4.40
77		0.0000	15.619		10712	1.99	VB	? 3.20
78	SURROGATE	0.0056	19.699	-0.051	12631	2.52	BB	4.95
79		0.0000	21.795		2366	2.78	BB	5.40
80		0.0000	23.490		9150	3.00	BB	?
81		0.0000	30.132		6220	3.85	BB	? 12.80
TOTALS:		0.0341		-0.984	1953120			

DETECTED PKS: 85 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 8.5 OFFSET: -181

RA' 1 VIAL: 9 INJ: 1

SAVED FILE: P754

NOTES:

GC=6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C 8°C/MIN

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-35 15091759

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/22/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 2

CAS Number		ug / PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.2
11104-28-2	Aroclor-1221	< 0.2
11141-16-5	Aroclor-1232	< 0.2
53469-21-9	Aroclor-1242	< 0.2
12672-29-6	Aroclor-1248	< 0.2
11097-69-1	Aroclor-1254	< 0.4
11096-82-5	Aroclor-1260	< 0.4

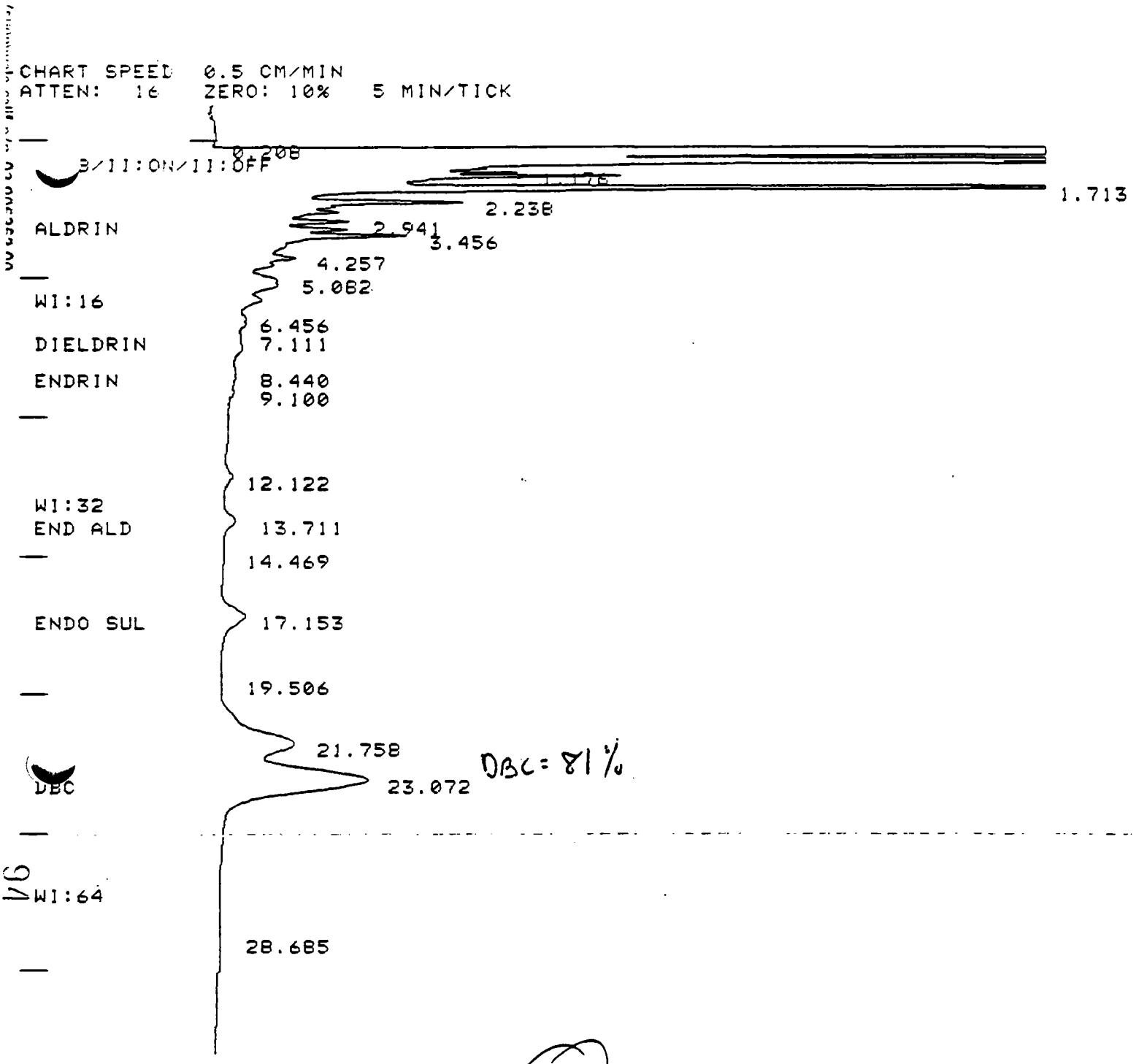
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4



1/2

TITLE: RUN = 19 08-35 21:26 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091759 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.342		185333	VB ?	6.25
2		0.0000	0.481		59567	BV	2.50
3		0.0000	0.680		90957	VV	2.80
4		0.0000	0.819		19137	VB	2.75
5		0.0000	1.176		1267	BV	3.10
6		0.0000	1.299		3197	VB	4.35
7		0.0000	1.713		42562	BB	4.50

.076 X 0.9 x 1 x 2 = 6.2

TITLE: RUN # 19 08-35 21:26 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091759 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.342		185333	VB	?	6.25
2		0.0000	0.481		59567	BV		2.50
3		0.0000	0.680		90957	VV		2.80
4		0.0000	0.819		19137	VB		2.75
5		0.0000	1.176		1267	BV		3.10
6		0.0000	1.299		3197	VB		4.35
7		0.0000	1.713		42562	BB		4.50
8		0.0000	2.238		2657	BV		8.10
9	B-BHC	0.0016	2.406	0.046	539	VV	?	7.00
10		0.0000	2.599		708	VV		5.70
11	ALDRIN	0.0015	2.941	-0.069	997	VV		6.85
12		0.0000	3.223		1069	VV		8.65
13		0.0000	3.456	0.9	2161	VV		8.05
14		0.0000	4.257		544	VV		8.55
15		0.0000	4.524		257	VB		5.50
16		0.0000	5.082		441	BV	?	13.90
17		0.0000	5.256		481	VV	?	23.80
18	A ENDOSUL	0.0009	5.781	0.001	274	VV		11.40
19		0.0000	7.508		125	VB		16.40
20		0.0000	12.122		121	BB	?	30.65
21	END ALD	0.0030	13.711	-0.399	200	BV		32.50
22	ENDO SUL	0.0074	17.153	-0.127	409	VB		41.35
23		0.0000	21.758		1276	VV	?	56.40
24	DBC	0.0404	23.072	0.022	2547	VB		57.35
TOTALS:		0.0548		-0.526	416826			

DETECTED PKS: 34 REJECTED PKS: 10

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 67

RACK: 1 VIAL: 10 INJ: 1

SAVED FILE: P1193

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 19 08-35 21:26 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091759 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.342		185333	0.11	VB	?	6.25
2		0.0000	0.481		59567	0.16	BV		2.50
3		0.0000	0.680		90957	0.23	VV		2.80
4		0.0000	0.819		19137	0.27	VB		2.75
5		0.0000	1.176		1267	0.39	BV		3.10

NOISE: 1.2 OFFSET: 67

RACK: 1 VIAL: 10 INJ: 1

SAVED FILE: P1193

NOTES:
UL INJECTION
5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 19 08-35 21:26 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091759 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.342		185333	0.11	VB	?	6.25
2		0.0000	0.481		59567	0.16	BV		2.50
3		0.0000	0.680		90957	0.23	VV		2.80
4		0.0000	0.819		19137	0.27	VB		2.75
5		0.0000	1.176		1267	0.39	BV		3.10
6		0.0000	1.299		3197	0.43	VB		4.35
7		0.0000	1.713		42562	0.57	BB		4.50
8		0.0000	2.238		2657	0.74	BV		8.10
9		0.0000	2.406		539	0.80	VV	?	7.00
10		0.0000	2.599		708	0.86	VV		5.70
		0.0000	2.941		997	0.98	VV		6.85
		0.0000	3.223		1069	1.07	VV		8.65
13		0.0000	3.456		2161	1.15	VV		8.05
14		0.0000	4.257		544	1.41	VV		8.55
15	HEPT EPOX	0.0007	4.524	-0.066	257	1.50	VB		5.50
16		0.0000	5.082		441	1.69	BV	?	13.90
17		0.0000	5.256		481	1.75	VV	?	23.80
18		0.0000	5.781		274	1.92	VV		11.40
19		0.0000	7.508		125	2.49	VB		16.40
20		0.0000	12.122		121	4.03	BB	?	30.65
21		0.0000	13.711		200	4.55	BV		32.30
22		0.0000	17.153		409	5.70	VB		41.35
23		0.0000	21.758		1276	7.23	VV	?	56.40
24	DBC	0.0404	23.072	0.022	2547	7.66	VB		57.35
TOTALS:		0.0411		-0.044	416826				

DETECTED PKS: 34 REJECTED PKS: 10

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 67

RACK: 1 VIAL: 10 INJ: 1

ERRORS:
REL RETEN PEAK NOT FOUND

NOTES:
UL INJECTION
5% SP2250 / 1.95% SP2401

varian /sunnyvale call n/n 03-906362 00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-36 15091760

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/22/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 100

CAS Number		ug / PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 10
11104-28-2	Aroclor-1221	< 10
11141-16-5	Aroclor-1232	< 10
53469-21-9	Aroclor-1242	30
12672-29-6	Aroclor-1248	< 10
11097-69-1	Aroclor-1254	< 20
11096-82-5	Aroclor-1260	< 20

V_i = Volume of extract injected (ul)

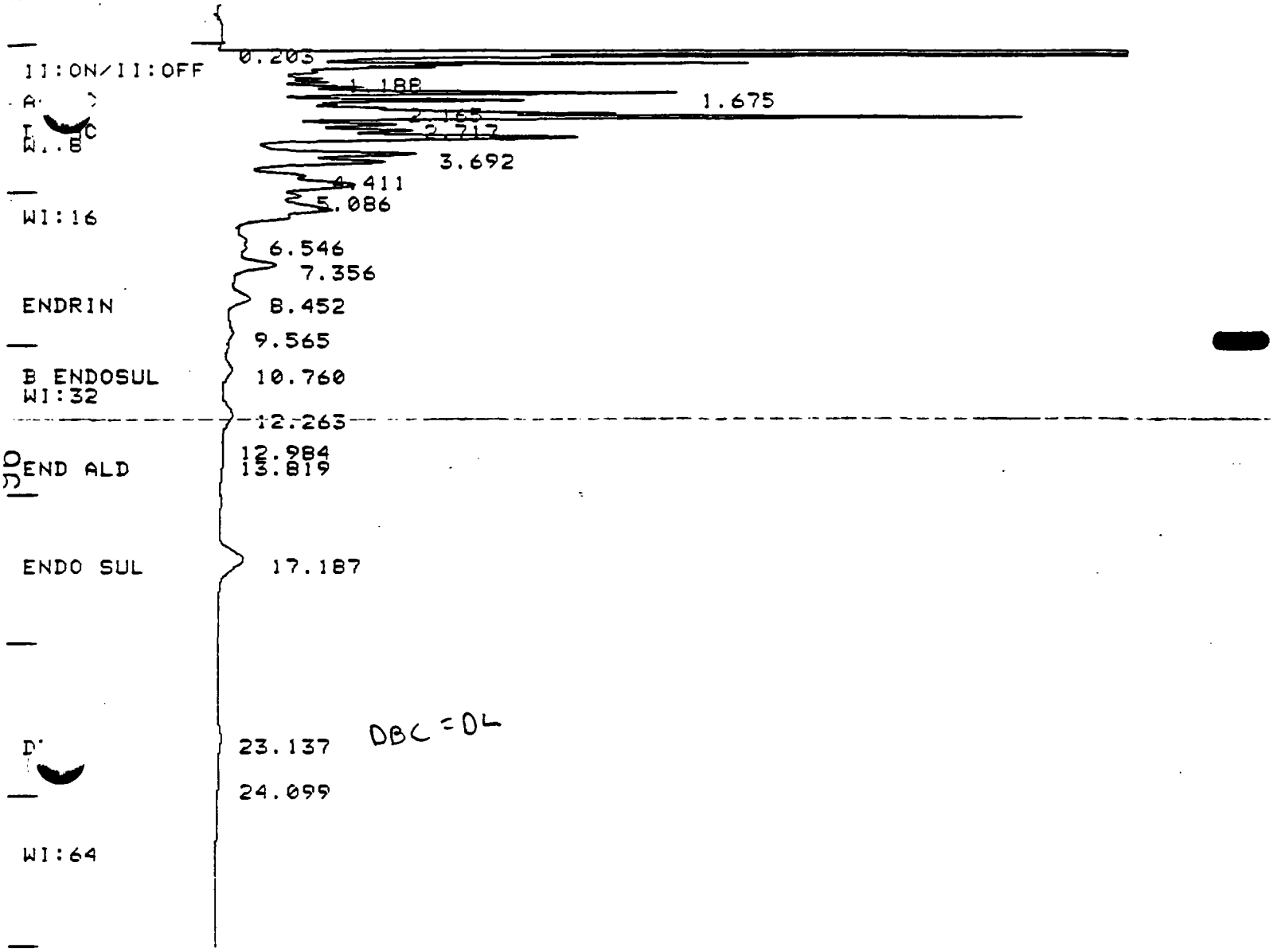
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/100

TITLE: RUN # 20 CB-36 22:02 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091760 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.299		88882	VB		4.45
2		0.0000	0.427		12262	BB		1.50
3		0.0000	0.677		6710	BV		2.55
4		0.0000	0.745		2300	VV	?	3.00
[illegible]		0.0000	0.812		1933	VV		2.65
[illegible]		0.0000	0.968		335	VB		2.60
7		0.0000	1.188		535	BV		3.85
8		0.0000	1.313		680	VV		3.65
9		0.0000	1.482		1244	VV		5.20
10	A-BHC	0.0047	1.675	0.055	6210	VV		4.75
11		0.0000	1.905		3870	VV		4.60
12	G-BHC	0.0010	2.041	-0.005	939	VV	?	4.90
13		0.0000	2.165		1762	VV	?	5.60
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	VV	?	7.40

.076 x 4.01 x 1 x 100 = 30

TITLE: RUN # 20 08-36 22:02 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091760 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.299		88882	VB		4.45
2		0.0000	0.427		12262	BB		1.50
3		0.0000	0.677		6710	BV		2.55
4		0.0000	0.745		2300	VV	?	3.00
5		0.0000	0.812		1933	VV		2.65
6		0.0000	0.968		335	VB		2.60
7		0.0000	1.188		535	BV		3.85
8		0.0000	1.313		680	VV		3.65
9		0.0000	1.482		1244	VV		5.20
10	A-BHC	0.0047	1.675	0.055	6210	VV		4.75
11		0.0000	1.905		3870	VV		4.60
12	G-BHC	0.0010	2.041	-0.009	938	VV	?	4.90
13		0.0000	2.165		1762	VV	?	5.60
14	B-BHC	0.0159	2.345	-0.015	5386	VV	?	7.40
15		0.0000	2.478		11829	VV	?	3.60
16	D-BHC	0.0034	2.717	-0.023	1994	VV		7.40
17	ALDRIN	0.0035	2.911	-0.099 4.01	2316	VV	?	7.10
18		0.0000	3.132		4947	VV		9.85
19		0.0000	3.692		2494	VV		9.90
20		0.0000	3.950		2028	VV		11.75
21		0.0000	4.411		850	VV	?	10.20
22		0.0000	4.710		1661	VV	?	20.15
23		0.0000	5.086		847	VV	?	12.80
24		0.0000	5.524		1406	VV	?	17.40
25	A ENDOSUL	0.0026	5.778	-0.002	780	VV	?	13.05
		0.0000	6.546		164	VV	?	15.20
		0.0000	6.781		162	VV	?	25.60
28	DIELDRIN	0.0027	7.356	0.246	658	VB		17.00
29	ENDRIN	0.0018	8.452	-0.178	310	BV		19.55
30		0.0000	9.565		103	VV		22.00
31	B ENDOSUL	0.0007	10.760	0.160	114	VB		24.20
32		0.0000	12.263		141	BV		32.00
33	ENDO SUL	0.0068	17.187	-0.093	377	BB		40.10
TOTALS:		0.0431		0.042	166228			

DETECTED PKS: 39 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 78

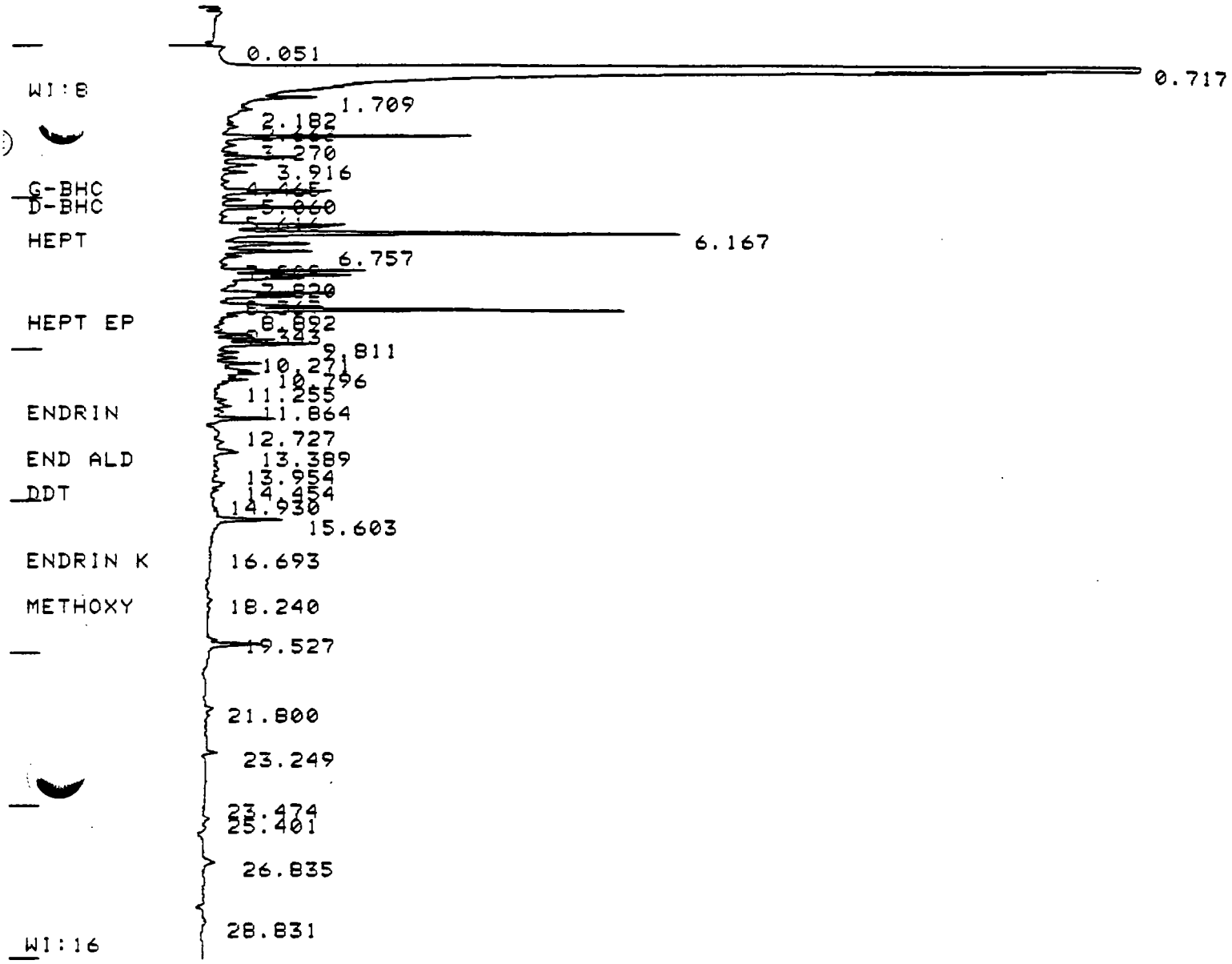
RACK: 1 VIAL: 11 INJ: 1

SAVED FILE: P1194

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 22:02 6 NOV 85

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



GC#6, SP.5, 2ul injected

TITLE: RUN# 12 08-36 2:24 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091760 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.051		3202	0.01	BB	?	3.00
2		0.0000	0.717		606391	0.09	BV		6.55
3		0.0000	0.882		263932	0.11	VV	?	9.25
4		0.0000	1.264		22767	0.16	VV	?	1.70
		0.0000	1.361		17134	0.17	VV	?	2.20
		0.0000	1.434		29186	0.18	VV	?	20.30
7		0.0000	1.709		24451	0.22	VV		5.65
8		0.0000	2.097		9693	0.27	VV	?	8.90
9		0.0000	2.182		4981	0.28	VV	?	9.55
10		0.0000	2.521		3288	0.32	VV	?	3.70
11		0.0000	2.663		3636	0.34	VV	?	4.30
12		0.0000	2.763		1209	0.35	VV	?	9.40
13		0.0000	2.981		33153	0.38	VV		3.45

Run #2
05-36
15091760

1		0.0000	0.051		3202	0.01	BB	?	3.00
2		0.0000	0.717		606391	0.09	BV		6.55
3		0.0000	0.882		263932	0.11	VV	?	9.25
4		0.0000	1.264		22767	0.16	VV	?	1.70
5		0.0000	1.361		17134	0.17	VV	?	2.20
6		0.0000	1.434		29186	0.18	VV	?	20.30
7		0.0000	1.709		24451	0.22	VV		5.65
		0.0000	2.097		9693	0.27	VV	?	8.90
		0.0000	2.182		4981	0.28	VV	?	9.55
		0.0000	2.521		3288	0.32	VV	?	3.70
11		0.0000	2.663		3636	0.34	VV	?	4.30
12		0.0000	2.763		1209	0.35	VV	?	9.40
13		0.0000	2.981		32153	0.38	VV		3.45
14		0.0000	3.270		3638	0.42	VV		5.20
15		0.0000	3.521		2447	0.45	VV		3.35
16	A-BHC	0.0025	3.655	-0.045	10819	0.47	VV		3.90
17		0.0000	3.916		7773	0.50	VV		4.90
18	B-BHC	0.0035	4.148	-0.202	4694	0.53	VV		4.10
19	G-BHC	0.0005	4.465	-0.045	1773	0.57	VV		4.40
20		0.0000	4.648		1085	0.59	VV	?	3.80
21		0.0000	4.762✓		23676	0.61	VV		6.30
22		0.0000	5.060✓		4068	0.65	VV		3.70
23	D-BHC	0.0046	5.311✓	0.111	15094	0.68	VV		3.50
24		0.0000	5.616		1324	0.72	VV		4.30
25		0.0000	5.878✓		15966	0.75	VV	?	3.80
26		0.0000	5.951✓		14257	0.76	VV	?	4.45
27		0.0000	6.167		80443	0.79	VV		4.60
28		0.0000	6.506✓		17727	0.83	VV		4.90
29	HEPT	0.0066	6.757✓	0.097	15049	0.86	VV		4.10
30		0.0000	6.930✓		4897	0.89	VV		4.50
31		0.0000	7.209✓		1792	0.92	VV		3.90
32		0.0000	7.398✓		20232	0.95	VV		3.90
33		0.0000	7.550✓		19263	0.96	VV		4.45
34		0.0000	7.647✓		13592	0.98	VV	?	5.25
35	ALDRIN	0.0017	7.820	-0.010	5961	1.00	VV	?	11.10
36		0.0000	7.949		1404	1.02	VV	?	8.70
37		0.0000	8.139✓		16223	1.04	VV		4.15
38		0.0000	8.253✓		12227	1.05	VV	?	5.30
		0.0000	8.587✓		19925	1.10	VV		5.55
40		0.0000	8.701		55517	1.11	VV		3.50
41		0.0000	8.892		1288	1.14	T		4.55
42	HEPT EP	0.0019	9.508	0.118	4915	1.22	VV		4.05
43		0.0000	9.666		8505	1.24	VV		4.30
44		0.0000	9.811		18068	1.25	VV		5.35
45		0.0000	10.084		4522	1.29	VV		4.45
46		0.0000	10.271		4081	1.31	VV		4.15
47		0.0000	10.459		7036	1.34	VV		3.95
48		0.0000	10.565		1973	1.35	VV	?	2.60
49		0.0000	10.698		7599	1.37	VV	?	6.90
50	A ENDO	0.0028	10.796	0.026	7403	1.38	VV	?	4.25
51		0.0000	10.899		3167	1.39	VV	?	2.70
52		0.0000	10.995		6066	1.41	VV	?	2.60
53		0.0000	11.110		3070	1.42	VV	?	4.30
54		0.0000	11.255		2235	1.44	VV	?	3.50
55		0.0000	11.443		2200	1.46	VV		3.55
56		0.0000	11.654		3869	1.49	VV		4.70
57	DIELDRIN	0.0024	11.864	0.014	6136	1.52	VV		7.25
58	DDE	0.0019	12.044	-0.086	5217	1.54	VV		7.40
59		0.0000	12.282		13299	1.57	VV		4.25
60	ENDRIN	0.0020	12.727	0.027	4200	1.63	VV	?	14.10
61		0.0000	12.809		2400	1.64	VV		2.35
62	B ENDO	0.0020	13.051	-0.089	4499	1.67	VV	?	10.60
63		0.0000	13.389		9485	1.71	VV		9.40
64		0.0000	13.739		1267	1.76	VV	?	5.20
65	DDD	0.0006	13.954	0.054	1149	1.78	VB		4.20
66	END ALD	0.0010	14.401	0.391	1885	1.84	BV•	?	4.30
67		0.0000	14.454		1313	1.85	VV	?	9.00
[illegible]	ENDO SO4	0.0005	14.630	-0.410	1114	1.87	VB		3.90
[illegible]	DDT	0.0078	15.604	0.114	13494	1.99	BB		4.75
[illegible]	METHOXY	0.0017	18.240	-0.040	1201	2.33	BV	?	3.55
71		0.0000	19.527		1634	2.50	BV		5.85
72	SURROGATE	0.0047	19.684	-0.000	10714	2.52	VB		5.75
73		0.0000	21.800		2210	2.79	BV		7.30
74		0.0000	23.249		2198	2.97	BB		4.65
75		0.0000	23.474		4832	3.00	BB	?	
76		0.0000	25.401		2285	3.25	BV	?	4.00
[illegible]		0.0000	25.690		2054	3.29	VB		5.20

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-37 15091761

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/22/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 100

CAS Number		ug / PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 10
11104-28-2	Aroclor-1221	< 10
11141-16-5	Aroclor-1232	< 10
53469-21-9	Aroclor-1242	30
12672-29-6	Aroclor-1248	< 10
11097-69-1	Aroclor-1254	< 20
11096-82-5	Aroclor-1260	< 20

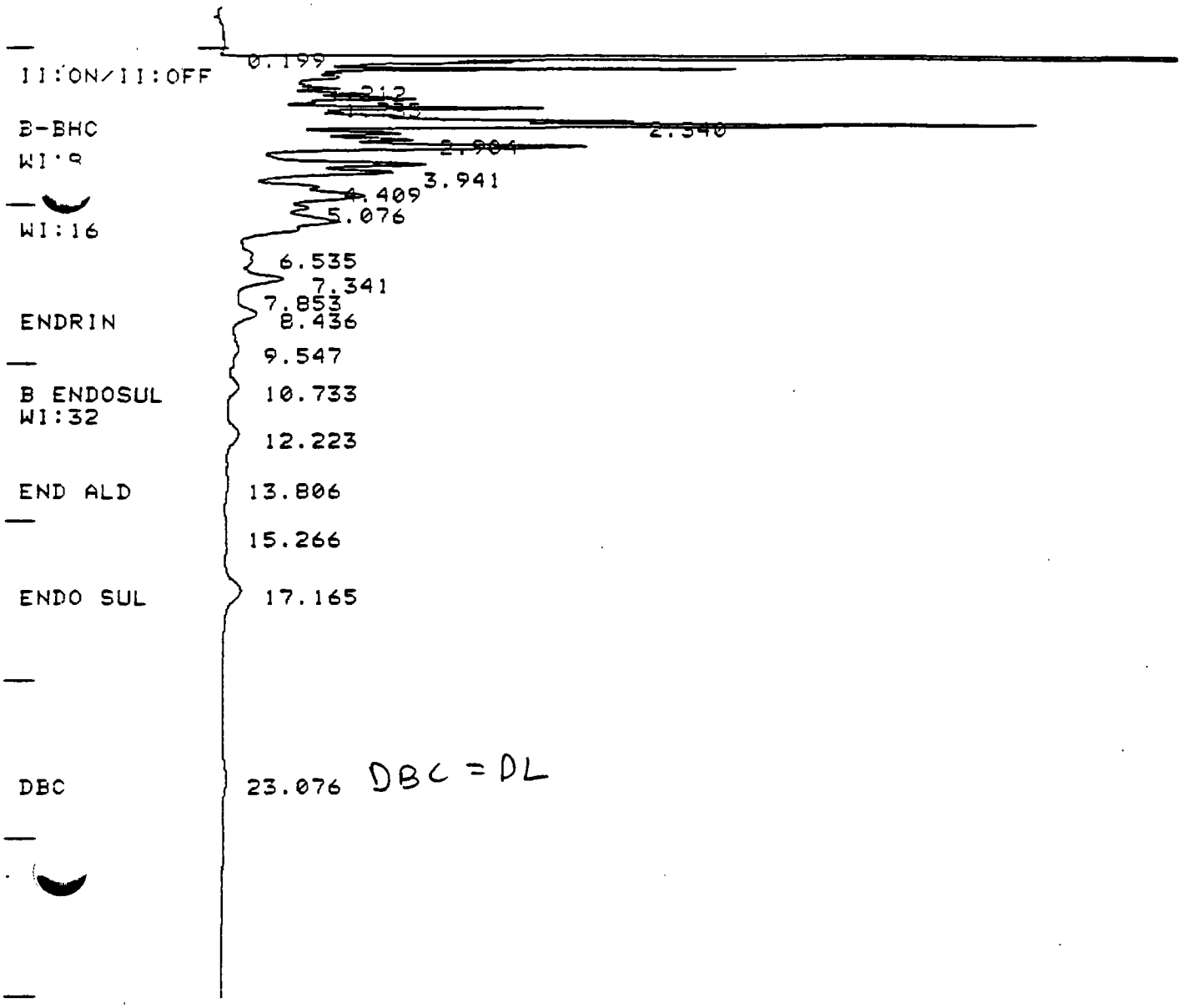
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4



1/100

TITLE: RUN # 21 08-37 22:36 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091761 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.298		90059	VB		4.35
2		0.0000	0.474		1276	BB		1.70
3		0.0000	0.675		6119	BV		2.55
4		0.0000	0.816		341	VV		2.10
5		0.0000	0.927		420	VB		5.75
6		0.0000	1.212		220	BV		3.15
7		0.0000	1.311		677	VV		3.60
8		0.0000	1.480		1134	VV		4.95
9	A-BHC	0.0014	1.618	-0.002	1878	VV		5.45
10		0.0000	1.735		398	VV	?	4.70
11		0.0000	1.902		3866	VV		4.65
12	G-BHC	0.0010	2.037	-0.013	903	VV	?	4.90
13		0.0000	2.160		1739	VV	?	5.70
14	B-BHC	0.0157	2.340	-0.020	5303	VV	?	7.60
15		0.0000	2.472		11403	VV	?	3.65
16	D-B-1	0.0033	2.714	-0.026	189[illegible]	VV		7.50

.076 x 3.97 x 1 x 100 = 30

TITLE: RUN # 21 08-37 22:36 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091761 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.298		90059	VB		4.35
2		0.0000	0.474		1276	BB		1.70
3		0.0000	0.675		6119	BV		2.55
4		0.0000	0.816		341	VV		2.10
5		0.0000	0.927		420	VB		5.75
6		0.0000	1.212		220	BV		3.15
7		0.0000	1.311		677	VV		3.60
8		0.0000	1.480		1134	VV		4.95
9	A-BHC	0.0014	1.618	-0.002	1878	VV		5.45
10		0.0000	1.735		398	VV	?	4.70
11		0.0000	1.902		3866	VV		4.65
12	G-BHC	0.0010	2.037	-0.013	903	VV	?	4.90
13		0.0000	2.160		1739	VV	?	5.70
14	B-BHC	0.0157	2.340	-0.020	5303	VV	?	7.60
15		0.0000	2.472		11403	VV	?	3.65
16	D-BHC	0.0033	2.714	-0.026	1896	VV		7.50
17	ALDRIN	0.0032	2.904	-0.106	2133	VV	?	7.30
18		0.0000	3.126		4753	VV		9.95
19		0.0000	3.686		2467	VV		9.95
20		0.0000	3.941		1998	VV		11.75
21		0.0000	4.409		943	VV	?	10.60
22		0.0000	4.698		1667	VV	?	20.45
23		0.0000	5.076		867	VV	?	13.20
24		0.0000	5.520		1403	VV	?	19.45
25	A ENDOSUL	0.0027	5.761	-0.019	821	VV	?	12.65
26		0.0000	6.535		177	VV	?	15.20
27		0.0000	6.762		181	VV	?	23.40
28	DIELDRIN	0.0027	7.341	0.231	678	VV		16.75
	ENDRIN	0.0019	8.436	-0.194	337	VV		20.05
		0.0000	9.547		103	VV		22.40
31	B ENDOSUL	0.0008	10.733	0.133	125	VB		24.50
32		0.0000	12.223		167	BV		31.85
33	ENDO SUL	0.0043	17.165	-0.115	238	VB		39.80
TOTALS:		0.0370		-0.131	146690			

3.97

DETECTED PKS: 38 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 49

RACK: 1 VIAL: 12 INJ: 1

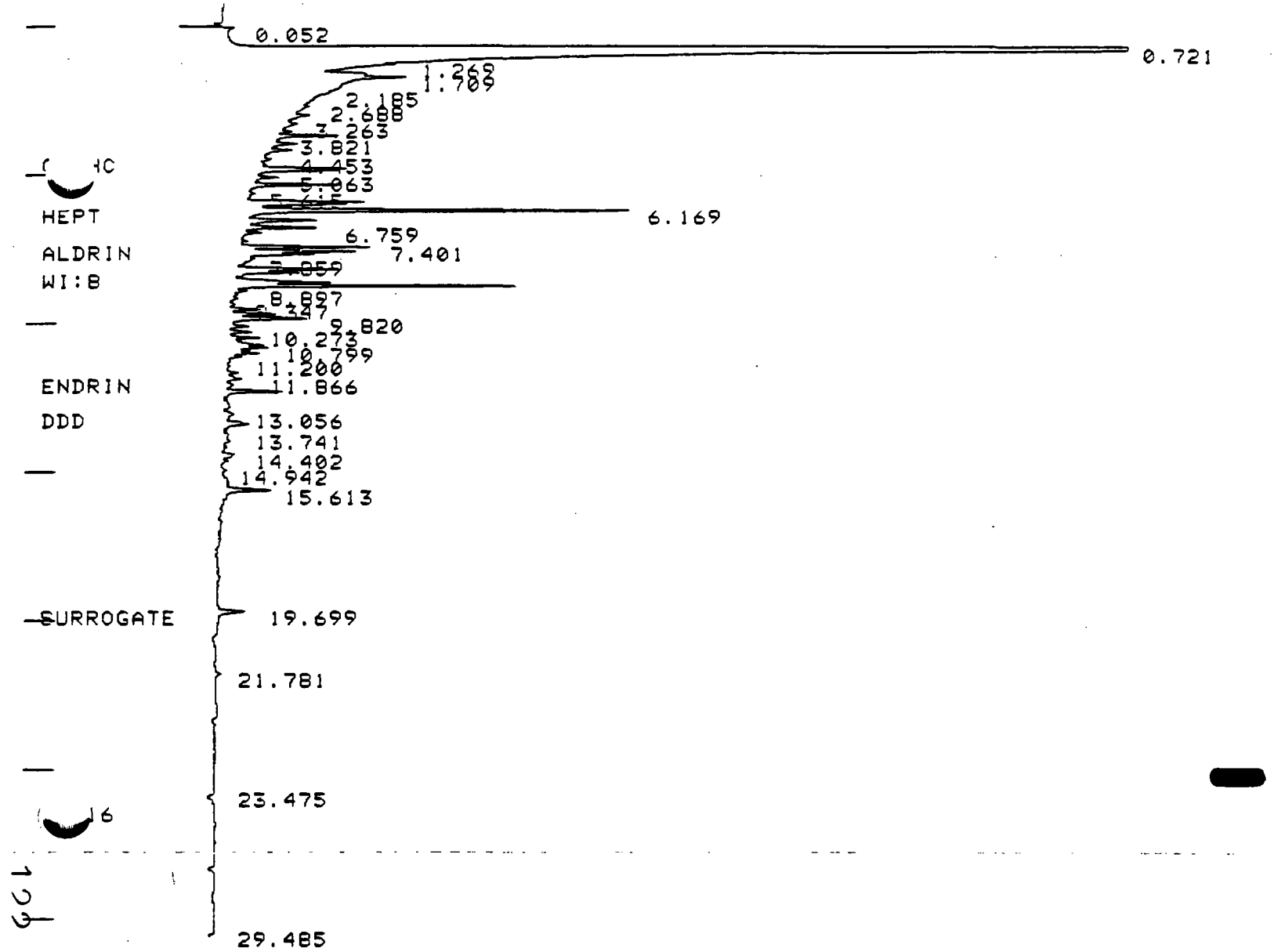
SAVED FILE: P1195

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 22:36 6 NOV 85

CHANNEL NO: 3 SAMPLE: 15091761 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	PRT	SEP CODE	W1/2 (SEC)



GC#6, SP-5, 2ul injected

TITLE: RUN# 13 08-37 3:01 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091761 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		1123	0.01	BB	?	3.10
2		0.0000	0.721		846139	0.09	BV		6.60
3		0.0000	1.269		48149	0.16	VV	?	2.70
4		0.0000	1.598		17636	0.20	VV	?	7.00
5		0.0000	1.623		5842	0.21	VV	?	
6		0.0000	1.709		47505	0.22	VV	?	6.30
		0.0000	1.965		4243	0.25	VV	?	
		0.0000	2.007		14947	0.25	VV	?	
9		0.0000	2.185		9194	0.28	VV	?	
10		0.0000	2.976		2165	0.38	BB		4.25
11		0.0000	3.263		2492	0.41	BB	?	5.75
12		0.0000	3.521		1570	0.45	BV		3.80
13	A-BHC	0.0019	3.654	-0.046	8104	0.46	VV		3.60
14		0.0000	3.937		3671	0.50	VV		3.95
15	B-BHC	0.0025	4.151	-0.199	3368	0.53	VB		3.95

Run #13
15091761
08-37

NO	NAME	UG/ML	(MIN)	OFFSET	COUNTS		CODE		(SEC)
1		0.0000	0.052		11[illegible]	0.01	BB	?	3.10
2		0.0000	0.721		846[illegible]	0.09	BV		6.60
3		0.0000	1.269		481[illegible]	0.16	VV	?	2.70
4		0.0000	1.598		176[illegible]	0.20	VV	?	7.00
5		0.0000	1.623		584[illegible]	0.21	VV	?	
6		0.0000	1.709		47505	0.22	VV	?	6.30
[illegible]		0.0000	1.965		4243	0.25	VV	?	
[illegible]		0.0000	2.007		14947	0.25	VV	?	
[illegible]		0.0000	2.185		9194	0.28	VV	?	
10		0.0000	2.976		2165	0.38	BB		4.25
11		0.0000	3.263		2492	0.41	BB	?	5.75
12		0.0000	3.521		1570	0.45	BV		3.80
13	A-BHC	0.0019	3.654	-0.046	8104	0.46	VV		3.60
14		0.0000	3.937		3671	0.50	VV		3.95
15	B-BHC	0.0025	4.151	-0.199	3368	0.53	VB		3.95
16	G-BHC	0.0003	4.453	-0.057	1315	0.57	BV		4.15
17		0.0000	4.764		10754	0.61	VV	?	3.90
18		0.0000	4.792		8440	0.61	VV	?	6.00
19		0.0000	5.063		3209	0.64	VV		2.85
20	D-BHC	0.0034	5.311	0.111	11290	0.68	VB		3.70
21		0.0000	5.883		14690	0.75	VV	?	3.90
22		0.0000	5.955		13195	0.76	VV	?	4.30
23		0.0000	6.169		68100	0.78	VV		4.75
24		0.0000	6.513		13159	0.83	VV		4.70
25	HEPT	0.0047	6.759	0.099	10889	0.86	VV		3.85
26		0.0000	6.931		2269	0.88	VB		3.50
27		0.0000	7.209		1037	0.92	BV		3.30
28		0.0000	7.401		17866	0.94	VV		3.85
29		0.0000	7.551		16890	0.96	VV		4.15
30		0.0000	7.647		11605	0.97	VV	?	4.90
31		0.0000	7.797		3182	0.99	VV	?	2.10
32	ALDRIN	0.0005	7.859	0.029	1849	1.00	VV	?	7.60
33		0.0000	7.943		1293	1.01	VV	?	7.30
34		0.0000	8.143		14189	1.04	VV		4.15
35		0.0000	8.257		10887	1.05	VV	?	4.70
36		0.0000	8.588		17455	1.09	VV		5.15
37		0.0000	8.704		40304	1.11	VV		3.65
[illegible]		0.0000	8.897		1091	1.13	T		3.45
[illegible]	HEPT EP	0.0016	9.512	0.122	4199	1.21	VV		4.05
40		0.0000	9.670		7206	1.23	VV		4.45
41		0.0000	9.820		15497	1.25	VV		5.50
42		0.0000	10.086		3255	1.28	VV		4.50
43		0.0000	10.273		3600	1.31	VV		4.20
44		0.0000	10.465		4616	1.33	VV		4.10
45		0.0000	10.571		1423	1.35	VV	?	3.40
46		0.0000	10.705		6679	1.36	VV	?	6.70
47	A ENDO	0.0022	10.799	0.029	5949	1.37	VV	?	4.75
48		0.0000	10.901		2863	1.39	VV	?	3.80
49		0.0000	10.996		4575	1.40	VV	?	2.40
50		0.0000	11.112		2297	1.41	VV	?	3.90
51		0.0000	11.658		1673	1.48	VV		3.95
52	DIELDRIN	0.0011	11.866	0.016	2928	1.51	VV		7.30
53	DDE	0.0007	12.051	-0.079	1813	1.53	VV		6.35
54		0.0000	12.284		8403	1.56	VB		4.05
55	B ENDO	0.0009	13.056	-0.084	2108	1.66	BV		6.95
56		0.0000	13.389		6436	1.70	VV		8.00
57	END ALD	0.0008	13.955	-0.055	1574	1.78	VV	?	4.45
58		0.0000	14.402		1973	1.83	BV	?	3.90
59	ENDO SO4	0.0005	14.628	-0.412	1059	1.86	VB		3.65
60		0.0000	15.326		1358	1.95	VV	?	11.60
61	DDT	0.0057	15.613	0.123	9749	1.99	VB		5.50
62	SURROGATE	0.0029	19.699	-0.051	6525	2.51	BB		6.45
63		0.0000	21.781		1204	2.77	BB		5.35
64		0.0000	23.475		19356	2.99	BB	?	140.05
65		0.0000	29.485		15173	3.75	BB	?	62.35
TOTALS:		0.0297		-0.454	1454600				

DETECTED PKS: 81 REJECTED PKS: 16

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 8.5 OFFSET: -208

RACK: : VIAL: 13 INJ: 1

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-38 15091762

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/22/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 10

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	2.0
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

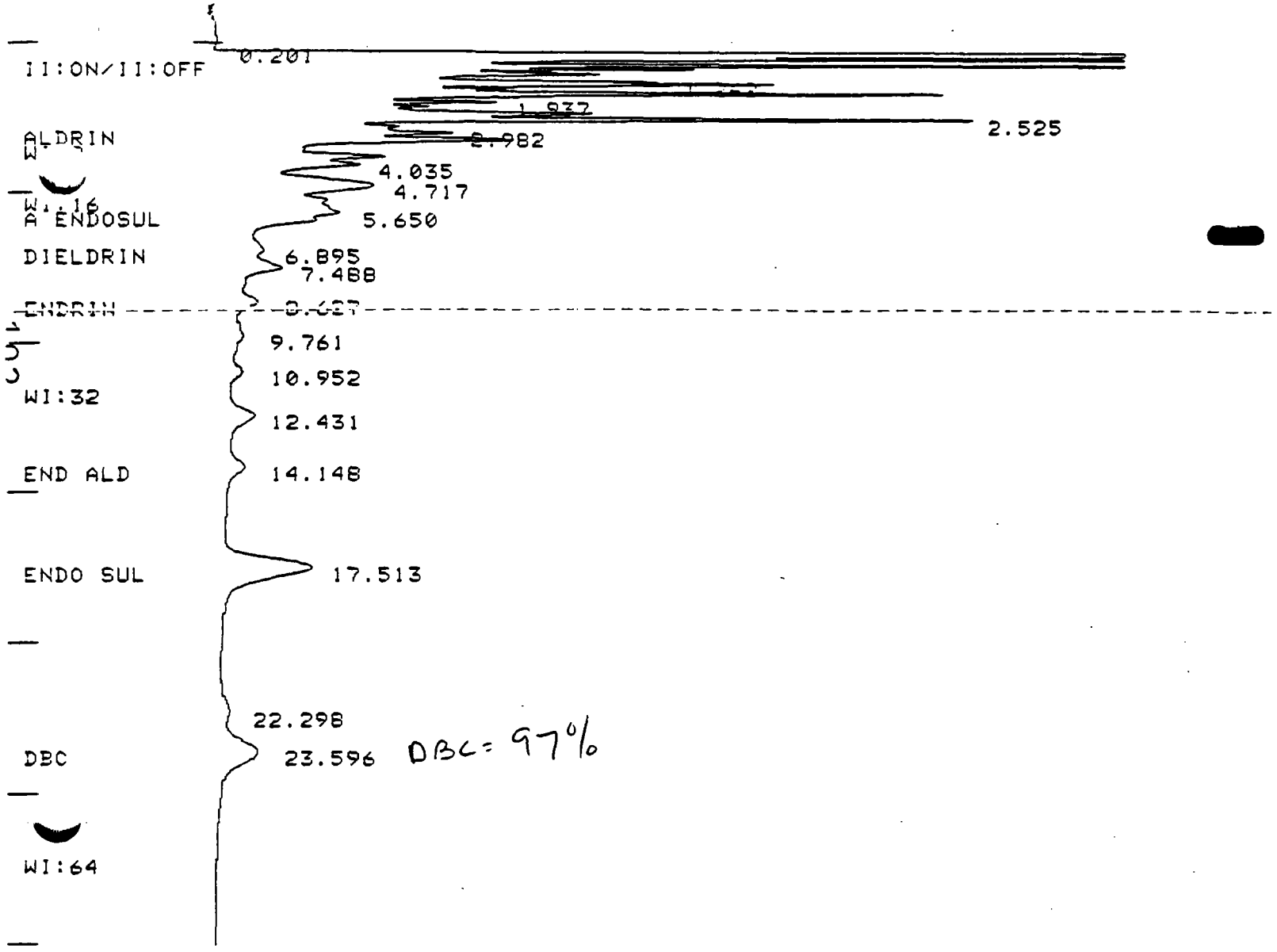
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4



1/10

08-38

TITLE: RUN # 23 23:42 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091762 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.304		129265	VV	?	3.60
2		0.0000	0.334		133152	VB	?	2.90
3		0.0000	0.482		11534	BB		2.25
4		0.0000	0.684		31049	BV		2.50
5		0.0000	0.827		3519	VV		2.45
6		0.0000	0.991		2277	VV		5.30
		0.0000	1.242		3536	VV	?	3.60
		0.0000	1.327		5471	VV	?	6.70
		0.0000	1.509		1412	VV	?	3.00
10	A-BHC	0.0065	1.648	0.028	8480	VV		4.90
11		0.0000	1.937		1714	VV		4.20
12	G-BHC	0.0006	2.092	0.042	775	VV		3.90
13	B-BHC	0.0105	2.319	-0.041	3547	VV		9.40
14		0.0000	2.525		9772	VV		5.70
15	D-BHC	0.0015	2.752	0.013	873	VV	?	5.60
		0.0000	2.952		803	VV	?	2.70

2.64 JM 2.0

.076 x ~~2.37~~ x 1 x 10 = ~~1.8~~

TITLE: RUN # 23 08-38 23:42 6 NOV 85

CHANNEL NO: 2 SAMPLE: 15091762 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.304		129265	VV	?	3.60
2		0.0000	0.334		133152	VB	?	2.90
3		0.0000	0.482		11534	BB		2.25
4		0.0000	0.684		31049	BV		2.50
5		0.0000	0.827		3519	VV		2.45
6		0.0000	0.991		2277	VV		5.30
7		0.0000	1.242		3538	VV	?	3.60
8		0.0000	1.327		5471	VV	?	6.70
9		0.0000	1.509		1412	VV	?	3.00
10	A-BHC	0.0065	1.648	0.028	8480	VV		4.90
11		0.0000	1.937		1714	VV		4.20
12	G-BHC	0.0008	2.092	0.042	775	VV		3.90
13	B-BHC	0.0105	2.319	-0.041	3547	VV		9.40
14		0.0000	2.525		9772	VV		5.70
15	D-BHC	0.0015	2.752	0.012	873	VV	?	5.80
16		0.0000	2.852		803	VV	?	2.70
17	ALDRIN	0.0028	2.982	-0.028	1903	VV	?	7.30
18		0.0000	3.212		3068	VB	?	8.40
19		0.0000	3.765		1393	VV		9.75
20		0.0000	4.035		1117	VV	?	12.15
		0.0000	4.717		1532	VV	?	25.65
		0.0000	5.230		908	VV	?	17.60
23		0.0000	5.650		1205	VV	?	29.60
24	A ENDOSUL	0.0029	5.891	0.111	893	VB	?	5.40
25	DIELDRIN	0.0009	6.895	-0.215	233	BV	?	23.10
26		0.0000	7.488		541	VB		21.10
27	ENDRIN	0.0016	8.627	-0.003	276	BB		19.90
28	B ENDOSUL	0.0010	10.952	0.352	155	BB		24.65
29		0.0000	12.431		391	BV		32.95
30	END ALD	0.0038	14.148	0.038	247	VB		30.40
31	ENDO SUL	0.0252	17.513	0.233	1391	BB		42.45
32		0.0000	22.298		142	BV	?	49.90
33	DBC	0.0097	23.596	0.546	609	VB		53.80
TOTALS:		0.0672		1.075	363185			

JM ~~2.37~~ 2.64

DETECTED PKS: 36 REJECTED PKS: 3

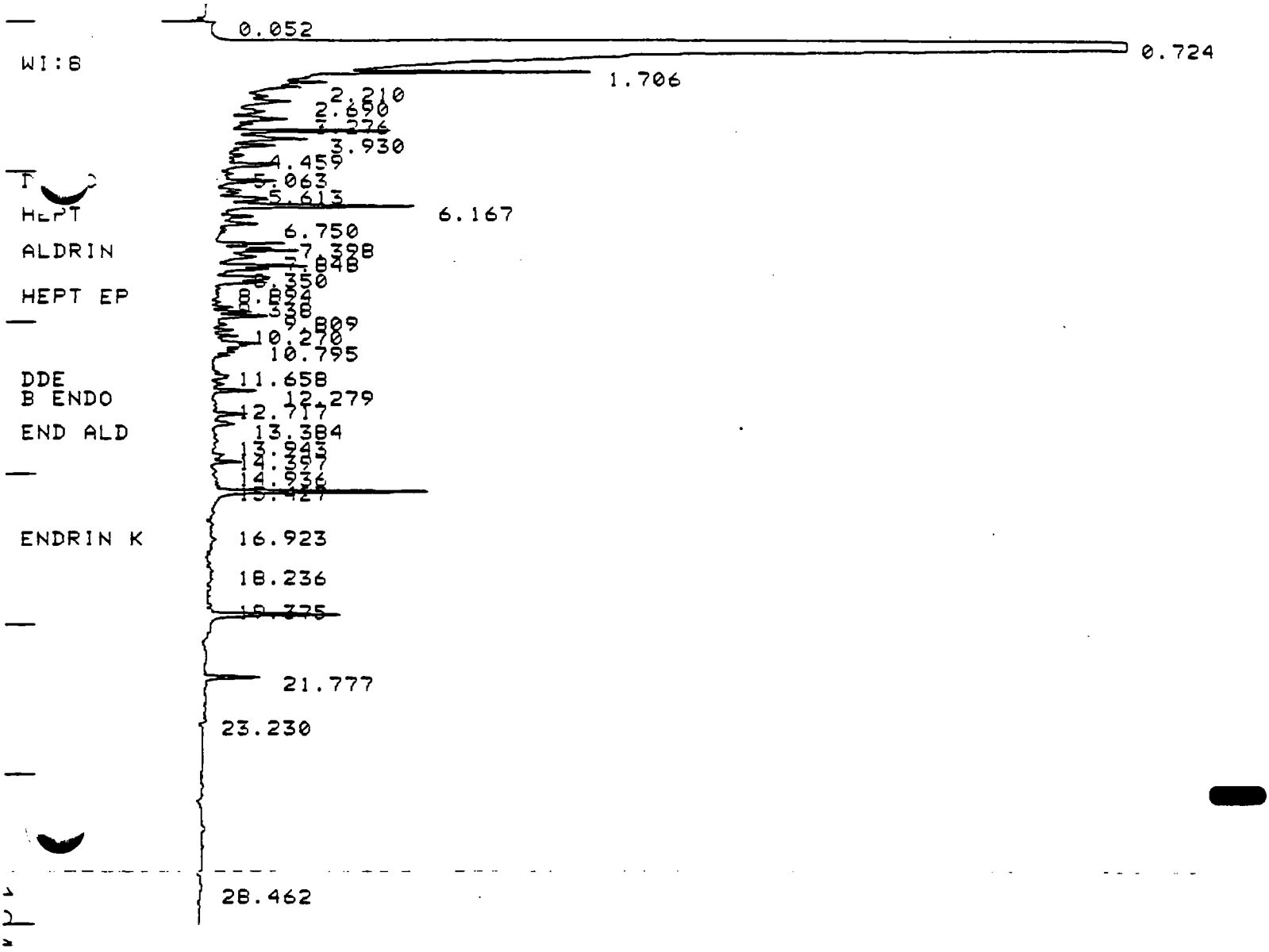
DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 38

RACK: 1 VIAL: 14 INJ: 1

SAVED FILE: P1197

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
#2



OC#6, SP-5, 2ul inj

08-38

TITLE: RUN# 14 3:37 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091762 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3760	0.01	BB	?	3.20
2		0.0000	0.724		1265440	0.09	BV		6.60
3		0.0000	0.910		388457	0.12	VV	?	20.30
4		0.0000	1.168		236133	0.15	VV	?	19.55
5		0.0000	1.706		72849	0.22	VV		4.00
6		0.0000	1.896		18863	0.24	VV	?	1.10
7		0.0000	2.043		27750	0.26	VV	?	7.00
8		0.0000	2.210		26100	0.28	VV	?	15.65
		0.0000	2.516		15152	0.32	VV	?	11.50
		0.0000	2.690		26777	0.34	VV	?	11.90
11		0.0000	2.959		5588	0.38	VV	?	6.30
12		0.0000	3.023		12134	0.38	VV	?	9.85
13		0.0000	3.276		21158	0.42	VV		9.60
14		0.0000	3.430		6178	0.44	VV	?	4.40
15		0.0000	3.509		4175	0.45	VV	?	1.45
16	4-BHC	0.0065	3.652	-0.048	28273	0.46	VV		4.25
17		0.0000	3.930		28955	0.50	VV		9.45

Run #14
15091762

10		0.0000	2.576		25111	0.54	VV	?	11.90
11		0.0000	2.959		5588	0.38	VV	?	6.30
12		0.0000	3.023		12134	0.38	VV	?	9.85
13		0.0000	3.276		21158	0.42	VV		9.60
14		0.0000	3.430		6178	0.44	VV	?	4.40
15		0.0000	3.509		4175	0.45	VV	?	1.45
16	A-BHC 08-38	0.0065	3.652	-0.048	28273	0.46	VV		4.25
17		0.0000	3.930		28955	0.50	VV		9.45
		0.0000	4.143		12585	0.53	VV		5.90
	B-BHC	0.0033	4.286	-0.064	4441	0.55	VV	?	3.10
20	G-BHC	0.0020	4.459	-0.051	7735	0.57	VV	?	7.50
21		0.0000	4.603		4605	0.59	VV	?	5.20
22		0.0000	4.770✓		17691	0.61	VV	?	5.30
23		0.0000	5.063✓		3650	0.64	VV		5.20
24	D-BHC	0.0008	5.196	-0.004	2732	0.66	VV	?	2.80
25		0.0000	5.318✓		13110	0.68	VV	?	3.15
26		0.0000	5.613		4789	0.71	VV		5.35
27		0.0000	5.721✓		4251	0.73	VV	?	5.55
28		0.0000	5.881✓		7385	0.75	VV	?	4.40
29		0.0000	5.952✓		7454	0.76	VV	?	4.90
30		0.0000	6.167✓		41981	0.79	VV		5.20
31		0.0000	6.356✓		2449	0.81	VV	?	1.90
32		0.0000	6.496✓		9081	0.83	VV	?	3.30
33	HEPT	0.0044	6.750✓	0.090	10083	0.86	VV		6.40
34		0.0000	6.931✓		2415	0.88	VV	?	5.40
35		0.0000	7.023		1604	0.89	VV	?	2.10
36		0.0000	7.398✓		11254	0.94	VV		4.05
37		0.0000	7.551✓		8279	0.96	VV	?	4.40
38		0.0000	7.643✓		13002	0.97	VV		4.45
39	ALDRIN	0.0043	7.848✓	0.018	15018	1.00	VV		10.30
40		0.0000	8.145✓		15144	1.04	VV		4.65
41		0.0000	8.257✓		9000	1.05	VV	?	5.05
42		0.0000	8.350		1557	1.06	VV	?	8.20
43		0.0000	8.523		7705	1.09	VV	?	4.60
44		0.0000	8.580		8181	1.09	VV	?	1.60
45		0.0000	8.694✓		8619	1.11	VV	?	4.65
46		0.0000	8.894		1470	1.13	VV		3.30
47		0.0000	9.029		1029	1.15	VV		3.05
		0.0000	9.155		1410	1.17	VV	?	4.85
	HEPT EP	0.0005	9.338	-0.052	1307	1.19	VV		4.20
50		0.0000	9.506		2942	1.21	VV		4.05
51		0.0000	9.663		5963	1.23	VV		4.55
52		0.0000	9.809		11697	1.25	VV		5.50
53		0.0000	10.088		3143	1.28	VV		5.65
54		0.0000	10.270		3445	1.31	VV		4.25
55		0.0000	10.459		3828	1.33	VV		4.15
56		0.0000	10.706		9337	1.36	VV	?	4.90
57	A ENDO	0.0019	10.795	0.025	5127	1.38	VV	?	5.75
58		0.0000	10.900		3579	1.39	VV	?	4.00
59		0.0000	10.991		3392	1.40	VV	?	3.55
60		0.0000	11.109		2683	1.42	VB		4.55
61		0.0000	11.658		1335	1.46	BV		4.90
62		0.0000	11.787		2506	1.50	VV	?	4.50
63	DIELDRIN	0.0007	11.859	0.009	1880	1.51	VV	?	4.30
64	DDE	0.0009	12.062	-0.068	2497	1.54	VV		5.80
65		0.0000	12.279		7281	1.57	VV		4.35
66	ENDRIN	0.0006	12.717	0.017	1283	1.62	VV		9.50
67	B ENDO	0.0032	13.047	-0.093	7442	1.66	VV		5.00
68		0.0000	13.384		6581	1.71	VV		7.85
69		0.0000	13.734		1602	1.75	VV	?	4.20
70	DDD	0.0012	13.943	0.043	2208	1.78	VV	?	4.80
71	END ALD	0.0007	14.130	0.120	1388	1.80	VV	?	6.90
72		0.0000	14.397		3726	1.83	VV		8.70
73		0.0000	14.623		5032	1.86	VV		4.20
74	ENDO SO4	0.0008	14.936	-0.104	1630	1.90	VV		8.60
75		0.0000	15.313		2733	1.95	VV	?	14.40
76	DDT	0.0008	15.427	-0.063	1368	1.97	VV	?	5.70
77		0.0000	15.599		39973	1.99	VB	?	2.85
	ENDRIN K	0.0006	17.183	0.293	1462	2.19	VB		5.50
	SURROGATE	0.0112	19.685	-0.065	25415	2.51	VB		5.15
80		0.0000	21.777		9243	2.78	BB		4.90
81		0.0000	28.462		2814	3.63	BB	?	
TOTALS:		0.0444		0.003	2633290				

DETECTED PKS: 91 REJECTED PKS: 10

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-39 15091763

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/22/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 5

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	< 0.5
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

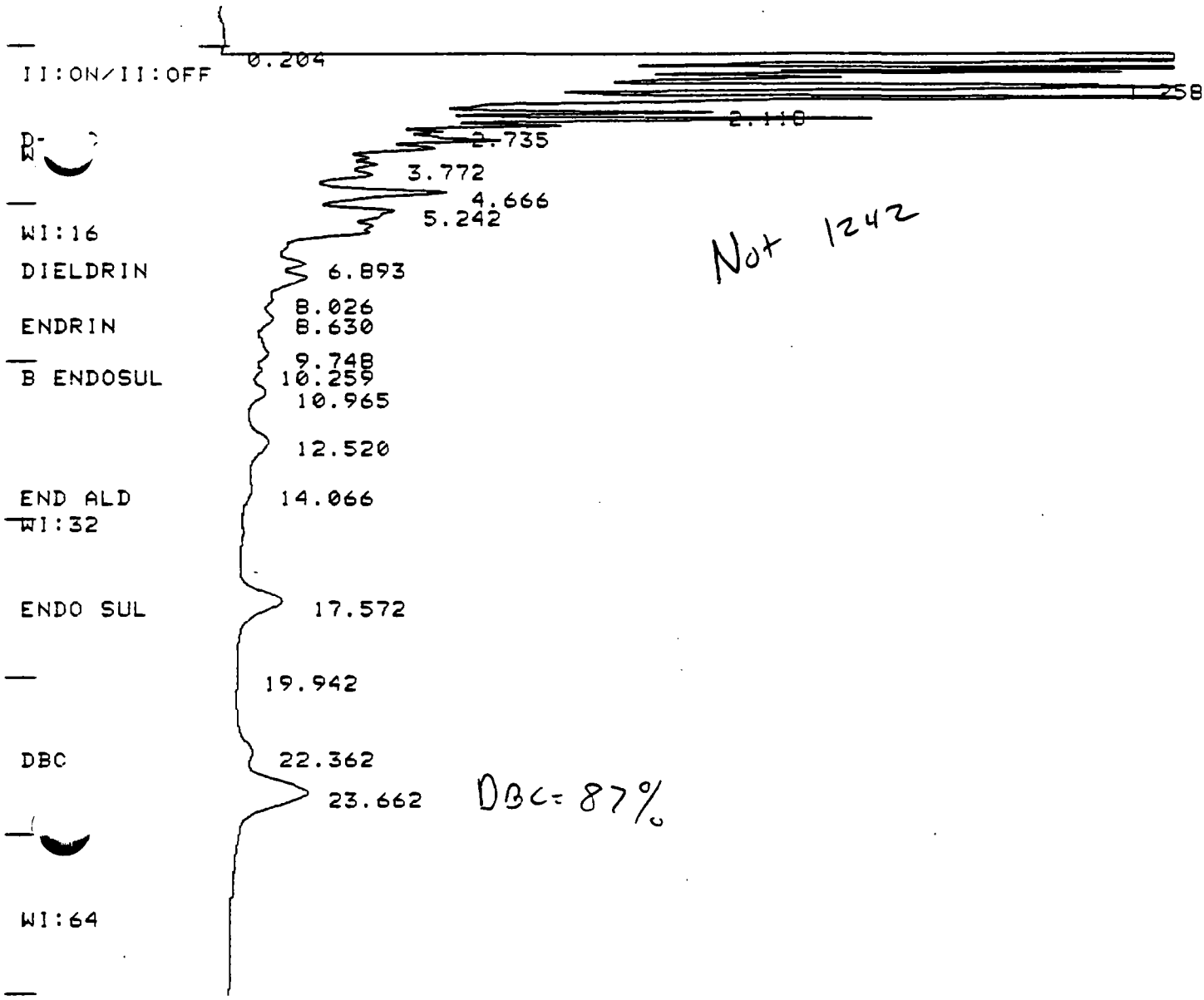
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



Not 1242

DBC= 87%

1/5

TITLE: RUN # 24 08-39 0:15 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091763 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.346		149666	VB	?	5.20
2		0.0000	0.493		10529	BB		2.05
3		0.0000	0.697		55969	BV		2.65
4		0.0000	0.839		7733	VV		2.65
5		0.0000	1.011		3786	VV	?-	6.00
6		0.0000	1.258		8135	VV	?	4.20
7		0.0000	1.335		10184	VV	?	8.30
8		0.0000	1.522		1386	VV	?	2.70
9	A-BHC	0.0100	1.662	0.042	13093	VB		5.10
10	G-BHC	0.0044	2.118	0.068	4090	BV		5.20
11	B-BHC	0.0199	2.328	-0.032	6727	VV		6.25
12		0.0000	2.542		2273	VV		5.00
13	D-BHC	0.0011	2.735	-0.005	657	VV		5.25
14		0.0000	2.893		742	VV	?	6.30

.076 x 2.09 x 1 x 5 = 0.79

TITLE: RUN # 24 08-39 0:15 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091763 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.346		149666	VB	?	5.20
2		0.0000	0.493		10529	BB		2.05
3		0.0000	0.697		55969	BV		2.65
4		0.0000	0.839		7733	VV		2.65
5		0.0000	1.011		3786	VV	?	6.00
6		0.0000	1.258		8135	VV	?	4.20
7		0.0000	1.335		10184	VV	?	8.30
8		0.0000	1.522		1386	VV	?	2.70
9	A-BHC	0.0100	1.662	0.042	13093	VB		5.10
10	G-BHC	0.0044	2.118	0.068	4090	BV		5.20
11	B-BHC	0.0199	2.328	-0.032	6727	VV		6.25
12		0.0000	2.542		2273	VV		5.00
13	D-BHC	0.0011	2.735	-0.005	657	VV		5.25
14		0.0000	2.893		742	VV	?	6.30
15	ALDRIN	0.0027	3.012	0.002	1816	VV		6.80
16		0.0000	3.257		1050	VV		8.00
17		0.0000	3.566	H=2.09	327	VV		7.00
18		0.0000	3.772		537	VV		8.20
19		0.0000	4.099		679	VV		8.90
20		0.0000	4.666		2007	VV		13.80
21		0.0000	5.242		1357	VV	?	12.30
22	A ENDOSUL	0.0038	5.712	-0.068	1160	VV	?	13.90
23		0.0000	5.907		1140	VB	?	14.05
24		0.0000	6.893		408	BV		15.55
25	DIELDRIN	0.0020	7.326	0.216	489	VV		19.70
26	ENDRIN	0.0009	8.630	0.000	161	VB		18.55
27		0.0000	9.748		167	BV		22.00
	B ENDOSUL	0.0014	10.965	0.365	208	VB		23.90
		0.0000	12.520		314	BV	?	44.70
30	END ALD	0.0016	14.066	-0.044	107	VB	?	25.50
31	ENDO SUL	0.0116	17.572	0.292	641	BB		41.95
32		0.0000	22.362		258	VV	?	52.80
33	DBC	0.0174	23.662	0.612	1097	VB		55.55
TOTALS:		0.0768		1.448	288893			

DETECTED PKS: 37 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 48

RACK: 1 VIAL: 15 INJ: 1

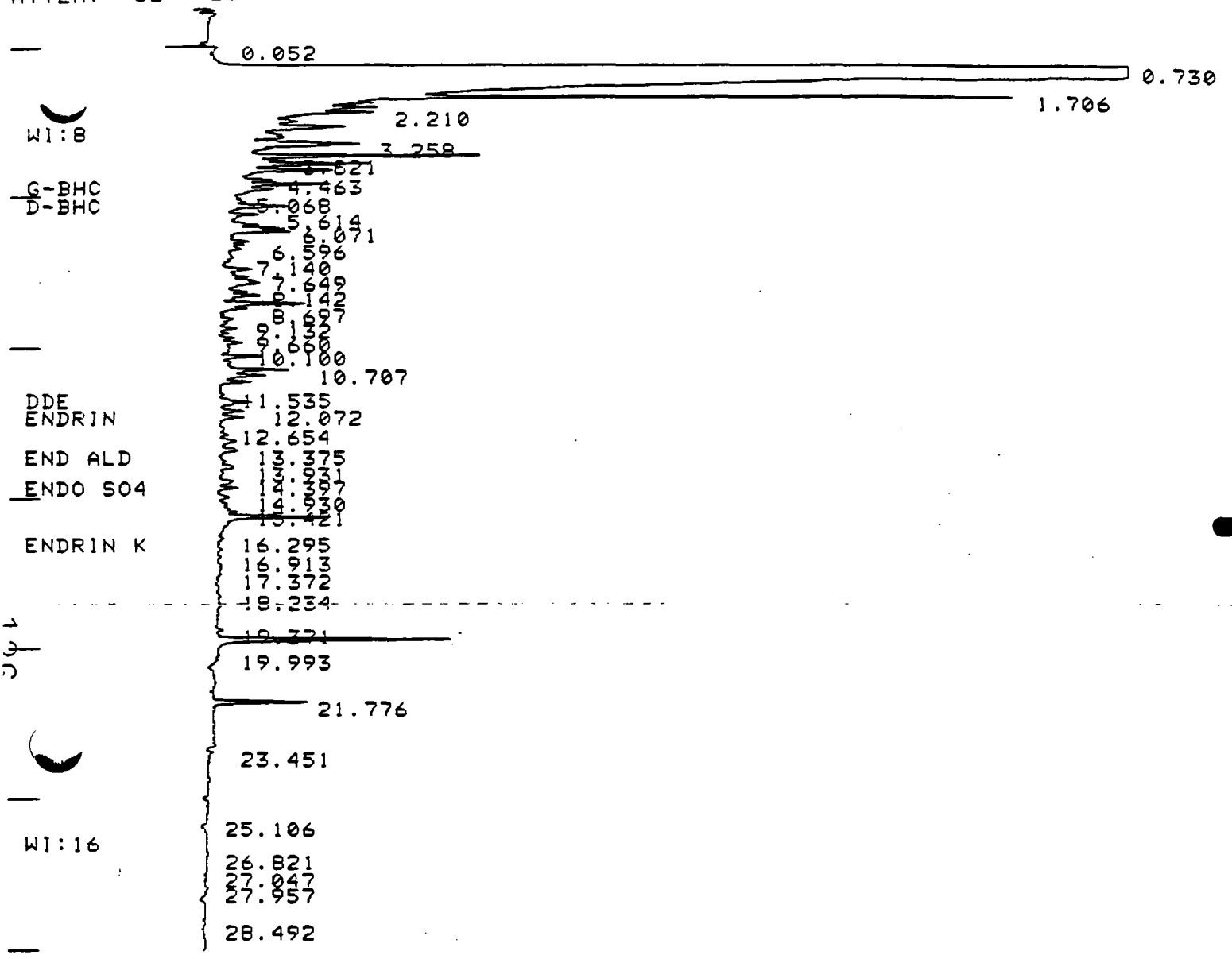
SAVED FILE: P119B

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 0:15 7 NOV 85

CHANNEL NO: 3 SAMPLE: 15091763 METHOD: 2A PP-4

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



KS

GC#6, SPB5, 2ul injected

TITLE: RUN# 15 08-~~08~~ 39 4:14 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091763 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3810	0.01	BB	?	3.20
2		0.0000	0.730		2413350	0.09	BV		7.05
3		0.0000	1.706		140050	0.22	VV		3.50
		0.0000	1.901		32882	0.24	VV	?	3.30
		0.0000	2.042		41440	0.26	VV	?	6.85
6		0.0000	2.210		44499	0.28	VV	?	13.70
7		0.0000	2.514		24615	0.32	VV	?	10.90
8		0.0000	2.690		44462	0.34	VV	?	10.75
9		0.0000	2.956		10991	0.38	VV	?	5.50
10		0.0000	3.027		16728	0.39	VV	?	3.60
11		0.0000	3.258		43862	0.41	VV	?	7.30
12		0.0000	3.428		11759	0.44	VV	?	2.20

Run#15-
15091763
08-39

13	A-BHC	0.0105	3.655	-0.047	45009	0.48	VV	?	2.75
14		0.0000	3.821		9500	0.49	VV	?	4.50
15		0.0000	3.933		32610	0.50	VV		5.65
16	B-BHC	0.0215	4.138	-0.212	28991	0.53	VV		5.75
17	G-BHC	0.0033	4.463	-0.047	12825	0.57	VV	?	8.90
18		0.0000	4.596		21037	0.58	VV		5.10
19		0.0000	4.769		18451	0.61	VV	?	13.70
20		0.0000	5.068		4220	0.65	VV	?	3.80
	D-BHC	0.0017	5.196	-0.004	5747	0.66	VV	?	8.70
		0.0000	5.330		16992	0.68	VV		6.45
23		0.0000	5.614		7589	0.71	VV		6.20
24		0.0000	5.682		4326	0.72	VV	?	
25		0.0000	5.963		8848	0.76	VV	?	10.80
26		0.0000	6.071		9832	0.77	VV	?	5.30
27		0.0000	6.166		13683	0.78	VV	?	6.30
28		0.0000	6.369		2603	0.81	VV	?	4.70
29		0.0000	6.496		5417	0.83	VV	?	6.20
30	HEPT	0.0016	6.596	-0.064	3683	0.84	VV	?	4.10
31		0.0000	6.741		5677	0.86	VV	?	11.65
32		0.0000	7.023		5528	0.89	VV	?	14.40
33		0.0000	7.140		2317	0.91	VV	?	2.70
34		0.0000	7.396		7596	0.94	VV		6.50
35		0.0000	7.548		2699	0.96	VV	?	4.60
36		0.0000	7.649		4600	0.97	VV	?	5.40
37		0.0000	7.764		5286	0.99	VV	?	5.70
38	ALDRIN	0.0034	7.850	0.020	11759	1.00	VV	?	9.35
39		0.0000	8.142		5231	1.04	VV	?	6.00
40		0.0000	8.263		6811	1.05	VV		5.20
41		0.0000	8.380		2474	1.07	VV	?	5.90
42		0.0000	8.516		15020	1.09	VV		4.40
43		0.0000	8.697		5304	1.11	VV	?	6.00
44		0.0000	9.029		3024	1.15	VV	?	4.90
45		0.0000	9.132		1452	1.16	VV	?	
46	HEPT EP	0.0011	9.335	-0.055	2784	1.19	VV	?	3.20
47		0.0000	9.507		1248	1.21	VV		5.30
48		0.0000	9.660		2790	1.23	VV		5.45
49		0.0000	9.830		4871	1.25	VV		6.15
50		0.0000	9.989		2100	1.27	VV	?	3.10
		0.0000	10.100		1967	1.29	VV	?	2.05
		0.0000	10.271		7312	1.31	VV		4.40
53		0.0000	10.459		2601	1.33	VV	?	5.90
54		0.0000	10.707		12272	1.36	VV		4.40
55	A ENDO	0.0008	10.783	0.013	2050	1.37	VV	?	
56		0.0000	10.900		9064	1.39	VV		5.30
57		0.0000	11.110		5151	1.41	VV		4.65
58		0.0000	11.535		1302	1.47	VV	?	5.45
59	DIELDRIN	0.0028	11.787	-0.063	7291	1.50	VV		5.10
60	DDE	0.0016	12.072	-0.058	4353	1.54	VV		5.10
61		0.0000	12.279		4695	1.56	VV		4.85
62	ENDRIN	0.0007	12.654	-0.046	1401	1.61	VV	?	8.50
63		0.0000	12.862		1650	1.64	VV		7.60
64	B ENDO	0.0020	13.066	-0.074	4549	1.66	VV		7.20
65		0.0000	13.375		5121	1.70	VV		9.05
66	DDD	0.0016	13.931	0.031	3022	1.77	VB		8.75
67	END ALD	0.0017	14.397	0.387	3292	1.83	BV		8.35
68		0.0000	14.619		3233	1.86	VV		3.90
69	ENDO SO4	0.0011	14.930	-0.110	2348	1.90	VV		8.90
70		0.0000	15.192		1574	1.93	VV	?	13.10
71		0.0000	15.314		1059	1.95	VV	?	5.40
72	DDT	0.0013	15.421	-0.069	2246	1.96	VV	?	3.15
73		0.0000	15.599		18703	1.99	VB		5.00
74		0.0000	16.295		1284	2.08	BV		5.30
75		0.0000	16.676		1073	2.12	VV	?	4.40
76	ENDRIN K	0.0005	16.913	0.023	1271	2.15	VV		5.15
77		0.0000	17.177		1175	2.19	VV	?	4.10
78		0.0000	17.224		1252	2.19	VV	?	
79		0.0000	17.372		1573	2.21	VV	?	19.50
80	METHOXY	0.0027	18.509	0.229	1847	2.36	VB		4.70
		0.0000	19.371		1336	2.47	BV		4.50
	SURROGATE	0.0195	19.679	-0.071	44088	2.51	VV		4.85
83		0.0000	19.993		1263	2.55	T	?	
84		0.0000	21.776		14699	2.77	BB		4.45
85		0.0000	25.106		7899	3.20	BB	?	43.05
86		0.0000	26.821		9266	3.42	BV	?	27.90
87		0.0000	27.047		4528	3.44	VV	?	
88		0.0000	27.957		5769	3.56	VV	?	5.80
89		0.0000	28.0[illegible]		[illegible]	3.58	VV	?	9.25
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	VB	?	

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-40 15091764

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/22/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 20

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.0
11104-28-2	Aroclor-1221	< 2.0
11141-16-5	Aroclor-1232	< 2.0
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 2.0
11097-69-1	Aroclor-1254	< 4.0
11096-82-5	Aroclor-1260	< 4.0

V_i = Volume of extract injected (ul)

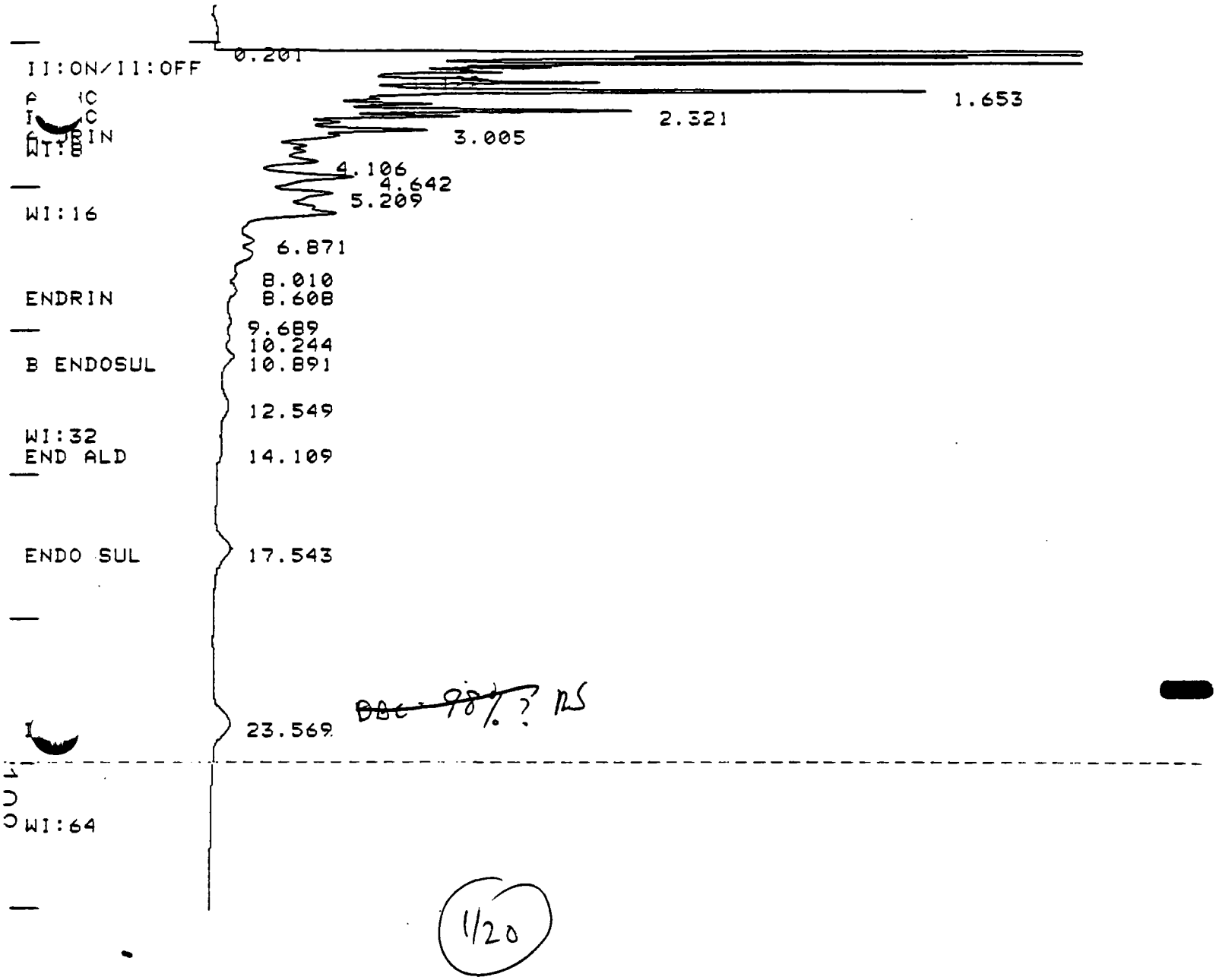
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



~~DBC 98%~~ ? RS

1/20

TITLE: RUN # 25 08-40 0:49 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091764 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.309		115312	VB	5.00
2		0.0000	0.489		6431	BB	2.20
3		0.0000	0.692		20034	BV	2.45
		0.0000	0.835		2191	VV	2.40
		0.0000	0.933		1130	VV ?	2.50
		0.0000	1.006		1760	VV	2.95
7		0.0000	1.247		1847	VV ?	3.90
8		0.0000	1.342		3764	VV	4.85
9		0.0000	1.514		689	VV ?	2.90
10	A-BHC	0.0071	1.653	0.033	9354	VV	6.00
11		0.0000	1.932		359	T	2.50
12	G-BHC	0.0017	2.104	0.054	1548	VV	4.90
13	B-BHC	0.0147	2.321	-0.039	2976	VV	4.50

.076 x 1.59 x 1 x 20 = 2.4

TITLE: RUN #25 08-40 0:49 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091764 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.309		115312	VB		5.00
2		0.0000	0.489		6431	BB		2.20
3		0.0000	0.692		20034	BV		2.45
4		0.0000	0.835		2191	VV		2.40
5		0.0000	0.933		1130	VV	?	2.50
6		0.0000	1.006		1760	VV		2.95
7		0.0000	1.247		1847	VV	?	3.90
8		0.0000	1.342		3764	VV		4.85
9		0.0000	1.514		689	VV	?	2.90
10	A-BHC	0.0071	1.653	0.033	9354	VV		6.00
11		0.0000	1.932		359	T		2.50
12	G-BHC	0.0017	2.104	0.054	1548	VV		4.90
13	B-BHC	0.0147	2.321	-0.039	4979	VV		6.50
14		0.0000	2.532		2308	VV		5.20
15	D-BHC	0.0009	2.735	-0.005	507	VV		5.85
16	ALDRIN	0.0031	3.005	-0.005	2098	VV		7.25
17		0.0000	3.203	1.59	793	VV	?	9.20
18		0.0000	3.566		441	VV		8.30
19		0.0000	3.757		485	VV		10.20
20		0.0000	4.106		807	VV		10.65
21		0.0000	4.642		1518	VV		13.90
22		0.0000	5.209		1280	VV		21.70
23	A ENDOSUL	0.0035	5.698	-0.082	1056	VV	?	18.20
24		0.0000	5.905		1468	VV	?	16.60
25		0.0000	6.871		238	VV		15.05
26	DIELDRIN	0.0011	7.312	0.202	262	VV		20.85
27	B ENDOSUL	0.0010	10.891	0.291	159	VB		22.40
28		0.0000	12.549		117	BB	?	42.90
[illegible]	ENDO SUL	0.0047	17.543	0.263	262	BB		42.20
[illegible]	DBC	0.0049	23.569	0.519	307	BB		52.75
TOTALS:		0.0427		1.231	183504			

DETECTED PKS: 37 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 76

RACK: 2 VIAL: 1 INJ: 1

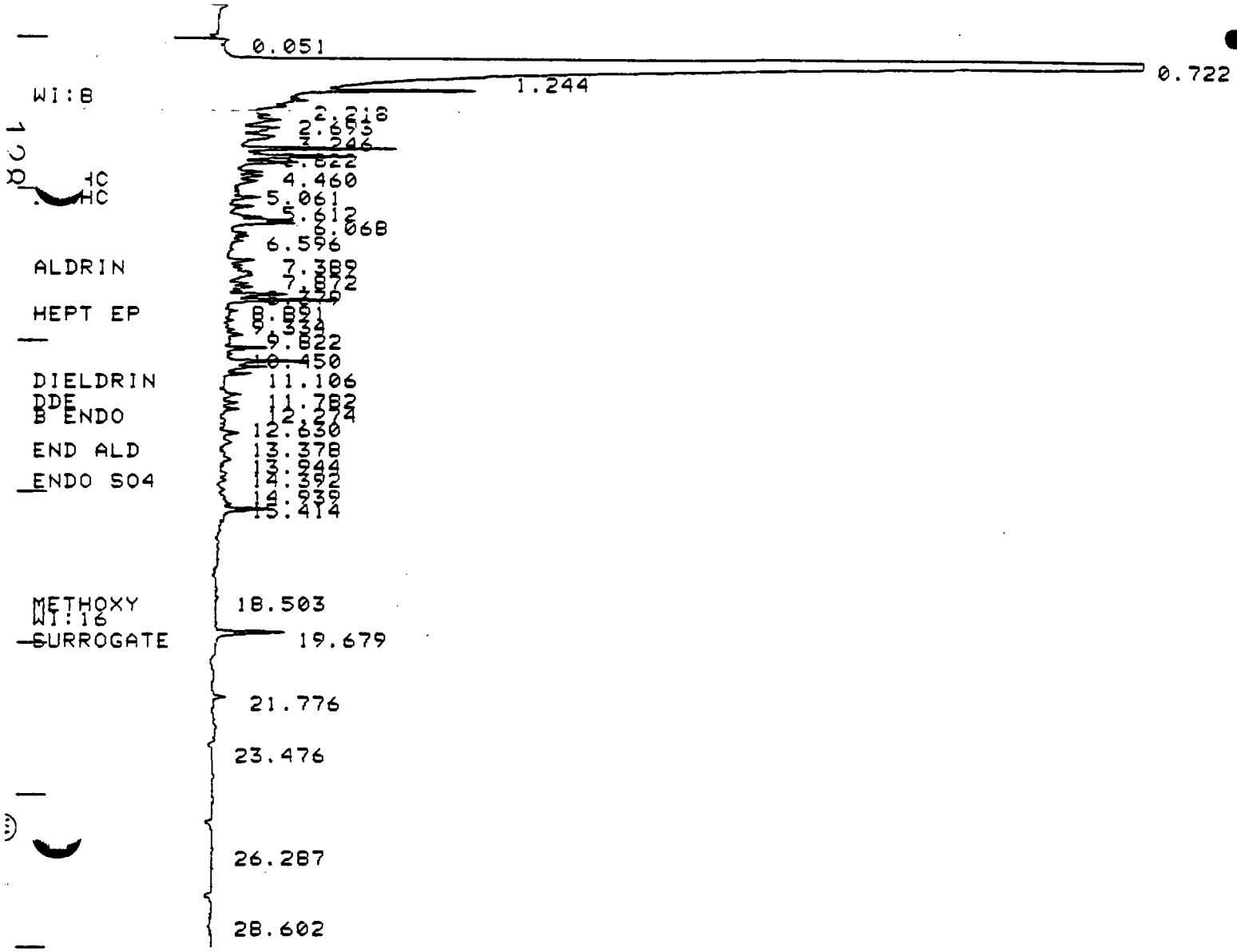
SAVED FILE: P1199

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 0:49 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091764 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE	W1/2 (SEC)
1		0.0000	0.309		115312	0.10	VB	5.00
2		0.0000	0.489		6431	0.16	BB	2.20



GC#6, SP-5, 2ul injected

TITLE: RUN# 16 08-40 4:50 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091764 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.051		2590	0.01	BB	?	3.10
2		0.0000	0.722		1359450	0.09	BV		6.40
3		0.0000	1.244		119017	0.16	VV	?	32.80
4		0.0000	1.622		5744	0.21	VV	?	
5		0.0000	1.706		51355	0.22	VV		4.80
6		0.0000	1.897		8155	0.24	VV	?	0.90
7		0.0000	1.973		7944	0.25	VV	?	2.80
		0.0000	2.042		20335	0.26	VV	?	4.15
		0.0000	2.218		18982	0.28	VV	?	16.10
10		0.0000	2.518		12390	0.32	VV	?	11.40
11		0.0000	2.693		19353	0.34	VV	?	12.05
12		0.0000	2.954		8726	0.38	VV	?	4.40
13		0.0000	3.006		8314	0.38	VV	?	15.20
14		0.0000	3.246		10864	0.41	VV	?	9.30
15		0.0000	3.292		6550	0.42	VV	?	12.20
16		0.0000	3.403		4505	0.43	VV	?	

