IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

March 16, 1993

Mr. Harry Gregory
Roux Associates
775 Park Avenue, Suite 255
Huntington, NY 11743

Dear Mr. Gregory:

Please find enclosed the analytical results of 1 aqueous and 4 soil samples received at our laboratory on February 2, 1993. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definitions of data qualifiers and terminology
- analytical results
- chain-of-custody

IEA Report #30930-0060B	Purchase Order #05526Y
Project ID: Amtrak Sunnyside	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 261-4458 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC/mt

30930-0060B
ROUX ASSOCIATES
SAMPLE SUMMARY

Client ID	Lab ID	Matrix	Date Collected	Date Received
CMW-31	0060032	Soil	02/01/93	02/02/93
CS-49	0060033	Soil	02/01/93	02/02/93
CS-53	0060034	Soil	02/01/93	02/02/93
CS-64	0060035	Soil	02/01/93	02/02/93
FB 020193	0060036	Aqueous	02/01/93	02/02/93

PROJECT SUMMARY

The client requested the samples be analyzed for PCB's.

METHODOLOGY

Polychlorinated biphenyls (PCB's) were determined using GC/ECD. The instrumentation used was a HP Model 5890 gas chromatograph equipped with an electron capture detector (Ni^{63}).

The analyses were conducted according to NYSDEC '91 ASP Protocols.

DISCUSSION

Extractions - Sample FB 020193 was extracted at half volume, surrogate was injected at 0.5 mLs and final volume was 5.0 mLs; the CRQL was not elevated.

PCB's - Samples CMW-31, CS-49, CS-53 and CS-64 were confirmed by GC/MS for Aroclor 1260.

Due to high levels of Aroclor 1260, all soil samples required a dilution and sample CS-64 MSD had zero percent recovery.

Due to matrix interference, the first peak for Aroclor 1260 was outside the RT window in samples CMW-31 and CMW-31 DL on column DB-1701.

Method blank PBLK85 was contaminated with Aroclors 1248 and 1260, but below the CRQL limits.

Due to a large discrepancy between the results on the RTX-35 and DB-1701 columns, the result for sample CS-53 was taken from the RTX-35 column. Sample CS-53 DL which was within the calibration limits has a much lower percent RPD.

DCB was below advisory QC limits on column 1 in samples FB 020193 and MSB CS-64,

the QC check standard, and method blanks PBLK82 and PBLK85. DCB was below advisory QC limits on column 2 in sample FB 020193 and the QC check standard.

TCX was below advisory QC limits on column 1 in sample MSB CS-64, the QC check standard and method blank PBLK85.

Surrogates were diluted out in all samples with a dilution factor of 100 or higher.

Due to the sample matrix, DCB was lost in samples CS-64 MS, CS-64 MSD, CS-64 and CS-49.

DCB was above advisory QC limits on both columns in sample CMW-31; DCB was above advisory QC limits on column 1 in sample CS-49.

RESULTS

The results are presented in the following Tables. Also enclosed are the data packages containing all relevant data.

TABLE 1.0 Aqueous
30930-0060B
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB'S)

All values are ug/L.

	Sample Identification		
Dilution Factor	1.0	1.0	
Method Blank I.D.	PBLK82	PBLK82	
Compound	Method Blank	FB 020193	Quantitation Limits with no Dilution
Aroclor - 1016	U	U	1.0
Aroclor - 1221	U	U	2.0
Aroclor - 1232	U	U	1.0
Aroclor - 1242	U	U	1.0
Aroclor - 1248	U	U	1.0
Aroclor - 1254	U	U	1.0
Aroclor - 1260	U	U	1.0

U - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

Soil

TABLE 1.1
30930-0060B
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB'S)

All values are ug/Kg.

Sample Identification

Dilution Factor	1.0	12.1	121	11.4	114	114	
Method Blank I.D.	PBLK85	PBLK85	PBLK85	PBLK85	PBLK85	PBLK85	
Compound	Method Blank	CMW-31	CMW-31 DL	CS-49	CS-49 DL	CS-53	Quantitation Limits with no Dilution
Aroclor - 1016	U	U	U	U	U	U	33
Aroclor - 1221	U	U	U	U	U	U	67
Aroclor - 1232	U	U	U	U	U	U	33
Aroclor - 1242	U	U	U	U	U	U	33
Aroclor - 1248	22J	U	U	U	U	U	33
Aroclor - 1254	U	U	U	U	U	U	33
Aroclor - 1260	22JP	8,400BC	10,000BCD	14,000BCP	17,000BCDP	150,000BCP	33

Sample Identification

Dilution Factor	1,140	12.1	121	12.1	12.1	
Method Blank I.D.	PBLK85	PBLK85	PBLK85	PBLK85	PBLK85	
Compound	CS-53 DL	CS-64	CS-64 DL	CS-64 MS	CS-64 MSD	Quantitation Limits with no Dilution
Aroclor - 1016	U	U	U	U	U	33
Aroclor - 1221	U	U	U	U	U	67
Aroclor - 1232	U	U	U	U	U	33
Aroclor - 1242	U	U	U	U	U	33
Aroclor - 1248	U	U	U	U	U	33
Aroclor - 1254	U	U	U	U	U	33
Aroclor - 1260	88,000BCDP	1,500BCP	2,500BCDJ	1,800BP	1,500P	33

U, J, B, C, D, P - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the IEA-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

IEA-Connecticut
Certification Summary (as of June 1992)

State	Responsible Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Kansas	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	E-210/E-1185
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	252891
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43

IEA
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200 Monroe Turnpike
Monroe, Connecticut 06468

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SAMPLE DATA SUMMARY PACKAGE

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
IEA ID:	30930-0060B

Sunrise, Florida 305·846·1730
Schaumburg, Illinois 708·705·0740
N. Billerica, Massachusetts 617·272·5212
Whippany, New Jersey 201·428·8181
Research Triangle Park, North Carolina 919·677·0090
Essex Junction, Vermont 802·878·5138

APPENDIX A
NYSDEC ANALYTICAL DATA FORMS

JOB # : 3093-0060B

CLIENT NAME : ROUX ASSOCIATES

PROJECT ID : AMTRAK SUNNYSIDE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

JOB # : 3093-00606

CUSTOMER SAMPLE CODE	LABORATORY SAMPLE CODE	ANALYTICAL REQUIREMENTS*						
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	*OTHER	*OTHER
CMW-31	0060032		X		X			
CS-49	0060033		X		X			
CS-53	0060034		X		X			
CS-64	0060035		X		X			
FB 2/1/93	0060036				X			

* Check Appropriate Boxes

* CLP, Non-CLP
* HSL, Priority Pollutant

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
FB020193	WATER	02/01/93	02/02/93	02/02/93	02/11/93
CMW-31	SOIL			02/03/93	02/18/93
CMW-31DL					〃
CS-49					02/20/93
CS-49DL					02/18/93
CS-53					02/20/93
CS-53DL					〃
CS-64					〃
CS-64DL					02/27/93
CS-64MS					〃
CS-64MSD					〃
QC CHECK STD	〃	〃	〃	〃	02/20/93

SDG NARRATIVE

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
IEA ID:	30930-0060B

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

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30930-0060B
ROUX ASSOCIATES

SDG Narrative

Extractions - Sample FB 020193 was extracted at half volume, surrogate was injected at 0.5 mLs and final volume was 5.0 mLs; the CRQL was not elevated.

PCB's - Samples CMW-31, CS-49, CS-53 and CS-64 were confirmed by GC/MS for Aroclor 1260.

Due to high levels of Aroclor 1260, all soil samples required a dilution and sample CS-64 MSD had zero percent recovery.

Due to matrix interference, the first peak for Aroclor 1260 was outside the RT window in samples CMW-31 and CMW-31 DL on column DB-1701.

Method blank PBLK85 was contaminated with Aroclors 1248 and 1260, but below the CRQL limits.

Due to a large discrepancy between the results on the RTX-35 and DB-1701 columns, the result for sample CS-53 was taken from the RTX-35 column. Sample CS-53 DL which was within the calibration limits has a much lower percent RPD.

DCB was below advisory QC limits on column 1 in samples FB 020193 and MSB CS-64, the QC check standard, and method blanks PBLK82 and PBLK85. DCB was below advisory QC limits on column 2 in sample FB 020193 and the QC check standard.

TCX was below advisory QC limits on column 1 in sample MSB CS-64, the QC check standard and method blank PBLK85.

Surrogates were diluted out in all samples with a dilution factor of 100 or higher.

Due to the sample matrix, DCB was lost in samples CS-64 MS, CS-64 MSD, CS-64 and CS-49.

DCB was above advisory QC limits on both columns in sample CMW-31; DCB was above advisory QC limits on column 1 in sample CS-49.

I certify that this data package is in compliance with the terms of this contract, both technically and for completeness, for other than the conditions detailed above. Release of this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Jeffrey C. Curran
Laboratory Manager

March 16, 1993
Date

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CMW31 023

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060032

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209375.D

% Moisture: 18 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/18/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	820	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	8400	B

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CMW31DL 034

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060032DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209374.D

% Moisture: 18 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/18/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	4000	U
11104-28-2	Aroclor-1221	8200	U
11141-16-5	Aroclor-1232	4000	U
53469-21-9	Aroclor-1242	4000	U
12672-29-6	Aroclor-1248	4000	U
11097-69-1	Aroclor-1254	4000	U
11096-82-5	Aroclor-1260	10000	CBD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS49 049

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060033

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209407.D

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/20/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	760	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	14000	C P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS49DL 060

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060033DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209377.D

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/18/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3800	U
11104-28-2	Aroclor-1221	7600	U
11141-16-5	Aroclor-1232	3800	U
53469-21-9	Aroclor-1242	3800	U
12672-29-6	Aroclor-1248	3800	U
11097-69-1	Aroclor-1254	3800	U
11096-82-5	Aroclor-1260	17000	C BPD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS53 07

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060034

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209414.D

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/20/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3800	U
11104-28-2	Aroclor-1221	7600	U
11141-16-5	Aroclor-1232	3800	U
53469-21-9	Aroclor-1242	3800	U
12672-29-6	Aroclor-1248	3800	U
11097-69-1	Aroclor-1254	3800	U
11096-82-5	Aroclor-1260	150000 ~~10000~~	C B P

VA 3/15/93

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS53DL 085

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060034DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209413.D

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/20/93

Injection Volume: 1.0(uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38000	U
11104-28-2	Aroclor-1221	76000	U
11141-16-5	Aroclor-1232	38000	U
53469-21-9	Aroclor-1242	38000	U
12672-29-6	Aroclor-1248	38000	U
11097-69-1	Aroclor-1254	38000	U
11096-82-5	Aroclor-1260	88000	C BPD

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS64DL

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060035DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5041177.D

% Moisture: 18 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/27/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	4000	U
11104-28-2	Aroclor-1221	8200	U
11141-16-5	Aroclor-1232	4000	U
53469-21-9	Aroclor-1242	4000	U
12672-29-6	Aroclor-1248	4000	U
11097-69-1	Aroclor-1254	4000	U
11096-82-5	Aroclor-1260	2500	JBD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB020193

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) WATER Lab Sample ID: 0060036

Sample wt/vol: 500 (g/mL) ML Lab File ID: B5037147.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 02/02/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

2E
WATER PESTICIDE SURROGATE RECOVERY

013

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK82	62	76	44*	74			1
02	FB020193	~~38*~~	~~32*~~	~~16*~~	~~18*~~			~~2~~ 1
03		76.	63.	31.*	36.*			
04								
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	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	QCCKSTD	57*	78	54*	59*			3
02	PBLK85	53*	79	41*	60			2
03	CS64MSB	42*	71	59*	64			2
04	CS64DL	0D	0D	0D	0D			0
05	CS64MS	99	123	0D	0D			0
06	CS64MSD	88	106	0D	0D			0
07								
08								
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	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column(1): RTX-35 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	CMW31DL	0D	0D	0~~104~~	0D			0
02	CMW31	103	88	158D	155D			0
03	CS49DL	0D	0D	0D	0D			0
04	CS49	102	97	284D	0D			0
05	CS53DL	0D	0D	0D	0D			0
06	CS53	0D	0~~454~~D	0D	0D			0
07	CS64	100	81	0D	0D			0
08								
09								
10								
11								
12								
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16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate ~~Recovery~~
Results Reported as ug/L mg/Kg (ug/Kg)

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0060B SAS No.: _____ SDG No.: B0060

Matrix Spike - EPA Sample No.:

CS-64 MSB

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
AR1260	330.	0.	200.	61.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments: _____

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate Recovery
Results Reported as ug/L mg/Kg ug/Kg

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 006015 SAS No.: _____ SDG No.: B0060

Matrix Spike - EPA Sample No.:
QC CHECK STD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
Ar 1242	330.	0	220.	67.
Ar 1260	330.	0	240.	73.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments: _____

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate ~~Recovery~~
Results Reported as ug/L mg/Kg ~~ug~~/Kg

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0060B SAS No.: _____ SDG No.: B0060

Matrix Spike - EPA Sample No.:
CS-64 MS/MSD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
AR1260	~~400.~~ adj 1/12	1500.	1800.	75.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD
AR1260	400.	1500.	0	~~18.~~ 200. adj 1/12

Comments: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK85

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0203-B02 Lab File ID: B5041166.D

Matrix:(soil/water) SOIL Extraction:(SepF,Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 02/03/93

Date Analyzed (1): 02/27/93 Date Analyzed (2): 03/04/93

Time Analyzed (1): 0157 Time Analyzed (2): 1637

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column (1):DB-1701 ID: 0.53(mm) GC Column (2):RTX-35 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CMW31	0060032	02/27/93	02/18/93
02	CMW31DL	0060032DL	02/27/93	02/18/93
03	CS49	0060033	02/27/93	02/20/93
04	CS49DL	0060033DL	02/27/93	02/18/93
05	CS53	0060034	02/27/93	02/20/93
06	CS53DL	0060034DL	02/27/93	02/20/93
07	CS64	0060035	02/27/93	02/20/93
08	CS64DL	0060035DL	02/27/93	03/05/93
09	CS64MS	0060035MS	02/27/93	03/05/93
10	CS64MSB	0060035MSB	02/27/93	03/04/93
11	CS64MSD	0060035MSD	02/27/93	03/05/93
12	QCCKSTD	0060035STD	02/20/93	03/04/93
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK85 53