Run #16
15091764
08-40

2		0.0000	0.722		1359450	0.09	BV		6.40
3		0.0000	1.244		119017	0.16	VV	?	32.80
4		0.0000	1.622		5744	0.21	VV	?	
5		0.0000	1.706		51355	0.22	VV		4.80
6		0.0000	1.897		8155	0.24	VV	?	0.90
7		0.0000	1.973		7944	0.25	VV	?	2.80
8		0.0000	2.042		20335	0.26	VV	?	4.15
		0.0000	2.218		18982	0.28	VV	?	16.10
		0.0000	2.518		12390	0.32	VV	?	11.40
11		0.0000	2.693		19353	0.34	VV	?	12.05
12		0.0000	2.954		8726	0.38	VV	?	4.40
13		0.0000	3.006		8314	0.38	VV	?	15.20
14		0.0000	3.246		10864	0.41	VV	?	9.30
15		0.0000	3.292		6550	0.42	VV	?	12.20
16		0.0000	3.403		4505	0.43	VV	?	
17	A-BHC	0.0066	3.652	-0.048	28829	0.46	VV		4.40
18		0.0000	3.822		4672	0.49	VV	?	4.60
19		0.0000	3.931		25582	0.50	VV		5.00
20	B-BHC	0.0121	4.137	-0.213	16273	0.53	VV		5.25
21	G-BHC	0.0021	4.460	-0.050	8117	0.57	VV		5.55
22		0.0000	4.592		7097	0.58	VV		5.95
23		0.0000	4.759✓		8754	0.61	VV		7.50
24		0.0000	5.061✓		3954	0.64	VV	?	3.00
25		0.0000	5.141		1276	0.65	VV	?	2.20
26	D-BHC	0.0005	5.161	-0.039	1555	0.66	VV	?	
27		0.0000	5.315✓		6381	0.68	VV	?	2.80
28		0.0000	5.612		7907	0.71	VV		4.60
29		0.0000	5.961✓		7231	0.76	VV		4.45
30		0.0000	6.068		9611	0.77	VV	?	4.30
31		0.0000	6.162✓		12447	0.78	VV	?	5.65
32		0.0000	6.311		1418	0.80	VV	?	
33		0.0000	6.491		4155	0.82	VV		5.45
34	HEPT	0.0017	6.596✓	-0.064	3846	0.84	VV	?	4.30
35		0.0000	6.746✓		3629	0.86	VV	?	5.60
36		0.0000	6.811		1008	0.86	VV	?	
37		0.0000	7.020✓		3230	0.89	VV	?	3.70
38		0.0000	7.389✓		6278	0.94	VV		4.95
		0.0000	7.543✓		2720	0.96	VV		4.45
		0.0000	7.651✓		2875	0.97	VV	?	4.80
41		0.0000	7.776		4124	0.99	VV	?	6.20
42	ALDRIN	0.0024	7.872	0.042	8380	1.00	VV	?	10.95
43		0.0000	8.134✓		4307	1.03	VV		5.00
44		0.0000	8.257✓		4514	1.05	VV		4.50
45		0.0000	8.379		2663	1.06	VV		4.30
46		0.0000	8.510		11649	1.08	VV		4.60
47		0.0000	8.695✓		17009	1.11	VV		3.90
48		0.0000	9.024		2107	1.15	VV		4.10
49		0.0000	9.166		1210	1.16	VV	?	5.20
50	HEPT EP	0.0005	9.334	-0.056	1413	1.19	VV		3.90
51		0.0000	9.655		2058	1.23	VV		4.70
52		0.0000	9.822		3811	1.25	VV		5.65
53		0.0000	9.930		1055	1.26	VV	?	
54		0.0000	10.031		1362	1.27	VV	?	16.40
55		0.0000	10.263		7048	1.30	VV		4.25
56		0.0000	10.450		1362	1.33	VV	?	4.35
57	A ENDO	0.0058	10.701	-0.069	15470	1.36	VV		4.10
58		0.0000	10.892		7922	1.38	VV		4.45
59		0.0000	11.106		4074	1.41	VB		4.00
60	DIELDRIN	0.0013	11.782	-0.068	3451	1.50	BV		4.65
61	DDE	0.0012	12.061	-0.069	3102	1.53	VV		4.95
62		0.0000	12.274		3458	1.56	VV		4.55
63	ENDRIN	0.0006	12.630	-0.070	1264	1.60	VV	?	8.45
64	B ENDO	0.0019	13.057	-0.083	4429	1.66	VV		5.50
65		0.0000	13.378		3843	1.70	VV		8.30
66		0.0000	13.735		1795	1.74	VV		5.35
67	DDD	0.0023	13.944	0.044	4445	1.77	VV		7.40
68	END ALD	0.0008	14.392	0.382	1566	1.83	VV	?	4.50
	ENDO S04	0.0008	14.618	-0.422	1646	1.86	VB		4.45
	DDT	0.0045	15.595	0.105	7720	1.98	VB		5.05
	SURROGATE	0.0062	19.679	-0.071	13928	2.50	BB		5.45
72		0.0000	21.776		2791	2.77	BB		5.40
73		0.0000	26.287		5207	3.34	BB	?	
74		0.0000	28.602		5888	3.63	BB	?	
TOTALS:		0.0513		-0.749	2009190				

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-41 15091765

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/22/85

Date Analyzed: 11/10/85

Conc/Dil Factor: 1

CAS Number		ug /PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

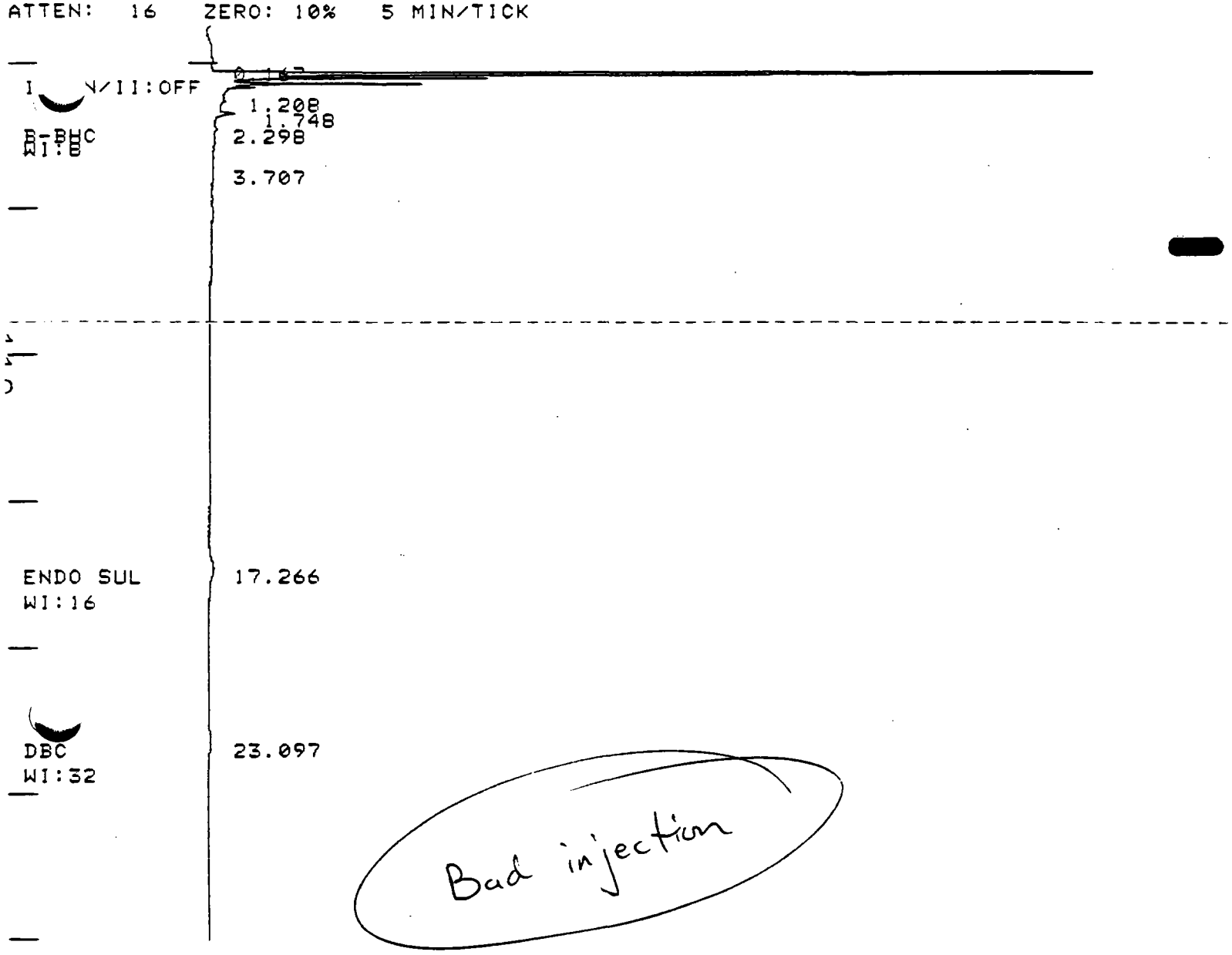
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK

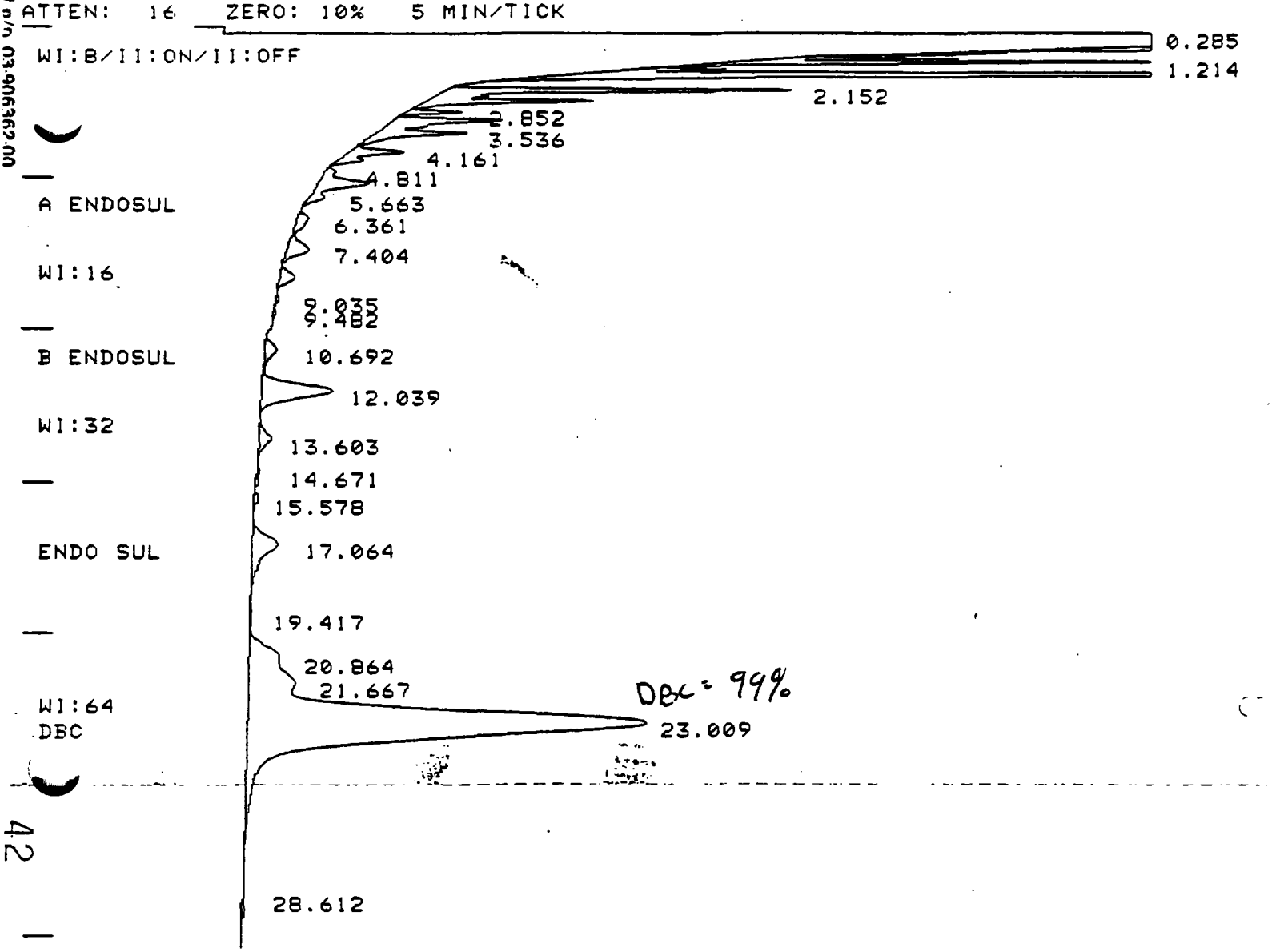


TITLE: RUN # 26 08-41 1:22 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091765 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.346		210242	VB	1.20
		0.0000	0.521		3592	BB	1.55
		0.0000	0.715		3069	BV	1.90
		0.0000	0.856		445	VV	1.85
5		0.0000	1.748		266	BB	4.55
TOTALS:		0.0000			217614		

DETECTED PKS: 18 REJECTED PKS: 13



42

.118 x 2.11 x 1ml x 1 = 0.25

TITLE: RUN # 10 08-41 18:54 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15091765 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.285		150484	BV	?	2.90
2		0.0000	0.344		207375	VB	?	6.00
3		0.0000	0.450		126352	BV		2.00
4		0.0000	0.629		143342	VV		2.55
5		0.0000	0.756		36295	VV		2.45
6		0.0000	0.919		998	T		1.75
7		0.0000	1.092		2567	VV		2.65
8		0.0000	1.214 ✓		7775	VV		3.80
9		0.0000	1.447 ✓		1366	VV		3.35
10	A-BHC	0.0312	1.619	-0.001	40982	VB		4.80
11	G-BHC	0.0058	2.152 ✓	0.102	5429	BV		7.15
12	B-BHC	0.0025	2.336 ✓	-0.024	861	VV	?	7.55
13		0.0000	2.506 ✓		2597	VV		6.35

28.612

.118 x 2.11 x 1ml x 1 = 0.25 x

TITLE: RUN # 10 08-41 18:54 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15091765 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.285		150484	BV	?	2.90
2		0.0000	0.344		207375	VB	?	6.00
3		0.0000	0.450		126352	BV		2.00
4		0.0000	0.629		143342	VV		2.55
5		0.0000	0.756		36295	VV		2.45
6		0.0000	0.919		998	T		1.75
7		0.0000	1.092		2567	VV		2.65
8		~~0.0000~~	~~1.214~~		~~7773~~	VV		3.80
9		0.0000	1.447		1366	VV		3.35
10	A-BHC	0.0312	1.619	-0.001	40982	VB		4.80
11	G-BHC	0.0058	2.152	0.102	5429	BV		7.15
12	B-BHC	0.0025	2.336	-0.024	861	VV	?	7.55
13		0.0000	2.506		2597	VV		6.35
14	D-BHC	0.0015	2.852	0.112	884	VV		5.80
15	ALDRIN	0.0025	3.122	0.112 2.11	1698	VV		8.60
16		0.0000	~~3.536~~		1424	VV		7.45
17		0.0000	4.161		855	VV		9.25
18		0.0000	4.430		397	VB		5.30
19		0.0000	4.811		157	BV		9.85
20		0.0000	5.197		785	VV	?	14.80
21	A ENDOSUL	~~0.0008~~	~~5.663~~	~~-0.117~~	~~249~~	VB		7.30
22		0.0000	6.361		172	BV	?	21.45
23	DIELDRIN	~~0.0013~~	~~7.404~~	~~0.294~~	~~327~~	VB	?	19.15
24	ENDRIN	0.0013	8.315	-0.315	228	BV		20.45
25	B ENDOSUL	0.0011	10.692	0.092	169	BV		24.35
26		0.0000	12.039		1100	VB		29.15
27	END ALD	0.0029	13.603	-0.507	192	BV		29.45
28	ENDO SUL	0.0070	17.064	-0.216	385	VV		40.75
29		0.0000	20.864		488	VV	?	56.50
30		0.0000	21.667		727	VV	?	59.30
31	DBC	0.0988	23.009	-0.041	6227	VB		56.30
TOTALS:		0.1567		-0.509	742887			

DETECTED PKS: 37 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

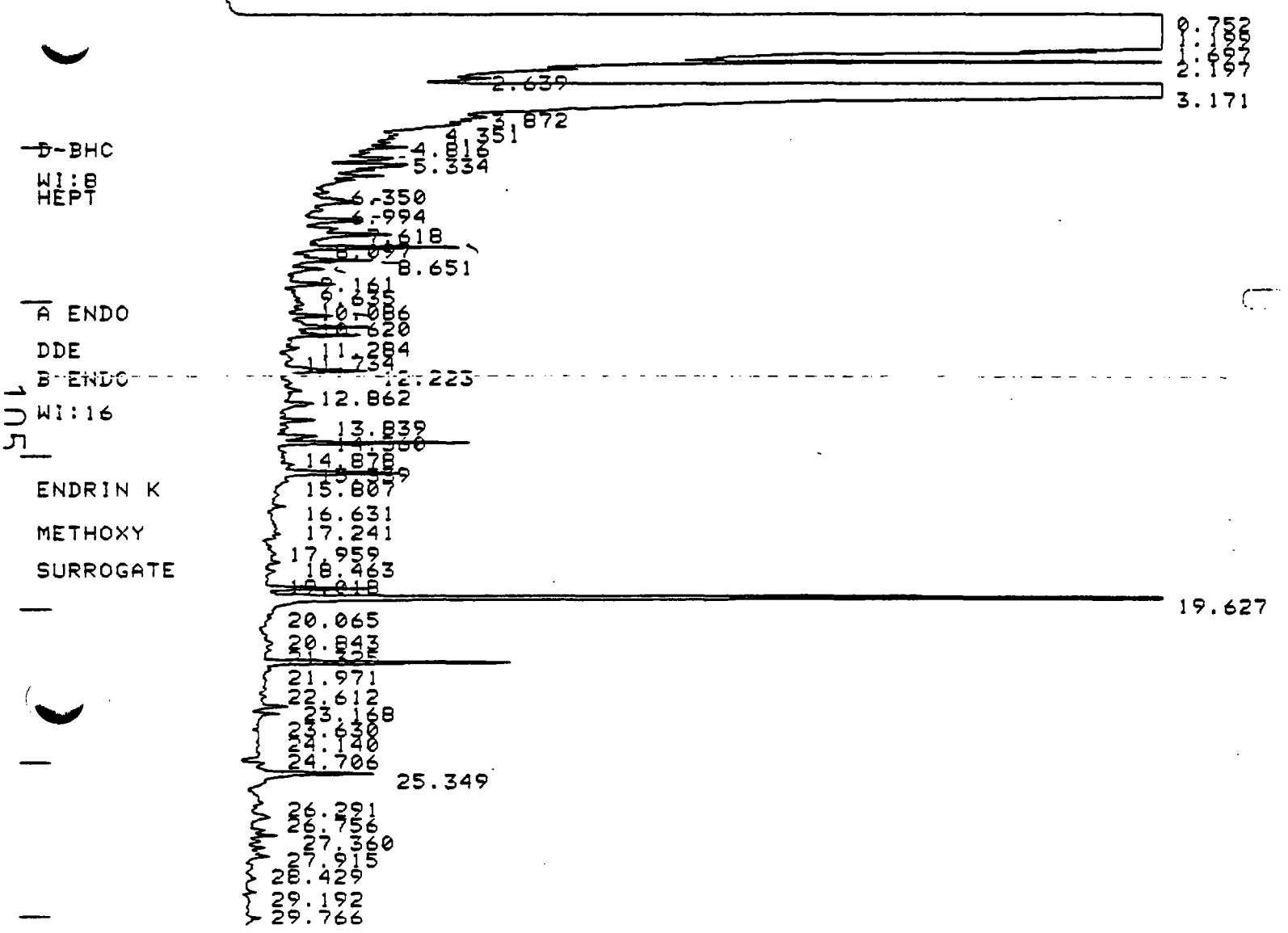
NOISE: 4.9 OFFSET: -11

SAVED FILE: P1237

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale, calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



CC#6, SP-5, 2ul injected

TITLE: RUN# 5 08-41 20:08 18 NOV 85

CHANNEL NO: 2 SAMPLE: 15091765 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.752		3644850	0.10	BV	?	7.50
2		0.0000	0.914		2241760	0.12	VV	?	2.10
		0.0000	1.199		1103810	0.15	VV	?	5.90
4		0.0000	1.416		405894	0.18	VV	?	2.70
5		0.0000	1.542		390390	0.20	VV	?	3.90
6		0.0000	1.697		761356	0.22	VV	?	2.05
7		0.0000	1.887		234696	0.24	VV	?	3.30
8		0.0000	2.077		75433	0.27	VV	?	1.55
9		0.0000	2.197		241404	0.28	VV		4.90
10		0.0000	2.432		124615	0.31	VV	?	4.60
11		0.0000	2.639		24684	0.34	VV	?	1.05

TITLE: RUN# 5 08-41 20:08 18 NOV 85

CHANNEL NO: 2 SAMPLE: 15091765 METHOD: 6B P

PEAK	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
		0.0000	0.752		3644850	0.10	BV	?	7.50
2		0.0000	0.914		2241760	0.12	VV	?	2.10
3		0.0000	1.199		1103810	0.15	VV	?	5.90
4		0.0000	1.416		405894	0.18	VV	?	2.70
5		0.0000	1.542		390390	0.20	VV	?	3.90
6		0.0000	1.697		761356	0.22	VV	?	2.05
7		0.0000	1.887		234696	0.24	VV	?	3.30
8		0.0000	2.077		75433	0.27	VV	?	1.55
9		0.0000	2.197		241404	0.28	VV		4.90
10		0.0000	2.432		124615	0.31	VV	?	4.60
11		0.0000	2.639		24684	0.34	VV	?	1.05
12		0.0000	2.727		70708	0.35	VV	?	4.90
13		0.0000	2.962		3092150	0.38	VV	?	5.15
14		0.0000	3.171		1160760	0.41	VV	?	7.70
15	A-BHC	0.0391	3.620	-0.080	170141	0.46	VV	?	1.60
16		0.0000	3.872		13976	0.49	VV	?	
17		0.0000	4.003		67229	0.51	VV	?	5.20
18		0.0000	4.111		46424	0.53	VV	?	6.20
19		0.0000	4.189		14030	0.54	VV	?	2.70
20		0.0000	4.214		13934	0.54	VV	?	1.30
21		0.0000	4.229		47114	0.54	VV	?	
22	B-BHC	0.0280	4.351	0.001	37626	0.56	VV	?	
23	G-BHC	0.0104	4.566	0.056	40084	0.58	VV	?	7.20
24		0.0000	4.626		10644	0.59	VV	?	1.15
25		0.0000	4.689		26412	0.60	VV	?	4.30
26		0.0000	4.736		11134	0.61	VV	?	
27		0.0000	4.816		36513	0.62	VV	?	5.55
28		0.0000	4.971		51510	0.64	VV	?	6.50
29	D-BHC	0.0099	5.150	-0.050	32724	0.66	VV	?	5.85
		0.0000	5.334		55381	0.68	VV	?	7.30
		0.0000	5.532		26897	0.71	VV	?	7.50
32		0.0000	5.571		28889	0.71	VV	?	0.90
33		0.0000	5.715		31014	0.73	VV	?	4.20
34		0.0000	5.900		40296	0.75	VV	?	9.0[illegible]
35		0.0000	6.031		57285	0.77	VV	?	4.60
36		0.0000	6.350		11802	0.81	VV	?	4.40
37		0.0000	6.428		21867	0.82	VV	?	4.70
38	HEPT	0.0131	6.656	-0.004	30079	0.85	VV	?	14.80
39		0.0000	6.752		40951	0.86	VV	?	7.10
40		0.0000	6.994		44375	0.89	VV	?	6.50
41		0.0000	7.341		58996	0.94	VV	?	14.60
42		0.0000	7.618		33232	0.97	VV	?	7.80
43	ALDRIN	0.0178	7.818	-0.012	61398	1.00	VV	?	23.85
44		0.0000	8.097		11229	1.04	VV	?	3.70
45		0.0000	8.226		58941	1.05	VV	?	3.90
46		0.0000	8.485		14628	1.09	VV	?	6.20
47		0.0000	8.651		48954	1.11	VV	?	11.90
48		0.0000	8.925		32781	1.14	VV	?	7.90
49		0.0000	9.161		14552	1.17	VV	?	5.00
50		0.0000	9.250		5246	1.18	VV	?	
51	HEPT EP	0.0125	9.400	0.010	32429	1.20	VV	?	11.60
52		0.0000	9.635		13664	1.23	VV	?	8.20
53		0.0000	9.783		14128	1.25	VV	?	10.00
54		0.0000	9.882		13107	1.26	VV	?	6.70
55		0.0000	9.979		7846	1.28	VV	?	3.90
56		0.0000	10.086		20776	1.29	VV	?	8.80
57		0.0000	10.229		16648	1.31	VV	?	5.10
58		0.0000	10.425		30675	1.33	VV	?	10.20
59		0.0000	10.620		9454	1.36	VV	?	5.60
[illegible]		0.0000	10.675		6097	1.37	VV	?	2.70
[illegible]	A ENDO	0.0127	10.795	0.025	33741	1.38	VV	?	10.70
62		0.0000	10.944		11617	1.40	VV	?	5.30
63		0.0000	11.064		32348	1.41	VV	?	9.30
64		0.0000	11.284		19203	1.44	VV	?	7.70
65		0.0000	11.488		23140	1.47	VV	?	8.90
66		0.0000	11.734		11182	1.50	VV	?	10.60
67	DIELDRIN	0.0074	11.818	-0.032	19195	1.51	VV	?	5.40
68		0.0000	11.974		6299	1.53	VV	?	1.15
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Run #5
09-41
15091765

46		0.0000	8.485		14628	1.09	VV	?	6.20
47		0.0000	8.651		48954	1.11	VV	?	11.90
48		0.0000	8.925		32781	1.14	VV	?	7.90
49		0.0000	9.161		14552	1.17	VV	?	5.00
50		0.0000	9.250		5246	1.18	VV	?	
51	HEPT EP	0.0125	9.400	0.010	32429	1.20	VV	?	11.60
52		0.0000	9.635		13664	1.23	VV	?	8.20
53		0.0000	9.783		14128	1.25	VV	?	10.00
54		0.0000	9.882		13107	1.26	VV	?	6.70
55		0.0000	9.979		7846	1.28	VV	?	3.90
56		0.0000	10.086		20776	1.29	VV	?	8.80
57		0.0000	10.229		16648	1.31	VV	?	5.10
58		0.0000	10.425		30675	1.33	VV	?	10.20
59		0.0000	10.620		9454	1.36	VV	?	5.60
60		0.0000	10.675		6097	1.37	VV	?	2.70
61	A ENDO	0.0127	10.795	0.025	33741	1.38	VV	?	10.70
62		0.0000	10.944		11617	1.40	VV	?	5.30
63		0.0000	11.064		32348	1.41	VV	?	9.30
64		0.0000	11.284		19203	1.44	VV	?	7.70
65		0.0000	11.488		23140	1.47	VV	?	8.90
66		0.0000	11.734		11182	1.50	VV	?	10.60
67	DIELDRIN	0.0074	11.818	-0.032	19195	1.51	VV	?	5.40
68		0.0000	11.974		6299	1.53	VV	?	1.15
69	DDE	0.0202	12.223	0.093	54305	1.56	VV		11.75
70	ENDRIN	0.0116	12.614	-0.086	24330	1.61	VV	?	14.50
71		0.0000	12.862		23795	1.64	VV	?	14.70
72	B ENDO	0.0101	12.989	-0.151	23200	1.66	VV	?	2.70
73		0.0000	13.299		40533	1.70	VV	?	17.30
74		0.0000	13.666		13647	1.75	VV	?	7.20
75	DDD	0.0127	13.839	-0.061	24169	1.77	VV	?	11.90
76	END ALD	0.0088	14.062	0.052	17119	1.80	VV	?	9.90
77		0.0000	14.206		8892	1.82	VV	?	3.30
78		0.0000	14.360		24955	1.84	VV	?	8.90
79		0.0000	14.571		46295	1.86	VV		5.05
80		0.0000	14.878		18255	1.90	VV	?	11.80
81	ENDO SO4	0.0096	14.954	-0.086	19769	1.91	VV	?	
82		0.0000	15.274		14078	1.95	VV	?	6.60
83		0.0000	15.339		5662	1.96	VV	?	
84	DDT	0.0296	15.549	0.059	50987	1.99	VV		8.10
85		0.0000	15.807		25976	2.02	VV	?	4.90
86		0.0000	16.245		24046	2.08	VV	?	9.40
87		0.0000	16.631		27092	2.13	VV	?	9.40
88	ENDRIN K	0.0053	16.908	0.018	13252	2.16	VV	?	7.40
89		0.0000	17.241		14915	2.20	VV	?	18.60
90		0.0000	17.363		11877	2.22	VV	?	5.70
91		0.0000	17.540		10795	2.24	VV	?	6.50
92		0.0000	17.661		8483	2.26	VV	?	1.95
93		0.0000	17.959		14029	2.30	VV	?	20.00
94	METHOXY	0.0275	18.188	-0.092	18916	2.33	VV	?	13.80
95		0.0000	18.463		18294	2.36	VV	?	8.85
96		0.0000	18.765		16544	2.40	VV	?	9.50
97		0.0000	19.018		11446	2.43	VV	?	7.20
98		0.0000	19.322		29572	2.47	VV		5.85
99	SURROGATE	0.1890	19.627	-0.123	427542	2.51	VV		4.70
100		0.0000	21.729		53564	2.78	VV		5.30
101		0.0000	21.971		12974	2.81	VV	?	5.40
102		0.0000	22.307		16115	2.85	VV	?	16.35
103		0.0000	22.612		8971	2.89	VV	?	5.50
104		0.0000	22.843		9005	2.92	VV	?	9.30
105		0.0000	23.168		16903	2.96	VV	?	14.65
106		0.0000	23.407		13215	2.99	VV	?	8.90
107		0.0000	24.140		7923	3.09	VV	?	6.50
108		0.0000	24.421		6553	3.12	VV	?	5.50
109		0.0000	24.706		9421	3.16	VV	?	15.60
110		0.0000	25.026		5502	3.20	VV	?	7.60
111		0.0000	25.349		39777	3.24	VV		7.10
112		0.0000	25.624		8501	3.28	VV	?	2.20
113		0.0000	26.291		14392	3.36	VV	?	19.80
114		0.0000	26.756		12943	3.42	VV	?	20.81
115		0.0000	27.197		5729	3.48	VV	?	10.20
116		0.0000	27.360		7114	3.50	VV	?	7.05
117		0.0000	27.761		5020	3.55	VV	?	9.10
118		0.0000	28.044		6712	3.59	VV	?	6.05
119		0.0000	28.773		5239	3.68	VV	?	16.10
TOTALS:		0.4753		-0.463	1590700				

varian /sunnyvale calif p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-42 15091766

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/23/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 20

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.0
11104-28-2	Aroclor-1221	< 2.0
11141-16-5	Aroclor-1232	< 2.0
53469-21-9	Aroclor-1242	3.2
12672-29-6	Aroclor-1248	< 2.0
11097-69-1	Aroclor-1254	< 4.0
11096-82-5	Aroclor-1260	< 4.0

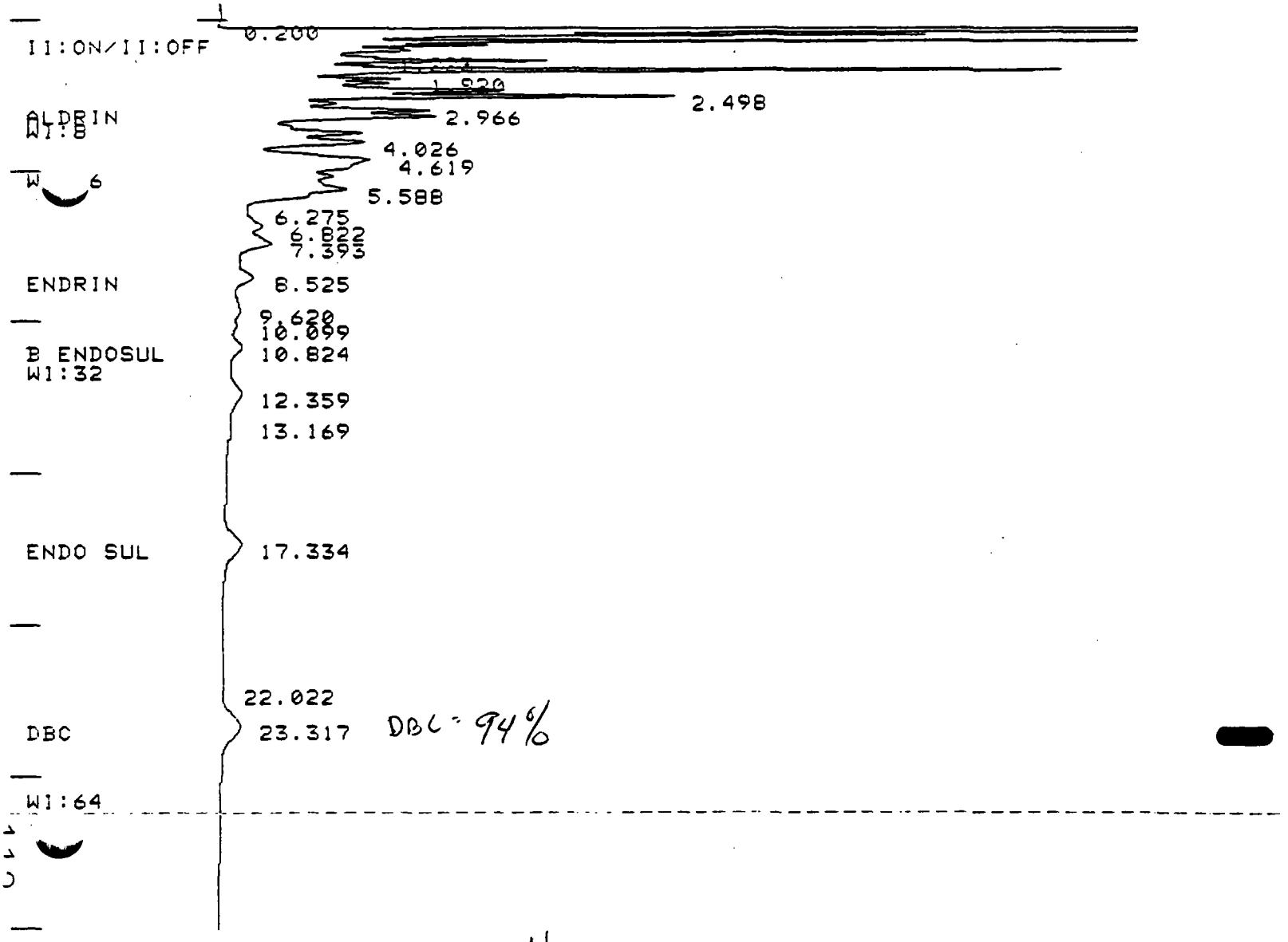
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4



1/20

TITLE: RUN # 27 08-42 1:54 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091766 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.303		112301	VB		4.80
2		0.0000	0.482		6427	BB		2.15
3		0.0000	0.682		15310	BV		2.40
4		0.0000	0.822		1930	VV		2.45
5		0.0000	0.929		747	VV	?	3.10
6		0.0000	0.991		909	VB	?	5.20
7		0.0000	1.223		663	BV	?	4.50
8		0.0000	1.327		3347	VV		3.85
		0.0000	1.497		695	VV	?	3.10
	A-BHC	0.0088	1.635	0.015	11562	VV		4.35
11		0.0000	1.920		1324	VV		4.55
12	G-BHC	0.0013	2.064	0.014	1212	VV		5.60
13	B-BHC	0.0091	2.304	-0.056	3092	VV		8.95
14		0.0000	2.498		5844	VV		5.75
15	D-BHC	0.0011	2.728	-0.012	654	VV		6.65
16	ALDRIN	0.0033	2.966	-0.044	2165	VV	?	7.50
17		0.0000	3.161		2373	VV	?	7.00

1/20

.076x 2.13 x 1 x 20 = 3.2

TITLE: RUN # 27 08-42 1:54 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091766 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.303		112301	VB		4.80
2		0.0000	0.482		6427	BB		2.15
3		0.0000	0.682		15310	BV		2.40
4		0.0000	0.822		1930	VV		2.45
5		0.0000	0.929		747	VV	?	3.10
6		0.0000	0.991		909	VB	?	5.20
7		0.0000	1.223		663	BV	?	4.50
8		0.0000	1.327		3347	VV		3.85
9		0.0000	1.497		695	VV	?	3.10
10	A-BHC	0.0088	1.635	0.015	11562	VV		4.35
11		0.0000	1.920		1324	VV		4.55
12	G-BHC	0.0013	2.064	0.014	1212	VV		5.60
13	B-BHC	0.0091	2.304	-0.056	3092	VV		8.95
14		0.0000	2.498		5844	VV		5.75
15	D-BHC	0.0011	2.728	-0.012	654	VV		6.65
16	ALDRIN	0.0033	2.966	-0.044	2188	VV	?	7.50
17		0.0000	3.161	2.13	2373	VV	?	7.00
18		0.0000	3.526		259	VV	?	7.00
19		0.0000	3.722		1384	VV		9.90
20		0.0000	4.026		1494	VV		13.20
21		0.0000	4.619		1664	VV	?	14.70
22		0.0000	5.152		1202	VV	?	14.15
23	A ENDOSUL	0.0048	5.588	-0.192	1471	VV	?	53.30
[illegible]		0.0000	6.822		278	VV		22.90
[illegible]	DIELDRIN	0.0018	7.393	0.283	452	VB	?	23.40
26	ENDRIN	0.0015	8.525	-0.105	252	BV		19.85
27		0.0000	9.620		106	VV	?	25.50
28	B ENDOSUL	0.0012	10.824	0.224	178	VB		24.65
29		0.0000	12.359		204	BV		35.90
30	ENDO SUL	0.0049	17.334	0.054	270	BB		41.55
31	DBC	0.0047	23.317	0.267	298	VB		51.00
TOTALS:		0.0425		0.448	180090			

DETECTED PKS: 36 REJECTED PKS: 5

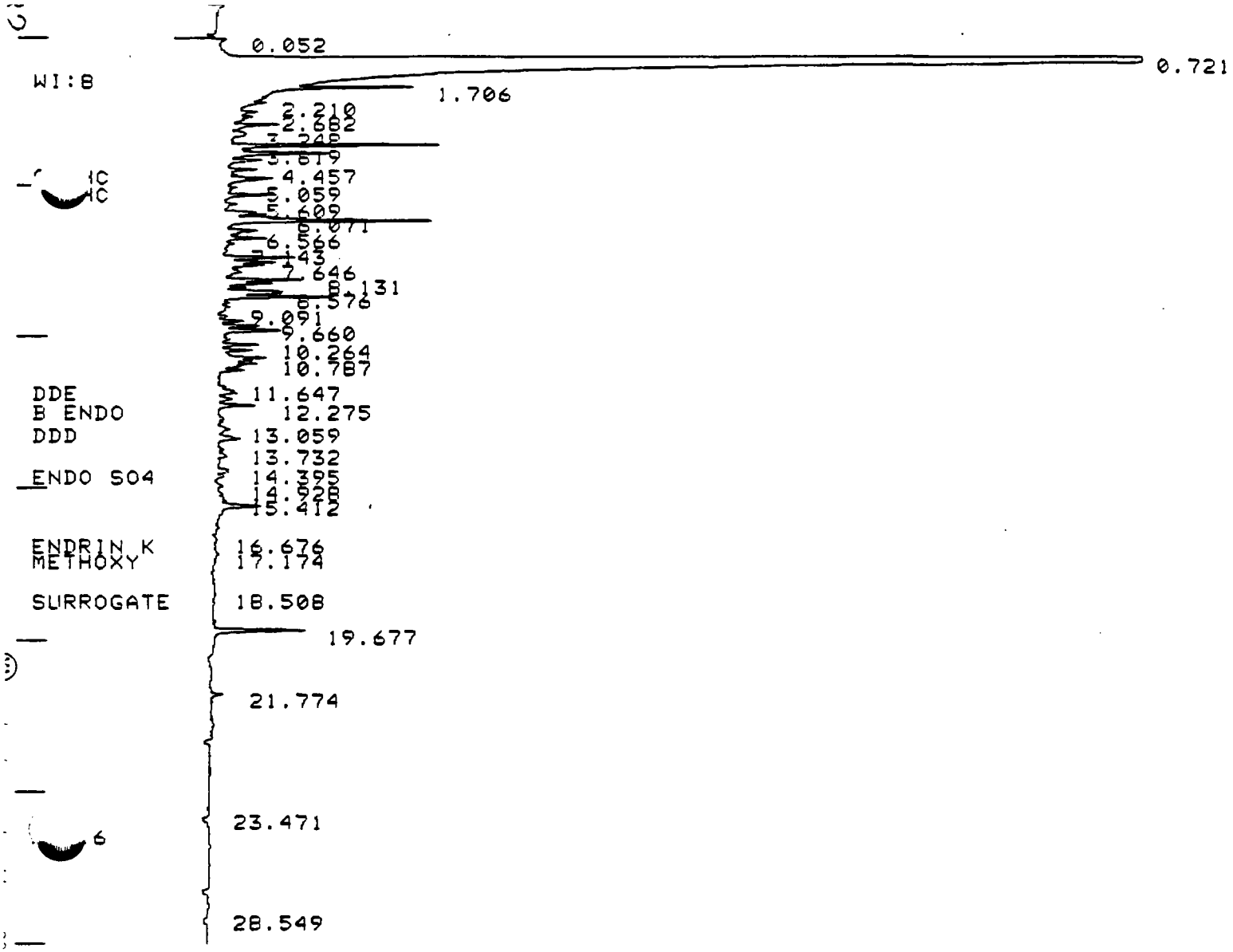
DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 39

RACK: 2 VIAL: 3 INJ: 1

SAVED FILE: P1201

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2



GC#6, SPB-5, 2ul injected

TITLE: RUN# 18 08-42 6:03 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091766 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3560	0.01	BB	?	3.10
2		0.0000	0.721		944325	0.09	BV		6.30
3		0.0000	0.900		273771	0.11	VV	?	20.70
4		0.0000	1.254		100438	0.16	VV	?	23.15
5		0.0000	1.706		44650	0.22	VV		4.60
6		0.0000	1.946		4949	0.25	VV	?	
7		0.0000	2.037		10853	0.26	VV	?	1.70
[illegible]		0.0000	2.210		12466	0.28	VV	?	4.85
[illegible]		0.0000	2.517		8619	0.32	VV	?	5.20
10		0.0000	2.682		5679	0.34	VV	?	5.50
11		0.0000	2.787		3752	0.35	VV	?	2.10
12		0.0000	2.953		11498	0.38	VV		4.15
13		0.0000	3.248		5047	0.41	VV	?	10.00
14		0.0000	3.312		4465	0.42	VV	?	6.30
15		0.0000	3.513		1656	0.45	VV	?	2.80
16	4-BHC	0.0070	3.649	-0.051	30241	0.46	VV	?	2.35
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

run #18
15091766
08-42

NO	NAME	UG/ML	(MIN)	OFFSET	COUNTS		CODE		(SEC)
1		0.0000	0.052		3560	0.01	BB	?	3.10
2		0.0000	0.721		944325	0.09	BV		6.30
3		0.0000	0.900		273771	0.11	VV	?	20.70
4		0.0000	1.254		100438	0.16	VV	?	23.15
5		0.0000	1.706		44650	0.22	VV		4.60
6		0.0000	1.946		4949	0.25	VV	?	
7		0.0000	2.037		10853	0.26	VV	?	1.70
8		0.0000	2.210		12466	0.28	VV	?	4.85
9		0.0000	2.517		8619	0.32	VV	?	5.20
10		0.0000	2.682		5679	0.34	VV	?	5.50
11		0.0000	2.787		3752	0.35	VV	?	2.10
12		0.0000	2.953		11498	0.38	VV		4.15
13		0.0000	3.248		5047	0.41	VV	?	10.00
14		0.0000	3.312		4465	0.42	VV	?	6.30
15		0.0000	3.513		1656	0.45	VV	?	2.80
16	A-BHC	0.0070	3.649	-0.051	30241	0.46	VV	?	2.35
17		0.0000	3.819		3402	0.48	VV	?	4.30
18		0.0000	3.921		18927	0.50	VV		4.75
19	B-BHC	0.0062	4.140	-0.210	8313	0.53	VV		4.75
20	G-BHC	0.0015	4.457	-0.053	5917	0.57	VV		4.05
21		0.0000	4.632		2277	0.59	VV	?	8.30
22		0.0000	4.759		13071	0.60	VV		6.55
23		0.0000	5.059		2161	0.64	VV		4.20
24	D-BHC	0.0003	5.133	-0.067	1018	0.65	VV	?	1.20
25		0.0000	5.310		8612	0.67	VV	?	2.15
26		0.0000	5.609		2458	0.71	VV		4.45
27		0.0000	5.877		4613	0.75	VV	?	4.20
28		0.0000	5.952		5559	0.76	VV	?	4.40
29		0.0000	6.071		6456	0.77	VV	?	4.90
30		0.0000	6.167		36396	0.78	VV		4.60
31		0.0000	6.495		6532	0.82	VV		5.45
32		0.0000	6.566		2307	0.83	VV	?	
33	HEPT	0.0034	6.749	0.089	7837	0.86	VV		4.10
34		0.0000	6.921		2142	0.88	VV		4.20
35		0.0000	7.392		11051	0.94	VV		4.20
36		0.0000	7.545		8078	0.96	VV		4.25
37		0.0000	7.646		6748	0.97	VV	?	4.80
38	ALDRIN	0.0018	7.874	0.044	6380	1.00	VV	?	15.80
39		0.0000	7.946		1484	1.01	VV	?	7.80
40		0.0000	8.131		12138	1.03	VV		4.30
41		0.0000	8.250		7901	1.05	VV	?	4.90
42		0.0000	8.378		3624	1.06	VV		4.15
43		0.0000	8.519		8922	1.08	VV	?	5.00
44		0.0000	8.576		7627	1.09	VV	?	5.10
45		0.0000	8.694		16110	1.10	VV		3.95
46		0.0000	8.888		1687	1.13	VV		3.65
47		0.0000	9.023		1668	1.15	VV		3.55
48	HEPT EP	0.0005	9.337	-0.053	1250	1.19	VV		4.55
49		0.0000	9.499		3505	1.21	VV		4.25
50		0.0000	9.660		5679	1.23	VV		4.05
51		0.0000	9.799		11537	1.24	VV		5.30
52		0.0000	10.082		2127	1.28	VV		6.10
53		0.0000	10.264		5554	1.30	VV		4.00
54		0.0000	10.451		4729	1.33	VV		4.35
55		0.0000	10.702		8664	1.36	VV	?	5.20
56	A ENDO	0.0017	10.787	0.017	4406	1.37	VV	?	2.90
57		0.0000	10.893		5262	1.38	VV	?	5.15
58		0.0000	10.982		2738	1.39	VV	?	4.70
59		0.0000	11.107		3300	1.41	VB		4.15
60		0.0000	11.647		1151	1.48	BV		4.85
61		0.0000	11.784		2282	1.50	VV	?	4.70
62	DIELDRIN	0.0008	11.857	0.007	2180	1.51	VV	?	4.40
63	DDE	0.0010	12.054	-0.076	2811	1.53	VV		5.70
64		0.0000	12.275		5708	1.56	VB		4.50
65	B ENDO	0.0011	13.059	-0.081	2616	1.66	BV		5.55
66		0.0000	13.381		4911	1.70	VV		7.35
67	DDD	0.0008	13.950	0.050	1551	1.77	VB	?	3.15
	END ALD	0.0009	14.395	0.385	1662	1.83	BV	?	4.40
69		0.0000	14.471		1466	1.84	VV	?	4.55
70		0.0000	14.617		1437	1.86	VB		4.15
71	ENDO SO4	0.0005	14.928	-0.112	1093	1.90	BV		6.95
72		0.0000	15.307		1506	1.94	VV		2.05
73	DDT	0.0050	15.597	0.107	8615	1.98	VB		6.20
74	SURROGATE	0.0070	19.677	-0.073	15770	2.50	BB		4.65
75		0.0000	21.774		2307	2.77	BB		5.10
76		0.0000	23.471		22216	2.98	BB	?	1:40.40

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number	
08-43	15091767

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/23/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 2

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.2
11104-28-2	Aroclor-1221	< 0.2
11141-16-5	Aroclor-1232	< 0.2
53469-21-9	Aroclor-1242	< 0.2
12672-29-6	Aroclor-1248	< 0.2
11097-69-1	Aroclor-1254	< 0.4
11096-82-5	Aroclor-1260	< 0.4

V_i = Volume of extract injected (ul)

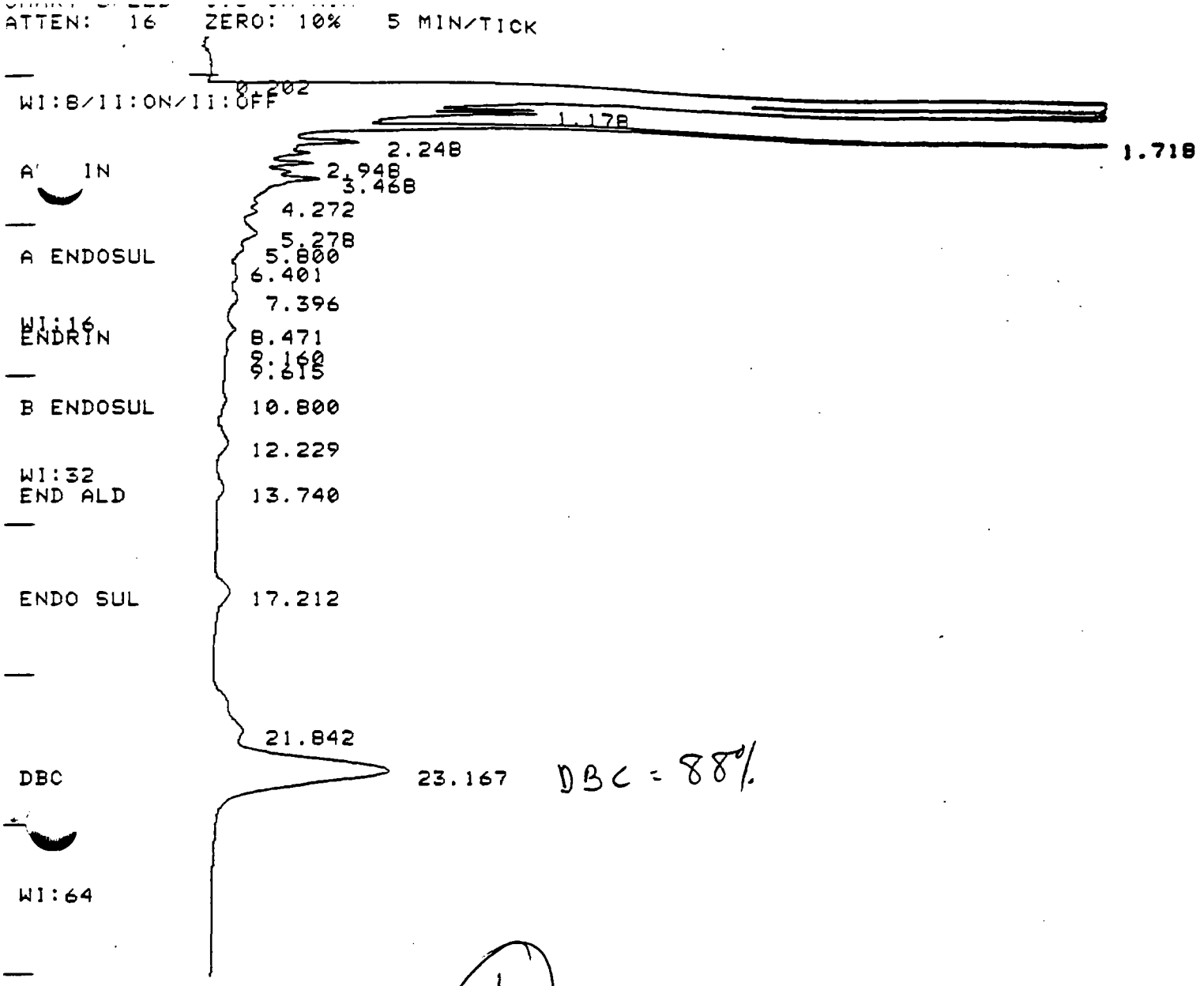
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/2

TITLE: RUN # 29 08-43 3:01 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091767 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.342		189409	VB	?	6.35
2		0.0000	0.482		38128	BB		2.20
3		0.0000	0.682		84824	BV		2.75
4		0.0000	0.822		17985	VB		2.50
5		0.0000	1.178		1612	BV		2.90
		0.0000	1.302		1949	VV		3.70
		0.0000	1.718		20619	VB		4.25
8	B-BHC	0.0031	2.248	-0.112	1048	BV		7.95
9	D-BHC	0.0008	2.604	-0.136	454	VB		5.10
10	ALDRIN	0.0010	2.948	-0.062	651	BV		6.95
11		0.0000	3.234		353	VV	?	9.10
12		0.0000	3.468		684	VV		9.85
13		0.0000	4.549		135	VB		8.10
14		0.0000	5.278		260	BV	?	16.60
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	VB		8.20

.172 x .36 x 1 x 2 = 2.20

TITLE: RUN #29 08-43 3:01 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091767 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.342		189409	VB	?	6.35
2		0.0000	0.482		38128	BB		2.20
3		0.0000	0.682		84824	BV		2.75
4		0.0000	0.822		17985	VB		2.50
5		0.0000	1.178		1612	BV		2.90
6		0.0000	1.302		1949	VV		3.70
7		0.0000	1.718		20619	VB		4.25
8	B-BHC	0.0031	2.248	-0.112	1048	BV		7.95
9	D-BHC	0.0008	2.604	-0.136	454	VB		5.10
10	ALDRIN	0.0010	2.948	-0.062	651	BV		6.95
11		0.0000	3.234	.36	353	VV	?	9.10
12		0.0000	3.468		884	VV		9.85
13		0.0000	4.549		135	VB		8.10
14		0.0000	5.278		260	BV	?	16.60
15	A ENDOSUL	0.0004	5.800	0.020	111	VB		8.20
16	DIELDRIN	0.0004	7.396	0.286	109	VB	?	19.05
17	ENDRIN	0.0007	8.471	-0.159	119	BV		20.45
18		0.0000	12.229		142	BB	?	31.25
19	ENDO SUL	0.0041	17.212	-0.068	226	BB		43.00
20		0.0000	21.842		459	BV	?	58.70
	DBC	0.0441	23.167	0.117	2779	VB		56.60
TOTALS:		0.0546		-0.114	362256			

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DETECTED PKS: 31 REJECTED PKS: 10

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 31

RACK: 2 VIAL: 5 INJ: 1

SAVED FILE: P1203

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

T E: RUN# 3:01 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091767 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.342		189409	0.11	VB	?	6.35
2		0.0000	0.482		38128	0.16	BB		2.20
3		0.0000	0.682		84824	0.23	BV		2.75

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-45 15091768

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/23/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 20

CAS Number		ug /PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.0
11104-28-2	Aroclor-1221	< 2.0
11141-16-5	Aroclor-1232	< 2.0
53469-21-9	Aroclor-1242	3.8
12672-29-6	Aroclor-1248	< 2.0
11097-69-1	Aroclor-1254	< 4.0
11096-82-5	Aroclor-1260	< 4.0

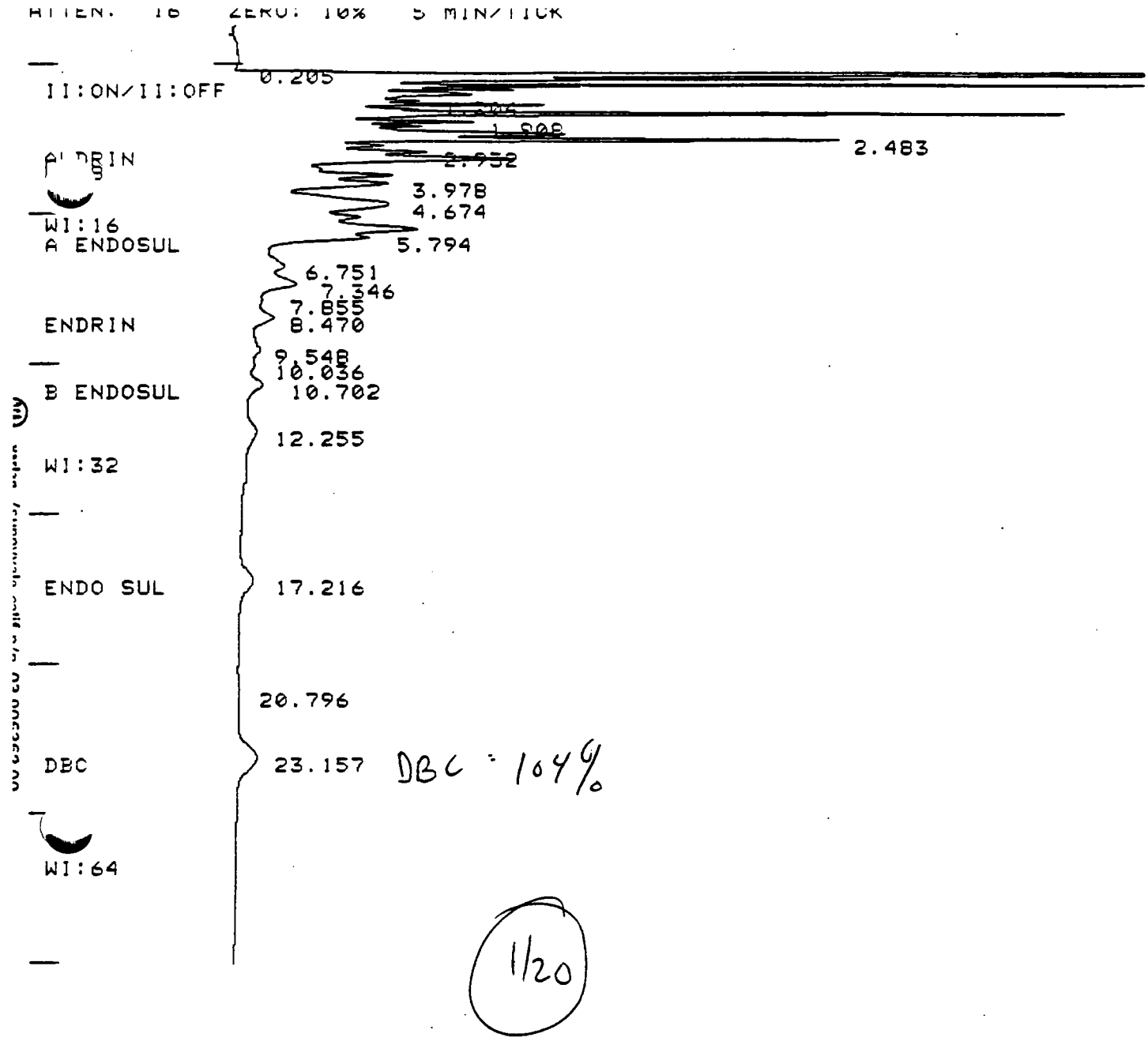
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA _____ 1000 _____ V_i 4 _____



1/20

TITLE: RUN # 30 08-45 3:34 7 NOV 85

CHANNEL NO: 2 SAMPLE: 1509176B METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.303		103225	VB		4.50
2		0.0000	0.481		6102	BB		2.15
3		0.0000	0.679		14549	BV		2.30
4		0.0000	0.919		1935	VV		2.40
5		0.0000	0.983		1401	VV	?	9.30
6		0.0000	1.204		723	VV		3.35
7		0.0000	1.321		2757	VV		3.40
8		0.0000	1.489		867	VV	?	3.60
9	A-BHC	0.0085	1.627	0.007	11181	VV		4.30
10		0.0000	1.908		1919	VV		4.30
11	G-BHC	0.0013	2.057	0.007	1172	VV		4.85
12	B-BHC	0.0104	2.282	-0.078	3515	VV		10.00
13		0.0000	2.483		7959	VV		5.65
14	D-BHC	0.0014	2.707	-0.033	824	VV		6.15
15	ALDRIN	0.0024	2.932	-0.078	1613	VV		7.75

119

.076 × 2.47 × 1 × 20 = 3.8

TITLE: RUN # 30 08-45 3:34 7 NOV 85

CHANNEL NO: 2 SAMPLE: 1509176B METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.303		103225	VB		4.50
2		0.0000	0.481		6102	BB		2.15
3		0.0000	0.679		14549	BV		2.30
4		0.0000	0.819		1936	VV		2.40
5		0.0000	0.983		1401	VV	?	9.30
6		0.0000	1.204		723	VV		3.35
7		0.0000	1.321		2757	VV		3.40
8		0.0000	1.489		867	VV	?	3.60
9	A-BHC	0.0085	1.627	0.007	11181	VV		4.30
10		0.0000	1.908		1919	VV		4.30
11	G-BHC	0.0013	2.057	0.007	1172	VV		4.85
12	B-BHC	0.0104	2.282	-0.078	3515	VV		10.00
13		0.0000	2.483		7959	VV		5.65
14	D-BHC	0.0014	2.707	-0.033	824	VV		6.15
15	ALDRIN	0.0024	2.932	-0.078 2.47	1618	VV		7.75
16		0.0000	3.144		3079	VV		9.40
17		0.0000	3.500		220	VV	?	6.30
18		0.0000	3.701		1405	VV		9.35
19		0.0000	3.978		1415	VV		12.50
20		0.0000	4.674		1608	VV	?	26.90
21		0.0000	5.113		1242	VV	?	15.60
22		0.0000	5.508		2195	VV	?	19.90
23	A ENDOSUL	0.0049	5.794	0.014	1485	VB	?	15.20
24		0.0000	6.751		301	BV		19.75
25	DIELDRIN	0.0022	7.346	0.236	537	VV		21.50
26	ENDRIN	0.0016	8.470	-0.160	272	VV		18.85
27		0.0000	9.548		118	VV	?	25.00
28	B ENDOSUL	0.0014	10.702	0.102	218	VB		22.90
29		0.0000	12.255		169	BB	?	37.35
30	ENDO SUL	0.0037	17.216	-0.064	207	BB		40.50
31	DBC	0.0052	23.157	0.107	327	VB		51.45
TOTALS:		0.0430		0.060	174546			

DETECTED PKS: 35 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

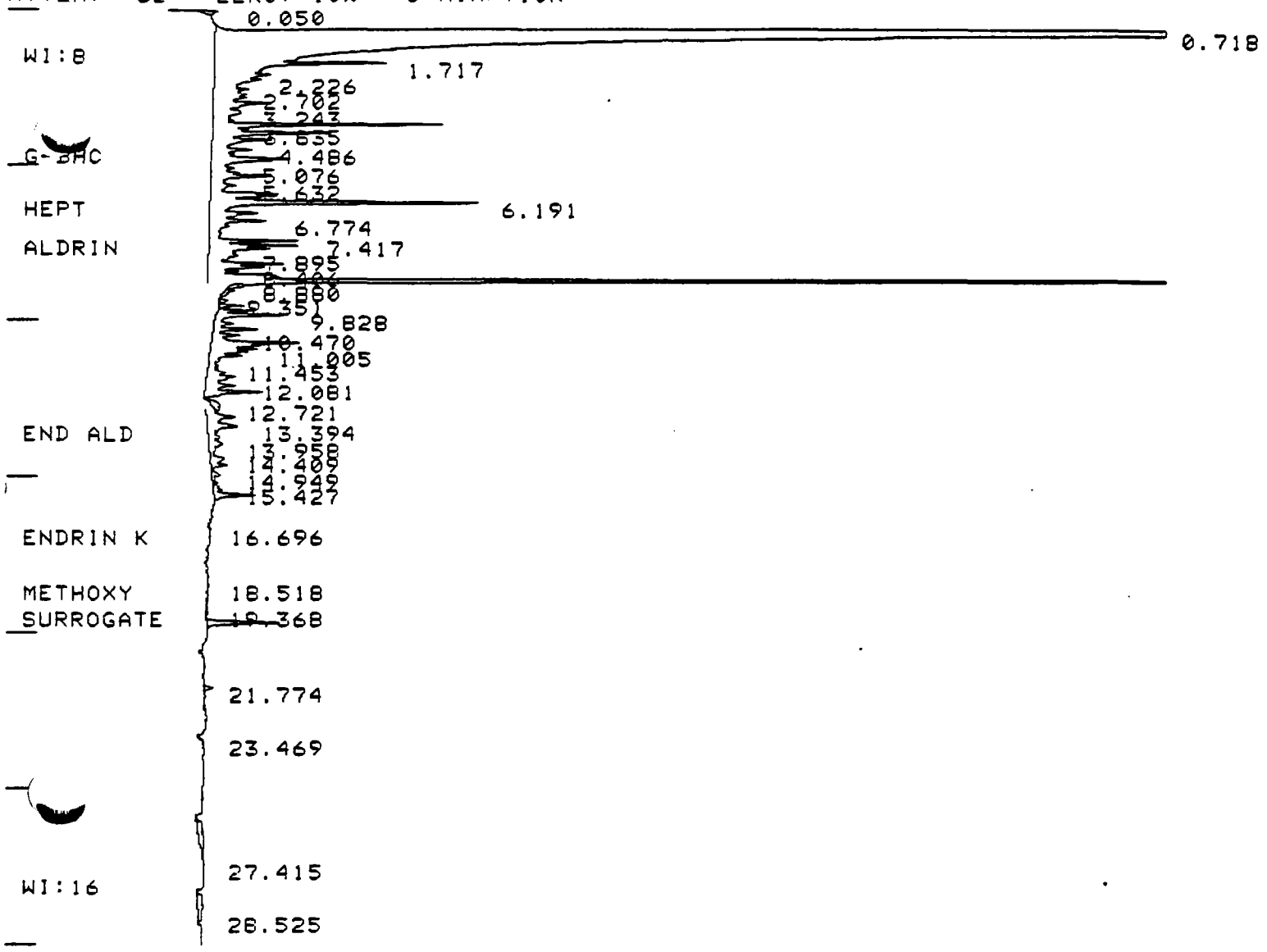
NOISE: 1.2 OFFSET: 48

RACK: 2 VIAL: 6 INJ: 1

SAVED FILE: P1204

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



TITLE: RUN# 19 08-45 6:43 8 NOV 85

CHANNEL NO: 1 SAMPLE: 1509176B METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.050		3102	0.01	BB	?	3.00
2		0.0000	0.718		817895	0.09	BV		6.35
3		0.0000	0.909		231300	0.12	VV	?	17.30
4		0.0000	1.263		74459	0.16	VV	?	25.60
5		0.0000	1.573		12682	0.20	VV	?	
		0.0000	1.717		36326	0.22	VV		4.80
		0.0000	1.893		5161	0.24	VV	?	
		0.0000	1.981		4935	0.25	VV	?	0.90
9		0.0000	2.063		13912	0.26	VV	?	6.25
10		0.0000	2.226		14715	0.29	VV	?	15.70
11		0.0000	2.538		10204	0.33	VV	?	6.20
12		0.0000	2.702		6642	0.35	VV	?	5.90
13		0.0000	2.806		6745	0.36	VV	?	3.90
14		0.0000	2.972		15275	0.38	VV	?	5.50
15		0.0000	3.243		5014	0.42	VV	?	7.60

Run # 19
1509 1768
08-45

NO	NAME	UG/ML	(MIN)	OFFSET	COUNTS		CODE		(SEC)
1		0.0000	0.050		3102	0.01	BB	?	3.00
2		0.0000	0.718		817895	0.09	BV		6.35
3		0.0000	0.909		231300	0.12	VV	?	17.30
4		0.0000	1.263		74459	0.16	VV	?	25.60
5		0.0000	1.573		12682	0.20	VV	?	
6		0.0000	1.717		36326	0.22	VV		4.80
7		0.0000	1.893		5161	0.24	VV	?	
		0.0000	1.981		4935	0.25	VV	?	0.90
		0.0000	2.063		13912	0.26	VV	?	6.25
10		0.0000	2.226		14715	0.29	VV	?	15.70
11		0.0000	2.538		10204	0.33	VV	?	6.20
12		0.0000	2.702		6642	0.35	VV	?	5.90
13		0.0000	2.806		6745	0.36	VV	?	3.90
14		0.0000	2.972		15275	0.38	VV	?	5.50
15		0.0000	3.243		5014	0.42	VV	?	7.60
16		0.0000	3.272		5577	0.42	VV	?	
17		0.0000	3.445		2512	0.44	VV	?	3.00
18		0.0000	3.545		3437	0.45	VV	?	4.75
19	A-BHC	0.0076	3.672	-0.028	33035	0.47	VV		3.90
20		0.0000	3.835		4507	0.49	VV	?	4.20
21		0.0000	3.946		22526	0.51	VV		4.75
22	B-BHC	0.0111	4.161	-0.189	14952	0.53	VV		5.25
23	G-BHC	0.0024	4.486	-0.024	9306	0.58	VV		5.55
24		0.0000	4.626		3351	0.59	VV	?	3.90
25		0.0000	4.776		11347	0.61	VV	?	6.30
26		0.0000	4.806		10584	0.62	VV	?	9.20
27		0.0000	5.076		5894	0.65	VV	?	5.20
28	D-BHC	0.0014	5.226	0.026	4575	0.67	VV	?	5.60
29		0.0000	5.330		12162	0.68	VV		4.85
30		0.0000	5.481		1309	0.70	VV	?	
31		0.0000	5.632		8050	0.72	VV		8.05
32		0.0000	5.900		9093	0.76	VV	?	3.80
33		0.0000	5.970		9523	0.77	VV	?	5.50
34		0.0000	6.191		53914	0.79	VV		4.95
35		0.0000	6.369		2257	0.82	VV	?	
36		0.0000	6.522		12675	0.84	VV		5.50
37	HEPT	0.0051	6.774	0.114	11601	0.87	VV		4.25
		0.0000	6.948		5443	0.89	VV	?	5.05
		0.0000	7.166		3659	0.92	VV	?	7.45
40		0.0000	7.417		14092	0.95	VV		4.05
41		0.0000	7.569		12268	0.97	VV		4.00
42		0.0000	7.663		10384	0.98	VV	?	5.50
43	ALDRIN	0.0010	7.786	-0.044	3509	1.00	VV	?	2.40
44		0.0000	7.895		9913	1.01	VV	?	5.25
45		0.0000	8.157		12245	1.05	VV		4.50
46		0.0000	8.272		9341	1.06	VV	?	5.10
47		0.0000	8.406		4789	1.08	VV		4.70
48		0.0000	8.541		8408	1.10	VV	?	5.00
49		0.0000	8.597		8528	1.10	VV	?	3.70
50		0.0000	8.710		282453	1.12	VV	?	1.85
51	HEPT EP	0.0005	9.351	-0.039	1419	1.20	T		6.15
52		0.0000	9.520		3351	1.22	T		3.95
53		0.0000	9.680		5582	1.24	T		4.65
54		0.0000	9.828		12650	1.26	T		5.40
55		0.0000	10.096		3635	1.30	T		5.90
56		0.0000	10.284		7004	1.32	T		4.30
57		0.0000	10.470		4506	1.35	T		4.35
58		0.0000	10.717		15987	1.38	T		4.70
59	A ENDO	0.0022	10.804	0.034	5804	1.39	T	?	2.10
60		0.0000	10.910		7105	1.40	T	?	4.60
61		0.0000	11.005		5178	1.41	T	?	4.85
62		0.0000	11.122		5895	1.43	T		4.70
63		0.0000	11.232		2350	1.44	T	?	13.10
64		0.0000	11.453		2000	1.47	T		3.90
65		0.0000	11.665		4811	1.50	T		4.70
66		0.0000	11.798		4587	1.51	T	?	4.00
67	DIELDRIN	0.0013	11.844	-0.006	3447	1.52	T	?	8.40
	DDE	0.0029	12.081	-0.049	7856	1.55	T		5.35
		0.0000	12.290		12564	1.58	T		4.10
70	ENDRIN	0.0019	12.721	0.021	4079	1.63	T	?	13.80
71		0.0000	12.814		1315	1.65	T		4.10
72	B ENDO	0.0042	13.082	-0.058	9750	1.68	VV		12.45
73		0.0000	13.394		10966	1.72	VV		10.90
74	DDD	0.0024	13.739	-0.161	4565	1.76	VV		5.95
75	END ALD	0.0020	13.958	-0.052	3946	1.79	VV		10.00
76		0.0000	14.409		5232	1.85	VV	?	8.40
77		0.0000	14.675		[illegible]	1.86	VV	?	

Run #19
1509/768
08-45

32		0.0000	5.900		9093	0.76	VV	?	3.80
33		0.0000	5.970		9523	0.77	VV	?	5.50
34		0.0000	6.191		53914	0.79	VV		4.95
35		0.0000	6.369		2257	0.82	VV	?	
36		0.0000	6.522		12675	0.84	VV		5.50
37	HEPT	0.0051	6.774	0.114	11601	0.87	VV		4.25
38		0.0000	6.948		5443	0.89	VV	?	5.05
		0.0000	7.166		3659	0.92	VV	?	7.45
		0.0000	7.417		14092	0.95	VV		4.05
41		0.0000	7.569		12268	0.97	VV		4.00
42		0.0000	7.663		10384	0.98	VV	?	5.50
43	ALDRIN	0.0010	7.786	-0.044	3509	1.00	VV	?	2.40
44		0.0000	7.895		9913	1.01	VV	?	5.25
45		0.0000	8.157		12245	1.05	VV		4.50
46		0.0000	8.272		9341	1.06	VV	?	5.10
47		0.0000	8.406		4789	1.08	VV		4.70
48		0.0000	8.541		8408	1.10	VV	?	5.00
49		0.0000	8.597		8528	1.10	VV	?	3.70
50		0.0000	8.710		282453	1.12	VV	?	1.85
51	HEPT EP	0.0005	9.351	-0.039	1419	1.20	T		6.15
52		0.0000	9.520		3351	1.22	T		3.95
53		0.0000	9.680		5582	1.24	T		4.65
54		0.0000	9.828		12650	1.26	T		5.40
55		0.0000	10.096		3635	1.30	T		5.90
56		0.0000	10.284		7004	1.32	T		4.30
57		0.0000	10.470		4506	1.35	T		4.35
58		0.0000	10.717		15987	1.38	T		4.70
59	A ENDO	0.0022	10.804	0.034	5804	1.39	T	?	2.10
60		0.0000	10.910		7105	1.40	T	?	4.60
61		0.0000	11.005		5178	1.41	T	?	4.85
62		0.0000	11.122		5895	1.43	T		4.70
63		0.0000	11.232		2350	1.44	T	?	13.10
64		0.0000	11.453		2000	1.47	T		3.90
65		0.0000	11.665		4811	1.50	T		4.70
66		0.0000	11.798		4587	1.51	T	?	4.00
67	DIELDRIN	0.0013	11.844	-0.006	3447	1.52	T	?	8.40
68	DDE	0.0029	12.081	-0.049	7856	1.55	T		5.35
		0.0000	12.290		12564	1.58	T		4.10
	ENDRIN	0.0019	12.721	0.021	4079	1.63	T	?	13.80
71		0.0000	12.814		1315	1.65	T		4.10
72	B ENDO	0.0042	13.082	-0.058	9750	1.68	VV		12.45
73		0.0000	13.394		10966	1.72	VV		10.90
74	DDD	0.0024	13.739	-0.161	4565	1.76	VV		5.95
75	END ALD	0.0020	13.958	-0.052	3946	1.79	VV		10.00
76		0.0000	14.409		5232	1.85	VV	?	8.40
77		0.0000	14.475		1268	1.86	VV	?	
78		0.0000	14.624		3456	1.88	VV		6.80
79	ENDO SO4	0.0010	14.949	-0.091	2157	1.92	VV	?	9.20
80		0.0000	15.326		1850	1.97	VV	?	4.00
81	DDT	0.0008	15.427	-0.063	1459	1.98	VV	?	3.20
82		0.0000	15.609		8132	2.01	VB		6.90
83	SURROGATE	0.0058	19.681	-0.069	13161	2.53	VB		4.80
84		0.0000	21.774		1714	2.80	BB		4.75
85		0.0000	27.415		7905	3.52	BB	?	12.30
86		0.0000	28.525		5340	3.66	BB	?	
TOTALS:		0.0536		-0.678	2097610				

DETECTED PKS: 94 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 27.9 OFFSET: -267

RACK: 2 VIAL: 4 INJ: 1

S TD FILE: P764

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number	
08-46	15091769

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/24/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 20

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	<2.0
11104-28-2	Aroclor-1221	<2.0
11141-16-5	Aroclor-1232	<2.0
53469-21-9	Aroclor-1242	3.4
12672-29-6	Aroclor-1248	<2.0
11097-69-1	Aroclor-1254	<4.0
11096-82-5	Aroclor-1260	<4.0

V_i = Volume of extract injected (ul)

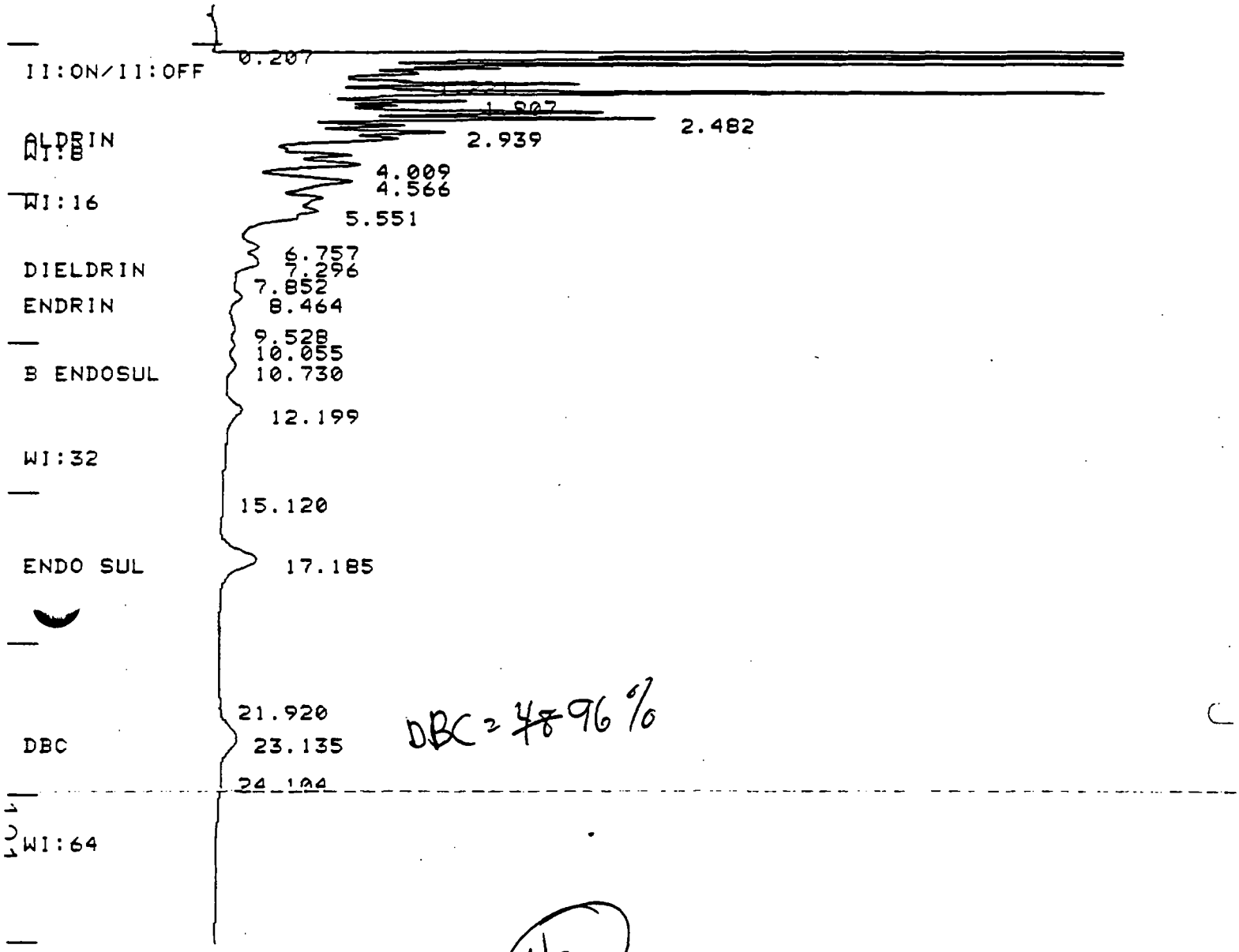
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CH[illegible] SPEED 0.5 CM/MIN
A[illegible]N: 16 ZERO: 10% 5 MIN/TICK



DBC = ~~48~~ 96 %

1/20

68-46

TITLE: RUN # 3) 4:07 7 NOV 85

CH[illegible]NEL NO: 2 SAMPLE: 15091769 METHOD: 2A PP-1

PEA[illegible] NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.307		115317	VB		4.65
2		0.0000	0.482		11500	BB		2.20
3		0.0000	0.679		17832	BV		2.35
4		0.0000	0.818		1941	VV		2.25
5		0.0000	0.918		793	VV	?	2.80
[illegible]		0.0000	0.985		945	VV	?	[illegible]

08-46 1242 = 2.37 Ht. x .072 µg/mL Ht x 1 mL x 20 = ~~4.7~~ 3.4 µg KS

TITLE: RUN # 31 4:07 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091769 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.307		115317	VB		4.65
2		0.0000	0.482		11300	BB		2.20
3		0.0000	0.679		17832	BV		2.35
4		0.0000	0.818		1941	VV		2.25
5		0.0000	0.918		793	VV	?	2.80
6		0.0000	0.985		945	VV	?	4.45
7		0.0000	1.221		1094	VV	?	4.30
8		0.0000	1.321		3776	VV		4.00
9		0.0000	1.491		1391	VV	?	3.30
10	A-BHC	0.0093	1.627	0.007	12223	VV		4.30
11		0.0000	1.907		2250	VV		4.25
12	G-BHC	0.0013	2.053	0.003	1248	VV		4.65
13	B-BHC	0.0136	2.270	-0.090	4614	VV		6.80
14		0.0000	2.482		5506	VV		5.40
15	D-BHC	0.0029	2.707	-0.033	1653	VV		6.30
16	ALDRIN	0.0036	2.939	-0.071	2397	VV		7.75
17		0.0000	3.147		1768	VV	?	10.70
18		0.0000	3.495		162	VV	?	6.30
19		0.0000	3.694		1224	VV		9.50
20		0.0000	4.009		1446	VV		12.50
21		0.0000	4.566		1426	VV	?	23.30
22		0.0000	5.125		1059	VV	?	14.20
23		0.0000	5.551		1059	VV	?	15.40
24	A ENDOSUL	0.0025	5.769	-0.011	760	VV	?	2.00
25		0.0000	6.757		269	VV		17.50
26	DIELDRIN	0.0013	7.296	0.186	313	VV	?	25.90
27	ENDRIN	0.0008	8.464	-0.166	140	VB		18.15
	B ENDOSUL	0.0009	10.730	0.130	145	VB		21.80
		0.0000	12.199		247	BB	?	35.45
30	ENDO SUL	0.0101	17.185	-0.095	559	BB		41.05
31	DBC	0.0048	23.135	0.085	302	VV		51.20
TOTALS:		0.0511		-0.055	195159			

H= ~~2.50~~ 2.37 KS

DETECTED PKS: 39 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 42

RACK: 2 VIAL: 7 INJ: 1

SAVED FILE: P1205

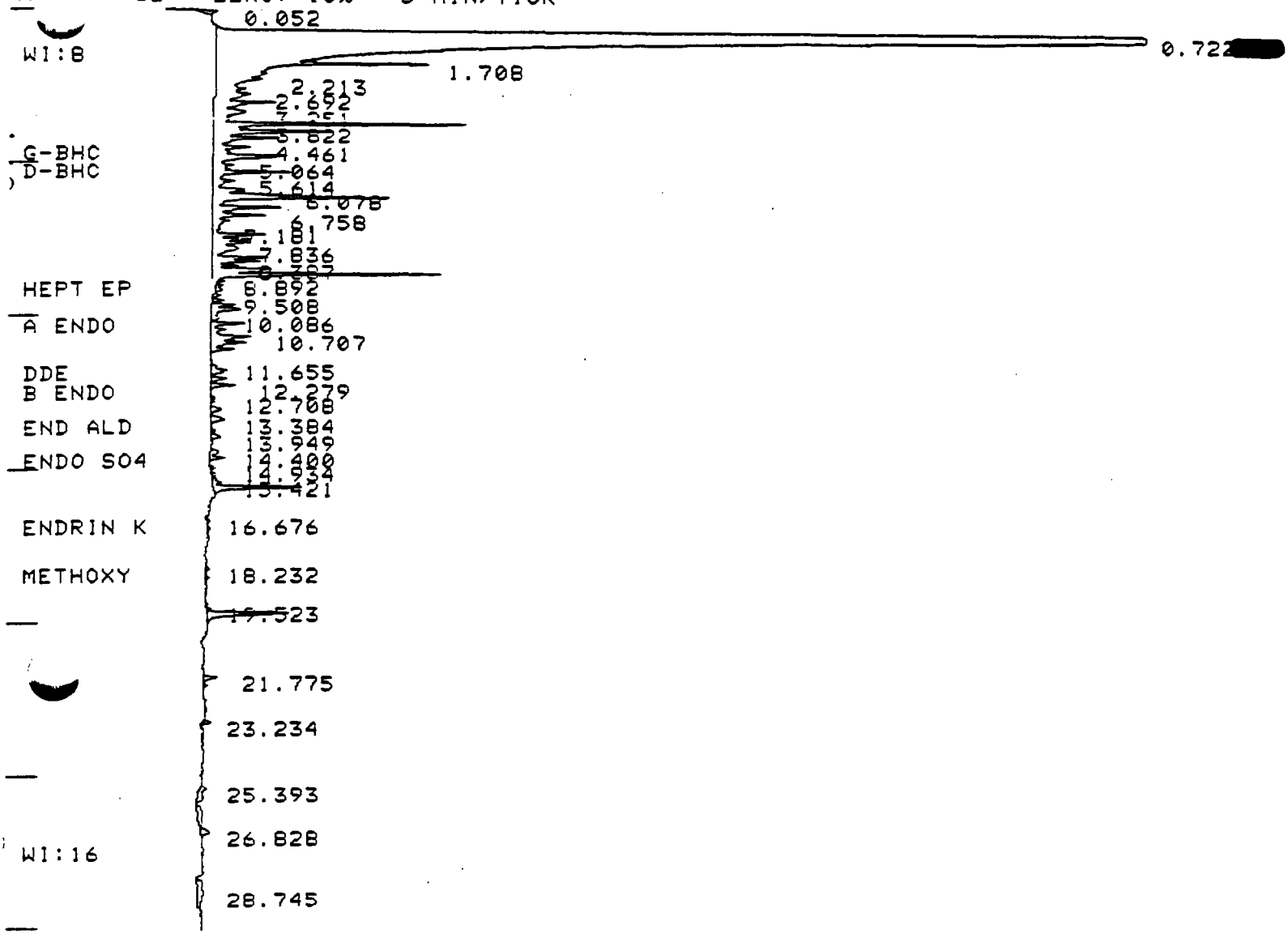
NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 31 08-46 4:07 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091769 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE	W1/2 (SEC)
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]

CHART SPEED 0.5 CM/MIN
ATTN: 32 ZERO: 10% 5 MIN/TICK



TITLE: RUN# 20 08-46 7:20 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091769 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
		0.0000	0.052		3323	0.01	BB	?	3.10
		0.0000	0.722		975703	0.09	BV		6.35
		0.0000	0.912		306779	0.12	VV	?	15.80
4		0.0000	1.257		107870	0.16	VV	?	26.60
5		0.0000	1.708		43950	0.22	VV		4.55
6		0.0000	1.882		6549	0.24	VV	?	
7		0.0000	1.950		5030	0.25	VV	?	
8		0.0000	2.045		14204	0.26	VV	?	3.40
9		0.0000	2.213		14800	0.28	VV	?	4.15
10		0.0000	2.524		9827	0.32	VV	?	5.70

Run #20
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1		0.0000	0.052		3323	0.01	BB	? 3.10
2		0.0000	0.722		975703	0.09	BV	6.35
3		0.0000	0.912		306779	0.12	VV	? 15.80
4		0.0000	1.257		107870	0.16	VV	? 26.60
5		0.0000	1.708		43950	0.22	VV	4.55
6		0.0000	1.882		6549	0.24	VV	?
7		0.0000	1.950		5030	0.25	VV	?
		0.0000	2.045		14204	0.26	VV	? 3.40
		0.0000	2.213		14800	0.28	VV	? 4.15
		0.0000	2.524		9827	0.32	VV	? 5.70
11		0.0000	2.692		8010	0.34	VV	? 6.60
12		0.0000	2.767		4689	0.35	VV	?
13		0.0000	2.958		14146	0.38	VV	5.60
14		0.0000	3.251		10620	0.41	VV	12.00
15		0.0000	3.431		1999	0.44	VV	? 2.50
16		0.0000	3.516		2427	0.45	VV	? 2.20
17	A-BHC	0.0084	3.654	-0.046	36336	0.47	VV	3.95
18		0.0000	3.822		4244	0.49	VV	? 3.90
19		0.0000	3.927		21917	0.50	VV	? 2.90
20	B-BHC	0.0103	4.145	-0.205	13847	0.53	VV	4.70
21	G-BHC	0.0019	4.461	-0.049	7233	0.57	VV	5.05
22		0.0000	4.627		3155	0.59	VV	? 6.10
23		0.0000	4.764		18228	0.61	VV	? 5.40
24		0.0000	5.064		4414	0.65	VV	? 5.20
25	D-BHC	0.0006	5.201	0.001	2091	0.66	VV	? 2.90
26		0.0000	5.312		13346	0.68	VV	? 2.50
27		0.0000	5.614		5768	0.72	VV	5.65
28		0.0000	5.886		3863	0.75	VV	? 4.30
29		0.0000	5.957		4152	0.76	VV	? 5.55
30		0.0000	6.078		6877	0.78	VV	? 4.30
31		0.0000	6.170		33942	0.79	VV	5.30
32		0.0000	6.501		13097	0.83	VV	4.45
33	HEPT	0.0041	6.758	0.098	9497	0.86	VV	4.45
34		0.0000	6.931		2727	0.88	VV	? 5.55
35		0.0000	7.018		1524	0.90	VV	? 4.95
36		0.0000	7.147		1026	0.91	VV	? 3.70
37		0.0000	7.396		8768	0.94	VV	4.40
38		0.0000	7.551		5738	0.96	VV	4.60
		0.0000	7.653		5849	0.98	VV	5.45
	ALDRIN	0.0030	7.836	0.006	10328	1.00	VV	? 11.70
41		0.0000	8.139		8661	1.04	VV	4.45
42		0.0000	8.257		7115	1.05	VV	4.80
43		0.0000	8.387		3725	1.07	VV	4.25
44		0.0000	8.521		13663	1.09	VV	8.10
45		0.0000	8.699		34766	1.11	VV	3.90
46		0.0000	9.029		1158	1.15	T	5.45
47		0.0000	9.169		1421	1.17	T	? 5.35
48	HEPT EP	0.0007	9.508	0.118	1763	1.21	VV	4.05
49		0.0000	9.664		3655	1.23	VV	4.45
50		0.0000	9.822		6175	1.25	VV	5.65
51		0.0000	10.086		1950	1.29	VV	? 5.40
52		0.0000	10.270		5000	1.31	VV	4.05
53		0.0000	10.460		2450	1.34	VV	4.25
54		0.0000	10.707		7551	1.37	VV	4.90
55	A ENDO	0.0009	10.795	0.025	2406	1.38	VV	? 1.50
56		0.0000	10.899		6559	1.39	VV	? 2.70
57		0.0000	11.113		3179	1.42	VB	4.00
58		0.0000	11.786		2285	1.50	VV	? 4.30
59	DIELDRIN	0.0006	11.862	0.012	1526	1.51	VV	? 4.50
60	DDE	0.0011	12.066	-0.064	2885	1.54	VV	5.20
61		0.0000	12.279		4164	1.57	VV	4.45
62	B ENDO	0.0011	13.059	-0.081	2595	1.67	VV	? 4.15
63		0.0000	13.384		3437	1.71	VV	8.05
64	DDD	0.0010	13.949	0.049	1894	1.78	VB	6.80
65	END ALD	0.0011	14.400	0.390	2211	1.84	BV	9.20
66		0.0000	14.619		2384	1.87	VB	4.30
67	ENDO SO4	0.0005	14.934	-0.106	1067	1.91	BV	8.10
68		0.0000	15.320		1574	1.96	VV	? 4.50
	DDT	0.0007	15.421	-0.069	1260	1.97	VV	? 6.20
		0.0000	15.600		15608	1.99	VB	? 3.00
71	ENDRIN K	0.0004	16.676	-0.214	1086	2.13	BV	8.45
72	METHOXY	0.0015	18.232	-0.048	1017	2.33	BV	5.80
73	SURROGATE	0.0078	19.687	-0.063	17632	2.51	VB	6.30
74		0.0000	21.775		3047	2.78	BV	5.75
75		0.0000	23.234		1799	2.96	BB	4.80
76		0.0000	25.393		1779	3.24	BV	5.95
77		0.0000	25.683		2035	3.28	VB	4.70

run #20
1509/769
08-46

24		0.0000	5.064		4414	0.65	VV	?	5.20
25	D-BHC	0.0006	5.201	0.001	2091	0.66	VV	?	2.90
26		0.0000	5.312		13346	0.68	VV	?	2.50
27		0.0000	5.614		5768	0.72	VV		5.65
28		0.0000	5.886		3863	0.75	VV	?	4.30
29		0.0000	5.957		4152	0.76	VV	?	5.55
30		0.0000	6.078		6877	0.78	VV	?	4.30
[illegible]		0.0000	6.170		33942	0.79	VV		5.30
[illegible]		0.0000	6.501		13097	0.83	VV		4.45
[illegible]	HEPT	0.0041	6.758	0.098	9497	0.86	VV		4.45
34		0.0000	6.931		2727	0.88	VV	?	5.55
35		0.0000	7.018		1524	0.90	VV	?	4.95
36		0.0000	7.147		1026	0.91	VV	?	3.70
37		0.0000	7.396		8768	0.94	VV		4.40
38		0.0000	7.551		5738	0.96	VV		4.60
39		0.0000	7.653		5849	0.98	VV		5.45
40	ALDRIN	0.0030	7.836	0.006	10328	1.00	VV	?	11.70
41		0.0000	8.139		8661	1.04	VV		4.45
42		0.0000	8.257		7115	1.05	VV		4.80
43		0.0000	8.387		3725	1.07	VV		4.25
44		0.0000	8.521		13663	1.09	VV		8.10
45		0.0000	8.699		34766	1.11	VV		3.90
46		0.0000	9.029		1158	1.15	T		5.45
47		0.0000	9.169		1421	1.17	T	?	5.35
48	HEPT EP	0.0007	9.508	0.118	1763	1.21	VV		4.05
49		0.0000	9.664		3655	1.23	VV		4.45
50		0.0000	9.822		6175	1.25	VV		5.65
51		0.0000	10.086		1950	1.29	VV	?	5.40
52		0.0000	10.270		5000	1.31	VV		4.05
53		0.0000	10.460		2450	1.34	VV		4.25
54		0.0000	10.707		7551	1.37	VV		4.90
55	A ENDO	0.0009	10.795	0.025	2406	1.38	VV	?	1.50
56		0.0000	10.899		6559	1.39	VV	?	2.70
57		0.0000	11.113		3179	1.42	VB		4.00
58		0.0000	11.786		2285	1.50	VV	?	4.30
59	DIELDRIN	0.0006	11.862	0.012	1526	1.51	VV	?	4.50
60	DDE	0.0011	12.066	-0.064	2885	1.54	VV		5.20
61		0.0000	12.279		4164	1.57	VV		4.45
[illegible]	B ENDO	0.0011	13.059	-0.081	2595	1.67	VV	?	4.15
[illegible]		0.0000	13.384		3437	1.71	VV		8.05
64	DDD	0.0010	13.949	0.049	1894	1.78	VB		6.80
65	END ALD	0.0011	14.400	0.390	2211	1.84	BV		9.20
66		0.0000	14.619		2384	1.87	VB		4.30
67	ENDO SO4	0.0005	14.934	-0.106	1067	1.91	BV		8.10
68		0.0000	15.320		1574	1.96	VV	?	4.50
69	DDT	0.0007	15.421	-0.069	1260	1.97	VV	?	6.20
70		0.0000	15.600		15608	1.99	VB	?	3.00
71	ENDRIN K	0.0004	16.676	-0.214	1086	2.13	BV		8.45
72	METHOXY	0.0015	18.232	-0.048	1017	2.33	BV		5.80
73	SURROGATE	0.0078	19.687	-0.063	17632	2.51	VB		6.30
74		0.0000	21.775		3047	2.78	BV		5.75
75		0.0000	23.234		1799	2.96	BB		4.80
76		0.0000	25.393		1779	3.24	BV		5.95
77		0.0000	25.683		2039	3.28	VB		4.70
78		0.0000	26.828		6909	3.42	BB	?	13.65
79		0.0000	28.745		6231	3.67	BB	?	17.90
TOTALS:		0.0457		-0.246	1963520				

DETECTED PKS: 91 REJECTED PKS: 12

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 27.9 OFFSET: -237

RACK: 2 VIAL: 5 INJ: 1

S[illegible] FILE: P765

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number	
08-48	15091771

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/24/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 20

CAS Number		ug /PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.0
11104-28-2	Aroclor-1221	< 2.0
11141-16-5	Aroclor-1232	< 2.0
53469-21-9	Aroclor-1242	3.4
12672-29-6	Aroclor-1248	< 2.0
11097-69-1	Aroclor-1254	< 4.0
11096-82-5	Aroclor-1260	< 4.0

V_i = Volume of extract injected (ul)

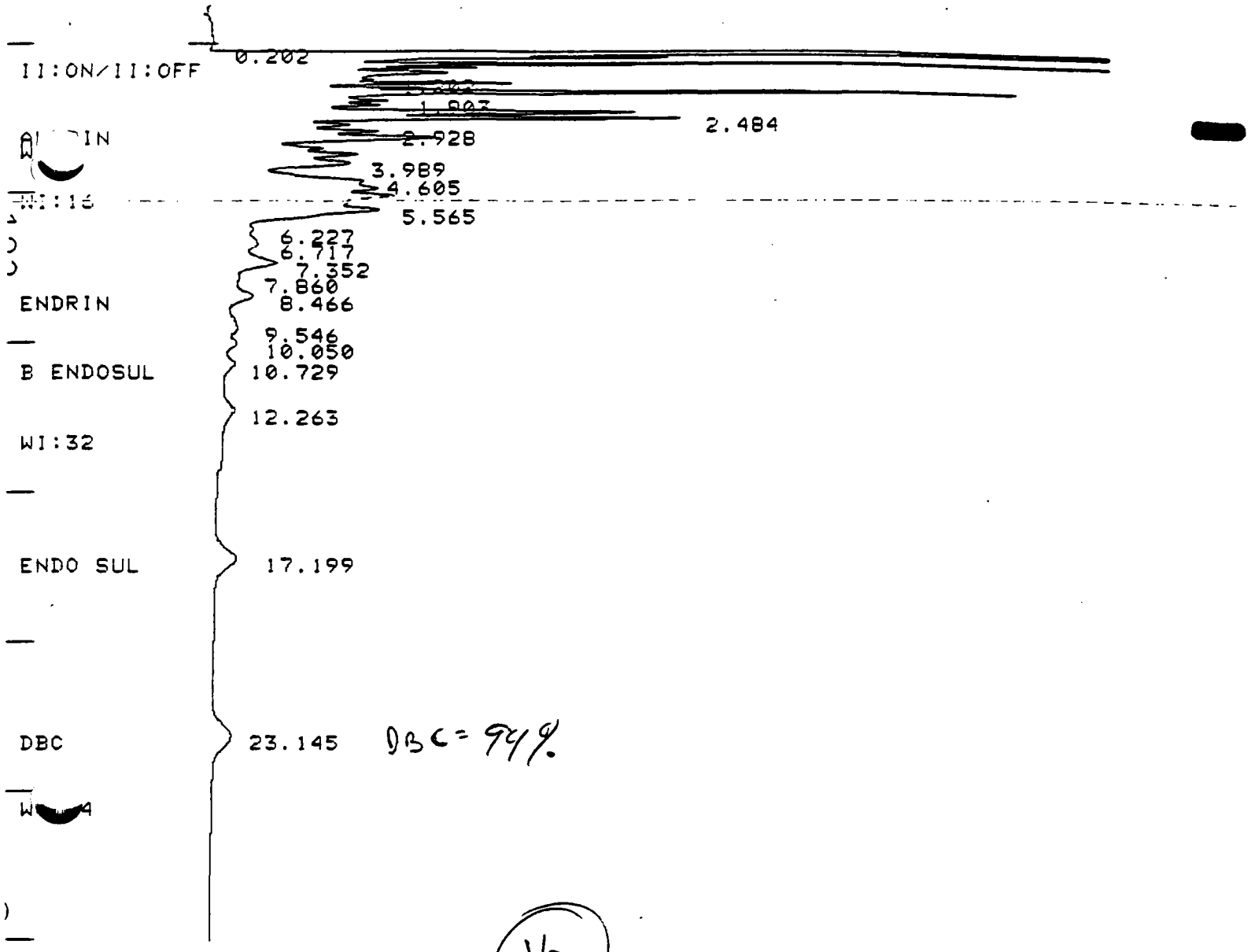
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/20

TITLE: RUN # 32 08-48 4:40 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091771 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		107605	VB		4.55
2		0.0000	0.477		3006	BB		1.90
3		0.0000	0.677		19402	BV		2.30
4		0.0000	0.817		1929	VV		2.35
5		0.0000	0.982		1595	VV	?	7.85
		0.0000	1.202		571	VV		3.70
		0.0000	1.318		2830	VV		3.30
		0.0000	1.481		1560	VV	?	3.50
9	A-BHC	0.0084	1.626	0.006	11061	VV		4.50
10		0.0000	1.903		1115	VV		5.40
11	G-BHC	0.0011	2.049	-0.001	1054	VV		5.00
12	B-BHC	0.0153	2.278	-0.082	5181	VV		7.75
13		0.0002	2.484		6002	VV		5.75
14	D-BHC	0.0014	2.702	-0.038	831	VV		3.65
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	VV		[illegible]

1242 = 2.34 Ht. x .072 µg/mlHt x 1ml x 20 = 3.4 µg

ITLE: RUN # 32 08-48 4:40 7 NOV 85

HANNEL NO: 2 SAMPLE: 15091771 METHOD: 2A PP-1

EAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		107605	VB		4.55
2		0.0000	0.477		3006	BB		1.90
3		0.0000	0.677		19402	BV		2.30
4		0.0000	0.817		1929	VV		2.35
5		0.0000	0.982		1595	VV	?	7.85
6		0.0000	1.202		571	VV		3.70
7		0.0000	1.318		2830	VV		3.30
8		0.0000	1.481		1560	VV	?	3.50
9	A-BHC	0.0084	1.626	0.006	11061	VV		4.50
10		0.0000	1.903		1115	VV		5.40
11	G-BHC	0.0011	~~2.049~~	-0.001	~~1054~~	VV		5.00
12	B-BHC	0.0153	2.278	-0.082	5181	VV		7.75
13		0.0000	2.484		6002	VV		5.75
14	D-BHC	0.0014	2.702	-0.038	831	VV		6.65
15	ALDRIN	0.0020	2.928	-0.082	1367	VV		7.00
16		0.0000	3.146		2307	VV		9.30
17		0.0000	3.502	H-2.34	689	VV	?	7.40
18		0.0000	3.698		1273	VV		10.85
19		0.0000	3.989		1225	VV	?	14.80
20		0.0000	4.605		1570	VV	?	15.00
21		0.0000	4.854		1833	VV	?	16.10
22		0.0000	5.107		2150	VV	?	13.20
23	A ENDOSUL	0.0065	5.565	-0.215	1974	VV	?	21.55
24		0.0000	6.717		198	VV		19.70
25	DIELDRIN	0.0023	7.352	0.242	562	VV		17.20
26	ENDRIN	0.0018	8.466	-0.164	308	VV		18.80
27		0.0000	9.546		134	VV	?	29.30
28		0.0000	10.050		145	VV		16.25
29	B ENDOSUL	0.0009	10.729	0.129	144	VB		21.40
30		0.0000	12.263		168	BB	?	35.40
31	ENDO SUL	0.0058	17.199	-0.081	321	BB		40.20
32	DBC	0.0047	23.145	0.095	296	BB		50.95
OTALS:		0.0502		-0.191	180406			

ETECTED PKS: 35 REJECTED PKS: 3

IVISOR: 1.00000 MULTIPLIER: 1.00000

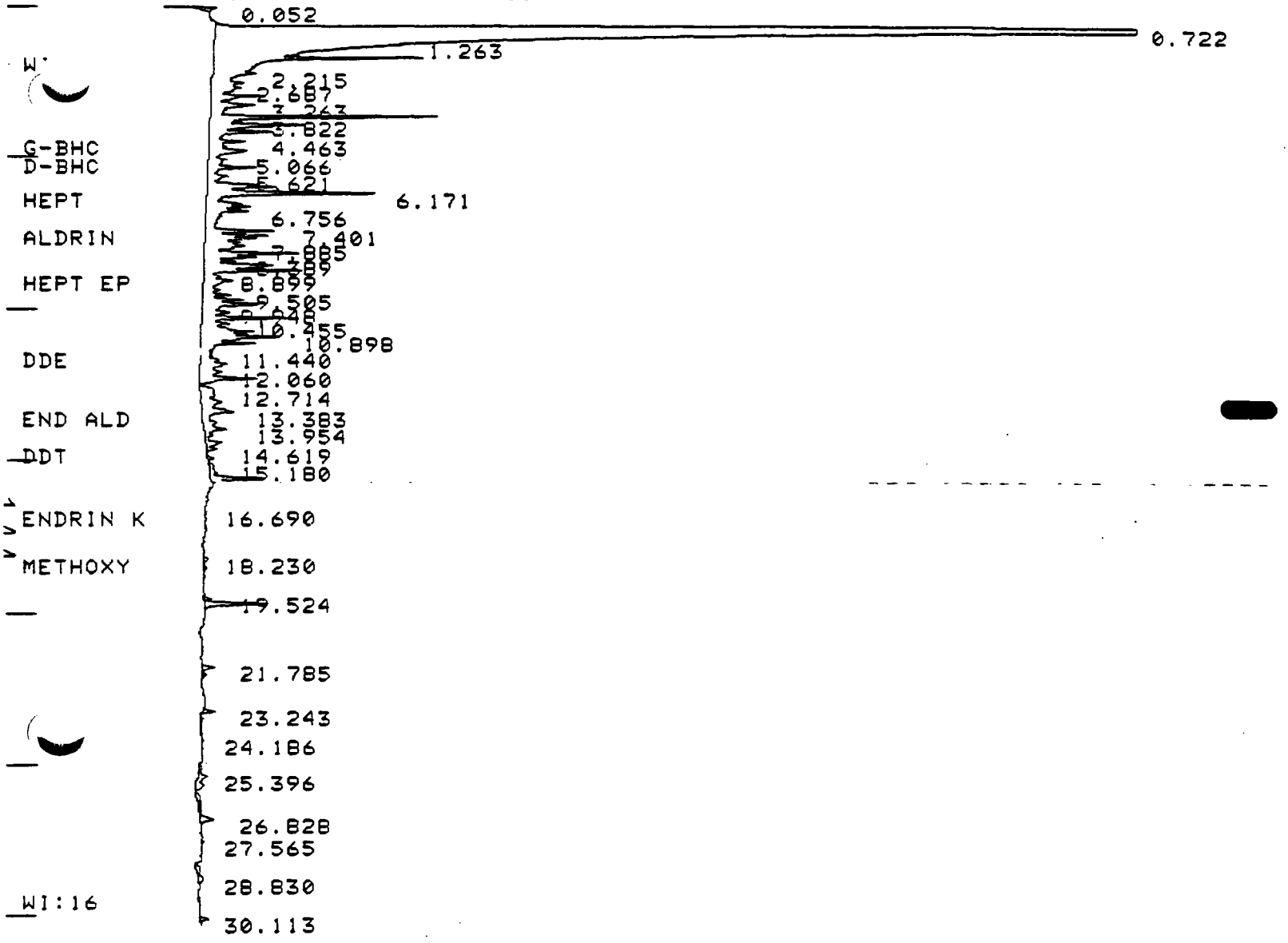
OISE: 1.2 OFFSET: 48

ACK: 2 VIAL: 8 INJ: 1

AVED FILE: P1206

OTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



TITLE: RUN# 21 08-48 7:57 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091771 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		2988	0.01	BB	?	3.10
2		0.0000	0.722		1103680	0.09	BV		6.25
[illegible]		0.0000	1.263		76351	0.16	VV	?	27.60
[illegible]		0.0000	1.587		14735	0.20	VV	?	0.90
[illegible]		0.0000	1.710		47637	0.22	VV	?	3.00
6		0.0000	1.953		4480	0.25	VV	?	
7		0.0000	2.041		11301	0.26	VV	?	1.30
8		0.0000	2.215		14030	0.28	VV	?	5.00
9		0.0000	2.525		9027	0.32	VV	?	5.80
10		0.0000	2.687		6058	0.34	VV	?	5.30
11		0.0000	2.788		4579	0.35	VV	?	2.25
[illegible]		0.0000	2.959		12234	0.38	VV		4.70

Run #21
15091771
08-48

NO	NAME	UG/ML	(MIN)	OFFSET	COUNTS		CODE		(SEC)
1		0.0000	0.052		2988	0.01	BB	?	3.10
2		0.0000	0.722		1103680	0.09	BV		6.25
3		0.0000	1.263		76351	0.16	VV	?	27.60
4		0.0000	1.587		14735	0.20	VV	?	0.90
5		0.0000	1.710		47637	0.22	VV	?	3.00
6		0.0000	1.953		4480	0.25	VV	?	
		0.0000	2.041		11301	0.26	VV	?	1.30
		0.0000	2.215		14030	0.28	VV	?	5.00
		0.0000	2.525		9027	0.32	VV	?	5.80
10		0.0000	2.687		6058	0.34	VV	?	5.30
11		0.0000	2.788		4579	0.35	VV	?	2.25
12		0.0000	2.959		12246	0.38	VV		4.70
13		0.0000	3.263		11999	0.41	VV		7.05
14		0.0000	3.430		2115	0.43	VV	?	1.60
15		0.0000	3.481		2237	0.44	VV	?	
16	A-BHC	0.0078	3.657	-0.043	34097	0.46	VV	?	2.55
17		0.0000	3.822		3887	0.48	VV	?	3.00
18		0.0000	3.930		20289	0.50	VV	?	3.10
19	B-BHC	0.0104	4.142	-0.208	13994	0.52	VV		4.60
20	G-BHC	0.0019	4.463	-0.047	7496	0.57	VV		4.85
21		0.0000	4.633		3272	0.59	VV	?	2.80
22		0.0000	4.762		12693	0.60	VV	?	6.15
23		0.0000	5.066		3033	0.64	VV	?	4.60
24		0.0000	5.137		1623	0.65	VV	?	1.70
25	D-BHC	0.0006	5.165	-0.035	1915	0.65	VV	?	
26		0.0000	5.316		10418	0.67	VV	?	2.60
27		0.0000	5.621		6403	0.71	VV		5.20
28		0.0000	5.884		7161	0.75	VV	?	4.20
29		0.0000	5.960		10031	0.76	VV	?	4.35
30		0.0000	6.171		38827	0.78	VV		5.15
31		0.0000	6.509		6309	0.82	VV	?	5.30
32	HEPT	0.0033	6.604	-0.056	7634	0.84	VV	?	5.05
33		0.0000	6.756		8016	0.86	VV		4.35
34		0.0000	6.833		1399	0.87	VV	?	
35		0.0000	6.927		3030	0.88	VV	?	5.60
36		0.0000	7.021		2347	0.89	VV	?	3.65
37		0.0000	7.136		1677	0.90	VV	?	2.45
		0.0000	7.401		13877	0.94	VV		4.10
		0.0000	7.551		9397	0.96	VV		4.15
40		0.0000	7.647		8216	0.97	VV	?	5.15
41		0.0000	7.771		5587	0.99	VV	?	4.10
42	ALDRIN	0.0024	7.885	0.055	8143	1.00	VV	?	6.60
43		0.0000	7.971		4580	1.01	VV	?	1.80
44		0.0000	8.137		15711	1.03	VV		4.35
45		0.0000	8.255		8671	1.05	VV	?	5.00
46		0.0000	8.389		5232	1.06	VV		4.35
47		0.0000	8.522		17991	1.08	VV		8.20
48		0.0000	8.700		15279	1.10	VV		3.95
49		0.0000	8.899		3574	1.13	VV		4.10
50		0.0000	9.030		10433	1.14	VV		5.15
51	HEPT EP	0.0016	9.339	-0.051	4077	1.18	VV		4.05
52		0.0000	9.505		5125	1.21	VV		3.80
53		0.0000	9.662		7242	1.23	VV		4.20
54		0.0000	9.811		13800	1.24	VV		5.70
55		0.0000	9.948		2096	1.26	VV	?	
56		0.0000	10.086		6498	1.28	VV		5.15
57		0.0000	10.266		14926	1.30	VV		4.30
58		0.0000	10.455		5833	1.33	VV		4.80
59		0.0000	10.704		13486	1.36	VV	?	5.60
60	A ENDO	0.0025	10.795	0.025	6762	1.37	VV	?	3.80
61		0.0000	10.898		12881	1.38	VV	?	2.75
62		0.0000	10.985		4863	1.39	VV	?	3.90
63		0.0000	11.109		16688	1.41	VV		4.20
64		0.0000	11.655		6085	1.48	VV		5.85
65		0.0000	11.786		4629	1.49	VV	?	4.70
66	DIELDRIN	0.0016	11.854	0.004	4190	1.50	VV	?	3.90
67	DDE	0.0027	12.060	-0.070	7241	1.53	VV		5.60
		0.0000	12.275		13513	1.56	VV		4.40
	ENDRIN	0.0026	12.714	0.014	5474	1.61	VV	?	14.20
70		0.0000	12.809		3895	1.62	VV		5.05
71	B ENDO	0.0039	13.056	-0.084	9047	1.66	VV	?	12.00
72		0.0000	13.383		11063	1.70	VV		10.20
73		0.0000	13.733		5021	1.74	VV	?	7.60
74	DDD	0.0030	13.954	0.054	5742	1.77	VV	?	10.45
75	END ALD	0.0010	14.083	0.073	2021	1.79	VV	?	
76		0.0000	14.394		4454	1.83	VV	?	6.90

Run #21
15091771
08-48

44		0.0000	8.137		15711	1.03	VV		4.35
45		0.0000	8.255		8671	1.05	VV	?	5.00
46		0.0000	8.389		5232	1.06	VV		4.35
47		0.0000	8.522		17991	1.08	VV		8.20
48		0.0000	8.700		15279	1.10	VV		3.95
49		0.0000	8.899		3574	1.13	VV		4.10
50		0.0000	9.030		10433	1.14	VV		5.15
51	HEPT EP	0.0016	9.339	-0.051	4077	1.18	VV		4.05
52		0.0000	9.505		5125	1.21	VV		3.80
		0.0000	9.662		7242	1.23	VV		4.20
		0.0000	9.811		13800	1.24	VV		5.70
55		0.0000	9.948		2096	1.26	VV	?	
56		0.0000	10.086		6498	1.28	VV		5.15
57		0.0000	10.266		14926	1.30	VV		4.30
58		0.0000	10.455		5833	1.33	VV		4.80
59		0.0000	10.704		13486	1.36	VV	?	5.60
60	A ENDO	0.0025	10.795	0.025	6762	1.37	VV	?	3.80
61		0.0000	10.898		12881	1.38	VV	?	2.75
62		0.0000	10.985		4863	1.39	VV	?	3.90
63		0.0000	11.109		16688	1.41	VV		4.20
64		0.0000	11.655		6085	1.48	VV		5.85
65		0.0000	11.786		4629	1.49	VV	?	4.70
66	DIELDRIN	0.0016	11.854	0.004	4190	1.50	VV	?	3.90
67	DDE	0.0027	12.060	-0.070	7241	1.53	VV		5.60
68		0.0000	12.275		13513	1.56	VV		4.40
69	ENDRIN	0.0026	12.714	0.014	5474	1.61	VV	?	14.20
70		0.0000	12.809		3895	1.62	VV		5.05
71	B ENDO	0.0039	13.056	-0.084	9047	1.66	VV	?	12.00
72		0.0000	13.383		11063	1.70	VV		10.20
73		0.0000	13.733		5021	1.74	VV	?	7.60
74	DDD	0.0030	13.954	0.054	5742	1.77	VV	?	10.45
75	END ALD	0.0010	14.083	0.073	2021	1.79	VV	?	
76		0.0000	14.394		4454	1.83	VV	?	6.90
77		0.0000	14.619		1977	1.85	VV	?	6.80
78	ENDO SO4	0.0006	14.942	-0.098	1188	1.89	VV	?	12.70
79		0.0000	15.180		1079	1.92	VV	?	10.10
80	DDT	0.0010	15.414	-0.076	1675	1.96	VV	?	4.70
81		0.0000	15.599		10675	1.98	VB		6.10
82	METHOXY	0.0019	18.230	-0.050	1338	2.31	BV		5.70
		0.0000	19.524		1209	2.48	BV		5.40
	SURROGATE	0.0052	19.679	-0.071	11776	2.50	VB		5.05
85		0.0000	21.785		2833	2.76	BV		6.45
86		0.0000	22.031		1042	2.79	VB		5.60
87		0.0000	23.243		2244	2.95	BB		4.80
88		0.0000	24.186		1813	3.07	BB	?	11.70
89		0.0000	25.396		4988	3.22	BV		8.25
90		0.0000	25.683		2580	3.26	VB	?	8.45
91		0.0000	26.828		6897	3.40	BB		10.90
92		0.0000	28.830		4535	3.66	BB	?	13.70
93		0.0000	30.113		2966	3.82	BB	?	4.35
TOTALS:		0.0540		-0.664	1913170				

DETECTED PKS: 97 REJECTED PKS: .4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 27.9 OFFSET: -235

RACK: 2 VIAL: 6 INJ: 1

SAVED FILE: P766

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
5°C (3 MIN) ---> 270 °C @4°C/MIN

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-50 15091772

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/24/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 10

CAS Number		ug /PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	1.5
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

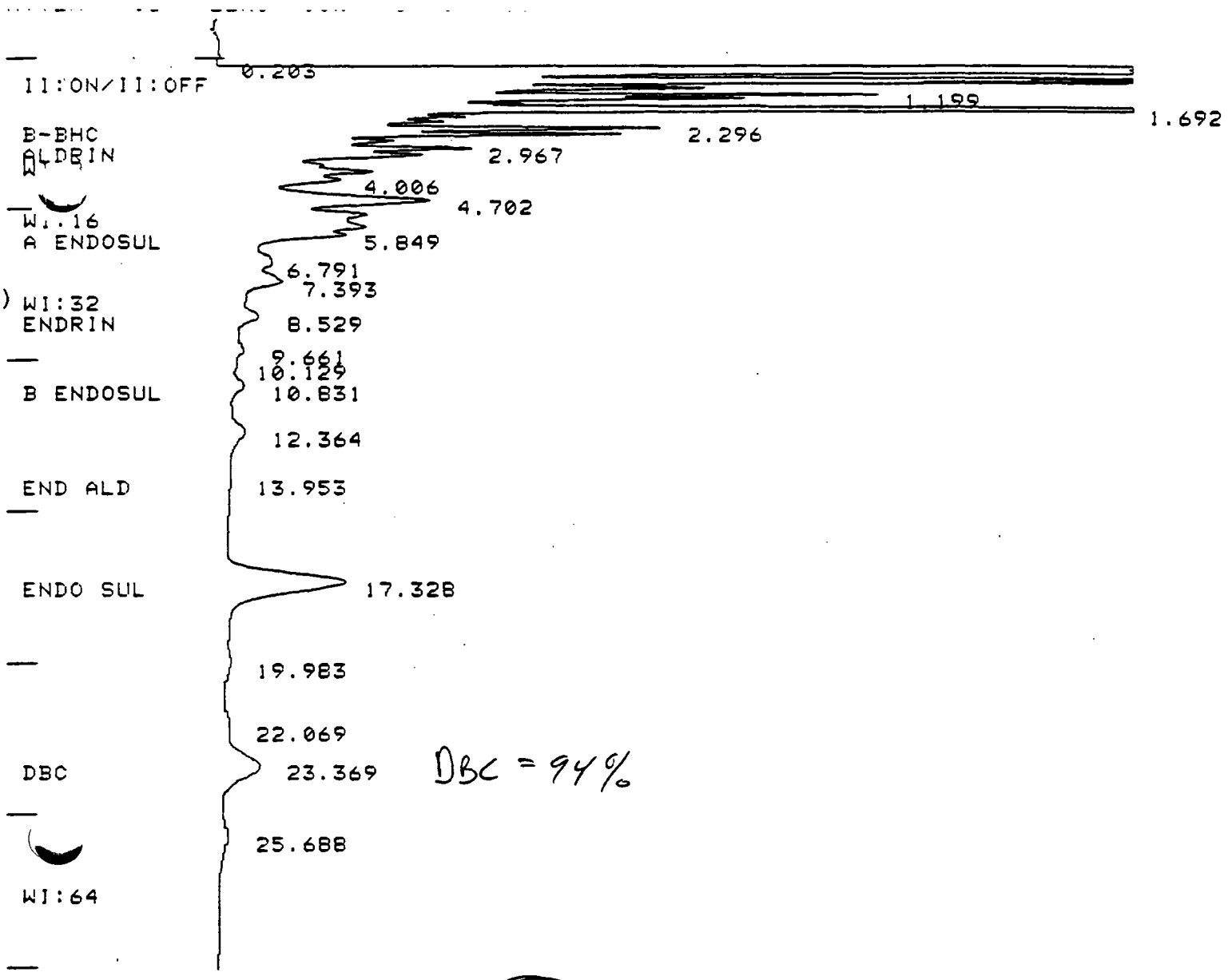
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4



DBC = 94%

1/10

TITLE: RUN # 33 08-50 5:14 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091772 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		WI/2 (SEC)
1		0.0000	0.304		123980	VV	?	3.50
2		0.0000	0.332		120408	VB	?	3.30
3		0.0000	0.433		64267	BB		1.85
4		0.0000	0.682		31330	BV		2.45
5		0.0000	0.755		23011	VV		2.60
6		0.0000	0.819		11246	VV	?	2.85
		0.0000	0.976		3118	VV		5.80
		0.0000	1.199		6166	VV		4.10
9		0.0000	1.318		4256	VV	?	5.60
10		0.0000	1.495		1073	VV		3.20
11	A-BHC	0.0324	1.692	0.072	42495	VV		4.65
12		0.0000	1.917		749	T		3.00
13	G-BHC	0.0008	2.069	0.019	716	T		3.60
14	B-BHC	0.0130	2.296	-0.004	4399	BV		6.65
15		0.0000	2.503		4063	VV		5.15
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

1242 = ~~1.45~~ Ht. KS × ~~.072~~ KS µg/ml Ht × 1 ml × 10 = ~~1.4~~ µg
1.82 Ht. .085 1.5 µg KS

TITLE: RUN # 33 08-50 5:14 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091772 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.304		123980	VV	?	3.50
2		0.0000	0.332		120408	VB	?	3.30
3		0.0000	0.433		64267	BB		1.85
4		0.0000	0.682		31330	BV		2.45
5		0.0000	0.755		23011	VV		2.60
6		0.0000	0.819		11246	VV	?	2.85
7		0.0000	0.976		3118	VV		5.80
8		0.0000	1.199		6166	VV		4.10
9		0.0000	1.318		4256	VV	?	5.60
10		0.0000	1.495		1073	VV		3.20
11	A-BHC	0.0324	1.692	0.072	42495	VV		4.65
12		0.0000	1.917		749	T		3.00
13	G-BHC	0.0008	~~2.069~~	0.019	~~716~~	T		3.60
14	B-BHC	0.0130	2.296	-0.064	4399	BV		6.65
15		0.0000	2.503		4063	VV		5.15
16	D-BHC	0.0013	2.709	-0.031	726	VV		6.35
17	ALDRIN	0.0033	2.967	-0.043	2196	VV		6.90
18		0.0000	3.176		1650	VV		8.20
19		0.0000	~~3.327~~	H= ~~1.93~~ 1.82	~~383~~	VV	?	7.70
20		0.0000	3.737		1249	VV		10.15
21		0.0000	4.006		839	VV	?	12.15
22		0.0000	4.702		2409	VV	?	20.25
23		0.0000	5.172		1523	VV	?	14.80
24		0.0000	5.573		1563	VV	?	23.20
25	A ENDOSUL	0.0043	5.849	0.069	1310	VV	?	8.60
26		0.0000	6.791		281	VV	?	31.70
27	DIELDRIN	0.0020	7.393	0.283	503	VB	?	24.35
28	ENDRIN	0.0016	8.529	-0.101	270	BV		20.85
29	B ENDOSUL	0.0011	10.831	0.231	164	VV		24.35
30		0.0000	12.364		229	VV		36.15
31	ENDO SUL	0.0343	17.328	0.048	1895	BV		42.10
32	DBC	0.0094	23.369	0.319	593	VV		51.55
TOTALS:		0.1035		0.802	459060			

DETECTED PKS: 39 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 44

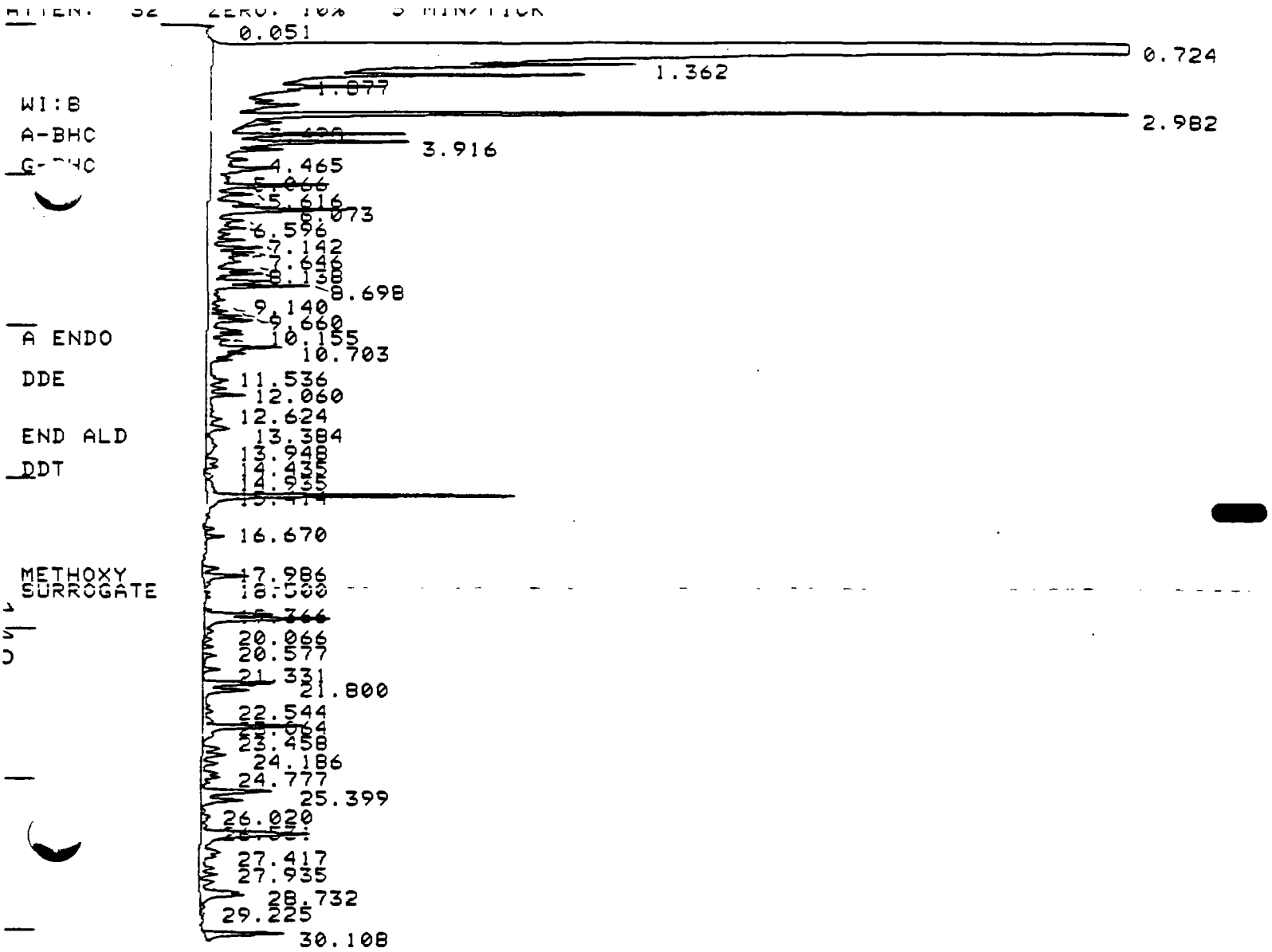
BACK: 2 VIAL: 9 INJ: 1

SAVED FILE: P1207

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 5:14 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091772 METHOD: 2A PP-4



GC#6, SPB-5, 2ul injected

TITLE: RUN# 22 OT-50 8:34 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091772 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.724		108210	0.09	BV		6.70
2		0.0000	0.887		790720	0.11	VV		5.40
3		0.0000	1.362		57327	0.17	VV	?	3.50
4		0.0000	1.431		84036	0.18	VV	?	18.70
5		0.0000	1.708		77171	0.22	VV		4.85
6		0.0000	1.877		18576	0.24	VV	?	
7		0.0000	2.042		9026	0.26	VV	?	4.30
		0.0000	2.097		28442	0.27	VV	?	6.20
		0.0000	2.205		27176	0.28	VV	?	16.40
10		0.0000	2.521		17081	0.32	VV	?	9.70
11		0.0000	2.677		30878	0.34	VV	?	12.25
12		0.0000	2.982		241860	0.38	VV		3.40
13		0.0000	3.252		6566	0.41	T	?	13.75
14	A-BHC	0.0076	3.659	-0.04:	33174	0.47	VV	?	2.75
15		0.0000	3.916		49131	0.50	VV		5.60
16	B-BHC	0.0135	4.141	-0.30[illegible]	18232	0.53	VV		5.45

		[illegible]	[illegible]		27176	0.28	VV	?	16.40
10		0.0000	2.521		17081	0.32	VV	?	9.70
11		0.0000	2.677		30878	0.34	VV	?	12.25
12		0.0000	2.982		241860	0.38	VV		3.40
13		0.0000	3.252		6566	0.41	T	?	13.75
14	A-BHC	0.0076	3.659	-0.041	33174	0.47	VV	?	2.75
15		0.0000	3.916		49131	0.50	VV		5.60
16	B-BHC	0.0135	4.141	-0.209	18232	0.53	VV		5.45
	G-BHC	0.0025	4.465	-0.045	9507	0.57	VV		7.10
	Run #22	0.0000	4.624		4530	0.59	VV	?	2.10
19	1509172	0.0000	4.762		14907	0.61	VV	?	5.85
20		0.0000	4.865		4927	0.62	VV	?	10.80
21		0.0000	5.066		3842	0.64	VV	?	7.20
22	D-BHC OPS D	0.0013	5.188	-0.012	4421	0.66	VV	?	8.20
23		0.0000	5.333		23110	0.68	VV	?	3.00
24		0.0000	5.616		10900	0.71	VV		4.90
25		0.0000	5.885		5200	0.75	VV	?	5.00
26		0.0000	5.960		6940	0.76	VV	?	5.30
27		0.0000	6.073		7800	0.77	VV	?	4.80
28		0.0000	6.170		30678	0.78	VV		5.60
29		0.0000	6.492		7036	0.83	VV		6.00
30	HEPT	0.0015	6.596	-0.064	3333	0.84	VV	?	2.80
31		0.0000	6.753		8450	0.86	VV	?	2.80
32		0.0000	6.939		4061	0.88	VV	?	5.70
33		0.0000	7.018		1931	0.89	VV	?	0.60
34		0.0000	7.142		6733	0.91	VV	?	2.40
35		0.0000	7.399		9853	0.94	VV		4.65
36		0.0000	7.551		6685	0.96	VV		4.55
37		0.0000	7.646		6651	0.97	VV	?	5.95
38		0.0000	7.762		3790	0.99	VV	?	4.30
39	ALDRIN	0.0029	7.856	0.026	9866	1.00	VV	?	8.75
40		0.0000	8.138		7266	1.04	VV		4.45
41		0.0000	8.259		8890	1.05	VV		4.55
42		0.0000	8.383		2521	1.07	VV	?	5.90
43		0.0000	8.518		14670	1.08	VV		7.85
44		0.0000	8.698		15020	1.11	VV		3.95
45		0.0000	8.891		2251	1.13	VV	?	4.65
46		0.0000	9.025		1866	1.15	VV	?	3.80
		0.0000	9.140		3390	1.16	VV		5.05
	HEPT EP	0.0010	9.335	-0.055	2588	1.19	VV		4.65
49		0.0000	9.502		2968	1.21	VV		3.95
50		0.0000	9.660		5361	1.23	VV		4.30
51		0.0000	9.808		10377	1.25	VV		5.70
52		0.0000	10.155		7361	1.29	VV		5.85
53		0.0000	10.268		5852	1.31	VV		4.35
54		0.0000	10.455		3997	1.33	VV		5.40
55		0.0000	10.703		13825	1.36	VV		4.25
56	A ENDO	0.0017	10.787	0.017	4583	1.37	VV	?	5.80
57		0.0000	10.895		6010	1.39	VV	?	5.50
58		0.0000	10.985		3175	1.40	VV	?	4.70
59		0.0000	11.108		4231	1.41	VV		4.00
60		0.0000	11.536		2186	1.47	VV		2.40
61		0.0000	11.657		1322	1.48	VV	?	3.70
62		0.0000	11.787		3334	1.50	VV	?	4.90
63	DIELDRIN	0.0008	11.852	0.002	2106	1.51	VV	?	4.05
64	DDE	0.0016	12.060	-0.070	4314	1.53	VV		5.40
65		0.0000	12.274		7447	1.56	VV		4.50
66	ENDRIN	0.0010	12.624	-0.076	2181	1.61	VV	?	9.05
67		0.0000	12.809		1478	1.63	VV	?	5.35
68	B ENDO	0.0020	13.058	-0.082	4699	1.66	VV		5.95
69		0.0000	13.384		7322	1.70	VV		7.70
70		0.0000	13.734		1843	1.75	VV	?	4.40
71	DDD	0.0017	13.948	0.048	3172	1.77	VV	?	10.10
72	END ALD	0.0006	14.016	0.006	1081	1.78	VV	?	8.40
73		0.0000	14.099		1365	1.79	VV	?	9.70
74		0.0000	14.392		2213	1.83	VV	?	4.30
75		0.0000	14.435		1644	1.84	VV	?	9.20
76		0.0000	14.615		2443	1.86	VV		4.40
	ENDO SO4	0.0009	14.935	-0.105	1907	1.90	VV		9.00
		0.0000	15.179		1950	1.93	VV	?	11.20
79		0.0000	15.316		1255	1.95	VV	?	5.20
80	DDT	0.0010	15.414	-0.076	1691	1.96	VV	?	4.10
81		0.0000	15.593		53682	1.98	VV	?	2.75
82		0.0000	16.670		1611	2.12	BV		5.25
83	ENDRIN K	0.0011	16.926	0.036	2832	2.15	VB		4.95
84		0.0000	17.986		4091	2.29	BV		5.85
85	METHOXY	0.0151	18.237	-0.043	10401	2.32	VV		5.90
86		0.0000	18.500		1751	2.36	VV		2.35

Run #22
1509772
0850

51		0.0000	9.808		10377	1.25	VV		5.70
52		0.0000	10.155		7361	1.29	VV		5.85
53		0.0000	10.268		5852	1.31	VV		4.35
54		0.0000	10.455		3997	1.33	VV		5.40
55		0.0000	10.703		13625	1.36	VV		4.25
56	A ENDO	0.0017	10.787	0.017	4583	1.37	VV	?	5.80
57		0.0000	10.895		6010	1.39	VV	?	5.50
		0.0000	10.985		3175	1.40	VV	?	4.70
		0.0000	11.108		4231	1.41	VV		4.00
60		0.0000	11.536		2186	1.47	VV		2.40
61		0.0000	11.657		1322	1.48	VV	?	3.70
62		0.0000	11.787		3334	1.50	VV	?	4.90
63	DIELDRIN	0.0008	11.852	0.002	2106	1.51	VV	?	4.05
64	DDE	0.0016	12.060	-0.070	4314	1.53	VV		5.40
65		0.0000	12.274		7447	1.56	VV		4.50
66	ENDRIN	0.0010	12.624	-0.076	2181	1.61	VV	?	9.05
67		0.0000	12.809		1478	1.63	VV	?	5.35
68	B ENDO	0.0020	13.058	-0.082	4699	1.66	VV		5.95
69		0.0000	13.384		7322	1.70	VV		7.70
70		0.0000	13.734		1843	1.75	VV	?	4.40
71	DDD	0.0017	13.948	0.048	3172	1.77	VV	?	10.10
72	END ALD	0.0006	14.016	0.006	1081	1.78	VV	?	8.40
73		0.0000	14.099		1365	1.79	VV	?	9.70
74		0.0000	14.392		2213	1.83	VV	?	4.30
75		0.0000	14.435		1644	1.84	VV	?	9.20
76		0.0000	14.615		2443	1.86	VV		4.40
77	ENDO S04	0.0009	14.935	-0.105	1907	1.90	VV		9.00
78		0.0000	15.179		1950	1.93	VV	?	11.20
79		0.0000	15.316		1255	1.95	VV	?	5.20
80	DDT	0.0010	15.414	-0.076	1691	1.96	VV	?	4.10
81		0.0000	15.593		53682	1.98	VV	?	2.75
82		0.0000	16.670		1611	2.12	BV		5.25
83	ENDRIN K	0.0011	16.926	0.036	2832	2.15	VB		4.95
84		0.0000	17.986		4091	2.29	BV		5.85
85	METHOXY	0.0151	18.237	-0.043	10401	2.32	VV		5.90
86		0.0000	18.500		1381	2.36	VV		2.35
87		0.0000	19.521		13497	2.48	VV		6.25
	SURROGATE	0.0112	19.676	-0.074	25434	2.51	VV		5.10
		0.0000	20.066		2370	2.55	VV		7.50
90		0.0000	20.327		2264	2.59	VV		6.15
91		0.0000	20.577		1671	2.62	VB		4.45
92		0.0000	20.869		2454	2.66	BV		5.10
93		0.0000	21.331		4036	2.71	VB		5.55
94		0.0000	21.800		17529	2.78	BV		7.45
95		0.0000	22.030		11535	2.80	VV		6.20
96		0.0000	22.544		2454	2.87	VV	?	7.60
97		0.0000	22.725		2804	2.89	VV		8.20
98		0.0000	23.064		3458	2.94	VV		10.80
99		0.0000	23.247		23311	2.96	VV		6.10
100		0.0000	23.458		4339	2.99	VV	?	22.90
101		0.0000	23.967		4836	3.05	VV		7.85
102		0.0000	24.186		6030	3.08	VV		6.60
103		0.0000	24.467		4043	3.11	VV		5.55
104		0.0000	24.777		3693	3.15	VV		5.90
105		0.0000	24.916		3834	3.17	VV		5.60
106		0.0000	25.098		1930	3.19	VV	?	6.10
107		0.0000	25.399		18578	3.23	VV		7.05
108		0.0000	25.685		10231	3.27	VV		6.10
109		0.0000	26.020		1197	3.31	VV		6.65
110		0.0000	26.216		2100	3.34	VV	?	6.40
111		0.0000	26.282		1571	3.35	VV	?	13.90
112		0.0000	26.531		1881	3.38	VV		8.70
113		0.0000	26.831		40171	3.41	VV		9.85
114		0.0000	27.417		6617	3.49	VV		10.85
115		0.0000	27.547		3783	3.51	VV	?	7.00
116		0.0000	27.935		5771	3.56	VV		6.20
117		0.0000	28.142		4091	3.58	VV		5.90
		0.0000	28.380		4350	3.61	VV		9.55
		0.0000	28.732		7522	3.66	VV	?	6.20
120		0.0000	28.827		11061	3.67	VV	?	7.65
121		0.0000	29.225		1007	3.72	VV	?	9.50
122		0.0000	30.108		16504	3.83	BB		6.35
TOTALS:		0.0690		-0.817	3307870				

DETECTED PKS: 130 REJECTED PKS: 5

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-51 15091773

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/24/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 25

CAS Number		ug /PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.5
11104-28-2	Aroclor-1221	< 2.5
11141-16-5	Aroclor-1232	< 2.5
53469-21-9	Aroclor-1242	6.6
12672-29-6	Aroclor-1248	< 2.5
11097-69-1	Aroclor-1254	< 5.0
11096-82-5	Aroclor-1260	< 5.0

V_i = Volume of extract injected (ul)

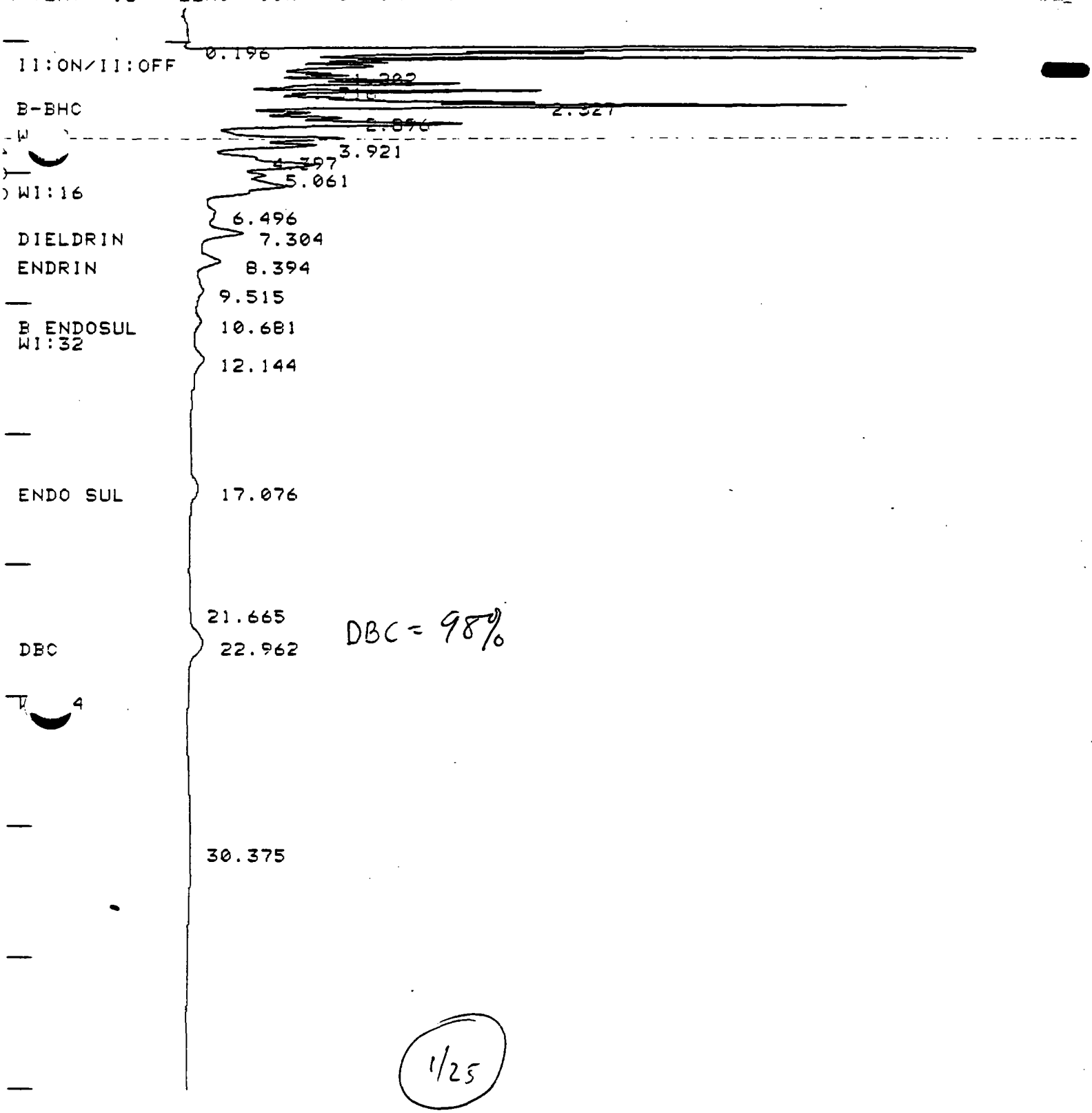
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

ATTEN: 16 ZERO: 10% 5 MIN/TICK



08-51

TITLE: RUN # 35 6:20 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091773 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.300		107637	VB	4.50

1242 = 3.69 Ht. x .072 µg/ml Ht x 1 ml x 25 = 6.6 µg

08-51

TITLE: RUN # 35 6:20 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091773 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.300		107637	VB		4.50
2		0.0000	0.472		2867	BB		1.90
3		0.0000	0.671		11761	BV		2.40
4		0.0000	0.809		1458	VV		2.15
5		0.0000	0.952		1341	VV	?	7.55
6		0.0000	1.202		889	VV		3.55
7		0.0000	1.297		1276	VV		3.80
8		0.0000	1.472		2546	VV		5.15
9	A-BHC	0.0027	1.609	-0.011	3579	VV		4.95
10		0.0000	1.716		650	VV	?	2.70
11		0.0000	1.892		5256	VV		4.55
12	G-BHC	0.0011	2.027	-0.023	1053	VV	?	4.40
13		0.0000	~~2.147~~		~~1769~~	VV	?	5.60
14	B-BHC	0.0157	2.327	-0.033	5311	VV	?	7.60
15		0.0000	2.460		11028	VV	?	3.60
16	D-BHC	0.0024	2.704	-0.036	1389	VV		6.65
17		0.0000	2.896		2031	VV	?	6.70
18	ALDRIN	0.0064	3.111	0.101	4276	VV		9.40
19		0.0000	3.669		2246	VV		10.10
20		0.0000	3.921	H=3.69	1768	VV	?	12.10
21		0.0000	4.397		745	VV	?	11.50
		0.0000	4.680		1803	VV	?	19.30
23		0.0000	5.061		972	VV	?	14.90
24		0.0000	5.487		1405	VV	?	25.30
25	A ENDOSUL	0.0024	5.729	-0.051	742	VV	?	9.40
26		0.0000	6.496		193	VV		28.60
27	DIELDRIN	0.0029	7.304	0.194	708	VB		17.00
28	ENDRIN	0.0021	8.394	-0.236	369	BV		20.05
29		0.0000	9.515		133	VV		21.00
30	B ENDOSUL	0.0008	10.681	0.081	115	VB		24.25
31		0.0000	12.144		208	BB		31.50
32	ENDO SUL	0.0024	17.076	-0.204	135	BB		41.35
33	DBC	0.0039	22.962	-0.088	248	VB		50.15
TOTALS:		0.0428		-0.306	177907			

DETECTED PKS: 36 REJECTED PKS: 3

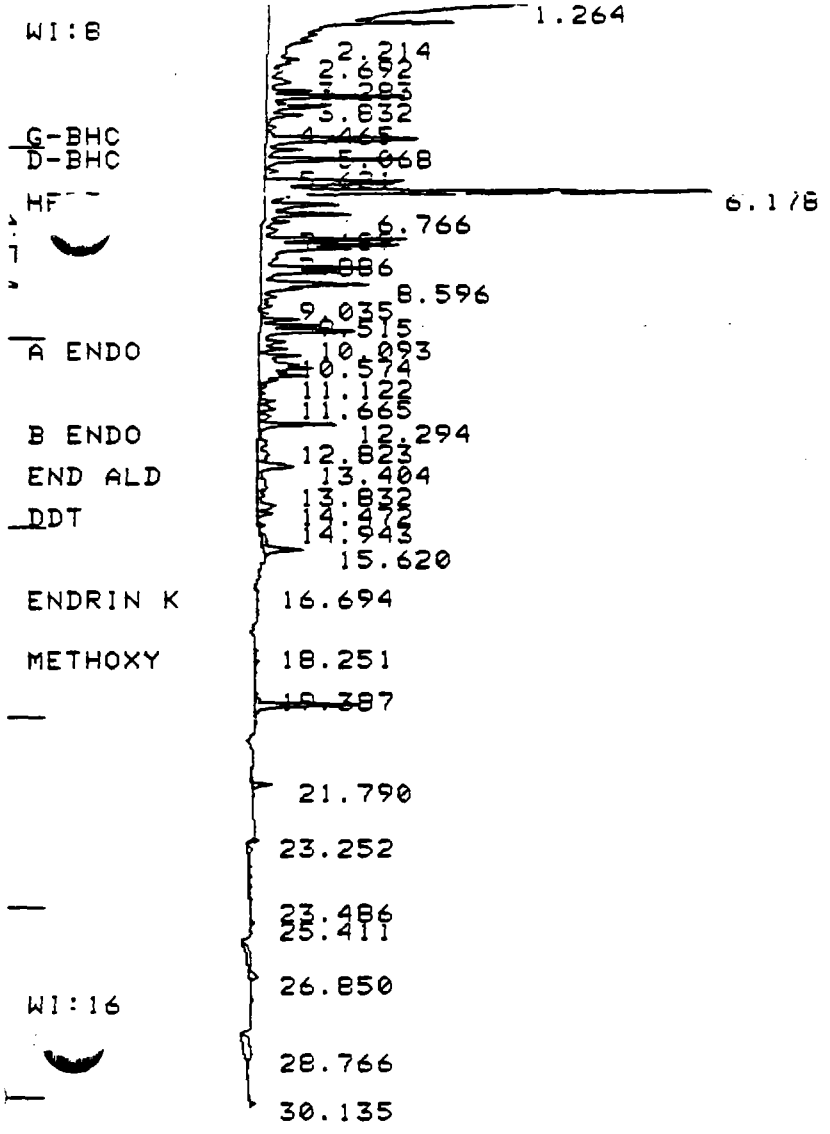
DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 55

RACK: 2 VIAL: 11 INJ: 1

SAVED FILE: P1209

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
C #2



GC#6, SPB-5, 2ul injected

TITLE: RUN# 24 08-51 9:47 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091773 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3714	0.01	BB	?	3.10
2		0.0000	0.725		1131700	0.09	BV		6.25
3		0.0000	1.264		93413	0.16	VV	?	27.70
4		0.0000	1.710		31972	0.22	VV	?	5.40
5		0.0000	1.877		8867	0.24	VV	?	
6		0.0000	2.045		10782	0.26	VV	?	3.40
7		0.0000	2.214		11075	0.28	VV	?	4.20
8		0.0000	2.521		5449	0.32	VV	?	2.90
9		0.0000	2.692		4925	0.34	VV	?	5.90
		0.0000	2.801		3574	0.35	VV	?	2.95
		0.0000	2.984		4176	0.38	VV	?	11.70
12		0.0000	3.283		5991	0.42	VV		9.15
13		0.0000	3.525		5635	0.45	VV		3.80
14	A-BHC	0.0036	3.659	-0.041	15812	0.46	VV		3.80
15		0.0000	3.832		2006	0.49	VV	?	4.30
16		0.0000	3.938		9413	0.50	VV		4.65
17	B-BHC	0.0042	4.152	-0.198	5634	0.53	VV		4.20
18	G-BHC	0.0005	4.465	-0.045	1750	0.57	VV		4.40
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	?	4.70

CHANNEL NO: 1 SAMPLE: 15091773 METHOD: 6B P

Run #4 08-5

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3714	0.01	BB	?	3.10
2		0.0000	0.725		1131700	0.09	BV		6.25
3		0.0000	1.264		93413	0.16	VV	?	27.70
		0.0000	1.710		31972	0.22	VV	?	5.40
		0.0000	1.877		8867	0.24	VV	?	
6		0.0000	2.045		10782	0.26	VV	?	3.40
7		0.0000	2.214		11075	0.28	VV	?	4.20
8		0.0000	2.521		5449	0.32	VV	?	2.90
9		0.0000	2.692		4925	0.34	VV	?	5.90
10		0.0000	2.801		3574	0.35	VV	?	2.95
11		0.0000	2.984		4176	0.38	VV	?	11.70
12		0.0000	3.283		5991	0.42	VV		9.15
13		0.0000	3.525		5635	0.45	VV		3.80
14	A-BHC	0.0036	3.659	-0.041	15812	0.46	VV		3.80
15		0.0000	3.832		2006	0.49	VV	?	4.30
16		0.0000	3.938		9413	0.50	VV		4.65
17	B-BHC	0.0042	4.152	-0.198	5634	0.53	VV		4.20
18	G-BHC	0.0005	4.465	-0.045	1750	0.57	VV		4.40
19		0.0000	4.653		1368	0.59	VV	?	4.30
20		0.0000	4.771		28521	0.61	VV		6.65
21		0.0000	5.068		5012	0.64	VV		3.55
22	D-BHC	0.0051	5.322	0.122	16772	0.68	VV		4.10
23		0.0000	5.621		1918	0.71	VV		4.40
24		0.0000	5.888		14101	0.75	VV	?	3.90
25		0.0000	5.963		13539	0.76	VV	?	4.40
26		0.0000	6.178		67729	0.78	VV		5.00
27		0.0000	6.516		12967	0.83	VV		5.20
28	HEPT	0.0050	6.766	0.106	11504	0.86	VV		4.10
29		0.0000	6.941		5901	0.88	VV		4.55
30		0.0000	7.157		1730	0.91	VV	?	4.10
31		0.0000	7.189		1391	0.91	VV	?	7.30
32		0.0000	7.410		16305	0.94	VV		4.00
33		0.0000	7.561		15593	0.96	VV		4.30
		0.0000	7.656		12424	0.97	VV	?	5.05
	ALDRIN	0.0008	7.886	0.056	2880	1.00	VV	?	3.60
36		0.0000	7.960		1290	1.01	VV	?	4.80
37		0.0000	8.151		12334	1.03	VV		4.10
38		0.0000	8.264		10830	1.05	VV	?	5.00
39		0.0000	8.596		17214	1.09	VV		5.90
40		0.0000	8.706		4835	1.10	VV	?	4.45
41		0.0000	8.904		2045	1.13	VV		3.65
42		0.0000	9.150		1398	1.16	VB		3.10
43	HEPT EP	0.0016	9.515	0.125	4084	1.21	VV		3.95
44		0.0000	9.678		6675	1.23	VV		4.30
45		0.0000	9.825		15204	1.25	VV		5.55
46		0.0000	10.093		3963	1.28	VV		5.05
47		0.0000	10.280		3400	1.30	VV		4.10
48		0.0000	10.470		4916	1.33	VV		4.25
49		0.0000	10.574		1526	1.34	VV	?	2.90
50		0.0000	10.710		6023	1.36	VV	?	7.70
51	A ENDO	0.0024	10.805	0.035	6348	1.37	VV	?	4.95
52		0.0000	10.909		2728	1.38	VV	?	3.10
53		0.0000	11.007		5164	1.40	VV	?	2.40
54		0.0000	11.122		2110	1.41	VV	?	4.25
55		0.0000	11.665		1865	1.48	VV		4.00
56	DIELDRIN	0.0012	11.875	0.025	3230	1.51	VV		7.65
57	DDE	0.0009	12.057	-0.073	2384	1.53	VV		7.80
58		0.0000	12.294		9877	1.56	VV		4.20
59	ENDRIN	0.0007	12.735	0.035	1536	1.62	VV	?	3.10
60		0.0000	12.823		1369	1.63	VV	?	3.55
61	B ENDO	0.0010	13.066	-0.074	2190	1.66	VV		9.00
62		0.0000	13.404		8917	1.70	VV		8.10
63		0.0000	13.750		1814	1.74	VV	?	4.90
	DDD	0.0011	13.832	-0.068	2158	1.75	VV	?	
	END ALD	0.0008	14.151	0.141	1591	1.79	VV		3.65
66		0.0000	14.415		3276	1.83	VV	?	4.60
67		0.0000	14.472		1333	1.84	VV	?	7.60
68		0.0000	14.638		2222	1.86	VV		3.80
69	ENDO SO4	0.0006	14.943	-0.097	1188	1.89	VV		9.10
70		0.0000	15.326		1787	1.94	VV	?	13.20
71	DDT	0.0047	15.620	0.130	8089	1.98	VB		7.25
72	SURROGATE	0.0065	19.696	-0.054	14714	2.50	VB		4.75
73		0.0000	21.790		2547	2.76	BB		5.40

Run #24
15091773
08-51

15		0.0000	3.832		2006	0.49	VV	?	4.30
16		0.0000	3.938		9413	0.50	VV		4.65
17	B-BHC	0.0042	4.152	-0.198	5634	0.53	VV		4.20
18	G-BHC	0.0005	4.465	-0.045	1750	0.57	VV		4.40
19		0.0000	4.653		1368	0.59	VV	?	4.30
20		0.0000	4.771		28521	0.61	VV		6.65
21		0.0000	5.068		5012	0.64	VV		3.55
22	D-BHC	0.0051	5.322	0.122	16772	0.68	VV		4.10
		0.0000	5.621		1918	0.71	VV		4.40
		0.0000	5.888		14101	0.75	VV	?	3.90
25		0.0000	5.963		13539	0.76	VV	?	4.40
26		0.0000	6.178		67729	0.78	VV		5.00
27		0.0000	6.516		12967	0.83	VV		5.20
28	HEPT	0.0050	6.766	0.106	11504	0.86	VV		4.10
29		0.0000	6.941		3901	0.88	VV		4.55
30		0.0000	7.157		1730	0.91	VV	?	4.10
31		0.0000	7.189		1391	0.91	VV	?	7.30
32		0.0000	7.410		16305	0.94	VV		4.00
33		0.0000	7.561		15593	0.96	VV		4.30
34		0.0000	7.656		12424	0.97	VV	?	5.05
35	ALDRIN	0.0008	7.886	0.056	2880	1.00	VV	?	3.60
36		0.0000	7.960		1290	1.01	VV	?	4.80
37		0.0000	8.151		12334	1.03	VV		4.10
38		0.0000	8.264		10830	1.05	VV	?	5.00
39		0.0000	8.596		17214	1.09	VV		5.90
40		0.0000	8.706		4833	1.10	VV	?	4.45
41		0.0000	8.904		2045	1.13	VV		3.65
42		0.0000	9.150		1398	1.16	VB		3.10
43	HEPT EP	0.0016	9.515	0.125	4084	1.21	VV		3.95
44		0.0000	9.678		6675	1.23	VV		4.30
45		0.0000	9.825		15204	1.25	VV		5.55
46		0.0000	10.093		3963	1.28	VV		5.05
47		0.0000	10.280		3400	1.30	VV		4.10
48		0.0000	10.470		4916	1.33	VV		4.25
49		0.0000	10.574		1526	1.34	VV	?	2.90
50		0.0000	10.710		6023	1.36	VV	?	7.70
51	A ENDO	0.0024	10.805	0.035	6348	1.37	VV	?	4.95
52		0.0000	10.909		2728	1.38	VV	?	3.10
		0.0000	11.007		5164	1.40	VV	?	2.40
		0.0000	11.122		2110	1.41	VV	?	4.25
55		0.0000	11.665		1865	1.48	VV		4.00
56	DIELDRIN	0.0012	11.875	0.025	3230	1.51	VV		7.65
57	DDE	0.0009	12.057	-0.073	2384	1.53	VV		7.80
58		0.0000	12.294		9877	1.56	VV		4.20
59	ENDRIN	0.0007	12.735	0.035	1536	1.62	VV	?	3.10
60		0.0000	12.823		1369	1.63	VV	?	3.55
61	B ENDO	0.0010	13.066	-0.074	2190	1.66	VV		9.00
62		0.0000	13.404		8917	1.70	VV		8.10
63		0.0000	13.750		1814	1.74	VV	?	4.90
64	DDD	0.0011	13.832	-0.068	2158	1.75	VV	?	
65	END ALD	0.0008	14.151	0.141	1591	1.79	VV		3.65
66		0.0000	14.415		3276	1.83	VV	?	4.60
67		0.0000	14.472		1333	1.84	VV	?	7.60
68		0.0000	14.638		2222	1.86	VV		3.80
69	ENDO SO4	0.0006	14.943	-0.097	1188	1.89	VV		9.10
70		0.0000	15.326		1787	1.94	VV	?	13.20
71	DDT	0.0047	15.620	0.130	8089	1.98	VB		7.25
72	SURROGATE	0.0065	19.696	-0.054	14714	2.50	VB		4.75
73		0.0000	21.790		2947	2.76	BB		5.40
74		0.0000	23.252		1052	2.95	BB		3.95
75		0.0000	23.486		7003	2.98	BB	?	
76		0.0000	26.850		6828	3.40	BB	?	14.50
77		0.0000	28.766		6813	3.65	BV	?	18.90
78		0.0000	30.135		1858	3.82	VB	?	12.00
TOTALS:		0.0407		0.125	1791670				

DI[illegible]CTED PKS: 90 REJECTED PKS: 12

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 27.9 OFFSET: -209

RACK: 2 VIAL: 9 INJ: 1

SAVED FILE: F769

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-68
15090227

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/11/85

Date Analyzed: 11/10/85

Dil Factor: 1

CAS Number	OL X 1	ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	0.1
11104-28-2	Aroclor-1221	0.1
11141-16-5	Aroclor-1232	0.1
53469-21-9	Aroclor-1242	0.1
12672-29-6	Aroclor-1248	0.1
11097-69-1	Aroclor-1254	0.2
11096-82-5	Aroclor-1260	0.2

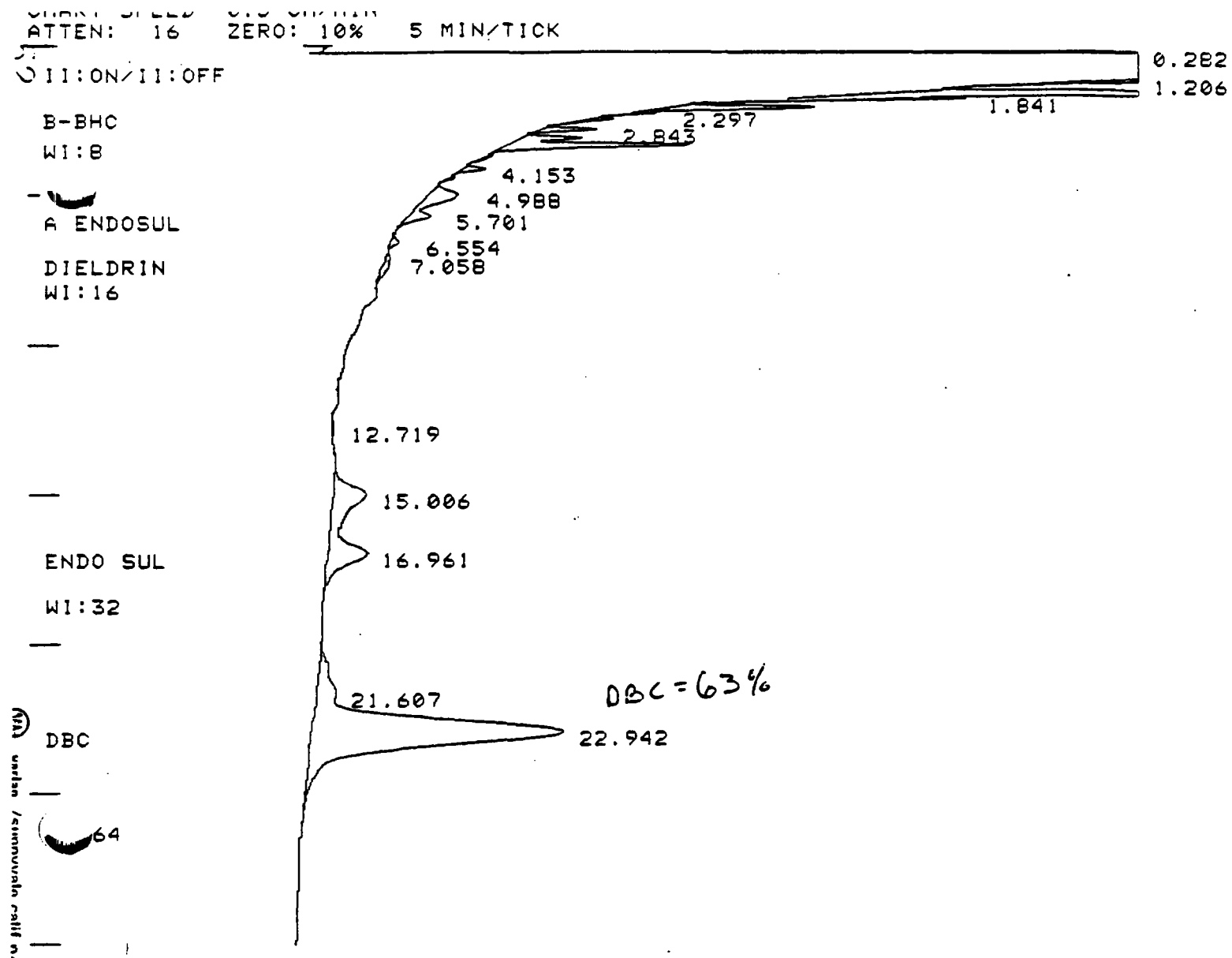
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4



TITLE: RUN # 12 08-68 20:36 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090227 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		139417	BV	?	2.10
2		0.0000	0.337		195269	VB	?	4.80
3		0.0000	0.447		66606	BB	?	0.70
4		0.0000	0.627		130343	BV		2.55
5		0.0000	0.756		17456	VB		1.95
6		0.0000	0.957		1074	BB		1.20
7		0.0000	1.206✓		3183	BB		3.55
8	A-BHC	0.0315	1.615	-0.005	41280	BV		4.80
9		0.0000	1.841✓		1791	T		2.90
10	G-BHC	0.0026	2.106	0.056	2416	BV		7.40
11	B-BHC	0.0007	2.297✓	-0.063	242	T		2.05
12		0.0000	2.494✓		414	BV		3.95
13	D-BHC	0.0017	2.843✓	0.103	959	VV		6.35
14	ALDRIN	0.0015	3.123✓	0.113	1015	VV	?	7.90
15		0.0000	3.367		2960	VV		8.20
16		0.0000	4.153		398	VV		7.50

TITLE: RUN # 12 08-68 20:36 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090227 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		139417	BV	?	2.10
2		0.0000	0.337		195269	VB	?	4.80
3		0.0000	0.447		66606	BB	?	0.70
4		0.0000	0.627		130343	BV		2.55
5		0.0000	0.756		17456	VB		1.95
6		0.0000	0.957		1074	BB		1.20
7		0.0000	1.206		3183	BB		3.55
8	A-BHC	0.0315	1.615	-0.005	41280	BV		4.80
9		0.0000	1.841		1791	T		2.90
10	G-BHC	0.0026	2.106	0.056	2416	BV		7.40
11	B-BHC	0.0007	2.297	-0.063	242	T		2.05
12		0.0000	2.494		414	BV		3.95
13	D-BHC	0.0017	2.843	0.103	959	VV		6.35
14	ALDRIN	0.0015	3.123	0.113	1015	VV	?	7.90
15		0.0000	3.367		2960	VV		8.20
16		0.0000	4.153		398	VV		7.50
17		0.0000	4.423		115	VB		4.60
18		0.0000	4.988		462	BV	?	20.50
19	A ENDOSUL	0.0011	5.701	-0.079	348	VB		9.85
20		0.0000	6.554		109	BB		11.10
21		0.0000	15.006		522	BV	?	48.95
22	ENDO SUL	0.0115	16.961	-0.319	635	VB	?	36.50
23		0.0000	21.607		328	BV	?	54.70
24	DBC	0.0632	22.942	-0.108	3984	VB		53.55
TOTALS:		0.1138		-0.302	611326			

DETECTED PKS: 28 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 18.2 OFFSET: 545

SAVED FILE: P1239

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

53

TITLE: RUN# 12 08-68 20:36 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090227 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		139417	0.09	BV	?	2.10
2		0.0000	0.337		195269	0.11	VB	?	4.80
3		0.0000	0.447		66606	0.15	BB	?	0.70
4		0.0000	0.627		130343	0.21	BV		2.55
5		0.0000	0.756		17456	0.25	VB		1.95
6		0.0000	0.957		1074	0.32	BB		1.20
7		0.0000	1.206		3183	0.40	BB		3.55

varian /sunnyvale.calif p/

mental Protection Agency, CLP Sample Management Office,
box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-68
15090227

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/11/85

Date Analyzed: 11/10/85

Dil Factor: 1

CAS Number	OL X 1	ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

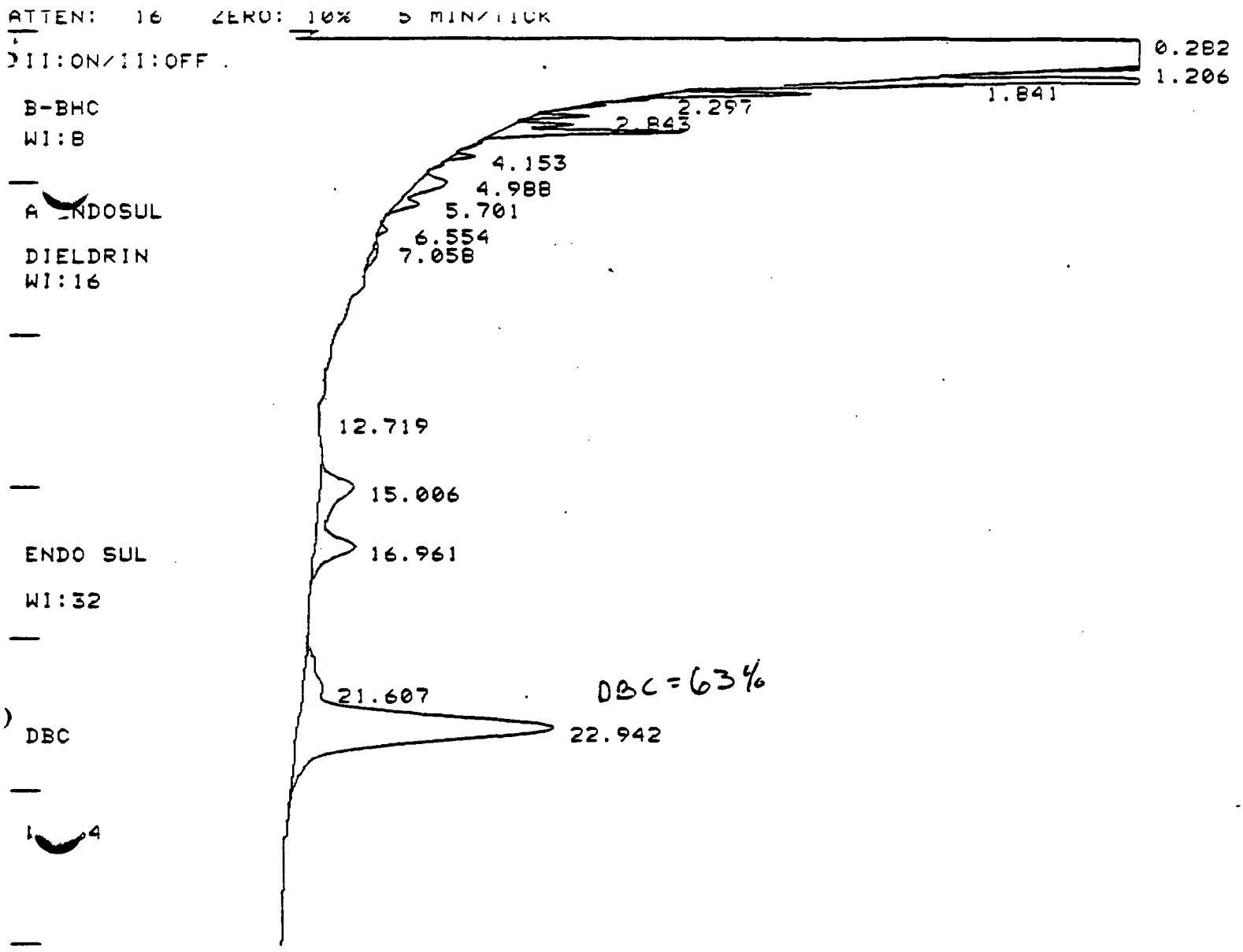
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4



TITLE: RUN # 12 08-68 20:36 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090227 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		139417	BV	?	2.10
2		0.0000	0.337		195269	VB	?	4.80
3		0.0000	0.447		66606	BB	?	0.70
4		0.0000	0.627		130343	BV		2.55
5		0.0000	0.756		17456	VB		1.95
6		0.0000	0.957		1074	BB		1.20
[illegible]		0.0000	1.206✓		3183	BB		3.55
[illegible]	A-BHC	0.0315	1.615✓	-0.005	41280	BV		4.80
[illegible]		0.0000	1.841✓		1791	T		2.90
10	G-BHC	0.0026	2.106	0.056	2416	BV		1.40
11	B-BHC	0.0007	2.297✓	-0.003	242	T		2.05
12		0.0000	2.494✓		412	BV		3.95
13	I-BHC	0.0017	2.843✓	0.103	659	VV		3.35
14	[illegible]	0.0015	3.123✓	0.113	1015	[illegible]	?	1.90
15		0.0000	[illegible]		[illegible]	[illegible]		3.20
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		1.50

TITLE: RUN # 12 08-68 20:36 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090227 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		139417	BV	?	2.10
2		0.0000	0.337		195269	VB	?	4.80
3		0.0000	0.447		66606	BB	?	0.70
4		0.0000	0.627		130343	BV		2.55
5		0.0000	0.756		17456	VB		1.95
6		0.0000	0.957		1074	BB		1.20
7		0.0000	1.206		3183	BB		3.55
8	A-BHC	0.0315	1.615	-0.005	41280	BV		4.80
9		0.0000	1.841		1791	T		2.90
10	G-BHC	0.0026	2.106	0.056	2416	BV		7.40
11	B-BHC	0.0007	2.297	-0.063	242	T		2.05
12		0.0000	2.494		414	BV		3.95
13	D-BHC	0.0017	2.843	0.103	959	VV		6.35
14	ALDRIN	0.0015	3.123	0.113	1015	VV	?	7.90
15		0.0000	3.367		2960	VV		8.20
16		0.0000	4.153		398	VV		7.50
17		0.0000	4.423		115	VB		4.60
18		0.0000	4.988		462	BV	?	20.50
19	A ENDOSUL	0.0011	5.701	-0.079	348	VB		9.85
20		0.0000	6.554		109	BB		11.10
21		0.0000	15.006		522	BV	?	48.95
22	ENDO SUL	0.0115	16.961	-0.319	635	VB	?	36.50
23		0.0000	21.607		328	BV	?	54.70
24	DBC	0.0632	22.942	-0.108	3984	VB		53.55
TOTALS:		0.1138		-0.302	611326			

DETECTED PKS: 28 REJECTED PKS: 4

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 18.2 OFFSET: 545

SAVED FILE: P1239

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 12 08-68 20:36 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090227 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		139417	0.09	BV	?	2.10
2		0.0000	0.337		195269	0.11	VB	?	4.80
3		0.0000	0.447		66606	0.15	BB	?	0.70
4		0.0000	0.627		130343	0.21	BV		2.55
5		0.0000	0.756		17456	0.25	VB		1.95
6		0.0000	0.957		1074	0.32	BB		1.20

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-82 15091774

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/24/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 20

CAS Number		ug /PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 2.0
11104-28-2	Aroclor-1221	< 2.0
11141-16-5	Aroclor-1232	< 2.0
53469-21-9	Aroclor-1242	3.8
12672-29-6	Aroclor-1248	< 2.0
11097-69-1	Aroclor-1254	< 4.0
11096-82-5	Aroclor-1260	< 4.0

V_i = Volume of extract injected (ul)

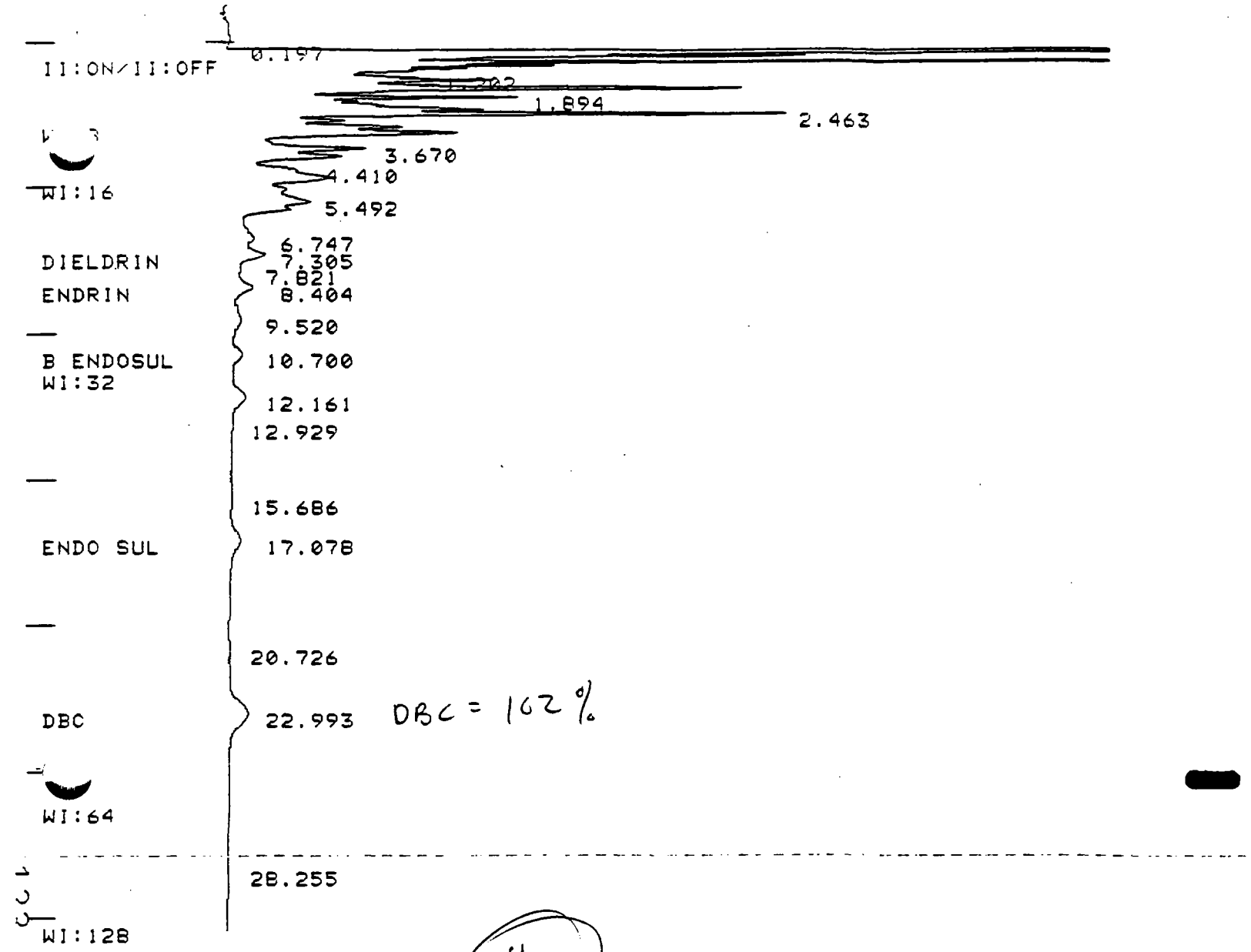
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/20

TITLE: RUN # 36 08-82 7:03 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091774 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		113157	VB		4.65
2		0.0000	0.477		4114	BB		1.90
3		0.0000	0.673		21209	BV		2.30
4		0.0000	0.811		2685	VV		2.60
		0.0000	0.901		1424	VV		2.15
		0.0000	0.978		774	VV		1.60
7		0.0000	1.089		128	VV		1.80
8		0.0000	1.202		1133	VV	?	3.70
9		0.0000	1.305		2421	VV		4.70
10		0.0000	1.477		1714	VV	?	4.80
11	H-BHC	0.0051	1.574	-0.046	6742	VV		6.25
12		0.0000	1.894		3336	VV		4.30
13	G-B-C	0.0009	2.037	-0.013	811	VV	?	5.60

1242 = 2.64 Ht. x .072 x 1 ml x 20 = 3.8 ug

08-82

TITLE: RUN # 36 7:03 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091774 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		113157	VB		4.65
2		0.0000	0.477		4114	BB		1.90
3		0.0000	0.673		21209	BV		2.30
4		0.0000	0.811		2685	VV		2.60
5		0.0000	0.901		1424	VV		2.15
6		0.0000	0.978		774	VV		1.60
7		0.0000	1.089		128	VV		1.80
8		0.0000	1.202		1133	VV	?	3.70
9		0.0000	1.305		2421	VV		4.70
10		0.0000	1.477		1714	VV	?	4.80
11	A-BHC	0.0051	1.574	-0.046	6742	VV		6.25
12		0.0000	1.894		3336	VV		4.30
13	G-BHC	0.0009	~~2.037~~	-0.013	~~811~~	VV	?	5.60
14		0.0000	~~2.147~~		~~1302~~	VV	?	5.60
15	B-BHC	0.0089	~~2.320~~	-0.040	~~3018~~	VV	?	7.20
16		0.0000	2.463		8003	VV	?	3.45
17	D-BHC	0.0016	2.700	-0.040	918	VV		6.15
18		0.0000	2.906		1983	VV	?	6.70
19	ALDRIN	0.0045	3.112	0.102	2984	VV		9.75
20		0.0000	3.670		1671	VV		9.55
21		0.0000	3.933	H = 2.64	1338	VV		11.45
22		0.0000	4.410		665	VV	?	12.30
23		0.0000	4.666		1189	VV	?	21.05
24		0.0000	5.081		599	VV	?	15.30
25		0.0000	5.492		1006	VV	?	29.50
	A ENDOSUL	0.0024	5.750	-0.030	723	VV	?	13.90
		0.0000	6.747		198	VV	?	28.15
28	DIELDRIN	0.0016	7.305	0.195	403	VV		17.20
29	ENDRIN	0.0014	8.404	-0.226	245	VB		19.95
30		0.0000	9.520		100	BV		22.15
31	B ENDOSUL	0.0009	10.700	0.100	138	VB		25.40
32		0.0000	12.161		209	BV		31.45
33	ENDO SUL	0.0028	17.078	-0.202	157	VB		42.40
34	DBC	0.0051	22.993	-0.057	320	VB		52.55
TOTALS:		0.0352		-0.257	186817			

DETECTED PKS: 40 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 48

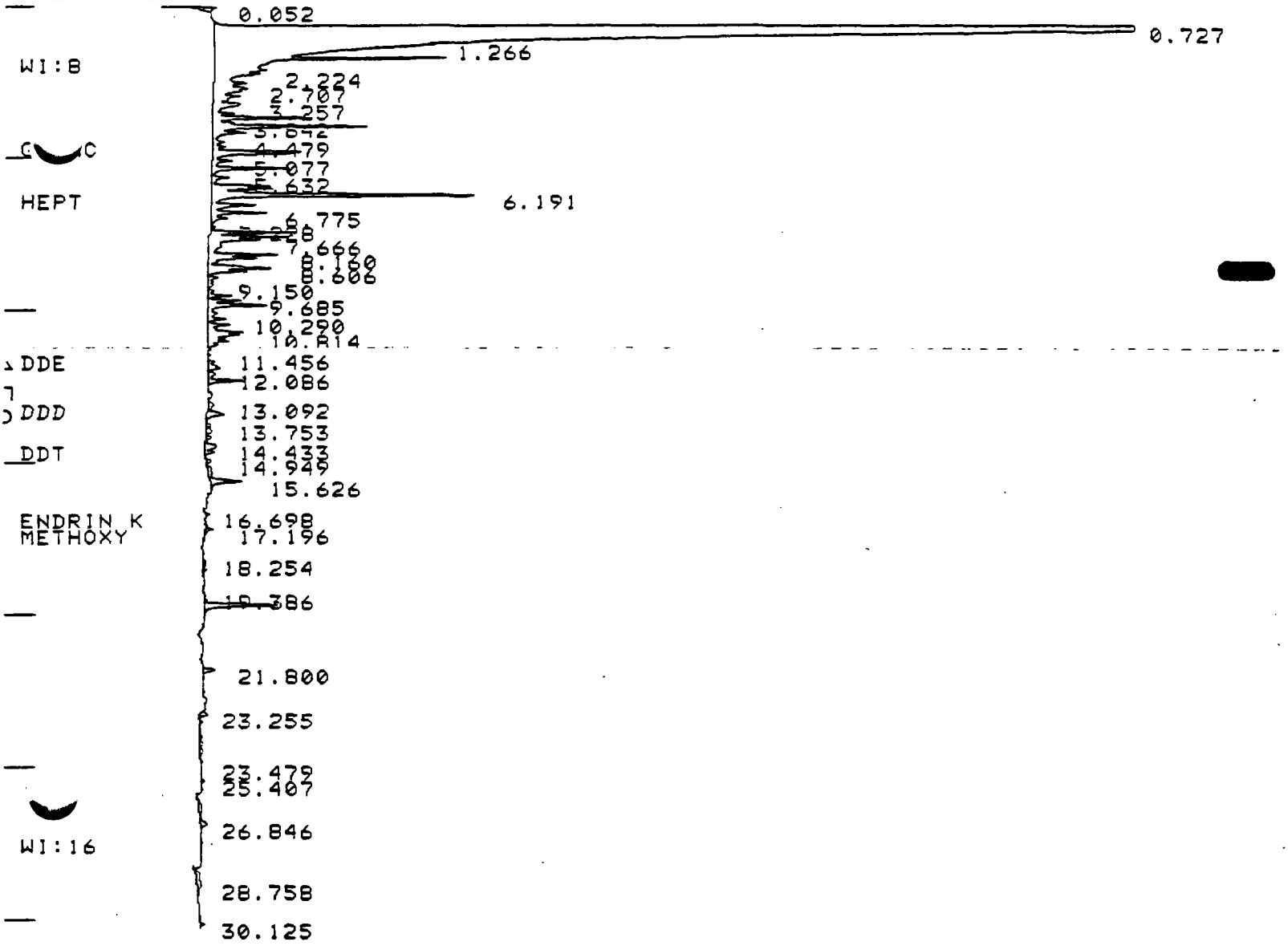
RACK: 2 VIAL: 12 INJ: 1

SAVED FILE: P1210

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 7:03 7 NOV 85

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



TITLE: RUN# 25 08-82 10:24 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091774 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3932	0.01	BB	?	3.10
2		0.0000	0.727		1246140	0.09	BV		6.35
3		0.0000	1.266		107361	0.16	VV	?	29.20
4		0.0000	1.716		43958	0.22	VV		4.25
5		0.0000	1.906		7959	0.24	VV	?	0.70
		0.0000	1.967		4254	0.25	VV	?	
		0.0000	2.052		5317	0.26	VV	?	3.00
8		0.0000	2.116		8723	0.27	VV	?	3.40
9		0.0000	2.224		14050	0.28	VV	?	11.35
10		0.0000	2.532		8934	0.32	VV	?	6.30
11		0.0000	2.707		7511	0.34	VV	?	7.20
12		0.0000	2.804		5203	0.35	VV	?	7.25
13		0.0000	2.969		5612	0.38	VV		6.95
14		0.0000	3.059		2465	0.39	VV	?	
15		0.0000	[illegible]		[illegible]	0.41	VV		5.55

TITLE: RUN# 25 08-82 10:24 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091774 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3932	0.01	BB	?	3.10
		0.0000	0.727		1246140	0.09	BV		6.35
		0.0000	1.266		107361	0.16	VV	?	29.20
4		0.0000	1.716		43958	0.22	VV		4.25
5		0.0000	1.906		7959	0.24	VV	?	0.70
6		0.0000	1.967		4254	0.25	VV	?	
7		0.0000	2.052		5317	0.26	VV	?	3.00
8		0.0000	2.116		8723	0.27	VV	?	3.40
9		0.0000	2.224		14050	0.28	VV	?	11.35
10		0.0000	2.532		8934	0.32	VV	?	6.30
11		0.0000	2.707		7511	0.34	VV	?	7.20
12		0.0000	2.804		5203	0.35	VV	?	7.25
13		0.0000	2.969		5612	0.38	VV		6.95
14		0.0000	3.059		2465	0.39	VV	?	
15		0.0000	3.257		8954	0.41	VV		9.55
16		0.0000	3.535		4513	0.45	VV		4.50
17	A-BHC	0.0034	3.670	-0.030	14788	0.46	VV		4.00
18		0.0000	3.842		2948	0.49	VV	?	5.20
19		0.0000	3.952		26188	0.50	VV		4.35
20	B-BHC	0.0054	4.162	-0.188	7243	0.53	VV		4.85
21	G-BHC	0.0008	4.479	-0.031	2971	0.57	VV		5.75
22		0.0000	4.617		2664	0.58	VV		5.45
23		0.0000	4.779		20957	0.61	VV		6.35
24	D-BHC	0.0011	5.077	-0.123	3662	0.64	VV		3.90
25		0.0000	5.327		11988	0.68	VV		3.40
26		0.0000	5.632		3583	0.71	VV		3.95
27		0.0000	5.897		7499	0.75	VV	?	3.60
28		0.0000	5.972		8589	0.76	VV	?	4.90
29		0.0000	6.191		51421	0.78	VV		4.90
30		0.0000	6.523		9529	0.83	VV		5.00
31	HEPT	0.0039	6.775	0.115	8838	0.86	VV		3.80
		0.0000	6.949		3665	0.88	VV		4.25
		0.0000	7.228		1231	0.92	VV		3.60
34		0.0000	7.418		12341	0.94	VV		4.05
35		0.0000	7.571		10516	0.96	VV		3.90
36		0.0000	7.666		8365	0.97	VV	?	5.20
37	ALDRIN	0.0015	7.893	0.063	5250	1.00	VV	?	6.15
38		0.0000	8.160		9743	1.03	VV		4.00
39		0.0000	8.273		7542	1.05	VV	?	4.60
40		0.0000	8.394		1171	1.06	VV	?	3.75
41		0.0000	8.606		12868	1.09	VV		5.90
42		0.0000	8.715		5146	1.10	VV		3.90
43		0.0000	8.912		1605	1.13	VV		3.90
44	HEPT EP	0.0013	9.524	0.134	3358	1.21	VV		3.90
45		0.0000	9.685		4883	1.23	VV		4.50
46		0.0000	9.836		10955	1.25	VV		5.35
47		0.0000	10.097		2414	1.28	VV	?	4.40
48		0.0000	10.290		2694	1.30	VV		4.20
49		0.0000	10.476		3583	1.33	VV		4.45
50		0.0000	10.593		1005	1.34	VV	?	3.20
51		0.0000	10.720		6065	1.36	VV	?	5.10
52	A ENDO	0.0016	10.814	0.044	4330	1.37	VV	?	3.15
53		0.0000	10.918		2333	1.38	VV	?	3.80
54		0.0000	11.013		2950	1.39	VV	?	4.60
55		0.0000	11.133		1705	1.41	VV	?	4.65
56		0.0000	11.672		1032	1.48	VV		4.25
57		0.0000	11.808		1023	1.50	VV	?	3.90
58	DIELDRIN	0.0008	11.881	0.031	1987	1.50	VV	?	4.95
59	DDE	0.0007	12.086	-0.044	1836	1.53	VV		6.20
60		0.0000	12.298		5220	1.56	VB		4.15
61	B ENDO	0.0007	13.092	-0.048	1689	1.66	BV		7.65
		0.0000	13.411		4674	1.70	VV		7.95
		0.0000	13.753		1049	1.74	VV	?	4.00
64	DDD	0.0010	13.824	-0.076	1918	1.75	VV	?	
65	END ALD	0.0006	14.159	0.149	1145	1.79	VV		4.50
66		0.0000	14.433		2463	1.83	VV	?	5.50
67		0.0000	14.477		1397	1.83	VV	?	7.80
68		0.0000	14.641		1823	1.86	VV		3.85
69	ENDO SO4	0.0006	14.949	-0.09[illegible]	1327	1.89	VV		9.95
70		0.0000	15.337		2003	1.94	VV		4.40
71	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

Run # 25
08-87
1509174

14		0.0000	3.059		2465	0.39	VV	?	
15		0.0000	3.257		8954	0.41	VV		9.55
16		0.0000	3.535		4513	0.45	VV		4.50
17	A-BHC	0.0034	3.670	-0.030	14788	0.46	VV		4.00
18		0.0000	3.842		2948	0.49	VV	?	5.20
19		0.0000	3.952		26188	0.50	VV		4.35
20	B-BHC	0.0054	4.162	-0.188	7243	0.53	VV		4.85
	G-BHC	0.0008	4.479	-0.031	2971	0.57	VV		5.75
		0.0000	4.617		2664	0.58	VV		5.45
23		0.0000	4.779		20957	0.61	VV		6.35
24	D-BHC	0.0011	5.077	-0.123	3662	0.64	VV		3.90
25		0.0000	5.327		11988	0.68	VV		3.40
26		0.0000	5.632		3583	0.71	VV		3.95
27		0.0000	5.897		7499	0.75	VV	?	3.60
28		0.0000	5.972		8589	0.76	VV	?	4.90
29		0.0000	6.191		51421	0.78	VV		4.90
30		0.0000	6.523		9529	0.83	VV		5.00
31	HEPT	0.0039	6.775	0.115	8838	0.86	VV		3.80
32		0.0000	6.949		3665	0.88	VV		4.25
33		0.0000	7.228		1231	0.92	VV		3.60
34		0.0000	7.418		12341	0.94	VV		4.05
35		0.0000	7.571		10516	0.96	VV		3.90
36		0.0000	7.666		8365	0.97	VV	?	5.20
37	ALDRIN	0.0015	7.893	0.063	5250	1.00	VV	?	6.15
38		0.0000	8.160		9743	1.03	VV		4.00
39		0.0000	8.273		7542	1.05	VV	?	4.60
40		0.0000	8.394		1171	1.06	VV	?	3.75
41		0.0000	8.606		12868	1.09	VV		5.90
42		0.0000	8.715		5146	1.10	VV		3.90
43		0.0000	8.912		1605	1.13	VV		3.90
44	HEPT EP	0.0013	9.524	0.134	3358	1.21	VV		3.90
45		0.0000	9.685		4883	1.23	VV		4.50
46		0.0000	9.836		10955	1.25	VV		5.35
47		0.0000	10.097		2414	1.28	VV	?	4.40
48		0.0000	10.290		2694	1.30	VV		4.20
49		0.0000	10.476		3583	1.33	VV		4.45
50		0.0000	10.593		1005	1.34	VV	?	3.20
[illegible]		0.0000	10.720		6065	1.36	VV	?	5.10
[illegible]	A ENDO	0.0016	10.814	0.044	4330	1.37	VV	?	3.15
[illegible]		0.0000	10.918		2333	1.38	VV	?	3.80
54		0.0000	11.013		2950	1.39	VV	?	4.60
55		0.0000	11.133		1705	1.41	VV	?	4.65
56		0.0000	11.672		1032	1.48	VV		4.25
57		0.0000	11.808		1023	1.50	VV	?	3.90
58	DIELDRIN	0.0008	11.881	0.031	1987	1.50	VV	?	4.95
59	DDE	0.0007	12.086	-0.044	1836	1.53	VV		6.20
60		0.0000	12.298		5220	1.56	VB		4.15
61	B ENDO	0.0007	13.092	-0.048	1689	1.66	BV		7.65
62		0.0000	13.411		4674	1.70	VV		7.95
63		0.0000	13.753		1049	1.74	VV	?	4.00
64	DDD	0.0010	13.824	-0.076	1918	1.75	VV	?	
65	END ALD	0.0006	14.159	0.149	1145	1.79	VV		4.50
66		0.0000	14.433	.	2463	1.83	VV	?	5.50
67		0.0000	14.477		1397	1.83	VV	?	7.80
68		0.0000	14.641		1823	1.86	VV		3.85
69	ENDO SO4	0.0006	14.949	-0.091	1327	1.89	VV		9.95
70		0.0000	15.337		2003	1.94	VV		4.40
71	DDT	0.0044	15.626	0.136	7642	1.98	VB		7.00
72	ENDRIN K	0.0009	17.196	0.306	2338	2.18	BB		4.85
73	METHOXY	0.0021	18.533	0.253	1445	2.35	VB	?	6.05
74	SURROGATE	0.0061	19.699	-0.051	13901	2.50	VB		5.15
75		0.0000	21.800		2704	2.76	BV		6.05
76		0.0000	23.255		1064	2.95	BB		3.80
77		0.0000	23.479		6445	2.97	BB	?	
78		0.0000	26.846		6864	3.40	BB	?	14.40
79		0.0000	28.758		6650	3.64	BV	?	17.50
80		0.0000	30.125		2141	3.82	VB	?	9.50
T[illegible]S:		0.0369		0.549	1875250				

DETECTED PKS: 90 REJECTED PKS: 10

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 27.9 OFFSET: -215

BC#6, SPB-5, 2ul inject

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-86 15091775

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/24/85

Date Analyzed: 11/10/85

Conc/Dil Factor: 1

CAS Number		ug/ PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	<0.1
11104-28-2	Aroclor-1221	<0.1
11141-16-5	Aroclor-1232	<0.1
53469-21-9	Aroclor-1242	<0.1
12672-29-6	Aroclor-1248	<0.1
11097-69-1	Aroclor-1254	<0.2
11096-82-5	Aroclor-1260	<0.2

V_i = Volume of extract injected (ul)