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0203-B02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5041166.D

% Moisture: 0 decanted: (Y/N) N Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/27/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	22	J
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	22	JP

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK82 020

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0202-B03 Lab File ID: B5037145.D

Matrix:(soil/water) WATER Extraction:(SepF,Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 02/02/93

Date Analyzed (1): 02/11/93 Date Analyzed (2): 03/04/93

Time Analyzed (1): 1027 Time Analyzed (2): 2359

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column (1):DB-1701 ID: 0.53(mm) GC Column (2):RTX-35 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FB020193	0060036	02/11/93	03/04/93
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
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22				
23				
24				
25				
26				

COMMENTS: _____

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK82

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060 521

Matrix: (soil/water) WATER Lab Sample ID: 0202-B03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: B5037145.D

% Moisture: _____ decanted: (Y/N)___ Date Received: / /

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/02/93

Concentrated Extract Volume: 10000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

SAMPLE DATA PACKAGE

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
IEA ID:	30930-0060B

Sunrise, Florida 305·846·1730
Schaumburg, Illinois 708·705·0740
N. Billerica, Massachusetts 617·272·5212
Whippany, New Jersey 201·428·8181
Research Triangle Park, North Carolina 919·677·0090
Essex Junction, Vermont 802·878·5138

APPENDIX A
NYSDEC ANALYTICAL DATA FORMS

JOB # : 3093-00608

CLIENT NAME : ROUX ASSOCIATES

PROJECT ID : AMTRAK SUNNYSIDE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

JOB # : 3093-00605

CUSTOMER SAMPLE CODE	LABORATORY SAMPLE CODE	ANALYTICAL REQUIREMENTS*						
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	*OTHER	*OTHER
CMW-31	0060032		X		X			
CS-49	0060033		X		X			
CS-53	0060034		X		X			
CS-64	0060035		X		X			
FB 2/1/93	0060036				X			

* Check Appropriate Boxes

* CLP, Non-CLP
* HSL, Priority Pollutant

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
FB020193	WATER	02/01/93	02/02/93	02/02/93	02/11/93
CMW-31	SOIL			02/03/93	02/18/93
CMW-31DL					"
CS-49					02/20/93
CS-49DL					02/18/93
CS-53					02/20/93
CS-53DL					"
CS-64					"
CS-64DL					02/27/93
CS-64MS					"
CS-64MSD					"
CS-64MSD					"
QC CHECK STD	"	"	"	"	02/20/93

SDG NARRATIVE

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
IEA ID:	30930-0060B

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

005

30930-0060B
ROUX ASSOCIATES

SDG Narrative

Extractions - Sample FB 020193 was extracted at half volume, surrogate was injected at 0.5 mLs and final volume was 5.0 mLs; the CRQL was not elevated.

PCB's - Samples CMW-31, CS-49, CS-53 and CS-64 were confirmed by GC/MS for Aroclor 1260.

Due to high levels of Aroclor 1260, all soil samples required a dilution and sample CS-64 MSD had zero percent recovery.

Due to matrix interference, the first peak for Aroclor 1260 was outside the RT window in samples CMW-31 and CMW-31 DL on column DB-1701.

Method blank PBLK85 was contaminated with Aroclors 1248 and 1260, but below the CRQL limits.

Due to a large discrepancy between the results on the RTX-35 and DB-1701 columns, the result for sample CS-53 was taken from the RTX-35 column. Sample CS-53 DL which was within the calibration limits has a much lower percent RPD.

DCB was below advisory QC limits on column 1 in samples FB 020193 and MSB CS-64, the QC check standard, and method blanks PBLK82 and PBLK85. DCB was below advisory QC limits on column 2 in sample FB 020193 and the QC check standard.

TCX was below advisory QC limits on column 1 in sample MSB CS-64, the QC check standard and method blank PBLK85.

Surrogates were diluted out in all samples with a dilution factor of 100 or higher.

Due to the sample matrix, DCB was lost in samples CS-64 MS, CS-64 MSD, CS-64 and CS-49.

DCB was above advisory QC limits on both columns in sample CMW-31; DCB was above advisory QC limits on column 1 in sample CS-49.

I certify that this data package is in compliance with the terms of this contract, both technically and for completeness, for other than the conditions detailed above. Release of this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Jeffrey C. Curran
Laboratory Manager

March 16, 1993
Date

Sunrise, Florida 305·846·1730
Schaumburg, Illinois 708·705·0740
N. Billerica, Massachusetts 617·272·5212
Whippany, New Jersey 201·428·8181
Research Triangle Park, North Carolina 919·677·0090
Essex Junction, Vermont 802·878·5138

CLIENT CHAINS OF CUSTODY

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
IEA ID:	30930-0060B

3093-0060 (B)

ROUX

CHAIN OF CUSTODY

№ 01346 Y

ROUX ASSOCIATES INC 775 PARK AVENUE, SUITE 255
Consulting Ground-Water Geologists & Engineers HUNTINGTON, NEW YORK 11743
(516) 673-7200 FAX. (516) 673-7216

PROJECT NAME: AMTRAK/Sunnyside
PROJECT NUMBER: 05526Y
PROJECT LOCATION: Sunnyside, Queens, NY.
SAMPLER(S): HG, DK

ANALYSES — PAGE 1 OF 1

SAMPLE DESIGNATION/LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PCBs	LAB #s				TOTAL BOTTLES	NOTES
CMW-31	2/1/93	1225	Soil	↓	032				2	
CS-49	↓	1320	↓		033				2	
CS-53		1335			034				2	
CS-64 (MS/MSD)		1410			035				4	
FIB		1230	H2O		036				1	High Detection Limit

RELINQUISHED BY: (SAMPLER'S SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
[signature]	Roux	2/1/93	17:30	(Y) OR N	[signature]	IEA CT	2-2-93	1000	(Y) OR N
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N
RELINQUISHED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N	RECEIVED BY: (SIGNATURE)	FOR	DATE	TIME	SEAL INTACT Y OR N

DELIVERY METHOD: FED Ex.
ANALYTICAL LABORATORY: IEA — CT.
COMMENTS: # 596564288 5

007

FEDERAL EXPRESS

QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER 596564288

2330N 5965642885

RECIPIENT'S COPY

1 Date 2/1/93

From (Your Name) Please Print: Mr. Christopher Clark
Your Phone Number (Very Important): (203) 573-7200
Company: ROUX ASSOCIATES
Department/Floor No.:
Street Address: 773 PARK AVE STE 255
City: HUNTINGTON
State: NY
ZIP Required: 11743

2 To (Recipient's Name) Please Print: Sample Control
Recipient's Phone Number (Very Important): (203) 261-44
Company: IEA, Inc.
Department/Floor No.:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 200 Monroe Turnpike
City: Monroe
State: CT
ZIP Required: 06468

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.): 055264

H IF HOLD FOR PICK-UP, Print FEDEX Address Here
Street Address:
City:
State:
ZIP Required:

3 PAYMENT 1 [X] Bill Sender 2 [ ] Bill Recipient's FedEx Acct. No. 3 [ ] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card 5 [ ] Cash/Check

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning.)
- 11 [X] OTHER PACKAGING
- 15 [ ] FEDEX LETTER*
- 12 [ ] FEDEX PAK*
- 13 [ ] FEDEX BOX
- 14 [ ] FEDEX TUBE

Standard Overnight (Delivery by most business afternoon. No Saturday delivery.)
- 51 [ ] OTHER PACKAGING
- 56 [ ] FEDEX LETTER*
- 52 [ ] FEDEX PAK*
- 53 [ ] FEDEX BOX
- 54 [ ] FEDEX TUBE

Economy Two-Day (Delivery by second business day.†)
- 30 [ ] ECONOMY

Government Overnight (Restricted for authorized users only)
- 46 [ ] GOVT LETTER
- 41 [ ] GOVT PACKAGE

Freight Service (For packages over 150 lbs.)
- 70 [ ] OVERNIGHT FREIGHT** (Confirmation required)
- 80 [ ] TWO-DAY FREIGHT**

†Delivery commitment may be later in some areas. *Declared Value Limit $500. **Call for delivery schedule.

5 DELIVERY AND SPECIAL HANDLING (Check services required)

HOLD FOR PICK-UP (Fill in Box H) { 1 [ ] WEEKDAY or 31 [ ] SATURDAY }

DELIVER { 2 [X] WEEKDAY or 3 [ ] SATURDAY (Extra charge) (Not available to all locations) }

4 [ ] DANGEROUS GOODS (Extra charge)
Dry Ice, 9, UN 1845 ____ X ____ kg. kt

5 [ ]

6 [ ] DRY ICE Dangerous Goods Shipper's Declaration not required

7 [ ] OTHER SPECIAL SERVICE

9 [ ] SATURDAY PICK-UP (Extra charge)

[ ]

12 [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE (See right)
1	25	$1,000
Total 1	Total 25	Total $1,000

DIM SHIPMENT (Chargeable Weight) [ ] lbs.
L x W x H

Received At: [X] Regular Stop 2 [ ] On-Call Stop 3 [ ] Drop Box 4 [ ] B.S.C. 5 [ ] Station

7 Release Signature:

Emp. No. Date

[ ] Cash Received
[ ] Return Shipment
[ ] Third Party [ ] Chg. To Del. [ ] Chg. To Hold

Street Address

City State Zip

Received By: X

Date/Time Received 2-2-93 FedEx Employee Number 1000

Federal Express
Base Charges
Declared Value Charges
Other 1
Other 2
Total Charges

REVISION DATE 6/92
PART #137204 NCR5
FORMAT #136
136

LABORATORY CHAINS OF CUSTODY

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
IEA ID:	30930-0060B

ent : ROUX AMTRAK

IEA, I[illegible] CT
Internal Chain [illegible]ustody Form

IEA Job #: 3093-[illegible]060B

tody Seal: ~~present~~ / absent
: ~~intact~~ / not intact

d Chain
Custody : ~~present~~ / absent

0060B

Case # : ~
Airbill #: 896564285

Sample #s: 32-36
Location : 8, 41

ple Tags : present / ~~absent~~
: listed / not listed
Forms : present / ~~absent~~

Sample Custodian: G. ANGON / G. S (print) (signature) Date/Time: 2-2-93

oratory ple Number	Removed By (Full Signature)	Date	Time	Reason	Returned By (Full Signature)	Date	Time	Returned To Ref. #
36	[signature]	2/2	4pm	P/P EXT	[signature]			
-35	Marisa Cuddo	2/3	8:00	PCB EXT	Marisa Cuddo	2/3	12:00	41
3,34	Bradley B. Lin	2/15	1130	GC ANALYSIS	Bradley Blair	2/15	1400	
2,33	[signature]	2/17	2	—	[signature]	2/17	5	
35	Dean Sullo	2/19	8	GC P/P Analysis	Dean Sullo	2/16	9	
4-36	Dean Sullo	2/19	7	GC P/P Analysis	Dean Sullo	2/19	8	

Page ___ of ___

010

ORGANICS DATA

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
IEA ID:	30930-0060B

PCB'S

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
IEA ID:	30930-0060B

2E
WATER PESTICIDE SURROGATE RECOVERY

013

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK82	62	76	44*	74			1
02	FB020193	~~38*~~	~~32*~~	~~16*~~	~~18*~~			~~2~~ 1
03		76.	63.	31.*	36.*			
04								
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30								

adj 3/15

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	QCCKSTD	57*	78	54*	59*			3
02	PBLK85	53*	79	41*	60			2
03	CS64MSB	42*	71	59*	64			2
04	CS64DL	0D	0D	0D	0D			0
05	CS64MS	99	123	0D	0D			0
06	CS64MSD	88	106	0D	0D			0
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	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column(1): RTX-35 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	CMW31DL	0D	0D	0~~104~~	0D			0
02	CMW31	103	88	158D	155D			0
03	CS49DL	0D	0D	0D	0D			0
04	CS49	102	97	284D	0D			0
05	CS53DL	0D	0D	0D	0D			0
06	CS53	0D	0~~454~~D	0D	0D			0
07	CS64	100	81	0D	0D			0
08								
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	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate ~~Recovery~~
Results Reported as ug/L mg/Kg (ug/Kg)

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0060B SAS No.: _____ SDG No.: B0060

Matrix Spike - EPA Sample No.:

CS-64 MSB

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
AR1260	330.	0.	200.	61.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments: _____

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate Recovery
Results Reported as ug/L mg/Kg ~~ug/Kg~~

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 006015 SAS No.: _____ SDG No.: B0060

Matrix Spike - EPA Sample No.:

QC CHECK STD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
Ar 1242	330.	0	220.	67.
Ar 1260	330.	0	240.	73.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments: _____

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate ~~Recovery~~
Results Reported as ug/L mg/Kg ~~ug~~/Kg

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0060B SAS No.: _____ SDG No.: B0060

Matrix Spike - EPA Sample No.:
CS-64 MS/MSD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
Ar 1260	~~400.~~ 200.	1500.	1800.	75.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD
Ar 1260	400.	1500.	0	~~18.~~ 200.