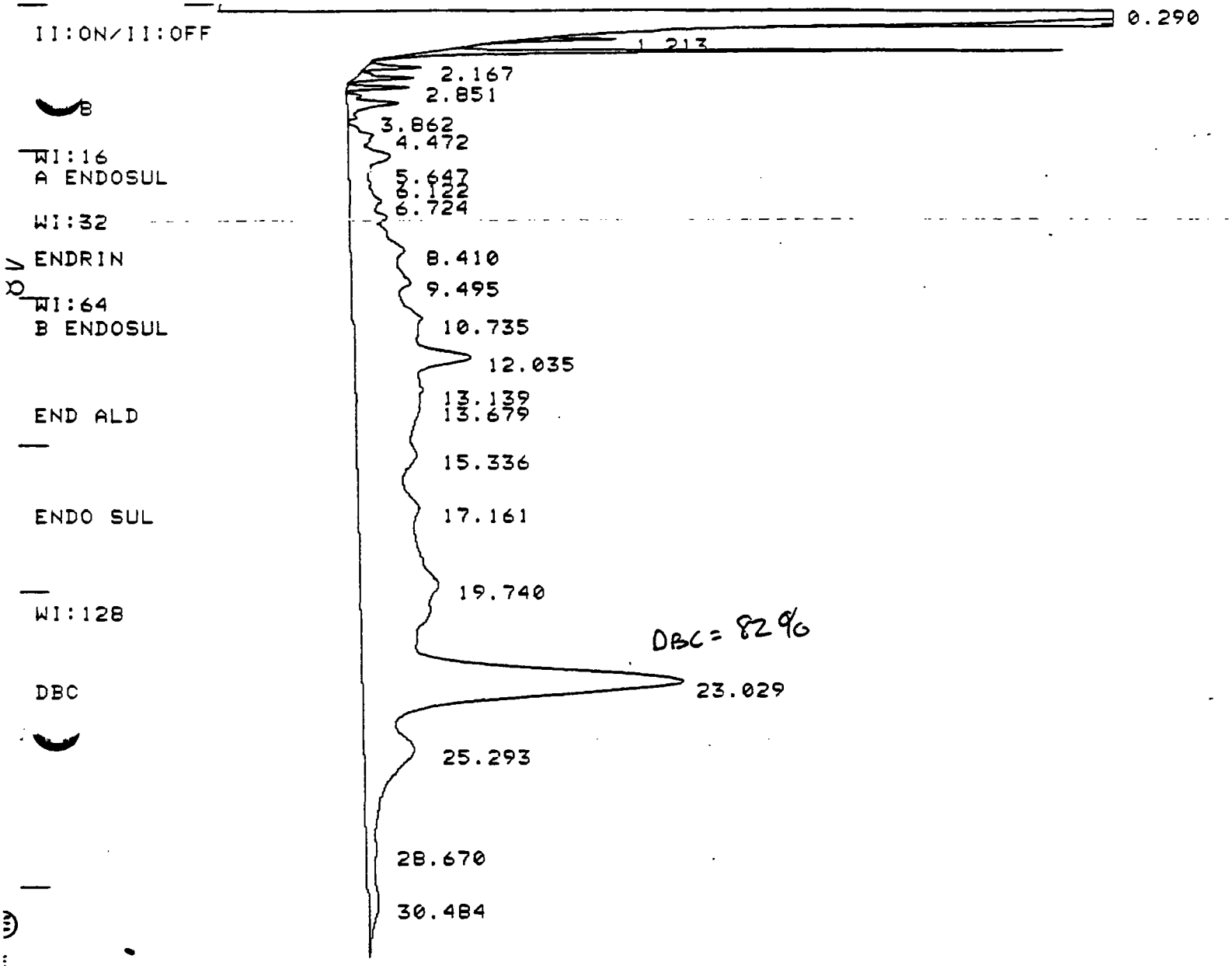
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



,118 × 0.49 ×

TITLE: RUN # 11 0986 1775 19:40 10 NOV 85

CHANNEL NO: 2 SAMPLE: 1509~~1575~~ RWL METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.290		158270	BV	?	2.60
2		0.0000	0.330		216698	VB	?	4.45
3		0.0000	0.454		87815	BB		1.80
4		0.0000	0.632		109233	BV		2.40
5		0.0000	0.761		29893	VB		2.25
6		0.0000	1.213		1271	BB		2.95
7	A-BHC	0.0077	1.622	0.002	10092	BB		4.30
8		0.0000	2.167		896	BV		6.60
9	B-BHC	0.0007	2.377	0.017	244	VV	?	4.30
10		0.0000	2.515		955	VV		6.55
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	?	[illegible]

,118 × 0.49 ×

FILE: RUN # 11 08-86 19:40 10 NOV 85

CHANNEL NO: 2 SAMPLE: 1509 ~~1575~~ 1775 RWL METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.290		158270	BV	?	2.60
2		0.0000	0.330		216698	VB	?	4.45
3		0.0000	0.454		87815	BB		1.80
4		0.0000	0.632		109233	BV		2.40
5		0.0000	0.761		29893	VB		2.25
6		0.0000	1.213		1271	BB		2.95
7	A-BHC	0.0077	1.622	0.002	10092	BB		4.30
8		0.0000	2.167		896	BV		6.60
9	B-BHC	0.0007	2.377	0.017	244	VV	?	4.30
10		0.0000	2.515		955	VV		6.55
11	D-BHC	0.0017	2.851	0.111	991	VV	?	7.25
12	ALDRIN	0.0004	3.139	0.129	234	VV	?	8.60
13		0.0000	3.383		835	VV		13.00
14		0.0000	3.862	0.49	150	VV	?	11.55
15		0.0000	4.255		162	VV	?	13.40
16		0.0000	4.472		401	VV	?	14.70
17		0.0000	~~4.586~~		340	VV	?	
18		0.0000	4.636		338	VV	?	
19		0.0000	5.173		686	VV	?	29.20
20	A ENDOSUL	0.0011	5.647	-0.133	344	VV	?	6.10
21		0.0000	6.122		342	VV	?	26.30
22		0.0000	6.724		493	VV	?	29.70
[illegible]	DIELDRIN	0.0025	7.284	0.174	606	VV	?	28.10
[illegible]	ENDRIN	0.0050	8.410	-0.220	871	VV	?	57.60
25		0.0000	9.495		940	VV	?	59.80
26	B ENDOSUL	0.0072	10.735	0.135	1093	VV	?	96.60
27		0.0000	11.091		1034	VV	?	
28		0.0000	12.035		1886	VV	?	67.10
29		0.0000	13.139		1069	VV	?	46.00
30	END ALD	0.0158	13.679	-0.431	1038	VV	?	3.20
31		0.0000	15.336		963	VV	?	53.60
32	ENDO SUL	0.0179	17.161	-0.119	990	VV	?	106.20
33		0.0000	19.740		1247	VV	?	114.90
34		0.0000	20.539		1117	VV	?	16.00
35	DBC	0.0824	23.029	-0.021	5193	VV		63.25
36		0.0000	25.293		804	VV	?	187.20
37		0.0000	28.670		161	VV	?	41.00
38		0.0000	30.484		185	VB	?	83.20
TOTALS:		0.1424		-0.356	639880			

DETECTED PKS: 38 REJECTED PKS: 0

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 4.9 OFFSET: 26

SAVED FILE: P1238

NOTES:
4 UL INJECTION
5%SP2250/1.95%SP2401
=2

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Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-88 15091776

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/25/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 40

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 4.0
11104-28-2	Aroclor-1221	< 4.0
11141-16-5	Aroclor-1232	< 4.0
53469-21-9	Aroclor-1242	11
12672-29-6	Aroclor-1248	< 4.0
11097-69-1	Aroclor-1254	< 8.0
11096-82-5	Aroclor-1260	< 8.0

V_i = Volume of extract injected (ul)

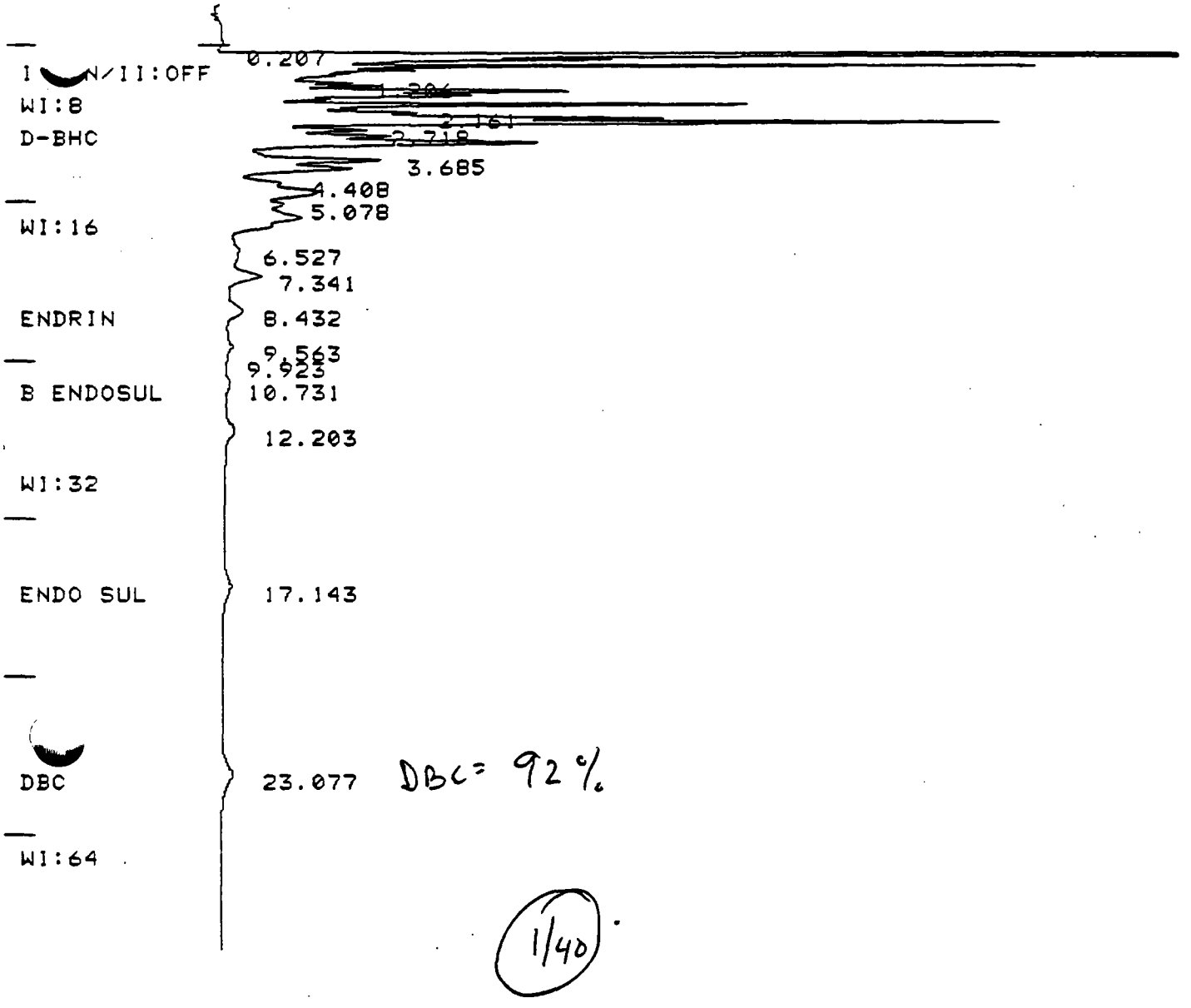
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1242: 3.87 Ht. x 1072 µg/ml Ht. x 1 ml x 40 = 11 µg

TITLE: RUN # 37 08-88 8:09 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091776 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.301		98496	VB		4.50
2		0.0000	0.477		2245	BB		1.85
3		0.0000	0.676		10362	BV		2.35
		0.0000	0.816		1288	VV		2.10
		0.0000	0.905		428	VV		1.90
6		0.0000	0.985		367	VB		1.80
7		0.0000	1.206		876	BV		3.60
8		0.0000	1.310		1343	VV		3.85
9		0.0000	1.479		4201	VV		6.00
10	A-BHC	0.0021	1.609	-0.011	2796	VV	?	7.55
11		0.0000	1.737		717	VV	?	4.55
12		0.0000	1.904		7008	VV		4.55

DBC 23.077 DBC = 92%

WI:64

1/40

1242: 3.87 μHt. x .072 μg/ml Ht. x 1ml x 40 = 11 μg

TITLE: RUN # 37 08-88 8:09 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091776 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.301		98496	VB		4.50
2		0.0000	0.477		2245	BB		1.85
3		0.0000	0.676		10362	BV		2.35
4		0.0000	0.816		1288	VV		2.10
5		0.0000	0.905		428	VV		1.90
6		0.0000	0.985		367	VB		1.80
7		0.0000	1.206		876	BV		3.60
8		0.0000	1.310		1343	VV		3.85
9		0.0000	1.479		4201	VV		6.00
10	A-BHC	0.0021	1.609	-0.011	2796	VV	?	7.55
11		0.0000	1.737		717	VV	?	4.55
		0.0000	1.904		7008	VV		4.55
	G-BHC	0.0013	~~2.036~~	-0.014	~~1174~~	VV	?	3.10
14		0.0000	2.161		2127	VV	?	5.70
15	B-BHC	0.0174	2.342	-0.018	5877	VV	?	7.30
16		0.0000	2.474		10947	VV	?	3.60
17	D-BHC	0.0027	2.718	-0.022	1547	VV		6.80
18	ALDRIN	0.0029	2.912	-0.098	1943	VV	?	6.80
19		0.0000	3.125		4195	VV		9.70
20		0.0000	3.685	H=3.87	1945	VV		9.75
21		0.0000	3.941		1550	VV		11.35
22		0.0000	4.408		569	VV	?	10.50
23		0.0000	4.716		1142	VV	?	20.85
24		0.0000	5.078		687	VV	?	13.80
25		0.0000	5.516		1001	VV	?	24.85
26	A ENDOSUL	0.0019	5.766	-0.014	580	VV	?	12.35
27		0.0000	6.527		114	VV	?	15.20
28	DIELDRIN	0.0018	7.341	0.231	451	VB		16.80
29	ENDRIN	0.0013	8.432	-0.198	217	BB		20.05
30		0.0000	12.203		126	VB	?	31.65
31	ENDO SUL	0.0021	17.143	-0.137	116	BB		43.30
32	DBC	0.0023	23.077	0.027	143	BB		50.40
TOTALS:		0.0358		-0.254	166598			

128

DETECTED PKS: 37 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

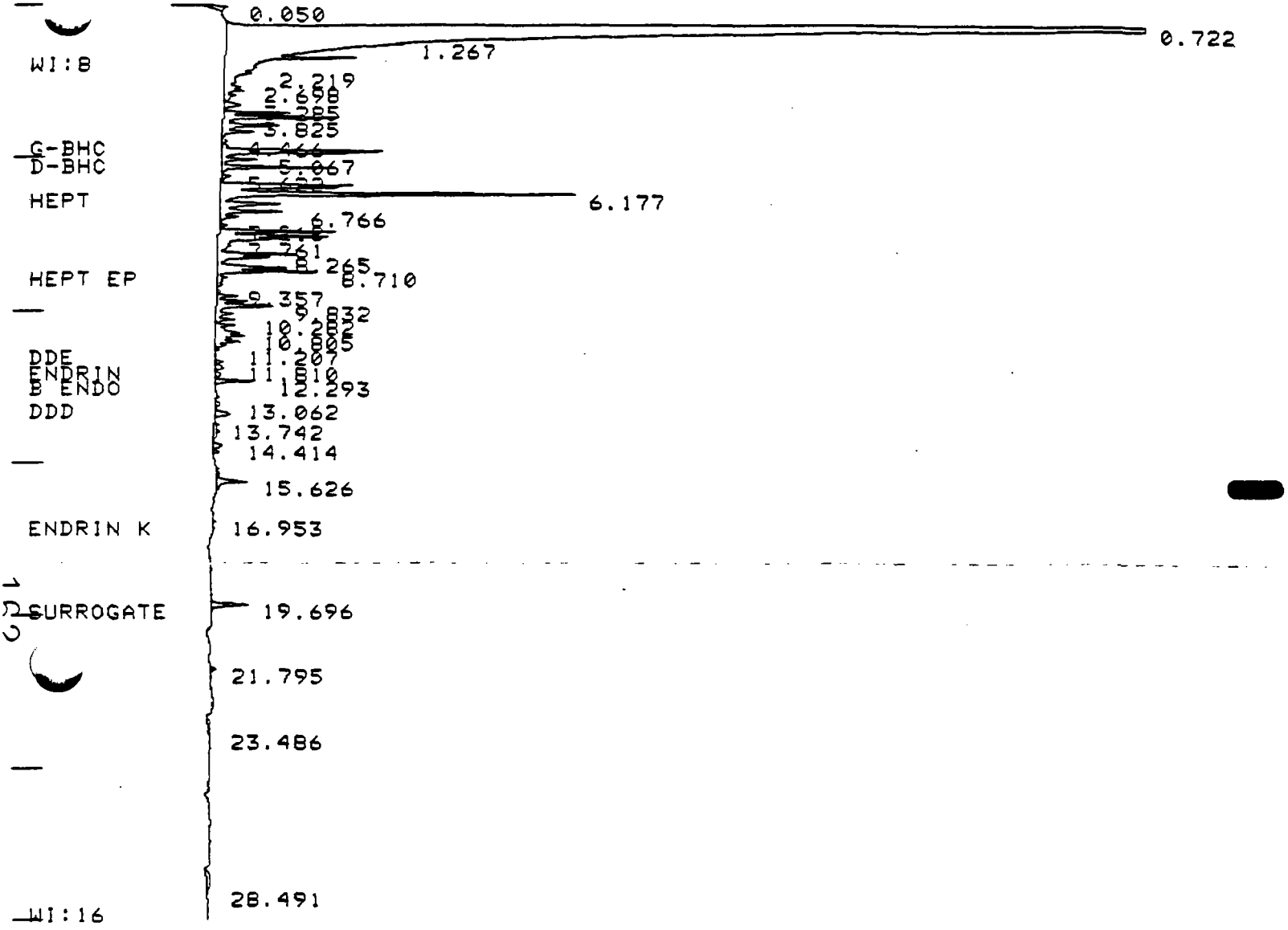
NOISE: 1.2 OFFSET: 34

RA 2 VIAL: 14 INJ: 1

SAVED FILE: P1212

NOTES:
4 UL INJECTION
1.5%SP2250 1.95%SP2401
GC #2

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



GC#6, SPB-5, 2ul INJECTED

TITLE: RUN# 26 08-88 11:01 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091776 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
		0.0000	0.050		3866	0.01	BB	?	2.90
		0.0000	0.722		983632	0.09	BV		6.15
3		0.0000	1.267		83879	0.16	VV	?	37.55
4		0.0000	1.711		32229	0.22	VV		5.05
5		0.0000	1.960		2669	0.25	VV	?	
6		0.0000	2.047		8595	0.26	VV	?	2.90
7		0.0000	2.219		8340	0.28	VV	?	4.65
8		0.0000	2.527		3793	0.32	VV	?	3.70
9		0.0000	2.698		3550	0.34	VV	?	4.35
		0.0000	2.806		3339	0.36	VV	?	4.60

TITLE: RUN# 26 11:01 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091776 METHOD: 6B P

Run #26
15091776
08-88

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.050		3866	0.01	BB	?	2.90
2		0.0000	0.722		983632	0.09	BV		6.15
3		0.0000	1.267		83879	0.16	VV	?	37.55
4		0.0000	1.711		32229	0.22	VV		5.05
5		0.0000	1.960		2669	0.25	VV	?	
6		0.0000	2.047		8595	0.26	VV	?	2.90
7		0.0000	2.219		8340	0.28	VV	?	4.65
8		0.0000	2.527		3793	0.32	VV	?	3.70
9		0.0000	2.698		3550	0.34	VV	?	4.35
10		0.0000	2.806		3329	0.36	VV	?	4.60
11		0.0000	2.961		2386	0.38	VV		6.45
12		0.0000	3.285		4907	0.42	VV		6.80
13		0.0000	3.526		8535	0.45	VV		3.65
14	A-BHC	0.0038	3.659	-0.041	16549	0.46	VV		3.95
15		0.0000	3.825		1466	0.48	VV	?	3.40
16		0.0000	3.942		10624	0.50	VV	?	2.65
17	B-BHC	0.0042	4.154	-0.196	5624	0.53	VV		4.00
18	G-BHC	0.0004	4.466	-0.044	1365	0.57	VV		4.35
19		0.0000	4.653		1471	0.59	VV	?	9.00
20		0.0000	4.771		35605	0.60	VV		6.55
21		0.0000	5.067		5576	0.64	VV		3.65
22	D-BHC	0.0045	5.317	0.117	14739	0.67	VV		3.50
23		0.0000	5.622		2431	0.71	VV		4.40
24		0.0000	5.887		16064	0.75	VV	?	3.70
25		0.0000	5.961		15381	0.75	VV	?	4.55
26		0.0000	6.177		65423	0.78	VV		4.80
27		0.0000	6.519		12953	0.83	VV		5.20
28	HEPT	0.0045	6.766	0.106	10304	0.86	VV		4.00
29		0.0000	6.939		3954	0.88	VV		4.50
30		0.0000	7.218		1409	0.91	VV		3.45
31		0.0000	7.407		15986	0.94	VV		3.85
32		0.0000	7.561		15142	0.96	VV		4.10
33		0.0000	7.657		9915	0.97	VV	?	4.95
34		0.0000	7.761		1693	0.98	VV	?	
35	ALDRIN	0.0010	7.893	0.063	3423	1.00	VV	?	11.70
36		0.0000	8.150		11064	1.03	VV		4.10
37		0.0000	8.265		8803	1.05	VV	?	4.70
38		0.0000	8.594		12850	1.09	VV		5.25
39		0.0000	8.710		12921	1.10	VV		3.75
40		0.0000	8.905		1636	1.13	VV		3.45
41	HEPT EP	0.0011	9.517	0.127	2880	1.21	VV		4.05
42		0.0000	9.678		4287	1.23	VV		4.30
43		0.0000	9.832		10851	1.25	VV		5.35
44		0.0000	10.095		3040	1.28	VV		4.35
45		0.0000	10.282		2871	1.30	VV		4.45
46		0.0000	10.469		2629	1.33	VV		4.00
47		0.0000	10.579		1126	1.34	VV	?	3.50
48		0.0000	10.708		4461	1.36	VV	?	7.20
49	A ENDO	0.0016	10.805	0.035	4311	1.37	VV	?	5.30
50		0.0000	10.908		2088	1.38	VV	?	3.00
51		0.0000	11.005		3526	1.39	VV	?	2.45
52		0.0000	11.122		1596	1.41	VV	?	4.30
53		0.0000	11.663		1077	1.48	VV		3.85
54	DIELDRIN	0.0005	11.874	0.024	1196	1.50	VV	?	4.30
55	DDE	0.0005	12.057	-0.073	1299	1.53	VV		8.60
56		0.0000	12.293		5731	1.56	VB		4.25
57	B ENDO	0.0005	13.062	-0.078	1085	1.65	BV		8.90
58		0.0000	13.399		4704	1.70	VV		8.10
59		0.0000	13.742		1045	1.74	VV	?	3.70
60	DDD	0.0007	13.840	-0.060	1391	1.75	VV	?	
61	END ALD	0.0006	14.043	0.033	1263	1.78	VV	?	19.50
62		0.0000	14.414		2303	1.83	VV		8.75
	ENDO SO4	0.0006	14.634	-0.406	1171	1.85	VB		4.60
	DDT	0.0034	15.626	0.136	5800	1.98	BB		5.25
65	SURROGATE	0.0030	19.696	-0.054	6875	2.49	BB		5.30
66		0.0000	21.795		1366	2.76	BB		5.25
67		0.0000	23.486		2239	2.98	BB	?	
68		0.0000	28.491		5311	3.61	BB	?	39.05
TOTALS:		0.0335		-0.311	1551600				

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-89 15091777

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/25/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 5

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	1.4
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

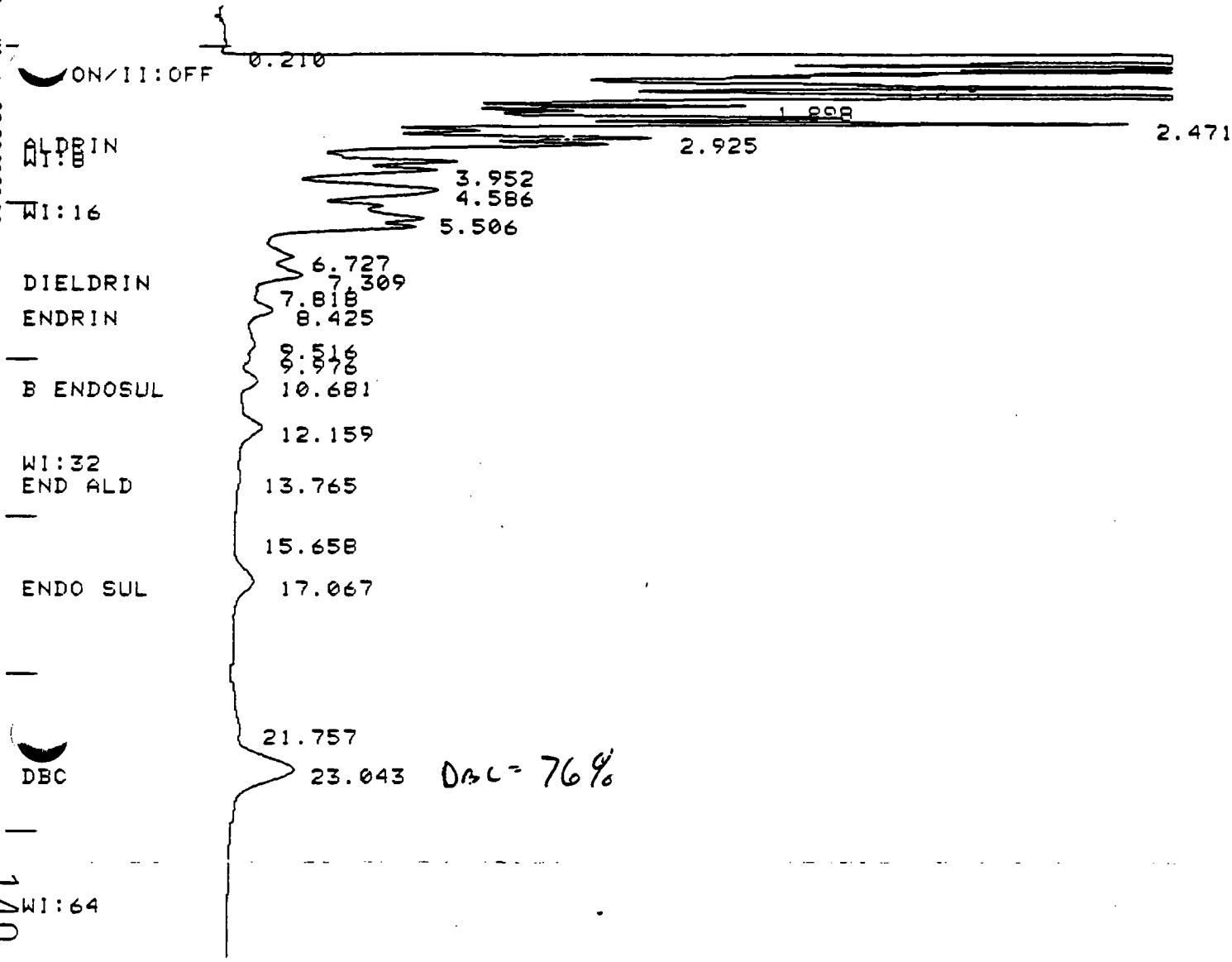
W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

urlan /sunnyvale,calif.p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



140

(1/5)

1242 = 3.65 x .075 x 1 ml x 5 = ~~0.38~~ ~~1.38~~ 1.4 µg KS

08-89

TITLE: RUN # 38 8:41 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091777 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.331		167771	VB		5.00
2		0.0000	0.476		6750	BV		2.00
3		0.0000	0.564		1266	VV		1.45
4		0.0000	0.676		52833	VV		3.00
5		0.0000	0.813		9263	VV		2.95
6		0.0000	0.902		4139	VV		2.20
7		0.0000	0.984		2756	VV		1.90
8		0.0000	1.215		4716	VV	?	4.90
9		0.0000	1.308		8843	VV		5.15
10		0.0000	1.485		[illegible]	VV	?	4.10
11	--BHC	0.0313	1.590	-0.040	[illegible]	[illegible]		[illegible]

WI:64

(1/5)

1242 = 3.68 x .075 x 1 ml x 5 = ~~0.138~~ ~~1.38~~ 1.4 ug KS

08-89

TITLE: RUN # 38 8:41 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091777 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.331		167771	VB		5.00
2		0.0000	0.476		6750	BV		2.00
3		0.0000	0.564		1266	VV		1.45
4		0.0000	0.676		52833	VV		3.00
5		0.0000	0.813		9263	VV		2.95
6		0.0000	0.902		4139	VV		2.20
7		0.0000	0.984		2756	VV		1.90
8		0.0000	1.215		4716	VV	?	4.90
9		0.0000	1.308		10842	VV		5.15
10		0.0000	1.485		3699	VV	?	4.10
11	A-BHC	0.0212	1.580	-0.040	27836	VV		6.20
12		0.0000	1.898		4085	VV		4.15
13	G-BHC	0.0019	~~2.050~~	0.000	1729	VV		4.20
14	B-BHC	0.0182	2.272	-0.088	6165	VV		8.20
15		0.0000	2.471		10812	VV		5.35
[illegible]	D-BHC	0.0022	2.696	-0.044	1300	VV		5.95
[illegible]	ALDRIN	0.0063	2.925	-0.085	4226	VV		7.75
18		0.0000	3.124		3838	VV	?	9.30
19		0.0000	3.493	H=3.68	282	VV	?	7.10
20		0.0000	3.679		2089	VV		9.70
21		0.0000	3.952		1884	VV		12.15
22		0.0000	4.586		2121	VV	?	23.15
23		0.0000	5.100		1418	VV	?	13.70
24		0.0000	5.506		2138	VV	?	29.10
25	A ENDOSUL	0.0069	5.766	-0.014	2099	VB	?	14.70
26		0.0000	6.727		414	BV		18.70
27	DIELDRIN	0.0026	7.309	0.199	638	VV		20.60
28	ENDRIN	0.0019	8.425	-0.205	326	VB		19.30
29		0.0000	9.516		136	BV		21.10
30	B ENDOSUL	0.0015	10.681	0.081	229	VV		24.55
31		0.0000	12.159		337	VB	?	32.70
32	ENDO SUL	0.0056	17.067	-0.213	308	VB		46.80
33		0.0000	21.757		140	BV	?	56.20
34	DBC	0.0151	23.043	-0.007	953	VB		55.00
TOTALS:		0.0834		-0.416	339538			

DETECTED PKS: 39 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 45

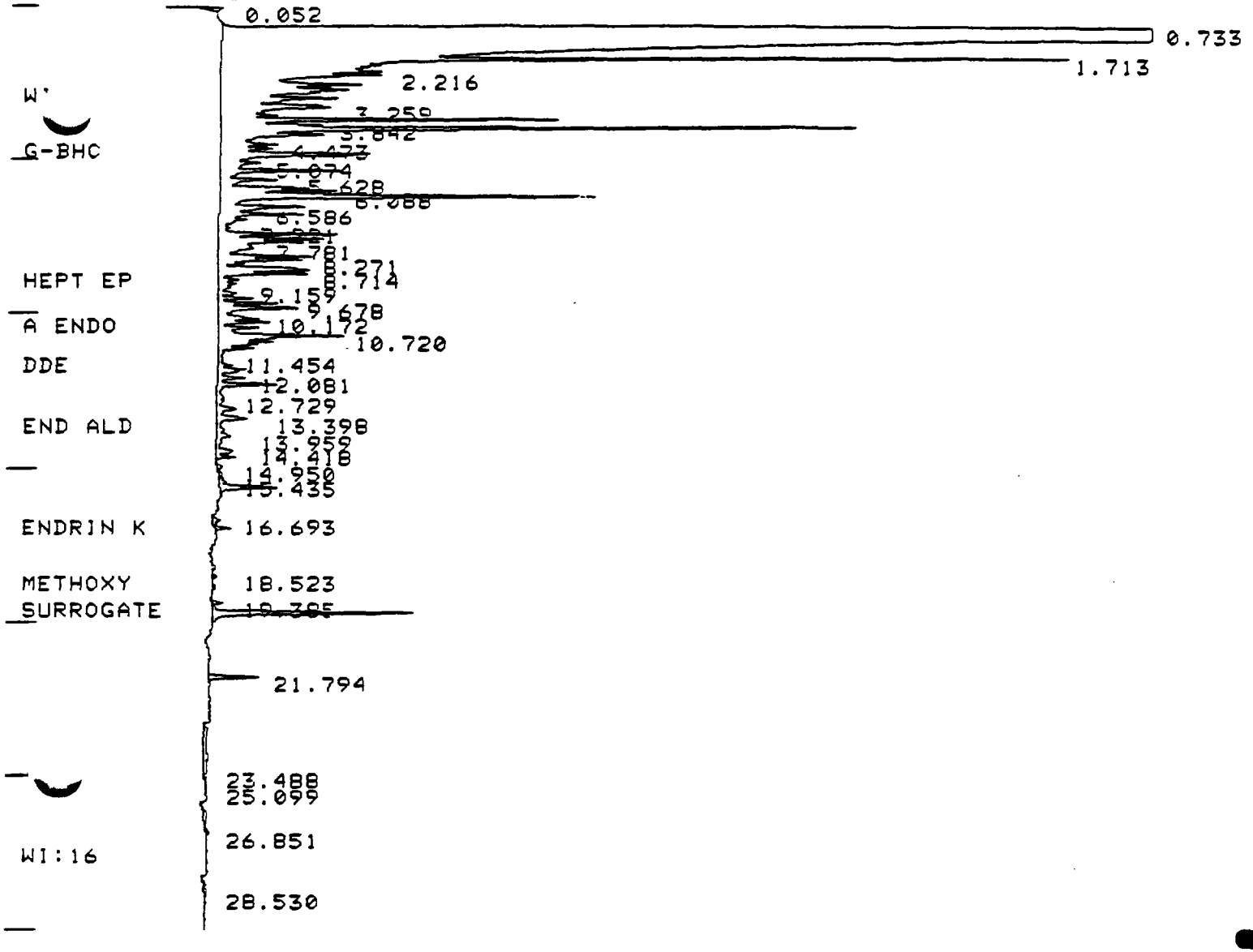
RACK: 2 VIAL: 15 INJ: 1

S[illegible]D FILE: P1213

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

(VA) varian /sunnyvale,calif.p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



TITLE: RUN# 27 08-89 11:38 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091777 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3505	0.01	BB	?	3.20
2		0.0000	0.733		2640490	0.09	BV		7.20
3		0.0000	1.713		150115	0.22	VV		3.70
4		0.0000	1.907		22111	0.25	VV	?	2.80
5		0.0000	1.981		17238	0.25	VV	?	2.95
		0.0000	2.049		14664	0.26	VV	?	2.70
		0.0000	2.112		25102	0.27	VV	?	3.50
8		0.0000	2.216		45435	0.28	VV	?	10.60
9		0.0000	2.534		37291	0.33	VV	?	6.50
10		0.0000	2.698		27080	0.35	VV	?	7.00
11		0.0000	2.798		18135	0.36	VV	?	2.20
12		0.0000	2.967		24785	0.38	VV	?	4.70
13		0.0000	3.070		7967	0.40	VV	?	
14		0.0000	3.259		35041	0.42	VV	?	6.80
[illegible]		[illegible]	[illegible]		5825	0.44	VV	?	3.10

Run #27
1509/777
08-89

1		0.0000	0.052		3505	0.01	BB	?	3.20
2		0.0000	0.733		2640490	0.09	BV		7.20
3		0.0000	1.713		150115	0.22	VV		3.70
4		0.0000	1.907		22111	0.25	VV	?	2.80
5		0.0000	1.981		17238	0.25	VV	?	2.95
6		0.0000	2.049		14664	0.26	VV	?	2.70
7		0.0000	2.112		25102	0.27	VV	?	3.50
8		0.0000	2.216		45435	0.28	VV	?	10.60
9		0.0000	2.534		37291	0.33	VV	?	6.50
10		0.0000	2.698		27080	0.35	VV	?	7.00
11		0.0000	2.798		18135	0.36	VV	?	2.20
12		0.0000	2.967		24785	0.38	VV	?	4.70
13		0.0000	3.070		7967	0.40	VV	?	
14		0.0000	3.259		35041	0.42	VV	?	6.80
15		0.0000	3.439		5825	0.44	VV	?	3.10
16		0.0000	3.530		9648	0.45	VV	?	5.20
17	A-BHC	0.0118	3.666	-0.034	51499	0.47	VV	?	2.50
18		0.0000	3.842		13313	0.49	VV	?	5.70
19		0.0000	3.951		103100	0.51	VV		4.20
20	B-BHC	0.0196	4.152	-0.198	26401	0.53	VV	?	6.65
21	G-BHC	0.0036	4.473	-0.037	14002	0.57	VV		8.70
22		0.0000	4.606		10405	0.59	VV	?	5.60
23		0.0000	4.775		39366	0.61	VV		6.75
24		0.0000	5.074		9240	0.65	VV	?	7.00
25	D-BHC	0.0008	5.201	0.001	2654	0.67	VV	?	0.90
26		0.0000	5.322		21433	0.68	VV	?	2.35
27		0.0000	5.628		13306	0.72	VV		4.85
28		0.0000	5.891		11874	0.76	VV	?	4.10
29		0.0000	5.970		15939	0.77	VV	?	5.00
30		0.0000	6.088		12342	0.78	VV	?	5.00
31		0.0000	6.181		70807	0.79	VV		5.10
32		0.0000	6.513		15455	0.84	VV		5.40
33	HEPT	0.0023	6.586	-0.074	5214	0.85	VV	?	
34		0.0000	6.766		15182	0.87	VV		4.40
35		0.0000	6.943		5076	0.89	VV	?	7.35
36		0.0000	7.008		3318	0.90	VV	?	13.10
37		0.0000	7.221		2122	0.93	VV	?	4.20
38		0.0000	7.411		18773	0.95	VV	?	2.55
39		0.0000	7.563		14807	0.97	VV		4.30
40		0.0000	7.661		12672	0.98	VV	?	5.40
41	ALDRIN	0.0012	7.781	-0.049	4265	1.00	VV	?	3.40
42		0.0000	7.881		8469	1.01	VV	?	5.80
43		0.0000	7.969		2603	1.02	VV	?	
44		0.0000	8.153		14382	1.05	VV	?	2.90
45		0.0000	8.271		13636	1.06	VV		5.25
46		0.0000	8.394		3547	1.08	VV	?	4.75
47		0.0000	8.539		9500	1.10	VV	?	5.00
48		0.0000	8.595		14281	1.11	VV	?	5.95
49		0.0000	8.714		12506	1.12	VV		3.90
50		0.0000	8.910		3678	1.14	VV		4.50
51		0.0000	9.039		3449	1.16	VV		6.05
52		0.0000	9.159		2877	1.18	VV	?	7.45
53	HEPT EP	0.0014	9.350	-0.040	3739	1.20	VV		5.50
54		0.0000	9.520		5522	1.22	VV		4.10
55		0.0000	9.678		9255	1.24	VV		4.40
56		0.0000	9.831		17602	1.26	VV		5.45
57		0.0000	10.172		9690	1.31	VV		8.00
58		0.0000	10.286		8483	1.32	VV		4.40
59		0.0000	10.470		6886	1.35	VV		4.65
60		0.0000	10.720		22707	1.38	VV		4.55
61	A ENDO	0.0025	10.801	0.031	6698	1.39	VV	?	0.20
62		0.0000	10.913		8106	1.40	VV	?	4.75
63		0.0000	11.006		5681	1.41	VV	?	4.80
64		0.0000	11.126		6181	1.43	VV		4.45
65		0.0000	11.454		2698	1.47	VV		4.00
66		0.0000	11.668		3358	1.50	VV		4.00
67		0.0000	11.803		3955	1.52	VV	?	4.10
68	DIELDRIN	0.0013	11.874	0.024	3360	1.53	VV	?	5.10
69	DDE	0.0022	12.081	-0.049	5904	1.55	VV		4.90
70		0.0000	12.295		10914	1.58	VV		4.30
71	ENDRIN	0.0011	12.729	0.029	2403	1.64	VV		6.95
72		0.0000	12.823		1725	1.65	VV	?	4.75
73	B ENDO	0.0026	13.074	-0.066	5877	1.68	VV		6.25
74		0.0000	13.398		8385	1.72	VV		7.70
75	DDD	0.0013	13.750	-0.150	2512	1.77	VV		4.95
76	END ALD	0.0021	13.959	-0.051	4151	1.79	VV		7.25
77		0.0000	14.146		3024	1.82	VV	?	6.05

Run # 27
15091777
08-89

[illegible]		[illegible]	[illegible]		[illegible]	0.95	VV	?	2.55
39		0.0000	7.563		14807	0.97	VV		4.30
40		0.0000	7.661		12672	0.98	VV	?	5.40
41	ALDRIN	0.0012	7.781	-0.049	4265	1.00	VV	?	3.40
42		0.0000	7.881		8469	1.01	VV	?	5.80
43		0.0000	7.969		2603	1.02	VV	?	
44		0.0000	8.153		14382	1.05	VV	?	2.90
45		0.0000	8.271		13636	1.06	VV		5.25
[illegible]		0.0000	8.394		3547	1.08	VV	?	4.75
[illegible]		0.0000	8.539		9500	1.10	VV	?	5.00
48		0.0000	8.595		14281	1.11	VV	?	5.95
49		0.0000	8.714		12506	1.12	VV		3.90
50		0.0000	8.910		3678	1.14	VV		4.50
51		0.0000	9.039		3449	1.16	VV		6.05
52		0.0000	9.159		2877	1.18	VV	?	7.45
53	HEPT EP	0.0014	9.350	-0.040	3739	1.20	VV		5.50
54		0.0000	9.520		5522	1.22	VV		4.10
55		0.0000	9.678		9255	1.24	VV		4.40
56		0.0000	9.831		17602	1.26	VV		5.45
57		0.0000	10.172		9690	1.31	VV		8.00
58		0.0000	10.286		8483	1.32	VV		4.40
59		0.0000	10.470		6886	1.35	VV		4.65
60		0.0000	10.720		22707	1.38	VV		4.55
61	A ENDO	0.0025	10.801	0.031	6698	1.39	VV	?	0.20
62		0.0000	10.913		8106	1.40	VV	?	4.75
63		0.0000	11.006		5681	1.41	VV	?	4.80
64		0.0000	11.126		6181	1.43	VV		4.45
65		0.0000	11.454		2698	1.47	VV		4.00
66		0.0000	11.668		3358	1.50	VV		4.00
67		0.0000	11.803		3955	1.52	VV	?	4.10
68	DIELDRIN	0.0013	11.874	0.024	3360	1.53	VV	?	5.10
69	DDE	0.0022	12.081	-0.049	5904	1.55	VV		4.90
70		0.0000	12.295		10914	1.58	VV		4.30
71	ENDRIN	0.0011	12.729	0.029	2403	1.64	VV		6.95
72		0.0000	12.823		1725	1.65	VV	?	4.75
73	B ENDO	0.0026	13.074	-0.066	5877	1.68	VV		6.25
74		0.0000	13.398		8385	1.72	VV		7.70
75	DDD	0.0013	13.750	-0.150	2512	1.77	VV		4.95
[illegible]	END ALD	0.0021	13.959	-0.051	4151	1.79	VV		7.25
[illegible]		0.0000	14.146		2024	1.82	VV	?	6.05
78		0.0000	14.418		5146	1.85	VV		8.95
79		0.0000	14.633		3223	1.88	VV		3.90
80	ENDO S04	0.0008	14.950	-0.090	1689	1.92	VV		8.10
81		0.0000	15.193		1559	1.95	VV	?	11.20
82	DDT	0.0008	15.435	-0.055	1361	1.98	VV	?	5.90
83		0.0000	15.618		11816	2.01	VB		6.25
84		0.0000	16.693		1256	2.14	BV		6.00
85	ENDRIN K	0.0010	16.946	0.056	2435	2.18	VB		4.80
86		0.0000	19.385		1530	2.49	BV		4.30
87	SURROGATE	0.0155	19.694	-0.056	35106	2.53	VB		4.95
88		0.0000	21.794		7714	2.80	BB		4.65
89		0.0000	23.488		12438	3.02	BV	?	87.65
90		0.0000	25.099		1875	3.23	VB	?	
91		0.0000	26.851		6407	3.45	BB	?	12.60
92		0.0000	28.530		2970	3.67	BB	?	
TOTALS:		0.0719		-0.808	3950270				

DETECTED PKS: 94 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 27.9 OFFSET: -206

RACK: 2 VIAL: 12 INJ: 1

SAVED FILE: P772

NO[illegible]:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-90 15091778

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/25/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 5

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	0.88
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

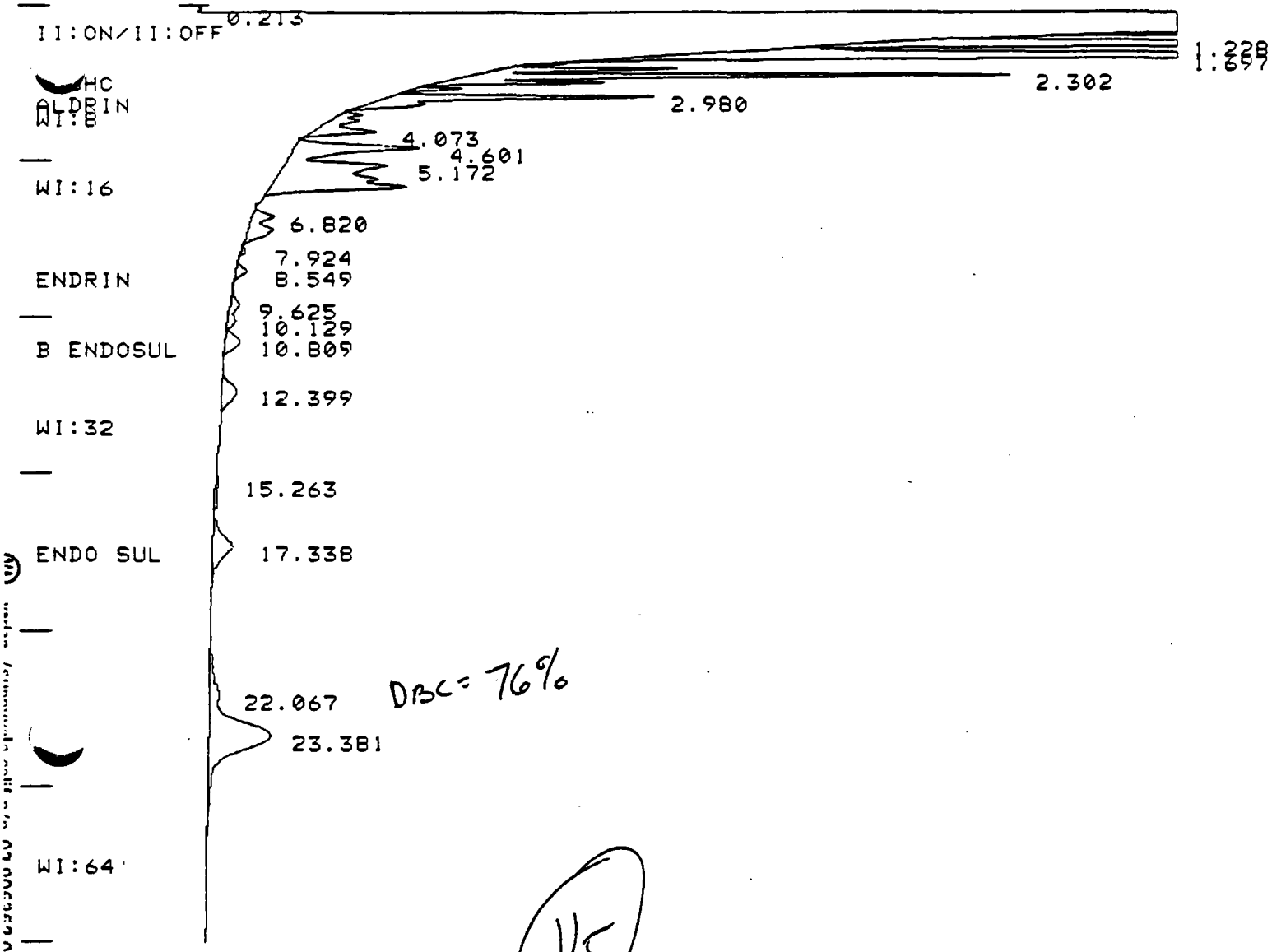
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



115

08-90

TITLE: RUN # 24 3:36 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091778 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		153519	VV	?	2.10
2		0.0000	0.356		143086	VB	?	5.10
3		0.0000	0.690		57045	BV	?	1.40
4		0.0000	0.827		16775	VV		1.95
5		0.0000	0.912		1269	T		1.20
6		0.0000	0.996		4636	VB		2.00
7		0.0000	1.228		9264	BV	?	4.50
8		0.0000	1.326		11770	VV	?	6.40
9		0.0000	1.499		1732	VV	?	2.60
10	A-B-C	0.0417	1.697	0.077	54680	VV		5.45
11		0.0000	1.910		200	T		1.40
12	G-B-C	0.002E	2.091	0.041	2652	VV		5.15
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

1/5

1242 = 1.99 Ht. x .088 KS ~~.085~~ µg/ml Ht. x 1 ml x 5 = ~~0.84~~ µg
0.88 µg KS

08-90

TITLE: RUN # 24 3:36 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091778 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		153519	VV	?	2.10
2		0.0000	0.356		143086	VB	?	5.10
3		0.0000	0.690		57045	BV	?	1.40
4		0.0000	0.827		16775	VV		1.95
5		0.0000	0.912		1269	T		1.20
6		0.0000	0.996		4636	VB		2.00
7		0.0000	1.228		9264	BV	?	4.50
8		0.0000	1.326		11770	VV	?	6.40
9		0.0000	1.499		1732	VV	?	2.60
10	A-BHC	0.0417	1.697	0.077	54680	VV		5.45
11		0.0000	1.910		200	T		1.40
12	G-BHC	0.0028	~~2.091~~	0.041	~~2652~~	VV		5.15
13	B-BHC	0.0243	2.302	-0.058	8207	VV		6.15
14		0.0000	2.512		2520	VV		4.30
15	D-BHC	0.0013	2.700	-0.040	746	VV		4.55
16	ALDRIN	0.0062	2.980	-0.030	4113	VV	?	7.25
17		0.0000	3.187		901	VV	?	9.15
18		0.0000	~~3.532~~	H = 1.99	~~346~~	VV		6.60
19		0.0000	3.724		449	VV		7.10
20		0.0000	4.073		969	VV		8.50
21		0.0000	4.601		1888	VV		13.45
22		0.0000	5.172		1567	VV	?	12.10
		0.0000	5.601		1553	VV	?	18.50
24	A ENDOSUL	0.0068	5.851	0.071	2061	VB	?	15.35
25		0.0000	6.820		324	BV		14.75
26	DIELDRIN	0.0015	7.236	0.126	380	VV		20.80
27	ENDRIN	0.0009	8.549	-0.081	150	VB		18.00
28		0.0000	9.625		133	BV		19.55
29		0.0000	10.129		102	VV		11.35
30	B ENDOSUL	0.0015	10.809	0.209	223	VB		23.05
31		0.0000	12.399		216	BB		32.30
32	ENDO SUL	0.0050	17.338	0.058	277	VB		41.55
33		0.0000	22.067		130	BV	?	56.90
34	DBC	0.0151	23.381	0.331	954	VB		55.60
TOTALS:		0.1071		0.704	484837			

DETECTED PKS: 37 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -132

RACK: 1 VIAL: 10 INJ: 1

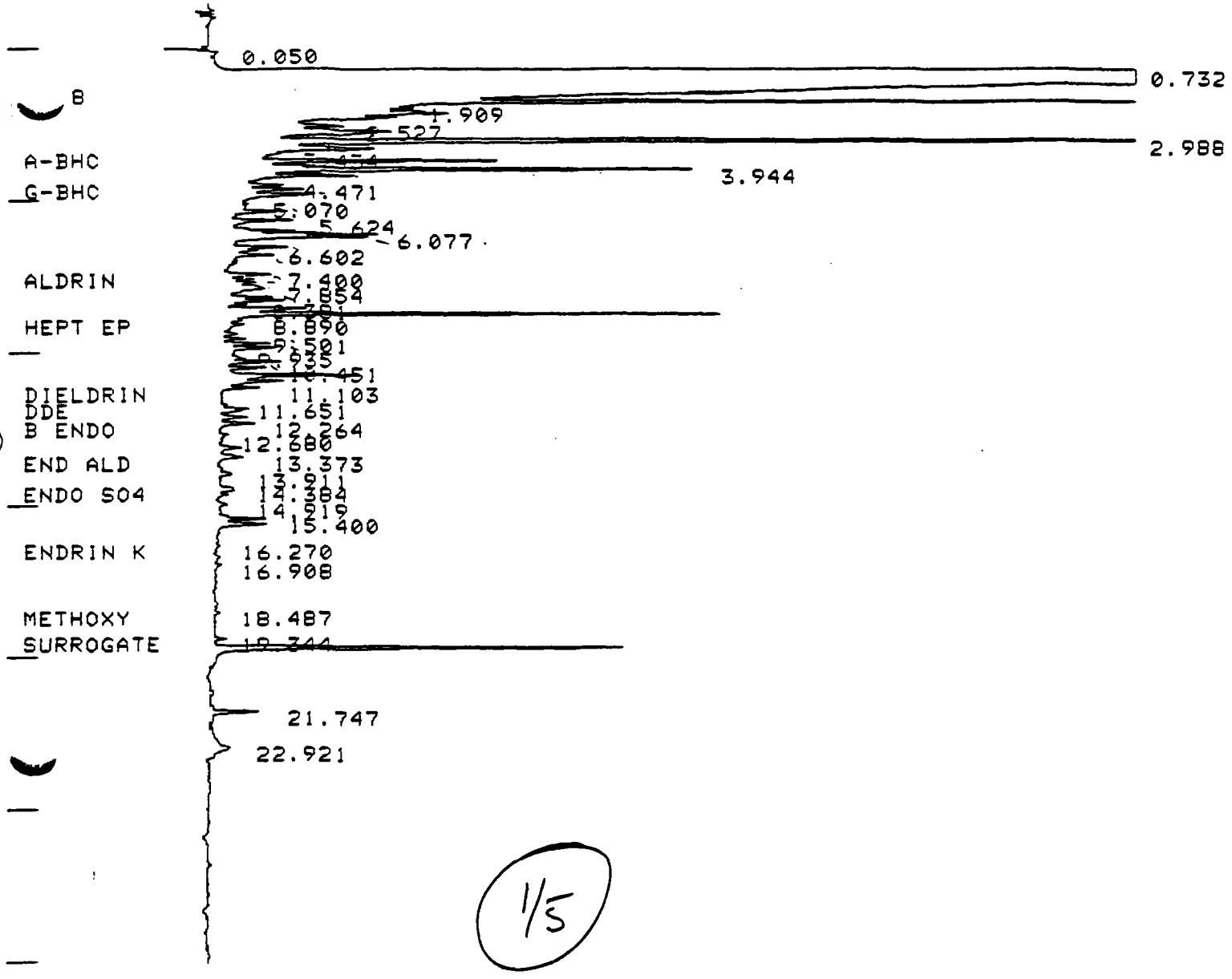
SAVED FILE: P1251

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
C #2

98

varian /sunnyvale calif p/n 03 90

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



varian / sunnyvale, calif p/n 01-906362-00

TITLE: RUN#6 08-90 17:36 12 NOV 85

CHANNEL NO: 1 SAMPLE: 1509177B METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.050		2982	0.01	BB	?	2.90
2		0.0000	0.732		2233660	0.09	BV		7.50
3		0.0000	1.024		532382	0.13	VV	?	20.76
4		0.0000	1.352		67594	0.17	VV	?	0.60
5		0.0000	1.442		148706	0.18	VV	?	2.85
6		0.0000	1.715		183213	0.22	VV		3.95
7		0.0000	1.909		25407	0.24	VV	?	2.70
8		0.0000	1.982		20272	0.25	VV	?	2.80
9		0.0000	2.052		21769	0.26	VV	?	3.90
10		0.0000	2.108		38883	0.27	VV	?	3.40
11		0.0000	2.224		56853	0.28	VV	?	5.25
12		0.0000	2.527		33533	0.32	VV	?	10.50

TITLE: RUN#6 08-90 17:36 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15091778 METHOD: 6B P

X	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.050		2982	0.01	BB	?	2.90
2		0.0000	0.732		2233660	0.09	BV		7.50
3		0.0000	1.024		532382	0.13	VV	?	20.76
4		0.0000	1.352		67594	0.17	VV	?	0.60
5		0.0000	1.442		148706	0.18	VV	?	2.85
6		0.0000	1.715		183213	0.22	VV		3.95
7		0.0000	1.909		25407	0.24	VV	?	2.70
8		0.0000	1.982		20272	0.25	VV	?	2.80
9		0.0000	2.052		21769	0.26	VV	?	3.90
10		0.0000	2.108		38883	0.27	VV	?	3.40
11		0.0000	2.224		56853	0.28	VV	?	5.25
12		0.0000	2.527		33522	0.32	VV	?	10.50
13		0.0000	2.701		65380	0.34	VV	?	13.20
14		0.0000	2.988		275054	0.38	VV		3.55
15		0.0000	3.262		49348	0.41	VV	?	11.95
16		0.0000	3.434		16218	0.44	VV	?	0.90
17	A-BHC	0.0110	3.663	-0.037	47739	0.47	VV	?	2.85
18		0.0000	3.834		11530	0.49	VV	?	5.70
19		0.0000	3.944		87398	0.50	VV		4.80
20	B-BHC	0.0258	4.149	-0.201	34758	0.53	VV		6.10
21	G-BHC	0.0041	4.471	-0.039	15932	0.57	VV	?	11.70
22		0.0000	4.610		16823	0.59	VV		6.75
23		0.0000	4.778		26684	0.61	VV		7.65
24		0.0000	5.070		6034	0.65	VV	?	3.60
25	D-BHC	0.0019	5.195	-0.005	6238	0.66	VV	?	4.75
26		0.0000	5.321		12599	0.68	VV		5.50
27		0.0000	5.429		3033	0.69	VV	?	
28		0.0000	5.624		16245	0.72	VV		4.85
29		0.0000	5.971		14467	0.76	VV	?	4.20
30		0.0000	6.077		19082	0.77	VV	?	3.90
31		0.0000	6.171		28929	0.79	VV	?	6.35
32		0.0000	6.333		2495	0.81	VV	?	
33		0.0000	6.503		10953	0.83	VV		5.20
34	HEPT	0.0025	6.602	-0.058	5769	0.84	VV	?	3.50
35		0.0000	6.760		10938	0.86	VV	?	2.90
36		0.0000	6.931		2831	0.88	VV	?	3.80
37		0.0000	7.021		3153	0.89	VV	?	2.60
38		0.0000	7.400		11747	0.94	VV		5.60
39		0.0000	7.554		5245	0.96	VV	?	5.70
40		0.0000	7.655		5841	0.98	VV	?	5.00
41	ALDRIN	0.0053	7.854	0.024	18206	1.00	VV	?	14.55
42		0.0000	8.141		8394	1.04	VV	?	4.70
43		0.0000	8.257		9819	1.05	VV		5.15
44		0.0000	8.381		3713	1.07	VV	?	5.55
45		0.0000	8.520		17203	1.09	VV		7.80
46		0.0000	8.693		67178	1.11	VV		3.70
47		0.0000	8.890		3851	1.13	VV	?	3.70
48		0.0000	9.025		6681	1.15	VV	?	7.15
49	HEPT EP	0.0012	9.335	-0.055	3216	1.19	VV		6.40
50		0.0000	9.501		3581	1.21	VV		4.65
51		0.0000	9.660		7098	1.23	VV		4.70
52		0.0000	9.803		10713	1.25	VV		5.80
53		0.0000	9.935		1833	1.26	VV	?	
54		0.0000	10.152		5909	1.29	VV	?	13.50
55		0.0000	10.263		9540	1.31	VV		4.60
56		0.0000	10.451		6885	1.33	VV		4.60
57	A ENDO	0.0099	10.700	-0.070	26454	1.36	VV		4.40
58		0.0000	10.891		11990	1.39	VV	?	5.60
59		0.0000	11.103		5775	1.41	VB		4.75
60		0.0000	11.775		4115	1.50	VV	?	4.30
61	DIELDRIN	0.0009	11.848	-0.002	2246	1.51	VV	?	4.20
62	DDE	0.0018	12.054	-0.076	4738	1.53	VV		4.60
63		0.0000	12.264		6056	1.56	VB		4.60
64	ENDRIN	0.0006	12.619	-0.021	1306	1.61	BV		5.15
65	B ENDO	0.0020	13.054	-0.088	4638	1.66	VV		5.20
66		0.0000	13.373		5753	1.70	VV		7.25
67	DDD	0.0016	13.911	0.011	2977	1.77	VB		7.55

varian / sunnyvale, calif p/n 03 906362 00

Run #6

08-90
1509 1778

27		0.0000	5.429		3033	0.69	VV	?	
28		0.0000	5.624		16245	0.72	VV		4.85
29		0.0000	5.971		14467	0.76	VV	?	4.20
30		0.0000	6.077		19082	0.77	VV	?	3.90
31		0.0000	6.171		28929	0.79	VV	?	6.35
32		0.0000	6.333		2495	0.81	VV	?	
33		0.0000	6.503		10953	0.83	VV		5.20
34	HEPT	0.0025	6.602	-0.058	5769	0.84	VV	?	3.50
35		0.0000	6.760		10938	0.86	VV	?	2.90
36		0.0000	6.931		2831	0.88	VV	?	3.80
37		0.0000	7.021		3153	0.89	VV	?	2.60
38		0.0000	7.400		11747	0.94	VV		5.60
39		0.0000	7.554		5245	0.96	VV	?	5.70
40		0.0000	7.655		5841	0.98	VV	?	5.00
41	ALDRIN	0.0053	7.854	0.024	18206	1.00	VV	?	14.55
42		0.0000	8.141		8394	1.04	VV	?	4.70
43		0.0000	8.257		9819	1.05	VV		5.15
44		0.0000	8.381		3713	1.07	VV	?	5.55
45		0.0000	8.520		17203	1.09	VV		7.80
46		0.0000	8.693		67178	1.11	VV		3.70
47		0.0000	8.890		3851	1.13	VV	?	3.70
48		0.0000	9.025		6681	1.15	VV	?	7.15
49	HEPT EP	0.0012	9.335	-0.055	3216	1.19	VV		6.40
50		0.0000	9.501		3581	1.21	VV		4.65
51		0.0000	9.660		7098	1.23	VV		4.70
52		0.0000	9.803		10713	1.25	VV		5.80
53		0.0000	9.935		1833	1.26	VV	?	
54		0.0000	10.152		5909	1.29	VV	?	13.50
55		0.0000	10.263		9540	1.31	VV		4.60
56		0.0000	10.451		6885	1.33	VV		4.60
57	A ENDO	0.0099	10.700	-0.070	26454	1.36	VV		4.40
58		0.0000	10.891		11990	1.39	VV	?	5.60
59		0.0000	11.103		5775	1.41	VB		4.75
60		0.0000	11.775		4115	1.50	VV	?	4.30
61	DIELDRIN	0.0009	11.848	-0.002	2246	1.51	VV	?	4.20
62	DDE	0.0018	12.054	-0.076	4738	1.53	VV		4.60
63		0.0000	12.264		6056	1.56	VB		4.60
64	ENDRIN	0.0006	12.619	-0.081	1306	1.61	BV		5.15
65	B ENDO	0.0020	13.054	-0.086	4638	1.66	VV		5.20
66		0.0000	13.373		5753	1.70	VV		7.25
67	DDD	0.0016	13.911	0.011	2977	1.77	VB		7.55
68	END ALD	0.0010	14.384	0.374	1943	1.83	BV	?	4.40
69		0.0000	14.464		2216	1.84	VV	?	4.40
70		0.0000	14.599		1815	1.86	VV		4.20
71	ENDO SO4	0.0012	14.919	-0.121	2405	1.90	VV		6.75
72		0.0000	15.302		2975	1.95	VV	?	5.50
73		0.0000	15.400		7560	1.96	VV		4.45
74	DDT	0.0065	15.578	0.088	11134	1.98	VB		6.05
75		0.0000	16.659		1281	2.12	BV		6.20
76	ENDRIN K	0.0005	16.908	0.018	1148	2.15	VB		5.20
77		0.0000	19.344		1715	2.46	BV		4.35
78	SURROGATE	0.0295	19.649	-0.101	66632	2.50	VB		4.50
79		0.0000	21.747		7617	2.77	BB		4.75
80		0.0000	22.921		5240	2.92	BB		9.85
TOTALS:		0.1073		-0.417	4551260				

DETECTED PKS: 86 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 9.7 OFFSET: -174

RACK: 1 VIAL: 1 INJ: 1

SAVED FILE: P784

ES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

varian /sunnyvale, calif p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-91 15091779

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/25/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 5

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	1.3
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

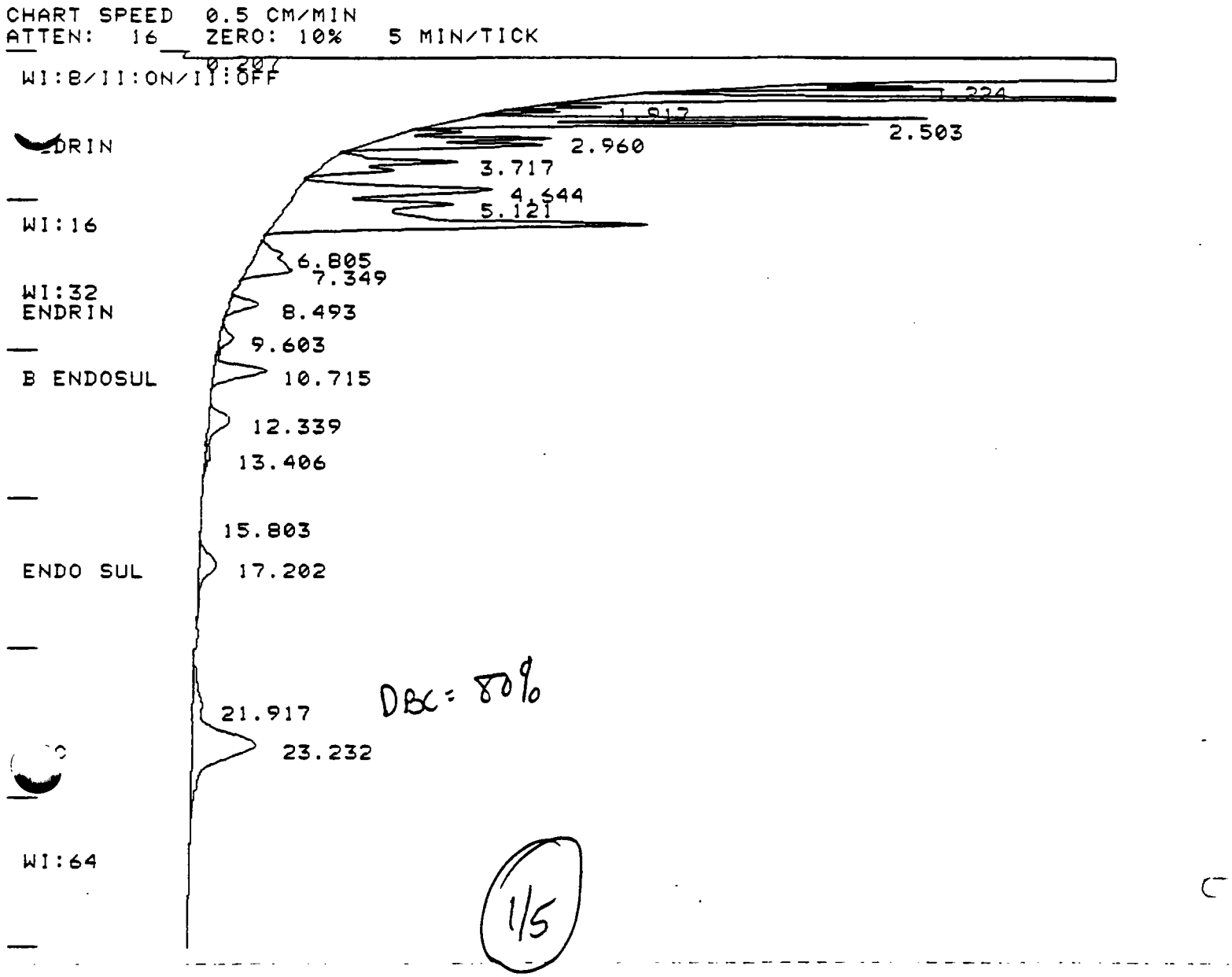
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4



TITLE: RUN # 25 08-91 4:10 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091779 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		156164	VV	?	2.10
2		0.0000	0.352		156090	VB	?	6.60
3		0.0000	0.694		31284	BV		3.90
4		0.0000	0.825		4362	VB		2.30
5		0.0000	1.224		2130	BV		3.25
6		0.0000	1.327		3630	VV		3.25
7	A-BHC	0.0117	1.642	0.022	15369	VV		6.00
8		0.0000	1.917		1191	VV		3.85
9	G-BHC	0.0011	2.070	0.020	1038	VV		4.05
10	B-BHC	0.0220	2.296	-0.064	7430	VV		6.70
11		0.0000	2.503		6968	VV		5.60
12	D-BHC	0.0016	2.723	-0.017	917	VV		6.40
13	[illegible]	0.0040	2.960	-0.050	2683	VV		6.95

varian /sunnyvale, calif. p/n 03-906362-00

1242: 2.85 Ht. x .08E µg/ml Ht. x 1ml x 5 = 1.3µg.

08-91

TITLE: RUN # 25 4:10 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091779 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.282		156164	VV	?	2.10
2		0.0000	0.352		156090	VB	?	6.60
3		0.0000	0.694		31284	BV		3.90
4		0.0000	0.825		4362	VB		2.30
5		0.0000	1.224		2130	BV		3.25
6		0.0000	1.327		3630	VV		3.25
7	A-BHC	0.0117	1.642	0.022	15369	VV		6.00
8		0.0000	1.917		1191	VV		3.85
9	G-BHC	0.0011	~~2.070~~	0.020	~~1038~~	VV		4.05
10	B-BHC	0.0220	2.296	-0.064	7430	VV		6.70
11		0.0000	2.503		6968	VV		5.60
12	D-BHC	0.0016	2.723	-0.017	917	VV		6.40
13	ALDRIN	0.0040	2.960	-0.050	2683	VV		6.95
14		0.0000	3.172		2883	VV		8.45
15		0.0000	3.717	H=2.85	2067	VV		9.85
16		0.0000	3.986		1228	VV	?	11.40
17		0.0000	4.644		3108	VV	?	19.90
18		0.0000	5.121		2639	VV	?	14.40
19	A ENDOSUL	0.0196	5.831	0.051	5965	VB		14.60
20		0.0000	6.805		427	BV	?	19.00
21	DIELDRIN	0.0029	7.349	0.239	715	VB	?	29.20
22	ENDRIN	0.0028	8.493	-0.137	487	BV		20.90
23		0.0000	9.603		225	VV		21.00
	B ENDOSUL	0.0054	10.715	0.115	832	VB		24.80
		0.0000	12.339		346	BV		36.30
26	ENDO SUL	0.0052	17.202	-0.078	286	VB		45.20
27		0.0000	21.917		145	BV	?	54.90
28	DBC	0.0159	23.232	0.182	1005	VB		55.20
TOTALS:		0.0922		0.283	411614			

DETECTED PKS: 31 REJECTED PKS: 3

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -111

RACK: 1 VIAL: 11 INJ: 1

SAVED FILE: P1252

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

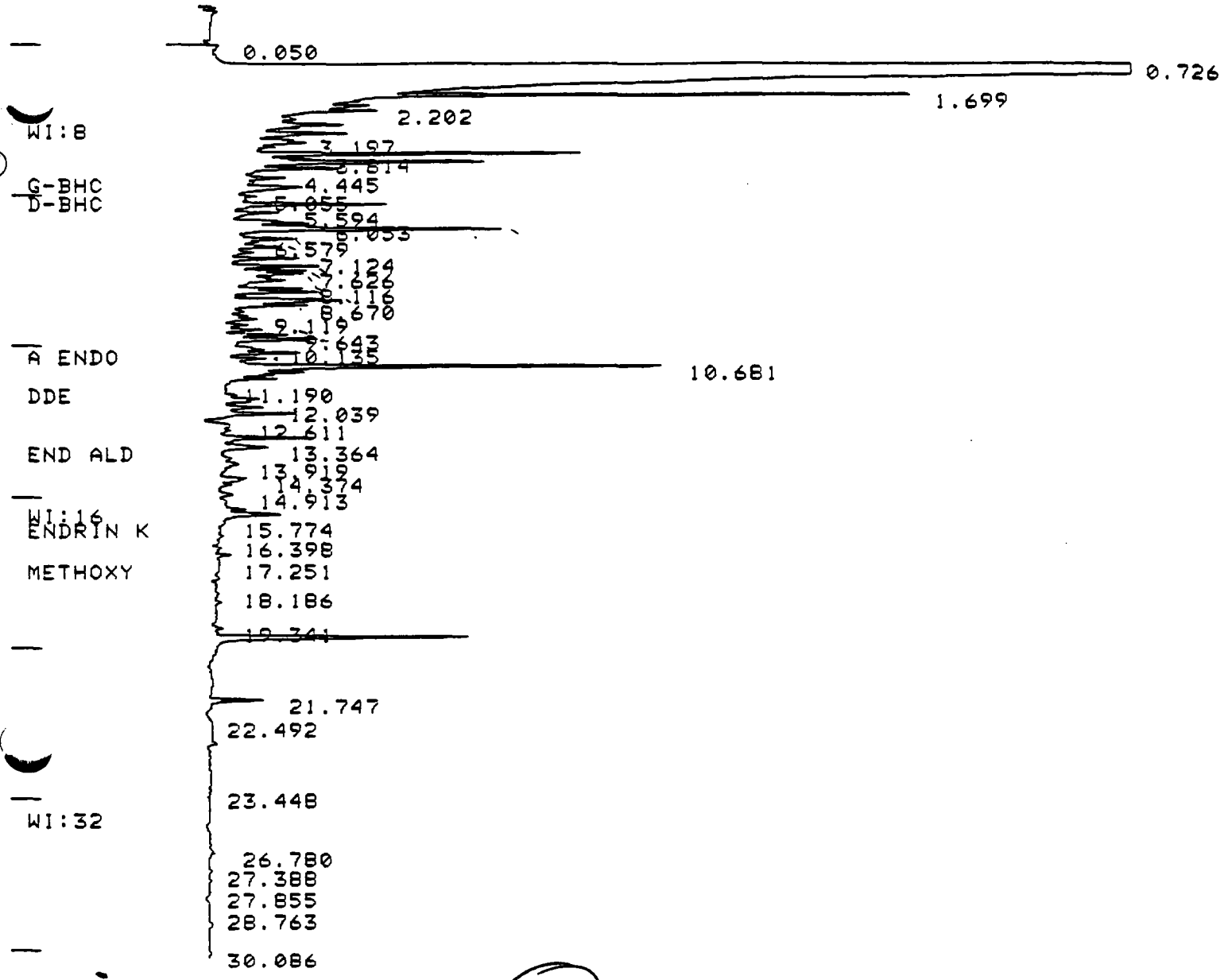
08-91

TITLE: RUN# 25 4:10 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091779 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



1/5

192

TITLE: RUN# 7 08-91 18:13 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15091779 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.050		2866	0.01	BB	?	2.90
2		0.0000	0.726		2200040	0.09	BV		6.80
3		0.0000	1.699		118248	0.22	VV		3.70
4		0.0000	1.890		30105	0.24	VV	?	2.00
5		0.0000	2.032		41433	0.26	VV	?	6.00
6		0.0000	2.202		47436	0.28	VV	?	13.40
7		0.0000	2.507		23958	0.32	VV	?	10.80
8		0.0000	2.683		30179	0.34	VV	?	11.20
9		0.0000	2.777		16533	0.35	VV	?	1.70
10		0.0000	2.969		36311	0.38	VV		8.80
11		0.0000	3.197		12122	0.41	VV	?	5.40

varian / sunnyvale, calif p/n 03-906362-00

TITLE: RUN# 7 08-91 18:13 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15091779 METHOD: 6B P

PEAK	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.050		2866	0.01	BB	?	2.90
2		0.0000	0.726		2200040	0.09	BV		6.80
3		0.0000	1.699		118248	0.22	VV		3.70
4		0.0000	1.890		30105	0.24	VV	?	2.00
5		0.0000	2.032		41433	0.26	VV	?	8.00
6		0.0000	2.202		47436	0.28	VV	?	13.40
7		0.0000	2.507		23958	0.32	VV	?	10.80
8		0.0000	2.683		30179	0.34	VV	?	11.20
9		0.0000	2.777		16533	0.35	VV	?	1.70
10		0.0000	2.969		36311	0.38	VV		8.80
11		0.0000	3.197		12122	0.41	VV	?	6.40
12		0.0000	3.278		20206	0.42	VV	?	5.00
13		0.0000	3.420		9957	0.44	VV	?	3.40
14		0.0000	3.503		5568	0.45	VV	?	0.80
15	A-BHC	0.0136	3.643	-0.057	58974	0.46	VV	?	2.65
16		0.0000	3.814		13324	0.49	VV	?	5.30
17		0.0000	3.919		54989	0.50	VV		5.10
18	B-BHC	0.0245	4.126	-0.224	32958	0.53	VV		5.60
19	G-BHC	0.0046	4.445	-0.065	17737	0.57	VV		7.70
20		0.0000	4.587		5402	0.58	VV	?	3.70
21		0.0000	4.616		3319	0.59	VV	?	
22		0.0000	4.751		31257	0.61	VV		10.85
23		0.0000	5.055		10102	0.64	VV	?	7.00
24	D-BHC	0.0016	5.188	-0.012	5323	0.66	VV	?	3.00
25		0.0000	5.316		34595	0.68	VV	?	2.55
26		0.0000	5.594		13748	0.71	VV		5.45
27		0.0000	5.690		4747	0.73	VV	?	
28		0.0000	5.866		9150	0.75	VV	?	5.00
29		0.0000	5.946		14902	0.76	VV	?	5.75
		0.0000	6.053		11469	0.77	VV	?	5.10
		0.0000	6.153		56582	0.78	VV		5.20
32		0.0000	6.344		3571	0.81	VV	?	1.70
33		0.0000	6.472		16660	0.83	VV	?	4.00
34		0.0000	6.579		6455	0.84	VV	?	2.70
35	HEPT	0.0070	6.731	0.071	16096	0.86	VV	?	3.75
36		0.0000	6.915		13619	0.88	VV	?	8.05
37		0.0000	7.124		17116	0.91	VV		4.45
38		0.0000	7.381		20962	0.94	VV		4.70
39		0.0000	7.528		14531	0.96	VV	?	4.00
40		0.0000	7.626		15696	0.97	VV	?	6.10
41		0.0000	7.744		8111	0.99	VV	?	4.10
42	ALDRIN	0.0069	7.835	0.005	23803	1.00	VV	?	9.10
43		0.0000	8.116		15571	1.04	VV		4.90
44		0.0000	8.236		18530	1.05	VV		4.90
45		0.0000	8.366		5462	1.07	VV	?	3.60
46		0.0000	8.495		33560	1.08	VV	?	7.00
47		0.0000	8.670		16668	1.11	VV	?	4.70
48		0.0000	8.861		9202	1.13	VV	?	7.80
49		0.0000	9.010		7038	1.15	VV	?	7.20
50		0.0000	9.119		11455	1.16	VV	?	6.25
51	HEPT EP	0.0035	9.315	-0.075	8957	1.19	VV		5.80
52		0.0000	9.477		10177	1.21	VV		4.80
53		0.0000	9.643		13728	1.23	VV		4.70
54		0.0000	9.785		24486	1.25	VV		5.60
55		0.0000	10.135		19320	1.29	VV	?	13.60
56		0.0000	10.245		17469	1.31	VV		4.70
57		0.0000	10.432		11745	1.33	VV		5.90
58	A ENDO	0.0320	10.681	-0.089	85150	1.36	VV		4.10
59		0.0000	10.872		16302	1.39	VV	?	5.10
		0.0000	10.962		9796	1.40	VV	?	2.25
		0.0000	11.087		13376	1.41	VV		4.75
62		0.0000	11.190		10553	1.43	VV	?	
63		0.0000	11.623		9857	1.48	VV	?	4.80
64		0.0000	11.755		9774	1.50	VV	?	4.50
65	DIELDRIN	0.0026	11.836	-0.014	6855	1.51	VV	?	4.10
66	DDE	0.0052	12.039	-0.09[illegible]	13994	1.54	VV		5.25
67		0.0000	12.246		21792	1.56	VV		4.60
68		0.0000	12.61[illegible]		5495	1.61	VV	?	9.50

Run #7

A ENDO 08-91

1509 1779

53		0.0000	9.643		13728	1.23	VV		4.70
54		0.0000	9.785		24486	1.25	VV		5.60
55		0.0000	10.135		19320	1.29	VV	?	13.60
56		0.0000	10.245		17469	1.31	VV		4.70
57		0.0000	10.432		11745	1.33	VV		5.90
58	A ENDO	0.0320	10.681	-0.089	85150	1.36	VV		4.10
59		0.0000	10.872		16302	1.39	VV	?	5.10
60		0.0000	10.962		9796	1.40	VV	?	2.25
61		0.0000	11.087		13376	1.41	VV		4.75
62		0.0000	11.190		10553	1.43	VV	?	
63		0.0000	11.623		9857	1.48	VV	?	4.80
64		0.0000	11.755		9774	1.50	VV	?	4.50
65	DIELDRIN	0.0026	11.836	-0.014	6855	1.51	VV	?	4.10
66	DDE	0.0052	12.039	-0.091	13994	1.54	VV		5.25
67		0.0000	12.246		21792	1.56	VV		4.60
68		0.0000	12.611		5495	1.61	VV	?	9.80
69	ENDRIN	0.0018	12.649	-0.051	3725	1.61	VV	?	
70		0.0000	12.788		6425	1.63	VV	?	3.80
71	B ENDO	0.0106	13.044	-0.096	24314	1.66	VV	?	2.95
72		0.0000	13.364		20872	1.71	VV		9.75
73		0.0000	13.713		9912	1.75	VV	?	7.60
74	DDD	0.0049	13.919	0.019	9336	1.78	VV	?	11.60
75	END ALD	0.0016	13.989	-0.021	3095	1.78	VV	?	
76		0.0000	14.113		5786	1.80	VV	?	1.20
77		0.0000	14.374		7832	1.84	VV	?	6.90
78		0.0000	14.443		5262	1.84	VV	?	0.90
79		0.0000	14.588		6974	1.86	VV	?	5.40
80		0.0000	14.913		7876	1.90	VV	?	13.20
81	ENDO SO4	0.0031	15.165	0.125	6328	1.94	VV	?	13.90
82		0.0000	15.392		9760	1.96	VV	?	15.50
83	DDT	0.0130	15.564	0.074	22351	1.99	VV	?	5.80
84		0.0000	15.774		4950	2.01	VV	?	
85		0.0000	16.265		7424	2.08	VV		5.25
86		0.0000	16.398		2217	2.09	VV	?	
87		0.0000	16.668		2758	2.13	VV		10.20
88	ENDRIN K	0.0016	16.903	0.013	3986	2.16	VV		7.75
89		0.0000	17.251		4033	2.20	VV		3.20
90		0.0000	17.348		1983	2.21	VV	?	
91		0.0000	17.671		1805	2.26	VV		6.60
92	METHOXY	0.0044	18.186	-0.094	3016	2.32	VV		7.70
93		0.0000	18.478		1674	2.36	VB		7.10
94		0.0000	19.341		1795	2.47	BV		4.65
95	SURROGATE	0.0240	19.650	-0.100	54239	2.51	VB		5.05
96		0.0000	21.747		10343	2.78	BV		4.90
97		0.0000	22.492		1151	2.87	VB	?	16.40
98		0.0000	23.448		7683	2.99	BB	?	88.30
99		0.0000	26.780		10364	3.42	BV	?	57.30
100		0.0000	27.388		4726	3.50	VV	?	5.70
101		0.0000	27.702		2982	3.54	VV	?	4.80
102		0.0000	27.855		3045	3.56	VV	?	21.35
103		0.0000	28.763		3730	3.67	VV	?	48.90
104		0.0000	29.140		3621	3.72	VV	?	14.10
105		0.0000	30.086		1208	3.84	VB	?	9.30
TOTALS:		0.1665		-0.682	3845050				

DETECTED PKS: 106 REJECTED PKS: 1

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 9.7 OFFSET: -171

RACK: 1 VIAL: 2 INJ: 1

SAVED FILE: P785

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

varian /sunnyvale,calif p/n 03 906362 00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-92 15091780

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/25/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 10

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 1.0
11104-28-2	Aroclor-1221	< 1.0
11141-16-5	Aroclor-1232	< 1.0
53469-21-9	Aroclor-1242	1.3
12672-29-6	Aroclor-1248	< 1.0
11097-69-1	Aroclor-1254	< 2.0
11096-82-5	Aroclor-1260	< 2.0

V_i = Volume of extract injected (ul)

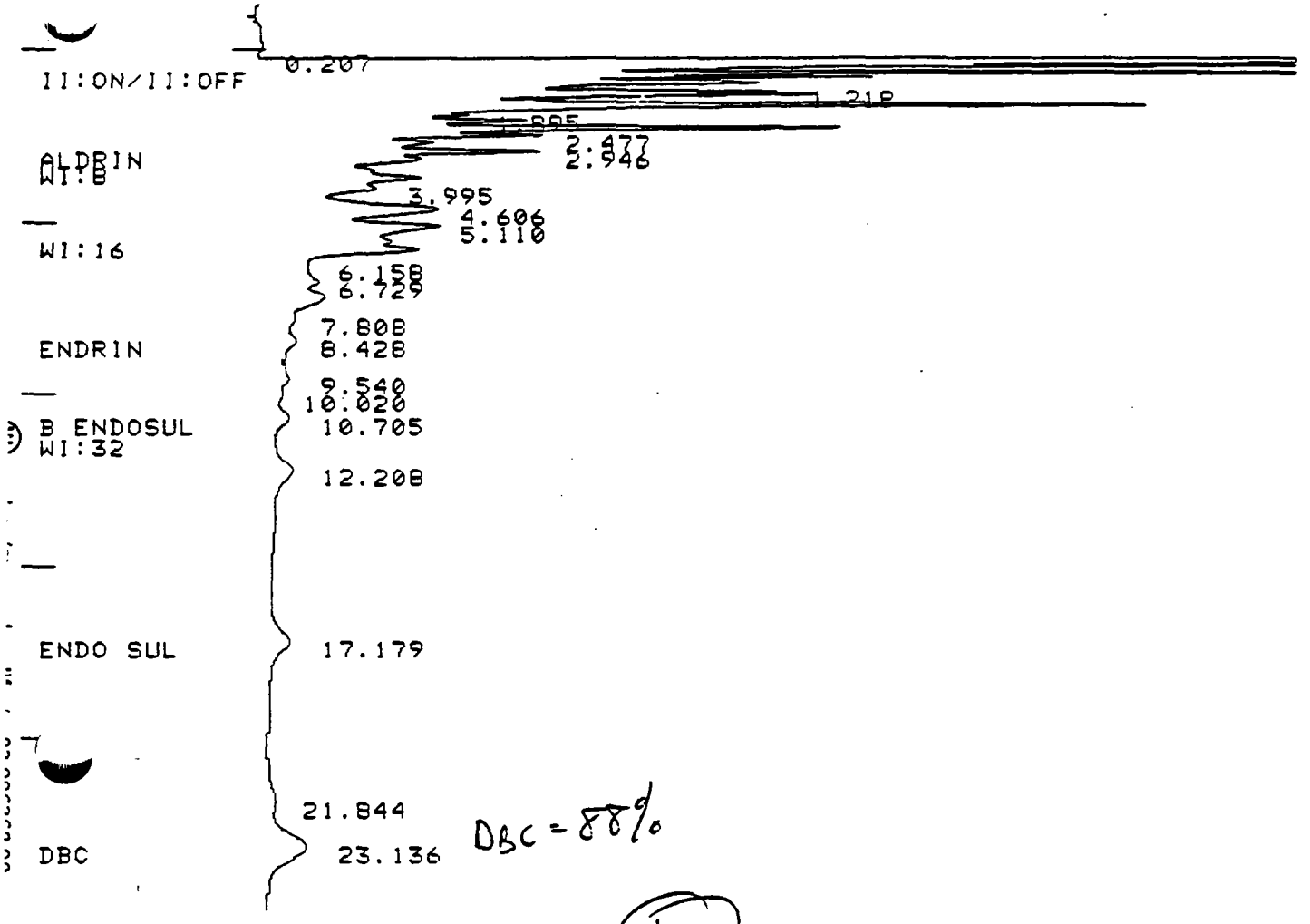
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN # 40 08-92 9:47 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091780 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		132938	VB		5.05
2		0.0000	0.477		8868	BB		1.90
3		0.0000	0.676		33096	BV		2.35
4		0.0000	0.815		3876	VV		2.30
5		0.0000	0.915		2145	VV	?	3.00
6		0.0000	0.975		2619	VV	?	5.55
[illegible]		0.0000	1.218		3372	VV	?	3.50
[illegible]		0.0000	1.304		4111	VV	?	5.75
9		0.0000	1.486		998	VV	?	3.00
10	A-BHC	0.0071	1.617	-0.003	9269	VV		5.75
11		0.0000	1.855		367	T		2.60
12	G-BHC	0.0015	2.058	0.008	1390	VV		4.95
13	B-BHC	0.0174	2.271	-0.089	5893	VV		6.25
14		0.0000	2.477		1958	VV		4.95
15	D-BHC	0.0010	2.6[illegible]	-0.0[illegible]	584	VV		7.75

DBC 23.136

1/10

1242 = 1.52 Ht. x .085 µg/mlHt. x 1ml x 10 = 1.3 µg

TITLE: RUN # 40 08-92 9:47 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091780 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.302		132938	VB		5.05
2		0.0000	0.477		8868	BB		1.90
3		0.0000	0.676		33096	BV		2.35
4		0.0000	0.815		3876	VV		2.30
5		0.0000	0.915		2145	VV	?	3.00
6		0.0000	0.975		2619	VV	?	5.55
7		0.0000	1.218		3372	VV	?	3.50
8		0.0000	1.304		4111	VV	?	5.75
9		0.0000	1.486		998	VV	?	3.00
10	A-BHC	0.0071	1.617	-0.003	9269	VV		5.75
11		0.0000	1.895		567	T		2.80
12	G-BHC	0.0015	~~2.058~~	0.008	~~1390~~	VV		4.95
13	B-BHC	0.0174	2.271	-0.089	5893	VV		6.25
14		0.0000	2.477		1958	VV		4.95
15	D-BHC	0.0010	2.679	-0.061	594	VV		7.75
16	ALDRIN	0.0034	2.946	-0.064	2244	VV		6.95
17		0.0000	3.156		756	VV		9.10
18		0.0000	~~3.492~~	H=1.52	~~318~~	VV	?	8.20
19		0.0000	3.701		1058	VV		10.10
20		0.0000	3.995		576	VV	?	10.80
21		0.0000	4.606		1583	VV	?	20.75
22		0.0000	5.110		1685	VV		21.40
23		0.0000	5.545		1067	VV	?	13.80
24	A ENDOSUL	0.0048	5.791	0.011	1476	VV	?	16.25
25		0.0000	6.729		224	VV		15.10
26	DIELDRIN	0.0015	7.149	0.039	372	VV		20.15
27	ENDRIN	0.0008	8.428	-0.202	146	VB		19.15
28	B ENDOSUL	0.0010	10.705	0.105	157	VB		24.50
29		0.0000	12.208		243	BB		37.90
30	ENDO SUL	0.0048	17.179	-0.101	268	BB		43.20
31		0.0000	21.844		123	BV	?	53.00
32	DBC	0.0088	23.136	0.086	555	VV		53.50
TOTALS:		0.0521		+0.271	224345			

DETECTED PKS: 37 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 55

RACK: 3 VIAL: 2 INJ: 1

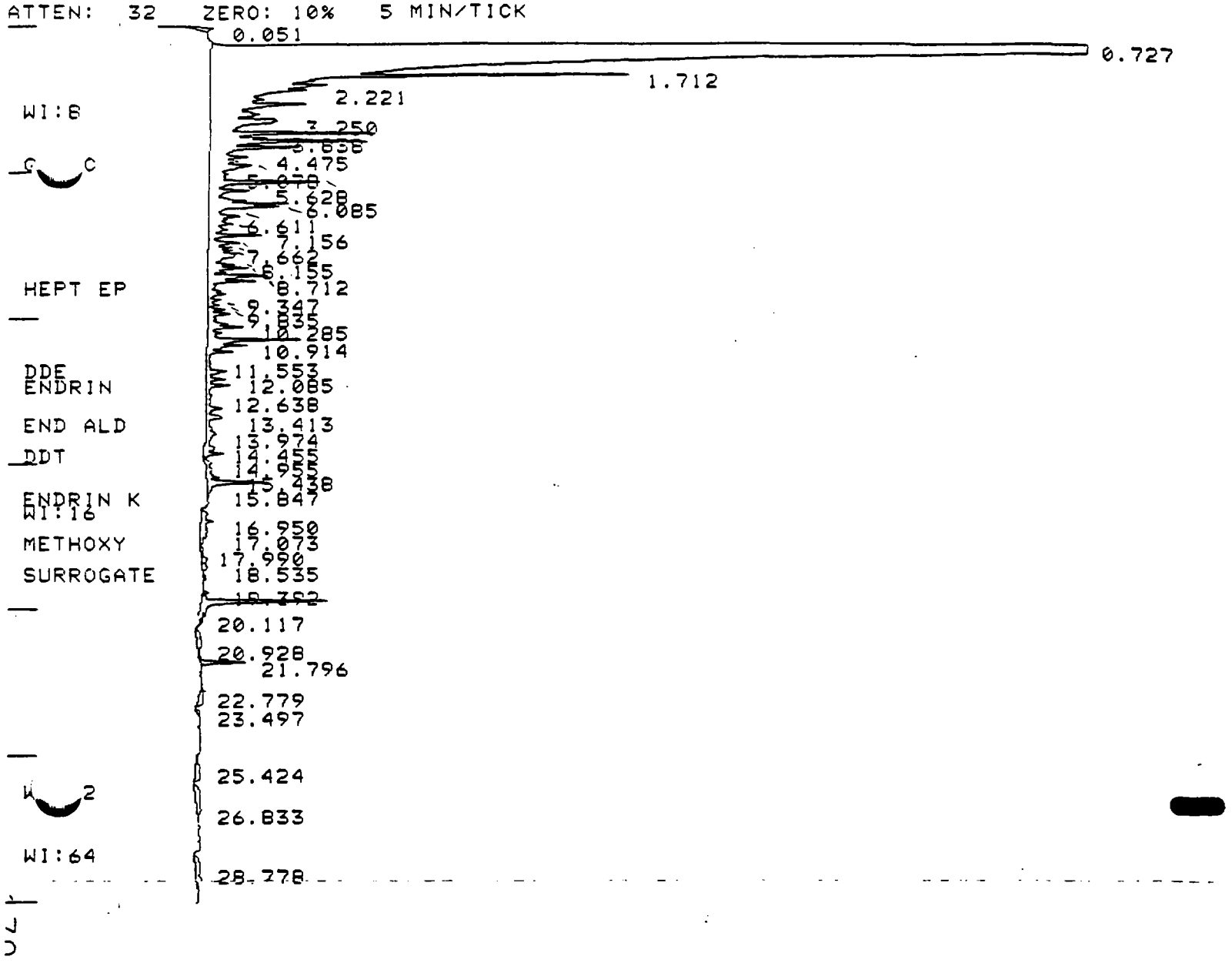
SAVED FILE: P1215

NOTES:
4 UL INJECTION
.5%SP2250/1.95%SP2401
#2

145

varian /sunnyvale,calif.p/n 03

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



TITLE: RUN# 28 08-92 12:15 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091780 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.051		3586	0.01	BB	?	3.00
2		0.0000	0.727		2037840	0.09	BV		6.75
3		0.0000	1.712		83804	0.22	VV		4.15
4		0.0000	1.902		22726	0.24	VV	?	1.80
5		0.0000	2.047		33012	0.26	VV	?	8.70
6		0.0000	2.221		32583	0.28	VV	?	18.45
7		0.0000	2.527		18233	0.32	VV	?	11.20
		0.0000	2.703		31925	0.34	VV	?	7.85
		0.0000	2.966		6540	0.38	VV	?	5.50
10		0.0000	3.032		13333	0.39	VV	?	3.90
11		0.0000	3.250		16781	0.41	VV	?	9.70
12		0.0000	3.314		11882	0.42	VV	?	1.40
13		0.0000	3.422		8369	0.44	VV	?	
14	A-BHC	0.0067	3.666	-0.034	29321	0.47	VV		4.40
15		0.0000	3.838		8466	0.49	VV	?	5.40
16		0.0000	3.946		31712	0.50	VV		5.00

Run #28
15091780
08-92

1		0.0000	0.051		3586	0.01	BB	? 3.00
2		0.0000	0.727		2037840	0.09	BV	6.75
3		0.0000	1.712		83804	0.22	VV	4.15
4		0.0000	1.902		22726	0.24	VV	? 1.80
5		0.0000	2.047		33012	0.26	VV	? 8.70
6		0.0000	2.221		32583	0.28	VV	? 18.45
7		0.0000	2.527		18233	0.32	VV	? 11.20
[illegible]		0.0000	2.703		31925	0.34	VV	? 7.85
[illegible]		0.0000	2.966		6540	0.38	VV	? 5.50
[illegible]		0.0000	3.032		13333	0.39	VV	? 3.90
11		0.0000	3.250		16781	0.41	VV	? 9.70
12		0.0000	3.314		11882	0.42	VV	? 1.40
13		0.0000	3.422		8369	0.44	VV	?
14	A-BHC	0.0067	3.666	-0.034	29321	0.47	VV	4.40
15		0.0000	3.838		8466	0.49	VV	? 5.40
16		0.0000	3.946		31712	0.50	VV	5.00
17	B-BHC	0.0162	4.152	-0.198	21805	0.53	VV	5.15
18	G-BHC	0.0025	4.475	-0.035	9639	0.57	VV	7.95
19		0.0000	4.627		6840	0.59	VV	? 7.30
20		0.0000	4.772		10967	0.61	VV	? 5.40
21		0.0000	4.872		4780	0.62	VV	? 6.20
22		0.0000	5.078		4164	0.65	VV	? 7.80
23	D-BHC	0.0011	5.199	-0.001	3788	0.66	VV	? 2.30
24		0.0000	5.342		22835	0.68	VV	? 3.10
25		0.0000	5.628		10597	0.72	VV	4.80
26		0.0000	5.906		2950	0.75	VV	? 5.80
27		0.0000	5.977		5851	0.76	VV	? 5.30
28		0.0000	6.085		11005	0.78	VV	? 4.00
29		0.0000	6.181		15800	0.79	VV	? 6.35
30		0.0000	6.502		8119	0.83	VV	6.10
31	HEPT	0.0014	6.611	-0.049	3262	0.84	VV	? 3.80
32		0.0000	6.765		5805	0.86	VV	? 7.20
33		0.0000	6.955		5202	0.89	VV	? 12.20
34		0.0000	7.017		1209	0.90	VV	?
35		0.0000	7.156		9890	0.91	VV	4.10
36		0.0000	7.411		7557	0.95	VV	5.55
37		0.0000	7.566		3758	0.97	VV	? 4.60
[illegible]		0.0000	7.662		3871	0.98	VV	? 4.30
[illegible]		0.0000	7.782		5236	0.99	VV	? 5.90
[illegible]	ALDRIN	0.0025	7.825	-0.005	8719	1.00	VV	? 15.00
41		0.0000	8.155		4779	1.04	VV	4.80
42		0.0000	8.275		6853	1.06	VV	4.30
43		0.0000	8.398		2916	1.07	VV	? 4.00
44		0.0000	8.530		12765	1.09	VV	4.60
45		0.0000	8.712		7848	1.11	VV	3.95
46		0.0000	8.844		1283	1.13	VV	? 2.10
47		0.0000	8.885		1206	1.13	VV	? 4.00
48		0.0000	9.040		2174	1.15	VV	? 4.10
49		0.0000	9.152		4205	1.17	VV	? 5.85
50	HEPT EP	0.0010	9.347	-0.043	2605	1.20	VV	4.30
51		0.0000	9.519		1998	1.22	VV	3.50
52		0.0000	9.678		3593	1.24	VV	4.80
53		0.0000	9.835		5134	1.26	VV	5.30
54		0.0000	10.000		2265	1.28	VV	? 4.10
55		0.0000	10.174		4531	1.30	VV	? 2.90
56		0.0000	10.285		6688	1.31	VV	4.30
57		0.0000	10.473		3465	1.34	VV	5.35
58	A ENDO	0.0071	10.721	-0.049	18851	1.37	VV	3.95
59		0.0000	10.914		8265	1.39	VV	4.45
60		0.0000	11.128		4652	1.42	VV	4.10
61		0.0000	11.553		2577	1.48	VV	? 3.55
62	DIELDRIN	0.0020	11.903	-0.047	5298	1.51	VV	6.70
63	DDE	0.0016	12.085	-0.045	4411	1.54	VV	4.75
64		0.0000	12.293		5300	1.57	VV	4.15
65	ENDRIN	0.0012	12.638	-0.062	2603	1.62	VV	? 8.35
66		0.0000	12.824		1648	1.64	VV	? 3.00
67	B ENDO	0.0021	13.091	-0.049	4847	1.67	VV	? 2.95
[illegible]		0.0000	13.413		5958	1.71	VV	8.25
[illegible]	DDD	0.0014	13.763	-0.137	2584	1.76	VV	? 6.00
[illegible]	END ALD	0.0024	13.974	-0.036	4617	1.79	VV	? 11.15
71		0.0000	14.417		3778	1.84	VV	? 4.40
72		0.0000	14.455		1647	1.85	VV	? 9.90
73		0.0000	14.635		3491	1.87	VV	4.05
74	ENDO SO4	0.0009	14.955	-0.085	1903	1.91	VV	? 10.40
75		0.0000	15.178		2423	1.94	VV	? 8.60
76		0.0000	15.332		1271	1.96	VV	? 3.90
77	DDT	0.0014	15.435	-0.052	2383	1.97	VV	? 5.40

Run #28
15091780
08-92

43		0.0000	8.398		2916	1.07	VV	?	4.00
44		0.0000	8.530		12765	1.09	VV		4.60
45		0.0000	8.712		7848	1.11	VV		3.95
46		0.0000	8.844		1283	1.13	VV	?	2.10
47		0.0000	8.885		1206	1.13	VV	?	4.00
48		0.0000	9.040		2174	1.15	VV	?	4.10
49		0.0000	9.152		4205	1.17	VV	?	5.85
50	HEPT EP	0.0010	9.347	-0.043	2605	1.20	VV		4.30
		0.0000	9.519		1998	1.22	VV		3.50
		0.0000	9.678		3593	1.24	VV		4.80
53		0.0000	9.835		5134	1.26	VV		5.30
54		0.0000	10.000		2265	1.28	VV	?	4.10
55		0.0000	10.174		4531	1.30	VV	?	2.90
56		0.0000	10.285		6688	1.31	VV		4.30
57		0.0000	10.473		3465	1.34	VV		5.35
58	A ENDO	0.0071	10.721	-0.049	18851	1.37	VV		3.95
59		0.0000	10.914		8265	1.39	VV		4.45
60		0.0000	11.128		4652	1.42	VV		4.10
61		0.0000	11.553		2577	1.48	VV	?	3.55
62	DIELDRIN	0.0020	11.803	-0.047	5298	1.51	VV		6.70
63	DDE	0.0016	12.085	-0.045	4411	1.54	VV		4.75
64		0.0000	12.293		5300	1.57	VV		4.15
65	ENDRIN	0.0012	12.638	-0.062	2603	1.62	VV	?	8.35
66		0.0000	12.824		1648	1.64	VV	?	3.00
67	B ENDO	0.0021	13.091	-0.049	4847	1.67	VV	?	2.95
68		0.0000	13.413		5958	1.71	VV		8.25
69	DDD	0.0014	13.763	-0.137	2584	1.76	VV	?	6.00
70	END ALD	0.0024	13.974	-0.036	4617	1.79	VV	?	11.15
71		0.0000	14.417		3778	1.84	VV	?	4.40
72		0.0000	14.455		1647	1.85	VV	?	9.90
73		0.0000	14.635		3491	1.87	VV		4.05
74	ENDO SO4	0.0009	14.955	-0.085	1903	1.91	VV	?	10.40
75		0.0000	15.178		2423	1.94	VV	?	8.60
76		0.0000	15.332		1271	1.96	VV	?	3.90
77	DDT	0.0014	15.438	-0.052	2383	1.97	VV	?	5.40
78		0.0000	15.621		13446	2.00	VV	?	3.15
79		0.0000	16.699		2657	2.13	BV	?	10.60
80	ENDRIN K	0.0011	16.950	0.060	2870	2.17	VV		6.00
		0.0000	17.073		5025	2.18	VV	?	59.30
		0.0000	17.990		1282	2.30	VV	?	16.50
83	METHOXY	0.0031	18.233	-0.047	2102	2.33	VV	?	7.20
84		0.0000	18.535		1295	2.37	VB		7.00
85		0.0000	19.392		1057	2.48	BV		4.50
86	SURROGATE	0.0135	19.702	-0.048	30636	2.52	VV		4.95
87		0.0000	20.339		1228	2.60	T	?	12.00
88		0.0000	20.928		4785	2.67	T	?	
89		0.0000	21.796		8118	2.79	VB	?	3.15
90		0.0000	22.779		2237	2.91	BV	?	7.20
91		0.0000	22.964		3878	2.93	VV	?	17.40
92		0.0000	25.424		3201	3.25	BV	?	27.00
93		0.0000	25.526		3193	3.26	VV	?	36.00
94		0.0000	26.833		7673	3.43	VB	?	56.90
95		0.0000	28.778		6019	3.68	BV	?	42.20
96		0.0000	29.162		2339	3.73	VB	?	10.45
TOTALS:		0.0692		-0.962	2849620				

DETECTED PKS: 101 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 27.9 OFFSET: -198

RACK: 2 VIAL: 13 INJ: 1

SAVED FILE: P773

N S:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-93 15091781

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/25/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 100

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 10
11104-28-2	Aroclor-1221	< 10
11141-16-5	Aroclor-1232	< 10
53469-21-9	Aroclor-1242	21
12672-29-6	Aroclor-1248	< 10
11097-69-1	Aroclor-1254	< 20
11096-82-5	Aroclor-1260	< 20

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

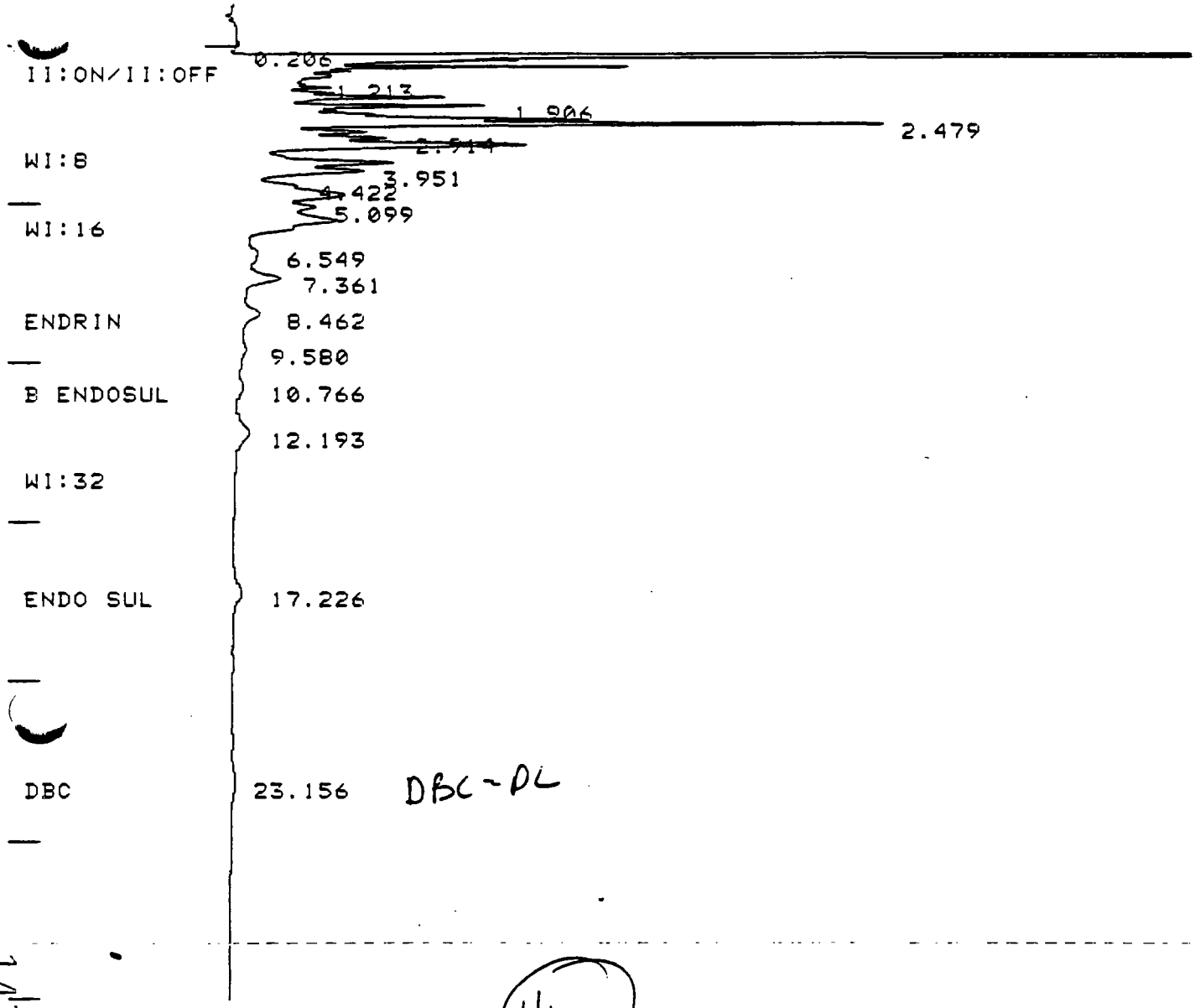
W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4

varian /sunnyvale calif p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



147

11/100

1242 = 2.98 x .072 x 1 x 100 = 21 µg

TITLE: RUN # 41 08-93 10:15 7 NOV 85

CHANNEL NO: 2 SAMPLE: 1509178I METHOD: 2A PP-1

PEAK #	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.300		91300	VB		4.40
2		0.0000	0.475		1105	BB		1.65
3		0.0000	0.677		4326	BV		2.35
4		0.0000	0.817		473	VV		1.90
5		0.0000	0.924		317	VV	?	3.30
6		0.0000	0.973		376	VV	?	5.00
7		0.0000	1.213		170	VV		2.80
8		0.0000	1.315		562	VV		3.45
9		0.0000	1.484		559	VV		1.75

147

(11100)

1242 = 2.98 x .072 x 1 x 100 = 21 µg

08-93

TITLE: RUN # 41 10:15 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091781 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.300		91300	VB		4.40
2		0.0000	0.475		1105	BB		1.65
3		0.0000	0.677		4326	BV		2.35
4		0.0000	0.817		473	VV		1.90
5		0.0000	0.924		317	VV	?	3.30
6		0.0000	0.973		376	VV	?	5.00
7		0.0000	1.213		170	VV		2.80
8		0.0000	1.315		562	VV		3.45
9		0.0000	1.484		659	VV		4.75
10	A-BHC	0.0018	1.626	0.006	2318	VV		4.95
11		0.0000	1.906		2959	VV		4.60
12	G-BHC	0.0008	~~2.042~~	-0.008	~~789~~	VV	?	5.00
13		0.0000	2.164		1372	VV	?	5.70
14	B-BHC	0.0131	2.344	-0.016	4446	VV	?	7.30
15		0.0000	2.479		9018	VV	?	3.70
16	D-BHC	0.0023	2.724	-0.016	1349	VV		7.45
17	ALDRIN	0.0025	2.914	-0.096	1670	VV	?	7.00
18		0.0000	3.134		3799	VV		9.85
19		0.0000	3.696	2.98	1895	VV		10.00
20		0.0000	3.951		1478	VV	?	12.15
21		0.0000	4.422		524	VV	?	10.90
22		0.0000	4.725		1280	VV	?	20.85
23		0.0000	5.099		879	VV	?	14.70
24	A ENDOSUL	0.0040	5.533	-0.247	1226	VV	?	23.55
25		0.0000	6.549		139	VV		26.85
26	DIELDRIN	0.0020	7.361	0.251	498	VB		16.65
27	ENDRIN	0.0013	8.462	-0.168	232	BV		20.50
28		0.0000	12.193		196	BB	?	30.20
29	ENDO SUL	0.0020	17.226	-0.054	113	BB		40.90
TOTALS:		0.0298		-0.348	135468			

DETECTED PKS: 34 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 79

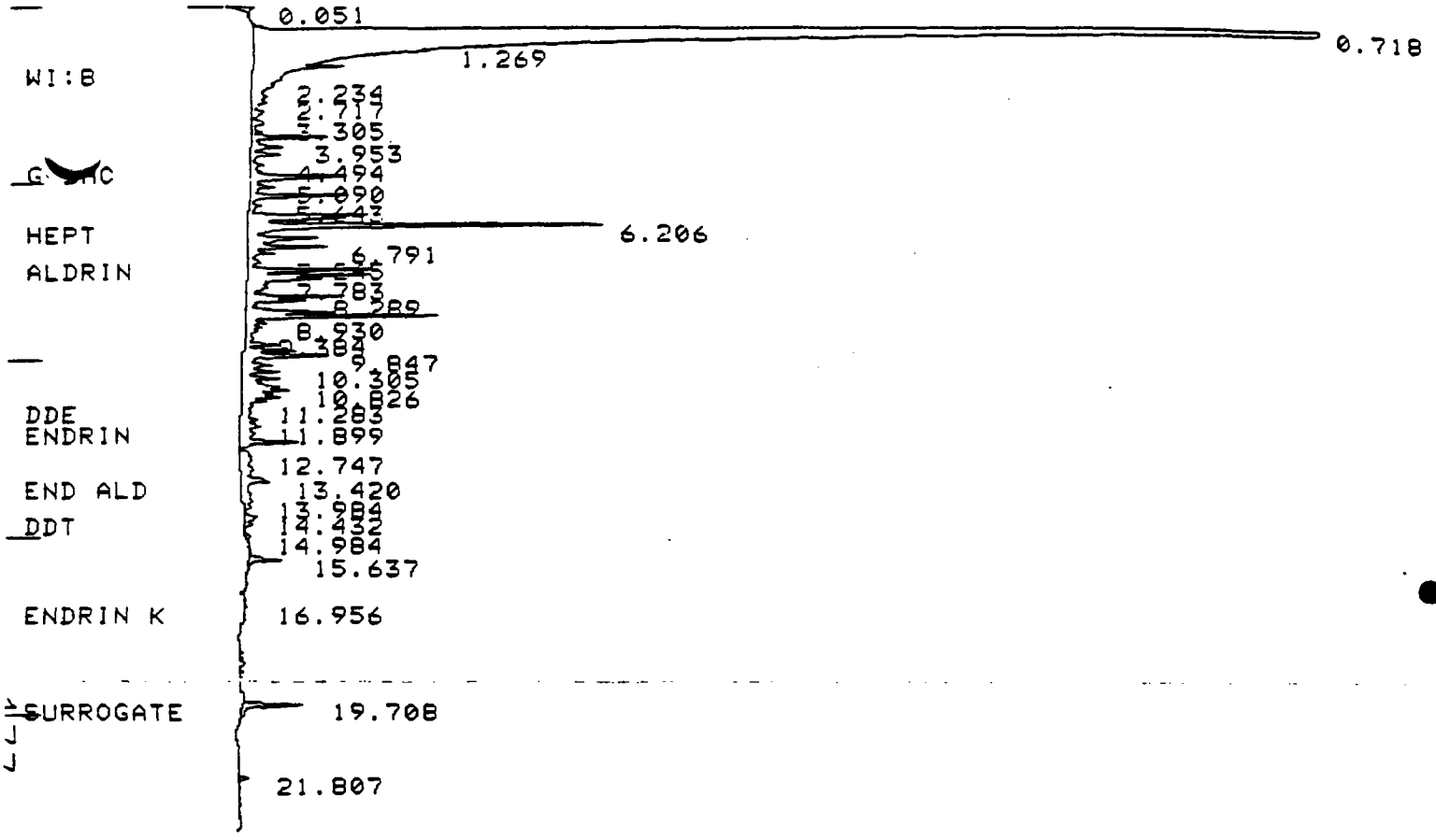
RACK: 3 VIAL: 3 INJ: 1

SAVED FILE: P1216

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale, calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



GC#6, SPB-5, 2ul INJECTED

TITLE: RUN# 30 08-93 13:29 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091781 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.051		3367	0.01	BB	?	3.10
2		0.0000	0.718		871041	0.09	BV		6.30
3		0.0000	1.269		72750	0.16	VV	?	26.70
4		0.0000	1.719		22437	0.22	VV	?	8.50
5		0.0000	1.961		2772	0.25	VV	?	
6		0.0000	2.057		6817	0.26	VV	?	2.40
7		0.0000	2.234		7234	0.29	VV	?	3.20
8		0.0000	2.542		3423	0.33	VV	?	4.60
9		0.0000	2.717		4034	0.35	VV	?	9.05
10		0.0000	2.981		2532	0.38	VV	?	3.80
11		0.0000	3.305		3379	0.43	VV		8.95
12		0.0000	3.550		1912	0.46	VV		3.35
13	A-BHC	0.0021	3.684	-0.016	9291	0.47	VV		3.65
14		0.0000	3.953		7107	0.51	VV		4.45
15	B-BHC	0.0038	4.175	-0.175	5166	0.54	VV		4.00
	G-BHC	0.0007	4.494	-0.016	2887	0.58	VV		3.75
		0.0000	4.687		1832	0.60	VV	?	8.90
		0.0000	4.796		18477	0.62	VV		6.60
19		0.0000	5.090		3789	0.65	VV		4.15
20	D-BHC	0.0004	5.175	-0.025	1241	0.67	VV	?	
21		0.0000	5.341		13821	0.69	VV		4.15
22		0.0000	5.643		2610	0.73	VV		4.00
23		0.0000	5.909		12471	0.76	VV	?	3.20
24		0.0000	5.984		11791	0.77	VV	?	4.70
25		0.0000	6.206		57729	0.80	VV		4.90

Run #30
08-93
15091781

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.051		3367	0.01	BB	?	3.10
2		0.0000	0.718		871041	0.09	BV		6.30
3		0.0000	1.269		72750	0.16	VV	?	26.70
4		0.0000	1.719		22437	0.22	VV	?	8.50
5		0.0000	1.961		2772	0.25	VV	?	
6		0.0000	2.057		6817	0.26	VV	?	2.40
		0.0000	2.234		7234	0.29	VV	?	3.20
		0.0000	2.542		3423	0.33	VV	?	4.60
9		0.0000	2.717		4034	0.35	VV	?	9.05
10		0.0000	2.981		2532	0.38	VV	?	3.80
11		0.0000	3.305		3379	0.43	VV		8.95
12		0.0000	3.550		1912	0.46	VV		3.35
13	A-BHC	0.0021	3.684	-0.016	9291	0.47	VV		3.65
14		0.0000	3.953		7107	0.51	VV		4.45
15	B-BHC	0.0038	4.175	-0.175	5166	0.54	VV		4.00
16	G-BHC	0.0007	4.494	-0.016	2887	0.58	VV		3.75
17		0.0000	4.687		1832	0.60	VV	?	8.90
18		0.0000	4.796		18477	0.62	VV		6.60
19		0.0000	5.090		3789	0.65	VV		4.15
20	D-BHC	0.0004	5.175	-0.025	1241	0.67	VV	?	
21		0.0000	5.341		13821	0.69	VV		4.15
22		0.0000	5.643		2610	0.73	VV		4.00
23		0.0000	5.909		12471	0.76	VV	?	3.20
24		0.0000	5.984		11791	0.77	VV	?	4.70
25		0.0000	6.206		57729	0.80	VV		4.90
26	HEPT	0.0060	6.540	-0.120	13815	0.84	VV		5.10
27		0.0000	6.791		11801	0.87	VV		4.05
28		0.0000	6.964		5043	0.89	VV		3.85
29		0.0000	7.245		3403	0.93	VV		7.40
30		0.0000	7.436		15849	0.95	VV		3.95
31		0.0000	7.587		14594	0.98	VV		3.85
32		0.0000	7.686		10837	0.99	VV	?	5.55
33	ALDRIN	0.0006	7.783	-0.047	2233	1.00	VV	?	
34		0.0000	7.917		4028	1.02	VV	?	4.90
35		0.0000	7.985		2019	1.03	VV	?	4.05
36		0.0000	8.175		11879	1.05	VV		3.90
		0.0000	8.289		8065	1.07	VV	?	4.60
		0.0000	8.418		1398	1.08	VV	?	3.10
		0.0000	8.622		14839	1.11	VV		5.80
40		0.0000	8.732		24538	1.12	VV		4.10
41		0.0000	8.930		3604	1.15	VV		4.80
42		0.0000	9.065		2577	1.16	VV	?	5.30
43		0.0000	9.170		2949	1.18	VV	?	4.60
44	HEPT EP	0.0009	9.384	-0.006	2247	1.21	VV		4.55
45		0.0000	9.539		4894	1.23	VV		3.75
46		0.0000	9.704		6652	1.25	VV		3.85
47		0.0000	9.847		15352	1.26	VV		5.20
48		0.0000	10.114		5652	1.30	VV		4.40
49		0.0000	10.305		5399	1.32	VV		4.10
50		0.0000	10.493		5192	1.35	VV		3.85
51		0.0000	10.604		1919	1.36	VV	?	3.30
52	A ENDO	0.0025	10.727	-0.043	6626	1.38	VV	?	6.50
53		0.0000	10.826		6044	1.39	VV	?	4.85
54		0.0000	10.935		4177	1.40	VV	?	4.70
55		0.0000	11.026		5201	1.42	VV	?	4.70
56		0.0000	11.148		3798	1.43	VV	?	4.40
57		0.0000	11.283		2387	1.45	VV		3.45
58		0.0000	11.467		1881	1.47	VV		4.50
59		0.0000	11.688		3930	1.50	VV		4.30
60	DIELDRIN	0.0019	11.899	0.049	4994	1.53	VV		8.35
61	DDE	0.0016	12.090	-0.040	4386	1.55	VV		6.05
62		0.0000	12.309		10029	1.58	VV		4.55
63	ENDRIN	0.0015	12.747	0.047	3236	1.64	VV	?	14.10
64		0.0000	12.851		2483	1.65	VV	?	2.60
65	B ENDO	0.0016	13.097	-0.043	3621	1.68	VV	?	13.70
66		0.0000	13.420		9082	1.72	VV	?	4.90
	DDD	0.0015	13.774	-0.126	2911	1.77	VV	?	5.40
	END ALD	0.0016	13.984	-0.026	3059	1.80	VV	?	3.40
		0.0000	14.155		1714	1.82	VV	?	5.50
70		0.0000	14.432		3697	1.85	VV		11.90
71	ENDO SO4	0.0008	14.649	-0.391	1631	1.88	VV	?	8.25
72	DDT	0.0038	15.637	0.147	6581	2.01	BB		4.95
73	SURROGATE	0.0045	19.708	-0.042	10193	2.53	BB		4.90
74		0.0000	21.807		1287	2.80	BB		4.75
TOTALS:		0.0358		-0.873	1453640				

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-94 15091782

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/25/85

Date Analyzed: 11/07/85

Conc/Dil Factor: 100

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 10
11104-28-2	Aroclor-1221	< 10
11141-16-5	Aroclor-1232	< 10
53469-21-9	Aroclor-1242	22
12672-29-6	Aroclor-1248	< 10
11097-69-1	Aroclor-1254	< 20
11096-82-5	Aroclor-1260	< 20

V_i = Volume of extract injected (ul)

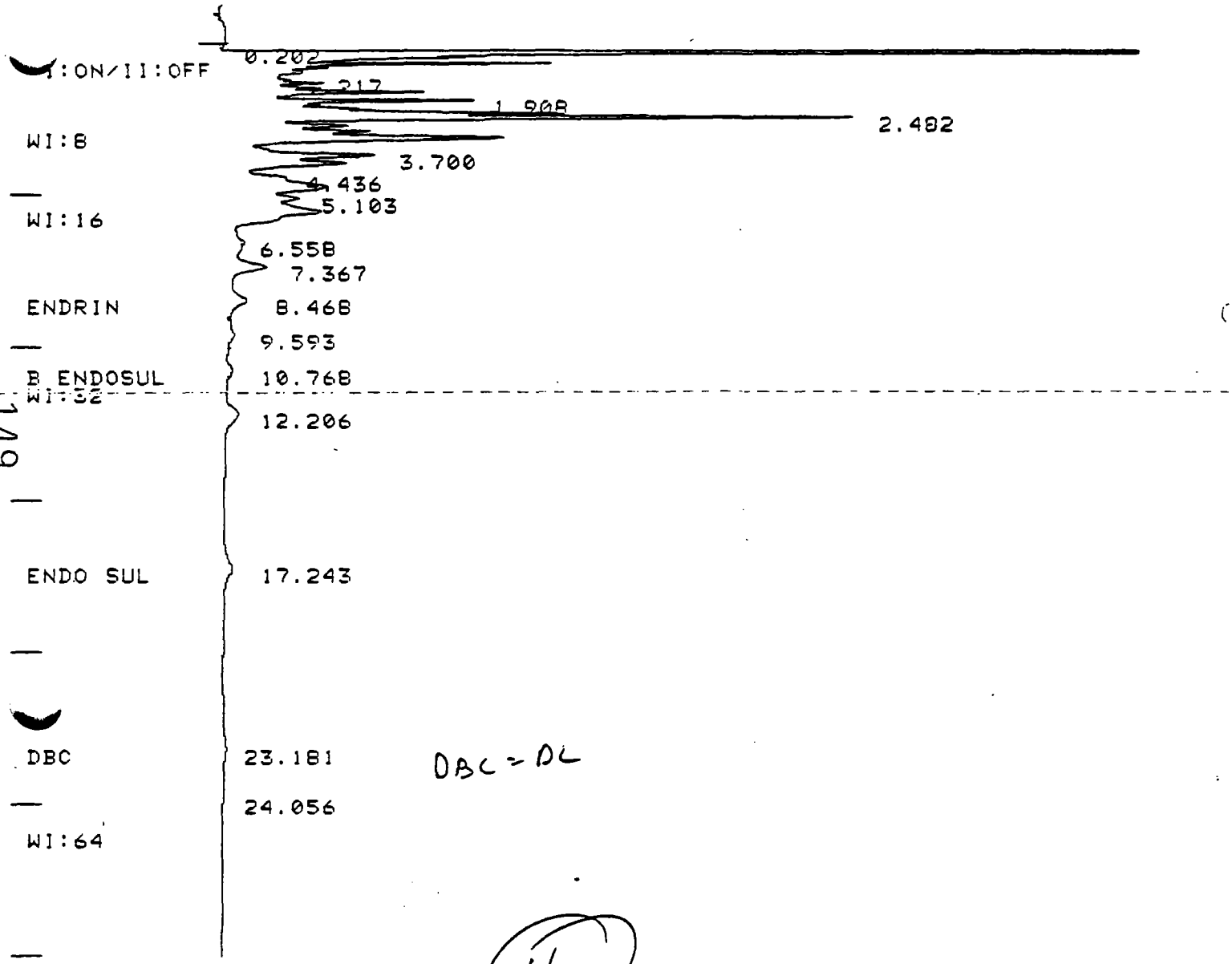
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



DBC = DL

1/100

1242 = 3.06 x .072 x 1 x 100 = 22 µg

08-94

TITLE: RUN # 42 10:48 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091782 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.299		88658	VB		4.40
2		0.0000	0.474		859	BB		1.45
3		0.0000	0.677		3695	BV		2.35
4		0.0000	0.817		451	VV		2.05
5		0.0000	0.923		183	VV	?	2.90
6		0.0000	0.974		348	VB	?	3.95
7		0.0000	1.217		226	VV	?	3.30
8		0.0000	1.317		750	VV		4.00
9		0.0000	1.486		719	VV		4.45
10	--E-1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

varian /sunnyvale,calif.p/n 03-906362-00

(1/100)

1242 = 3.06 x .072 x 1 x 100 = 22 ug

08-94

TITLE: RUN # 42 10:48 7 NOV 85

CHANNEL NO: 2 SAMPLE: 15091782 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.299		88658	VB		4.40
2		0.0000	0.474		859	BB		1.45
3		0.0000	0.677		3695	BV		2.35
4		0.0000	0.817		451	VV		2.05
5		0.0000	0.923		183	VV	?	2.90
6		0.0000	0.974		248	VB	?	3.95
7		0.0000	1.217		226	VV	?	3.30
8		0.0000	1.317		750	VV		4.00
9		0.0000	1.486		719	VV		4.45
10	A-BHC	0.0018	1.627	0.007	2359	VV		4.85
11		0.0000	1.908		3158	VV		4.60
12	G-BHC	0.0009	~~2.044~~	-0.006	~~819~~	VV	?	4.90
13		0.0000	2.167		1436	VV	?	5.60
14	B-BHC	0.0136	2.347	-0.013	4606	VV	?	7.30
15		0.0000	2.482		9195	VV	?	3.75
16	D-BHC	0.0024	2.727	-0.013	1363	VV		7.40
17	ALDRIN	0.0025	2.917	-0.093	1699	VV	?	7.10
18		0.0000	3.137		3828	VV		9.90
19		0.0000	3.700		1901	VV		10.00
20		0.0000	3.956	3.06	1498	VV		12.35
21		0.0000	4.436		606	VV	?	11.50
22		0.0000	4.729		1271	VV	?	21.50
23		0.0000	5.103		889	VV	?	14.40
24	A ENDOSUL	0.0042	5.540	-0.240	1274	VV	?	23.70
25		0.0000	6.558		143	VV		27.90
26	DIELDRIN	0.0021	7.367	0.257	514	VB		16.70
27	ENDRIN	0.0014	8.468	-0.162	247	BV		20.50
28		0.0000	12.206		197	BB		30.25
29	ENDO SUL	0.0020	17.243	-0.037	113	BB		41.90
TOTALS:		0.0309		-0.300	132905			

DETECTED PKS: 36 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: 57

RACK: 3 VIAL: 4 INJ: 1

SAVED FILE: P1217

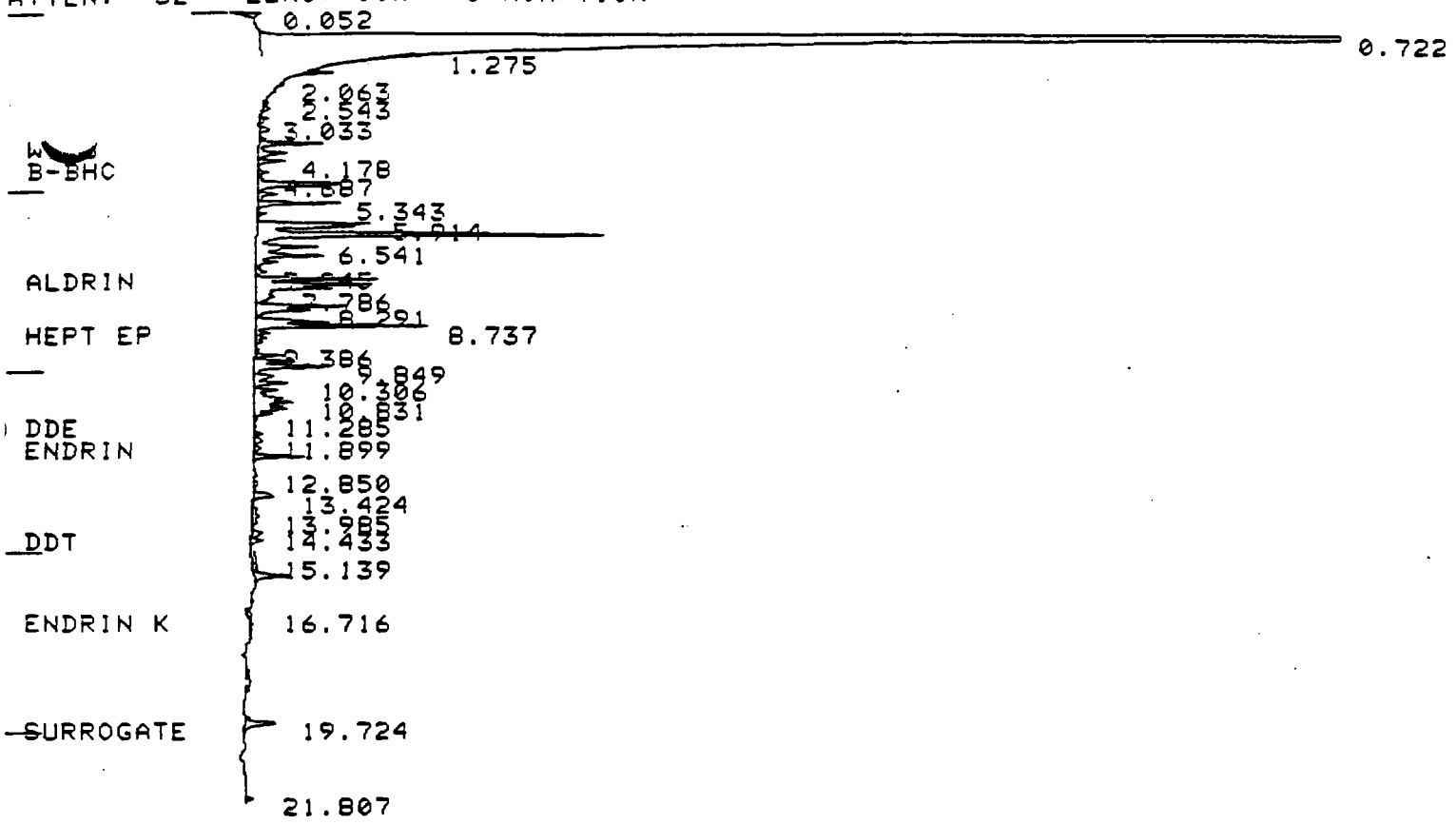
NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

150

varian / sunnyvale calif. p/n 03-906362-00

TITLE: RUN# 42 08-92 10:48 7 NOV 85

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



GC#6, SPB-5, 2ul INJECTED

TITLE: RUN# 31 08-94 13:58 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091782 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3465	0.01	BB	?	3.10
2		0.0000	0.722		899745	0.09	BV		6.50
3		0.0000	1.275		1713	0.16	T	?	2.60
4		0.0000	1.722		2920	0.22	T	?	8.85
5		0.0000	2.719		1145	0.35	VB		3.50
6		0.0000	3.307		1927	0.43	BV		7.75
7	A-BHC	0.0017	3.688	-0.012	7343	0.47	VV		3.70
8		0.0000	3.956		4910	0.51	VV		4.50
9	B-BHC	0.0024	4.178	-0.172	3269	0.54	VV		3.90
10	G-BHC	0.0004	4.499	-0.011	1412	0.58	VV		3.60
11		0.0000	4.799		15864	0.62	VV		6.70
12	D-BHC	0.0009	5.095	-0.105	2964	0.65	VV		4.20
13		0.0000	5.343		10755	0.69	VV		4.25
14		0.0000	5.645		1114	0.73	VV		4.45
15		0.0000	5.914		11643	0.76	VV	?	3.50
		0.0000	5.989		11169	0.77	VV	?	4.80
		0.0000	6.208		52810	0.80	VV		4.80
	HEPT	0.0048	6.541	-0.119	10908	0.84	VV		5.00
19		0.0000	6.791		9417	0.87	VV		4.20
20		0.0000	6.966		3248	0.89	VV		4.00
21		0.0000	7.245		1657	0.93	VV		4.95
22		0.0000	7.437		14093	0.95	VV		3.95
23		0.0000	7.587		13264	0.97	VV		4.00
24		0.0000	7.682		9437	0.99	VV	?	5.25
25	ALDRIN	0.0004	7.786	-0.[illegible]	1382	1.00	VV	?	

TITLE: RUN# 31 08-94 13:58 8 NOV 85

CHANNEL NO: 1 SAMPLE: 15091782 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.052		3465	0.01	BB	?	3.10
		0.0000	0.722		899745	0.09	BV		6.50
		0.0000	1.275		1713	0.16	T	?	2.60
4		0.0000	1.722		2920	0.22	T	?	8.85
5		0.0000	2.719		1145	0.35	VB		3.50
6		0.0000	3.307		1927	0.43	BV		7.75
7	A-BHC	0.0017	3.688	-0.012	7343	0.47	VV		3.70
8		0.0000	3.956		4910	0.51	VV		4.50
9	B-BHC	0.0024	4.178	-0.172	3269	0.54	VV		3.90
10	G-BHC	0.0004	4.499	-0.011	1412	0.58	VV		3.60
11		0.0000	4.799		15864	0.62	VV		6.70
12	D-BHC	0.0009	5.095	-0.105	2964	0.65	VV		4.20
13		0.0000	5.343		10755	0.69	VV		4.25
14		0.0000	5.645		1114	0.73	VV		4.45
15		0.0000	5.914		11643	0.76	VV	?	3.50
16		0.0000	5.989		11169	0.77	VV	?	4.80
17		0.0000	6.208		52810	0.80	VV		4.80
18	HEPT	0.0048	6.541	-0.119	10908	0.84	VV		5.00
19		0.0000	6.791		9417	0.87	VV		4.20
20		0.0000	6.966		3248	0.89	VV		4.00
21		0.0000	7.245		1657	0.93	VV		4.95
22		0.0000	7.437		14093	0.95	VV		3.95
23		0.0000	7.587		13264	0.97	VV		4.00
24		0.0000	7.682		9437	0.99	VV	?	5.25
25	ALDRIN	0.0004	7.786	-0.044	1382	1.00	VV	?	
26		0.0000	7.917		3330	1.02	VV	?	5.70
27		0.0000	7.985		1430	1.03	VV	?	4.40
28		0.0000	8.177		10513	1.05	VV		4.05
29		0.0000	8.291		7424	1.07	VV	?	4.80
30		0.0000	8.627		11789	1.11	VV		5.60
31		0.0000	8.737		20190	1.12	VV		4.00
		0.0000	8.935		1935	1.15	VV		4.15
		0.0000	9.067		1512	1.16	VV		4.70
		0.0000	9.171		1180	1.18	VV	?	4.10
35	HEPT EP	0.0012	9.539	0.149	3001	1.23	VV		3.80
36		0.0000	9.705		4674	1.25	VV		4.05
37		0.0000	9.849		11678	1.26	VV		5.60
38		0.0000	10.118		3629	1.30	VV		7.50
39		0.0000	10.306		4080	1.32	VV		4.50
40		0.0000	10.495		2950	1.35	VV		4.10
41		0.0000	10.606		1112	1.36	VV	?	3.60
42	A ENDO	0.0018	10.730	-0.040	4868	1.38	VV	?	6.80
43		0.0000	10.831		4654	1.39	VV	?	4.95
44		0.0000	10.938		3157	1.40	VV	?	4.20
45		0.0000	11.028		3852	1.42	VV	?	4.70
46		0.0000	11.149		2330	1.43	VV	?	4.60
47		0.0000	11.692		1143	1.50	VV		4.45
48	DIELDRIN	0.0008	11.899	0.049	2005	1.53	VV		8.40
49	DDE	0.0005	12.090	-0.040	1394	1.55	VV		6.05
50		0.0000	12.313		6243	1.58	VB		4.20
51	B ENDO	0.0005	13.059	-0.081	1207	1.68	VV	?	5.50
52		0.0000	13.424		4909	1.72	VV		7.75
53	DDD	0.0007	13.772	-0.128	1369	1.77	VV	?	5.10
54	END ALD	0.0010	13.985	-0.025	1890	1.80	VV		6.30
55		0.0000	14.161		1351	1.82	VV	?	5.05
56		0.0000	14.433		3009	1.85	VV		8.40
57		0.0000	14.648		1985	1.88	VV		4.20
58	ENDO SO4	0.0011	15.139	0.099	2328	1.94	VV	?	1.90
59	DDT	0.0042	15.637	0.147	7330	2.01	VB	?	3.55
60	SURROGATE	0.0029	19.724	-0.026	6669	2.53	BB	?	4.65
TOTALS:		0.0253		-0.359	1249690				

DETECTED PKS: 77 REJECTED PKS: 17

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 27.9 OFFSET: -167

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-95 15091783

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/29/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 5

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	< 0.5
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

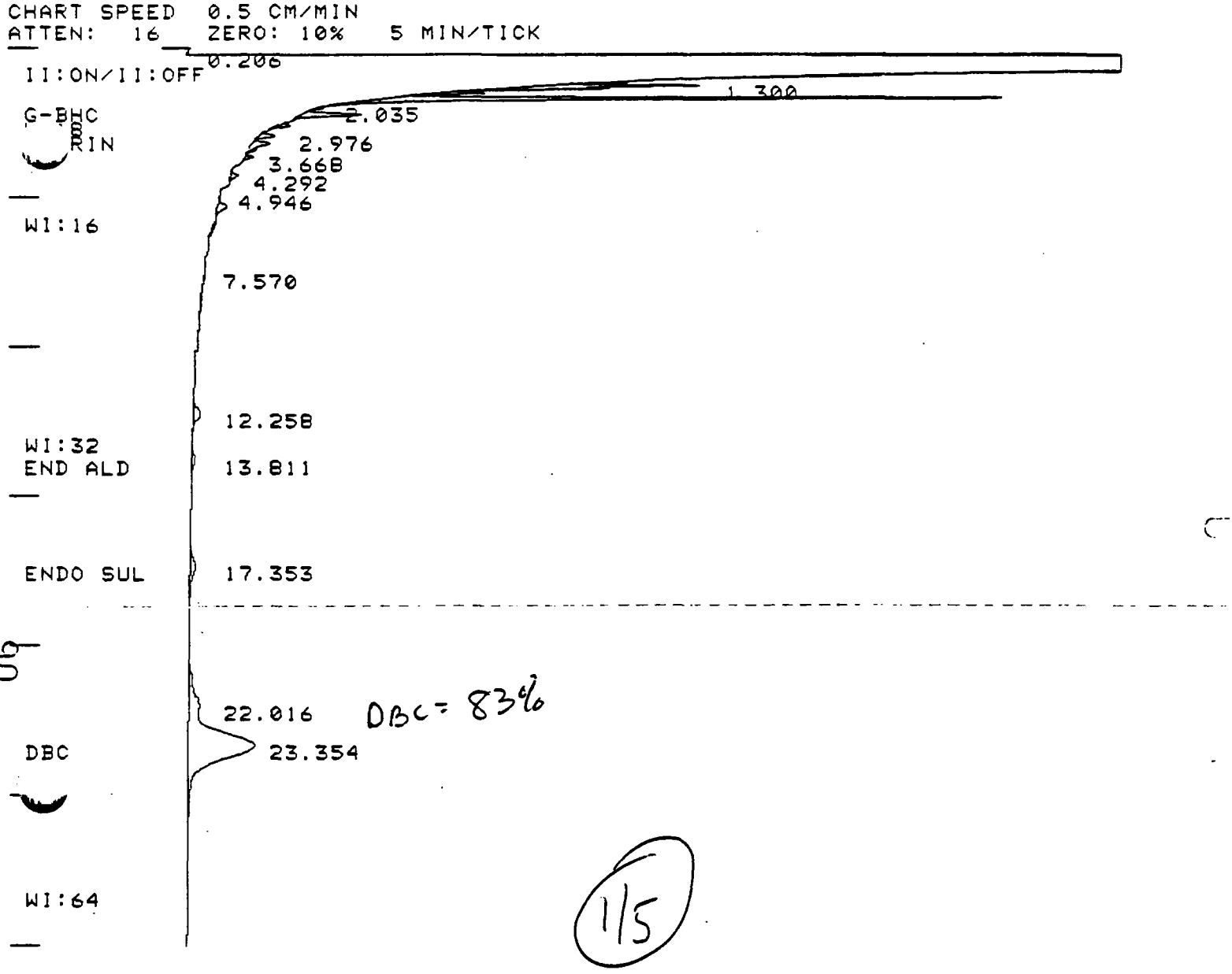
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4



TITLE: RUN # 26 08-95 4:44 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091783 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.278		157126	VV	?	2.00
2		0.0000	0.352		151716	VB	?	5.10
3		0.0000	0.681		36564	BV	?	1.40
4		0.0000	0.821		5669	VB		1.75
5		0.0000	0.965		615	BB		1.70
		0.0000	1.300		2445	BV		3.25
		0.0000	1.390		1666	VV		2.00
8	A-BHC	0.0005	1.543	-0.077	706	VV		2.75
9		0.0000	1.722		9729	VB		4.25
10	B-BHC	0.0027	2.254	-0.106	913	VB		6.35
11	D-BHC	0.0003	2.613	-0.127	178	BB		4.05
12	ALDRIN	0.0004	2.976	-0.034	365	BV		5.95
13		0.0000	3.224		268	VV		7.65
14		0.0000	3.668		125	VB		5.30

varian /sunnyvale.calif.p/n 03

T E: RUN # 26 08-95 4:44 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091783 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.278		157126	VV	?	2.00
2		0.0000	0.352		151716	VB	?	5.10
3		0.0000	0.681		36564	BV	?	1.40
4		0.0000	0.821		5669	VB		1.75
5		0.0000	0.965		615	BB		1.70
6		0.0000	1.300		2445	BV		3.25
7		0.0000	1.390		1666	VV		2.00
8	A-BHC	0.0005	1.543	-0.077	706	VV		2.75
9		0.0000	1.722		9729	VB		4.25
10	B-BHC	0.0027	2.254	-0.106	913	VB		6.35
11	D-BHC	0.0003	2.613	-0.127	178	BB		4.05
12	ALDRIN	0.0004	2.976	-0.034	265	BV		5.95
13		0.0000	3.224		268	VV		7.65
14		0.0000	3.668		125	VB		5.80
15		0.0000	4.292		109	BB		8.70
16		0.0000	5.317		142	VB		12.40
17		0.0000	22.016		162	BV	?	56.00
18	DBC	0.0166	23.354	0.304	1045	VB		56.60
TOTALS:		0.0205		-0.040	369443			

DETECTED PKS: 27 REJECTED PKS: 9

I SOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -99

RACK: 1 VIAL: 12 INJ: 1

SAVED FILE: P1253

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 26 08-95 4:44 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091783 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.278		157126	0.09	VV	?	2.00
2		0.0000	0.352		151716	0.12	VB	?	5.10
3		0.0000	0.681		36564	0.23	BV	?	1.40
4		0.0000	0.821		5669	0.28	VB		1.75
5		0.0000	0.965		615	0.32	BB		1.70
6		0.0000	1.300		2445	0.44	BV		3.25
7		0.0000	1.390		1666	0.47	VV		2.00
8		0.0000	1.543		706	0.52	VV		2.75
9		0.0000	1.722		9729	0.58	VB		4.25
10		0.0000	2.254		913	0.76	VB		6.35

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-96 15091784

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/29/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 5

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	< 0.5
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

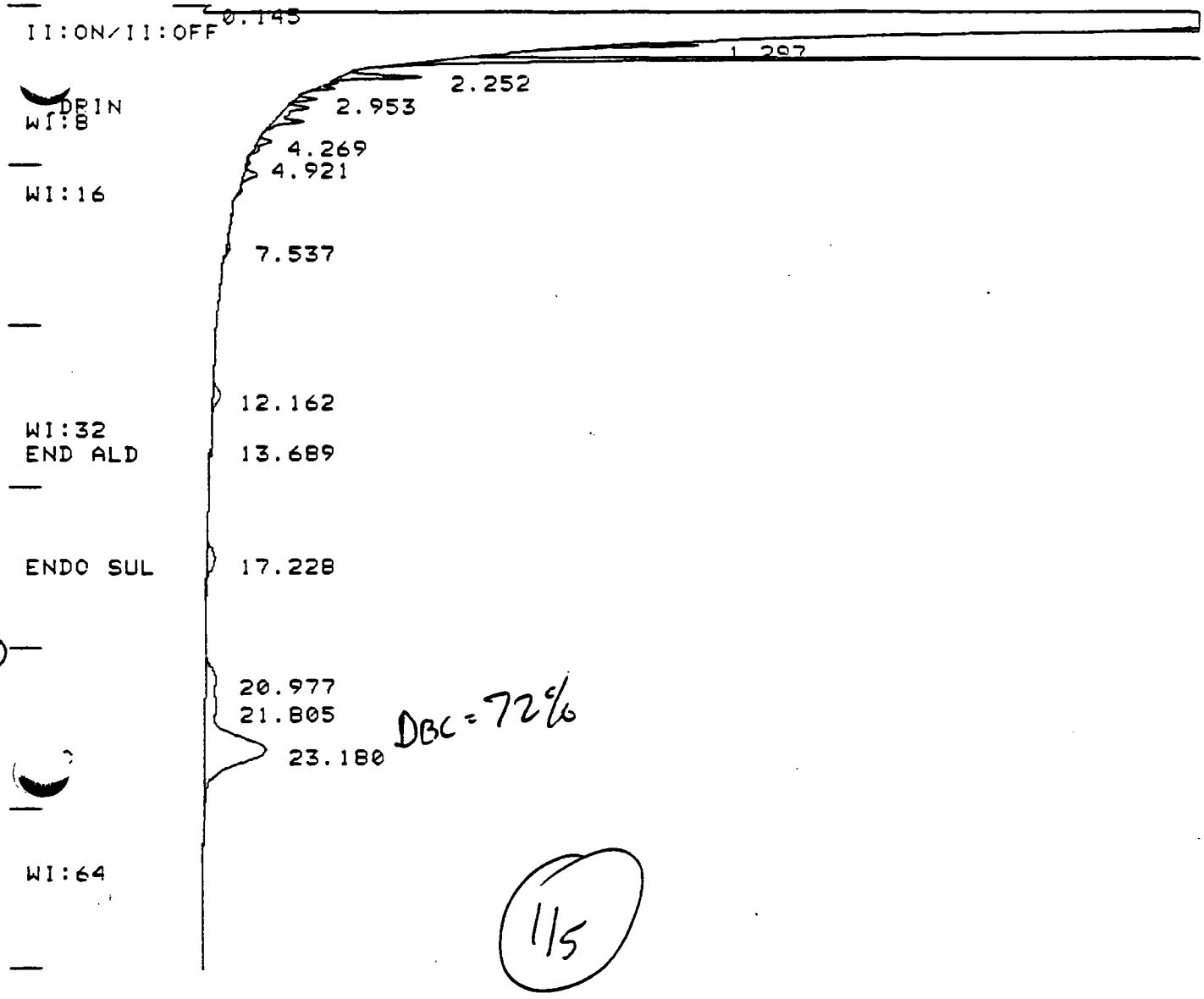
W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

79

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



08-96

TITLE: RUN # 21 1:54 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091784 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		154521	VV	?	2.00
2		0.0000	0.352		146600	VB	?	5.10
3		0.0000	0.479		11798	BB	?	0.65
4		0.0000	0.682		34301	BV		2.50
5		0.0000	0.820		4919	VB		1.65
6		0.0000	1.297		1161	BB		3.05
7		0.0000	1.717		12663	BB		4.25
8	B-BHC	0.0036	2.252	-0.108	1208	BV		6.60
9		0.0000	2.602		293	VB		4.00
10	ALDRIN	0.0005	2.953	-0.057	340	BV		6.15
11		0.0000	3.223		348	VV	?	7.40
12		0.0000	3.422		144	VV		3.70
13		0.0000	3.646		439	VB		[illegible]

varian /sunnyvale calif p/n 03-906362-00

WI:64

115

08-96

TITLE: RUN # 21 1:54 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091784 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		154521	VV	?	2.00
2		0.0000	0.352		146600	VB	?	5.10
3		0.0000	0.479		11798	BB	?	0.65
4		0.0000	0.682		34301	BV		2.50
5		0.0000	0.820		4919	VB		1.65
6		0.0000	1.297		1161	BB		3.05
7		0.0000	1.717		12663	BB		4.25
8	B-BHC	0.0036	2.252	-0.108	1208	BV		6.60
9		0.0000	2.602		293	VB		4.00
10	ALDRIN	0.0005	2.953	-0.057	340	BV		6.15
11		0.0000	3.223		348	VV	?	7.40
12		0.0000	3.422		144	VV		3.70
13		0.0000	3.646		439	VB		6.60
14		0.0000	4.269		212	BV		8.60
15		0.0000	4.536		100	VB		4.40
		0.0000	5.306		206	VB		12.00
		0.0000	12.162		130	BB		26.45
18	ENDO SUL	0.0019	17.228	-0.052	105	BB		38.40
19		0.0000	20.977		143	BV	?	50.50
20		0.0000	21.805		160	VV	?	42.70
21	DBC	0.0144	23.180	0.130	910	VB	?	88.60
TOTALS:		0.0204		-0.087	370701			

DETECTED PKS: 28 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -68

RACK: 1 VIAL: 7 INJ: 1

SAVED FILE: P1248

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 21 68-96 1:54 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091784 METHOD: 2A PP-4

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490 .

Sample Number
08-107

15090311

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-13-85

Date Analyzed: 11-22-85

Conc/Dil Factor: 1

CAS Number		ug/~~ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	0.1
11104-28-2	Aroclor-1221	0.1
11141-16-5	Aroclor-1232	0.1
53469-21-9	Aroclor-1242	0.1
12672-29-6	Aroclor-1248	0.1
11097-69-1	Aroclor-1254 5	~~0.2~~ .38
11096-82-5	Aroclor-1260	0.2

V_i = Volume of extract injected (ul)

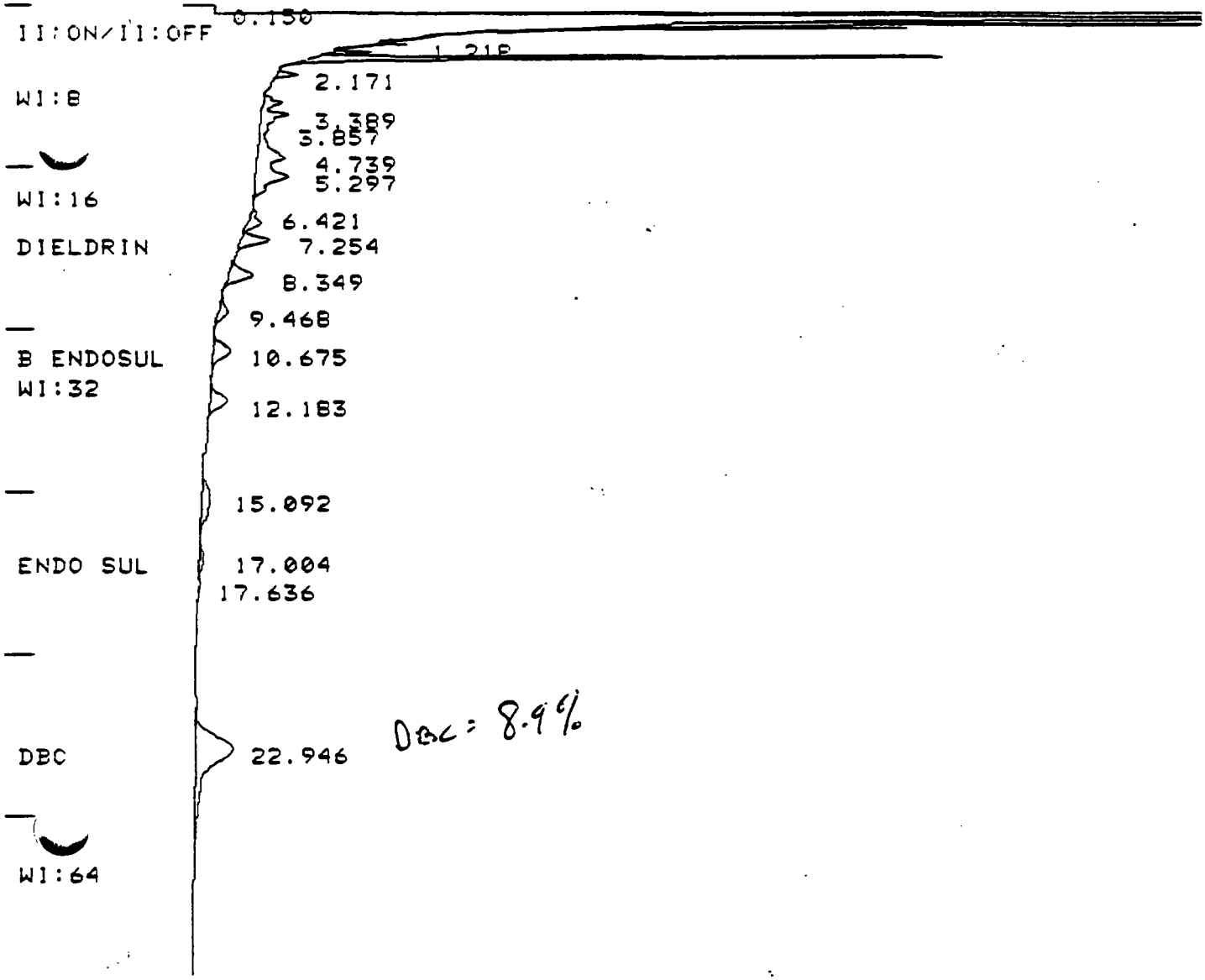
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN # 13 08-107 21:12 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090311 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.325		268810	VB		2.85
2		0.0000	0.470		26096	BB		1.00
3		0.0000	0.647		54162	BV		1.85
4		0.0000	0.775		5461	VB		1.70
5		0.0000	0.978		307	BB		1.80
		0.0000	1.218		596	BB		2.55
		0.0000	1.463		644	BV		3.25
8	A-BHC	0.0071	1.637	0.017	9325	VB		4.55
9		0.0000	2.171		314	BB	?	7.65
10	D-BHC	0.0003	2.867	0.127	145	BV	?	7.00
11	ALDRIN	0.0004	3.019	0.009	292	VV		11.35
12		0.0000	3.[illegible]		422	VV		[illegible]
13		0.0000	3.579		210	VV	?	15.10
14		0.0000	3.857		123	VV	?	10.50
15		0.0000	4.[illegible]		[illegible]	VV	?	[illegible]

W1:64

TITLE: RUN # 13 08-107 21:12 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090311 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.325		268810	VB		2.85
2		0.0000	0.470		26096	BB		1.00
3		0.0000	0.647		54162	BV		1.85
4		0.0000	0.775		5461	VB		1.70
5		0.0000	0.978		307	BB		1.80
6		0.0000	1.218		596	BB		2.55
7		0.0000	1.463		644	BV		3.25
8	A-BHC	0.0071	1.637	0.017	9325	VB		4.55
9		0.0000	2.171		314	BB	?	7.65
10	D-BHC	0.0003	2.867	0.127	145	BV	?	7.00
11	ALDRIN	0.0004	3.019	0.009	292	VV		11.35
12		0.0000	3.309		422	VV		9.70
13		0.0000	3.579		210	VV	?	15.10
14		0.0000	3.857		123	VV	?	10.80
15		0.0000	4.739		413	VV	?	17.80
16		0.0000	5.297		501	VV	?	16.00
17	A ENDOSUL	0.0006	5.701	-0.079	174	VB	?	7.60
18		0.0000	6.713		225	VV		13.00
19	DIELDRIN	0.0017	7.254	0.144	417	VB		14.25
20	ENDRIN	0.0021	8.349	-0.281	355	BB		18.55
21		0.0000	9.468		145	BB		17.80
22	B ENDOSUL	0.0018	10.675	0.075	273	BB		24.70
23		0.0000	12.183		256	BB		26.10
24		0.0000	15.092		115	BV		54.40
25	DBC	0.0089	22.946	-0.104	564	BB		54.15
TOTALS:		0.0229		-0.092	370345			

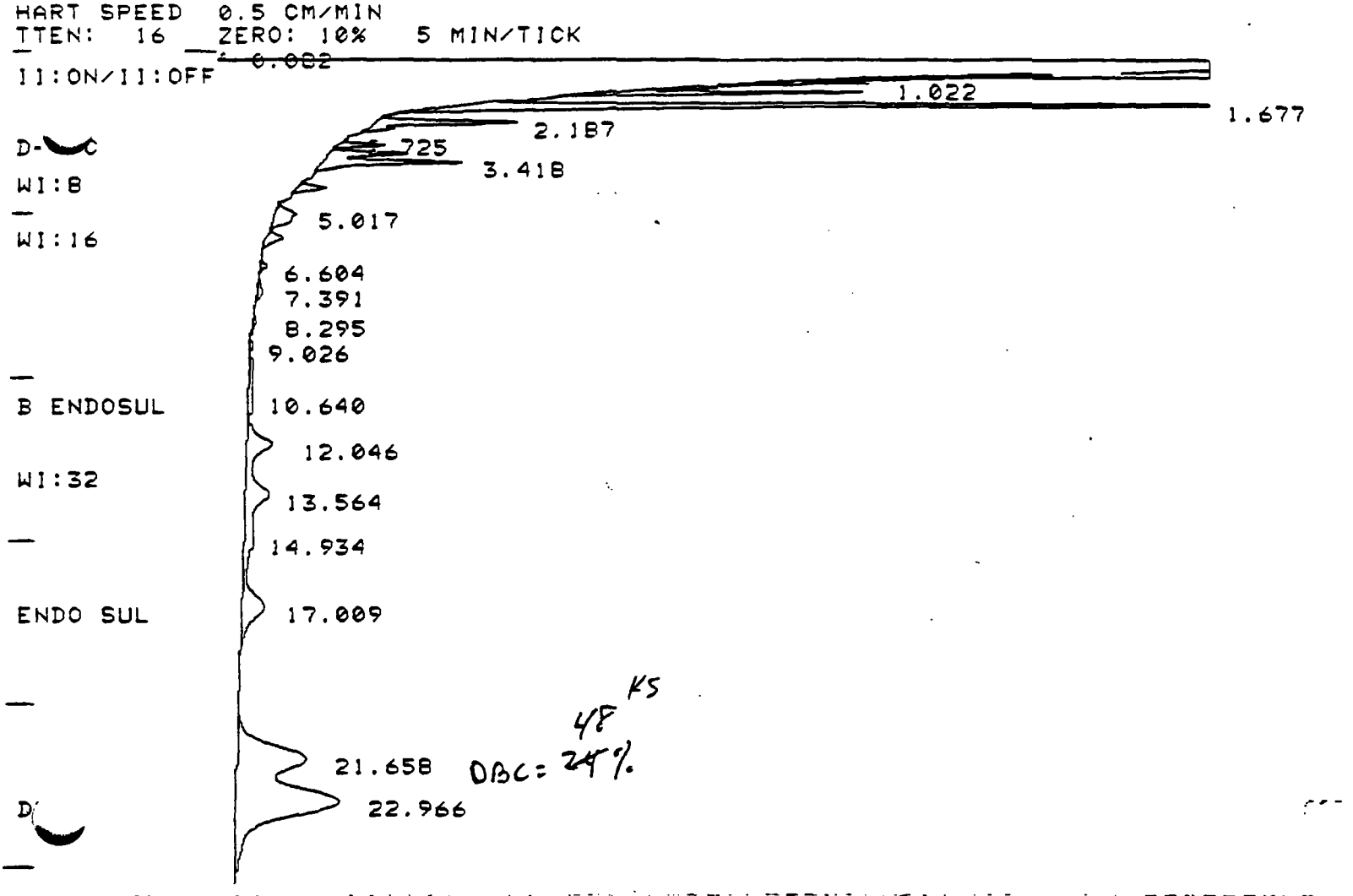
DETECTED PKS: 32 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 12.1 OFFSET: -2

SAVED FILE: P1240

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2



1/2

TITLE: RUN # 14 08-04 21:46 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090506 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.320		122268	VV	?	2.40
2		0.0000	0.363		158002	VB	?	3.60
3		0.0000	0.499		15341	BB	?	0.50
4		0.0000	0.685		71022	BV		2.05
5		0.0000	0.761		1244	T	?	1.35
6		0.0000	0.816		14639	VV		1.70
7		0.0000	0.902		1293	VV		1.65
8		0.0000	1.022		1498	VB		1.90
9		0.0000	1.151		438	BV		1.40
		0.0000	1.264		3570	VB		4.10
[illegible]	A-BHC	0.0244	1.677	0.057	31959	BB		4.20
12		0.0000	2.187		2052	BV	?	7.85
13	B-BHC	0.0012	2.383	0.023	398	VB		3.90
14	ALDRIN	0.0010	2.901	-0.109	67[illegible]	VV		5.90
15		0.0000	3.157		11[illegible]0	VV	?	8.60
16		0.0000	3.418		2021	VB	?	7.80
[illegible]		0.0000	4.204		400	BB		9.00
18		0.0000	5.017		[illegible]	BV	?	14.[illegible]

DBC

21.658 DBC: 97%
22.966

58

1/2

TITLE: RUN # 14 08-04 21:46 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090506 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.320		122268	VV	?	2.40
2		0.0000	0.363		158002	VB	?	3.60
3		0.0000	0.499		15341	BB	?	0.50
4		0.0000	0.685		71022	BV		2.05
5		0.0000	0.761		1244	T	?	1.35
6		0.0000	0.816		14639	VV		1.70
7		0.0000	0.902		1293	VV		1.65
8		0.0000	1.022		1498	VB		1.90
9		0.0000	1.151		438	BV		1.40
10		0.0000	1.284		3570	VB		4.10
11	A-BHC	0.0244	1.677	0.057	31959	BB		4.20
12		0.0000	2.187		2052	BV	?	7.85
13	B-BHC	0.0012	2.383	0.023	398	VB		3.90
14	ALDRIN	0.0010	2.901	-0.109	676	VV		5.90
15		0.0000	3.157		1160	VV	?	8.60
		0.0000	3.418		2021	VB	?	7.80
17		0.0000	4.204		400	BB		9.00
18		0.0000	5.017		292	BV	?	14.90
19		0.0000	5.178		262	VV	?	17.70
20	A ENDOSUL	0.0008	5.753	-0.027	238	VB		12.25
21		0.0000	12.046		369	VV		29.50
22	END ALD	0.0054	13.564	-0.546	351	VV		35.75
23		0.0000	14.934		124	VV	?	44.50
24	ENDO SUL	0.0063	17.009	-0.271	350	VB		41.00
25		0.0000	21.658		1007	BV	?	53.50
26	DBC	0.0240	22.966	-0.084	1512	VV	?	59.50
TOTALS:		0.0631		-0.957	432486			

DETECTED PKS: 35 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 1.00000

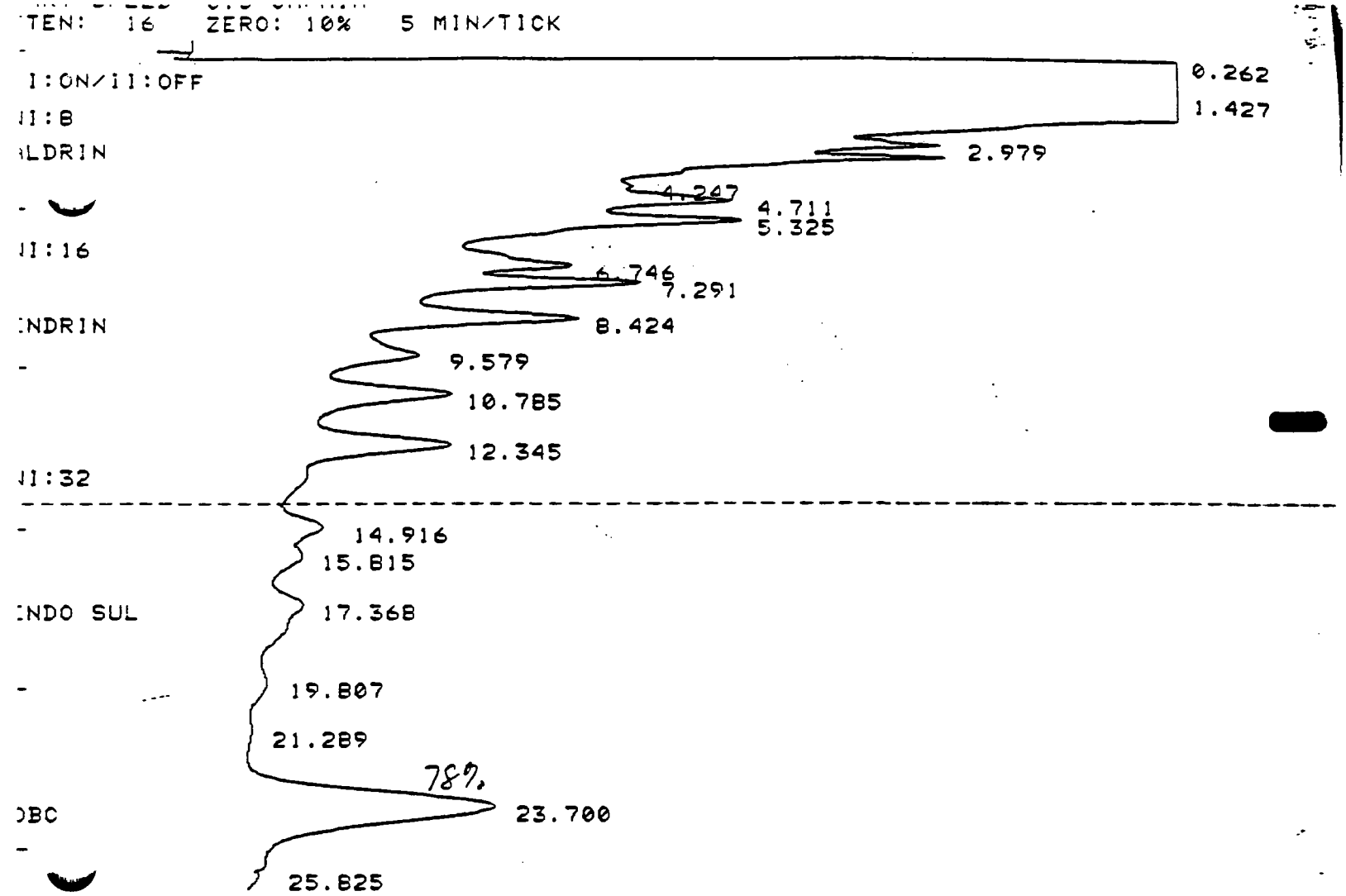
NOISE: 7.3 OFFSET: 16

SAVED FILE: P1241

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC =2

varian /sunnyvale calif.p/n 03-906362-00

14 08-04



$\frac{1.0}{4.86} = .205$

$.205 \times 1.85 = .38$

TITLE: RUN # 37 08-107 17:23 22 NOV 85

CHANNEL NO: 2 SAMPLE: 15090311 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.262		179993	BV	?	2.50
2		0.0000	0.333		212838	VB	?	6.80
3		0.0000	0.594		100878	BV	?	2.85
4		0.0000	0.720		7886	T		1.55
5		0.0000	1.165		2794	BB		2.70
6		0.0000	1.427		6075	BV	?	4.50
7	A-BHC	0.0542	1.586	0.026	58212	VB		6.75
8		0.0000	2.108		2748	BB		6.20
9	ALDRIN	0.0036	2.979	0.059	1901	BV		9.35
10		0.0000	3.362		2963	VB		8.00
11		0.0000	4.247		363	BV	?	10.10
12		0.0000	4.711		2402	VV	?	16.05
13		0.0000	5.325		3245	VB		14.00
14	DIELDRIN	0.0100	6.746	-0.234	1929	BV		20.55
15		0.0000	7.291	1.85	3191	VV		18.05
16	ENDRIN	0.0200	8.424	-0.066	2817	VV		22.35
17		0.0000	9.579		1025	VV		22.55
18	E ENDOSUL	0.0161	10.785	0.325	1890	VV		29.15
19		0.0000	12.345		2065	VB	?	31.95

$\frac{1.0}{4.86} = .205$

$.205 \times 1.85 = .38$

ITLE: RUN # 37 08-107 17:23 22 NOV 85

HANNEL NO: 2 SAMPLE: 15090311 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.262		179993	BV	?	2.50
2		0.0000	0.333		212838	VB	?	6.80
3		0.0000	0.594		100878	BV	?	2.85
4		0.0000	0.720		7886	T		1.55
5		0.0000	1.165		2794	BB		2.70
6		0.0000	1.427		6075	BV	?	4.50
7	A-BHC	0.0542	1.586	0.026	58212	VB		6.75
8		0.0000	2.108		2748	BB		6.20
9	ALDRIN	0.0036	2.979	0.059	1901	BV		9.35
10		0.0000	3.362		2963	VB		8.00
11		0.0000	4.247		363	BV	?	10.10
12		0.0000	4.711		2402	VV	?	16.05
13		0.0000	5.325		3245	VB		14.00
14	DIELDRIN	0.0100	6.746	-0.234	1929	BV		20.55
15		0.0000	7.291		3191	VV		18.05
16	ENDRIN	0.0200	8.424	-0.066	2817	VV		22.35
17		0.0000	9.579		1025	VV		22.55
18	B ENDOSUL	0.0161	10.785	0.325	1890	VV		29.15
19		0.0000	12.345		2065	VB	?	31.95
20		0.0000	14.916		662	BV		39.70
21		0.0000	15.815		413	VV	?	42.80
22	ENDO SUL	0.0103	17.368	0.168	533	VV		55.45
23		0.0000	19.807		177	VB		34.30
24	DBC	0.0777	23.700	0.220	3687	BV	?	65.40
25		0.0000	25.825		146	VV	?	27.45
TOTALS:		0.1919		0.498	600833			

1.85

.084

3.14

ETECTED PKS: 26 REJECTED PKS: 1

IVISOR: 1.00000 MULTIPLIER: 1.00000

OISE: 2.4 OFFSET: -81

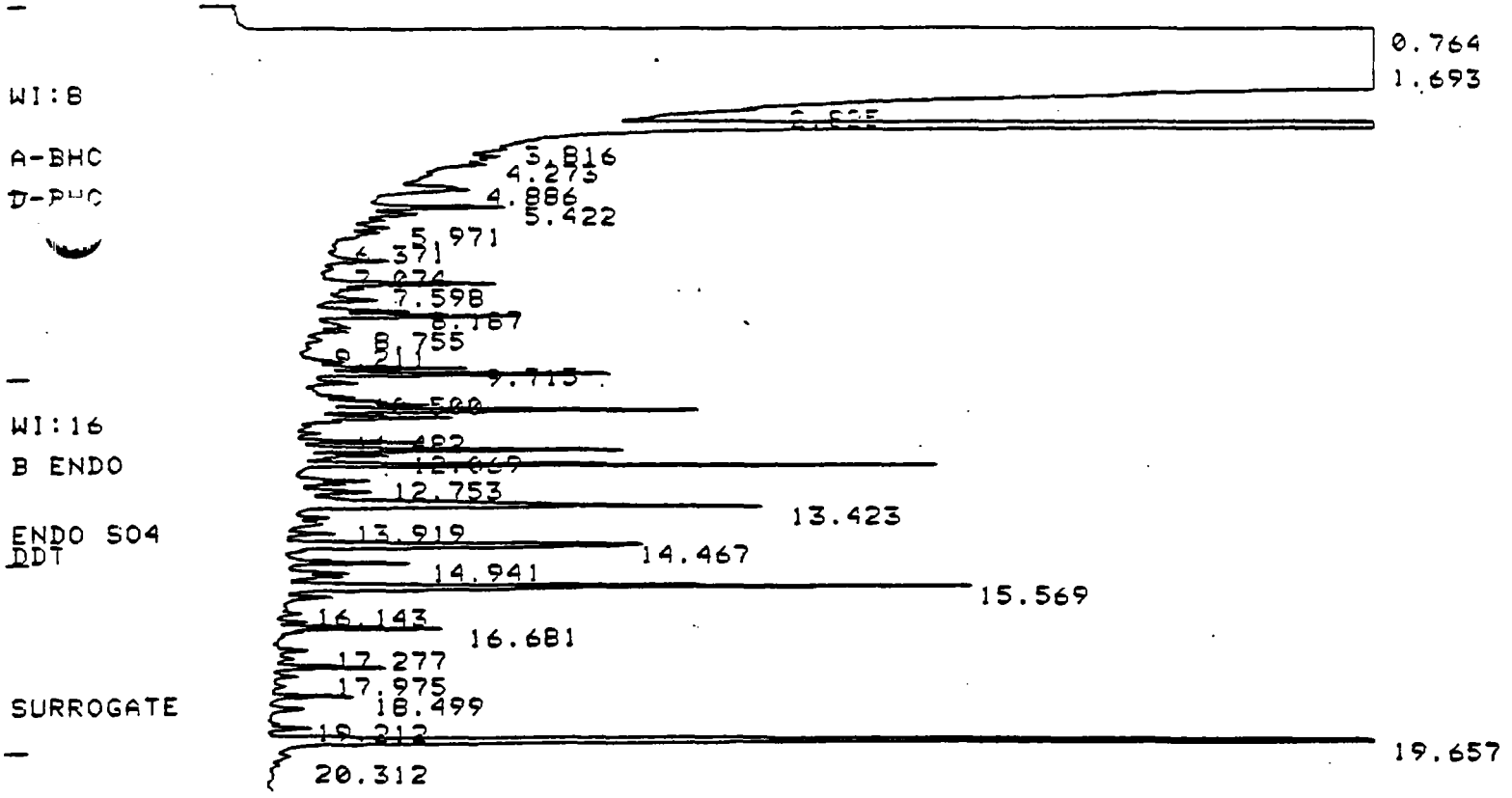
AVED FILE: P1481

OTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

ITLE: RUN= 37 08-107 17:23 22 NOV 85

HANNEL NO: 2 SAMPLE: 15090311 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.262		179993	0.09	BV	?	2.50
2		0.0000	0.333		212838	0.11	VB	?	6.80
3		0.0000	0.594		100878	0.20	BV	?	2.85
4		0.0000	0.720		7886	0.24	T		1.55
5		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]



TITLE: RUN#5 08-107 6:46 22 NOV 85

CHANNEL NO: 2 SAMPLE: 15090311 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.764		12725100	0.10	BV	?	39.10
2		0.0000	1.693		2258730	0.22	VV	?	9.00
3		0.0000	2.201		460683	0.29	VV	?	5.30
4		0.0000	2.423		415061	0.31	VV	?	2.40
5		0.0000	2.825		209412	0.37	VV	?	2.60
6		0.0000	3.197		1036080	0.42	VV	?	5.95
7	A-BHC	0.0013	3.816	0.226	6783	0.50	VV	?	
8		0.0000	3.875		59834	0.50	VV	?	3.80
9		0.0000	4.068		45997	0.53	VV	?	7.80
10		0.0000	4.151		35662	0.54	VV	?	2.55
11	B-BHC	0.0421	4.273	0.033	66759	0.55	VV	?	5.20
12	G-BHC	0.0032	4.421	0.021	15238	0.57	VV	?	
13		0.0000	4.505		14836	0.59	VV	?	1.6[illegible]
14		0.0000	4.563		27177	0.59	VV	?	1.60
15		0.0000	4.628		42175	0.60	VV	?	
16		0.0000	4.886		34298	0.63	VV	?	10.00
17		0.0000	4.956		66676	0.64	VV	?	3.60
18	D-BHC	0.0059	5.177	0.107	22306	0.67	VV	?	
19		0.0000	5.422		62898	0.70	VV	?	15.30
20		0.0000	5.605		44516	0.73	VV	?	7.40
[illegible]		0.0000	5.782		26266	0.75	VV	?	5.15
[illegible]		0.0000	5.971		53383	0.78	VV	?	10.50
[illegible]		0.0000	6.103		24045	0.79	VV	?	6.05
24		0.0000	6.214		20889	0.81	VV	?	2.10
25		0.0000	6.322		6523	0.82	VV	?	
[illegible]		0.0000	6.371		9579	0.83	VV	?	
[illegible]	HEPT	0.0026	6.526	-0.004	25574	0.85	VV	?	6.50
[illegible]		0.0000	6.853		51537	0.89	VV	?	14.50
[illegible]		0.0000	7.074		23453	0.92	VV	?	7.05

Run #5
08-107
1509031

23		0.0000	6.103		27045	0.77	VV	? 6.05
24		0.0000	6.214		20889	0.81	VV	? 2.10
25		0.0000	6.322		6523	0.82	VV	?
26		0.0000	6.371		9579	0.83	VV	?
27	HEPT	0.0086	6.526	-0.004	25574	0.85	VV	? 6.30
28		0.0000	6.853		51937	0.89	VV	? 14.80
29		0.0000	7.074		23483	0.92	VV	? 7.05
30		0.0000	7.235		6842	0.94	VV	? 3.80
		0.0000	7.285		7404	0.95	VV	? 1.80
		0.0000	7.453		47722	0.97	VV	? 4.15
33		0.0000	7.598		18469	0.99	VV	? 5.00
34	ALDRIN	0.0032	7.693	0.003	13308	1.00	VV	? 1.60
35		0.0000	7.896		41572	1.03	VV	? 14.40
36		0.0000	8.187		27874	1.06	VV	? 8.80
37		0.0000	8.321		47597	1.08	VV	? 4.05
38		0.0000	8.559		17432	1.11	VV	? 11.50
39		0.0000	8.635		13527	1.12	VV	? 3.90
40		0.0000	8.755		20071	1.14	VV	? 5.40
41		0.0000	8.982		24492	1.17	VV	? 11.10
42	HEPT EP	0.0044	9.211	-0.019	16419	1.20	VV	? 7.00
43		0.0000	9.560		28676	1.24	VV	? 14.90
44		0.0000	9.715		30728	1.26	VV	5.40
45		0.0000	9.873		55700	1.28	VV	5.05
46		0.0000	10.117		28236	1.32	VV	? 12.10
47		0.0000	10.500		32223	1.37	VV	? 14.90
48	A ENDO	0.0108	10.697	0.077	38666	1.39	VV	? 10.60
49		0.0000	10.847		62515	1.41	VV	4.70
50		0.0000	11.048		32198	1.44	VV	6.00
51		0.0000	11.151		12215	1.45	VV	?
52		0.0000	11.309		10394	1.47	VV	? 4.70
53		0.0000	11.482		13928	1.49	VV	? 7.90
54	DIELDRIN	0.0089	11.694	-0.006	27893	1.52	VV	? 3.40
55	DDE	0.0151	11.906	-0.074	50914	1.55	VV	4.65
56		0.0000	12.069		26681	1.57	VV	? 11.10
57		0.0000	12.316		96286	1.60	VV	4.25
58	ENDRIN	0.0082	12.753	0.213	21535	1.66	VV	? 8.10
59		0.0000	12.849		12907	1.67	VV	? 2.30
[illegible]	B ENDO	0.0093	13.049	0.069	27158	1.70	VV	? 10.40
		0.0000	13.423		119965	1.74	VV	? 3.65
[illegible]	DDD	0.0062	13.755	-0.035	13790	1.79	VV	? 10.30
63	END ALD	0.0075	13.919	0.079	18797	1.81	VV	? 9.10
64		0.0000	14.178		15878	1.84	VV	? 9.60
65		0.0000	14.467		93908	1.88	VV	8.70
66	ENDO S04	0.0133	14.941	0.071	29740	1.94	VV	5.75
67		0.0000	15.214		16076	1.98	VV	? 8.90
68	DDT	0.0059	15.325	-0.045	13254	1.99	VV	? 10.20
69		0.0000	15.569		112766	2.02	VV	5.05
70		0.0000	15.873		16319	2.06	VV	? 14.90
71		0.0000	16.143		5078	2.10	VV	? 5.70
72		0.0000	16.302		8760	2.12	VV	? 8.70
73		0.0000	16.522		7481	2.15	VV	? 9.50
74	ENDRIN K	0.0072	16.681	-0.069	22486	2.17	VV	? 2.70
75		0.0000	16.915		5463	2.20	VV	? 2.30
76		0.0000	17.277		9959	2.25	VV	? 10.50
77		0.0000	17.497		6055	2.27	VV	? 8.85
78		0.0000	17.731		18545	2.31	VV	5.75
79	METHOXY	0.0079	17.975	-0.165	6722	2.34	VV	? 11.10
80		0.0000	18.499		12710	2.40	VV	5.50
81		0.0000	18.839		8364	2.45	VV	12.60
82		0.0000	19.347		5655	2.52	VV	6.65
83	SURROGATE	0.1336	19.657	0.067	278074	2.56	VV	5.00
TOTALS:		0.3026		0.549	19629400			

DETECTED PKS: 90 REJECTED PKS: 7

D [illegible]OF: 1.00000 MULTIPLIER: 1.00000

NOISE: 4.9 OFFSET: -63

SAVED FILE: PB37

NOTES:

SIZE: 8PB-F

...ronmental Protection Agency, CLP Sample Management Office,
O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-107

15090311

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9-13-85

Date Analyzed: 11-22-85

Conc/Dil Factor: 1

CAS Number		~~ug/l or~~ ug/Kg (Circle One) 1 PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254 5	~~0.2~~ 0.38
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

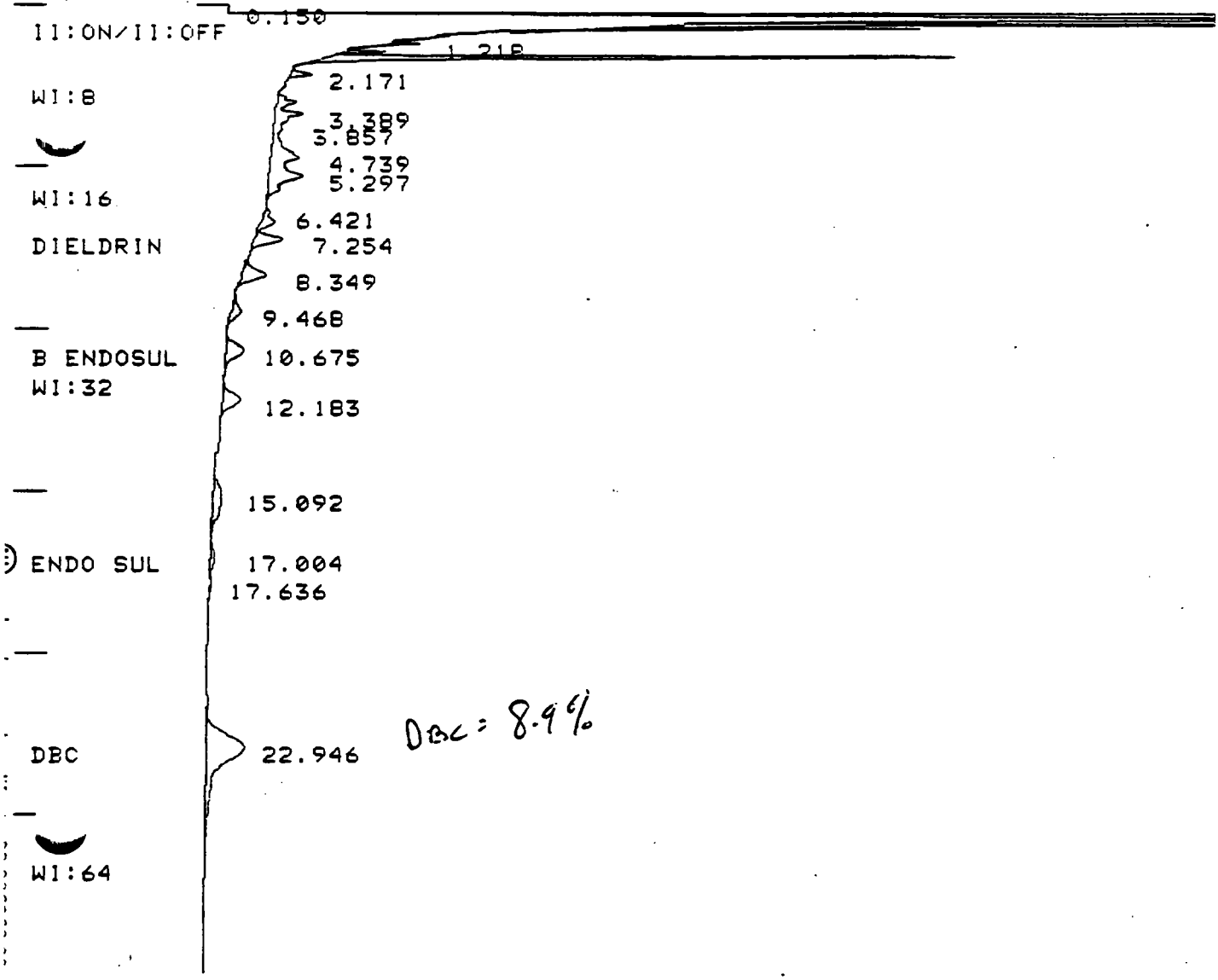
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN # 13 08-107 21:12 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090311 METHOD: 2A PF-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.325		268810	VB	2.85
2		0.0000	0.470		26096	BB	1.00
3		0.0000	0.647		54162	BV	1.85
4		0.0000	0.775		5461	VB	1.70
5		0.0000	0.978		307	BB	1.80
6		0.0000	1.218		596	BB	2.55
		0.0000	1.463		644	BV	3.25
	A-BHC	0.0071	1.637	0.017	9325	VB	4.55
9		0.0000	2.171		314	BB	? 7.65
10	D-BHC	0.0003	2.867	0.127	145	BV	? 7.00
11	ALDRIN	0.0004	3.019	0.009	292	VV	11.35
12		0.0000	3.209		422	VV	0.70
13		0.0000	3.579		210	VV	? 15.10
14		0.0000	3.857		123	VV	? 10.80
15		0.0000	4.739		413	VV	? 17.50

all.p/n 03-906362-00

WI:64

TITLE: RUN # 13 08-107 21:12 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15090311 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.325		268810	VB		2.85
2		0.0000	0.470		26096	BB		1.00
3		0.0000	0.647		54162	BV		1.85
4		0.0000	0.775		5461	VB		1.70
5		0.0000	0.978		307	BB		1.80
6		0.0000	1.218		596	BB		2.55
7		0.0000	1.463		644	BV		3.25
8	A-BHC	0.0071	1.637	0.017	9325	VB		4.55
9		0.0000	2.171		314	BB	?	7.65
10	D-BHC	0.0003	2.867	0.127	145	BV	?	7.00
11	ALDRIN	0.0004	3.019	0.009	292	VV		11.35
12		0.0000	3.309		422	VV		9.70
[illegible]		0.0000	3.579		210	VV	?	15.10
[illegible]		0.0000	3.857		123	VV	?	10.80
15		0.0000	4.739		413	VV	?	17.80
16		0.0000	5.297		501	VV	?	16.00
17	A ENDOSUL	0.0006	5.701	-0.079	174	VB	?	7.60
18		0.0000	6.713		225	VV		13.00
19	DIELDRIN	0.0017	7.254	0.144	417	VB		14.25
20	ENDRIN	0.0021	8.349	-0.281	355	BB		18.55
21		0.0000	9.468		145	BB		17.80
22	B ENDOSUL	0.0018	10.675	0.075	273	BB		24.70
23		0.0000	12.183		256	BB		26.10
24		0.0000	15.092		115	BV		54.40
25	DBC	0.0089	22.946	-0.104	564	BB		54.15
TOTALS:		0.0229		-0.092	370345			