Comments: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK85

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0203-B02 Lab File ID: B5041166.D

Matrix:(soil/water) SOIL Extraction:(SepF,Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 02/03/93

Date Analyzed (1): 02/27/93 Date Analyzed (2): 03/04/93

Time Analyzed (1): 0157 Time Analyzed (2): 1637

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column (1):DB-1701 ID: 0.53(mm) GC Column (2):RTX-35 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CMW31	0060032	02/27/93	02/18/93
02	CMW31DL	0060032DL	02/27/93	02/18/93
03	CS49	0060033	02/27/93	02/20/93
04	CS49DL	0060033DL	02/27/93	02/18/93
05	CS53	0060034	02/27/93	02/20/93
06	CS53DL	0060034DL	02/27/93	02/20/93
07	CS64	0060035	02/27/93	02/20/93
08	CS64DL	0060035DL	02/27/93	03/05/93
09	CS64MS	0060035MS	02/27/93	03/05/93
10	CS64MSB	0060035MSB	02/27/93	03/04/93
11	CS64MSD	0060035MSD	02/27/93	03/05/93
12	QCCKSTD	0060035STD	02/20/93	03/04/93
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK82 020

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0202-B03 Lab File ID: B5037145.D

Matrix:(soil/water) WATER Extraction:(SepF,Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 02/02/93

Date Analyzed (1): 02/11/93 Date Analyzed (2): 03/04/93

Time Analyzed (1): 1027 Time Analyzed (2): 2359

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column (1):DB-1701 ID: 0.53(mm) GC Column (2):RTX-35 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FB020193	0060036	02/11/93	03/04/93
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

PESTICIDE
INSTRUMENT DETECTION LIMITS.
HP58901A DILUTION FACTOR 1.0
DATE ANAL12/07/92 COL:RTX-35

Units are ug/L

COMPOUND	IDL	Q
ALPHA-BHC	0.005	0.05
BETA-BHC	0.002	0.05
DELTA-BHC	0.001	0.05
GAMMA-BHC	0.005	0.05
HEPTACHLOR	0.006	0.05
ALDRIN	0.001	0.05
HEPT.EPOXIDE	0.001	0.05
ENDOSULFAN 1	0.004	0.05
DIELDRIN	0.029	0.10
4,4'DDE	0.004	0.10
ENDRIN	0.012	0.10
ENDOSULFAN 2	0.008	0.10
4,4' DDD	0.021	0.10
ENDO. SULFATE	0.002	0.10
4,4' DDT	0.005	0.10
METHOXYCHLOR	0.105	0.50
ENDRIN KETONE	0.003	0.10
ENDRIN ALDEHYDE	0.005	0.10
ALPHA-CHLORDANE	0.000	0.05
GAMMA-CHLORDANE	0.001	0.05
TOXAPHENE	1.080	5.00
AROCLOR 1016	0.028	1.00
AROCLOR 1221	0.751	2.00
AROCLOR 1232	0.215	1.00
AROCLOR 1242	0.017	1.00
AROCLOR 1248	0.099	1.00
AROCLOR 1254	0.650	1.00
AROCLOR 1260	0.667	1.00

1

*

Instrument detection limits are based upon a one liter sample volume brought to a ten mililiter final volume.

PESTICIDE
INSTRUMENT DETECTION LIMITS.
HP58905B DILUTION FACTOR 1.0
DATE ANAL ~~12/21/92~~ 12/06/92 COL:DB-1701

Units are ug/L.

COMPOUND	IDL	Q
ALPHA-BHC	0.009	0.05
BETA-BHC	0.003	0.05
DELTA-BHC	0.003	0.05
GAMMA-BHC	0.011	0.05
HEPTACHLOR	0.010	0.05
ALDRIN	0.002	0.05
HEPT.EPOXIDE	0.002	0.05
ENDOSULFAN 1	0.001	0.05
DIELDRIN	0.012	0.10
4,4'DDE	0.003	0.10
ENDRIN	0.010	0.10
ENDOSULFAN 2	0.005	0.10
4,4' DDD	0.032	0.10
ENDO. SULFATE	0.003	0.10
4,4' DDT	0.015	0.10
METHOXYCHLOR	0.094	0.50
ENDRIN KETONE	0.006	0.10
ENDRIN ALDEHYDE	0.025	0.10
ALPHA-CHLORDANE	0.002	0.05
GAMMA-CHLORDANE	0.003	0.05
TOXAPHENE	1.523	5.00
AROCLOR 1016	0.092	1.00
AROCLOR 1221	0.439	2.00
AROCLOR 1232	0.235	1.00
AROCLOR 1242	0.068	1.00
AROCLOR 1248	0.033	1.00
AROCLOR 1254	0.052	1.00
AROCLOR 1260	0.075	1.00

Instrument detection limits are based upon a one liter sample volume brought to a ten mililiter final volume.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CMW31 023

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060032

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209375.D

% Moisture: 18 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/18/93

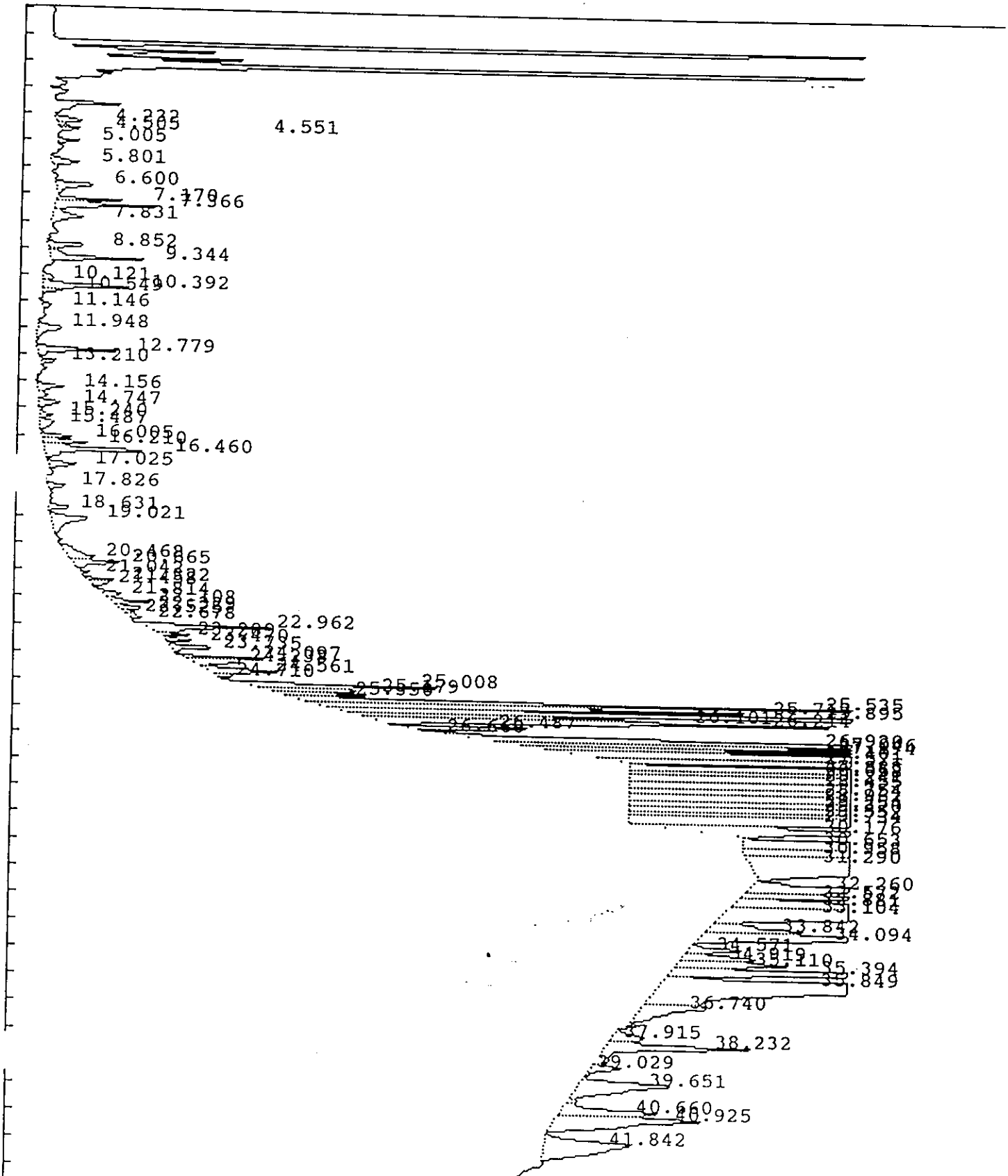
Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	820	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	8400	B

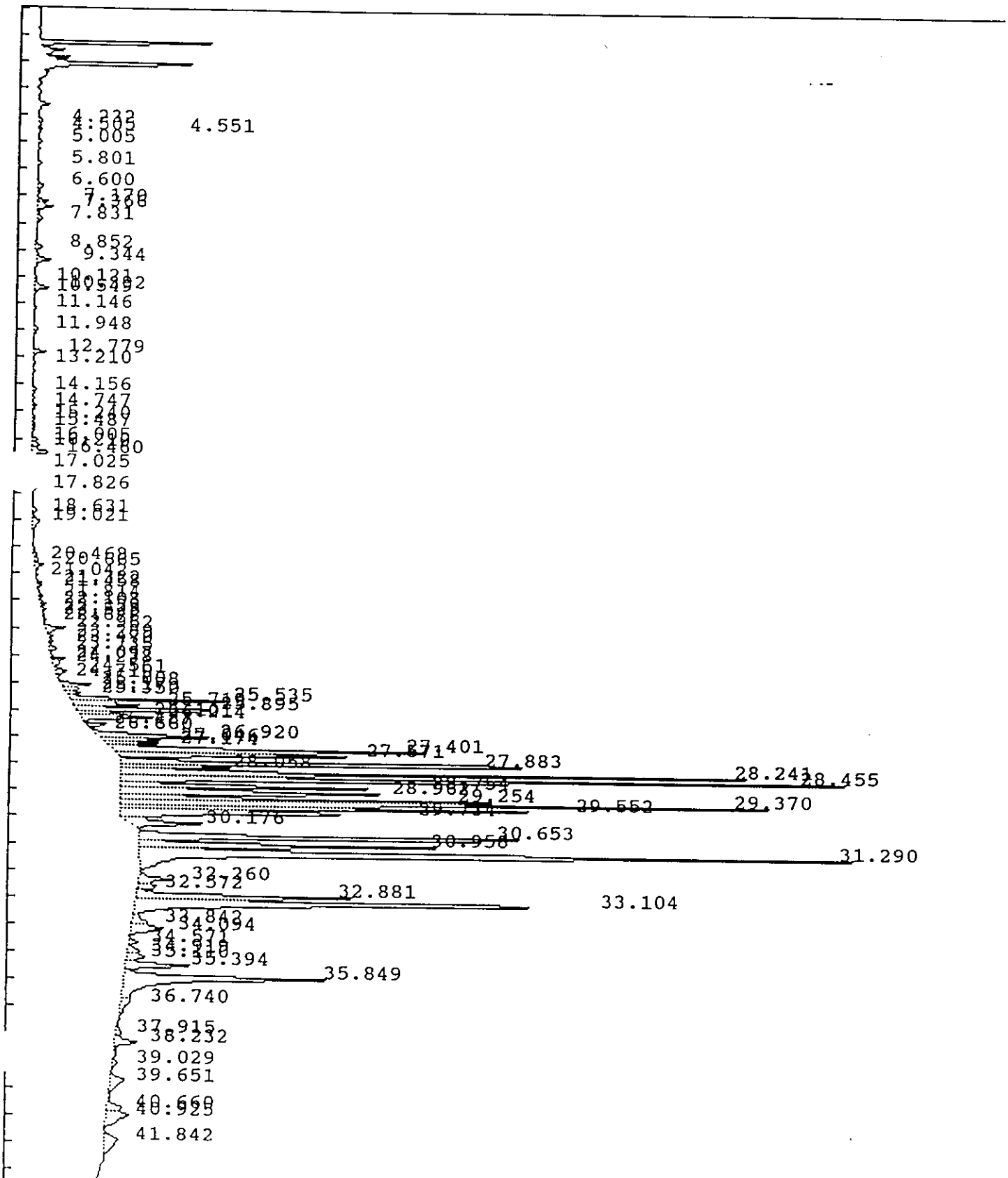
IEA Pesticide Standard Report

ample Name : 0060032 CMW-31 DF=10 Inj on 1740 18Feb1993
Result File :/DATA/LOOP/RESULT/A1209375.RES INSTRUMENT: HP58901A
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060032 CMW-31 DF=10 Inj on 1740 18Feb1993
Result File :/DATA/LOOP/RESULT/A1209375.RES INSTRUMENT: HP58901A
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060032 CMW-31 DF=10
Result File : /DATA/LOOP/RESULT/A1209375.RES
Column Type : RTX-35 30 Meter,0.53mm ID
Instrument : HP58901A
Calculation : ExternalSTD
Run Time : 46.25 Mins. Injected on 1740 18Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/A1209.SEQ
Subseq/Sample : 4/ 78

Report No :483.10
Inj. Vol. : 1 ul
Bottle no. : 78

% Dil-Fact
3333.00

Run Status : EndOffBaseline
SignalOverload

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.23		.147516	49349	BV	0.0000	
2	4.51		.071903	17555	VV	0.0000	
3	4.55		.068878	15252	VB	0.0000	
4	5.01		.086777	25866	BV	0.0000	
5	5.80		.178359	56173	BV	0.0000	
6	6.60		.172309	86446	PB	0.0000	
7	7.17		.097498	80644	BV	0.0000	
8	7.37		.125797	153209	VV	0.0000	
9	7.83		.229782	81394	VV	0.0000	
10	8.85		.136917	67857	PV	0.0000	
11	9.34		.130902	148621	VV	0.0000	
12	10.12		.185738	24222	BV	0.0000	
13	10.39		.136308	150603	VV	0.0000	
14	10.55		.115944	29846	VB	0.0000	
15	11.15		.129849	14380	BB	0.0000	
16	11.95		.282432	74889	PV	0.0000	
17	12.78	12.77	.129937	130364	PV	1.3732	Tetrachloro-m-xylene
18	13.21		.125757	27762	PV	0.0000	
19	14.16		.166533	53159	BV	0.0000	
20	14.75		.182781	45662	VV	0.0000	
21	15.24		.159391	23959	VV	0.0000	
22	15.49		.253892	42237	VV	0.0000	
23	16.00		.118762	45123	PV	0.0000	
24	16.21		.126558	69886	VV	0.0000	
25	16.46		.153608	204577	VV	0.0000	
26	17.02		.174094	54406	PV	0.0000	
27	17.83		.148881	34837	BV	0.0000	
28	18.63		.127470	32648	BB	0.0000	
29	19.02		.304527	139997	BB	0.0000	
30	20.47		.286867	99575	BV	0.0000	
31	20.67		.154423	96149	VV	0.0000	
32	21.04		.098996	12270	VV	0.0000	
33	21.32		.112020	40944	PV	0.0000	
34	21.46		.116555	27070	VB	0.0000	
35	21.81	21.78	.188896	45809	BV	.5441	~~delta-BHC~~
36	22.11		.110031	55844	VV	0.0000	
37	22.33		.126319	43652	VV	0.0000	
38	22.52		.107164	17289	VV	0.0000	
39	22.68		.111643	18909	VB	0.0000	

93%/11

IEA Pesticide Standard Report

c#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
40	22.96	22.99	.136746	217690	BV	2.2056	~~Aldrin~~
41	23.29		.097300	35823	VB	0.0000	
42	23.47		.082654	28144	BV	0.0000	
43	23.74		.156063	73479	PB	0.0000	
44	24.10		.092566	106152	BV	0.0000	
45	24.24		.133378	81733	VV	0.0000	
46	24.56		.135191	131505	VV	0.0000	
47	24.71		.089023	29241	VB	0.0000	
48	25.01	25.07	.111202	267905	BV	2.9368	~~Heptachlor epoxide~~
49	25.18		.101129	141610	VV	0.0000	
50	25.35		.129208	140647	VV	0.0000	
51	25.54		.089460	1156127	VV	0.0000	
52	25.72	25.72	.106325	606349	VV	6.2316	~~gamma-Chlordane~~
53	25.90		.096528	1354417	VV	0.0000	
54	26.10		.105368	432318	VV	0.0000	
55	26.21	26.22	.104035	640571	VB	6.1072	~~alpha-Chlordane~~
56	26.49		.071568	173058	BB	0.0000	
57	26.66		.067380	28906	BV	0.0000	
58	26.92	26.93	.131103	1157814	VV	14.5388	~~4,4'-DDE~~
59	27.05		.079491	403985	VV	0.0000	
60	27.17	27.15	.110975	469115	VV	5.2226	~~Dieldrin~~
61	27.40		.130826	3038800	VV	0.0000	
62	27.57		.113771	2090001	VB	0.0000	
63	27.88		.092406	4043647	BS	0.0000	
64	28.06		.091103	825360	HS	0.0000	
65	28.24		.086403	4525079	GS	0.0000	
66	28.45	28.45	.121269	6350026	GS	99.6456	~~4,4'-DDD~~
67	28.75		.089753	2017044	HS	0.0000	
68	28.96		.148648	3006410	HS	0.0000	
69	29.25		.089730	2757686	GS	0.0000	
70	29.37	29.32	.101878	5323352	GS	82.4558	~~4,4'-DDT~~
71	29.55	29.50	.097838	3346572	HS	56.6135	~~Endrin aldehyde~~
72	29.73		.133340	2829962	HS	0.0000	
73	30.18	Ar1260	.162252	960350	HS	0.0000	
74	30.65		.118241	4250273	BV	0.0000	9/23/11
75	30.96		.123087	2747666	VV	0.0000	
76	31.29		.179824	9174528	GS	0.0000	
77	32.26		.175316	446487	BV	0.0000	
78	32.57		.140415	211567	VV	0.0000	
79	32.88		.135236	2199962	VV	0.0000	
80	33.10		.161051	5479964	VV	0.0000	
81	33.84		.199248	223299	VV	0.0000	
82	34.09		.242512	558175	VB	0.0000	
83	34.57		.149953	98259	BV	0.0000	
84	34.92		.226886	186759	VV	0.0000	
85	35.11		.166719	215524	VV	0.0000	
86	35.39		.158791	751803	VV	0.0000	
87	35.85		.234938	3453069	VV	0.0000	
88	36.74		.310282	237020	VV	0.0000	
89	37.92		.276936	99364	BV	0.0000	
90	38.23		.192736	326622	VV	0.0000	
91	39.03		.203127	69866	VB	0.0000	
92	39.65		.367000	378982	BV	0.0000	
93	40.66	#40.67	.230829	252219	VV	2.1126	Decachlorobiphenyl
94	40.93		.337443	564894	VB	0.0000	

IEA Pesticide Standard Report

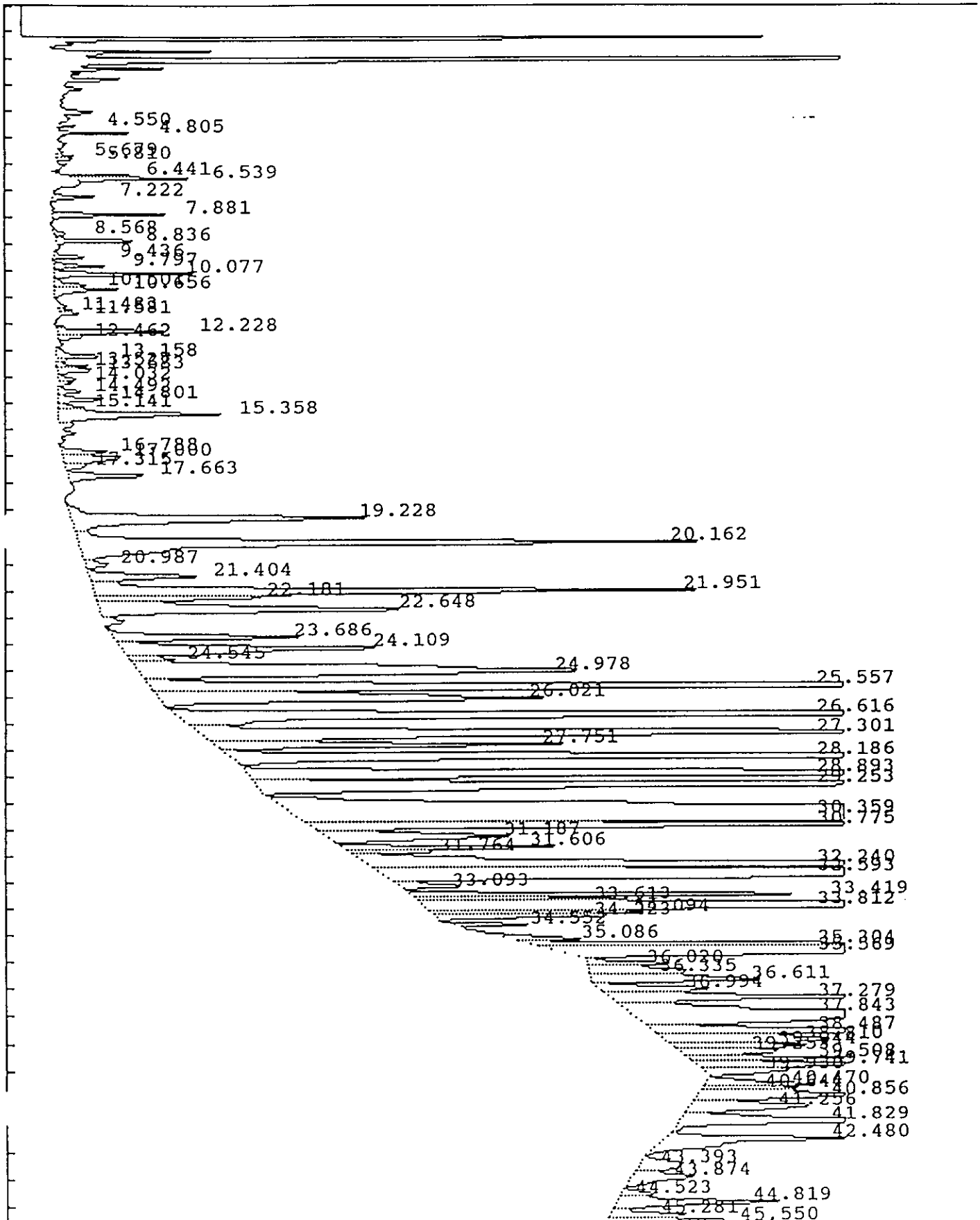
`k#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
95	41.84		.488977	480794	BV	0.0000	
96	44.02		.310541	225681	VV	0.0000	
97	45.16		.283308	127174	VV	0.0000	

Total Area : 83989280 Total PPB : 279.988

Report Time : 1855 22Feb1993
Method : /DATA/LOOP/METHOD/A1209_375.MT
Result File : /DATA/LOOP/RESULT/A1209375.RES

IEA Pesticide Standard Report

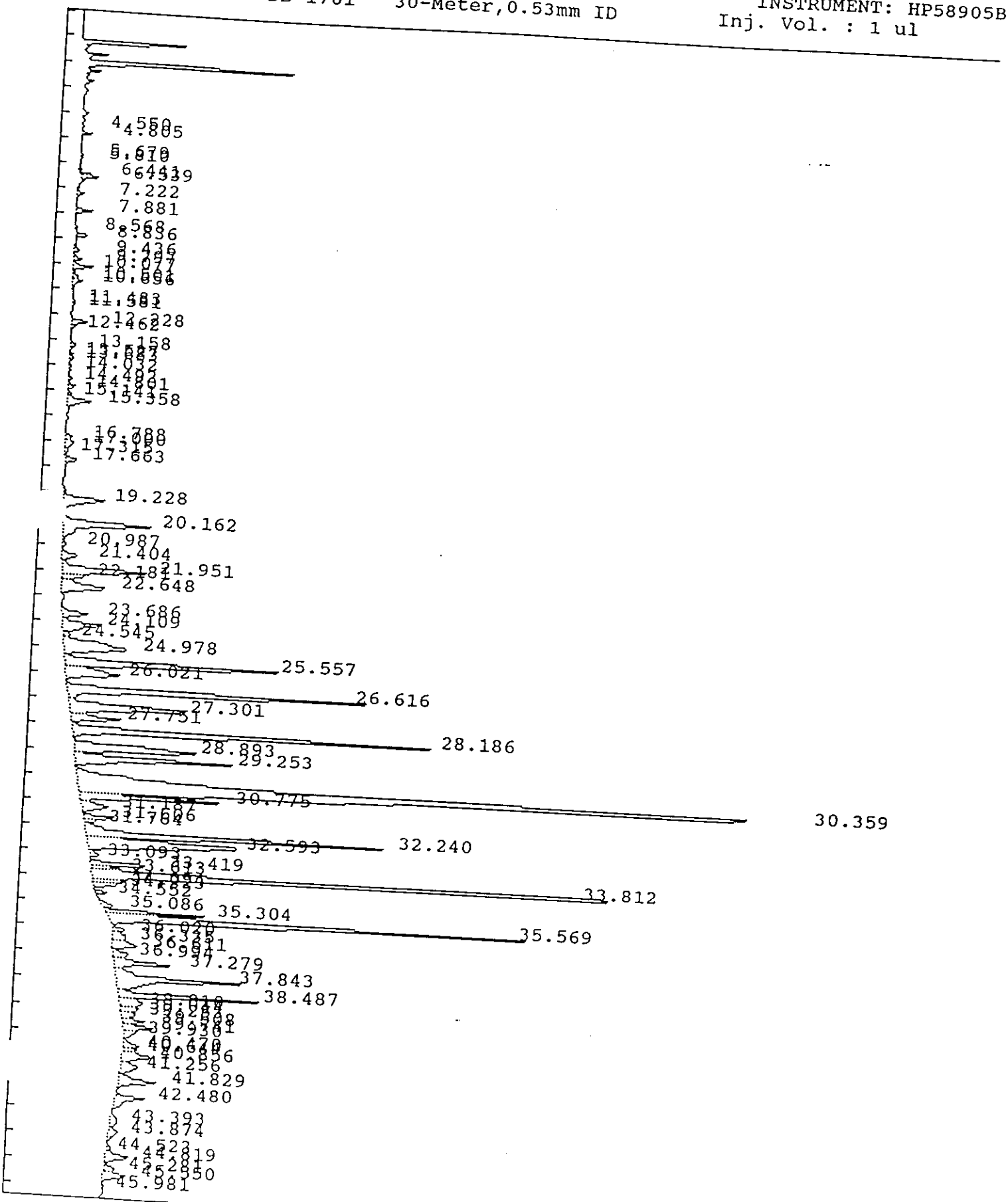
Sample Name : 0060032 CMW-31 DF=10 Inj on 0439 27Feb1993
Result File :/DATA/LOOP/RESULT/B5041169.RES INSTRUMENT: HP58905B
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060032 CMW-31 DF=10
Result File :/DATA/LOOP/RESULT/B5041169.RES
Column Type : DB-1701 30-Meter,0.53mm ID

Inj on 0439 27Feb1993
INSTRUMENT: HP58905B
Inj. Vol. : 1 ul



IEA Pesticide Standard Report

.mple Name : 0060032 CMW-31 DF=10
Result File : /DATA/LOOP/RESULT/B5041169.RES
Column Type : DB-1701 30 Meter,0.53mm ID
Instrument : HP58905B
Calculation : ExternalSTD
Run Time : 46.50 Mins. Injected on 0439 27Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/B5041.SEQ
Subseq/Sample : 2/ 70