DETECTED PKS: 32 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

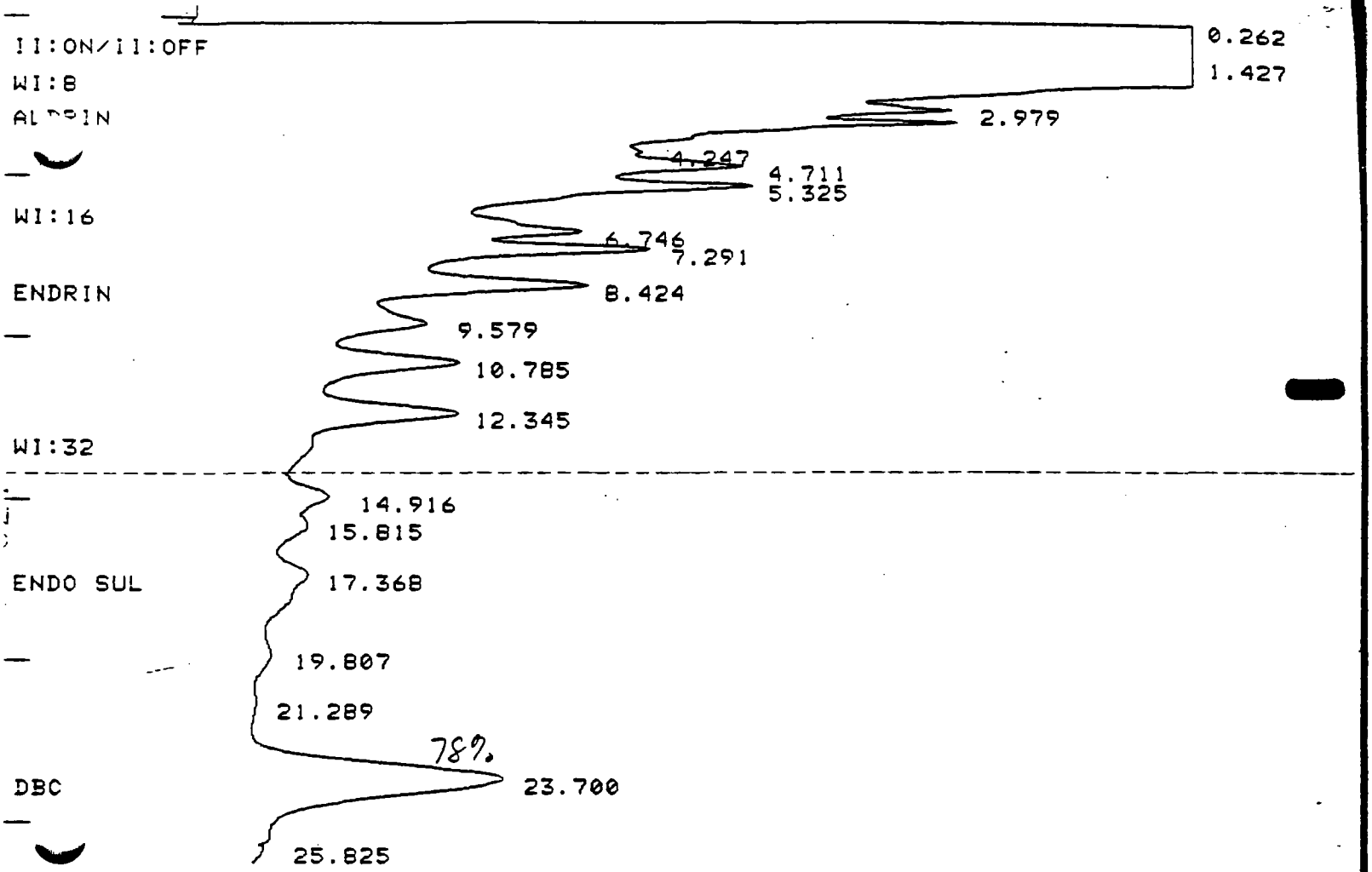
NOISE: 12.1 OFFSET: -2

SAVED FILE: P1240

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

(VA) varian /sun

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



$\frac{1.0}{4.86} = .205$

$.205 \times 1.85 = .38$

TITLE: RUN # 37 08-107 17:23 22 NOV 85

CHANNEL NO: 2 SAMPLE: 15090311 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.262		179993	BV	?	2.50
2		0.0000	0.333		212838	VB	?	6.80
3		0.0000	0.594		100878	BV	?	2.85
4		0.0000	0.720		7886	T		1.55
5		0.0000	1.165		2794	BB		2.70
6		0.0000	1.427		6075	BV	?	4.50
7	A-BHC	0.0542	1.586	0.026	58212	VB		6.75
8		0.0000	2.108		2748	BB		6.20
9	ALDRIN	0.0036	2.979	0.059	1901	BV		9.35
10		0.0000	3.362		2963	VB		8.00
11		0.0000	4.247		363	BV	?	10.10
		0.0000	4.711		2402	VV	?	16.05
		0.0000	5.325		3245	VB		14.00
14	DIELDRIN	0.0100	6.746	-0.234	1929	BV		20.55
15		0.0000	7.291	1.85	3191	VV		18.05
16	ENDRIN	0.0200	8.424	-0.066	2817	VV		22.35
17		0.0000	9.579		1025	VV		22.55
18	B ENDOSUL	0.0161	10.785	0.325	1890	VV		29.15
19		0.0000	12.345		2065	VB	?	31.95
20		0.0000	14.916		662	BV		39.70

$\frac{1.0}{4.86} = .205$

$.205 \times 1.85 = .38$

TI : RUN # 37 08-107 17:23 22 NOV 85

CHANNEL NO: 2 SAMPLE: 15090311 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.262		179993	BV	?	2.50
2		0.0000	0.333		212838	VB	?	6.80
3		0.0000	0.594		100878	BV	?	2.85
4		0.0000	0.720		7886	T		1.55
5		0.0000	1.165		2794	BB		2.70
6		0.0000	1.427		6075	BV	?	4.50
7	A-BHC	0.0542	1.586	0.026	58212	VB		6.75
8		0.0000	2.108		2748	BB		6.20
9	ALDRIN	0.0036	2.979	0.059	1901	BV		9.35
10		0.0000	3.362		2963	VB		8.00
11		0.0000	4.247		363	BV	?	10.10
12		0.0000	4.711		2402	VV	?	16.05
13		0.0000	5.325		3245	VB		14.00
14	DIELDRIN	0.0100	6.746	-0.234	1929	BV		20.55
15		0.0000	7.291	1.85	3191	VV		18.05
16	ENDRIN	0.0200	8.424	-0.066	2817	VV		22.35
17		0.0000	9.579		1025	VV		22.55
18	B ENDOSUL	0.0161	10.785	0.325	1890	VV		29.15
19		0.0000	12.345		2065	VB	?	31.95
20		0.0000	14.916		662	BV		39.70
21		0.0000	15.815		413	VV	?	42.80
22	ENDO SUL	0.0103	17.368	0.168	533	VV		55.45
23		0.0000	19.807		177	VB		34.30
24	DBC	0.0777	23.700	0.220	3687	BV	?	65.40
2		0.0000	25.825		146	VV	?	27.45
OTALS:		0.1919		0.498	600833			

ETECTED PKS: 26 REJECTED PKS: 1

.084
3.14

IVISOR: 1.00000 MULTIPLIER: 1.00000

OISE: 2.4 OFFSET: -81

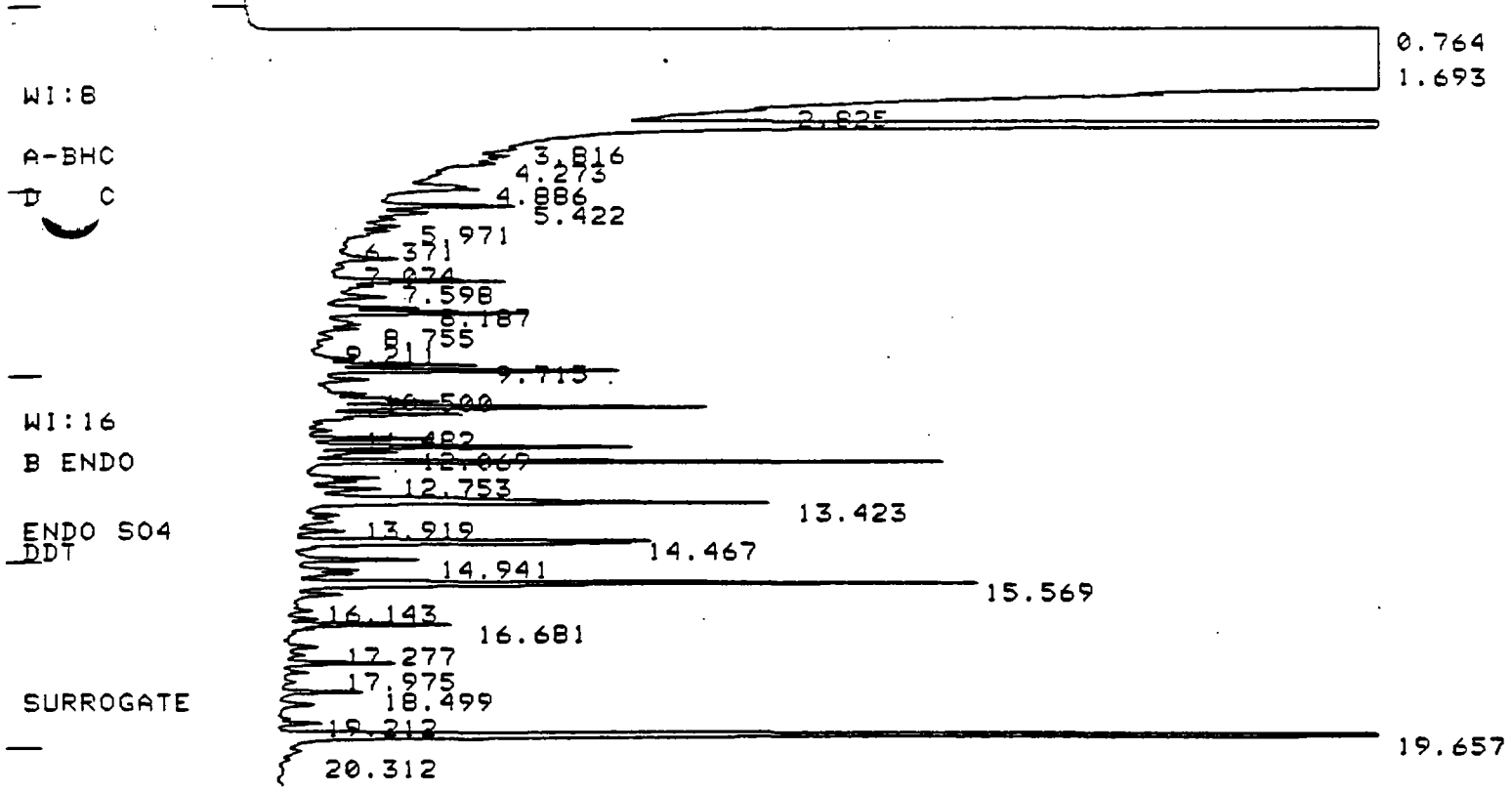
AVED FILE: P1481

OTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

ITLE: RUN# 37 08-107 17:23 22 NOV 85

HA L NO: 2 SAMPLE: 15090311 METHOD: 2A PP-4

EAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.262		179993	0.09	BV	?	2.50
2		0.0000	0.333		212838	0.11	VB	?	6.80
3		0.0000	0.594		100878	0.20	BV	?	2.85
4		0.0000	0.720		7886	0.24	T		1.55
5		0.0000	1.165		2794	0.39	BB		2.70



TITLE: RUN#5 08-107 6:46 22 NOV 85

CHANNEL NO: 2 SAMPLE: 15090311 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.764		12725100	0.10	BV	?	39.10
2		0.0000	1.693		2258730	0.22	VV	?	9.00
3		0.0000	2.201		460683	0.29	VV	?	5.30
4		0.0000	2.423		415061	0.31	VV	?	2.40
5		0.0000	2.825		209412	0.37	VV	?	2.60
6		0.0000	3.197		1036080	0.42	VV	?	5.95
7	A-BHC	0.0013	3.816	0.226	6783	0.50	VV	?	
8		0.0000	3.875		59834	0.50	VV	?	3.80
9		0.0000	4.068		45997	0.53	VV	?	7.80
10		0.0000	4.151		35662	0.54	VV	?	2.55
11	B-BHC	0.0421	4.273	0.033	66759	0.55	VV	?	5.20
12	G-BHC	0.0032	4.421	0.021	15238	0.57	VV	?	
13		0.0000	4.505		14836	0.59	VV	?	1.6[illegible]
14		0.0000	4.563		27177	0.59	VV	?	1.60
15		0.0000	4.628		42175	0.60	VV	?	
16		0.0000	4.886		34298	0.63	VV	?	10.00
17		0.0000	4.956		66676	0.64	VV	?	3.60
18	D-BHC	0.0059	5.177	0.107	22306	0.67	VV	?	
19		0.0000	5.422		62898	0.70	VV	?	13.30
20		0.0000	5.605		44516	0.73	VV	?	7.40
		0.0000	5.782		26266	0.75	VV	?	5.15
		0.0000	5.971		33383	0.78	VV	?	10.50
[illegible]		0.0000	6.103		24045	0.79	VV	?	6.05
24		0.0000	6.214		20889	0.81	VV	?	2.10
25		0.0000	6.322		6523	0.82	VV	?	
26		0.0000	6.371		9579	0.83	VV	?	
27	HEPT	0.0086	6.526	-0.004	25574	0.85	VV	?	6.30
28		0.0000	6.853		51937	0.89	VV	?	14.80
29		0.0000	7.074		23483	0.92	VV	?	7.05
[illegible]		0.0000	7.255		[illegible]	0.94	[illegible]	?	3.80

Run #5
08-107
1509031

22		0.0000	5.971		[illegible]	0.78	VV	?	10.50
23		0.0000	6.103		24045	0.79	VV	?	6.05
24		0.0000	6.214		20889	0.81	VV	?	2.10
25		0.0000	6.322		6523	0.82	VV	?	
26		0.0000	6.371		9579	0.83	VV	?	
27	HEPT	0.0086	6.526	-0.004	25574	0.85	VV	?	6.30
28		0.0000	6.853		51937	0.89	VV	?	14.80
29		0.0000	7.074		23483	0.92	VV	?	7.05
		0.0000	7.235		6842	0.94	VV	?	3.80
		0.0000	7.285		7404	0.95	VV	?	1.80
32		0.0000	7.453		47722	0.97	VV	?	4.15
33		0.0000	7.598		18469	0.99	VV	?	5.00
34	ALDRIN	0.0032	7.693	0.003	13308	1.00	VV	?	1.60
35		0.0000	7.896		41572	1.03	VV	?	14.40
36		0.0000	8.187		27874	1.06	VV	?	8.80
37		0.0000	8.321		47597	1.08	VV	?	4.05
38		0.0000	8.559		17432	1.11	VV	?	11.50
39		0.0000	8.635		13527	1.12	VV	?	3.90
40		0.0000	8.755		20071	1.14	VV	?	5.40
41		0.0000	8.982		24492	1.17	VV	?	11.10
42	HEPT EP	0.0044	9.211	-0.019	16419	1.20	VV	?	7.00
43		0.0000	9.560		28676	1.24	VV	?	14.90
44		0.0000	9.715		30728	1.26	VV		5.40
45		0.0000	9.873		55700	1.28	VV		5.05
46		0.0000	10.117		28236	1.32	VV	?	12.10
47		0.0000	10.500		32223	1.37	VV	?	14.90
48	A ENDO	0.0108	10.697	0.077	38666	1.39	VV	?	10.60
49		0.0000	10.847		62515	1.41	VV		4.70
50		0.0000	11.048		32198	1.44	VV		6.00
51		0.0000	11.151		12215	1.45	VV	?	
52		0.0000	11.309		10394	1.47	VV	?	4.70
53		0.0000	11.482		13928	1.49	VV	?	7.90
54	DIELDRIN	0.0089	11.694	-0.006	27893	1.52	VV	?	3.40
55	DDE	0.0151	11.906	-0.074	50914	1.55	VV		4.65
56		0.0000	12.069		26681	1.57	VV	?	11.10
57		0.0000	12.316		96286	1.60	VV		4.25
58	ENDRIN	0.0082	12.753	0.213	21535	1.66	VV	?	8.10
59		0.0000	12.849		12907	1.67	VV	?	2.30
	B ENDO	0.0093	13.049	0.069	27158	1.70	VV	?	10.40
		0.0000	13.423		119965	1.74	VV	?	3.65
62	DDD	0.0062	13.755	-0.035	13790	1.79	VV	?	10.30
63	END ALD	0.0075	13.919	0.079	18797	1.81	VV	?	9.10
64		0.0000	14.178		15878	1.84	VV	?	9.60
65		0.0000	14.467		93908	1.88	VV		8.70
66	ENDO SO4	0.0133	14.941	0.071	29740	1.94	VV		5.75
67		0.0000	15.214		16076	1.98	VV	?	8.90
68	DDT	0.0059	15.325	-0.045	13254	1.99	VV	?	10.20
69		0.0000	15.569		112766	2.02	VV		5.05
70		0.0000	15.873		16319	2.06	VV	?	14.90
71		0.0000	16.143		5078	2.10	VV	?	5.70
72		0.0000	16.302		8760	2.12	VV	?	8.70
73		0.0000	16.522		7481	2.15	VV	?	9.50
74	ENDRIN K	0.0072	16.681	-0.069	22486	2.17	VV	?	2.70
75		0.0000	16.915		5463	2.20	VV	?	2.30
76		0.0000	17.277		9959	2.25	VV	?	10.50
77		0.0000	17.497		6055	2.27	VV	?	8.85
78		0.0000	17.731		18545	2.31	VV		5.75
79	METHOXY	0.0079	17.975	-0.165	6722	2.34	VV	?	11.10
80		0.0000	18.499		12710	2.40	VV		5.50
81		0.0000	18.839		8364	2.45	VV		12.60
82		0.0000	19.347		5655	2.52	VV		6.65
83	SURROGATE	0.1336	19.657	0.067	278074	2.56	VV		5.00
TOTALS:		0.3026		0.549	19629400				

DETECTED PKS: 90 REJECTED PKS: 7

D 'SOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 4.9 OFFSET: -63

5

SAVED FILE: P837

NOTES:

GC=: SPB-5

wironmental Protection Agency. CLP Sample Management Office.
~~C. Box~~ 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-116

1509103E

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/17/85

Date Analyzed: 11/10/85

Dil Factor: 1

CAS Number	DL x 1	ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

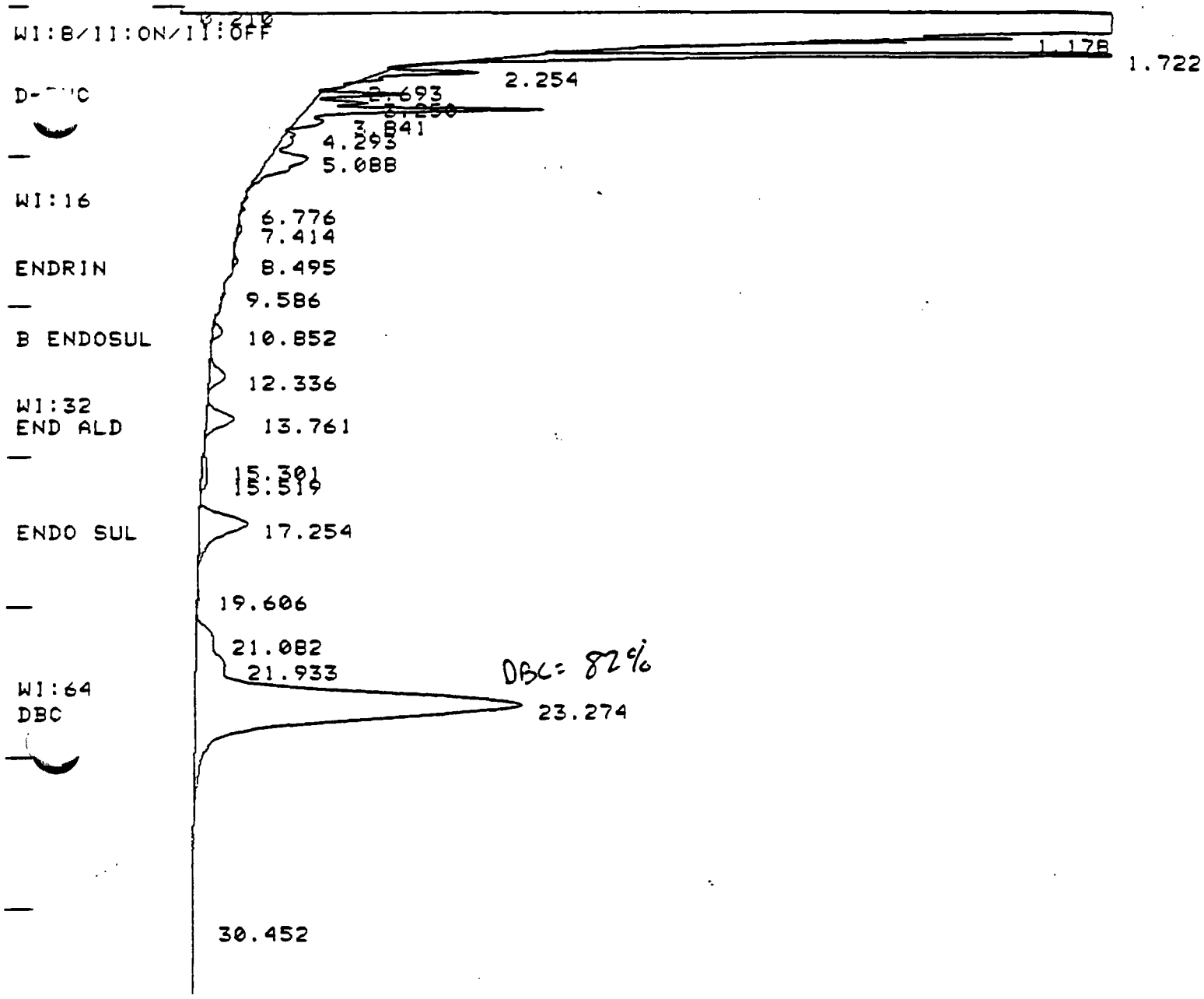
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

HART SPEED 0.5 CM/MIN
TTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN = 17 08-116 23:34 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15091038 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
		0.0000	0.291		124805	VV	?	2.10
		0.0000	0.367		134429	VB	?	6.40
		0.0000	0.482		57356	BB	?	1.05
4		0.0000	0.685		125539	BV		2.85
5		0.0000	0.824		23293	VB		2.05
6		0.0000	1.178		2122	BV		2.30
7		0.0000	1.308		2356	VB		3.35
8		0.0000	1.722		[illegible]	BB		4.45
9	B-B-1	[illegible]	2.254	-0.102	[illegible]	BV		[illegible]

30.452

TITLE: RUN # 17 08-116 23:34 10 NOV 85

CHANNEL NO: 2 SAMPLE: 1509103B METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		124805	VV	?	2.10
2		0.0000	0.367		134429	VB	?	6.40
3		0.0000	0.482		57356	BB	?	1.05
4		0.0000	0.685		125539	BV		2.85
5		0.0000	0.824		23293	VB		2.05
6		0.0000	1.178		2122	BV		2.30
7		0.0000	1.308		2396	VB		3.35
8		0.0000	1.722		31933	BB		4.45
9	B-BHC	0.0048	2.254	-0.106	1634	BV		7.85
10		0.0000	2.477		430	VB		2.65
11	D-BHC	0.0002	2.693	-0.047	125	BV		3.05
12	ALDRIN	0.0021	2.961	-0.049	1430	VV		7.30
13		0.0000	3.250		926	VV		8.40
14		0.0000	3.487		3822	VV		8.25
15		0.0000	3.841		483	VV		9.95
16		0.0000	4.293		203	VV		9.35
17		0.0000	4.487		212	VV	?	16.85
18		0.0000	5.088		626	VV	?	22.45
19		0.0000	5.444		430	VB	?	12.80
20	B ENDOSUL	0.0009	10.852	0.252	143	BB		20.50
21		0.0000	12.336		257	BB	?	29.75
22	END ALD	0.0066	13.761	-0.349	434	BB		30.95
23	ENDO SUL	0.0138	17.254	-0.026	765	VB		40.60
24		0.0000	21.082		271	VV	?	52.60
25		0.0000	21.933		461	VV	?	59.30
26	DBC	0.0821	23.274	0.224	5176	VB		56.80
TOTALS:		0.1105		-0.101	519701			

DETECTED PKS: 36 REJECTED PKS: 10

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -81

RACK: 1 VIAL: 3 INJ: 1

SAVED FILE: P1244

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
[illegible] =2

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-116

1509/038

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/17/85

Date Analyzed: 11/10/85

Dil Factor: 1

CAS Number	OL x 1	ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	0.1
11104-28-2	Aroclor-1221	0.1
11141-16-5	Aroclor-1232	0.1
53469-21-9	Aroclor-1242	0.1
12672-29-6	Aroclor-1248	0.1
11097-69-1	Aroclor-1254	0.2
11096-82-5	Aroclor-1260	0.2

V_i = Volume of extract injected (ul)

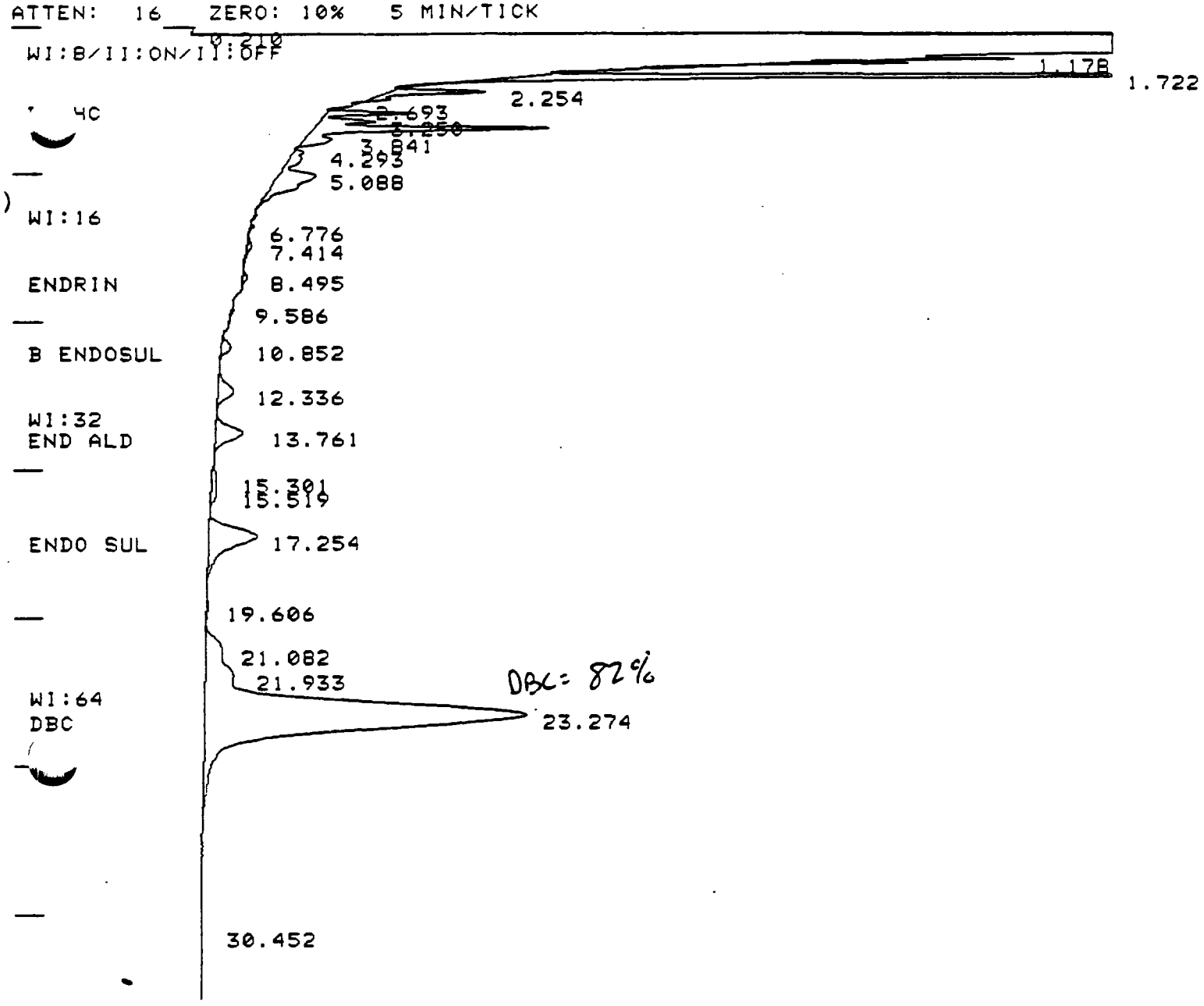
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



TITLE: RUN # 17 08-116 23:34 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15091038 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		124805	VV	?	2.10
		0.0000	0.367		134429	VB	?	6.40
		0.0000	0.482		57356	BB	?	1.05
4		0.0000	0.685		125539	BV		2.85
5		0.0000	0.824		23293	VB		2.05
6		0.0000	1.178		2122	BV		2.30
7		0.0000	1.308		2396	VB		3.35
8		0.0000	1.722		31933	BB		4.45
9	B-BHC	0.0048	2.254	-0.10=	1634	BV		7.85
10		0.0000	2.477		430	VB		2.65

30.452

TITLE: RUN # 17 08-116 23:34 10 NOV 85

CHANNEL NO: 2 SAMPLE: 15091038 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.291		124805	VV	?	2.10
2		0.0000	0.367		134429	VB	?	6.40
3		0.0000	0.482		57356	BB	?	1.05
4		0.0000	0.685		125539	BV		2.85
5		0.0000	0.824		23293	VB		2.05
6		0.0000	1.178		2122	BV		2.30
7		0.0000	1.308		2396	VB		3.35
8		0.0000	1.722		31933	BB		4.45
9	B-BHC	0.0048	2.254	-0.106	1634	BV		7.85
10		0.0000	2.477		430	VB		2.65
11	D-BHC	0.0002	2.693	-0.047	125	BV		3.05
12	ALDRIN	0.0021	2.961	-0.049	1430	VV		7.30
13		0.0000	3.250		926	VV		8.40
14		0.0000	3.487		3822	VV		8.25
5		0.0000	3.841		483	VV		9.95
6		0.0000	4.293		203	VV		9.35
17		0.0000	4.487		212	VV	?	16.85
18		0.0000	5.088		626	VV	?	22.45
19		0.0000	5.444		430	VB	?	12.80
20	B ENDOSUL	0.0009	10.852	0.252	143	BB		20.50
21		0.0000	12.336		257	BB	?	29.75
22	END ALD	0.0066	13.761	-0.349	434	BB		30.95
23	ENDO SUL	0.0138	17.254	-0.026	765	VB		40.60
24		0.0000	21.082		271	VV	?	52.60
25		0.0000	21.933		461	VV	?	59.30
26	DBC	0.0821	23.274	0.224	5176	VB		56.80
TOTALS:		0.1105		-0.101	519701			

DETECTED PKS: 36 REJECTED PKS: 10

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -81

RACK: 1 VIAL: 3 INJ: 1

SAVED FILE: P1244

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale,calif.p/n 03-906362-00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number	
08-123	15101863

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/30/85

Date Analyzed: 11/11/85

Conc/Dil Factor: 5

CAS Number		ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.5
11104-28-2	Aroclor-1221	< 0.5
11141-16-5	Aroclor-1232	< 0.5
53469-21-9	Aroclor-1242	< 0.5
12672-29-6	Aroclor-1248	< 0.5
11097-69-1	Aroclor-1254	< 1.0
11096-82-5	Aroclor-1260	< 1.0

V_i = Volume of extract injected (ul)

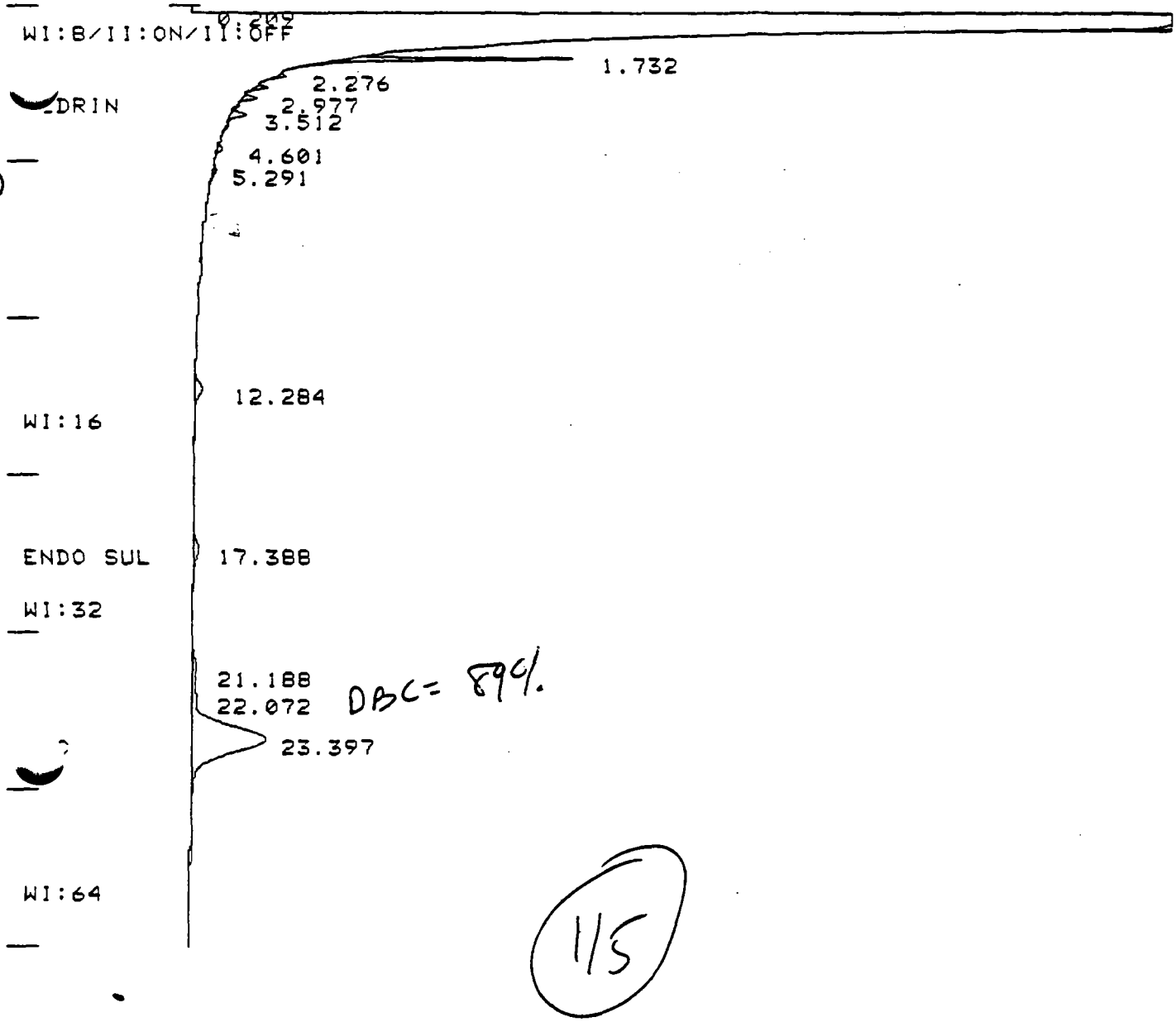
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/5

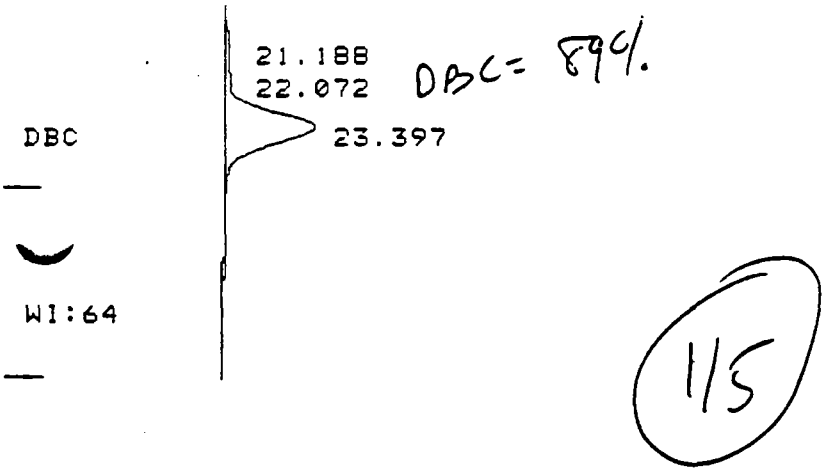
68-123

TITLE: RUN # 23 3:02 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101863 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		155484	VV	?	2.00
2		0.0000	0.352		147416	VB	?	6.90
3		0.0000	0.688		26959	BV		2.60
4		0.0000	0.828		4413	VB		2.00
		0.0000	1.732		3445	BB		4.10
	B-BHC	0.0005	2.276	-0.084	177	BB		3.85
7	D-BHC	0.0003	2.632	-0.108	201	BV		4.85
8	ALDRIN	0.0004	2.977	-0.033	249	VV		6.40
9		0.0000	3.512		248	VV		8.70
10		0.0000	12.284		125	BB	?	29.25
11	DBC	0.0178	23.397	0.347	1124	VB		56.55

TOTALS: 0.0190 0.133 339841



68-123

TITLE: RUN # 23 3:02 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101863 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		155484	VV	?	2.00
2		0.0000	0.352		147416	VB	?	6.90
3		0.0000	0.688		26959	BV		2.60
4		0.0000	0.828		4413	VB		2.00
5		0.0000	1.732		3445	BB		4.10
6	B-BHC	0.0005	2.276	-0.084	177	BB		3.85
7	D-BHC	0.0003	2.632	-0.108	201	BV		4.85
8	ALDRIN	0.0004	2.977	-0.033	249	VV		6.40
9		0.0000	3.512		248	VV		8.70
10		0.0000	12.284		125	BB	?	29.25
11	DBC	0.0178	23.397	0.347	1124	VB		56.55
TOTALS:		0.0190		0.122	339841			

DETECTED PKS: 19 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -125

RACK: 1 VIAL: 9 INJ: 1

SAVED FILE: P1250

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

TITLE: RUN# 23 08-123 3:02 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101863 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE	W1/2 (SEC)

nvironmental Protection Agency, CLP Sample Management Office,
. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-132

1509/039

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/17/85

Date Analyzed: 11/11/85

Dil Factor: 1

CAS Number	DL X 1	ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	0.1
11104-28-2	Aroclor-1221	0.1
11141-16-5	Aroclor-1232	0.1
53469-21-9	Aroclor-1242 ~~0.63~~	~~0.1~~ 0.63
12672-29-6	Aroclor-1248	0.1
11097-69-1	Aroclor-1254	0.2
11096-82-5	Aroclor-1260	0.2

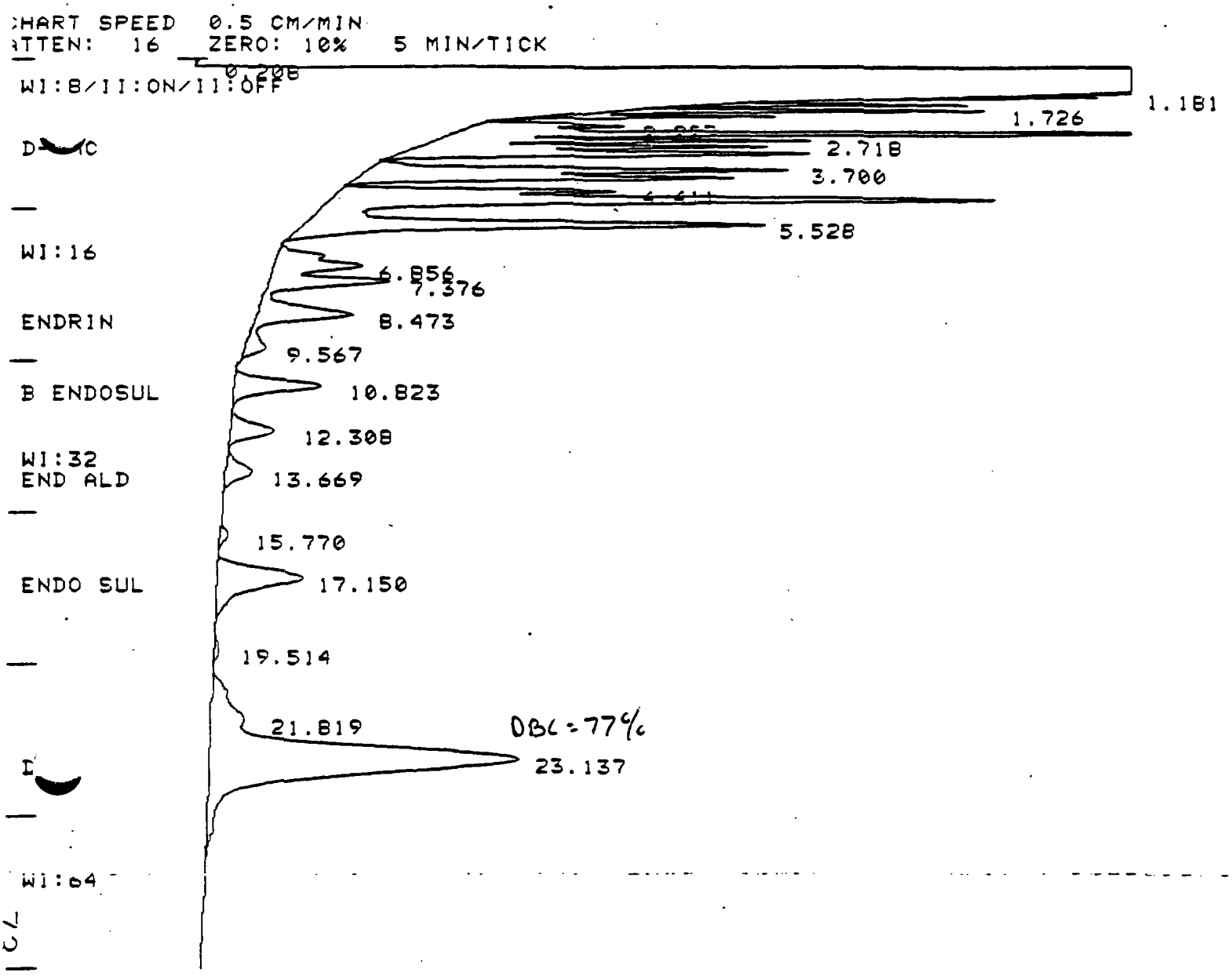
V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

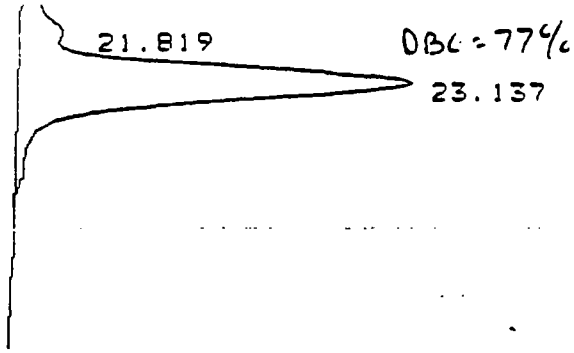


TITLE: RUN # 18 08-132 0:11 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091039 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.292		125256	VV	?	2.10
2		0.0000	0.368		122253	VB	?	6.60
		0.0000	0.467		84390	BB		2.40
		0.0000	0.672		130578	BV		4.20
		0.0000	0.824		15329	VV		2.05
5		0.0000	0.880		9234	VB	?	1.60
6		0.0000	1.181		1908	BV		2.10
7		0.0000	1.302		3051	VV		2.85
8		0.0000	1.534		4228	VV		4.40
9		0.0000	[illegible]		5800	VV		5.15
10		0.0000	[illegible]		[illegible]	VV		3.70
11		0.0000	[illegible]		[illegible]	[illegible]	?	3.40

DBC



Factor = 0.069
peaks at 1.20, 2.35, + 5.06 min. missing in sample.

12-12 = 9.08 Ht. x 0.069 µg/ml Ht. x 1ml x 1 = 0.63µg

TITLE: RUN # 18 08-132 0:11 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091039 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.292		125256	VV	?	2.10
2		0.0000	0.368		122253	VB	?	6.60
3		0.0000	0.487		84380	BB		2.40
4		0.0000	0.672		130578	BV		4.20
5		0.0000	0.824		15329	VV		2.05
6		0.0000	0.880		9234	VB	?	1.60
7		0.0000	1.181		1908	BV		2.10
8		0.0000	1.302		3051	VV		2.85
		0.0000	1.534		4228	VV		4.40
10		0.0000	1.726	H= 9.08	5806	VV		5.15
11		0.0000	1.912		3558	VV		3.70
12		0.0000	2.227		2342	VV	?	9.40
13		0.0000	2.487		19476	VV		5.70
14	D-BHC	0.0102	2.718	-0.022	5918	VV		6.10
15	ALDRIN	0.0082	2.917	-0.093	5500	VV		6.40
16		0.0000	3.146		6427	VV		9.40
17		0.0000	3.700		6620	VV		10.95
18		0.0000	3.961		5917	VV	?	11.90
19		0.0000	4.411		4347	VV	?	10.10
20		0.0000	4.697		10423	VV		13.65
21	A ENDOSUL	0.0238	5.528	-0.252	7259	VB		13.90
22		0.0000	6.528		731	BV	?	16.80
23	DIELDRIN	0.0056	6.856	-0.254	1388	VV		21.75
24		0.0000	7.376		1927	VV		17.40
25	ENDRIN	0.0087	8.473	-0.157	1499	VV	?	24.50
26		0.0000	9.567		348	VB		18.60
27	B ENDOSUL	0.0089	10.823	0.223	1358	BV		25.05
28		0.0000	12.308		692	VV		28.40
29	END ALD	0.0064	13.669	-0.441	419	VB		31.05
30		0.0000	15.770		120	BV		26.65
31	ENDO SUL	0.0243	17.150	-0.130	1341	VV		40.30
32		0.0000	21.819		517	VV	?	57.60
33	DBC	0.0769	23.137	0.087	4846	VB		56.40
TOTALS:		0.1730		-1.039	594996			

D[illegible]CTED PKS: 35 REJECTED PKS: 2

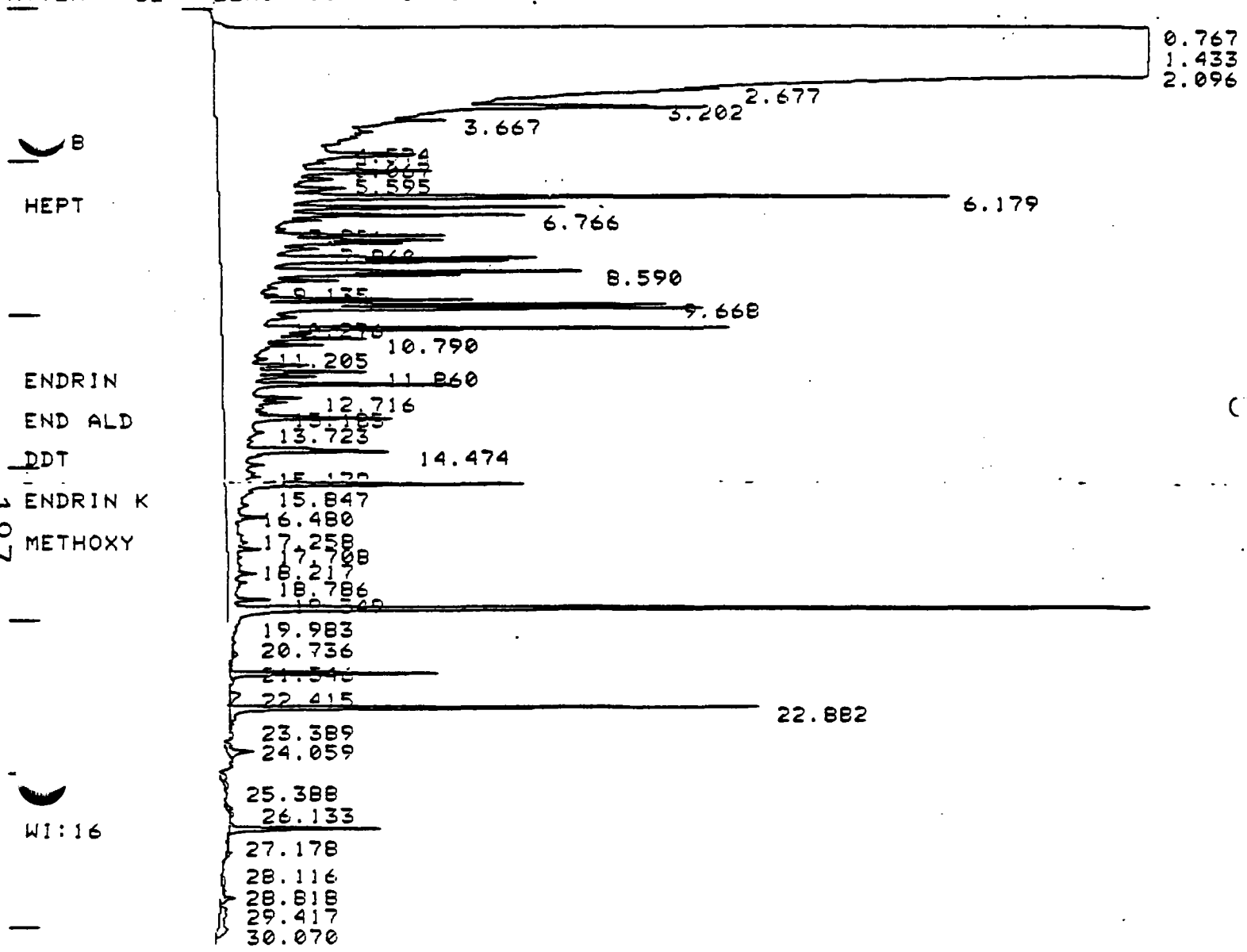
DI[illegible]ISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: [illegible].3 OFFSET: -52

PACK: [illegible] VIAL: 4[illegible] INJ: 1

S[illegible]ED FILE: F:245

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



08-132

TITLE: RUN# 5 16:54 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15091039 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE	W1/2 (SEC)
1		0.0000	0.767		10683600	0.10	BV ?	41.30
2		0.0000	1.433		2193420	0.18	VV ?	4.80
3		0.0000	1.710		1584750	0.22	VV ?	4.15
4		0.0000	2.096		270040	0.27	VV ?	3.90
5		0.0000	2.215		630951	0.28	VV ?	3.55
6		0.0000	2.677		7648[illegible]	0.34	VV ?	3.30
7		0.0000	2.738		255745	0.35	VV ?	0.40
8		0.0000	3.202		555[illegible]	0.41	VV ?	5.90
9		0.0000	3.266		135[illegible]	0.42	VV ?	9.25
10		0.0000	3.511		[illegible]	0.45	VV ?	1.30
11	[illegible]	0.0000	3.667	-0.033	[illegible]	0.47	VV ?	6.00
12		0.0000	4.044		[illegible]	0.51	VV ?	7.30
13		0.0000	[illegible]		[illegible]	0.53	VV ?	3.55

08-132

TITLE: RUN# 5 16:54 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15091039 METHOD: 6B P

PEAK	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE	W1/2 (SEC)
1		0.0000	0.767		10683600	0.10	BV ?	41.30
2		0.0000	1.433		2193420	0.18	VV ?	4.80
3		0.0000	1.710		1584750	0.22	VV ?	4.15
4		0.0000	2.096		270040	0.27	VV ?	3.90
5		0.0000	2.215		630951	0.28	VV ?	3.55
6		0.0000	2.677		76486	0.34	VV ?	3.30
7		0.0000	2.738		255745	0.35	VV ?	0.40
8		0.0000	3.202		55569	0.41	VV ?	5.90
9		0.0000	3.266		135606	0.42	VV ?	9.25
10		0.0000	3.511		43340	0.45	VV ?	1.30
11	A-BHC	0.0223	3.667	-0.033	97094	0.47	VV ?	6.00
12		0.0000	4.044		53626	0.51	VV ?	7.30
13		0.0000	4.153		28179	0.53	VV ?	3.55
14	B-BHC	0.0272	4.258	-0.092	36576	0.54	VV ?	3.80
15		0.0000	4.431		33292	0.56	VV ?	4.30
16	G-BHC	0.0051	4.574	0.064	19620	0.58	VV ?	4.90
17		0.0000	4.771		45678	0.61	VV ?	10.90
18		0.0000	4.816		54020	0.61	VV ?	1.20
19		0.0000	5.067		28006	0.64	VV ?	4.40
20	D-BHC	0.0034	5.203	0.003	11270	0.66	VV ?	2.80
21		0.0000	5.321		33815	0.68	VV ?	5.30
22		0.0000	5.379		34042	0.68	VV ?	13.55
23		0.0000	5.595		33673	0.71	VV ?	8.20
24		0.0000	5.696		16567	0.73	VV ?	
25		0.0000	5.889		22906	0.75	VV ?	7.50
26		0.0000	5.959		17788	0.76	VV ?	2.30
27		0.0000	6.179		165296	0.79	VV	5.20
28		0.0000	6.511		66501	0.83	VV	4.70
29	HEPT	0.0258	6.766	0.106	59168	0.86	VV	4.40
30		0.0000	6.935		37871	0.88	VV ?	5.80
31		0.0000	7.221		16091	0.92	VV ?	7.55
32		0.0000	7.406		40969	0.94	VV	5.00
33		0.0000	7.558		35242	0.96	VV ?	5.50
34		0.0000	7.662		38239	0.98	VV ?	7.50
35	ALDRIN	0.0104	7.860	0.030	35944	1.00	VV ?	7.20
36		0.0000	8.145		49499	1.04	VV ?	3.15
37		0.0000	8.256		62467	1.05	VV ?	5.85
38		0.0000	8.590		67267	1.09	VV	5.35
39		0.0000	8.697		40372	1.11	VV ?	5.35
40		0.0000	8.892		31491	1.13	VV ?	8.75
41		0.0000	9.135		18229	1.16	VV ?	5.80
42	HEPT EP	0.0052	9.359	-0.031	13456	1.19	VV ?	7.10
43		0.0000	9.507		39791	1.21	VV ?	2.50
44		0.0000	9.668		64760	1.23	VV	4.30
45		0.0000	9.797		91063	1.25	VV	4.80
46		0.0000	10.095		28068	1.28	VV ?	9.90
47		0.0000	10.276		6025	1.31	VV ?	1.45
48		0.0000	10.456		89088	1.33	VV	4.25
49		0.0000	10.655		16008	1.36	VV ?	5.10
50	A ENDO	0.0114	10.790	0.020	30267	1.37	VV ?	4.05
51		0.0000	10.993		21075	1.40	VV ?	7.80
52		0.0000	11.110		10360	1.41	VV ?	2.80
53		0.0000	11.205		8287	1.43	VV ?	
54		0.0000	11.435		15296	1.46	VV ?	7.20
55		0.0000	11.648		19925	1.48	VV	8.60
56	DIELDRIN	0.0110	11.860	0.010	28612	1.51	VV	5.45
57	DDE	0.0082	12.024	-0.106	22088	1.53	VV	7.10
58		0.0000	12.271		52506	1.56	VV	4.85
59	ENDRIN	0.0097	12.716	0.016	20397	1.62	VV ?	9.50
60		0.0000	12.864		14410	1.64	VV ?	6.90
61		0.0000	13.030		10784	1.66	VV ?	5.90
62	B ENDO	0.0042	13.183	0.043	5700	1.68	VV ?	6.60
63		0.0000	13.380		44015	1.70	VV	6.10
64		0.0000	13.723		5763	1.75	VV ?	6.00
65	DDT	0.0054	13.824	-0.076	17848	1.76	VV ?	6.20
66	EMI -LI	0.0052	14.134	0.132	10359	1.80	VV ?	6.30
67		0.0000	14.474		4257	1.84	VV	5.00

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08-132

Run#5
1509/039

49		0.0000	10.655		16008	1.36	VV	?	5.10
50	A ENDO	0.0114	10.790	0.020	30267	1.37	VV	?	4.05
51		0.0000	10.993		21075	1.40	VV	?	7.80
52		0.0000	11.110		10360	1.41	VV	?	2.80
53		0.0000	11.205		8287	1.43	VV	?	
54		0.0000	11.435		15296	1.46	VV	?	7.20
55		0.0000	11.648		19925	1.48	VV		8.60
56	DIELDRIN	0.0110	11.860	0.010	28612	1.51	VV		5.45
57	DDE	0.0082	12.024	-0.106	22088	1.53	VV		7.10
58		0.0000	12.271		52506	1.56	VV		4.85
59	ENDRIN	0.0097	12.716	0.016	20397	1.62	VV	?	9.50
60		0.0000	12.864		14410	1.64	VV	?	6.90
61		0.0000	13.030		10784	1.66	VV	?	5.90
62	B ENDO	0.0042	13.183	0.043	9700	1.68	VV	?	6.80
63		0.0000	13.380		44015	1.70	VV		6.10
64		0.0000	13.723		9763	1.75	VV	?	6.00
65	DDD	0.0094	13.824	-0.076	17848	1.76	VV	?	6.20
66	END ALD	0.0052	14.134	0.124	10059	1.80	VV	?	6.30
67		0.0000	14.474		42678	1.84	VV		9.00
68		0.0000	14.609		9902	1.86	VV	?	2.70
69	ENDO SO4	0.0073	14.910	-0.130	15090	1.90	VV	?	14.10
70		0.0000	15.179		7861	1.93	VV	?	9.50
71		0.0000	15.302		7309	1.95	VV	?	5.15
72	DDT	0.0394	15.580	0.090	67998	1.98	VV		6.00
73		0.0000	15.847		11962	2.02	VV	?	5.70
74		0.0000	16.281		11160	2.07	VV	?	9.50
75		0.0000	16.480		2659	2.10	VV	?	3.30
76		0.0000	16.666		9415	2.12	VV	?	8.30
77		0.0000	16.752		2222	2.13	VV	?	
78	ENDRIN K	0.0015	16.916	0.026	3836	2.15	VV	?	6.00
79		0.0000	17.258		6154	2.20	VV	?	6.30
80		0.0000	17.490		7648	2.22	VV	?	6.85
81		0.0000	17.708		8164	2.25	VV	?	14.05
82		0.0000	17.958		4532	2.29	VV	?	5.40
83	METHOXY	0.0073	18.217	-0.063	5002	2.32	VV	?	6.90
84		0.0000	18.487		9819	2.35	VV	?	8.50
85		0.0000	18.786		4660	2.39	VV	?	9.60
86		0.0000	18.887		4734	2.40	VV	?	2.50
87		0.0000	19.349		9952	2.46	VV	?	4.10
88		0.0000	19.504		1282	2.48	VV	?	4.60
89	SURROGATE	0.0929	19.656	-0.094	210069	2.50	VV		4.70
90		0.0000	21.130		2428	2.69	T	?	10.10
91		0.0000	21.755		32370	2.77	VB	?	2.95
92		0.0000	22.415		4185	2.85	BV		10.30
93		0.0000	22.882		81049	2.91	VV		4.30
94		0.0000	24.059		1184	3.06	BV	?	7.60
95		0.0000	24.280		6557	3.09	VB		7.05
96		0.0000	25.388		3185	3.23	BB	?	5.10
97		0.0000	26.133		1133	3.33	BB	?	13.70
98		0.0000	26.812		29125	3.41	BV	?	2.85
99		0.0000	27.265		1193	3.47	T	?	20.90
100		0.0000	27.565		2396	3.51	T		6.40
101		0.0000	28.818		2603	3.67	T	?	27.10
102		0.0000	29.055		4935	3.70	VV	?	4.05
103		0.0000	29.417		2635	3.74	VV	?	8.20
104		0.0000	29.603		2950	3.77	VV	?	6.10
105		0.0000	30.070		7377	3.83	VB	?	15.00
TOTALS:		0.3069		-0.093	18603400				

DETECTED PKS: 113 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 25.5 OFFSET: -77

D FILE: P783

NOTES:

GC=6. SPE-5
2 UL INJECTED
0.32MM [illegible]
[illegible] --- [illegible]

varian /sunnyvale call p/n 03-906162-00

Environmental Protection Agency, CLP Sample Management Office,
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-132

1509/039

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/17/85

Date Analyzed: 11/11/85

Dil Factor: 1

CAS Number	DL X 1	ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242 ~~0.63~~	~~0.1~~ 0.63
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

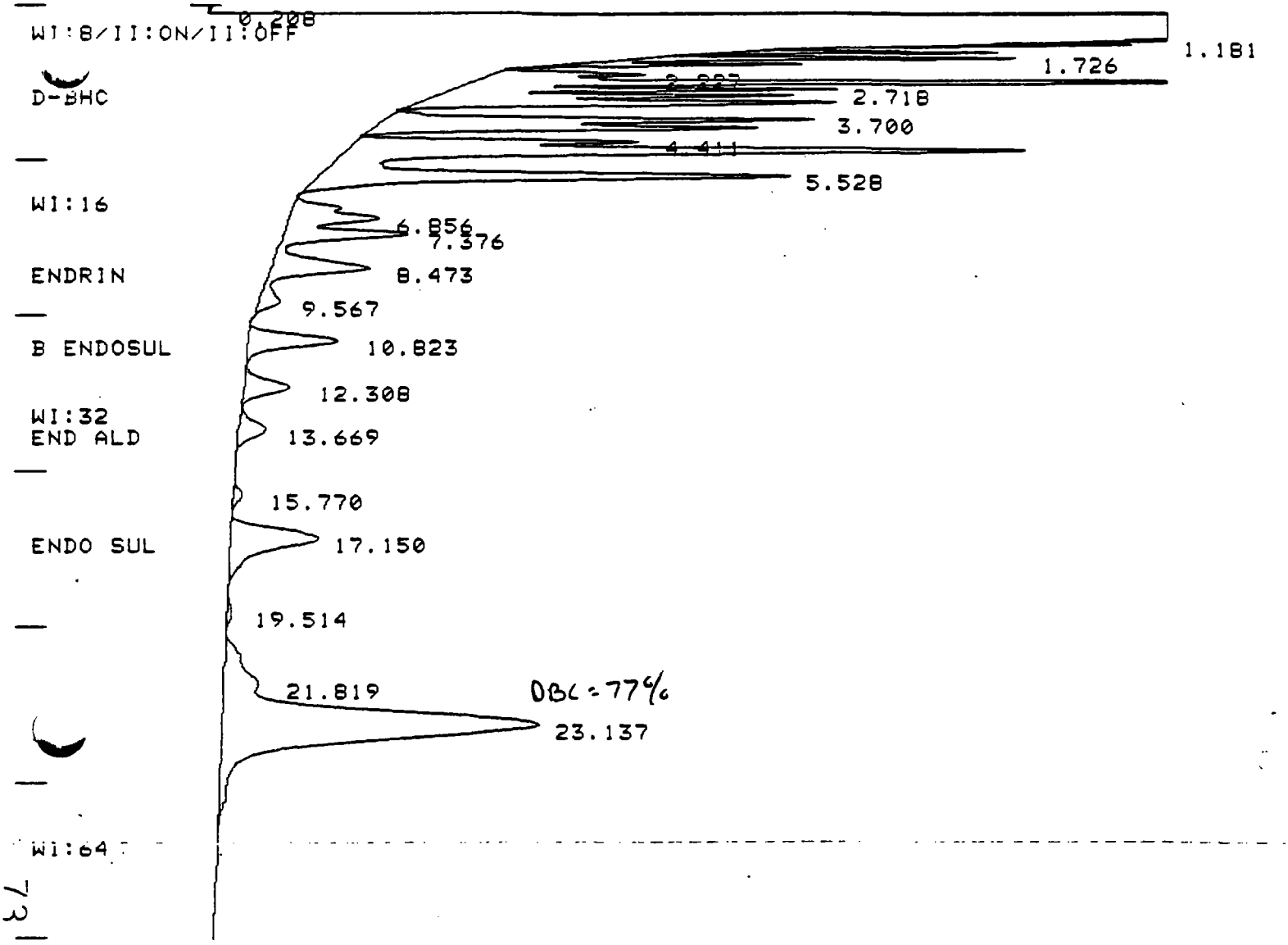
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



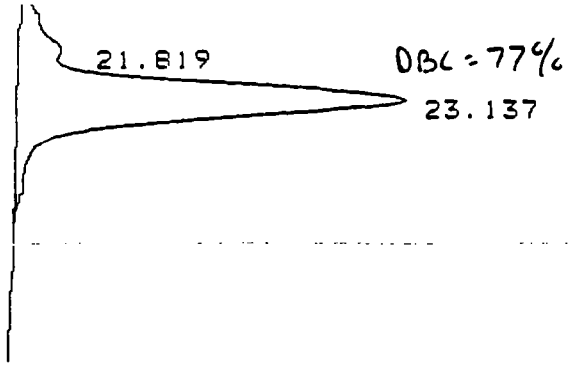
73

TITLE: RUN # 18 08-132 0:11 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091039 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.292		125256	VV	?	2.10
2		0.0000	0.368		122253	VB	?	6.60
3		0.0000	0.487		84380	BB		2.40
		0.0000	0.672		130578	BV		4.20
		0.0000	0.824		15329	VV		2.05
6		0.0000	0.880		9234	VB	?	1.60
7		0.0000	1.181		1908	BV		2.10
8		0.0000	1.302		3051	VV		2.85
9		0.0000	1.534		4228	VV		4.40
10		0.0000	1.726		5806	VV		5.15
11		0.0000	1.912		3558	VV		3.70
12		0.0000	2.227		2342	VV	?	9.40

DBC



DBC = 77%

Factor = 0.069
peaks at 1.20, 2.35, + 5.06 min. missing in sample.

1242 = 9.08 Ht. x 0.069 µg/ml Ht. x 1ml x 1 = 0.63µg

TITLE: RUN # 18 08-132 0:11 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15091039 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.292		125256	VV	?	2.10
2		0.0000	0.368		122253	VB	?	6.60
3		0.0000	0.487		84380	BB		2.40
4		0.0000	0.672		130578	BV		4.20
5		0.0000	0.824		15329	VV		2.05
6		0.0000	0.880		9234	VB	?	1.60
7		0.0000	1.181		1908	BV		2.10
8		0.0000	1.302		3051	VV		2.85
9		0.0000	1.534		4228	VV		4.40
10		0.0000	1.726	H= 9.08	5806	VV		5.15
11		0.0000	1.912		3558	VV		3.70
12		0.0000	2.227		2342	VV	?	9.40
13		0.0000	2.487		19476	VV		5.70
14	D-BHC	0.0102	2.718	-0.022	5918	VV		6.10
15	ALDRIN	0.0082	2.917	-0.093	5500	VV		6.40
16		0.0000	3.146		6427	VV		9.40
17		0.0000	3.700		6620	VV		10.95
18		0.0000	3.961		5917	VV	?	11.90
19		0.0000	4.411		4347	VV	?	10.10
20		0.0000	4.697		10423	VV		13.65
21	A ENDOSUL	0.0238	5.528	-0.252	7259	VB		13.90
22		0.0000	6.528		731	BV	?	16.80
23	DIELDRIN	0.0056	6.856	-0.254	1388	VV		21.75
24		0.0000	7.376		1927	VV		17.40
25	ENDRIN	0.0087	8.473	-0.157	1499	VV	?	24.50
26		0.0000	9.567		348	VB		18.60
27	B ENDOSUL	0.0089	10.823	0.223	1358	BV		25.05
28		0.0000	12.308		692	VV		28.40
29	END ALD	0.0064	13.669	-0.441	419	VB		31.05
30		0.0000	15.770		120	BV		26.65
31	ENDO SUL	0.0243	17.150	-0.130	1341	VV		40.30
32		0.0000	21.819		517	VV	?	57.60
33	DBC	0.0769	23.137	0.087	4846	VB		56.40
TOTALS:		0.1730		-1.039	594996			

DETECTED PKS: 35 REJECTED PKS: 2

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -52

RACK: : VIAL: 4 INJ: 1

SAVED FILE: F1245

GC #2
1.5% SP-2250 / 1.95% SP-2401
4.10 min lead.

varian /sunnyvale,calif.p/n 03-906362-00

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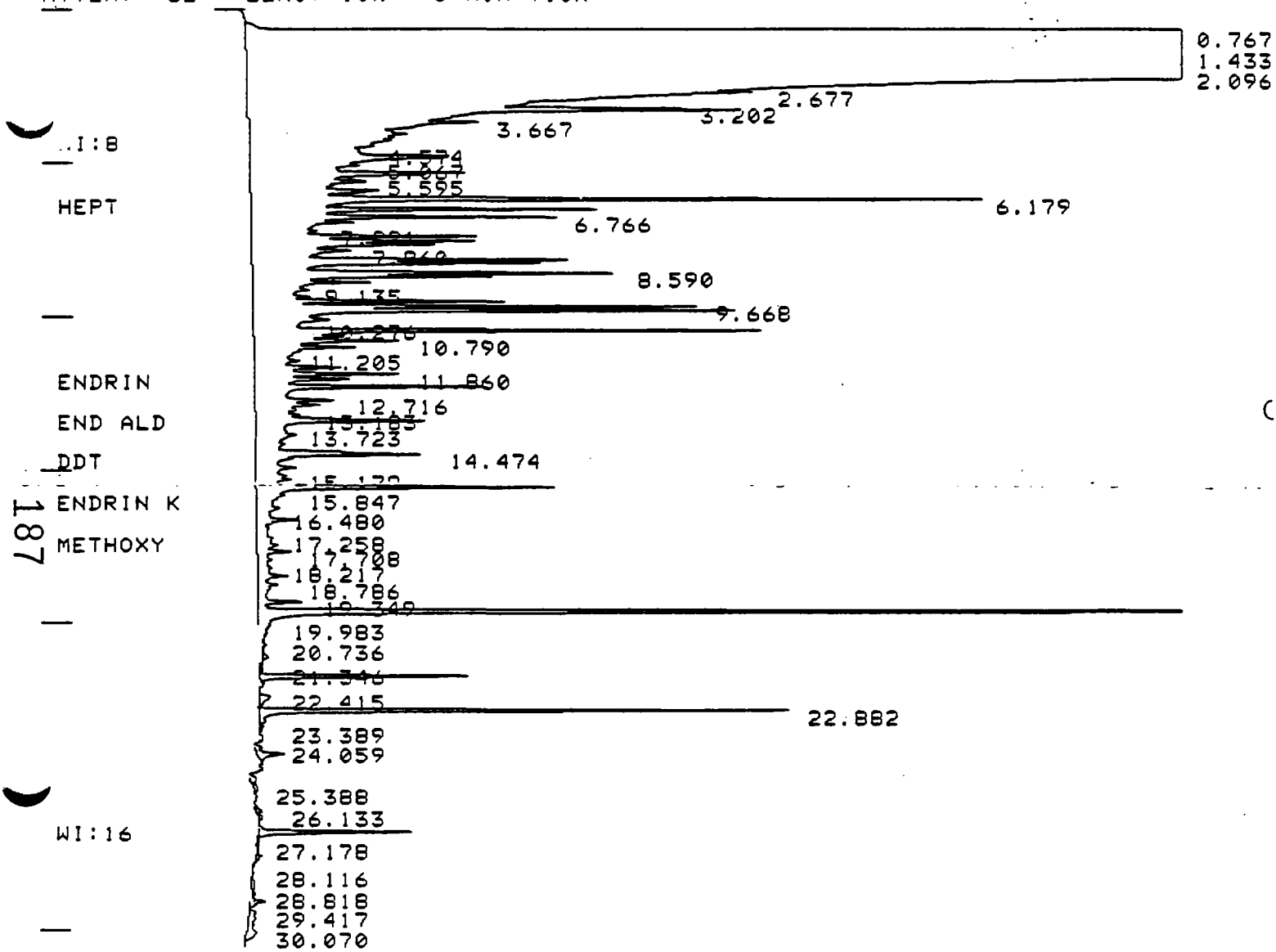
CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



187

08-132

TITLE: RUN# 5 16:54 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15091039 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.767		10683600	0.10	BV	?	41.30
2		0.0000	1.433		2193420	0.18	VV	?	4.80
3		0.0000	1.710		1584750	0.22	VV	?	4.15
4		0.0000	2.096		270040	0.27	VV	?	3.90
5		0.0000	2.215		630951	0.28	VV	?	3.55
6		0.0000	2.677		76486	0.34	VV	?	3.30
7		0.0000	2.738		255745	0.35	VV	?	0.40
8		0.0000	3.202		55569	0.41	VV	?	5.90
9		0.0000	3.266		135606	0.42	VV	?	9.25
10		0.0000	3.511		43340	0.45	VV	?	1.30
11	A-BHC	0.0223	3.667	-0.033	97094	0.47	VV	?	6.00
12		0.0000	4.044		53626	0.51	VV	?	7.30
13		0.0000	4.153		28179	0.53	VV	?	3.55
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

varian / sunnyvale, ca

08-132

TITLE: RUN# 5 16:54 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15091039 METHOD: 6B P

PEAK)	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.767		10683600	0.10	BV	?	41.30
2		0.0000	1.433		2193420	0.18	VV	?	4.80
3		0.0000	1.710		1584750	0.22	VV	?	4.15
4		0.0000	2.096		270040	0.27	VV	?	3.90
5		0.0000	2.215		630951	0.28	VV	?	3.55
6		0.0000	2.677		76486	0.34	VV	?	3.30
7		0.0000	2.738		255745	0.35	VV	?	0.40
8		0.0000	3.202		55569	0.41	VV	?	5.90
9		0.0000	3.266		135606	0.42	VV	?	9.25
10		0.0000	3.511		43340	0.45	VV	?	1.30
11	A-BHC	0.0223	3.667	-0.033	97094	0.47	VV	?	6.00
12		0.0000	4.044		53626	0.51	VV	?	7.30
13		0.0000	4.153		28179	0.53	VV	?	3.55
14	B-BHC	0.0272	4.258	-0.092	36576	0.54	VV	?	3.80
15		0.0000	4.431		33292	0.56	VV	?	4.30
16	G-BHC	0.0051	4.574	0.064	19620	0.58	VV	?	4.90
17		0.0000	4.771		45678	0.61	VV	?	10.90
18		0.0000	4.816		54020	0.61	VV	?	1.20
19		0.0000	5.067		28006	0.64	VV	?	4.40
20	D-BHC	0.0034	5.203	0.003	11270	0.66	VV	?	2.80
21		0.0000	5.321		33815	0.68	VV	?	5.30
22		0.0000	5.379		34042	0.68	VV	?	13.55
23		0.0000	5.595		33673	0.71	VV	?	8.20
24		0.0000	5.696		16567	0.73	VV	?	
25		0.0000	5.889		22906	0.75	VV	?	7.50
26		0.0000	5.959		17788	0.76	VV	?	2.30
27		0.0000	6.179		165296	0.79	VV		5.20
28		0.0000	6.511		66501	0.83	VV		4.70
29	HEPT	0.0258	6.766	0.106	59168	0.86	VV		4.40
30		0.0000	6.935		37871	0.88	VV	?	5.80
31		0.0000	7.221		16091	0.92	VV	?	7.55
32		0.0000	7.406		40969	0.94	VV		5.00
33		0.0000	7.558		35242	0.96	VV	?	5.50
34		0.0000	7.662		38239	0.98	VV	?	7.50
35	ALDRIN	0.0104	7.860	0.030	35944	1.00	VV	?	7.20
36		0.0000	8.145		49499	1.04	VV	?	3.15
37		0.0000	8.256		62467	1.05	VV	?	5.85
38		0.0000	8.590		67267	1.09	VV		5.35
39		0.0000	8.697		40372	1.11	VV	?	5.35
40		0.0000	8.892		31491	1.13	VV	?	8.75
41		0.0000	9.135		18229	1.16	VV	?	5.80
42	HEPT EP	0.0052	9.359	-0.031	13456	1.19	VV	?	7.10
43		0.0000	9.507		39791	1.21	VV	?	2.50
44		0.0000	9.668		64760	1.23	VV		4.30
45		0.0000	9.797		91063	1.25	VV		4.80
46		0.0000	10.095		28068	1.28	VV	?	9.90
47		0.0000	10.276		6025	1.31	VV	?	1.45
48		0.0000	10.456		89088	1.33	VV		4.25
49		0.0000	10.655		16008	1.36	VV	?	5.10
50	A ENDO	0.0114	10.790	0.020	30267	1.37	VV	?	4.05
51		0.0000	10.993		21075	1.40	VV	?	7.80
52		0.0000	11.110		10360	1.41	VV	?	2.80
53		0.0000	11.205		8287	1.43	VV	?	
54		0.0000	11.435		15296	1.46	VV	?	7.20
55		0.0000	11.648		19925	1.48	VV		8.60
56	DIELDRIN	0.0110	11.860	0.010	28612	1.51	VV		5.45
57	DDE	0.0082	12.024	-0.106	22088	1.53	VV		7.10
58		0.0000	12.271		52506	1.56	VV		4.85
59	ENDRIN	0.0097	12.716	0.016	20397	1.62	VV	?	9.50
60		0.0000	12.864		14410	1.64	VV	?	6.90
61		0.0000	13.030		10784	1.66	VV	?	5.90
62	B ENDO	0.0042	13.183	0.043	9700	1.68	VV	?	6.80
63		0.0000	13.380		44015	1.70	VV		6.10
64		0.0000	13.723		9763	1.75	VV	?	6.00
65	DDD	0.0094	13.824	-0.076	17848	1.76	VV	?	6.20
66	END ALD	0.0052	14.134	0.124	10059	1.80	VV	?	6.30
67		0.0000	14.474		42678	1.84	VV		5.00
68		0.0000	14.609		9902	1.86	VV	?	2.70

var. Sunnyvale, calif. p/n 03 906362 00

48		0.0000	10.456		89088	1.33	VV		4.25
49		0.0000	10.655		16008	1.36	VV	?	5.10
50	A ENDO	0.0114	10.790	0.020	30267	1.37	VV	?	4.05
51		0.0000	10.993		21075	1.40	VV	?	7.80
52		0.0000	11.110		10360	1.41	VV	?	2.80
53		0.0000	11.205		8287	1.43	VV	?	
54		0.0000	11.435		15296	1.46	VV	?	7.20
55		0.0000	11.648		19925	1.48	VV		8.60
56	DIELDRIN	0.0110	11.860	0.010	28612	1.51	VV		5.45
57	DDE	0.0082	12.024	-0.106	22088	1.53	VV		7.10
58		0.0000	12.271		52506	1.56	VV		4.85
59	ENDRIN	0.0097	12.716	0.016	20397	1.62	VV	?	9.50
60		0.0000	12.864		14410	1.64	VV	?	6.90
61		0.0000	13.030		10784	1.66	VV	?	5.90
62	B ENDO	0.0042	13.183	0.043	9700	1.68	VV	?	6.80
63		0.0000	13.380		44015	1.70	VV		6.10
64		0.0000	13.723		9763	1.75	VV	?	6.00
65	DDD	0.0094	13.824	-0.076	17848	1.76	VV	?	6.20
66	END ALD	0.0052	14.134	0.124	10059	1.80	VV	?	6.30
67		0.0000	14.474		42678	1.84	VV		9.00
68		0.0000	14.609		9902	1.86	VV	?	2.70
69	ENDO SO4	0.0073	14.910	-0.130	15090	1.90	VV	?	14.10
70		0.0000	15.179		7861	1.93	VV	?	9.50
71		0.0000	15.302		7309	1.95	VV	?	5.15
72	DDT	0.0394	15.580	0.090	67998	1.98	VV		6.00
73		0.0000	15.847		11962	2.02	VV	?	5.70
74		0.0000	16.281		11160	2.07	VV	?	9.50
75		0.0000	16.480		2659	2.10	VV	?	3.30
76		0.0000	16.666		9415	2.12	VV	?	8.30
77		0.0000	16.752		2222	2.13	VV	?	
78	ENDRIN K	0.0015	16.916	0.026	3836	2.15	VV	?	6.00
79		0.0000	17.258		6154	2.20	VV	?	6.30
80		0.0000	17.490		7648	2.22	VV	?	6.85
81		0.0000	17.708		8164	2.25	VV	?	14.05
82		0.0000	17.958		4532	2.29	VV	?	5.40
83	METHOXY	0.0073	18.217	-0.063	5002	2.32	VV	?	6.90
84		0.0000	18.487		9819	2.35	VV	?	8.50
85		0.0000	18.786		4660	2.39	VV	?	9.60
86		0.0000	18.887		4734	2.40	VV	?	2.50
87		0.0000	19.349		9952	2.46	VV	?	4.10
88		0.0000	19.504		1282	2.48	VV	?	4.60
89	SURROGATE	0.0929	19.656	-0.094	210069	2.50	VV		4.70
90		0.0000	21.130		2428	2.69	T	?	10.10
91		0.0000	21.755		32370	2.77	VB	?	2.95
92		0.0000	22.415		4185	2.85	BV		10.30
93		0.0000	22.882		81049	2.91	VV		4.30
94		0.0000	24.059		1184	3.06	BV	?	7.60
95		0.0000	24.280		6557	3.09	VB		7.05
96		0.0000	25.388		3185	3.23	BB	?	5.10
97		0.0000	26.133		1133	3.33	BB	?	13.70
98		0.0000	26.812		29125	3.41	BV	?	2.85
99		0.0000	27.265		1193	3.47	T	?	20.90
100		0.0000	27.565		2396	3.51	T		6.40
101		0.0000	28.818		2603	3.67	T	?	27.10
102		0.0000	29.055		4935	3.70	VV	?	4.05
103		0.0000	29.417		2635	3.74	VV	?	8.20
104		0.0000	29.603		2950	3.77	VV	?	6.10
105		0.0000	30.070		7377	3.83	VB	?	15.00
TOTALS:		0.3069		-0.093	18603400				

08-132
Run #5
15091039

DETECTED PKS: 113 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 25.5 OFFSET: -77

VED FILE: P783

NOTES:

GC#6, SPB-5
2 UL INJECTED
0.32MM ID; 30M
155°C (3 MIN) ---> 270 °C @4°C/MIN

varian /sunnyvale, calif

3-906362-00

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490.

Sample Number
08-140-Puf.
15101071

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10-16-85

Date Analyzed: 10-21-85

Conc/Dil Factor: 1

CAS Number	DL x 1	~~ug/l or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-140-Puf.
15101071

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10-16-85

Date Analyzed: 10-21-85

Conc/Dil Factor: 1

CAS Number	DLx1	ug/~~l or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	0.1
11104-28-2	Aroclor-1221	0.1
11141-16-5	Aroclor-1232	0.1
53469-21-9	Aroclor-1242	0.1
12672-29-6	Aroclor-1248	0.1
11097-69-1	Aroclor-1254	0.2
11096-82-5	Aroclor-1260	0.2

V_i = Volume of extract injected (ul)

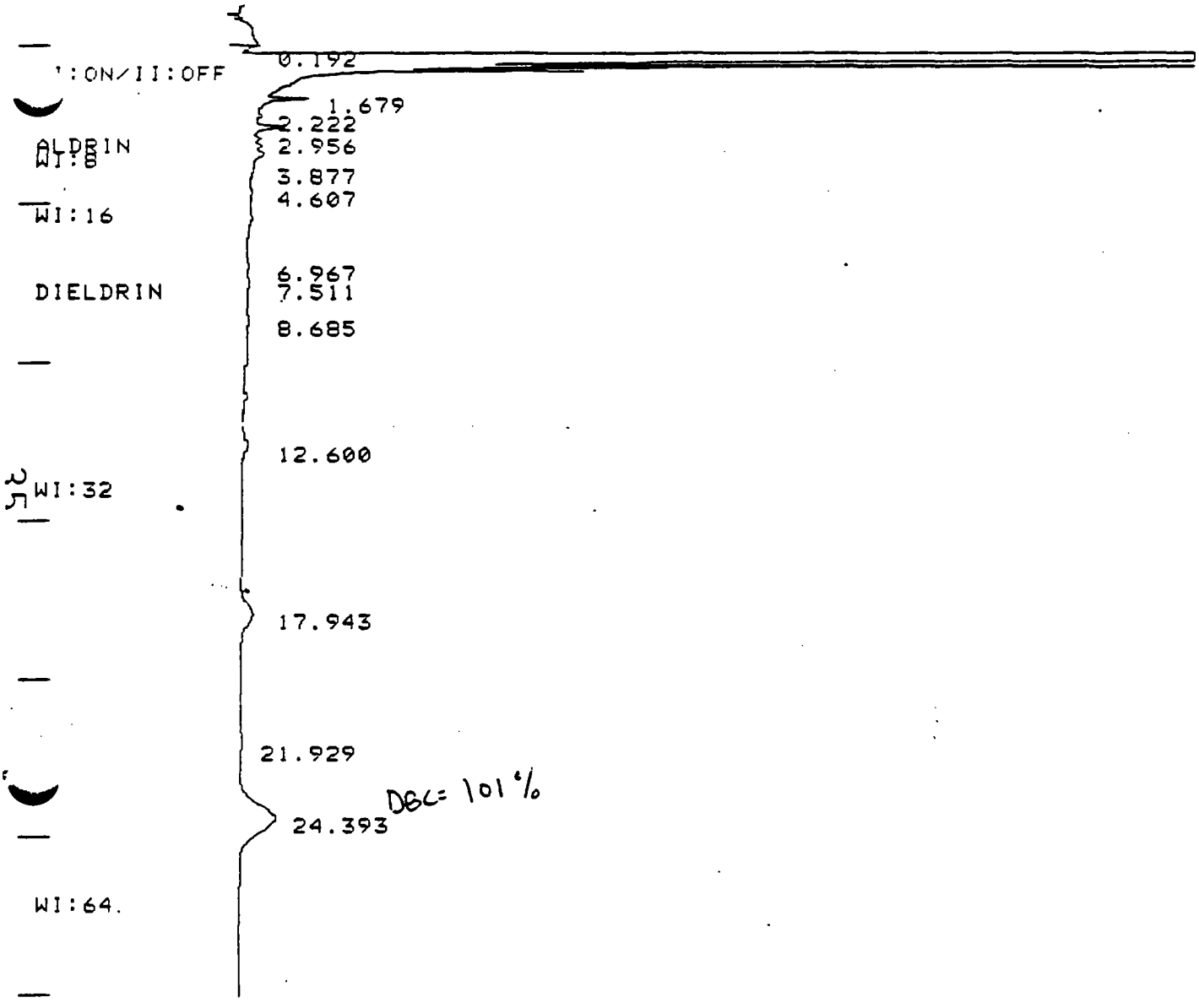
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100 µl/1ml

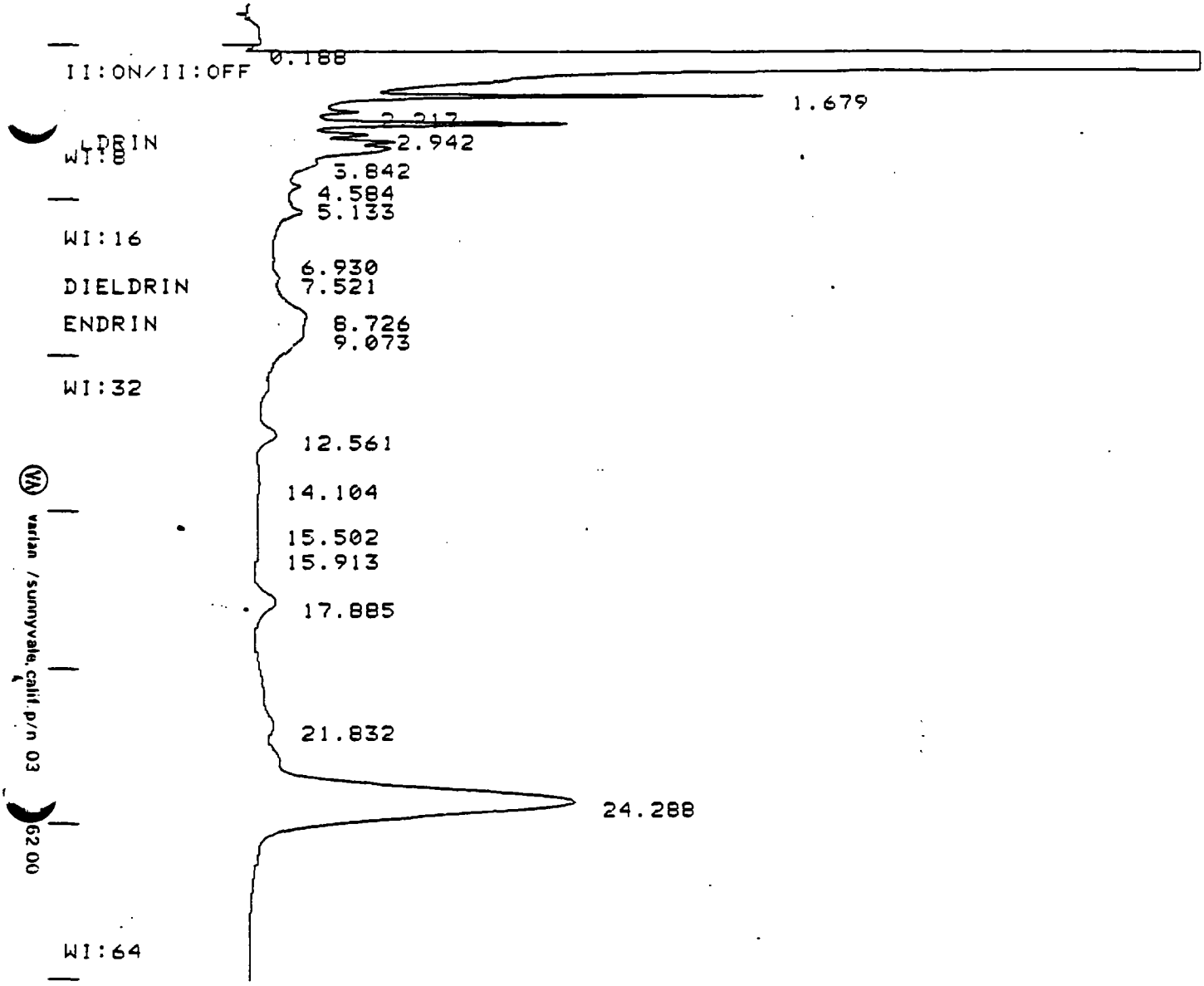
08-140 PUF

TITLE: RUN # 10 21:39 17 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~09~~1071 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.290		131060	VB	5.60
2		0.0000	0.448		21668	BB	1.90
3		0.0000	0.645		16693	BV	2.40
4		0.0000	0.787		2943	VB	2.15
5		0.0000	1.679		628	BB	4.20
6	D-BHC	0.0007	2.564	-0.136	423	BV	6.65
7		0.0000	3.176		116	VV	8.45
8		0.0000	3.445		142	VV	14.15
9	ENDO SUL	0.0027	17.943	-0.037	179	BB	41.70
10	DBC	0.0101	24.393	-1.137	527	VB	56.70
TOTALS:		0.0135		-1.910	174374		

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



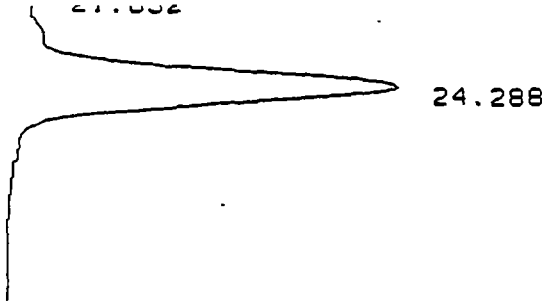
08-140 PUF

TITLE: RUN # 10 14:47 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~09~~10 1071 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.269		133234	VV	?	2.40
2		0.0000	0.309		115082	VV	?	2.70
3		0.0000	0.342		107477	VB	?	3.00
4		0.0000	0.449		95458	BB	?	1.10
5		0.0000	0.644		104229	BV		2.60
6		0.0000	0.786		27695	VB		2.15
7		0.0000	1.679		6035	BB		4.30
8	B-BHC	0.0016	2.217	-0.113	525	BV		5.15
9		0.0000	2.581		3808	VV		6.90
10	ALDRIN	0.0014	2.942	-0.048	864	VV	?	7.60
11		0.0000	3.177		1315	VV	?	8.00
12		0.0000	3.370		1272	VV	?	17.15
13		0.0000	3.842		[illegible]	VB		5.55

varian / sunnyvale, calif p/n 03 62 00



08-140 PUF

TITLE: RUN # 10 14:47 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~09~~10 1071 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.269		133234	VV	?	2.40
2		0.0000	0.309		115082	VV	?	2.70
3		0.0000	0.342		107477	VB	?	3.00
4		0.0000	0.449		95458	BB	?	1.10
5		0.0000	0.644		104229	BV		2.60
6		0.0000	0.786		27695	VB		2.15
7		0.0000	1.679		6035	BB		4.30
8	B-BHC	0.0016	2.217	-0.113	525	BV		5.15
9		0.0000	2.581		3808	VV		6.90
10	ALDRIN	0.0014	2.942	-0.048	864	VV	?	7.60
11		0.0000	3.177		1315	VV	?	8.00
12		0.0000	3.370		1272	VV	?	17.15
13		0.0000	3.842		276	VB		5.55
14		0.0000	4.584		150	BB		9.55
15		0.0000	5.394		276	VB	?	14.65
16	DIELDRIN	0.0005	7.521	0.121	124	VV	?	20.40
17		0.0000	8.726		557	VV	?	27.20
18	ENDRIN	0.0030	9.073	0.043	516	VB	?	95.10
19		0.0000	12.561		270	BV		29.60
20	ENDO SUL	0.0051	17.885	-0.695	323	VV		42.00
21		0.0000	21.832		317	VV	?	57.60
22	DBC	0.0940	24.288	-1.242	4915	VB	?	58.75
TOTALS:		0.1056		-1.934	604718			

DETECTED PKS: 29 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 21

RACK: 1 VIAL: 10 INJ: 1

SAVED FILE: P1955

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

03 906362 00

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490.