Report No :125.10
Inj. Vol. : 1 ul
Bottle no. : 70

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.55		.056781	4665	PV	0.0000	
2	4.81		.052576	20998	PB	0.0000	
3	5.68		.116816	8371	VV	0.0000	
4	5.81		.063622	5199	VV	0.0000	
5	6.44		.060255	31520	BV	0.0000	
6	6.54		.074310	42905	VV	0.0000	
7	7.22		.095964	20095	BB	0.0000	
8	7.88	7.87	.096664	51735	BB	1.1776	Tetrachloro-m-xylene
9	8.57		.108741	6565	BV	0.0000	
10	8.84		.080005	40199	VV	0.0000	
11	9.44		.091260	16503	BV	0.0000	
12	9.80		.102014	24528	PV	0.0000	
13	10.08		.098784	69041	VV	0.0000	
14	10.50		.116000	18403	VV	0.0000	
15	10.66		.146913	39837	VV	0.0000	
16	11.48		.101307	5995	VV	0.0000	
17	11.58		.077076	7536	VB	0.0000	
18	12.23		.127134	68777	VV	0.0000	
19	12.46		.104157	10855	VB	0.0000	
20	13.16		.135622	28794	PV	0.0000	
21	13.53		.104276	13857	VV	0.0000	
22	13.68		.130767	21836	VV	0.0000	
23	14.03		.144904	11746	VV	0.0000	
24	14.49		.148617	14955	VV	0.0000	
25	14.80		.152531	30428	VV	0.0000	
26	15.14		.154168	18323	VV	0.0000	
27	15.36		.195409	135752	VV	0.0000	
28	16.79		.145172	28390	PV	0.0000	
29	17.00		.229214	57714	VV	0.0000	
30	17.32		.165134	14331	VV	0.0000	
31	17.66		.166830	57434	VV	0.0000	
32	19.23		.268539	314199	BV	0.0000	
33	20.16		.248431	618747	VV	0.0000	
34	20.99		.196195	19484	VV	0.0000	
35	21.40		.216262	95367	VV	0.0000	
36	21.95		.201343	489307	VV	0.0000	
37	22.18		.171275	114936	VV	0.0000	
38	22.65		.267521	328054	VV	0.0000	
39	23.69	23.67	.193802	144614	PV	4.0008	~~Gamma-Chlordane~~

qhs/11

IEA Pesticide Standard Report

#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
0	24.11	24.12	.247774	269134	VV	6.9692	~~alpha-Chlordane~~
41	24.54		.140318	26078	VV	0.0000	
42	24.98		.344933	628902	VV	0.0000	
43	25.56		.176195	1086167	VV	0.0000	
44	26.02		.278417	431288	VB	0.0000	
45	26.62		.162718	1402741	BV	0.0000	
46	27.30	27.29	.244382	839131	VV	31.9448	~~Endrin~~
47	27.75		.168580	249865	VV	0.0000	
48	28.19		.145517	1540567	VB	0.0000	
49	28.89		.216022	812653	BV	0.0000	
50	29.25		.182067	836311	VB	0.0000	
51	30.36	30.37	.264198	5502777	BV	216.8593	~~4,4'-DDD~~
52	30.78		.138588	578279	VV	0.0000	
53	31.19		.266154	196729	VB	0.0000	
54	31.61		.123825	121162	BV	0.0000	
55	31.76		.105719	40852	VV	0.0000	
56	32.24		.143227	1275061	VV	0.0000	
57	32.59	AR1260	.295466	1213193	VV	0.0000	
58	33.09		.171545	45161	VB	0.0000	
59	33.42		.123900	234843	BV	0.0000	
60	33.61		.101518	91374	VV	0.0000	
61	33.81		.132530	2373829	VV	0.0000	
62	34.09		.135493	117799	VV	0.0000	
63	34.22		.129821	95283	VB	0.0000	
64	34.55		.093185	36315	BB	0.0000	
65	35.09		.159500	56249	BV	0.0000	
66	35.30		.112720	335312	VV	0.0000	
67	35.57		.144749	1771528	VB	0.0000	
68	36.02		.160995	56130	BV	0.0000	
69	36.34	36.39	.242265	94730	VV	3.6858	~~Endrin ketone~~
70	36.61		.226119	163574	VB	0.0000	
71	36.99		.189467	91039	BV	0.0000	
72	37.28		.165119	291910	VV	0.0000	
73	37.84		.219807	817690	VV	0.0000	
74	38.49		.123973	521530	VV	0.0000	
75	38.81		.270400	178306	VV	0.0000	
76	39.04		.162565	89838	VV	0.0000	
77	39.25		.195430	80658	VV	0.0000	
78	39.51		.141394	97048	VV	0.0000	
79	39.74		.156039	138104	VV	0.0000	
80	39.93		.213442	75143	VB	0.0000	
81	40.47	#40.48	.179653	80419	BV	2.0673	Decachlorobiphenyl
82	40.64		.140380	53334	VV	0.0000	
83	40.86		.224207	182734	VV	0.0000	
84	41.26		.289269	136382	VV	0.0000	
85	41.83		.225315	234762	VB	0.0000	
86	42.48		.251242	207317	BB	0.0000	
87	43.39		.386162	65090	BV	0.0000	
88	43.87		.314486	76196	VB	0.0000	
89	44.52		.208219	26033	BV	0.0000	
90	44.82		.214824	142139	VV	0.0000	
91	45.28		.186246	56293	VV	0.0000	
92	45.55		.220546	147701	VB	0.0000	
93	45.98		.158271	9974	BV	0.0000	

Total Area : 29374660 Total PPB : 266.705

IEA Pesticide Standard Report

;port Time	:	2310 02Mar1993
;thod	:	/DATA/LOOP/METHOD/B5041_169.MT
Result File	:	/DATA/LOOP/RESULT/B5041169.RES

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CMW31DL 034

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060032DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209374.D

% Moisture: 18 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/18/93

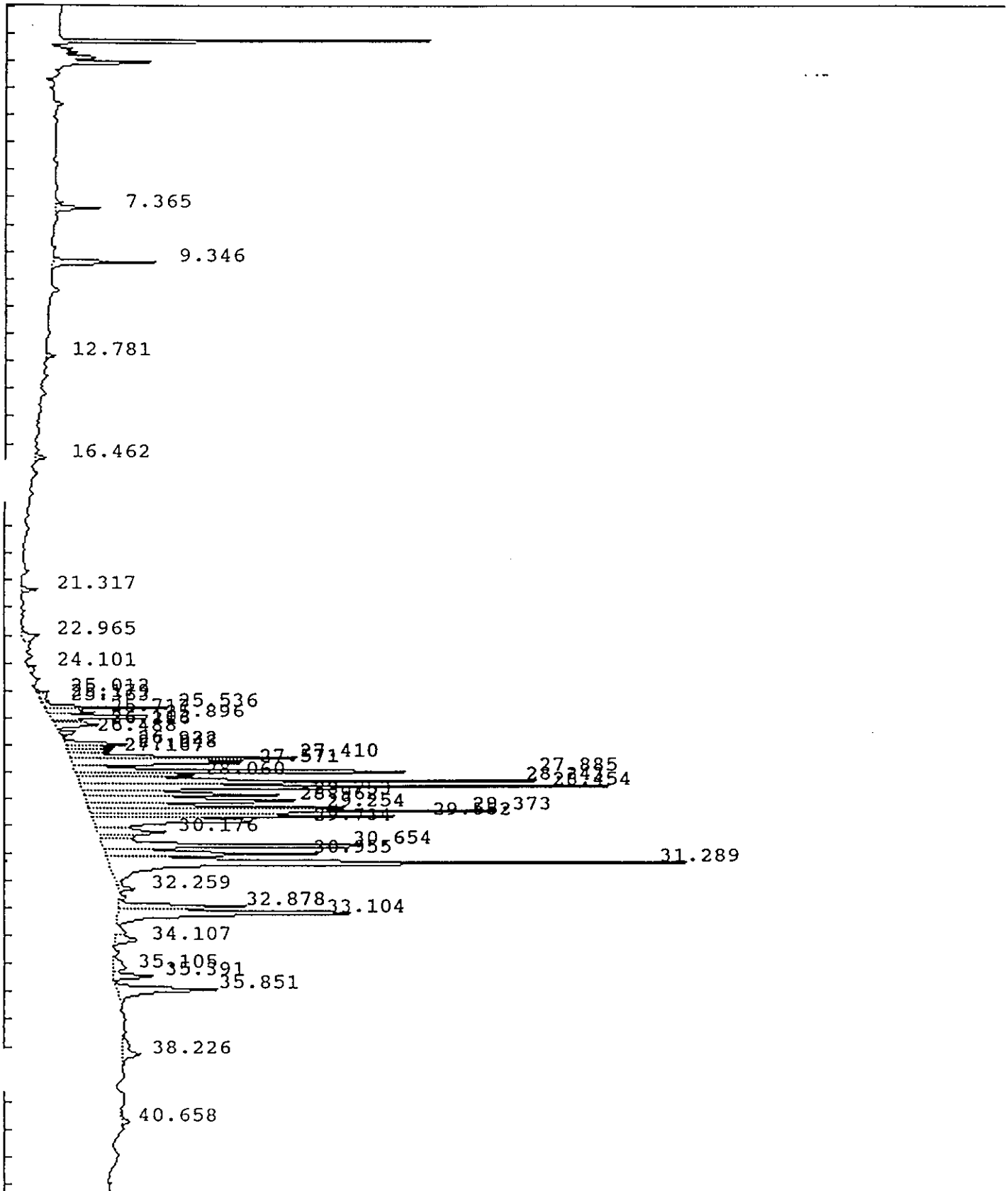
Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	4000	U
11104-28-2	Aroclor-1221	8200	U
11141-16-5	Aroclor-1232	4000	U
53469-21-9	Aroclor-1242	4000	U
12672-29-6	Aroclor-1248	4000	U
11097-69-1	Aroclor-1254	4000	U
11096-82-5	Aroclor-1260	10000	CBD

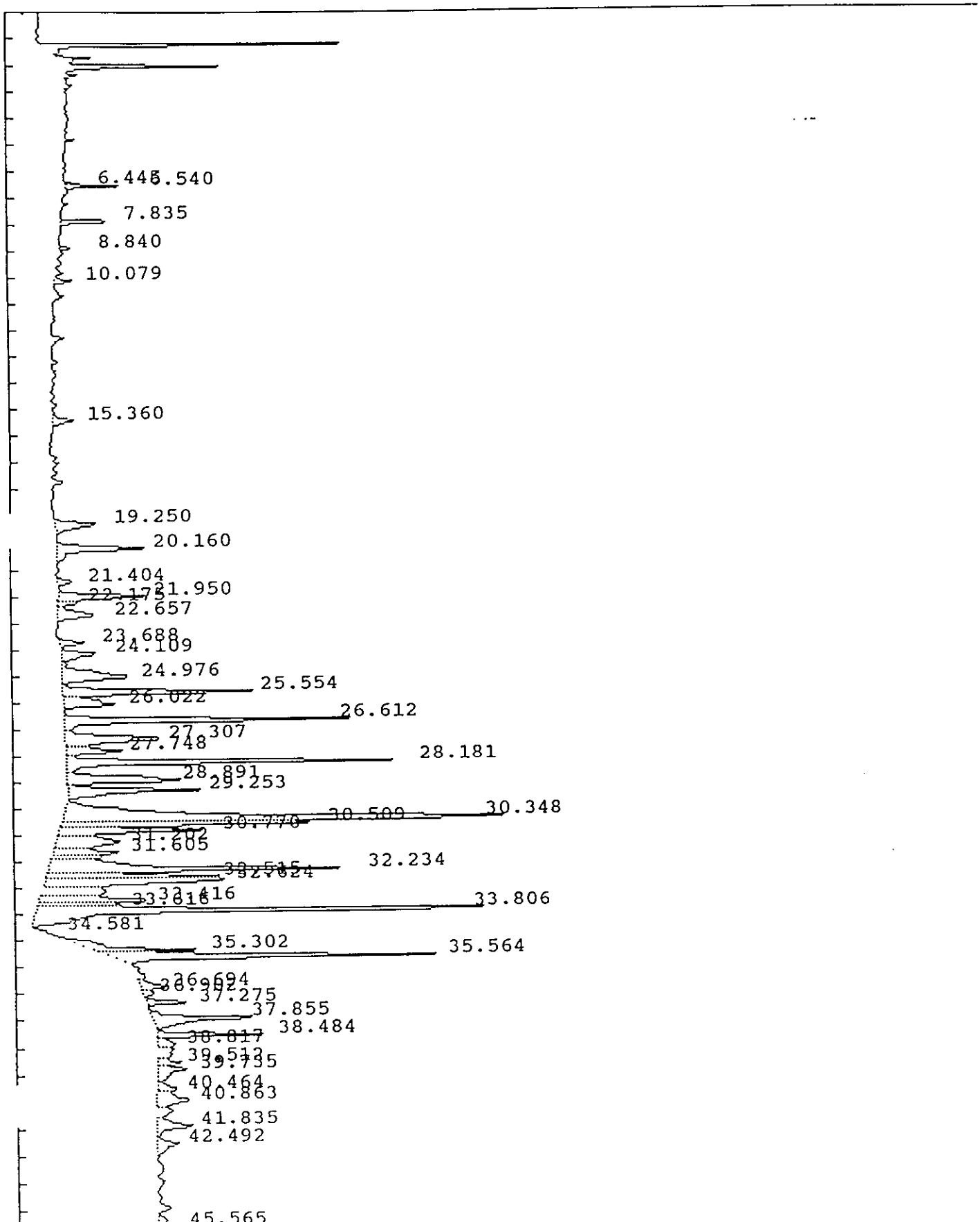
IEA Pesticide Standard Report

ample Name : 0060032 CMW-31 DF=100 Inj on 1646 18Feb1993
Result File :/DATA/LOOP/RESULT/A1209374.RES INSTRUMENT: HP58901A
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

mple Name : 0060032 CMW-31 DF=100 Inj on 0345 27Feb1993
sult File :/DATA/LOOP/RESULT/B5041168.RES INSTRUMENT: HP58905B
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060032 CMW-31 DF=100 Report No :482.10
Result File : /DATA/LOOP/RESULT/A1209374.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP58901A
Calculation : ExternalSTD
Run Time : 46.25 Mins. Injected on 1646 18Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/A1209.SEQ
Subseq/Sample : 4/ 77 Bottle no. : 77

% Dil-Fact
3333.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	7.36		.111197	62513	VB	0.0000	
2	9.35		.125243	158915	BB	0.0000	
3	12.78	12.77	.114105	14800	BB	.1559	~~Tetrachloro-m-xylene~~
4	16.46		.119284	15782	BB	0.0000	
5	21.32		.103845	21914	BB	0.0000	
6	22.97	22.99	.212489	48010	BV	.4864	~~Aldrin~~
7	24.10		.085808	10372	PV	0.0000	
8	25.01	25.07	.118919	18029	BV	.1976	~~Heptachlor epoxide~~
9	25.18		.125792	16624	VV	0.0000	
10	25.36		.099357	11214	VV	0.0000	
11	25.54		.089272	148675	VV	0.0000	
12	25.72	25.72	.108787	70219	VV	.7217	~~gamma-Chlordane~~
13	25.90		.103875	173401	VV	0.0000	
14	26.10		.092216	42738	VV	0.0000	
15	26.22	26.22	.103061	63001	VV	.6007	~~alpha-Chlordane~~
16	26.49		.075995	24632	VV	0.0000	
17	26.92	26.93	.129849	102679	BV	1.2894	~~4,4'-DDE~~
18	27.05		.088155	57036	VV	0.0000	
19	27.17	27.15	.127951	71101	VV	.7916	~~Dieldrin~~
20	27.41		.126407	370168	VV	0.0000	
21	27.57		.148058	312486	VV	0.0000	
22	27.88		.106832	578167	VV	0.0000	
23	28.06		.104264	157937	VV	0.0000	
24	28.24		.107075	651590	VV	0.0000	
25	28.45	28.45	.105137	792001	VV	12.4282	~~4,4'-DDD~~
26	28.75		.115740	313835	VV	0.0000	
27	28.96		.169596	439677	VV	0.0000	
28	29.25		.114246	389316	VV	0.0000	
29	29.37	29.32	.102664	540716	VV	8.3754	~~4,4'-DDT~~
30	29.55	29.50	.103880	421750	VV	7.1347	~~Endrin aldehyde~~
31	29.73		.152717	369157	VV	0.0000	
32	30.18	Arn60	.184002	159491	VV	0.0000	
33	30.65		.135170	542207	VV	0.0000	
34	30.95		.140612	362501	VV	0.0000	
35	31.29		.160793	1173767	VV	0.0000	
36	32.26		.129531	28581	VB	0.0000	
37	32.88		.132143	208801	BV	0.0000	
38	33.10		.174749	565304	VV	0.0000	
39	34.11		.222444	56914	VB	0.0000	
40	35.10		.302622	41270	VV	0.0000	

Qas/11

IEA Pesticide Standard Report

k#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
41	35.39		.152330	72104	VB	0.0000	
42	35.85		.205635	250126	BB	0.0000	
43	38.23		.332509	70464	BB	0.0000	
44	40.66	#40.67	.185893	16628	PV	.1393	Decachlorobiphenyl
45	44.01		.633238	74007	BV	0.0000	

Total Area : 10090624 Total PPB : 32.321

Report Time : 1754 18Feb1993
Method : /DATA/LOOP/METHOD/A1209_374.MT
Result File : /DATA/LOOP/RESULT/A1209374.RES

IEA Pesticide Standard Report

mple Name : 0060032 CMW-31 DF=100 Report No :124.10
Result File : /DATA/LOOP/RESULT/B5041168.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP58905B
Calculation : ExternalSTD
Run Time : 46.50 Mins. Injected on 0345 27Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/B5041.SEQ
Subseq/Sample : 2/ 69 Bottle no. : 69

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.44		.058254	3977	BV	0.0000	
2	6.54		.067638	18635	VB	0.0000	
3	7.83	7.87	.087982	24922	BB	.5673	~~Tetrachloro-m-xylene~~
4	8.84		.077067	4805	BB	0.0000	
5	10.08		.096423	8629	BB	0.0000	
6	15.36		.182541	17652	BB	0.0000	
7	19.25		.247407	41567	BB	0.0000	
8	20.16		.220475	80091	BB	0.0000	
9	21.40		.185751	11048	BB	0.0000	
10	21.95		.186197	65913	BV	0.0000	
11	22.18		.146497	12700	VV	0.0000	
12	22.66		.270164	41309	VB	0.0000	
13	23.69	23.67	.166366	16637	BB	.4603	~~gamma-Chlordane~~
14	24.11	24.12	.228171	33443	BV	.8660	~~alpha-Chlordane~~
15	24.98		.319797	89372	VV	0.0000	
16	25.55		.173308	137794	VV	0.0000	
17	26.02		.263873	56000	VB	0.0000	
18	26.61		.158699	191730	BV	0.0000	
19	27.31	27.29	.281121	110459	VV	4.2051	~~Endrin~~
20	27.75		.191968	45852	VV	0.0000	
21	28.18		.152817	217392	VV	0.0000	
22	28.89		.226958	114146	VV	0.0000	
23	29.25		.184790	103598	VB	0.0000	
24	30.35	30.37	.260692	480586	BV	18.9394	~~4,4'-DDD~~
25	30.51		.128916	135682	VV	0.0000	
26	30.77		.164870	103636	VV	0.0000	
27	31.20		.374118	95939	VV	0.0000	
28	31.60		.184643	50977	VV	0.0000	
29	32.23		.207258	266470	VV	0.0000	
30	32.52		.129269	91457	VV	0.0000	
31	32.62		.247502	183701	VV	0.0000	
32	33.42	Hx1260	.205094	98149	VV	0.0000	
33	33.62		.116464	39848	VV	0.0000	
34	33.81		.170474	364507	VB	0.0000	
35	34.58		.095745	2967	BV	0.0000	
36	35.30		.192652	85528	VV	0.0000	
37	35.56		.160510	225778	VB	0.0000	
38	36.69		.215109	22947	VV	0.0000	
39	36.90		.180041	8611	VV	0.0000	

QR 3/11

IEA Pesticide Standard Report

#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
.0	37.27		.122542	23001	VV	0.0000	
41	37.86		.204848	94223	BB	0.0000	
42	38.48		.111985	53027	BV	0.0000	
43	38.82		.253462	18103	VV	0.0000	
44	39.51		.152792	15004	VV	0.0000	
45	39.73		.270391	34547	VV	0.0000	
46	40.46	#40.48	.226045	18140	VV	.4663	Decachlorobiphenyl
47	40.86		.318473	41383	VV	0.0000	
48	41.84		.273603	39197	VV	0.0000	
49	42.49		.300866	27031	VB	0.0000	
50	45.57		.305332	20677	VV	0.0000	

Total Area : 4088789 Total PPB : 25.504

Report Time : 2306 02Mar1993
Method : /DATA/LOOP/METHOD/B5041_168.MT
Result File : /DATA/LOOP/RESULT/B5041168.RES

QUANT REPORT

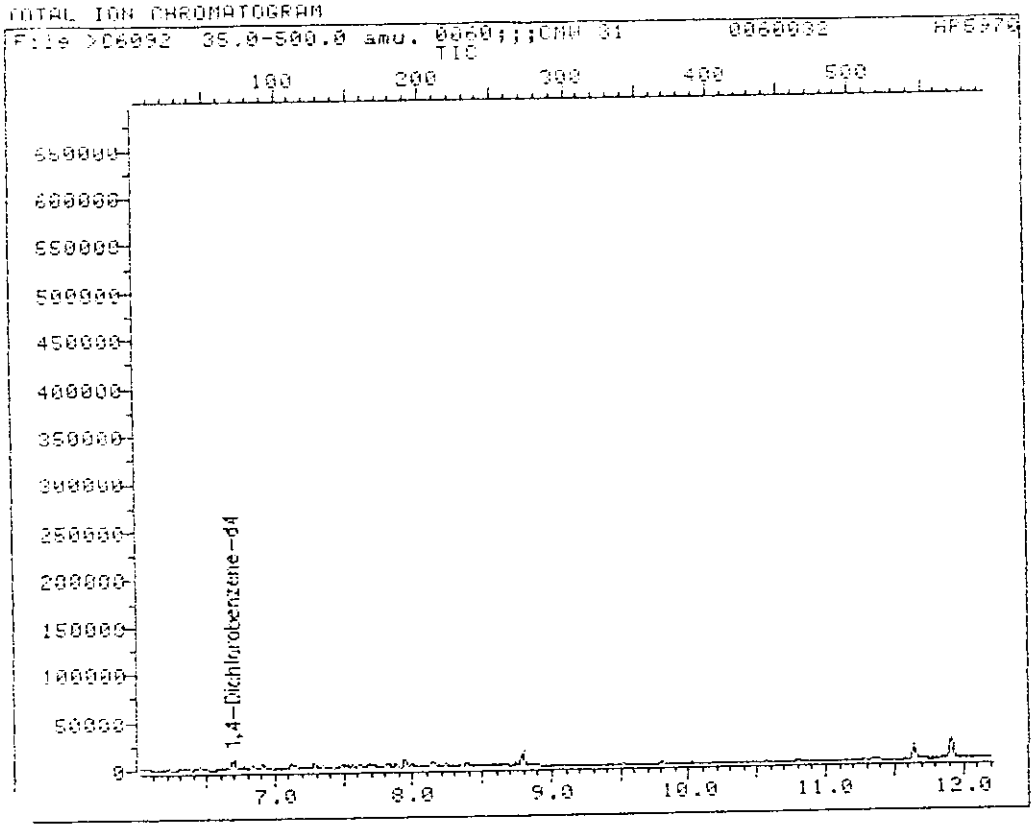
Operator ID: MSC Quant Rev: 6 Quant Time: 930311 15:05
Output File: ^C6092::QT Injected at: 930311 14:33
Data File: >C6092::C1 Dilution Factor: 1.00000
Name: 0060;;;CMW 31
Misc: 0060032 HP5970C;;;;1;;;C0968 BTL# 3

ID File: 1_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	6.68	150.0	3038	40.00	UG	98
2)	*Naphthalene-d8	14.63	135.9	102	40.00	UG	23
3)	*Acenaphthene-d10	19.87	163.9	247	40.00	UG	62
4)	*Phenanthrene-d10	23.70	187.9	336	40.00	UG	100
23)	*Chrysene-d12	19.59	240.0	79091	40.00	UG	97
✓24)	Arochlor 1260 (1)	17.86	360.0	1330	19.56	UG	94
✓25)	Arochlor 1260 (2)	18.62	360.0	1518	23.10	UG	91
✓26)	Arochlor 1260 (3)	19.84	324.0	576	11.56	UG	48

* Compound is ISTD

TOTAL ION CHROMATOGRAM

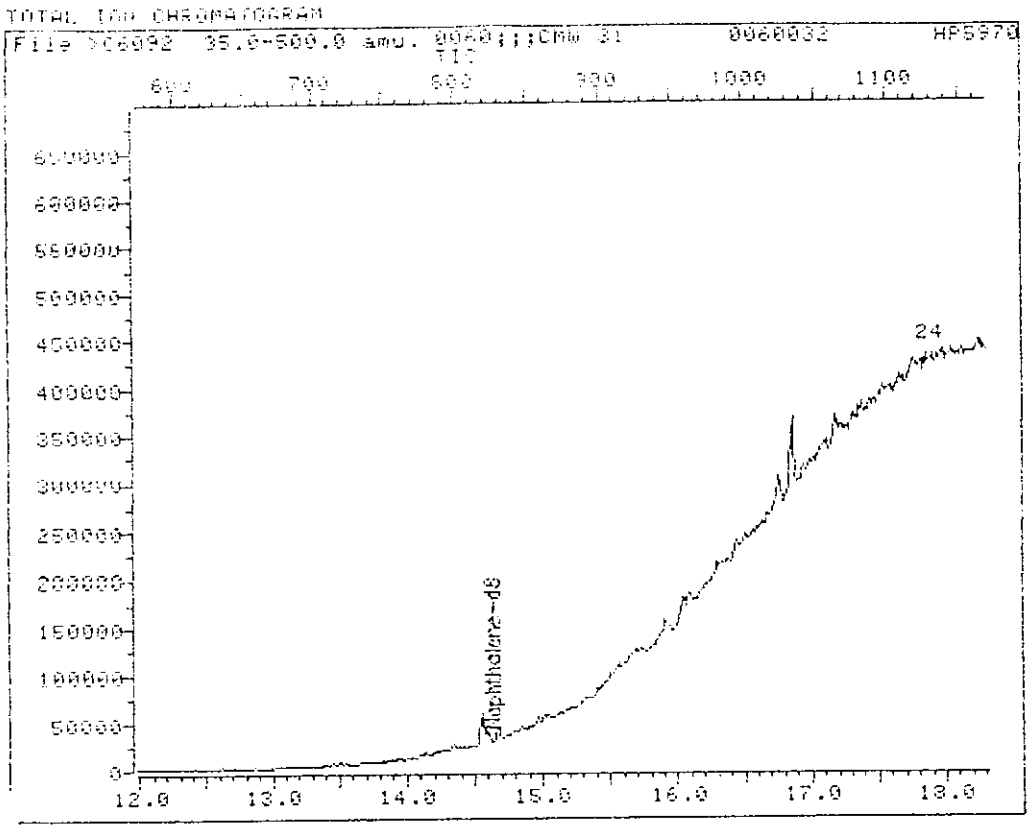


Data File: >C6092::C1 Quant Output File: ^C6092::QT
Name: 0060;;;CMW 31
Misc: 0060032 HP5970C;;;;1;;;C0968 BTL# 3

Id File: I_PC8C::N1
Title: PC8 ID file - instrument MSC
Last Calibration: 930310 11:54