Sample Number
08-140-Puf.
15101071

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10-16-85

Date Analyzed: 10-21-85

Conc/Dil Factor: 1

CAS Number	DL x 1	ug/~~l or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	0.1
11104-28-2	Aroclor-1221	0.1
11141-16-5	Aroclor-1232	0.1
53469-21-9	Aroclor-1242	0.1
12672-29-6	Aroclor-1248	0.1
11097-69-1	Aroclor-1254	0.2
11096-82-5	Aroclor-1260	0.2

V_i = Volume of extract injected (ul)

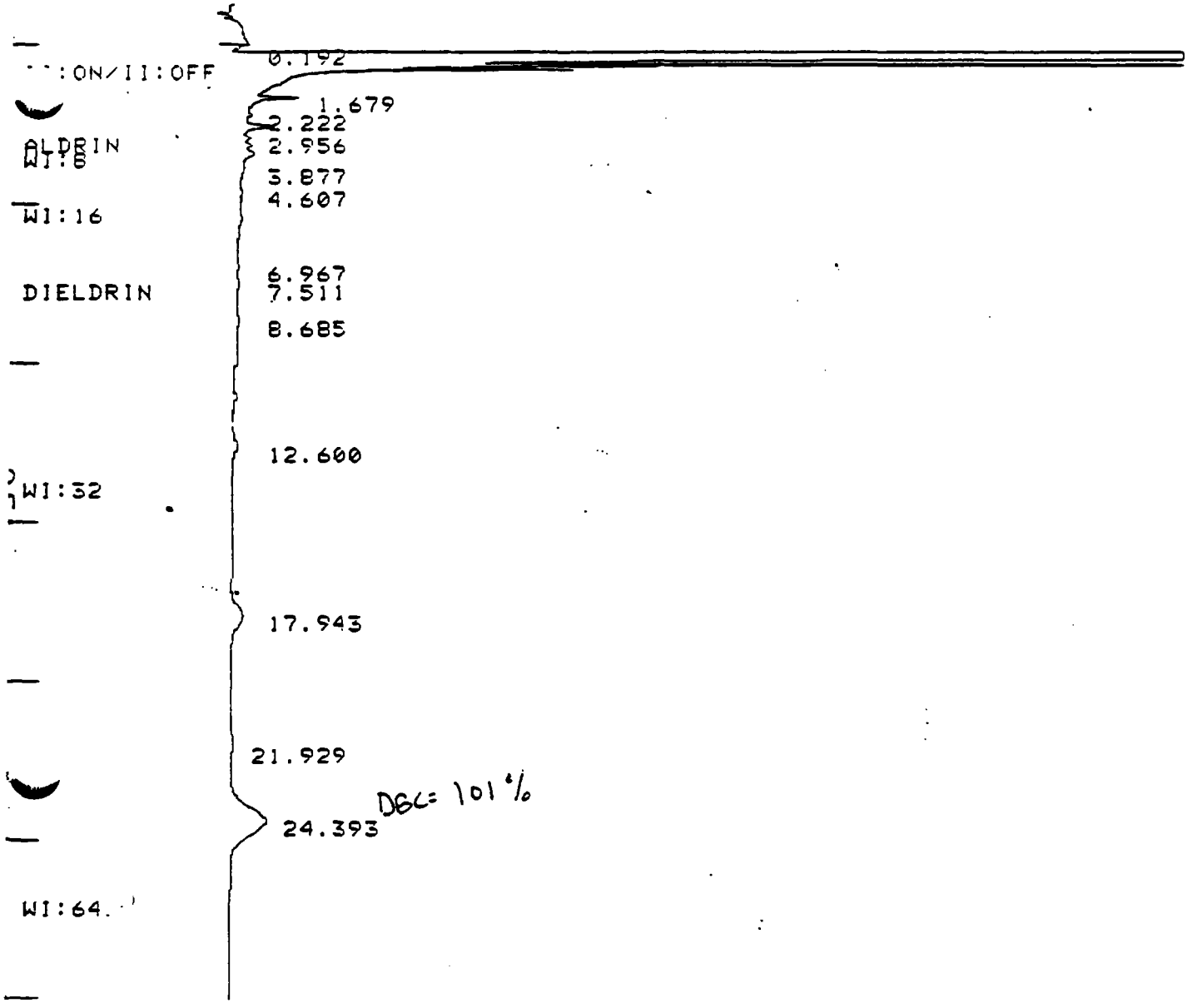
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100 µl/1ml

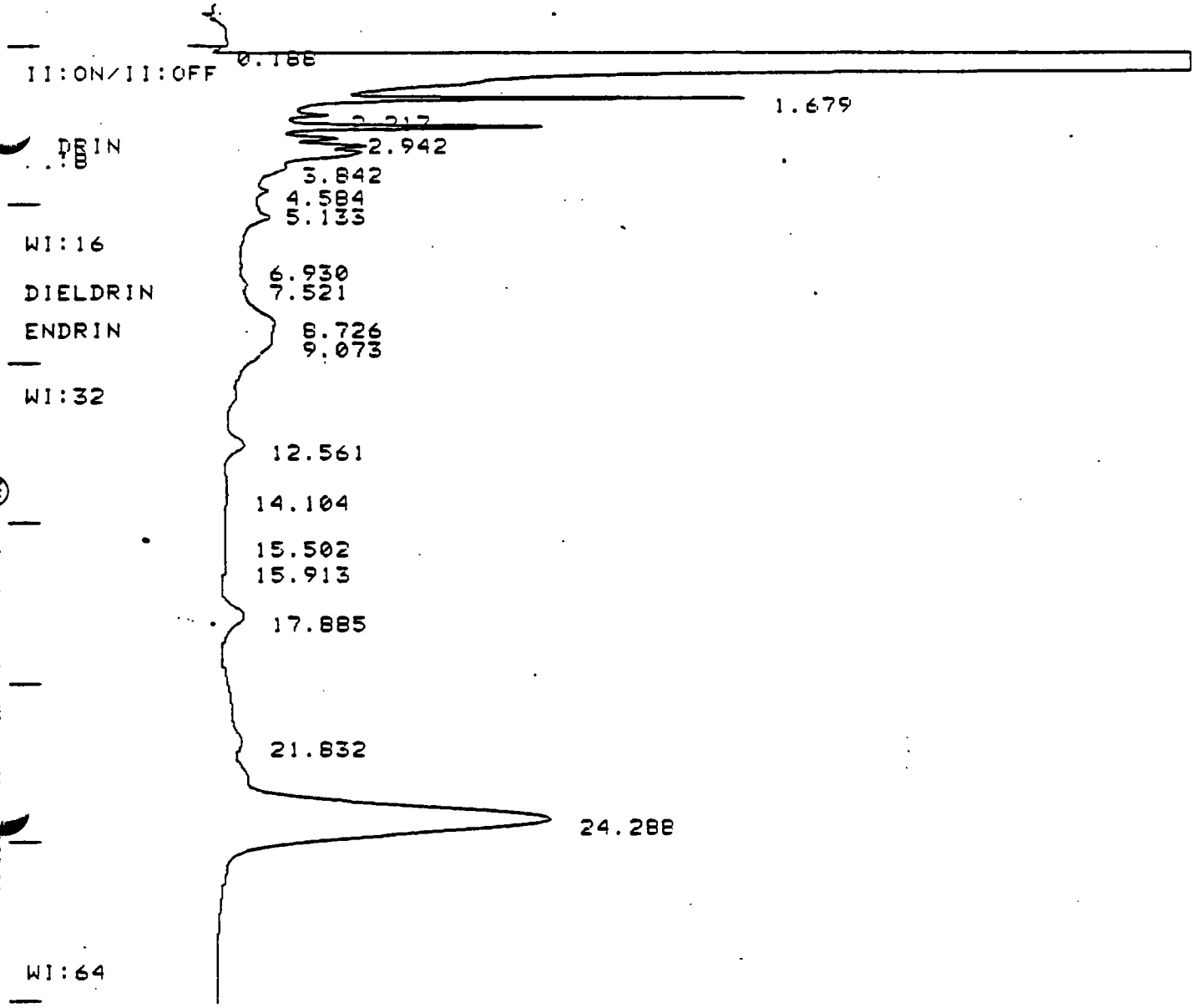
08-140 PUF

TITLE: RUN # 10 <> 21:39 17 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~09~~10 1071 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.290		131060	VB	5.60
2		0.0000	0.448		21668	BB	1.90
3		0.0000	0.645		16693	BV	2.40
4		0.0000	0.787		2943	VB	2.15
5		0.0000	1.679		628	BB	4.20
6	D-BHC	0.0007	2.584	-0.136	423	BV	2.35
7		0.0000	3.176		118	VV	2.45
8		0.0000	3.426		142	VV	14.15
9	[illegible]	0.0037	17.943	-0.037	170	BB	41.70
10	DBC	0.0101	24.393	-1.113	527	B	52.50

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK

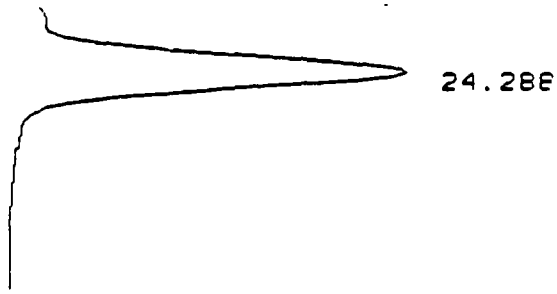


08-140 PUF

TITLE: RUN # 10 14:47 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~6~~10 1071 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.269		133234	VV	?	2.40
2		0.0000	0.309		115082	VV	?	2.70
3		0.0000	0.342		107477	VB	?	3.00
4		0.0000	0.449		95458	BB	?	1.10
5		0.0000	0.644		104229	BV		2.60
6		0.0000	0.786		27695	VB		2.15
7		0.0000	1.679		6035	BB		4.30
8	B-BHC	0.0016	2.217	-0.113	525	BV		5.15
9		0.0000	2.581		3808	VV		6.50
10	[illegible]	0.0014	2.942	-0.048	564	VV	?	7.00
11		0.0000	3.177		1315	VV	?	8.00
12		0.0000	3.370		1272	[illegible]	?	[illegible]



08-140 PUF

TITLE: RUN # 10 14:47 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~09~~10 1071 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.269		133234	VV	?	2.40
2		0.0000	0.309		115082	VV	?	2.70
3		0.0000	0.342		107477	VB	?	3.00
4		0.0000	0.449		95458	BB	?	1.10
5		0.0000	0.644		104229	BV		2.60
6		0.0000	0.786		27695	VB		2.15
7		0.0000	1.679		6035	BB		4.30
8	B-BHC	0.0016	2.217	-0.113	525	BV		5.15
9		0.0000	2.581		3808	VV		6.90
10	ALDRIN	0.0014	2.942	-0.048	864	VV	?	7.60
11		0.0000	3.177		1315	VV	?	8.00
12		0.0000	3.370		1272	VV	?	17.15
13		0.0000	3.842		276	VB		5.55
14		0.0000	4.584		150	BB		9.55
15		0.0000	5.394		276	VB	?	14.65
16	DIELDRIN	0.0005	7.521	0.121	124	VV	?	20.40
17		0.0000	8.726		557	VV	?	27.20
18	ENDRIN	0.0030	9.073	0.043	516	VB	?	95.10
19		0.0000	12.561		270	BV		29.60
20	ENDO SUL	0.0051	17.885	-0.695	523	VV		42.00
21		0.0000	21.832		317	VV	?	57.60
22	DBC	0.0940	24.288	-1.242	4915	VB	?	58.75
TOTALS:		0.1056		-1.934	604718			

DETECTED PKS: 29 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 21

RACK: 1 VIAL: 10 INJ: 1

SAVED FILE: P1955

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
C #2

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-141
15101339

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/29/85

Date Analyzed: 11/11/85

Dil Factor: 5

CAS Number	DL X 5	ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

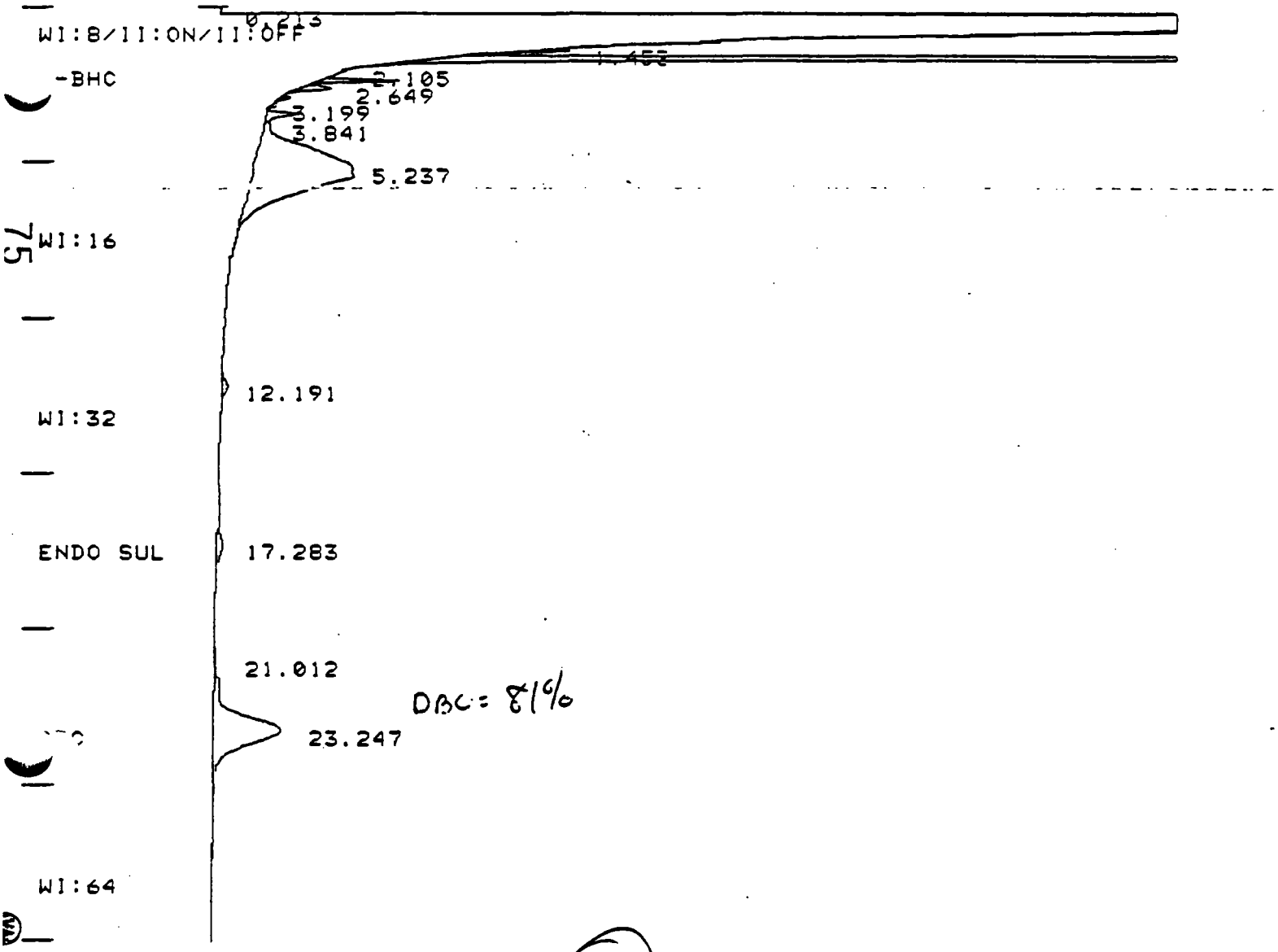
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



75

115

TITLE: RUN # 19 68-144 0:46 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101339 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.277		157076	VV	?	2.00
2		0.0000	0.351		151418	VB	?	7.60
3		0.0000	0.680		34618	BV		2.50
4		0.0000	0.817		15966	VB		2.20
5		0.0000	1.453		799	BB		2.15
6	A-BHC	0.051e	1.687	0.067	67720	BB		4.85
7	B-BHC	0.003e	2.393	0.033	1202	BV		5.10
8	D-BHC	0.0005	2.649	-0.091	47e	VB		7.00
9	ALDRIN	0.0002	2.946	-0.061	154	BV		5.05
10		0.0000	3.479		46e	VV		8.45
11		0.0000	3.841		114	VV	?	10.50
12		0.0000	3.943		114		?	[illegible]
13		[illegible]	[illegible]		[illegible]		?	[illegible]

sunnyvale.calif.p/... 3C06E2-C0

TITLE: RUN # 19 68-144 0:46 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101339 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.277		157076	VV	?	2.00
2		0.0000	0.351		151418	VB	?	7.60
3		0.0000	0.680		34618	BV		2.50
4		0.0000	0.817		15986	VB		2.20
5		0.0000	1.453		799	BB		2.15
6	A-BHC	0.0516	1.687	0.067	67720	BB		4.85
7	B-BHC	0.0036	2.393	0.033	1202	BV		5.10
8	D-BHC	0.0008	2.649	-0.091	476	VB		7.00
9	ALDRIN	0.0002	2.949	-0.061	154	BV		5.05
10		0.0000	3.479		466	VV		8.45
11		0.0000	3.841		114	VV	?	10.50
12		0.0000	3.863		114	VV	?	
13		0.0000	5.237		1510	VV	?	13.30
14		0.0000	5.458		1558	VB	?	76.45
15		0.0000	12.191		101	BB		27.20
16	DBC	0.0162	23.247	0.197	1020	VB		55.60
TOTALS:		0.0724		0.145	434332			

DETECTED PKS: 21 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

'SE: 7.3 OFFSET: -34

RACK: 1 VIAL: 5 INJ: 1

SAVED FILE: P1246

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

76

TITLE: RUN# 19 68-144 0:46 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101339 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.277		157076	0.09	VV	?	2.00
2		0.0000	0.351		151418	0.12	VB	?	7.60
3		0.0000	0.680		34618	0.23	BV		2.50
4		0.0000	0.817		15986	0.27	VB		2.20
5		0.0000	1.453		799	0.48	BB		2.15
6		0.0000	1.687		67720	0.56	BB		4.85
7		0.0000	2.393		1202	0.79	BV		5.10
8		0.0000	2.649		476	0.88	VB		7.00
9		0.0000	2.949		154	0.98	BV		5.05
10		0.0000	3.479		466	1.15	VV		8.45
11		0.0000	3.841		114	1.28	VV	?	10.50
12		0.0000	[illegible]		[illegible]	[illegible]	[illegible]		

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-144
15101339

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/29/85

Date Analyzed: 11/11/85

Dil Factor: 5

CAS Number	DL X 5	ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	0.1
11104-28-2	Aroclor-1221	0.1
11141-16-5	Aroclor-1232	0.1
53469-21-9	Aroclor-1242	0.1
12672-29-6	Aroclor-1248	0.1
11097-69-1	Aroclor-1254	0.2
11096-82-5	Aroclor-1260	0.2

V_i = Volume of extract injected (ul)

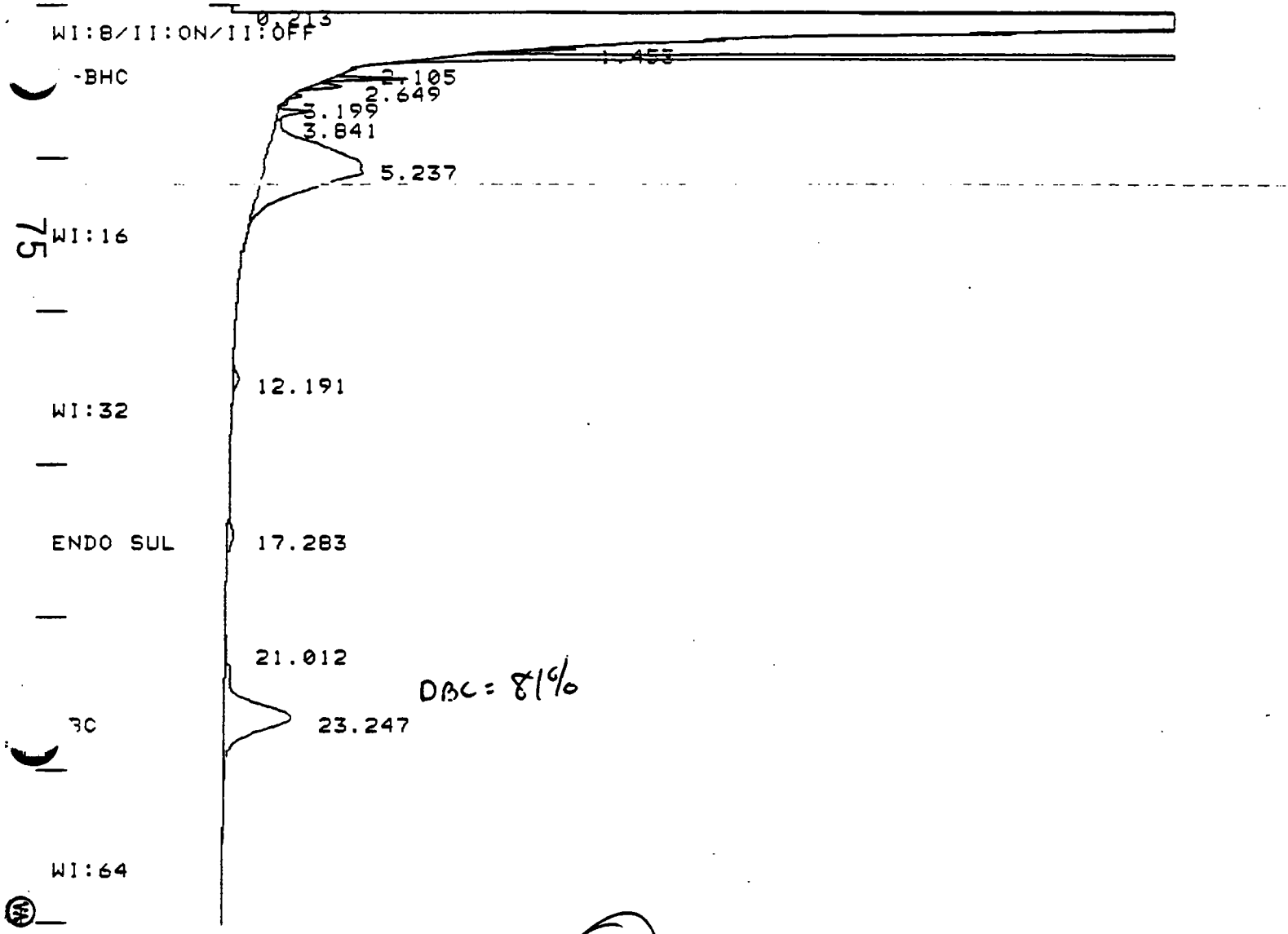
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



75

115

TITLE: RUN # 19 68-144 0:46 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101339 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.277		157076	VV	?	2.00
2		0.0000	0.351		151418	VB	?	7.60
3		0.0000	0.680		34618	BV		2.50
4		0.0000	0.817		15986	VB		2.20
5		0.0000	1.453		799	BB		2.15
6	A-BHC	0.0516	1.687	0.067	67720	BB		4.85
7	B-BHC	0.0036	2.393	0.033	1202	BV		5.10
8	D-BHC	0.0008	2.649	-0.091	476	VB		7.00
9	ALDRIN	0.0002	2.949	-0.061	154	BV		5.05
10		0.0000	3.479		466	VV		8.45
11		0.0000	3.841		114	VV	?	10.50
12		0.0000	3.863		114	VV	?	
13		0.0000	5.237		1510	VV	?	13.30

varian / sunnyvale, calif. p/n 03-906362-00

115

/sunnyvale, calif.

3-906362-00

TLE: RUN # 19 08-144 0:46 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101339 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.277		157076	VV	?	2.00
2		0.0000	0.351		151418	VB	?	7.60
3		0.0000	0.680		34618	BV		2.50
4		0.0000	0.817		15986	VB		2.20
5		0.0000	1.453		799	BB		2.15
6	A-BHC	0.0516	1.687	0.067	67720	BB		4.85
7	B-BHC	0.0036	2.393	0.033	1202	BV		5.10
8	D-BHC	0.0008	2.649	-0.091	476	VB		7.00
9	ALDRIN	0.0002	2.949	-0.061	154	BV		5.05
10		0.0000	3.479		466	VV		8.45
11		0.0000	3.841		114	VV	?	10.50
12		0.0000	3.863		114	VV	?	
13		0.0000	5.237		1510	VV	?	13.30
14		0.0000	5.458		1558	VB	?	76.45
15		0.0000	12.191		101	BB		27.20
16	DBC	0.0162	23.247	0.197	1020	VB		55.60
TOTALS:		0.0724		0.145	434332			

DETECTED PKS: 21 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

)ISE: 7.3 OFFSET: -34

RACK: 1 VIAL: 5 INJ: 1

SAVED FILE: P1246

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

76

TITLE: RUN# 19 08-144 0:46 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101339 METHOD: 2A PP-4

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.277		157076	0.09	VV	?	2.00
2		0.0000	0.351		151418	0.12	VB	?	7.60
3		0.0000	0.680		34618	0.23	BV		2.50
4		0.0000	0.817		15986	0.27	VB		2.20
5		0.0000	1.453		799	0.48	BB		2.15
6		0.0000	1.687		67720	0.56	BB		4.85
7		0.0000	2.393		1202	0.79	BV		5.10
8		0.0000	2.649		476	0.88	VB		7.00
9		0.0000	2.949		154	0.98	BV		5.05
10		0.0000	3.479		466	1.16	VV		8.45
11		0.0000	3.841		114	1.28	VV	?	10.50
12		0.0000	3.863		114	1.28	VV	?	

Environmental Protection Agency, CLP Sample Management Office,
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-145
15101340

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/24/85

Date Analyzed: 11/11/85

Dil Factor: 5

CAS Number	DL X 5	ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242 5	~~0.1~~ ~~1.5~~ 0.84 FJ
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

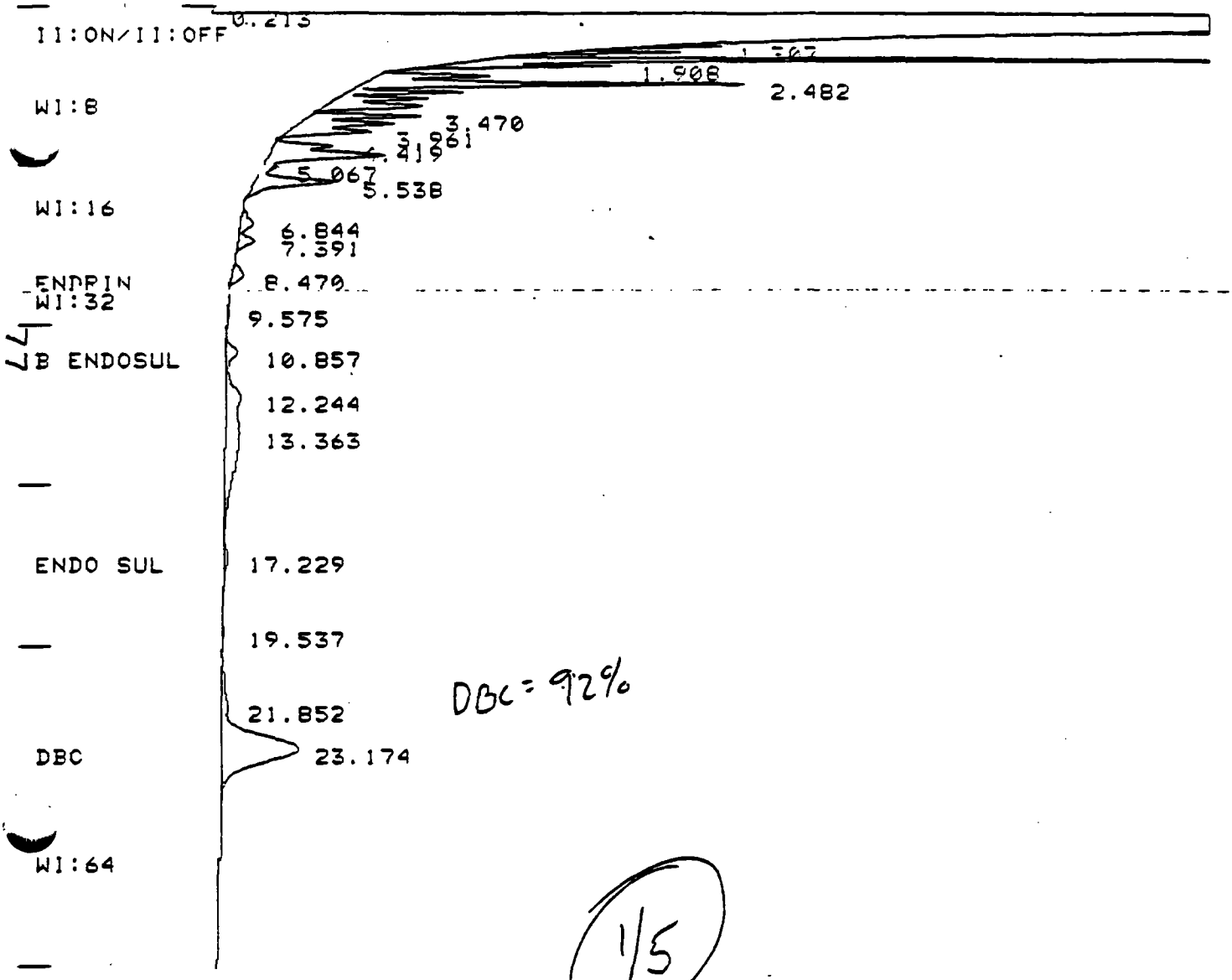
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



DBC = 92%

1/5

68-145

TITLE: RUN # 20 1:19 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101340 METHOD: 2A PF-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		153929	VV	?	2.00
2		0.0000	0.355		145283	VB	?	5.40
3		0.0000	0.479		17150	BB	?	0.65
4		0.0000	0.682		29385	BV		2.35
5		0.0000	0.822		4796	VB		1.90
6		0.0000	1.307		1014	BV		2.90
7		0.0000	1.487		1768	VB		3.50
8		0.0000	1.716		18679	BV		4.20
9		0.0000	1.908		2727	VV		3.30
10		0.0000	2.215		1696	VV	?	7.50
11		0.0000	2.482		5703	VV		6.10
12	D-E-[illegible]	0.0000	2.719	-0.021	1709	VV		5.55
13	ALDRIN	0.0000	2.918	-0.022	1363	VV		3.00
14		0.0000	3.154		1271	VV		3.05
15		0.0000	3.270		1555	VV		1.20

uadan /ersonwalk calif p/n 03 0063 2.00

WI:64

1/5

Factor = ~~0.069~~ 0.070
peaks missing at 1.72 min
2.35 & 1.20 min + 5.06 min.
in sample

12:42 = ~~4.26~~ 2.39 Ht. x ~~.069~~ .070 µg/ml int. x 1ml x 5 = ~~1.5~~ 0.84 µg
K3

68-145

TITLE: RUN # 20 1:19 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101340 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		153929	VV	?	2.00
2		0.0000	0.355		145283	VB	?	5.40
3		0.0000	0.479		17150	BB	?	0.65
4		0.0000	0.682		29385	BV		2.35
5		0.0000	0.822		4796	VB		1.90
6		0.0000	1.307		1014	BV		2.90
7		0.0000	1.487		1768	VB		3.50
8		0.0000	~~1.716~~		~~16879~~	BV		4.20
9		0.0000	1.908	H. ~~4.26~~ 2.39	2727	VV		3.30
10		0.0000	2.215		1696	VV	?	7.50
11		0.0000	2.482		5703	VV		6.10
12	D-BHC	0.0030	2.719	-0.021	1709	VV		5.55
13	ALDRIN	0.0020	2.918	-0.092	1363	VV		6.00
14		0.0000	3.154		1474	VV		9.05
15		0.0000	~~3.470~~		~~1659~~	VV		7.40
16		0.0000	3.699		1419	VV		9.00
17		0.0000	3.961		1247	VV		8.55
18		0.0000	4.419		874	VV	?	10.40
19		0.0000	4.700		1708	VV		13.30
20	A ENDOSUL	0.0038	5.538	-0.242	1167	VB		12.80
21	DIELDRIN	0.0008	6.844	-0.266	187	BV		24.40
22		0.0000	7.391		251	VB		14.50
23	ENDRIN	0.0010	8.470	-0.160	178	BB	?	24.95
24	B ENDOSUL	0.0011	10.857	0.257	165	BV		26.20
25		0.0000	12.244		223	VV	?	41.00
26		0.0000	13.363		215	VV		68.80
27	DBC	0.0183	23.174	0.124	1151	VB		55.10
TOTALS:		0.0300		-0.400	397120			

DETECTED PKS: 33 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -81

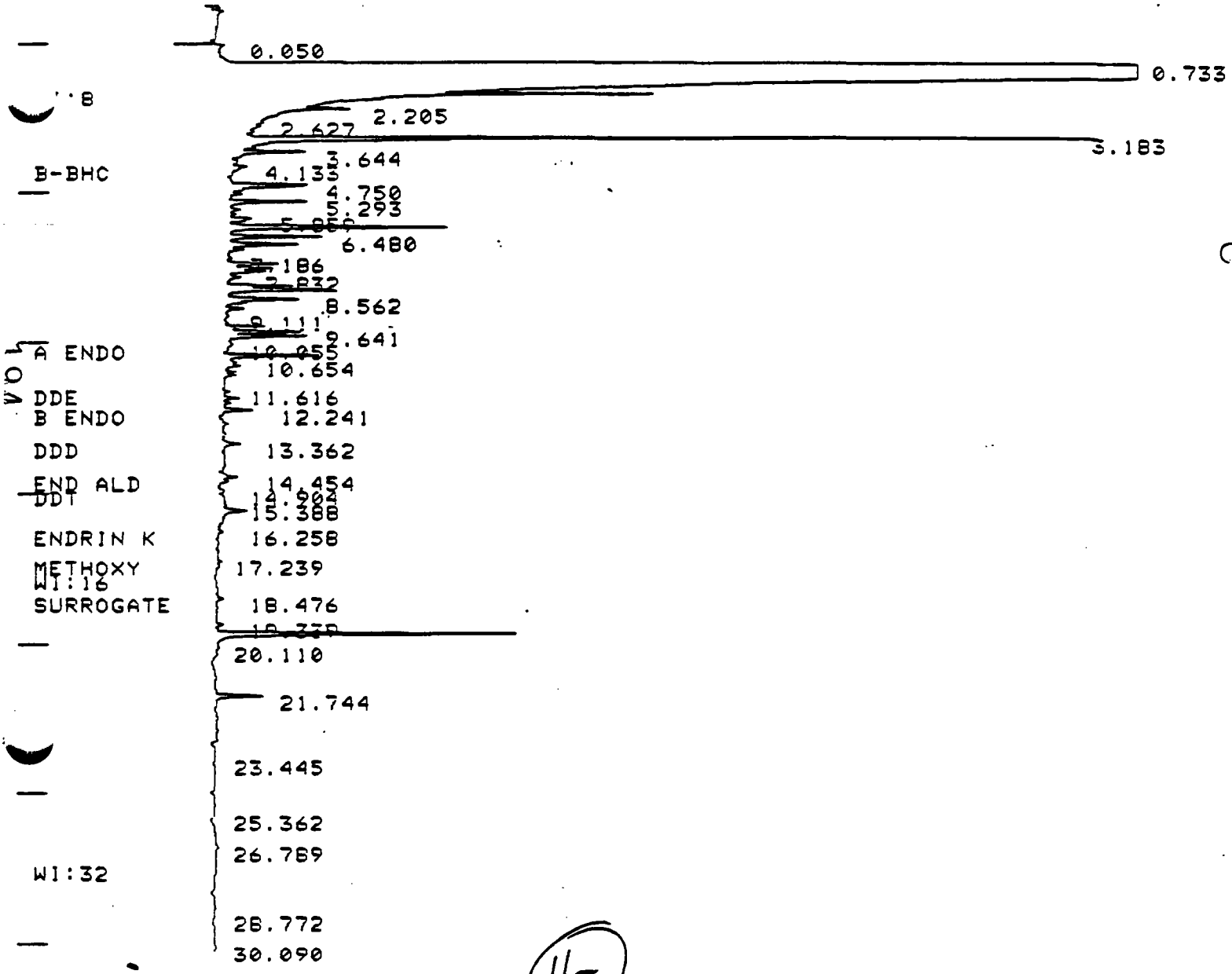
RACK: 1 VIAL: 6 INJ: 1

SAVED FILE: P1247

NOTES:
UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

8

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



1/5

TITLE: RUN# 8 08-145 18:49 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15101340 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE	W1/2 (SEC)
1		0.0000	0.050		2423	0.01	BB ?	3.00
2		0.0000	0.733		1958870	0.09	BV	7.75
3		0.0000	0.912		1234230	0.12	VV ?	19.95
4		0.0000	1.701		83646	0.22	VV ?	5.85
5		0.0000	1.846		29573	0.24	VV ?	0.30
6		0.0000	2.205		35736	0.28	VV ?	5.40
7		0.0000	2.389		20135	0.30	V ?	
8		0.0000	2.627		7972	0.33	VV ?	
9		0.0000	2.797		10352	0.36	V ?	4.00
10		0.0000	2.972		[illegible]	0.38	V ?	4.15

TITLE: RUN= 8 06 175 18:49 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15101340 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE	W1/2 (SEC)
1		0.0000	0.050		2423	0.01	BB	? 3.00
[illegible]		0.0000	0.733		1958870	0.09	BV	7.75
[illegible]		0.0000	0.912		1234230	0.12	VV	? 19.95
4		0.0000	1.701		83646	0.22	VV	? 5.85
5		0.0000	1.846		69573	0.24	VV	? 0.30
6		0.0000	2.205		35736	0.28	VV	? 5.40
7		0.0000	2.389		20138	0.30	VV	?
8		0.0000	2.627		7972	0.33	VV	?
9		0.0000	2.797		10382	0.36	VV	? 4.00
10		0.0000	2.972		6999	0.38	VV	? 4.15
11		0.0000	3.183		133463	0.41	VV	3.30
12	A-BHC	0.0039	3.644	-0.056	16836	0.46	VV	? 2.75
13		0.0000	3.938		2169	0.50	VV	? 5.00
14		0.0000	4.133		6145	0.53	VV	? 5.70
15		0.0000	4.195		3492	0.54	VV	?
16	B-BHC	0.0013	4.356	0.006	1690	0.56	VV	? 12.90
17	G-BHC	0.0055	4.750	0.240	21386	0.61	VV	7.10
18		0.0000	4.881		2932	0.62	VV	? 12.20
19		0.0000	5.044		3894	0.64	VV	? 6.20
20	D-BHC	0.0045	5.293	0.093	14906	0.68	VV	4.40
21		0.0000	5.568		3738	0.71	VV	7.20
22		0.0000	5.717		2235	0.73	VV	? 6.90
23		0.0000	5.859		4189	0.75	VV	? 4.20
24		0.0000	5.931		2938	0.76	VV	? 4.05
25		0.0000	6.151		41168	0.78	VV	5.00
26		0.0000	6.480		16131	0.83	VV	4.30
27	HEPT	0.0059	6.736	0.076	13633	0.86	VV	4.55
28		0.0000	6.908		3890	0.88	VV	? 4.85
29		0.0000	7.186		1991	0.92	VV	? 5.55
30		0.0000	7.379		8710	0.94	VV	4.30
[illegible]		0.0000	7.526		7165	0.96	VV	4.25
[illegible]		0.0000	7.638		6934	0.98	VV	? 5.40
33	ALDRIN	0.0013	7.832	0.002	4454	1.00	VV	5.80
34		0.0000	8.114		9721	1.04	VV	4.35
35		0.0000	8.246		21006	1.05	VV	5.40
36		0.0000	8.562		13822	1.09	VV	5.00
37		0.0000	8.669		3414	1.11	VV	? 4.80
38		0.0000	8.865		3884	1.13	VV	4.25
39		0.0000	9.111		1051	1.16	VV	? 4.45
40	HEPT EP	0.0026	9.475	0.085	6703	1.21	VV	4.25
41		0.0000	9.641		10804	1.23	VV	4.00
42		0.0000	9.775		13549	1.25	VV	4.25
43		0.0000	10.055		3346	1.28	VV	? 8.60
44		0.0000	10.429		14388	1.33	VV	4.05
45		0.0000	10.654		2730	1.36	VV	? 6.90
46	A ENDO	0.0012	10.759	-0.011	3132	1.37	VV	? 5.20
47		0.0000	10.966		1580	1.40	VV	4.30
48		0.0000	11.075		1829	1.41	VB	4.75
49	DIELDRIN	0.0011	11.838	-0.012	2730	1.51	VV	3.95
50		0.0000	11.999		1846	1.53	VV	4.25
51	DDE	0.0020	12.241	0.111	5428	1.56	VB	4.35
52	ENDRIN	0.0006	12.689	-0.011	1230	1.62	BB	4.60
53	B ENDO	0.0015	13.362	0.222	3500	1.71	BB	4.70
54	END ALD	0.0016	14.454	0.444	3085	1.85	BV	4.25
55	ENDO SO4	0.0008	14.587	-0.453	1620	1.86	VB	4.45
56	DDT	0.0037	15.570	0.080	6403	1.99	VB	5.20
57	ENDRIN K	0.0013	17.239	0.349	3376	2.20	BB	? 22.70
58	METHOXY	0.0017	18.476	0.196	1142	2.36	BB	4.75
59		0.0000	19.339		1296	2.47	BV	4.55
60	SURROGATE	0.0240	19.645	-0.105	54353	2.51	VV	4.50
[illegible]		0.0000	20.237		1060	2.58	T	? 16.80
62		0.0000	21.744		8003	2.78	BB	5.00
63		0.0000	23.445		2697	2.99	BB	?
64		0.0000	25.362		5470	3.24	BV	? 24.70
65		0.0000	26.789		5763	3.42	VB	? 28.80
66		0.0000	28.772		4754	3.67	BV	? 23.60
[illegible]		0.0000	30.090		1603	3.84	VB	? 9.00
TOTALS:		0.0245		1.352	3980390			

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Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
08-145
15101340

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/24/85

Date Analyzed: 11/11/85

Dil Factor: 5

CAS Number	DL X 5	ug/PUF
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4,4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4,4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4,4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	0.1
11104-28-2	Aroclor-1221	0.1
11141-16-5	Aroclor-1232	0.1
53469-21-9	Aroclor-1242 5	~~0.1~~ ~~1.5~~ 0.84 FJ
12672-29-6	Aroclor-1248	0.1
11097-69-1	Aroclor-1254	0.2
11096-82-5	Aroclor-1260	0.2

V_i = Volume of extract injected (ul)

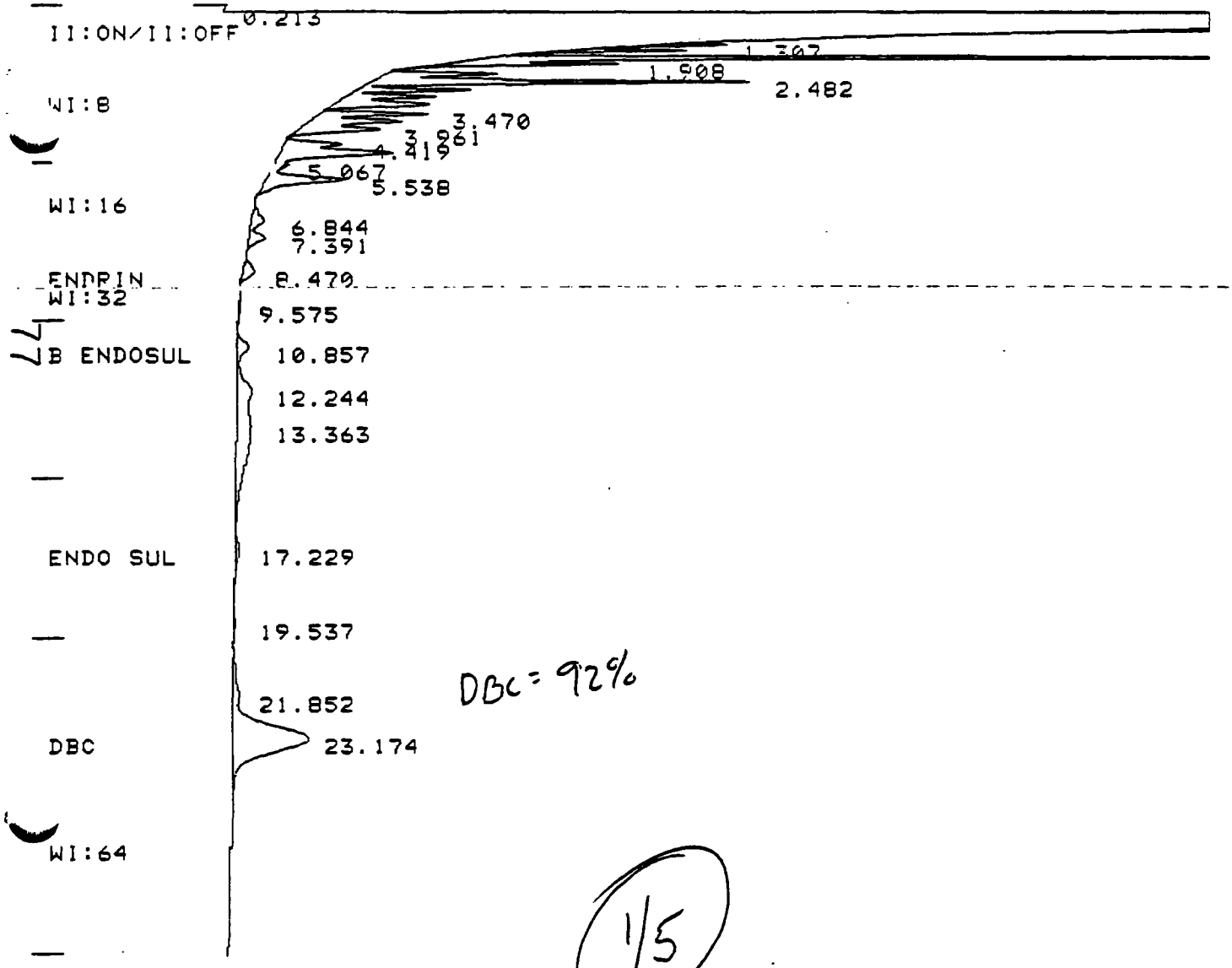
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



1/5

68-145

TITLE: RUN # 20 1:19 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101340 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		153929	VV	?	2.00
2		0.0000	0.355		145283	VB	?	5.40
3		0.0000	0.479		17150	BB	?	0.65
4		0.0000	0.682		29385	BV		2.35
5		0.0000	0.822		4796	VB		1.90
6		0.0000	1.307		1014	BV		2.90
7		0.0000	1.487		1768	VB		3.50
8		0.0000	1.716		18679	BV		4.20
9		0.0000	1.908		2727	VV		3.30
10		0.0000	2.215		1696	VV	?	7.50
11		0.0000	2.482		5703	VV		6.10
12	D-BHC	0.0030	2.719	-0.021	1709	VV		5.55
13	ALDRIN	0.0020	2.918	-0.092	1363	VV		6.00
14		0.0000	3.154		1474	VV		9.05
15		0.0000	3.470		1659	VV		7.40

varian /sunnyvale,calif.p/n 03-906362-00

WI:64

1/5

Factor = ~~0.069~~ 0.070
peaks missing at 1.72 min
2.35 & 1.20 min + 5.06 min.
in sample

12:42 = ~~4.26~~ 2.39 Ht. x ~~.069~~ .070 µg/ml std. x 1ml x 5 = ~~1.5~~ 0.84 µg
KS

68-145

TITLE: RUN # 20 1:19 11 NOV 85

CHANNEL NO: 2 SAMPLE: 15101340 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.280		153929	VV	?	2.00
2		0.0000	0.355		145283	VB	?	5.40
3		0.0000	0.479		17150	BB	?	0.65
4		0.0000	0.682		29385	BV		2.35
5		0.0000	0.822		4796	VB		1.90
6		0.0000	1.307		1014	BV		2.90
7		0.0000	1.487		1768	VB		3.50
8		0.0000	~~1.716~~	H. ~~4.26~~ 2.39	~~18679~~	BV		4.20
9		0.0000	1.908		2727	VV		3.30
10		0.0000	2.215		1696	VV	?	7.50
11		0.0000	2.482		5703	VV		6.10
12	D-BHC	0.0030	2.719	-0.021	1709	VV		5.55
13	ALDRIN	0.0020	2.918	-0.092	1363	VV		6.00
4		0.0000	3.154		1474	VV		9.05
15		0.0000	~~3.470~~		~~1659~~	VV		7.40
16		0.0000	3.699		1419	VV		9.00
17		0.0000	3.961		1247	VV		8.55
18		0.0000	4.419		874	VV	?	10.40
19		0.0000	4.700		1708	VV		13.30
20	A ENDOSUL	0.0038	5.538	-0.242	1167	VB		12.80
21	DIELDRIN	0.0008	6.844	-0.266	187	BV		24.40
22		0.0000	7.391		251	VB		14.50
23	ENDRIN	0.0010	8.470	-0.160	178	BB	?	24.95
24	B ENDOSUL	0.0011	10.857	0.257	165	BV		26.20
25		0.0000	12.244		223	VV	?	41.00
26		0.0000	13.363		215	VV		68.80
27	DBC	0.0183	23.174	0.124	1151	VB		55.10
TOTALS:		0.0300		-0.400	397120			

DETECTED PKS: 33 REJECTED PKS: 6

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 7.3 OFFSET: -81

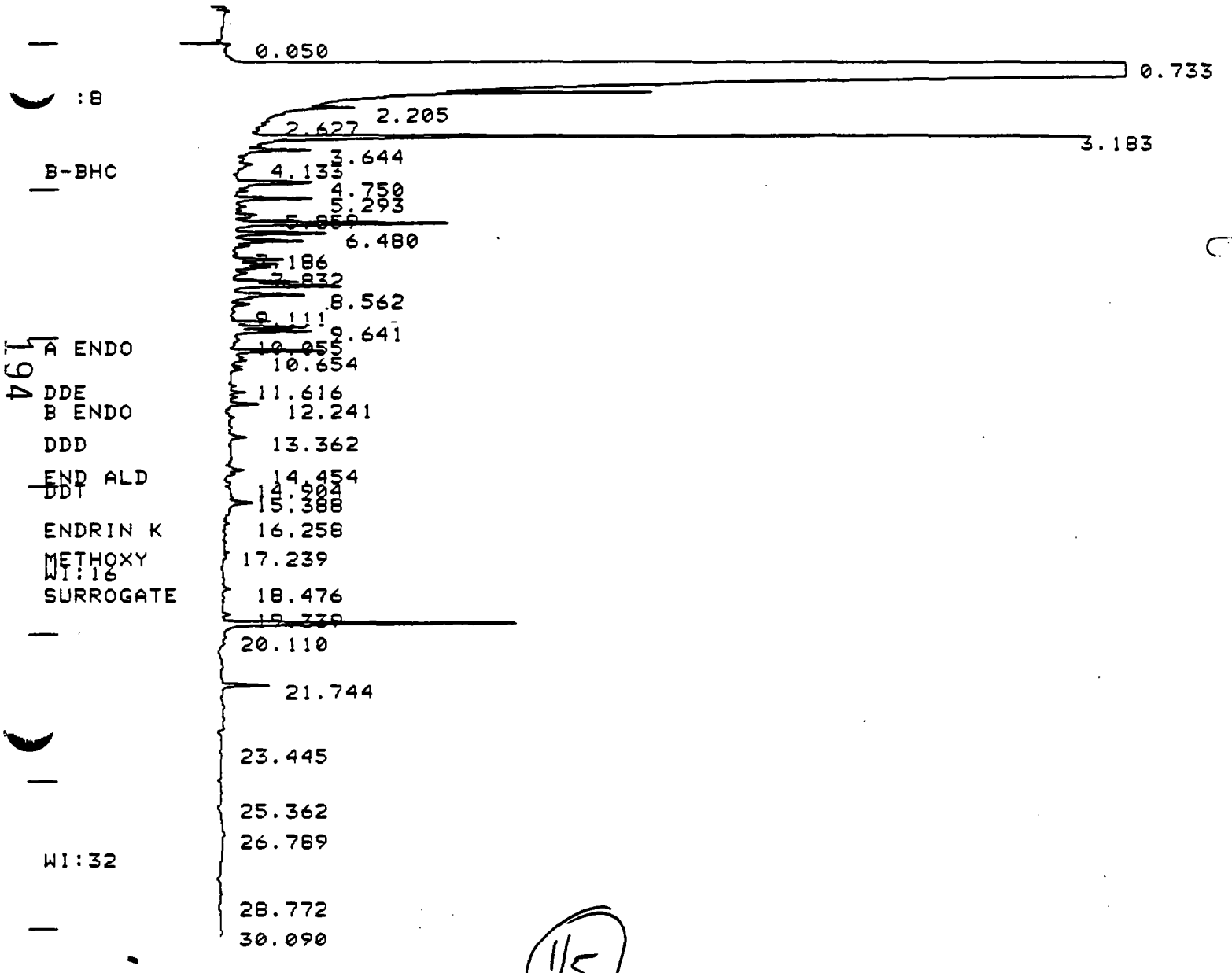
RACK: 1 VIAL: 6 INJ: 1

SAVED FILE: P1247

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale, calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 32 ZERO: 10% 5 MIN/TICK



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08-145

TITLE: RUN# 8 18:49 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15101340 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE		W1/2 (SEC)
1		0.0000	0.050		2423	0.01	BB	?	3.00
2		0.0000	0.733		1958870	0.09	BV		7.75
3		0.0000	0.912		1234230	0.12	VV	?	19.95
4		0.0000	1.701		83646	0.22	VV	?	5.85
5		0.0000	1.846		69573	0.24	VV	?	0.30
6		0.0000	2.205		35736	0.28	VV	?	5.40
7		0.0000	2.389		20139	0.30	VV	?	
8		0.0000	2.627		7972	0.33	VV	?	
9		0.0000	2.797		10352	0.36	VV	?	4.00
10		0.0000	2.972		6999	0.38	VV	?	4.15
11		0.0000	3.183		1334[illegible]	0.41	VV		3.30

varian / sunnyvale, calif p n 039063

08-145

TITLE: RUN# 8 18:49 12 NOV 85

CHANNEL NO: 1 SAMPLE: 15101340 METHOD: 6B P

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	AREA COUNTS	RRT	SEP CODE	W1/2 (SEC)
1		0.0000	0.050		2423	0.01	BB ?	3.00
2		0.0000	0.733		1958870	0.09	BV	7.75
3		0.0000	0.912		1234230	0.12	VV ?	19.95
4		0.0000	1.701		83646	0.22	VV ?	5.85
5		0.0000	1.846		69573	0.24	VV ?	0.30
6		0.0000	2.205		35736	0.28	VV ?	5.40
7		0.0000	2.389		20138	0.30	VV ?	
8		0.0000	2.627		7972	0.33	VV ?	
9		0.0000	2.797		10382	0.36	VV ?	4.00
10		0.0000	2.972		6999	0.38	VV ?	4.15
11		0.0000	3.183		133463	0.41	VV	3.30
12	A-BHC	0.0039	3.644	-0.056	16836	0.46	VV ?	2.75
13		0.0000	3.938		2169	0.50	VV ?	5.00
14		0.0000	4.133		6145	0.53	VV ?	5.70
15		0.0000	4.195		3492	0.54	VV ?	
16	B-BHC	0.0013	4.356	0.006	1690	0.56	VV ?	12.90
17	G-BHC	0.0055	4.750	0.240	21386	0.61	VV	7.10
18		0.0000	4.881		2932	0.62	VV ?	12.20
19		0.0000	5.044		3894	0.64	VV ?	6.20
20	D-BHC	0.0045	5.293	0.093	14906	0.68	VV	4.40
21		0.0000	5.568		3738	0.71	VV	7.20
22		0.0000	5.717		2235	0.73	VV ?	6.90
23		0.0000	5.859		4189	0.75	VV ?	4.20
24		0.0000	5.931		2938	0.76	VV ?	4.05
25		0.0000	6.151		41168	0.78	VV	5.00
26		0.0000	6.480		16131	0.83	VV	4.30
27	HEPT	0.0059	6.736	0.076	13633	0.86	VV	4.55
28		0.0000	6.908		3890	0.88	VV ?	4.85
29		0.0000	7.186		1991	0.92	VV ?	5.55
30		0.0000	7.379		8710	0.94	VV	4.36
31		0.0000	7.526		7165	0.96	VV	4.25
32		0.0000	7.638		6934	0.98	VV ?	5.40
33	ALDRIN	0.0013	7.832	0.002	4454	1.00	VV	5.80
34		0.0000	8.114		9721	1.04	VV	4.35
35		0.0000	8.246		21006	1.05	VV	5.40
36		0.0000	8.562		13822	1.09	VV	5.00
37		0.0000	8.669		3414	1.11	VV ?	4.80
38		0.0000	8.865		3884	1.13	VV	4.25
39		0.0000	9.111		1051	1.16	VV ?	4.45
40	HEPT EP	0.0026	9.475	0.085	6703	1.21	VV	4.25
41		0.0000	9.641		10804	1.23	VV	4.00
42		0.0000	9.775		13549	1.25	VV	4.25
43		0.0000	10.055		3346	1.28	VV ?	8.60
44		0.0000	10.429		14388	1.33	VV	4.05
45		0.0000	10.654		2730	1.36	VV ?	6.90
46	A ENDO	0.0012	10.759	-0.011	3132	1.37	VV ?	5.20
47		0.0000	10.966		1580	1.40	VV	4.30
48		0.0000	11.075		1829	1.41	VB	4.75
49	DIELDRIN	0.0011	11.838	-0.012	2730	1.51	VV	3.95
50		0.0000	11.999		1846	1.53	VV	4.25
51	DDE	0.0020	12.241	0.111	5428	1.56	VB	4.35
52	ENDRIN	0.0006	12.689	-0.011	1230	1.62	BB	4.60
53	B ENDO	0.0015	13.362	0.222	3500	1.71	BB	4.70
54	END ALD	0.0016	14.454	0.444	3085	1.85	BV	4.25
55	ENDO SO4	0.0008	14.587	-0.453	1620	1.86	VB	4.45
56	DDT	0.0037	15.570	0.080	6403	1.99	VB	5.20
57	ENDRIN K	0.0013	17.239	0.349	3376	2.20	BB ?	22.70
58	METHOXY	0.0017	18.476	0.196	1142	2.36	BB	4.75
59		0.0000	19.339		1296	2.47	BV	4.55
60	SURROGATE	0.0240	19.645	-0.105	54353	2.51	VV	4.50
1		0.0000	20.237		1060	2.58	T ?	16.80
62		0.0000	21.744		8003	2.78	BB	5.00
63		0.0000	23.445		2697	2.99	BB ?	
64		0.0000	25.362		5470	3.24	BV ?	24.70
65		0.0000	26.789		5763	3.42	VB ?	28.80
66		0.0000	28.772		4754	3.67	BV ?	23.60
67		0.0000	30.090		1603	3.84	VB ?	9.00
TOTALS:		0.0645		1.256	3980380			

Yvalle call p.n. 03 62.00
195
(VA) version

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
09-002 filter
1510107 2

RWL

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10-16-85

Date Analyzed: 10-21-85

Conc/Dil Factor: 1

CAS Number	DLx 1	ug/l or ug/Kg PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	0.1
11104-28-2	Aroclor-1221	0.1
11141-16-5	Aroclor-1232	0.1
53469-21-9	Aroclor-1242	0.1
12672-29-6	Aroclor-1248	0.1
11097-69-1	Aroclor-1254	0.2
11096-82-5	Aroclor-1260	0.2

V_i = Volume of extract injected (ul)

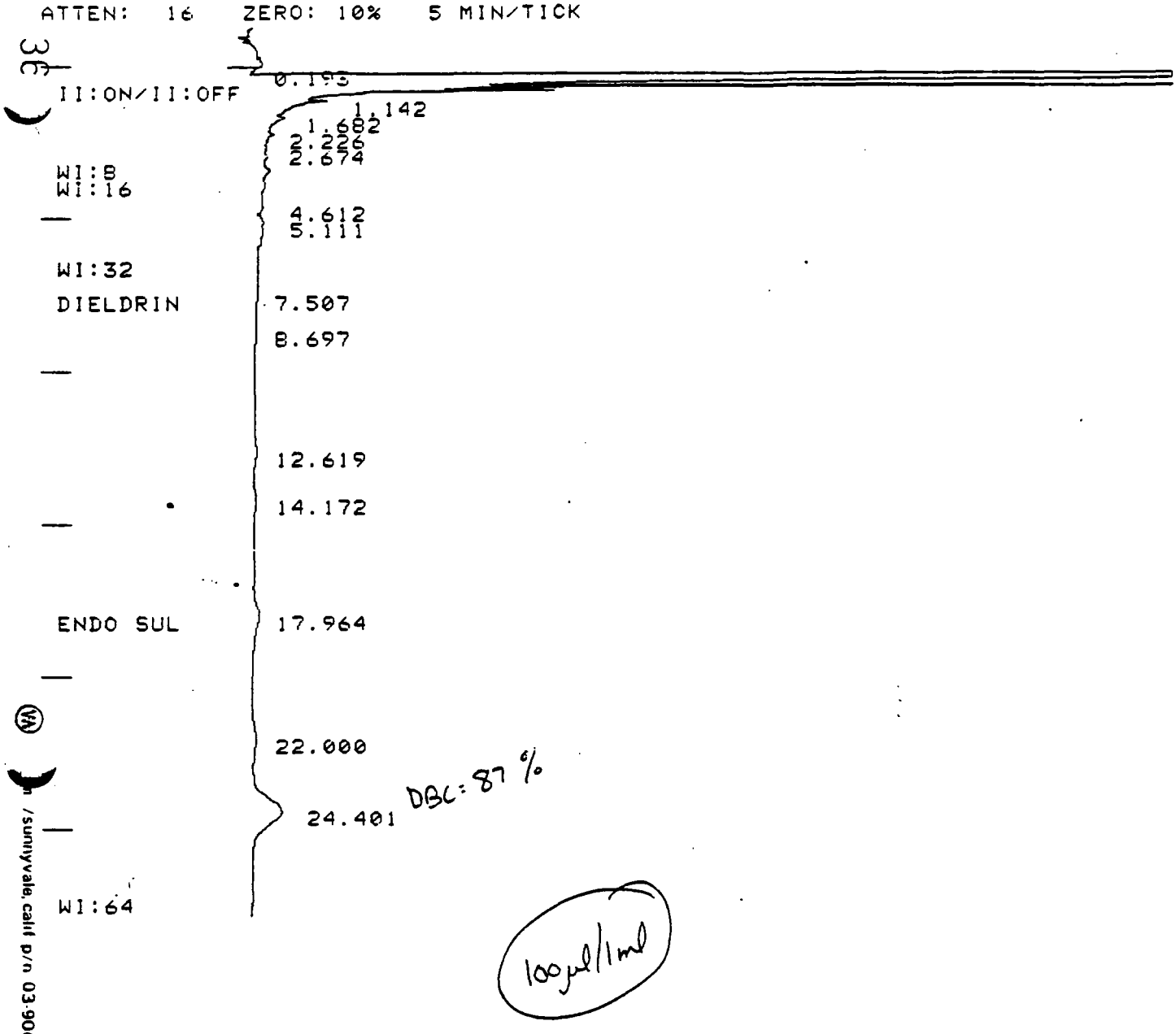
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



/sunnyvale, calif p/n 03-906362-00

09-002 FILTER

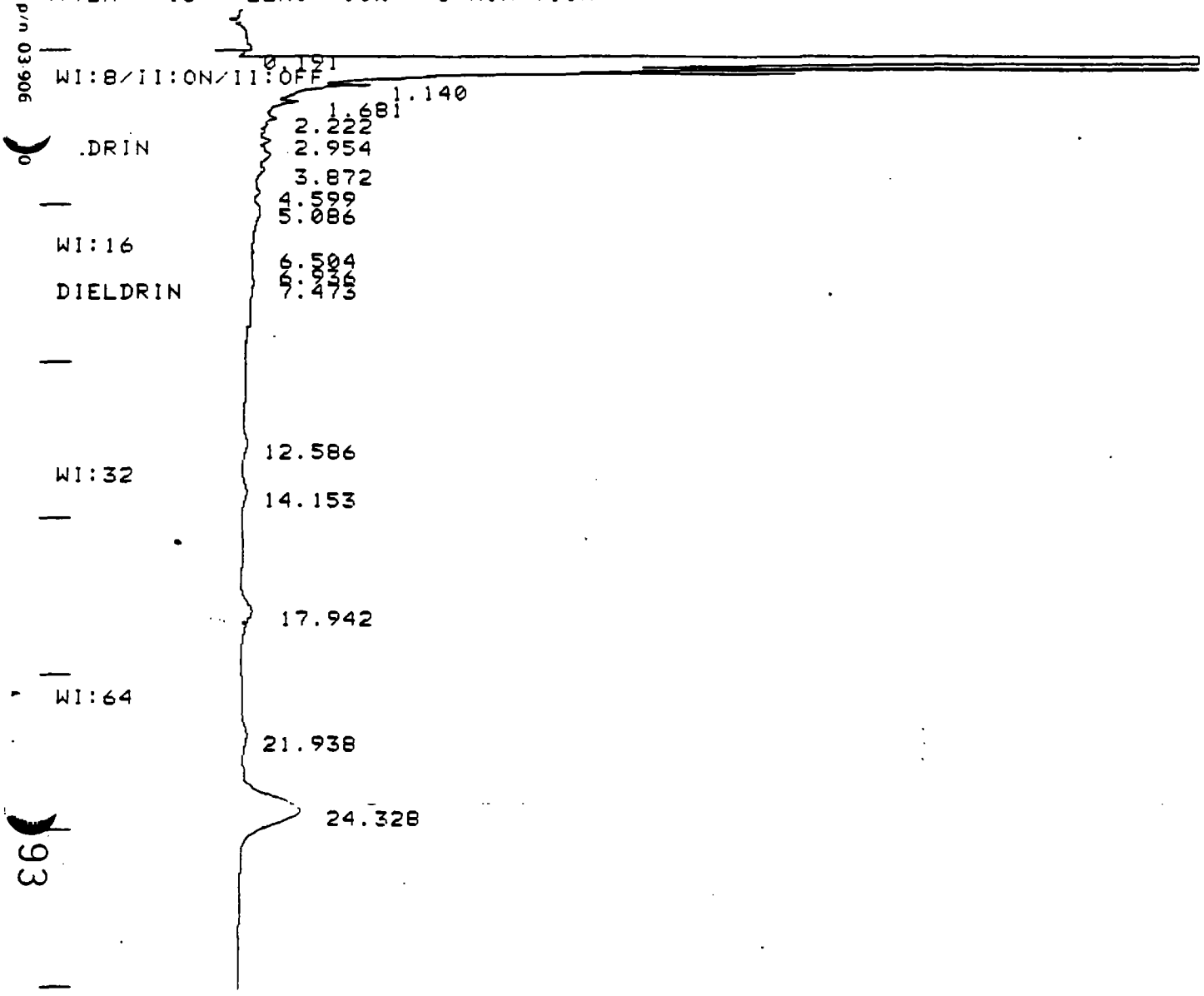
TITLE: RUN # 11 22:11 17 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~07~~1072 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.292		130340	VB	5.75
2		0.0000	0.648		14070	BV	2.20
3		0.0000	0.789		2486	VV	1.85
4		0.0000	0.871		153	T	1.30
5		0.0000	1.142		345	BB	2.80
6		0.0000	1.682		150	BB	4.50
7	ENDO SUL	0.0016	17.964	-0.616	104	BB	46.65
8	DBC	0.0087	24.401	-1.129	453	VB	57.60
TOTALS:		0.0103		-1.745	148101		

DETECTED PKS: 23 REJECTED PKS: 15

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



115

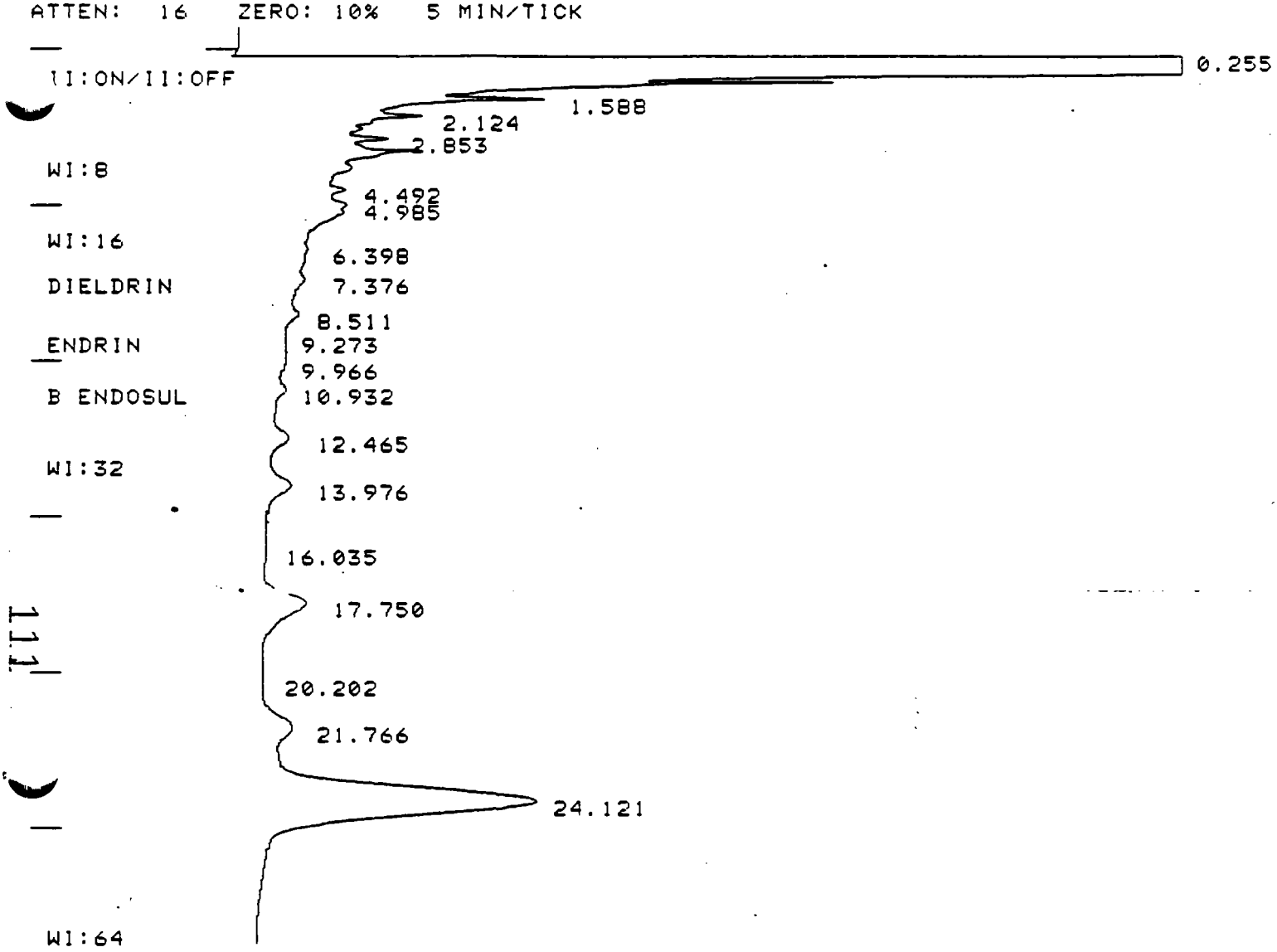
09-002 Filter

TITLE: RUN # 11 15:20 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~05~~10 1072 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.291		130579	VB	6.65
2		0.0000	0.647		28389	BV	2.15
3		0.0000	0.786		4687	VV	1.80
4		0.0000	0.867		212	T	0.80
5		0.0000	1.140		717	BB	2.80
6		0.0000	1.681		301	BB	4.60
7	B-BHC	0.0005	2.222	-0.108	151	BB	5.20
8	HLDRIN	0.0002	2.954	-0.036	144	VV	7.40
9		0.0000	3.391		174	VV	13.95
10	ENDO SUL	0.0023	17.942	-0.033	145	BB	48.60
11	DDE	0.0174	24.328	-1.202	505	VB	56.95
TOTALS:		0.0204		-1.784	166407		

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



111

09-002 Filter
~~08-140~~ KS

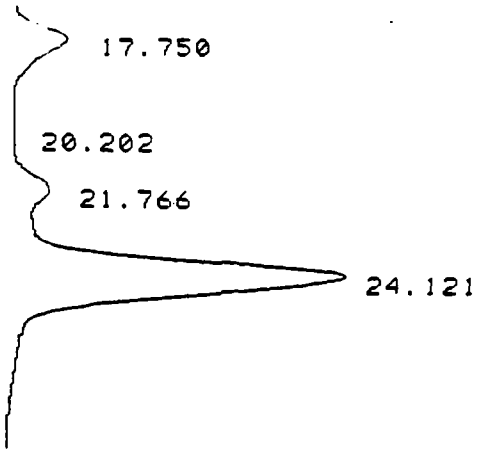
TITLE: RUN # 23 21:56 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15101072 RG1 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.255		141188	BV	?	2.30
2		0.0000	0.322		137202	VB	?	5.80
3		0.0000	0.590		90781	BV	?	1.25
4		0.0000	0.719		22176	VB		1.70
5		0.0000	1.057		3223	BB		2.65
6	A-BHC	0.0013	1.588	0.048	1753	BB		4.90
7		0.0000	2.124		731	BB		5.25
8		0.0000	2.530		133	BV		4.85
9	ALDRIN	0.0010	2.853	-0.137	622	VV		7.40
10		0.0000	3.239		1227	VV		6.15
11		0.0000	3.789		253	VB		10.90
12		0.0000	4.492		[illegible]	BV		10.85
13		0.0000	4.985		[illegible]	[illegible]	?	13.30
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		[illegible]

varian /s ... vale, calif p n ...

111



WI:64

09-002 Filter
~~08-140~~ KS

TITLE: RUN # 23 21:56 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15101072 R61 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.255		141188	BV	?	2.30
2		0.0000	0.322		137202	VB	?	5.80
3		0.0000	0.590		90781	BV	?	1.25
4		0.0000	0.719		22176	VB		1.70
5		0.0000	1.057		3223	BB		2.65
6	A-BHC	0.0013	1.588	0.048	1753	BB		4.90
7		0.0000	2.124		731	BB		5.25
8		0.0000	2.530		133	BV		4.85
9	ALDRIN	0.0010	2.853	-0.137	622	VV		7.40
10		0.0000	3.239		1227	VV		6.15
11		0.0000	3.789		253	VB		10.90
12		0.0000	4.492		286	BV		10.85
13		0.0000	4.985		407	VV	?	13.80
14		0.0000	5.219		401	VB	?	19.55
15	DIELDRIN	0.0005	7.376	-0.024	102	BB		13.45
16		0.0000	8.511		132	BB		17.40
17	B ENDOSUL	0.0009	10.932	-0.248	117	VB		17.90
18		0.0000	12.465		243	BB		28.70
19		0.0000	13.976		333	BB		32.55
20	ENDO SUL	0.0101	17.750	-0.830	642	VB		47.50
21		0.0000	21.766		479	VV	?	49.80
22		0.0000	24.121		4246	VB		58.70
TOTALS:		0.0138		-1.191	406677			

DETECTED PKS: 29 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: -5

SAVED FILE: P1968

IS:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

varian _annyvale, calif p/n 03 906362 00

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
09-002 filter
151010 72

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10-16-85

Date Analyzed: 10-21-85

Conc/Dil Factor: 1

CAS Number	DLX 1	PUF ug/~~l or ug/Kg~~ (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

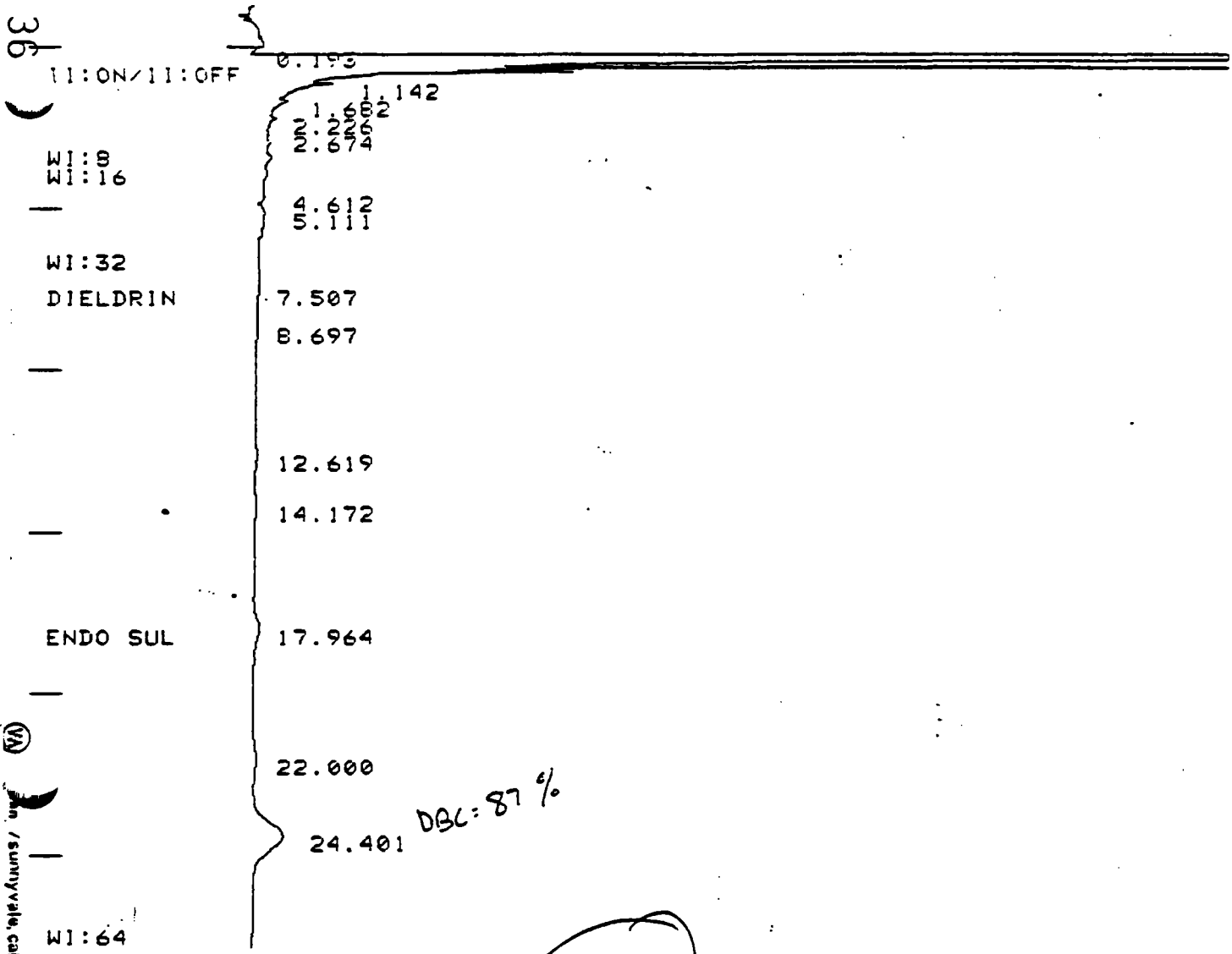
W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 100 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK

36



100µl/1ml

09-002 Filter

TITLE: RUN # 11 22:11 17 OCT 85

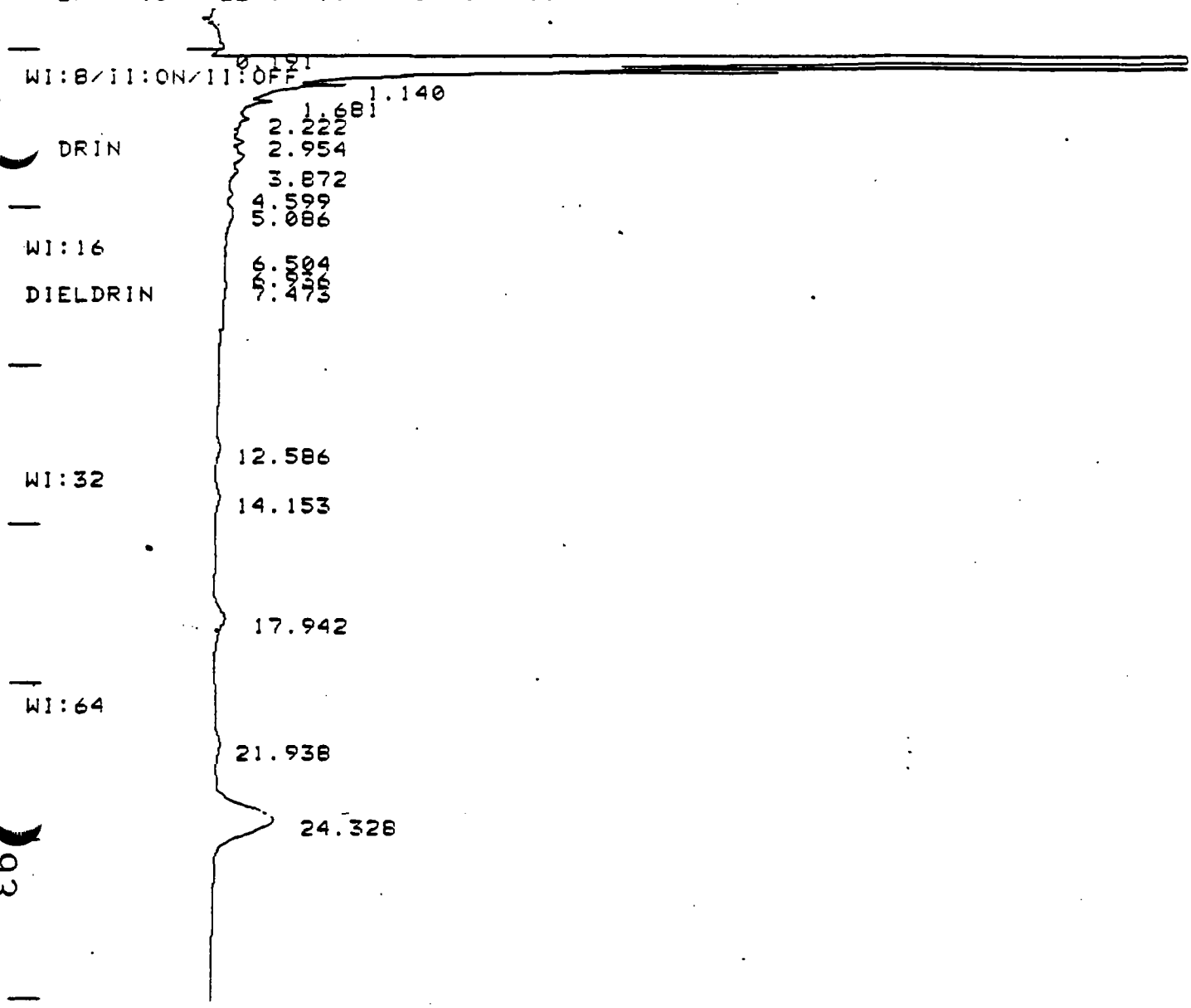
CHANNEL NO: 2 SAMPLE: 15~~07~~10 KS 1072 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.292		130340	VB	5.75
2		0.0000	0.648		14070	BV	2.20
3		0.0000	0.789		2486	VV	1.85
4		0.0000	0.871		153	T	1.30
5		0.0000	1.142		345	BB	2.80
6		0.0000	1.682		150	BB	4.50
7	ENDO SUL	0.0016	17.964	-0.616	104	BB	46.65
8	DBC	0.0087	24.401	-1.129	453	VB	57.60
TOTALS:		0.0103		-1.745	148101		

DETECTED PKS: 23 REJECTED PKS: 15

VA /sunnyvale, calif. p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



93

1/5

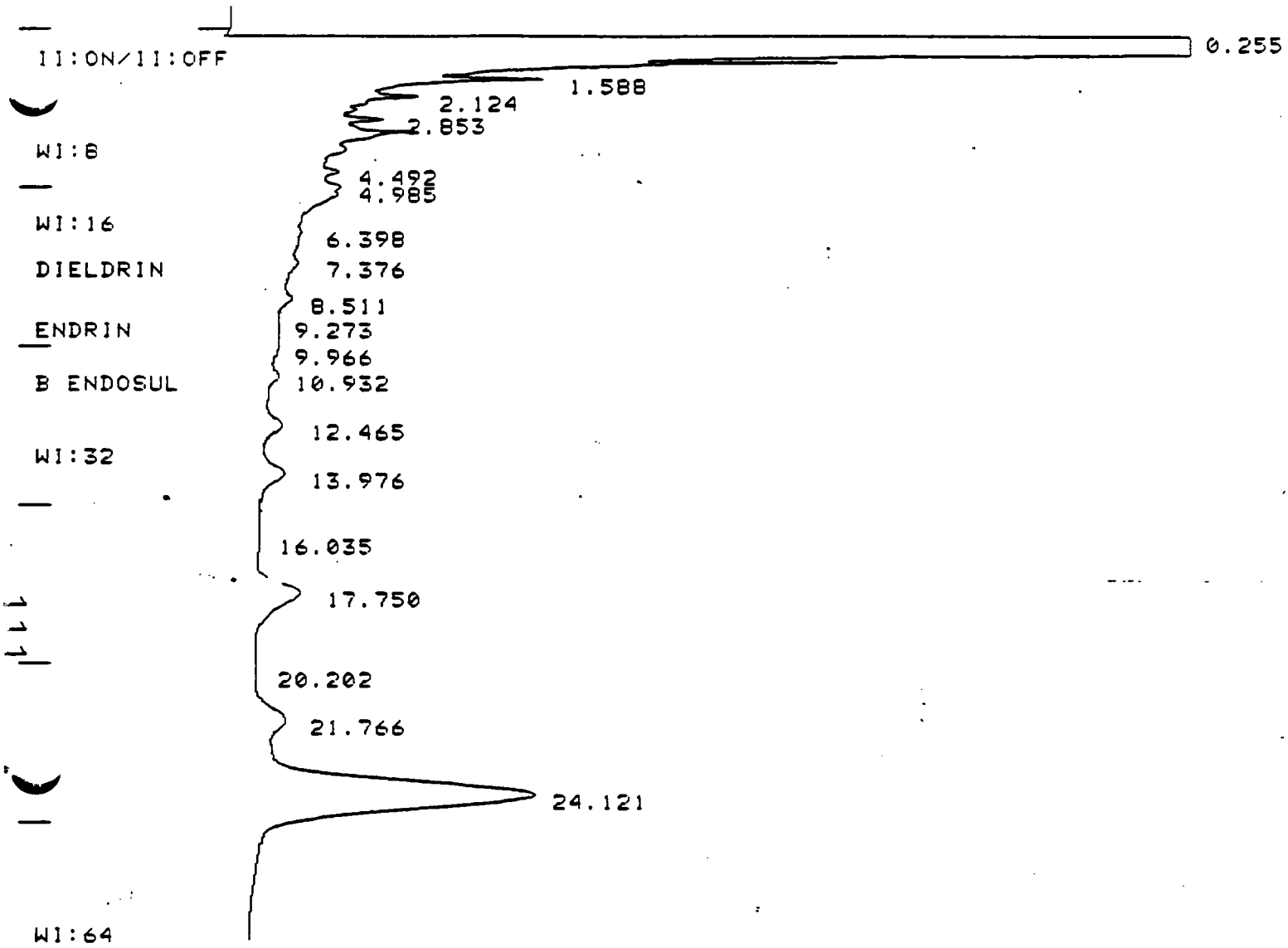
09-002 Filter

TITLE: RUN # 11 15:20 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15~~09~~10 1072 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.291		130579	VB	6.65
2		0.0000	0.647		28389	BV	2.15
3		0.0000	0.786		4687	VV	1.80
4		0.0000	0.867		212	T	0.80
5		0.0000	1.140		717	BB	2.80
6		0.0000	1.681		301	BB	4.60
7	B-BHC	0.0005	2.222	-0.108	151	BB	5.20
8	ALDRIN	0.0002	2.954	-0.036	144	VV	7.40
9		0.0000	3.391		174	VV	13.95
10	ENDO SUL	0.0023	17.942	-0.[illegible]	145	BB	48.60
11	DBI	0.0174	24.328	-1.202	[illegible]	[illegible]	[illegible]
TOTAL	[illegible]	[illegible]		[illegible]	[illegible]		

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK

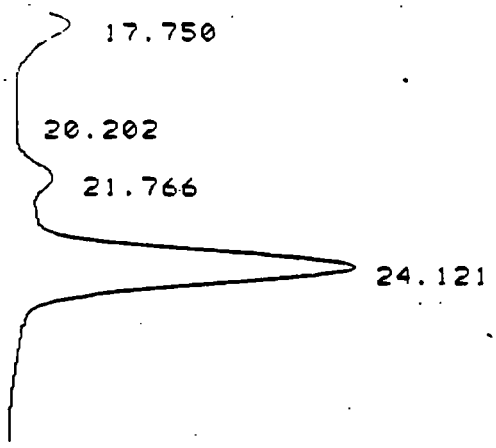


09-002 Filter
~~08-140~~ KS

TITLE: RUN # 23 21:56 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15101072 RGI METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.255		141188	BV	?	2.30
2		0.0000	0.322		137202	VB	?	5.80
3		0.0000	0.590		90781	BV	?	1.25
[illegible]		0.0000	0.719		22176	VB		1.70
[illegible]		0.0000	1.057		3223	BB		2.65
6	A-BHC	0.0013	1.588	0.048	1753	BB		4.90
7		0.0000	2.124		731	BB		5.25
8		0.0000	2.550		155	BV		4.95
9	[illegible]	0.0010	2.853	-0.137	622	[illegible]		7.40
10		0.0000	3.239		1227	[illegible]		[illegible]
11		0.0000	3.769		255	[illegible]		[illegible]
12		0.0000	4.492		155	B		[illegible]
13		[illegible]	[illegible]		[illegible]			[illegible]



09-002 Filter
~~08-140~~ KS

TITLE: RUN # 23 21:56 21 OCT 85

CHANNEL NO: 2 SAMPLE: 15101072 R61 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.255		141188	BV	?	2.30
2		0.0000	0.322		137202	VB	?	5.80
3		0.0000	0.590		90781	BV	?	1.25
4		0.0000	0.719		22176	VB		1.70
		0.0000	1.057		3223	BB		2.65
6	A-BHC	0.0013	1.588	0.048	1753	BB		4.90
7		0.0000	2.124		731	BB		5.25
8		0.0000	2.530		133	BV		4.85
9	ALDRIN	0.0010	2.853	-0.137	622	VV		7.40
10		0.0000	3.239		1227	VV		6.15
11		0.0000	3.789		253	VB		10.90
12		0.0000	4.492		286	BV		10.85
13		0.0000	4.985		407	VV	?	13.80
14		0.0000	5.219		401	VB	?	19.55
15	DIELDRIN	0.0005	7.376	-0.024	102	BB		13.45
16		0.0000	8.511		132	BB		17.40
17	B ENDOSUL	0.0009	10.932	-0.248	117	VB		17.90
18		0.0000	12.465		243	BB		28.70
19		0.0000	13.976		333	BB		32.55
20	ENDO SUL	0.0101	17.750	-0.830	642	VB		47.50
21		0.0000	21.766		479	VV	?	49.80
22		0.0000	24.121		4246	VB		58.70
TOTALS:		0.0138		-1.191	406677			

DETECTED PKS: 29 REJECTED PKS: 7

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 1.2 OFFSET: -5

SAVED FILE: F196B

LS:
2 UL INJECTION
1.5%SP2250 1.95%SP2401
GC =2

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
Filter - 06F

15091814

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/16/85

Date Analyzed: 10/22/85

Conc/Dil Factor: 1

CAS Number		ug/L ~~or ug/Kg~~ (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

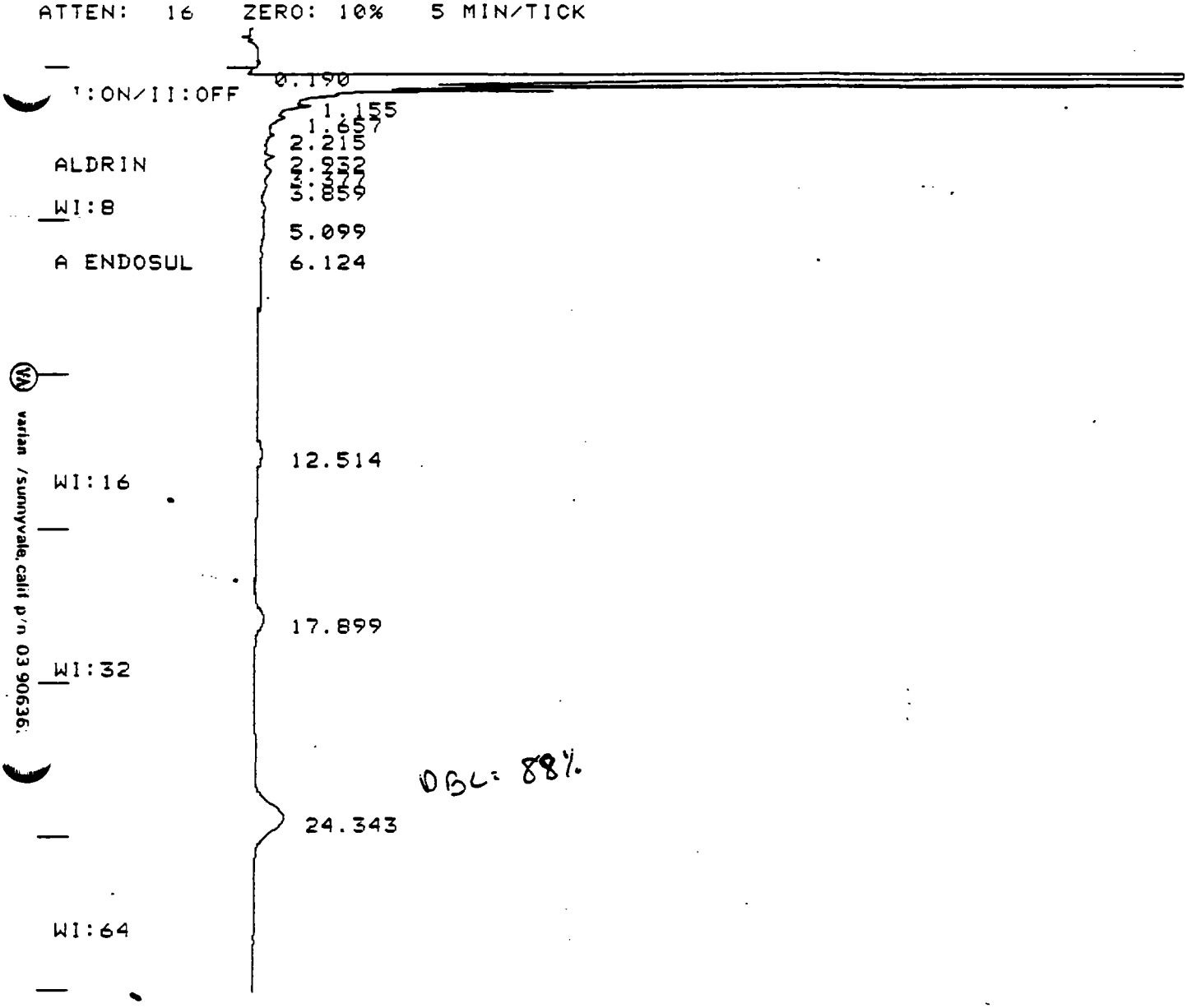
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_t 1,000 V_i 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100µl/1ml

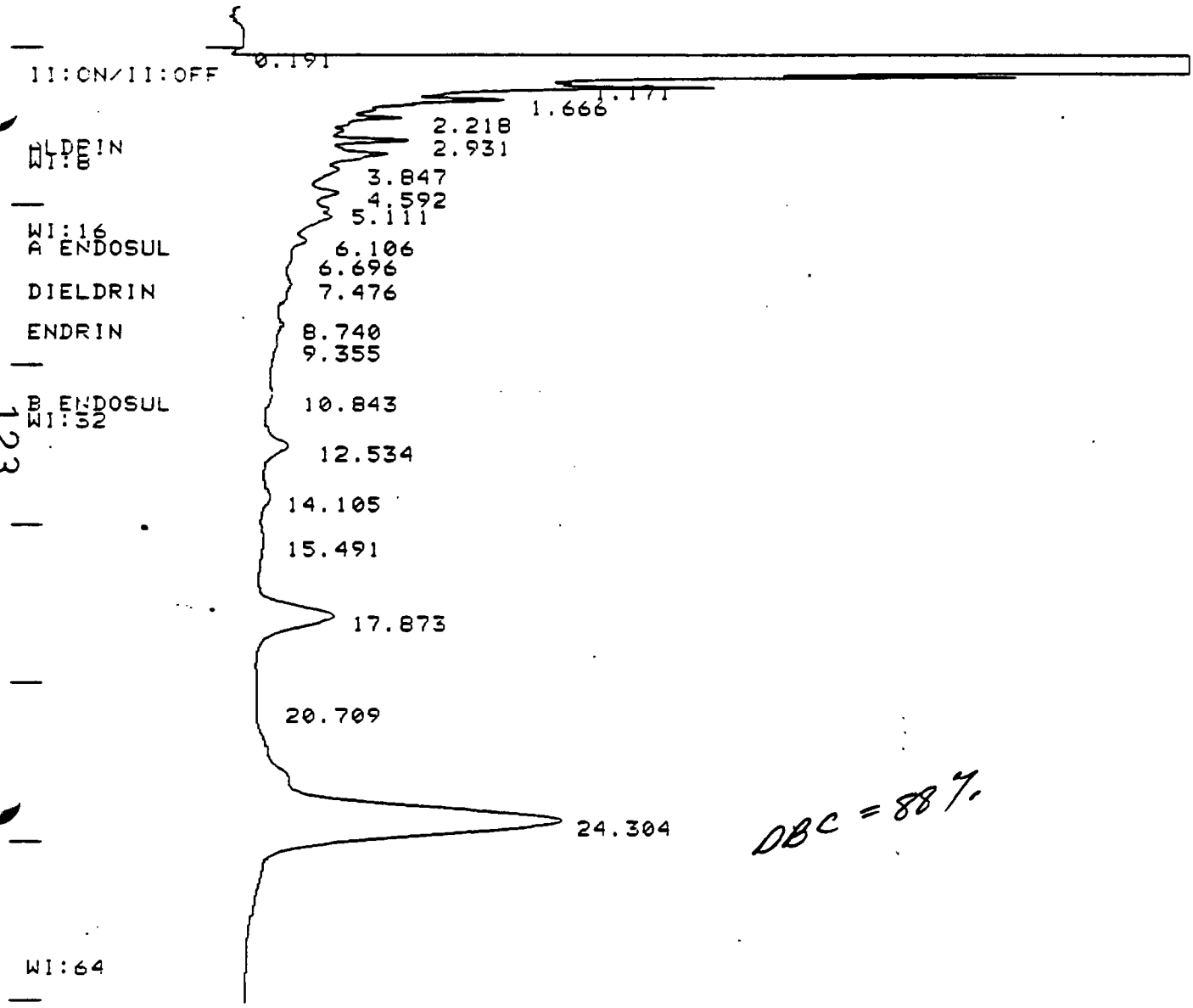
-06F

TITLE: RUN # 31 Filter 9:17 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091814 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.286		124378	VB	5.45
2		0.0000	0.643		14027	BV	2.15
3		0.0000	0.783		2867	VB	2.15
4		0.0000	0.919		136	BB	1.30
5		0.0000	1.274		298	VB	3.10
6		0.0000	1.657		118	BB	5.65
7	ALDRIN	0.0002	2.932	-0.055	126	BV	7.60
8		0.0000	3.377		107	VV	4.90
9	ENDO SUL	0.0020	17.899	-0.481	129	BB	43.80
10	DBL	0.0088	24.343	-1.157	458	BB	52.65