Operator ID: MSC
Quant Time: 930311 15:05
Injected at: 930311 14:33

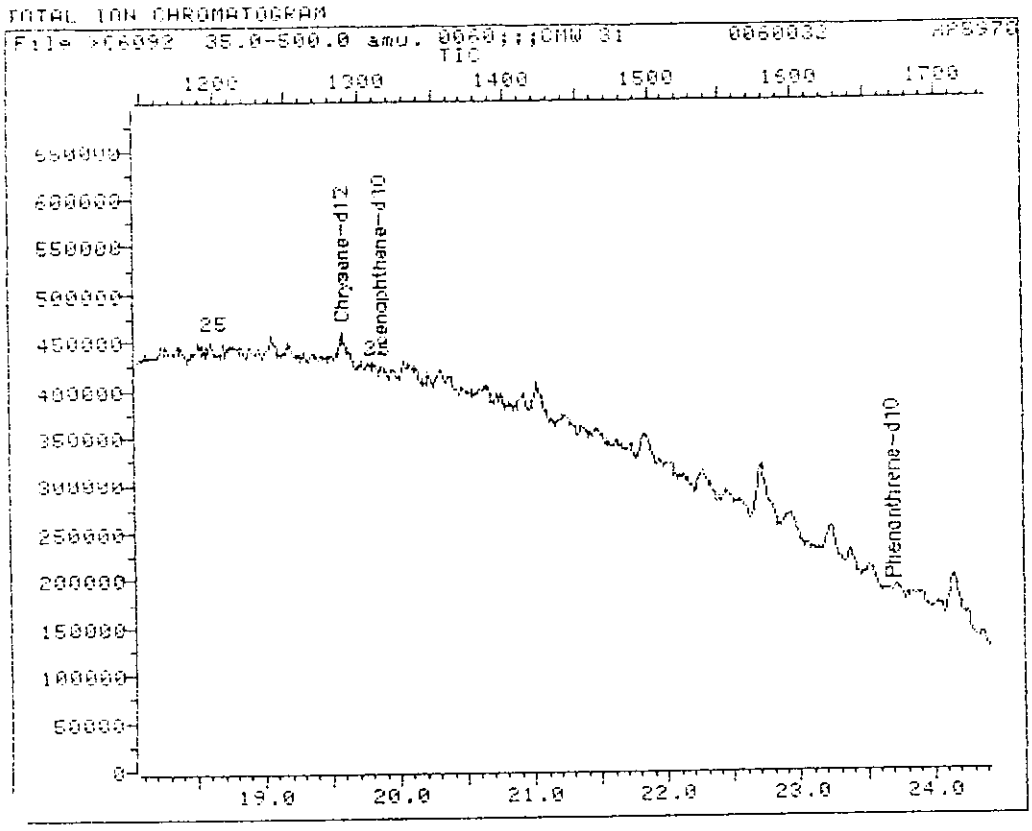
TIC page 1 of 4



Data File: >C6092::C1 Quant Output File: ^C6092::QT
Name: 0060;;;CMW 31
Misc: 0060032 HP5970C;;;;1;;;C0968 BTL# 3

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

Operator ID: MSC
Quant Time: 930311 15:05
Injected at: 930311 14:33

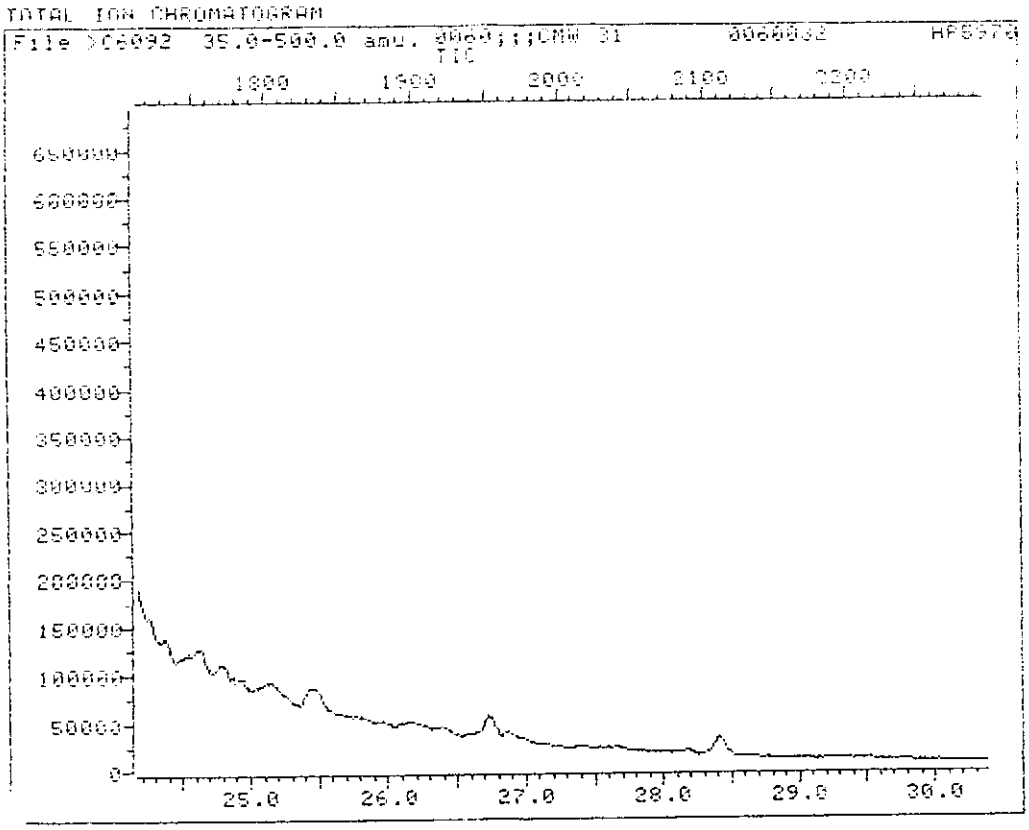


Data File: >C6092::C1 Quant Output File: ^C6092::QT
Name: 0060;;;CMW 31
Misc: 0060032 HP5970C;;;;1;;;C0968 BTL# 3

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

Operator ID: MSC
Quant Time: 930311 15:05
Injected at: 930311 14:33

TIC page 3 of 4



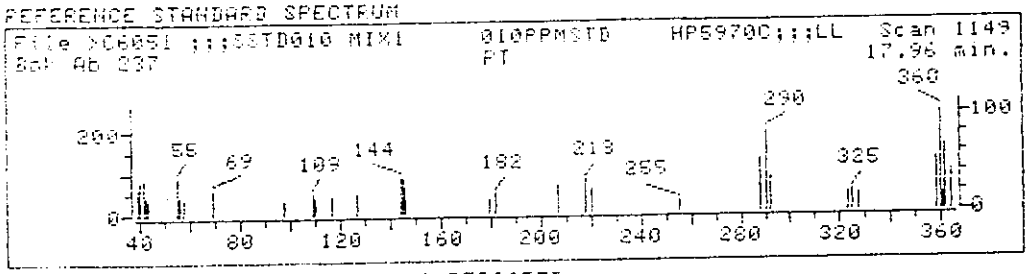
Data File: >C6092::C1 Quant Output File: ^C6092::QT
Name: 0060;;;CMW 31
Misc: 0060032 HP5970C;;;;1;;;C0968 BTL# 3

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

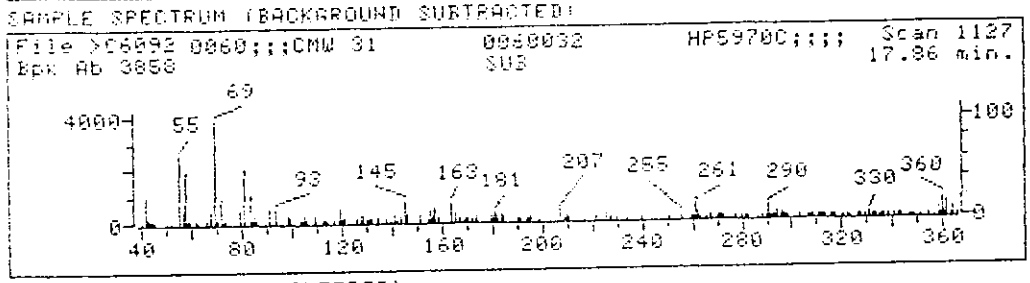
Operator ID: MSC
Quant Time: 930311 15:05
Injected at: 930311 14:33

TIC page 4 of 4

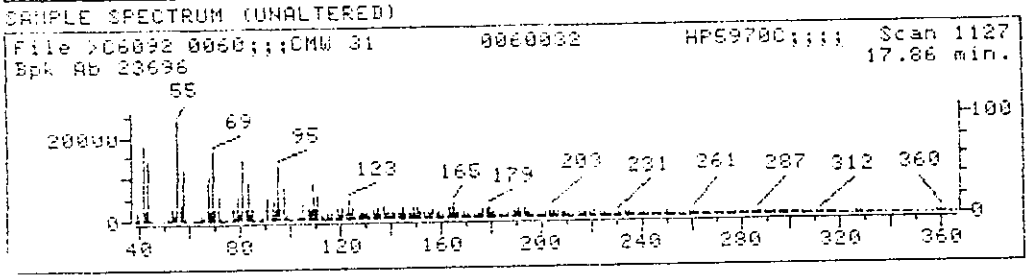
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



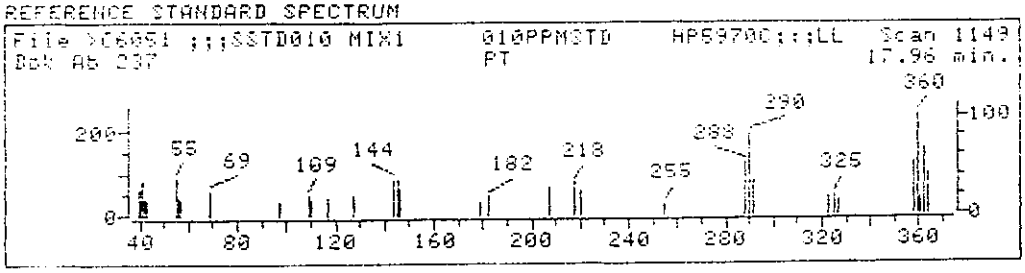
SAMPLE SPECTRUM (UNALTERED)



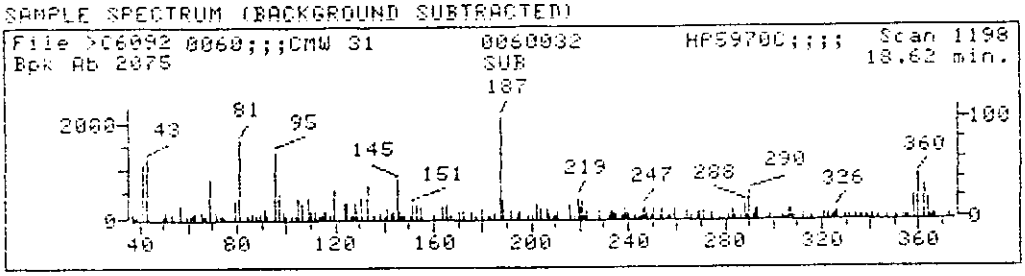
Data File: >C6092::C1 Quant Output File: ^C6092::QT
Name: 0060;;;CMW 31
Misc: 0060032 HP5970C;;;;1;;;C0968 BTL# 3
Quant Time: 930311 15:09 Quant ID File: I_PCBC::N1
Injected at: 930311 14:33 Last Calibration: 930310 11:54

Compound No: 24
Compound Name: Arochlor 1260 (1)
Scan Number: 1127
Retention Time: 17.86 min.
Quant Ion: 360.0
Area: 1330
Concentration: 19.56 UG
q-value: 94

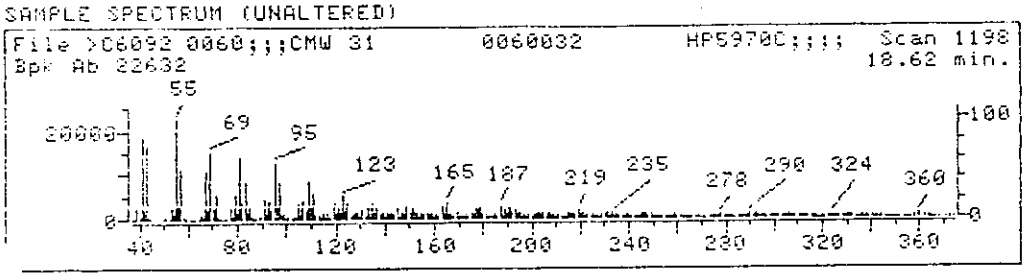
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



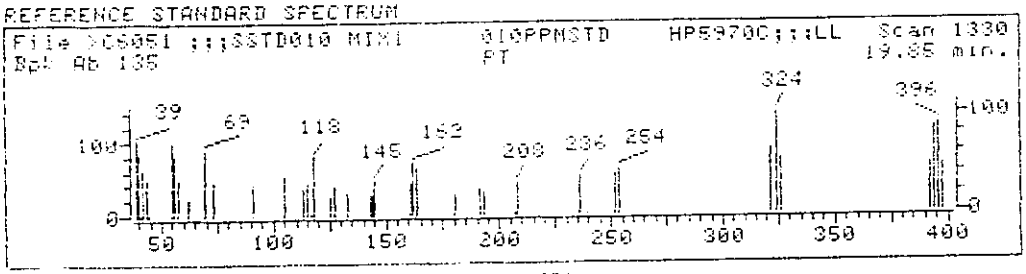
SAMPLE SPECTRUM (UNALTERED)



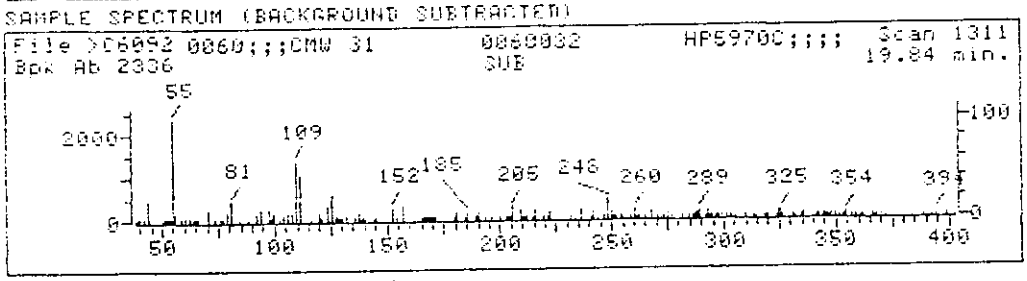
Data File: >C6092::C1 Quant Output File: ^C6092::QT
Name: 0060;;;CMW 31
Misc: 0060032 HP5970C;;;;1;;;C0968 BTL# 3
Quant Time: 930311 15:05 Quant ID File: I_PCBC::N1
Injected at: 930311 14:33 Last Calibration: 930310 11:54

Compound No: 25
Compound Name: Arochlor 1260 (2)
Scan Number: 1198
Retention Time: 18.62 min.
Quant Ion: 360.0
Area: 1518
Concentration: 23.10 UG
q-value: 91