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



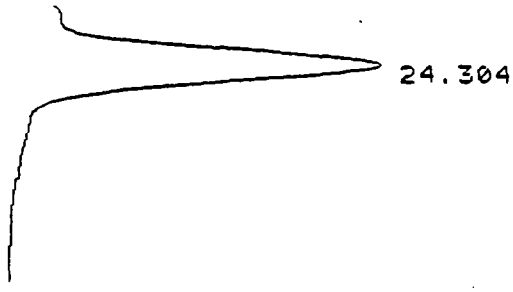
DBC = 88%

123

TITLE: RUN # 31 Filter -06F 2:23 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091814 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.274		134004	VV	?	2.80
2		0.0000	0.303		127191	VV	?	2.40
3		0.0000	0.340		112457	VB	?	2.00
4		0.0000	0.647		94495	BV	?	1.35
5		0.0000	0.787		29329	VB		2.25
6		0.0000	0.945		4464	BB		2.60
7		0.0000	1.171		543	BV		3.30
8		0.0000	1.277		3191	VB		3.30
9		0.0000	1.666		1426	BV		6.25
10		0.0000	1.794		105	T		1.15
11	3-3-1	0.0001	1.972	-0.009	139	BB		3.05
12	3-3-1	0.0024	2.218	-0.112	768	BV		5.15



I:64

varian /sunnyvale,calif.p/n 03-906362 00

TITLE: RUN # 31 Filter -06F 2:23 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091814 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.274		134004	VV	?	2.80
2		0.0000	0.303		127191	VV	?	2.40
3		0.0000	0.340		112457	VB	?	2.00
4		0.0000	0.647		94495	BV	?	1.35
5		0.0000	0.787		29329	VB		2.25
6		0.0000	0.945		4464	BB		2.60
7		0.0000	1.171		543	BV		3.30
8		0.0000	1.277		3191	VB		3.30
9		0.0000	1.666		1426	BV		6.25
10		0.0000	1.794		105	T		1.15
11	G-BHC	0.0001	1.972	-0.008	129	BB		3.05
12	B-BHC	0.0024	2.218	-0.112	768	BV		5.15
13	D-BHC	0.0002	2.622	-0.098	139	VV		6.60
14	ALDRIN	0.0019	2.931	-0.059	1181	VV		7.55
15		0.0000	3.358		929	VV		13.20
16		0.0000	3.847		318	VB		8.95
17		0.0000	4.592		441	BV		14.80
18		0.0000	5.111		357	VV	?	14.60
19		0.0000	5.352		432	VV	?	18.50
20	A ENDOSUL	0.0006	6.106	0.146	169	VB		11.30
21	DIELDRIN	0.0005	7.476	0.076	109	BB		17.60
22		0.0000	12.534		335	BB		29.55
23	ENDO SUL	0.0180	17.873	-0.707	1148	BB		42.45
24	DBC	0.0884	24.304	-1.226	4625	VB		58.70
TOTALS:		0.1121		-1.988	518285			

DETECTED PKS: 33 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 98

RACK: 2 VIAL: 15 INJ: 1

SAVED FILE: P1976

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
.C #2

124

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
Filter - 08F

15091815

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/16/85

Date Analyzed: 10/22/85

Conc/Dil Factor: 1

CAS Number		ug/PUF ~~1 or ug/Kg~~ (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

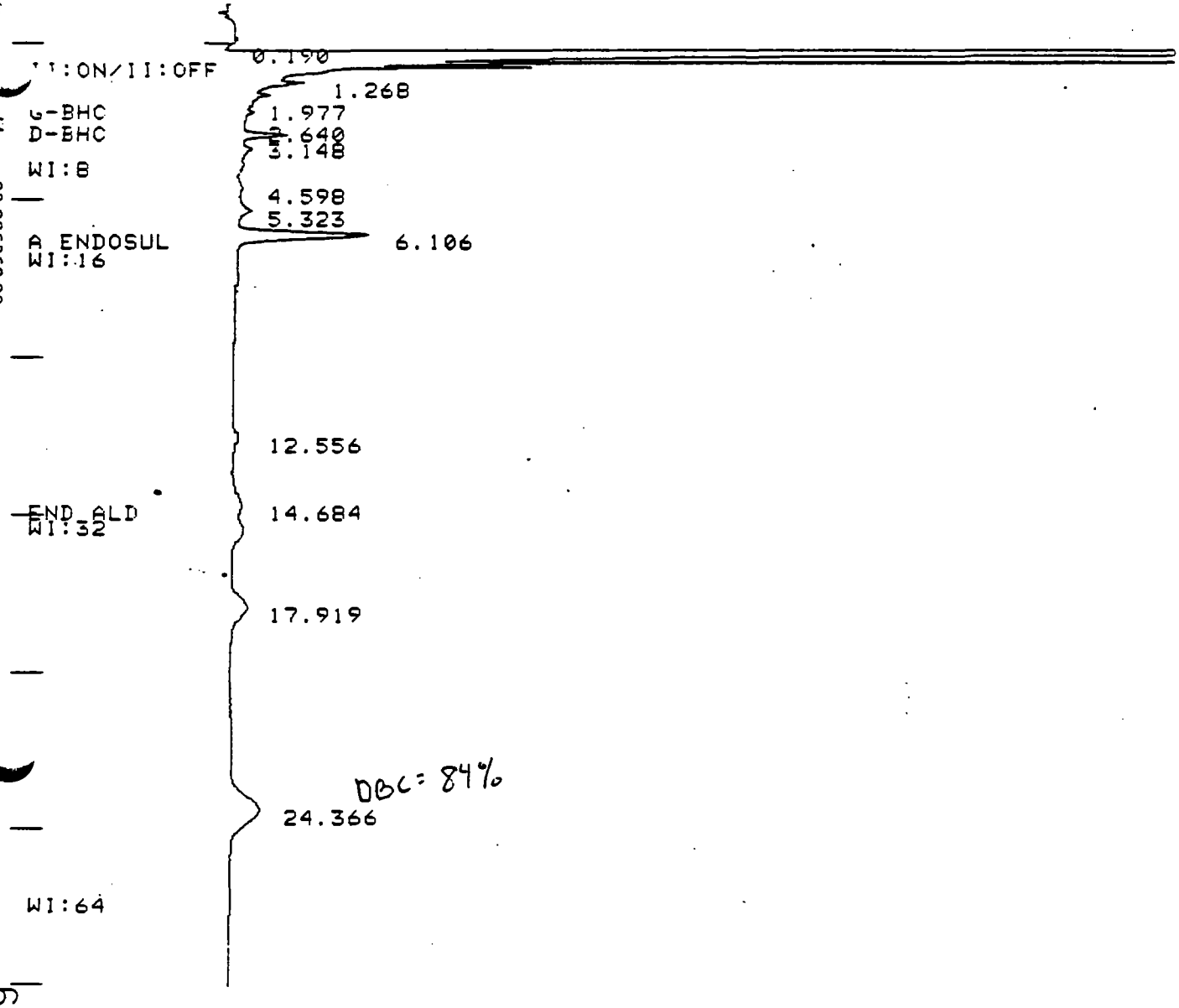
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100 µl/1ml

TITLE: RUN # 32 Filter - 08F 9:50 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091815 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.289		129206	VB		5.65
2		0.0000	0.646		15801	BV		2.15
3		0.0000	0.785		2566	VB		2.10
4		0.0000	1.268		410	BV		3.80
5		0.0000	1.346		235	VB	?	2.35
6		0.0000	1.673		211	BB		4.90
7	ALDRIN	0.0011	2.936	-0.054	655	VV	?	7.35
8		0.0000	3.369		124	VB	?	12.00
9		0.0000	5.323		200	VV	?	13.40
10	A ENDOSUL	0.0065	6.106	0.14[illegible]	1977	[illegible]E		14.50
11	END ALD	0.002[illegible]	14.684	-0.32[illegible]	132	[illegible]	?	25.40

24.366

WI:64

100µl/1ml

TITLE: RUN # 32 filter off 9:50 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091815 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.289		129206	VB		5.65
2		0.0000	0.646		15801	BV		2.15
3		0.0000	0.785		2566	VB		2.10
4		0.0000	1.268		410	BV		3.80
5		0.0000	1.346		235	VB	?	2.35
6		0.0000	1.673		211	BB		4.90
7	ALDRIN	0.0011	2.936	-0.054	655	VV	?	7.35
8		0.0000	3.369		124	VB	?	12.00
9		0.0000	5.323		200	VV	?	13.40
10	A ENDOSUL	0.0068	6.106	0.146	1977	VB		14.50
11	END ALD	0.0026	14.684	-0.326	130	VV	?	25.40
12		0.0000	15.487		171	VB	?	39.40
13	ENDO SUL	0.0039	17.919	-0.661	251	BB		41.75
14	DBC	0.0084	24.366	-1.164	440	BB		56.45
TOTALS:		0.0228		-2.059	152377			

DETECTED PKS: 22 REJECTED PKS: 8

DIVISOR: 1.00000 MULTIPLIER: 1.00000

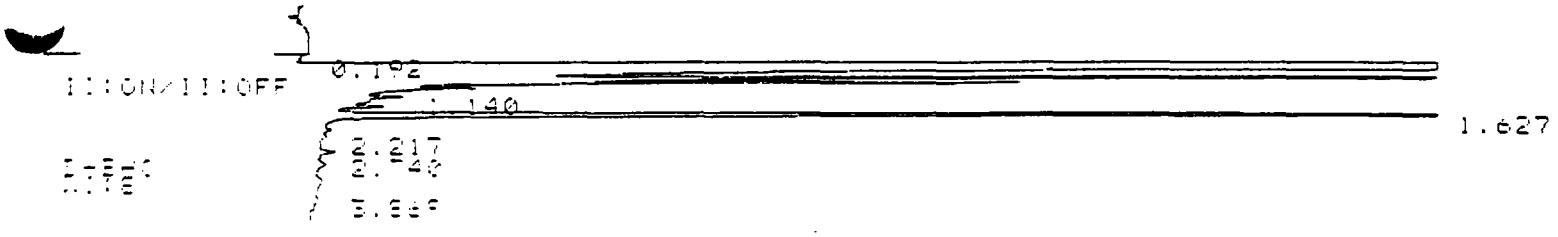
NOISE: 2.4 OFFSET: 71

RACK: 3 VIAL: 2 INJ: 1

SAVED FILE: P1939

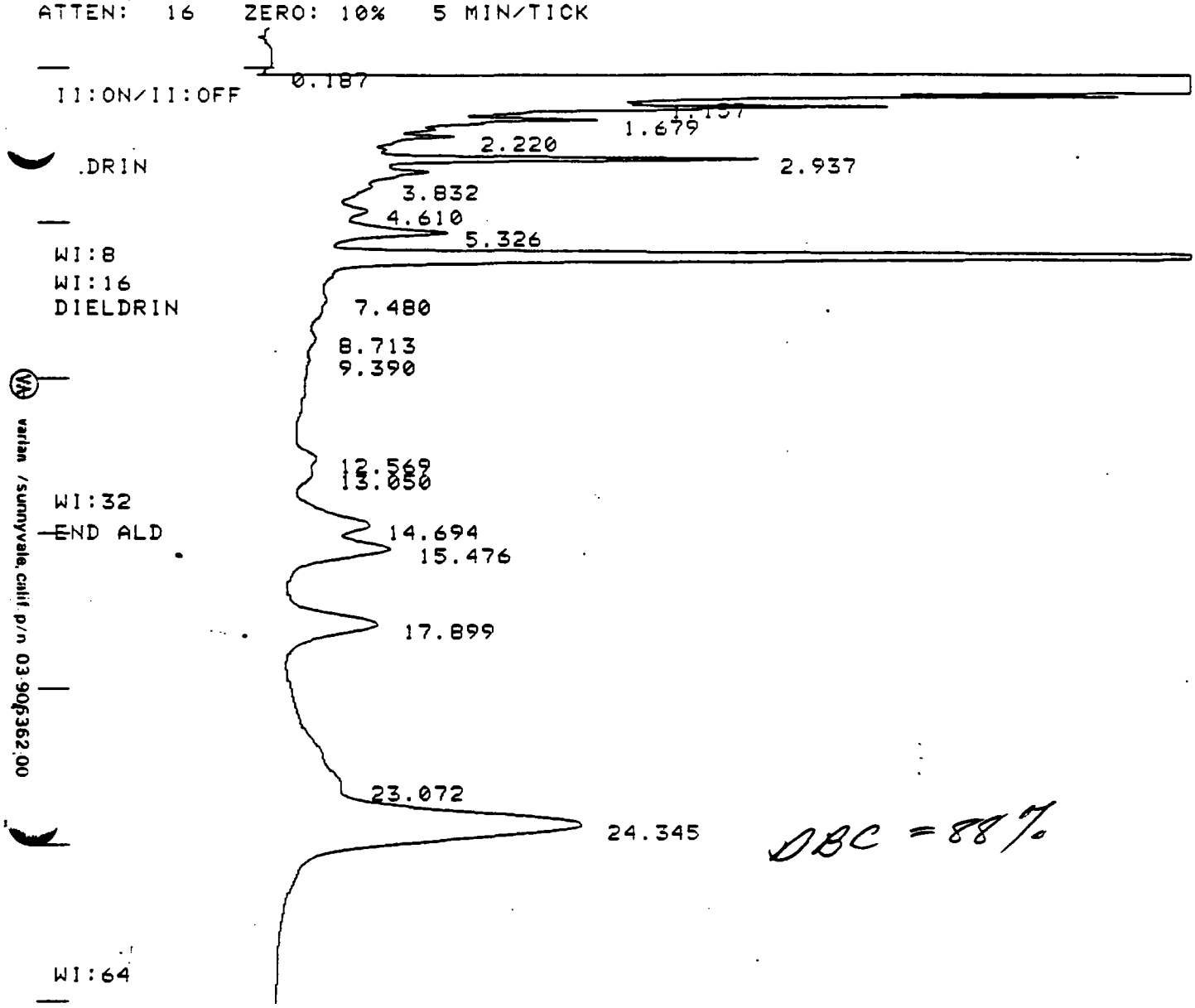
NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



varian / sunnyvale, calif p/n 03-906362-00

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



varian /sunnyvale,calif.p/n 03-906362.00

TITLE: RUN # 32 Filter - 08F 2:55 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091815 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.272		132299	VV	?	2.50
2		0.0000	0.310		117412	VV	?	2.80
3		0.0000	0.345		109301	VB	?	3.40
4		0.0000	0.650		95983	BV	?	1.30
5		0.0000	0.789		26179	VB		2.20
6		0.0000	0.950		4594	BB		2.55
7		0.0000	1.157		436	BV		3.25
8		0.0000	1.273		4734	VV		3.75
9		0.0000	1.349		2243	VB	?	2.75
10		0.0000	1.679		2211	BV		5.20
11		0.0000	1.797		689	VB	?	3.10
12	[illegible]	0.0003	1.997	0.017	252	BV		3.70
13	[illegible]	[illegible]	2.220	-0.110	[illegible]	VB		5.20

12

WI:64

Filter-08F

TITLE: RUN # 32 2:55 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091815 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.272		132299	VV	?	2.50
2		0.0000	0.310		117412	VV	?	2.80
3		0.0000	0.345		109301	VB	?	3.40
4		0.0000	0.650		95983	BV	?	1.30
5		0.0000	0.789		26179	VB		2.20
6		0.0000	0.950		4594	BB		2.55
7		0.0000	1.157		436	BV		3.25
8		0.0000	1.273		4734	VV		3.75
9		0.0000	1.349		2243	VB	?	2.75
10		0.0000	1.679		2211	BV		5.20
11		0.0000	1.797		689	VB	?	3.10
12	G-BHC	0.0003	1.997	0.017	252	BV		3.70
13	B-BHC	0.0026	2.220	-0.110	837	VB		5.20
14	D-BHC	0.0003	2.640	-0.080	163	BV	?	5.70
15	ALDRIN	0.0097	2.937	-0.053	5911	VV	?	8.05
16		0.0000	3.355		954	VV	?	7.90
17		0.0000	3.832		168	VB		5.70
18		0.0000	4.610		421	BV	?	17.60
19		0.0000	5.326		1704	VV	?	14.00
20	A ENDOSUL	0.0673	6.107	0.147	19536	VB		13.90
21		0.0000	12.569		337	BV	?	29.90
22		0.0000	13.050		261	VV	?	38.35
23	END ALD	0.0235	14.694	-0.316	1195	VV	?	42.90
24		0.0000	15.476		1522	VV	?	42.20
25	ENDO SUL	0.0215	17.899	-0.681	1371	VV		42.10
26		0.0000	23.072		915	VV	?	56.80
27	DBC	0.0880	24.345	-1.185	4603	VB	?	61.35
TOTALS:		0.2132		-2.261	536231			

DETECTED PKS: 32 REJECTED PKS: 5

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 136

RACK: 3 VIAL: 1 INJ: 1

SAVED FILE: P1977

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

125

varian / sunnyvale, calif p

900362 00

CHART SPEED: 0.5 CM MIN

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
Filter - 13F

15091816

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/16/85

Date Analyzed: 10/22/85

Conc/Dil Factor: 1

CAS Number		ug/~~l or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

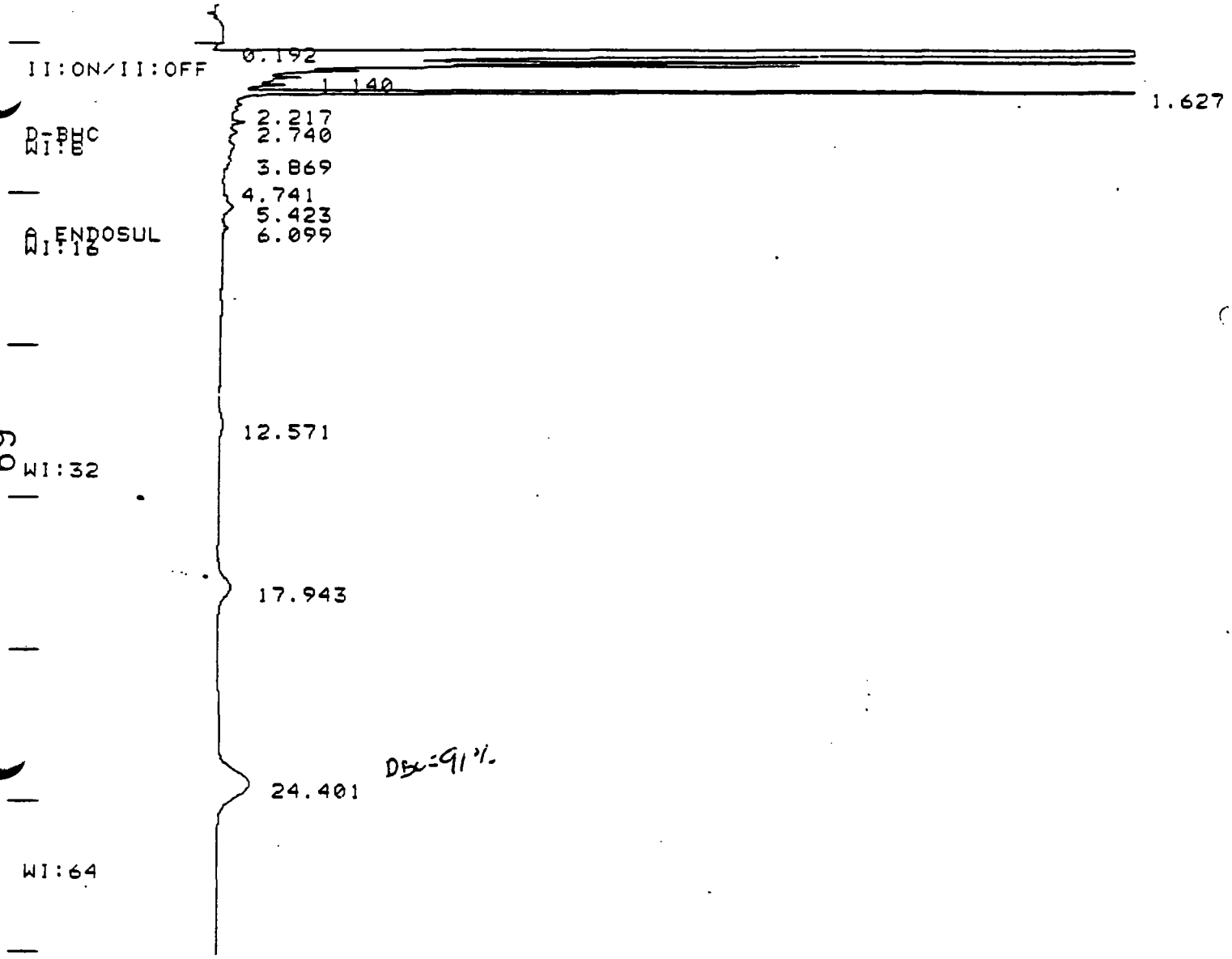
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100µl/1ml

Filter-13F

TITLE: RUN #33 10:22 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091816 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.287		121811	VB	5.50
2		0.0000	0.645		15331	BV	2.20
3		0.0000	0.707		3682	VV	? 2.25
4		0.0000	0.775		7030	VV	2.25
5		0.0000	0.915		853	VB	2.35
6		0.0000	1.140		479	BV	2.95
7		0.0000	1.398		463	VB	2.85
8		0.0000	1.627		22461	BB	3.85
9	D-BHC	0.0003	2.622	-0.098	201	BV	5.60
10	ALDRIN	0.0002	2.947	-0.043	111	VB	7.10
11		0.0000	5.423		154	[illegible]	? 17.80
12	ENDOSUL	0.0029	17.943	-0.087	185	BB	41.20

69

varian /sunnyvale, calif p n 0_ 362 00

24.401 DBC=91%

WI:64

100µl/1ml

varian / sunnyvale, calif. p.n 03 906362 00

TITLE: RUN #33 FLTR-13F 10:22 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091816 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.287		121811	VB	5.50
2		0.0000	0.645		15331	BV	2.20
3		0.0000	0.707		3682	VV ?	2.25
4		0.0000	0.775		7030	VV	2.25
5		0.0000	0.915		853	VB	2.35
6		0.0000	1.140		479	BV	2.95
7		0.0000	1.398		463	VB	2.85
8		0.0000	1.627		22461	BB	3.85
9	D-BHC	0.0003	2.622	-0.098	201	BV	5.60
10	ALDRIN	0.0002	2.947	-0.043	111	VB	7.10
11		0.0000	5.423		154	VV ?	17.80
12	ENDO SUL	0.0029	17.943	-0.637	185	BB	41.60
13	DBC	0.0091	24.401	-1.129	475	BB	56.65
TOTALS:		0.0125		-1.907	173236		

DETECTED PKS: 24 REJECTED PKS: 11

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 59

RACK: 3 VIAL: 3 INJ: 1

SAVED FILE: P1940

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

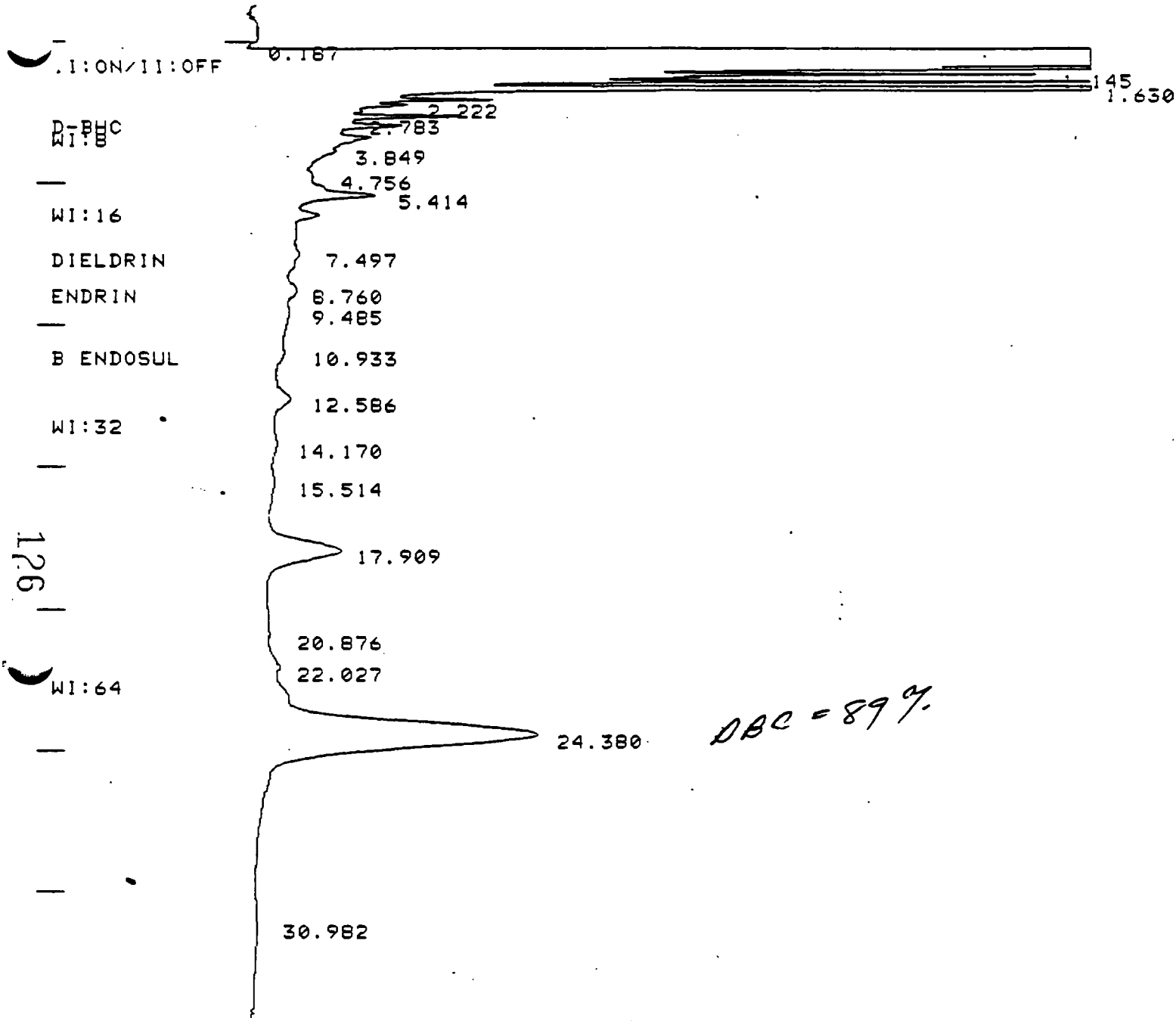
70

CHART SPEED 0.5 CM/MIN
TEN: 16 ZERO: 10% 5 MIN/TICK

I1:ON/I1:OFF

WI:8

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



DBC = 89%

126

TLE: RUN # 33 Filter-Ø 13F 3:28 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091816 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.272		122419	VV	1	2.60
2		0.0000	0.305		106778	VV	1	2.20
3		0.0000	0.342		85405	VB	1	2.20
4		0.0000	0.649		[illegible]	[illegible]	1	[illegible]

TITLE: RUN # 33 Filter-Ø 13F 3:28 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091816 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.272		122419	VV	?	2.60
2		0.0000	0.305		106778	VV	?	2.20
3		0.0000	0.342		83409	VB	?	2.20
4		0.0000	0.649		92028	BV	?	1.35
5		0.0000	0.712		45528	VV	?	2.80
6		0.0000	0.778		75211	VV		2.75
7		0.0000	0.924		19405	VV		2.95
8		0.0000	1.145		6627	VV		3.20
9		0.0000	1.270		1819	VV	?	3.55
10		0.0000	1.404		10005	VB		2.95
11		0.0000	1.630		111871	BB		4.95
12	G-BHC	0.0018	2.050	0.070	1734	BV		4.00
13	B-BHC	0.0019	2.222	-0.108	618	VB		4.00
14		0.0000	2.442		111	BV		3.50
15	D-BHC	0.0031	2.625	-0.095	1827	VV		5.45
16	ALDRIN	0.0016	2.947	-0.043	943	VB		6.80
17		0.0000	3.367		502	BB		9.15
18		0.0000	3.849		108	BB		5.35
19		0.0000	4.756		130	BV	?	14.40
20		0.0000	5.414		1222	VV	?	14.50
21	A ENDOSUL	0.0012	6.110	0.150	362	VB		12.90
22	ENDRIN	0.0008	8.760	-0.270	145	BV		26.80
23		0.0000	12.586		251	BB		28.30
24	ENDO SUL	0.0194	17.909	-0.671	1239	VB		41.65
25		0.0000	22.027		268	VV	?	55.60
26	DBC	0.0889	24.380	-1.150	4649	VB		58.15
TOTALS:		0.1187		-2.117	689209			

DETECTED PKS: 35 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 176

RACK: 3 VIAL: 2 INJ: 1

SAVED FILE: F197B

NOTES:
4 UL INJECTION
1.5%SP2250/1.95%SP2401
GC #2

CHART SPEED: 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK

varian/sunnyvale, calif p.n 03 906362 00

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
Filter - 16F

15091817

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 10/16/85

Date Analyzed: 10/22/85

Conc/Dil Factor: 1

CAS Number		ug/~~l or ug/Kg~~ PUF (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	< 0.1
11104-28-2	Aroclor-1221	< 0.1
11141-16-5	Aroclor-1232	< 0.1
53469-21-9	Aroclor-1242	< 0.1
12672-29-6	Aroclor-1248	< 0.1
11097-69-1	Aroclor-1254	< 0.2
11096-82-5	Aroclor-1260	< 0.2

V_i = Volume of extract injected (ul)

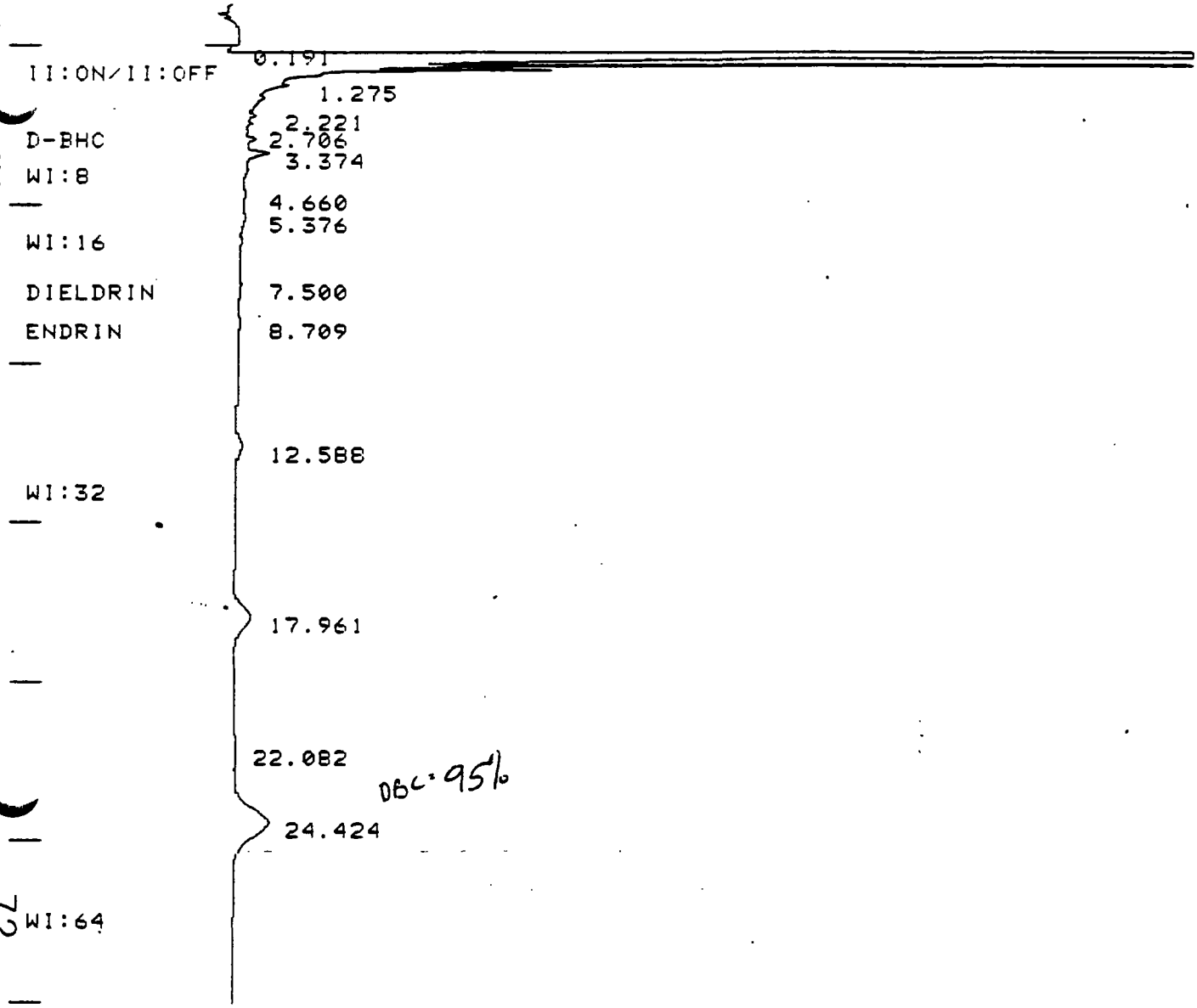
V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s NA V_i 1,000 V_t 4

CHART SPEED 0.5 CM/MIN
ATTEN: 16 ZERO: 10% 5 MIN/TICK



100 µl/1ml

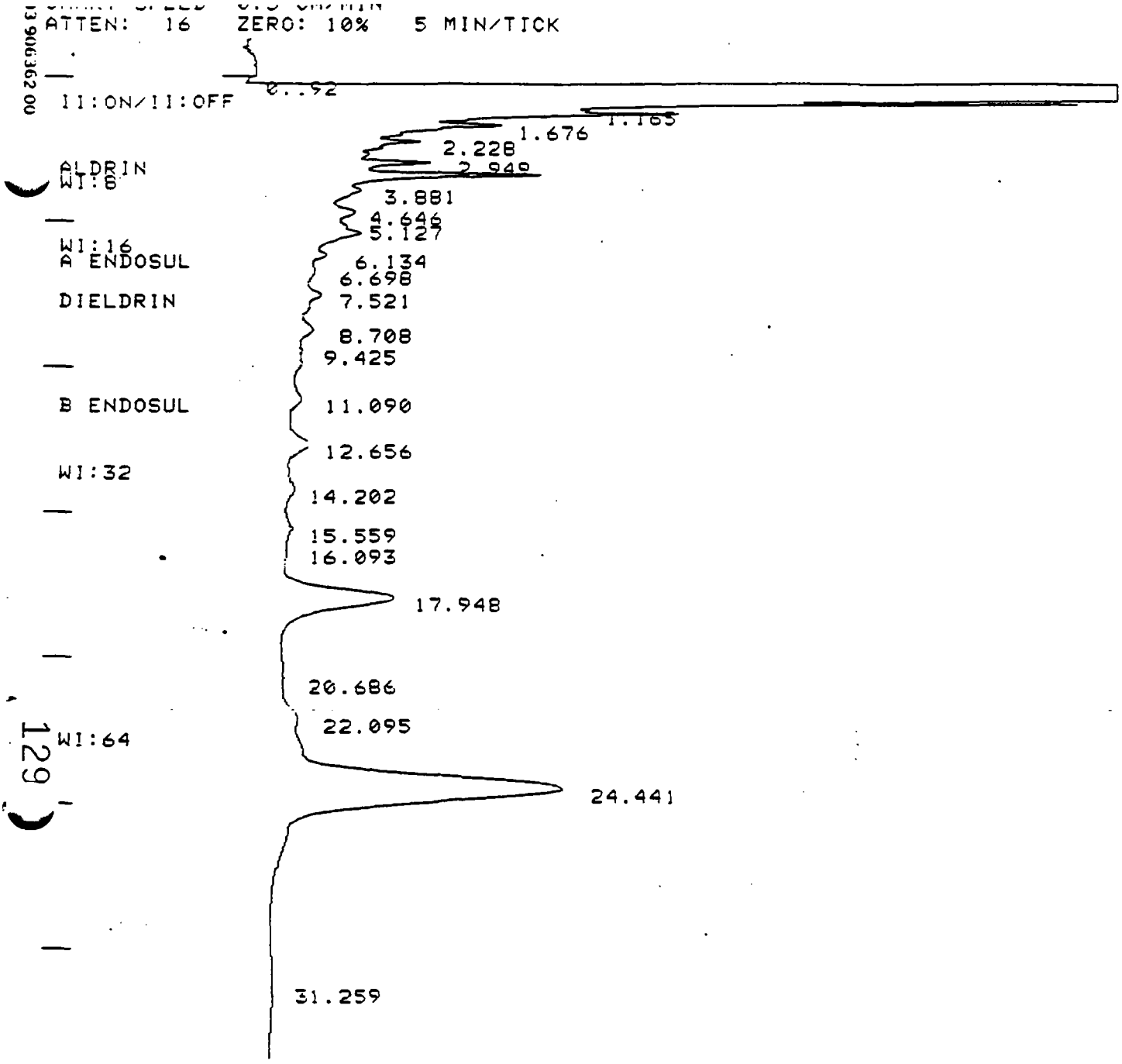
TITLE: RUN # 35 F, Lter-16F 11:27 18 OCT 85

CHANNEL NO: 2 SAMPLE: 15091817 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE	W1/2 (SEC)
1		0.0000	0.287		124001	VB	5.55
2		0.0000	0.645		16436	BV	2.15
3		0.0000	0.785		2905	VB	2.10
4		0.0000	0.921		100	BB	1.10
5		0.0000	1.275		191	BB	2.85
6		0.0000	1.667		104	BB	5.50
7	ALDRIN	0.0002	2.940	-0.050	140	VV	7.90
8		0.0000	3.374		344	VV	? 9.45
9	ENDO SUL	0.0039	17.961	-0.619	247	BB	42.20
10	DBC	0.0095	24.424	-1.106	498	VB	57.60
TOTALS:		0.0136		-1.775	144966		

Sunnyvale, Calif D.O.L. 362 00

72



TITLE: RUN = 35 Filter - 16F 4:38 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091817 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.276		131476	VV	?	2.60
2		0.0000	0.312		118345	VV	?	2.70
3		0.0000	0.344		110923	VB	?	2.90
4		0.0000	0.652		97967	BV	?	1.35
5		0.0000	0.792		28236	VB		2.25
6		0.0000	0.956		5605	BB		2.55
7		0.0000	1.165		377	BV		3.65
8		0.0000	1.365		2457	VB		3.00
9		0.0000	1.672		1220	B		3.45

129

31.259

TITLE: RUN # 35 Filter - 16F 4:38 22 OCT 85

CHANNEL NO: 2 SAMPLE: 15091817 METHOD: 2A PP-1

PEAK NO	PEAK NAME	RESULT UG/ML	TIME (MIN)	TIME OFFSET	HEIGHT COUNTS	SEP CODE		W1/2 (SEC)
1		0.0000	0.276		131476	VV	?	2.60
2		0.0000	0.312		118345	VV	?	2.70
3		0.0000	0.344		110923	VB	?	2.90
4		0.0000	0.652		97967	BV	?	1.35
5		0.0000	0.792		28236	VB		2.25
6		0.0000	0.956		5605	BB		2.55
7		0.0000	1.165		377	BV		3.65
8		0.0000	1.285		2487	VB		3.00
9		0.0000	1.676		1220	BV		6.65
10		0.0000	1.805		473	VV		1.40
11	G-BHC	0.0001	1.979	-0.001	127	VB		2.30
12	B-BHC	0.0022	2.228	-0.102	709	BV		5.45
13		0.0000	2.451		255	VB		2.50
14	D-BHC	0.0002	2.643	-0.077	138	BV		7.15
15	ALDRIN	0.0020	2.949	-0.041	1187	VV		8.20
16		0.0000	3.165		288	VV	?	1.00
17		0.0000	3.371		3128	VV	?	5.85
18		0.0000	3.881		315	VB		8.65
19		0.0000	4.646		400	BV	?	17.70
20		0.0000	5.127		323	VV	?	14.50
21		0.0000	5.374		591	VV		14.80
22	A ENDOSUL	0.0006	6.134	0.174	182	VV		10.95
23	DIELDRIN	0.0011	7.521	0.121	245	VV		17.35
24	ENDRIN	0.0012	8.708	-0.322	215	VV		20.20
25	B ENDOSUL	0.0011	11.090	-0.090	151	BB		22.00
26		0.0000	12.656		339	BB	?	30.45
27		0.0000	14.202		104	BV		33.20
28	ENDO SUL	0.0285	17.948	-0.632	1817	VB		42.30
29		0.0000	22.095		300	VV	?	55.00
30	DBC	0.0898	24.441	-1.089	4694	VB		58.50
TOTALS:		0.1268		-2.059	512617			

DETECTED PKS: 39 REJECTED PKS: 9

DIVISOR: 1.00000 MULTIPLIER: 1.00000

NOISE: 2.4 OFFSET: 98

RACK: 3 VIAL: 4 INJ: 1

SAVED FILE: P1980

NOTES:
UL INJECTION
.5%SP2250/1.95%SP2401
GC #2

varian /sunnyvale calif 03 9063

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. JFFS Contract Laboratory N Contract No.

Low ✓ Medium

	VOLATILE				SEMI-VOLATILE							PESTICIDE
SMO TRAFFIC NO.	TOLUENE-D8 (81-117)	BFB (74-121)	1,2 DICHLORO-ETHANE-D4 (70-121)	NITRO-BENZENE-D5 (23-120)	2-FLUORO-BIPHENYL (30-115)	TERPHENYL-D14 (18-137)			PHENOL-D5 (24-113)	2-FLUORO-PHENOL (25-121)	2,4,6 TRIBROMO PHENOL (19-122)	DIBUTYL-CHLORENDATE ** (20-150)
08-140 Puff												94
09-002 Filter												75
08-01												94
08-02												DL
08-03												99
08-05												132
08-14												90
08-06												104
08-08												86
08-13												95
08-16												98
08-24												91
08-21												101
08-22												89
08-23												64
08-09												*
08-11												90
Filter - 06F												88
Filter - 08F												88
Filter - 13F												89
Filter - 16F												90

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: _____ out of _____ ; outside of QC limits

Semi-Volatiles: _____ out of _____ ; outside of QC limits

Pesticides: 0 out of 19 ; outside of QC limits

7/85

Comments: * Sample 08-09 had been missed when DBC was being added.

FORM II

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. PUFFS Contractor NUS Contract No. _____

Low Level ✓ Medium Level _____

FRACTION	COMPOUND	CONC. SPIKE ADDED (µg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY
VOA SMO SAMPLE NO.	1,1-Dicholorethene								22	59-172
	Trichloroethene								24	62-137
	Chlorobenzene								21	60-133
	Toluene								21	59-139
_____	Benzene								21	66-142
B/N SMO SAMPLE NO.	1,2,4-Trichlorobenzene								23	38-107
	Acenaphthene								19	31-137
	2,4 Dinitrotoluene								47	28-89
	Di-n-Butylphthalate								47	29-135
	Pyrene								36	35-142
	N-Nitrosodi-n-Propylamine								38	41-126
_____	1,4-Dichlorobenzene								27	28-104
ACID SMO SAMPLE NO.	Pentachlorophenol								47	17-109
	Phenol								35	26-90
	2-Chlorophenol								50	25-102
	4-Chloro-3-Methylphenol								33	26-103
_____	4-Nitrophenol								50	11-114
PEST SMO SAMPLE NO.	Aroclor -1242	1.0	.0	0.84	84				50	46-127
	Heptachlor								31	35-130
	Aldrin								43	34-132
	Dieldrin								38	31-134
	Endrin								45	42-139
08-145	4,4'-DDT								50	23-134

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs _____ out of _____; outside QC limits
B/N _____ out of _____; outside QC limits
ACID _____ out of _____; outside QC limits
PEST -- out of --; outside QC limits

RECOVERY: VOAs _____ out of _____; outside QC limits
B/N _____ out of _____; outside QC limits
ACID _____ out of _____; outside QC limits
PEST 0 out of 1; outside QC limits

Comments: _____

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. PUFFS Contractor NUS Contract No. _____

Low Level ✓ Medium Level _____

FRACTION	COMPOUND	CONC. SPIKE ADDED (µg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA SMO SAMPLE NO.	1,1-Dicholorethene								22	59-172
	Trichloroethene								24	62-137
	Chlorobenzene								21	60-133
	Toluene								21	59-139
	Benzene								21	66-142
B/N SMO SAMPLE NO.	1,2,4-Trichlorobenzene								23	38-107
	Acenaphthene								19	31-137
	2,4 Dinitrotoluene								47	28-89
	Di-n-Butylphthalate								47	29-135
	Pyrene								36	35-142
	N-Nitrosodi-n-Propylamine								38	41-126
	1,4-Dichlorobenzene								27	28-104
ACID SMO SAMPLE NO.	Pentachlorophenol								47	17-109
	Phenol								35	26-90
	2-Chlorophenol								50	25-102
	4-Chloro-3-Methylphenol								33	26-103
	4-Nitrophenol								50	11-114
PEST SMO SAMPLE NO. 08-107	Aroclor -1254	0.5	0	0.38	76				50	46-127
	Heptachlor								31	35-130
	Aldrin								43	34-132
	Dieldrin								38	31-134
	Endrin								46	42-139
	4,4'-DDT								50	23-134

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs ____ out of ____; outside QC limits
B/N ____ out of ____; outside QC limits
ACID ____ out of ____; outside QC limits
PEST -- out of --; outside QC limits

RECOVERY: VOAs ____ out of ____; outside QC limits
B/N ____ out of ____; outside QC limits
ACID ____ out of ____; outside QC limits
PEST 0 out of 1; outside QC limits

Comments: _____

REAGENT BLANK SUMMARY

ɜo No. PUFFS Contractor NUS Contract No.

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL.TIC OR UNKNOWN)	CONC.	UNITS	CRDL
08-132	11/11/85	PEST	----	----	-----	-------	Arochlor-1242	0.63	ug	N/A
08-116	11/10/85	PEST	----	----	-----	-------	None	----	--	---
08-68	11/10/85	PEST	----	----	-----	-------	None	----	--	---
08-144	11/11/85	PEST	----	----	-----	-------	None	----	--	---
08-140	11/21/85	PEST	----	----	-----	-------	None	----	--	---
09-002 Filter	11/21/85	PEST	----	----	-----	-------	None	----	--	---

ɜmmonts:

Pesticide Evaluation Standards Summary

Case No. Puffs Laboratory NVS

Contract No. Column 1.5% SP2250 / 1.95% SP2401

Date of Analysis 10-17-85 Instrument ID 3700 GC#2

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	6-29-85-12	5-29-85-12	4-29-85-12	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN	19	18	18	3.1
ENDRIN	4.5	4.2	4.1	4.9
4,4'-DDT	2.0	2.2	2.4	9.1
DIBUTYL CHLORENDATE	1.2	1.4	1.4	8.7

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
EVAL Mix A	6-29-85-12	16:38	-0-	Aroclor 1242 (High)	4-29-85-18	00:53	1.03
EVAL Mix B	5-29-85-12	17:10	0.04	08-05	15091742	1:26	1.07
EVAL Mix C	4-29-85-12	17:43	0.12	08-14	15091743	1:59	1.19
Aroclor 1016/1260	2-29-85-15	18:22	0.29	08-06	15091744	2:31	1.19
Aroclor 1221	2-29-85-16	18:55	0.34	08-08	15091745	3:04	1.28
Aroclor 1232	2-29-85-17	19:28	0.34	08-13	15091746	3:37	1.19
Aroclor 1242	5-29-85-18	20:01	0.29	Aroclor 1242	5-29-85-18	4:10	1.03
Aroclor 1248	2-29-85-19	20:33	0.45	08-16	15091747	4:42	0.87
Aroclor 1254	2-29-85-20	21:06	0.45	08-24	15091748	5:15	0.70
08-140 PUF *	15091071	21:39	0.49	08-21	15091749	5:48	0.54
09-002 Filter *	15091072	22:11	0.54	08-22	15091750	6:20	0.45
08-01	15091739	22:42	0.49	08-23	15091751	6:53	0.41
08-02	15091740	23:15	0.58	Aroclor 1242	5-29-85-18	7:26	0.37
08-03	15091741	23:48	0.74	08-09	15091786	7:58	DBC was Added
Aroclor 1242 (Low)	6-29-85-18	00:20	0.91	08-11	15091787	8:45	0.25

* ≤2% PACKED, ≤0.3% CAPILLARY

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FORM VIII

Pesticide Evaluation Standards Summary

Case No. Puffs Laboratory NUS

Contract No. Column 1.5% SP2250 / 1.95% SP2401

Date of Analysis 10-17-85 Instrument ID 3700 GC #2

EVALUATION CHECK FOR LINEARITY

LABORATORY ID				
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN				
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE				

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
Filter-06F	15091814	9:17	0.29				
Filter-08F	15091815	9:50	0.41				
Filter-13F	15091816	10:22	0.54				
Aroclor 1242	5-29-85-18	10:55	0.66				
Filter-16F	15091817	11:27	0.62				
Aroclor 1242	5-29-85-18	12:00	0.70				

* ≤2% PACKED, ≤0.3% CAPILLARY

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FORM VIII

AWL

Pesticide Evaluation Standards Summary

Case No. Buffalo Laboratory NUS

Contract No. Column 1.5% SP2250 / 1.45% SP2401

Date of Analysis 10/17/85 Instrument ID GC#2 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	6-29-85-18	5-29-85-18	4-29-85-18	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
~~ALDRIN~~ Aroclor 1242	4.1	3.9	3.8	3.9
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE				

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *

* ≤ 2% PACKED, ≤0.3% CAPILLARY

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FORM VIII

Pesticide Evaluation Standards Summary

Case No. Puffer Laboratory NUS

Contract No. Column 1.5% SP2250 / 1.95% SP2401

Date of Analysis 10/21/85 Instrument ID GC#2 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	6-29-85-12	5-29-85-12	4-29-85-12	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN	19	18	18	3.1
ENDRIN	4.3	4.1	4.0	3.7
4,4'-DDT	2.3	2.4	2.6	6.3
DIBUTYL CHLORENDATE	1.2	1.4	1.4	8.7

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
Eval Mix A	6-29-85-12	9:53	0	Aroclor 1242	4-29-85-18	18:03	0.33
Eval Mix B	5-29-85-12	10:26	0.12	08-05	15091742	18:36	0.41
Eval Mix C	4-29-85-12	10:59	0.20	08-14	15091743	19:08	0.53
Aroclor 1254	2-29-85-20	11:31	0.41	08-06	15091744	~~20:14~~ KS 19:40	0.70
Aroclor 1248	2-29-85-19	12:04	0.49	08-08	15091745	20:14	0.78
Aroclor 1242	5-29-85-18	12:36	0.65	08-13	15091746	20:47	0.90
Aroclor 1232	2-29-85-17	13:09	0.61	Aroclor 1242	5-29-85-18	21:20	0.94
Aroclor 1221	2-29-85-16	13:42	0.74	09-002 Filter	15101072 RG	21:56	1.35
Aroclor 1016/1260	2-29-85-15	14:14	0.65	08-16	15091747	22:28	0.98
08-140 PUF	15091071 KS	14:47	0.65	08-24	15091748	23:01	0.98
09-002 Filter	15101072 KS	15:20	0.49	08-21	15091749	23:36	1.02
08-01	15091739	15:52	0.49	08-22	15091750	0:09	1.02
08-02	15091740	16:25	0.45	Aroclor 1242	5-29-85-18	0:41	1.10
08-03	15091741	16:58	0.33	08-23	15091751	1:14	0.94
Aroclor 1242	6-29-85-18	17:30	0.25	08-09	15091786	1:47	DF

* ≤2% PACKED, ≤0.3% CAPILLARY

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FORM VIII

Pesticide Evaluation Standards Summary

Case No. Puffer Laboratory NUS

Contract No. _____ Column 1.5% SP2250 / 1.45% SP2401

Date of Analysis 10/21/85 Instrument ID GC#2 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID				
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN				
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE				

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
Filter - 06F	15091814	2:23	0.61				
Filter - 08F	15091815	2:55	0.41				
Filter - 13F	15091816	3:28	0.29				
Aroclor 1248	3-29-85-19	4:05	0.04				
Filter - 16F	15091817	4:38	0.04				
Aroclor 1248	1-29-85-19	5:14	0.04				

* ≤ 2% PACKED, ≤0.3% CAPILLARY

4/84

FORM VIII

RWL.

Pesticide Evaluation Standards Summary

Case No. Puffer Laboratory NUS

Contract No. Column 1.5% SP2250 / 1.75% SP2401

Date of Analysis 10/21/85 Instrument ID GC #2 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	Low 6-29-85-18	Med 5-29-85-18	High 4-29-85-18	
PESTICIDE	~~CALIBRATION FACTOR~~ EVAL. MIX A	~~CALIBRATION FACTOR~~ EVAL. MIX B	~~CALIBRATION FACTOR~~ EVAL. MIX C	% RSD (≤10%)
~~ALDRIN~~ Aroclor 1242	4.2	3.8	3.9	5.2
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE				

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *

* ≤2% PACKED, ≤0.3% CAPILLARY

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FORM VIII

pwL

Pesticide Evaluation Standards Summary

Case No. Puffer Laboratory NUS

Contract No. _____ Column 1.5% SP2250 / 1.95% SP2401

Date of Analysis 10/22/85 Instrument ID GC#2 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	Low 3-29-85-19	Mod 2-29-85-19	High 1-29-85-19	
PESTICIDE	~~CALIBRATION FACTOR EVAL. MIX A~~	~~CALIBRATION FACTOR EVAL. MIX B~~	~~CALIBRATION FACTOR EVAL. MIX C~~	% RSD (≤10%)
~~ALDRIN~~ Anochlor 1248	2.9	2.0	2.8	19
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE				

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *

* ≤ 2% PACKED, ≤0.3% CAPILLARY

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FORM VIII

Rwl L

Pesticide Evaluation Standards Summary

Case No. Puffer Laboratory NUS

Contract No. Column FSCC DB5

Date of Analysis 10/22/85 Instrument ID GC #6 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	6-29-85-12	5-29-85-12	4-29-85-12	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN	195	206	233	9.3
ENDRIN	148	128	131	8.0
4,4'-DDT	155	144	142	4.8
DIBUTYL CHLORENDATE	117	121	117	2.0

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
Eval Mix A	6-29-85-12	19:36	0	08-16	15091747	5:15	DF
Eval Mix B	5-29-85-12	20:05	0.04	Aroclor 1248	2-29-85-19	6:01	0
Eval Mix C	4-29-85-12	20:35	0.09	08-21	15091749	6:47	0.04
Aroclor 1242	5-29-85-18	21:13	0.13	08-22	15091750	7:34	0.04
Aroclor 1248	2-29-85-19	21:42	0.09	08-23	15091751	8:20	0.04
08-14	15091743	22:09	0.09	08-11	15091787	9:06	0.04
08-09	15091786	22:35	DF	Aroclor 1242	5-29-85-18	13:23	0.04
08-01	15091739	23:05	0.09				
08-02	15091740	23:51	0.04				
08-03	15091741	0:38	0.09				
Aroclor 1242	5-29-85-18	1:24	0.09				
08-05	15091742	2:10	0.04				
08-06	15091744	2:56	0.04				
08-08	15091745	3:43	0.04				
08-13	15091746	4:29	0.04				

* ≤ 2% PACKED, ≤0.3% CAPILLARY

4/84

FORM VIII

PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffe Laboratory NUS

Contract No. _____ GC Column 1.5% SP2250 1.95% SP2401 GC Instrument ID GC #2

	DATE OF ANALYSIS 10/17/85 TIME OF ANALYSIS 20:01 LABORATORY ID 5-29-85-18				DATE OF ANALYSIS 10/18/85 TIME OF ANALYSIS 4:10 LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. ~~OR~~ QUANT.	RT	CALIBRATION FACTOR	CONF. ~~OR~~ QUANT.	PERCENT DIFF. **
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016	2.45	.03	3.70					
Aroclor - 1221	1.45	.01	0.88					
Aroclor - 1232	2.45	.03	2.0		~~2.47~~ KF			
Aroclor - 1242	2.46	.05	3.9	QUANT.	2.47	3.9	QUANT.	0
Aroclor - 1248	2.46	.02	2.8					
Aroclor - [illegible]54	7.51	.02	1.9					
Aroclor - [illegible]60	12.68	.14	1.4					

* SEE EXHIBIT D, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)

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PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffer Laboratory NUS

Contract No. _____ GC Column 1.5% SP2250 1.45% SP2401 GC Instrument ID GC#2

	DATE OF ANALYSIS 10/18/85 TIME OF ANALYSIS 4:10 LABORATORY ID 5-29-85-18				DATE OF ANALYSIS 10/18/85 TIME OF ANALYSIS 7:26 LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. ~~OR~~ QUANT.	RT	CALIBRATION FACTOR	CONF. ~~OR~~ QUANT.	PERCENT DIFF. **
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.47	KS ~~.03~~ .05	3.9	QUANT.	2.45	3.9	QUANT.	0
Aroclor - 1248								
Aroclor - [illegible]54								
Aroclor - [illegible]60								

* SEE EXHIBIT D, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffer Laboratory NUS

Contract No. GC Column 1.5% SP2250 / 1.25% SP2401 GC Instrument ID GC#2

	DATE OF ANALYSIS 10/18/85				DATE OF ANALYSIS 10/18/85			
	TIME OF ANALYSIS 7:26				TIME OF ANALYSIS 10:55			
	LABORATORY ID 5-29-85-18				LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF. **
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.45	.05	3.9	QUANT.	2.46	3.9	QUANT.	0
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1260								

* [illegible] PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffer Laboratory NUS

Contract No. GC Column 1.5% SP2250 / 1.95% SP2401 GC Instrument ID GC # 2

	DATE OF ANALYSIS 10/18/85 TIME OF ANALYSIS 10:55 LABORATORY ID 5-29-85-18				DATE OF ANALYSIS 10/18/85 TIME OF ANALYSIS 12:00 LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.46	0.05	3.9	QUANT.	2.46	3.9 ~~2.46~~ KS	QUANT.	0
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1260								

* SEE EXHIBIT B, PART 7

** CONF. = CONFIRMATION (<20% DIFFERENCE)

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PESTICIDE/PCB STANDARDS SUMMARY

Case No. Duffy Laboratory NUS
Contract No. _____ GC Column 1.5% SP2250 / 1.85% SP2401 GC Instrument ID GC #2 3700

	DATE OF ANALYSIS 10/21/85				DATE OF ANALYSIS 10/21/85			
	TIME OF ANALYSIS 12:36				TIME OF ANALYSIS 21:20			
	LABORATORY ID 5-29-85-18				LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. ~~OR~~ QUANT.	RT	CALIBRATION FACTOR	CONF. ~~OR~~ QUANT.	PERCENT DIFF. **
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016	2.45	.03	3.7					
Aroclor - 1221	1.45	.01	0.88					
Aroclor - 1232	2.45	.03	2.0					
Aroclor - 1242	2.46	.05	3.8	QUANT.	2.44	4.0	QUANT.	5.3
Aroclor - 1248	2.46	.02	2.7					
Aroclor - 1254	7.50	.02	1.8					
Aroclor - 1260	12.65	.14	1.4					

* SEE EXH. [illegible] PART 2

** CONF. = CONFIRMATION (<20% DIFFERENCE)

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PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffi Laboratory NVS

Contract No. _____ GC Column 1.5% SP2250 / 1.45% SP2401 GC Instrument ID GC#2 3700

	DATE OF ANALYSIS 10/21/85 TIME OF ANALYSIS 21:20 LABORATORY ID 5-29-85-18				DATE OF ANALYSIS 10/22/85 TIME OF ANALYSIS 0:41 LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.44	.05	4.0	QUANT.	2.44	4.0	QUANT.	0
Aroclor - 1248								
Aroclor - [illegible]54								
Aroclor - [illegible]60								

* [illegible]

** CONF. = CONFIRMATION (≤20% DIFFERENCE)

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PESTICIDE/PCB STANDARDS SUMMARY

RWL

Case No. Puffer Laboratory NUS

Contract No. GC Column FSCC DB-5 GC Instrument ID GC #6 3700

	DATE OF ANALYSIS 10/22/85 TIME OF ANALYSIS 21:13 / 21:42 LABORATORY ID 5-24-85-18 / 2-24-85-19				DATE OF ANALYSIS 10/23/85 TIME OF ANALYSIS 1:24 / 6:01 LABORATORY ID 5-24-85-18 / 2-24-85-19			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC		0.10						
beta-BHC		0.09						
delta-BHC		0.03						
gamma-BHC		0.06						
Heptachlor		0.10						
Aldrin		0.03						
Heptachlor Epoxide		0.08						
Endosulfan I		0.06						
Dieldrin		0.06						
4,4'-DDE		0.09						
Endrin		0.06						
Endosulfan II		0.09						
4,4'-DDD		0.05						
Endrin Aldehyde		0.05						
Endosulfan Sulfate		0.03						
4,4'-DDT		0.05						
Methoxychlor		0.06						
Endrin Ketone		0.05						
Tech. Chlordane		0.05						
alpha-Chlordane*		—						
gamma-Chlordane*		—						
Toxaphene		0.03						
Aroclor - 1016		0.05						
Aroclor - 1221		0.03						
Aroclor - 1232		0.05						
Aroclor - 1242	6.37	0.13	63	CONF.	6.36	51	CONF.	19
Aroclor - 1248	6.35 ~~10.55~~ KS	0.08	58	"	6.37	50	↓	16
Aroclor - 1254		0.05						
Aroclor - 1260		0.02						

A/1

PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffer Laboratory NUS

Contract No. GC Column FSCC DB-5 GC Instrument ID GC #6 3700

	DATE OF ANALYSIS 10/23/85 TIME OF ANALYSIS 1:24 LABORATORY ID 5-29-85-18				DATE OF ANALYSIS 10/23/85 TIME OF ANALYSIS 13:23 LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF. **
alpha-BHC		0.10						
beta-BHC		0.09						
delta-BHC		0.03						
gamma-BHC		0.06						
Heptachlor		0.10						
Aldrin		0.03						
Heptachlor Epoxide		0.08						
Endosulfan I		0.06						
Dieldrin		0.06						
4,4'-DDE		0.09						
Endrin		0.06						
Endosulfan II		0.09						
4,4'-DDD		0.05						
Endrin Aldehyde		0.05						
Endosulfan Sulfate		0.03						
4,4'-DDT		0.05						
Methoxychlor		0.06						
Endrin Ketone		0.05						
Tech. Chlordane		0.05						
alpha-Chlordane*		—						
gamma-Chlordane*		—						
Toxaphene		0.03						
Aroclor - 1016		0.05						
Aroclor - 1221		0.03						
Aroclor - 1232		0.05						
Aroclor - 1242	6.36	0.13	51	CONF.	6.41	51	CONF.	0
Aroclor - 1248		0.08						
Aroclor - [illegible]4		0.05						
Aroclor - [illegible]60		0.02						

Pesticide/PCB Identification

Case No. Puffer

Laboratory NUS

Contract No.

SAMPLE ID	PRIMARY COLUMN	PESTICIDE/ PCB	RT OF TENTATIVE ID	RT WINDOW OF APPROPRIATE STANDARD	CONFIRMATION COLUMN	RT ON CONFIRMATORY COLUMN	RT WINDOW OF APPROPRIATE STANDARD	GC/MS CONFIRMED (Y or N)
08-02	1.5% SP2250 1.45% SP2401	1242	2.46	0.05	FSCC DB5	6.36	0.13	N
08-03			2.46			6.37		
08-14			2.45			6.34		
08-08			2.45			6.36		
08-13			2.48			6.37		
08-16			2.47			6.37		
08-23			2.44			6.38		
08-21			2.46			6.37		
08-22			2.46			6.38		
08-05			2.47			6.37		
08-01			2.46			6.38		

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. ____ PUFFS ____ Contract Laboratory ____ N ____ Contract No. ____

Low X Medium ____

SMO TRAFFIC NO.	VOLATILE: TOLUENE-D8 (81-117)	VOLATILE: BFB (74-121)	VOLATILE: 1,2 DICHLORO-ETHANE-D4 (70-121)	SEMI-VOLATILE: NITRO-BENZENE-D5 (23-120)	SEMI-VOLATILE: 2-FLUORO-BIPHENYL (30-115)	SEMI-VOLATILE: TERPHENYL-D14 (18-137)	SEMI-VOLATILE:	SEMI-VOLATILE:	SEMI-VOLATILE: PHENOL-D5 (24-113)	SEMI-VOLATILE: 2-FLUORO-PHENOL (25-121)	SEMI-VOLATILE: 2,4,6 TRIBROMO-PHENOL (19-122)	PESTICIDE: ** DIBUTYL-CHLORENDATE (20-150)
08-94												DL
08-86												82
08-68												63
08-107												78
08-04												48
08-116												82
08-132												77
08-144												81
08-145												92
08-96												72
08-123												89
08-90												76
08-91												80
08-95												83
08-07												DL
08-16												85
08-12												84
08-15												93
08-17												66
08-18												83
08-19												95
08-20												DL
08-38												97
08-10												85

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: ____ out of ____ ; outside of QC limits

Semi-Volatiles: ____ out of ____ ; outside of QC limits

Pesticides: 0 out of 21 ; outside of QC limits

7/85

Comments: Three samples 08-94, 08-07 and 08-20 were run at such high dilutions that the DBC was diluted out. DL = diluted out.

FORM II

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. ____ PUFFS ____ Contract Laboratory ____ N ____ Contract No. ____

Low X Medium ____

SMO TRAFFIC NO.	VOLATILE: TOLUENE-D8 (81-117)	VOLATILE: BFB (74-121)	VOLATILE: 1,2 DICHLORO-ETHANE-D4 (70-121)	SEMI-VOLATILE: NITRO-BENZENE-D5 (23-120)	SEMI-VOLATILE: 2-FLUORO-BIPHENYL (30-115)	SEMI-VOLATILE: TERPHENYL-D14 (18-137)			SEMI-VOLATILE: PHENOL-D5 (24-113)	SEMI-VOLATILE: 2-FLUORO-PHENOL (25-121)	SEMI-VOLATILE: 2,4,6 TRIBROMO PHENOL (19-122)	PESTICIDE: DIBUTYL-CHLORENDATE ** (20-150)
08-25												105
08-27												90
08-30												95
08-31												93
08-32												87
08-33												83
08-34												96
08-35												81
08-36												DL
08-37												DL
08-39												87
08-40												DL
08-41												99
08-42												94
08-43												88
08-45												104
08-46												96
08-48												94
08-50												94
08-51												98
08-82												102
08-88												92
08-89												76
08-92												88
08-93												DL

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

Volatiles: ____ out of ____ ; outside of QC limits

Semi-Volatiles: ____ out of ____ ; outside of QC limits

Pesticides: 0 out of 21 ; outside of QC limits

7/85

Comments: Samples 08-36, 08-37, 08-40, 08-93 DBC's were diluted out. DL = diluted out.

FORM II

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. PUFFS Contractor NUS Contract No. _____

Low Level X Medium Level _____

FRACTION	COMPOUND	CONC. SPIKE ADDED (µg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS * RPD	QC LIMITS * RECOVERY
VOA SMO SAMPLE NO.	1,1-Dicholorethene								22	59-172
	Trichloroethene								24	62-137
	Chlorobenzene								21	60-133
	Toluene								21	59-139
_____	Benzene								21	66-142
B/N SMO SAMPLE NO.	1,2,4-Trichlorobenzene								23	38-107
	Acenaphthene								19	31-137
	2,4 Dinitrotoluene								47	28-89
	Di-n-Butylphthalate								47	29-135
	Pyrene								36	35-142
	N-Nitrosodi-n-Propylamine								38	41-126
_____	1,4-Dichlorobenzene								27	28-104
ACID SMO SAMPLE NO.	Pentachlorophenol								47	17-109
	Phenol								35	26-90
	2-Chlorophenol								50	25-102
	4-Chloro-3-Methylphenol								33	26-103
_____	4-Nitrophenol								50	11-114
PEST SMO SAMPLE NO.	Aroclor-1254	0.5	0	0.38	76				50	46-127
	Heptachlor								31	35-130
	Aldrin								43	34-132
	Dieldrin								38	31-134
	Endrin								45	42-139
08-107	4,4'-DDT								50	23-134

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs _____ out of _____; outside QC limits
B/N _____ out of _____; outside QC limits
ACID _____ out of _____; outside QC limits
PEST -- out of --; outside QC limits

RECOVERY: VOAs _____ out of _____; outside QC limits
B/N _____ out of _____; outside QC limits
ACID _____ out of _____; outside QC limits
PEST 0 out of 1; outside QC limits

Comments: _____

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SOIL MATRIX SPIKE/MATRIX PIKE DUPLICATE RECOVERY

Case No. PUFFS Contractor NUS Contract No. _____

Low Level X Medium Level _____

FRACTION	COMPOUND	CONC. SPIKE ADDED (µg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY
VOA SMO SAMPLE NO.	1,1-Dicholorethene								22	59-172
	Trichloroethene								24	62-137
	Chlorobenzene								21	60-133
	Toluene								21	59-139
_____	Benzene								21	66-142
B/N SMO SAMPLE NO.	1,2,4-Trichlorobenzene								23	38-107
	Acenaphthene								19	31-137
	2,4 Dinitrotoluene								47	28-89
	Di-n-Butylphthalate								47	29-135
	Pyrene								36	35-142
	N-Nitrosodi-n-Propylamine								38	41-126
_____	1,4-Dichlorobenzene								27	28-104
ACID SMO SAMPLE NO.	Pentachlorophenol								47	17-109
	Phenol								35	26-90
	2-Chlorophenol								50	25-102
	4-Chloro-3-Methylphenol								33	26-103
_____	4-Nitrophenol								50	11-114
PEST SMO SAMPLE NO.	Aroclor-1242	1.0	0	0.84	84				50	46-127
	Heptachlor								31	35-130
	Aldrin								43	34-132
	Dieldrin								38	31-134
	Endrin								45	42-139
08-145	4,4'-DDT								50	23-134

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs _____ out of _____; outside QC limits
B/N _____ out of _____; outside QC limits
ACID _____ out of _____; outside QC limits
PEST -- out of --; outside QC limits

RECOVERY: VOAs _____ out of _____; outside QC limits
B/N _____ out of _____; outside QC limits
ACID _____ out of _____; outside QC limits
PEST 0 out of 1; outside QC limits

Comments: _____

REAGENT BLANK SUMMARY

ıo No. PUFFS Contractor NUS Contract No.

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL,TIC OR UNKNOWN)	CONC.	UNITS	CRDL
08-132	11/11/85	PEST	-----	--	------	---------	Aroclor-1242	0.63	ug/mL	N/A
08-116	11/10/85	PEST	-----	--	------	---------	None	----	--	---
08-68	11/10/85	PEST	-----	--	------	---------	None	----	--	---
08-144	11/11/85	PEST	-----	--	------	---------	None	----	--	---
08-140	10/21/85	PEST	-----	--	------	---------	None	----	--	---
09-002 Filter	10/21/85	PEST	-----	--	------	---------	None	----	--	---

mmonts:

Pesticide Evaluation Standards Summary

Case No. puffs Laboratory NVS

Contract No. _____ Column 1.5% SP 2250 / 1.95% SP 2401

Date of Analysis 11-6-85 Instrument ID GC#2

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	6-29-85-12	5-29-85-12	4-29-85-12	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN	20	19	20	2.9
ENDRIN	4.5	4.2	4.1	4.9
4,4'-DDT	2.3	2.5	2.8	9.9
DIBUTYL CHLORENDATE	1.3	1.6	1.5	10

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN	0			
4,4'-DDT	10			
LABORATORY ID	5-29-85-12			
TIME OF ANALYSIS	11:55			

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
Eval Mix A	6-29-85-12	11:17	-0-	Aroclor 1242 (Low)	6-29-85-18	19:46	0.04
Eval Mix B	5-29-85-12	11:55	0.09	08-33	15091757	20:20	0.04
Eval Mix C	4-29-85-12	12:25	0.09	08-34	15091758	20:53	0.04
Aroclor 1016/1260	2-29-85-13	12:54	0.09	08-35	15091759	21:26	0.00
" " 1221	2-29-85-16	13:29	0.13	08-36	15091760	22:02	DL
" " 1232	2-29-85-17	14:03	0.13	08-37	15091761	22:36	DL
" " 1242	5-29-85-18	14:36	0.13	Aroclor 1242	5-29-85-18	23:09	0.04
" " 1248	2-29-85-19	15:06	0.22	08-38	15091762	23:42	~~2.30~~ DL
" " 1254	2-29-85-20	15:40	0.22	08-39	15091763	0:15	~~2.56~~ DL
08-25	15091752	16:27	0.13	08-40	15091764	0:49	~~2.13~~ DL
08-27	15091753	17:00	0.13	08-41	15091765	1:22	0.13
08-30	15091754	17:33	0.09	08-42	15091766	1:54	1.08
08-31	15091755	18:07	0.04	Aroclor 1242	5-29-85-18	2:28	0.43
08-32	15091756	18:40	0.04	08-43	15091767	3:01	0.43
Aroclor 1242 (High)	4-29-85-18	19:13	0.00	08-45	15091768	3:34	0.39

* ≤ 2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. Puffer Laboratory NVS

Contract No. Column 1.5% SP2250 / 1.95% SP2401

Date of Analysis 11/6/85 Instrument ID GC#2 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	Low 6-29-85-18	Med. 5-29-85-18	High 4-29-85-18	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
~~ALDRIN~~ Aroclor 1242	4.4	4.0	3.8	7.5
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE				

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
08-46	15091769	4:07	0.30				
08-48	15091771	4:40	0.35				
08-50	15091772	5:14	1.30				
Aroclor 1242	5-29-85-18	5:47	0.30				
08-51	15091773	6:20	0.48				
08-82	15091774	7:03	0.35				
08-88	15091776	8:09	0.04				
08-89	15091777	8:41	0.13				
Aroclor 1242	5-29-85-18	9:14	0.22				
08-92	15091780	9:47	0.30				
08-93	15091781	10:15	DL				
08-94	15091782	10:48	DL				
Aroclor 1242	5-29-85-18	11:22	0.61				

* ≤2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. puffer Laboratory NUS

Contract No. _____ Column ~~FSCC DB5~~ SPB 5 KS

Date of Analysis 11/7/85 Instrument ID GC #6 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	6-29-85-12	5-29-85-12	4-29-85-12	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN	231	221	220	2.7
ENDRIN	124	111	113	6.0
4,4'-DDT	125	125	116	4.3
DIBUTYL CHLORENDATE	98	117	111	8.9

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN	15			
4,4'-DDT	3.0			
LABORATORY ID	5-29-85-12			
TIME OF ANALYSIS	20:20			

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
Eval Mix A	6-29-85-12	19:43	-0-	08-40	15091764	4:50	0.15
Eval Mix B	5-29-85-12	20:20	0.05	Arochlor 1242	5-29-85-18	5:27	0.20
Eval Mix C	4-29-85-12	20:56	0.05	08-42	15091766	6:03	0.15
Arochlor 1242	5-29-85-18	21:33	0.05	08-45	15091768	6:43	0.15
08-25	15091752	22:09	0.10	08-46	15091769	7:20	0.10
08-27	15091753	22:46	0.05	08-48	15091771	7:57	0.15
08-30	15091754	23:22	0.05	08-50	1501772	8:34	0.15
08-32	15091756	23:58	0.10	Arochlor 1242	5-29-85-12	9:11	0.15
08-34	15091758	~~24~~ 0:35	0.05	08-51	15091773	9:47	0.05
Arochlor 1242 (Low)	6-29-85-18	1:11	0.15	08-82	15091774	10:24	0.05
Arochlor 1242 (High)	4-29-85-18	1:48	0.15	08-88	15091776	11:01	0.05
08-36	15091760	2:24	0.15	~~08-92~~	~~15091780~~	~~12:15~~	~~0.05~~ KS
08-37	15091761	3:01	0.05	08-89	15091777	11:38	0.10
08-38	15091762	3:37	0.10	08-92	15091780	12:15	0.05
08-39	15091763	4:14	0.15	Arochlor 1242	5-29-85-12	13:00	0.05

* ≤2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. Putter Laboratory NUS

Contract No. Column SPB-5

Date of Analysis 11-8-85 Instrument ID GC #6

EVALUATION CHECK FOR LINEARITY

LABORATORY ID				
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN				
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE				

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
08-93	15091781	13:29	-0-				
08-94	15091782	13:58	0.05				
Aroclor 1242	5-29-85-48	14:34	-0-				

* ≤2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. [illegible] Laboratory NUS

Contract No. _____ Column 1.5% SP2250 / 1.95% SP2401

Date of Analysis 11/10/85 Instrument ID GC #2

EVALUATION CHECK FOR LINEARITY

LABORATORY ID				
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
~~ALDRIN~~ Aroclor 1242	4.1	3.9	3.6	6.5
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE	1.5	1.7	1.5	7.4 ~~1.5~~

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN	0			
4,4'-DDT	11			
LABORATORY ID	5-29-85-12			
TIME OF ANALYSIS	10:07			

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
EVAL MIX A	6-29-85-12	9:33	-0-	Aroclor 1242	6-29-85-18	23:00	0.65
EVAL MIX B	5-29-85-12	10:07	-0-	08-116	15091038	23:34	0.91
EVAL MIX C	4-29-85-12	10:40	0.09	08-132	15091039	0:11	0.35
Aroclor 1242	5-29-85-18	11:13	0.22	08-144	15091039	0:46	0.82
Aroclor 1016	2-29-85-15	16:02	0.26	08-145	15091040	1:19	0.48
Aroclor 1221	2-29-85-16	16:38	0.30	08-96	15091784	1:54	0.52
Aroclor 1232	2-29-85-17	17:12	0.26	Aroclor 1242	5-29-85-18	2:28	1.6
Aroclor 1248	2-29-85-19	17:46	0.26	08-123	15101863	3:02	1.5
Aroclor 1254	2-29-85-20	18:20	0.17	08-40	15091778	3:36	1.4
08-41	15091765	18:54	0.22	08-41	15091779	4:10	0.74
08-86	15091575	19:40	0.13	08-95	15091783	4:44	1.3
08-68	15090227	20:36	0.52	08-07	15090507	5:18	1.3
08-107	15090311	21:12	0.47	Aroclor 1242	5-29-85-18	5:52	1.4
08-04	15090506	21:46	0.39	KS 08-0410	15090508	6:27	1.6
Aroclor 1242 (HIGH)	4-29-85-18	22:25	0.48	08-12	15090509	7:01	1.4

* ≤2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. Puffer Laboratory NUS

Contract No. Column 1.5% SP2250 / 1.95% SP2401

Date of Analysis 11/10/85 Instrument ID GC 3700 #2

EVALUATION CHECK FOR LINEARITY

LABORATORY ID				
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN				
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE				

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
08-15	15090510	7:35 ✓	1.4				
08-17	15090511	8:10 ✓	1.4				
08-18	15090512	8:44 ✓	1.3				
Aroclor 1242	5-29-85-18	9:35 ✓	0.22				
08-19 RS	15090513	10:04 ✓	0.91				
08-20	15090514	10:33 ✓	DL				
Aroclor 1242	5-29-85-18	11:03 ✓	0.74				

* ≤2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. pulp Laboratory NUS

Contract No. Column SPB-5

Date of Analysis 11/12/85 Instrument ID GC#6

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	6-29-85-12	5-29-85-12	4-29-85-12	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
Aroclor ~~ALDRIN~~ 1242	61	62	67	5.1
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE	112	120	123	4.8

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN	2.2			
4,4'-DDT	1.7			
LABORATORY ID	5-29-85-12			
TIME OF ANALYSIS	13:22			

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
Eval Mix A	6-29-85-12	12:27	-0-	Aroclor 1242 (Lo)	6-29-85-18	0:05	.20
Eval Mix B	6-29-85-12	13:22	.05	08-20	15090514	0:42	.20
Eval Mix C	4-29-85-12	13:58	.10	Aroclor 1242	5-29-85-18	1:18	.20
Aroclor 1242	5-29-85-18	14:35	.10				
08-132	15091039	16:54	.10				
08-90	15091778	17:36	.15				
08-91	15091779	18:13	.15				
08-145	15101340	18:49	.15				
08-07	15090507	19:26	.15				
Aroclor 1242 (Hi)	4-29-85-18	20:03	.25				
08-10	15090508	20:40	.20				
08-12	15090509	21:39	.15				
08-15	15090510	22:16	.15				
08-17	15090511	22:52	.15				
08-18	15090512	23:29	.15				

* ≤2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. puffs Laboratory NUS

Contract No. _____ Column SPB-5

Date of Analysis 11/18/85 Instrument ID GC #6 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	6-29-85-12	5-29-85-12	4-29-85-12	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN	234	240	258	5.1
ENDRIN	129	134	143	5.2
4,4'-DDT	150	150	147	1.2
DIBUTYL CHLORENDATE	103	127	129	12

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN	2.0			
4,4'-DDT	1.7			
LABORATORY ID	5-29-85-12			
TIME OF ANALYSIS	18:18			

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
Eval Mix A	6-29-85-12	KS ~~19:37~~ 17:41	0				
Eval Mix B	5-29-85-12	18:18	.05				
Eval Mix C	4-29-85-12 KS	~~19:37~~ 18:51	.05				
Aroclor 1242	7-29-85-18	19:31	.10				
08-41	15091765	20:08	.10				
Aroclor 1242	7-29-85-18	20:43	.05				

* ≤2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. PIFFS Laboratory NUS

Contract No. ~~68-01-7022~~ Column FSCC SPB-5

Date of Analysis 11-22-85 Instrument ID GC #6 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	2-57-85-20	8-29-85-12	7-29-85-12	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN	267	248	252	3.9
ENDRIN	126	122	133	4.4
4,4'-DDT	129	149	146	7.6
DIBUTYL CHLORENDATE	109	117	116	3.8

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
Eval Mix B	8-29-85-12	9:20	0				
Eval Mix C	7-29-85-12	9:47	0				
Eval Mix A	2-57-85-20	11:45	0.10				
Aroclor 1254 (med)	2-29-85-20	6:00	-0-				
08-107	15090311	6:46	0.30				
Aroclor 1254 (high)	1-29-85-20	7:09	-0-				
Aroclor 1254 (low)	3-29-85-20	8:13	-0-				

* ≤2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. PUFFS Laboratory NLS

Contract No. _____ Column FSCC SPD-5

Date of Analysis 11-22-85 Instrument ID 3700 GC#6

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	2-29-85-20	1-29-85-20	3-29-85-20	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
PCB 1254 ~~ALDRIN~~	81	79	85	3.7
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE				

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *

* ≤2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. PUFFS Laboratory NVS

Contract No. _____ Column 1.5% SP2250 / 1.95% SP2401

Date of Analysis 11-22-85 Instrument ID GC#2 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	2-57-85-20	8-29-85-12	7-29-85-12	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
ALDRIN	16.3	15.0	15.8	4.2
ENDRIN	3.56	3.26	3.32	4.7
4,4'-DDT	1.63	1.67	1.96	10
DIBUTYL CHLORENDATE	1.16	1.06	1.10	4.5

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *
EVAL MIX B	8-29-85-12	21:05	-0-				
EVAL MIX C	7-29-85-12	21:35	.04				
EVAL MIX A	2-57-85-20	23.08	.30				
Aroclor 1254 (std)	2-29-85-20	4:41	-0-				
08-107	15090311	17:23	1.2				
Aroclor 1254 low	3-29-85-20	18:00	1.4				
Aroclor 1254 high	1-29-85-20	18:30	1.5				

* ≤2% PACKED, ≤0.3% CAPILLARY

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Pesticide Evaluation Standards Summary

Case No. PUFS Laboratory NUS

Contract No. _____ Column 1.5% SP2250 / 1.95% SP2401

Date of Analysis 11/22/85 Instrument ID GC#2 3700

EVALUATION CHECK FOR LINEARITY

LABORATORY ID	1-29-85-19	2-29-85-19	3-29-85-19	
PESTICIDE	CALIBRATION FACTOR EVAL. MIX A	CALIBRATION FACTOR EVAL. MIX B	CALIBRATION FACTOR EVAL. MIX C	% RSD (≤10%)
PCB 1254 ~~ALDRIN~~	3.19	3.04 ~~1.52~~ AS	3.18	2.7
ENDRIN				
4,4'-DDT				
DIBUTYL CHLORENDATE				

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION			
	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B	EVAL. MIX B
ENDRIN				
4,4'-DDT				
LABORATORY ID				
TIME OF ANALYSIS				

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *	SMO SAMPLE NO.	LAB ID	TIME OF ANALYSIS	PERCENT DIFF. *

* ≤ 2% PACKED, ≤0.3% CAPILLARY

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PESTICIDE/PCB STANDARDS SUMMARY

Case No. puffs Laboratory NUS
Contract No. GC Column 1.5% SP2250 / 1.5% SP2401 GC Instrument ID GC #2 3700

	DATE OF ANALYSIS 11/6/85				DATE OF ANALYSIS 11/6/85			
	TIME OF ANALYSIS 14:36				TIME OF ANALYSIS 23:09			
	LABORATORY ID 5-29-85-18				LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016	2.48	.03	3.9					
Aroclor - 1221	1.49	.01	0.88					
Aroclor - 1232	2.48	.03	2.10					
Aroclor - 1242	2.47	.05	4.0		2.47	4.1		2.5
Aroclor - 1248	2.47	.02	2.9					
Aroclor - 1254	7.36	.62	2.1					
Aroclor - 1260	12.29	.14	1.4					

** CONF = CONFIRMATION (<20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. puffs Laboratory NUS
Contract No. _____ GC Column 1.5% SP2250 1.5% SP2401 GC Instrument ID GC#2 3700

	DATE OF ANALYSIS 11/6/85 TIME OF ANALYSIS 23:09 LABORATORY ID 5-29-85-18				DATE OF ANALYSIS 11/7/85 TIME OF ANALYSIS 2:28 LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.47	.05	4.1		2.49	4.2		2.4
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1[illegible]0								

** CONF. = CONFIRMATION (<20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffer Laboratory NUS

Contract No. GC Column 1.5% SP2250 1.5% SP2401 GC Instrument ID GC#2 3700

	DATE OF ANALYSIS 11/7/85 TIME OF ANALYSIS 2:28 LABORATORY ID 5-29-85-18				DATE OF ANALYSIS 11/7/85 TIME OF ANALYSIS 5:47 LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.49	.05	4.2		2.47	4.1		2.4
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1260								

** CONF. = CONFIRMATION (<20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffs Laboratory NUS

Contract No. GC Column 1.5% SP2250 / 1.95% SP2401 GC Instrument ID GC#2 3700

	DATE OF ANALYSIS 11/7/85				DATE OF ANALYSIS 11/7/85			
	TIME OF ANALYSIS 5:47				TIME OF ANALYSIS 9:14			
	LABORATORY ID 5-29-85-18				LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.47	.05	4.1		2.48	4.2		2.4
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1260								

*

** CONF. = CONFIRMATION (<20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffer Laboratory NUS
Contract No. GC Column 1.5% SP2250 / 1.95% SP2401 GC Instrument ID GC#2 3700

	DATE OF ANALYSIS 10/7/85				DATE OF ANALYSIS 11/7/85			
	TIME OF ANALYSIS 9:14				TIME OF ANALYSIS 11:22			
	LABORATORY ID 5-29-85-18				LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.48	.05	4.2		2.49	4.1		2.4
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1260								

*

** CONF. = CONFIRMATION (<20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. puffs Laboratory NUS
Contract No. _____ GC Column 1.5% SP2250 / 1.95% SP2410 GC Instrument ID GC#2

	DATE OF ANALYSIS 11/10/85 TIME OF ANALYSIS 11:13 LABORATORY ID 5-29-85-18				DATE OF ANALYSIS 11/11/85 TIME OF ANALYSIS 2:28 LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. ~~OR~~ QUANT.	RT	CALIBRATION FACTOR	CONF. ~~OR~~ QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016	2.48	.03	3.7					
Aroclor - 1221	1.49	.01	0.89					
Aroclor - 1232	2.48	.03	2.1					
Aroclor - 1242	2.48	.05	3.9		2.51	3.8		2.6
Aroclor - 1248	2.48	.02	3.1					
Aroclor - 1254	7.35	.02	2.0					
Aroclor - 1[illegible]0	12.31	.14	1.3					

** CONF. = CONFIRMATION (.005% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. puffs Laboratory NUS
Contract No. _____ GC Column 1.5% SP2250 / 1.45% SP2401 GC Instrument ID GC#2

	DATE OF ANALYSIS 11/11/85 TIME OF ANALYSIS 2:28 LABORATORY ID 5-29-85-18				DATE OF ANALYSIS 11/11/85 TIME OF ANALYSIS 5:52 LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.51	.05	3.8		2.51	3.9		2.6
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1[illegible]								

** CONF. = CONFIRMATION (~20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. [illegible] Laboratory NUS

Contract No. [illegible] GC Column 1.5% SP2250 / 1.75% SP2401 GC Instrument ID GC #2

	DATE OF ANALYSIS 11/4/85				DATE OF ANALYSIS 11/11/85			
	TIME OF ANALYSIS 5:52				TIME OF ANALYSIS 9:35			
	LABORATORY ID 5-29-85-18				LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.51	.05	3.9		2.48	3.8		2.6
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1260								

** CONF - CONFIRMATION (≤20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffer Laboratory NUS
Contract No. GC Column 1.5% SP2250 / 1.95% SP2401 GC Instrument ID GC #2

	DATE OF ANALYSIS 11/11/85				DATE OF ANALYSIS 11/11/85			
	TIME OF ANALYSIS 9:35				TIME OF ANALYSIS 11:03			
	LABORATORY ID 5-29-85-18				LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	2.48	.05 ~~2.8~~ KS	3.8		2.49	3.8		-0-
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1260								

** CONF. = CONFIRMATION (>20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. [illegible] Laboratory NUS

Contract No. _____ GC Column SPB-5 GC Instrument ID GC#6

	DATE OF ANALYSIS 11/12/85 TIME OF ANALYSIS 14:35 LABORATORY ID 5-29-85-18				DATE OF ANALYSIS 11/12/85 TIME OF ANALYSIS 1:18 LABORATORY ID 5-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF. **
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	6.16	.03	FS ~~31~~ 62		6.15	63		1.6
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1260								

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. puffs Laboratory NUS
Contract No. GC Column SPB-5 GC Instrument ID GC#6 3700

	DATE OF ANALYSIS 11/18/85 TIME OF ANALYSIS 19:31 LABORATORY ID 7-29-85-18				DATE OF ANALYSIS 11/18/85 TIME OF ANALYSIS 20:43 LABORATORY ID 7-29-85-18			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF. **
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242	6.14	.03	57		6.11	60		5.2
Aroclor - 1248								
Aroclor - 1254								
Aroclor - 1[illegible]0								

** CONF. = CONFIRMATION (<20% DIFFERENCE)

4/84

PESTICIDE/PCB STANDARDS SUMMARY

Case No. Puffs Laboratory NVS

Contract No. _____ GC Column 1.5% SP 2250/1.95% SP 2401 GC Instrument ID GC #2 3700

	DATE OF ANALYSIS 11-22-85 TIME OF ANALYSIS 4:41 LABORATORY ID 2-29-85-20 Med.				DATE OF ANALYSIS 11-22-85 TIME OF ANALYSIS 18:30 LABORATORY ID 1-29-85-19 High			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF. **
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242								
Aroclor - 1248								
Aroclor - 1254	7.25	0.02	3.0		7.35	3.2		6.7
Aroclor - [illegible]0								

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** CONF. = CONFIRMATION (<20% DIFFERENCE)

PESTICIDE/PCB STANDARDS SUMMARY

Case No. _____ Laboratory NUS

Contract No. 68-01-7022 GC Column FSCC SPD-5 GC Instrument ID GC #6 3700

	DATE OF ANALYSIS 11-22-85				DATE OF ANALYSIS 11-22-85			
	TIME OF ANALYSIS 6:00				TIME OF ANALYSIS 7:09			
	LABORATORY ID 2-29-85-20 Med.				LABORATORY ID 1-29-85-30 High			
COMPOUND	RT	RETENTION TIME WINDOW	CALIBRATION FACTOR	CONF. OR QUANT.	RT	CALIBRATION FACTOR	CONF. OR QUANT.	PERCENT DIFF.**
alpha-BHC								
beta-BHC								
delta-BHC								
gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor Epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endrin Aldehyde								
Endosulfan Sulfate								
4,4'-DDT								
Methoxychlor								
Endrin Ketone								
Tech. Chlordane								
alpha-Chlordane*								
gamma-Chlordane*								
Toxaphene								
Aroclor - 1016								
Aroclor - 1221								
Aroclor - 1232								
Aroclor - 1242								
Aroclor - 1248								
Aroclor - 54	~~15~~ 15.47	0.02	81		15.47	79	~~79~~ 15	2.5
Aroclor - 1260								

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Pesticide/PCB Identification

Case No. puffer

Laboratory NUS.

Contract No.

SAMPLE ID	PRIMARY COLUMN	PESTICIDE/ PCB	RT OF TENTATIVE ID	RT WINDOW OF APPROPRIATE STANDARD	CONFIRMATION COLUMN	RT ON CONFIRMATORY COLUMN	RT WINDOW OF APPROPRIATE STANDARD	GC/MS CONFIRMED (Y or N)
08-25	1.5% SP2250 1.95% SP2401	1242	2.48	0.05	SPB-5	6.18	0.03	N
08-27			2.48			6.18		
08-30			2.48			6.17		
08-32			2.47 ~~2.48~~ KS			6.17		
08-34			2.47			6.18		
08-36			2.48			6.17		
08-37			2.47			6.17		
08-38			2.53			6.17		
KS ~~08-40~~								
08-42			2.50			6.17		
08-45			2.48			6.19		
08-46			2.48			6.17		
08-48			2.48			6.17		
KS 08-~~80~~51			2.46			6.18		
08-82			2.46			6.19		
08-88			2.47			6.18		
08-89			2.47			6.18		
08-93			2.48			6.21		
08-94			2.48			6.21		
08-50			2.50			6.17		
08-90			2.51			6.17		
08-91			2.50			6.15		
08-92			2.48			6.18		

Pesticide/PCB Identification

Case No. puffer

Laboratory NUS

Contract No.

SAMPLE ID	PRIMARY COLUMN	PESTICIDE/ PCB	RT OF TENTATIVE ID	RT WINDOW OF APPROPRIATE STANDARD	CONFIRMATION COLUMN	RT ON CONFIRMATORY COLUMN	RT WINDOW OF APPROPRIATE STANDARD	GC/MS CONFIRMED (Y or N)
08-07	1.58 SP2250 1.78 SP2401	1242	2.50	0.05	SPB-5	6.15	0.03	N
08-10	↓	↓	2.51	↓	↓	6.15	↓	↓
08-12	↓	↓	2.51	↓	↓	6.18	↓	↓
08-15	↓	↓	2.50	↓	↓	6.14	↓	↓
08-17	↓	↓	2.51	↓	↓	6.15	↓	↓
08-18	↓	↓	2.50	↓	↓	6.14	↓	↓
08-20	↓	↓	2.50	↓	↓	6.15	↓	↓
08-132	↓	↓	2.49	↓	↓	6.18	↓	↓
08-145	↓	↓	2.48	↓	↓	6.15	↓	↓