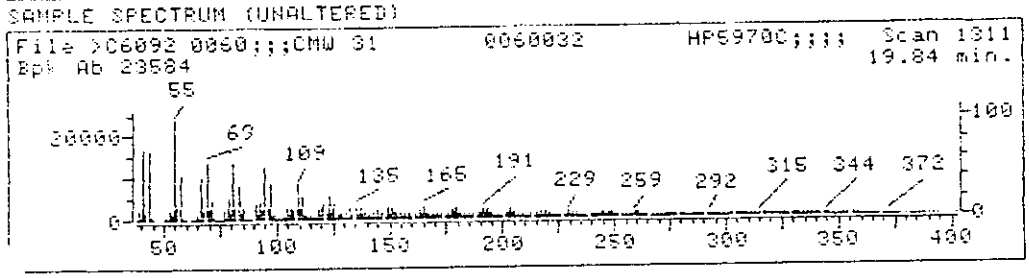
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C6092::C1 Quant Output File: ^C6092::QT
Name: 0060;;;CMW 31
Misc: 0060032 HP5970C;;;;1;;;C0968 BTL# 3
Quant Time: 930311 15:05 Quant ID File: I_PCBC::N1
Injected at: 930311 14:33 Last Calibration: 930310 11:54

Compound No: 26
Compound Name: Arochlor 1260 (3)
Scan Number: 1311
Retention Time: 19.84 min.
Quant Ion: 324.0
Area: 576
Concentration: 11.56 UG
q-value: 48

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS49 049

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060033

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209407.D

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/20/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

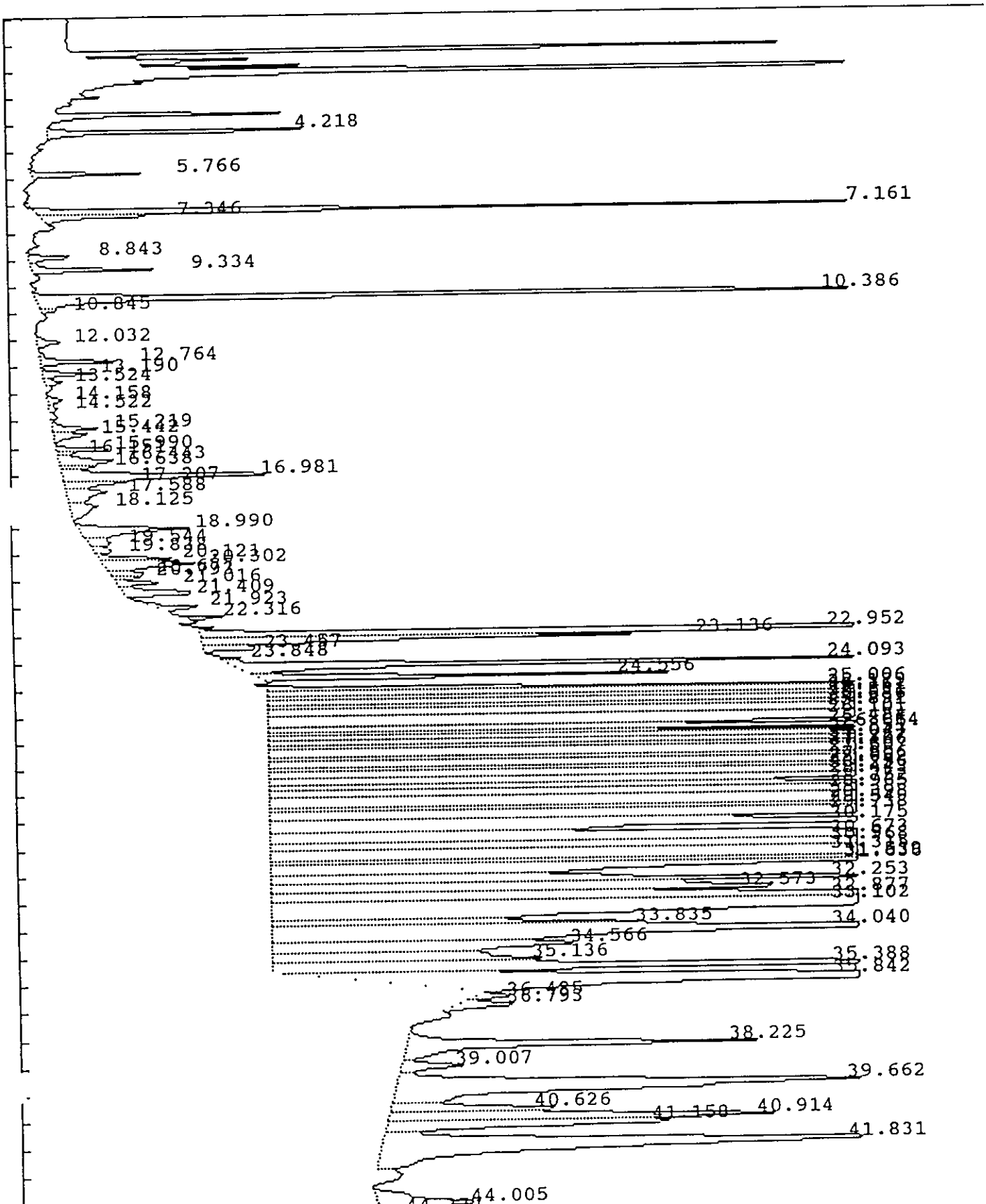
GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	760	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	14000	C P

IEA Pesticide Standard Report

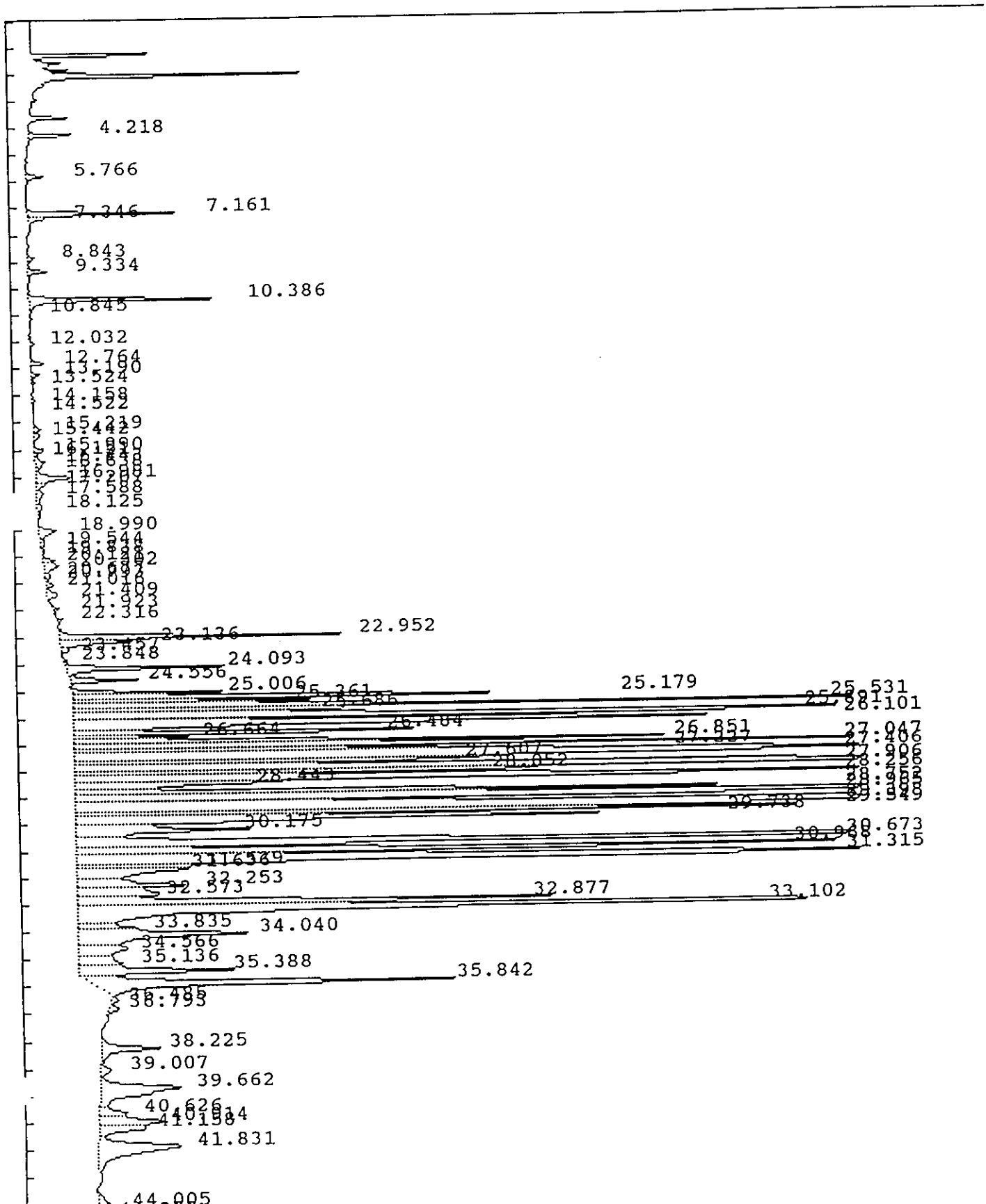
050

Sample Name : 0060033 CS-49 DF=10 Inj on 0437 20Feb1993
Result File :/DATA/LOOP/RESULT/A1209407.RES INSTRUMENT: HP58901A
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060033 CS-49 DF=10 Inj on 0437 20Feb1993
Result File :/DATA/LOOP/RESULT/A1209407.RES INSTRUMENT: HP58901A
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060033 CS-49 DF=10 Report No :516.20
Result File : /DATA/LOOP/RESULT/A1209407.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP58901A
Calculation : ExternalSTD
Run Time : 46.25 Mins. Injected on 0437 20Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/A1209.SEQ
Subseq/Sample : 5/ 11 Bottle no. : 11

% Dil-Fact
3333.00

Run Status : EndOffBaseline
SignalOverload

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.22		.084903	381330	BV	0.0000	
2	5.77		.118971	161462	PV	0.0000	
3	7.16		.099049	1193502	BV	0.0000	
4	7.35		.128550	173692	VV	0.0000	
5	8.84		.157086	88660	BV	0.0000	
6	9.33		.120821	192808	VV	0.0000	
7	10.39		.117480	1843470	PV	0.0000	
8	10.85		.126932	24429	VV	0.0000	
9	12.03		.195680	61894	BV	0.0000	
10	12.76	12.77	.124226	128627	VV	1.3549	Tetrachloro-m-xyler
11	13.19		.144125	94186	VV	0.0000	
12	13.52		.145282	34247	VV	0.0000	
13	14.16		.191256	36056	PV	0.0000	
14	14.52		.184701	20437	VV	0.0000	
15	15.22		.159407	89155	VV	0.0000	
16	15.44		.197546	83690	VV	0.0000	
17	15.99		.127423	99285	PV	0.0000	
18	16.15		.105669	20300	VV	0.0000	
19	16.44		.220482	158534	VV	0.0000	
20	16.64		.119228	49664	VV	0.0000	
21	16.98		.194921	528930	VV	0.0000	
22	17.21		.181158	137333	VV	0.0000	
23	17.59		.315650	160851	VV	0.0000	
24	18.13		.381135	130530	VV	0.0000	
25	18.99		.248111	328615	PV	0.0000	
26	19.54		.253721	73609	VV	0.0000	
27	19.84	19.88	.211631	47005	VV	.8519	~~beta-BHC~~
28	20.12		.158712	134290	VV	0.0000	
29	20.30		.227666	253036	VV	0.0000	
30	20.68		.142190	61894	VV	0.0000	
31	20.79		.117587	41946	VV	0.0000	
32	21.02		.127035	76448	VV	0.0000	
33	21.41		.241787	192400	VV	0.0000	ars/1c
34	21.92		.165587	103535	PV	0.0000	
35	22.32		.082022	49281	VV	0.0000	
36	22.95	22.99	.102910	2325371	VV	23.5603	~~Aldrin~~
37	23.14		.133796	809853	VV	0.0000	
38	23.46		.109109	86921	VV	0.0000	
39	23.85		.141947	43529	PV	0.0000	

IEA Pesticide Standard Report

053

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
40	24.09		.106811	1411850	VV	0.0000	
41	24.56		.101535	593971	VB	0.0000	
42	25.01	25.07	.096273	1128689	BV	12.3730	~~Heptachlor epoxide~~
43	25.18		.101011	4089396	VV	0.0000	
44	25.36		.095070	2045181	VV	0.0000	
45	25.53		.107497	6090501	GS	0.0000	
46	25.69	25.72	.083209	1941963	HS	19.9581	~~gamma-Chlordane~~
47	25.89		.156387	8861508	GS	0.0000	
48	26.10		.150116	8505028	GS	0.0000	
49	26.48		.095495	3204443	HS	0.0000	
50	26.66		.081697	766432	HS	0.0000	
51	26.85		.106456	5125889	HS	0.0000	
52	27.05		.129612	7344075	GS	0.0000	
53	27.23		.078160	3402666	GS	0.0000	
54	27.41		.220978	12523466	GS	0.0000	
55	27.61		.135564	4151064	HS	0.0000	
56	27.91		.239430	13569528	GS	0.0000	
57	28.05		.093328	3216176	GS	0.0000	
58	28.26		.172858	9795760	GS	0.0000	
59	28.44	28.45	.154739	2068034	HS	32.4519	~~4,4'-DDD~~
60	28.75		.093648	5305814	GS	0.0000	
61	28.96		.232923	13200410	GS	0.0000	
62	29.40		.291294	16509424	GS	0.0000	
63	29.55	29.50	.115073	6520865	GS	110.3127	~~Endrin aldehyde~~
64	29.74		.141748	6880843	HS	0.0000	
65	30.18		.200735	2816059	HS	0.0000	
66	30.67	AM1160	.194851	11042104	GS	0.0000	
67	30.97		.138750	7861881	GS	0.0000	092/14
68	31.31		.239890	13595332	GS	0.0000	
69	31.54		.087592	719420	HS	0.0000	
70	31.64		.290986	2375067	HS	0.0000	
71	32.25		.215763	1836567	HS	0.0000	
72	32.57		.272001	1698046	HS	0.0000	
73	32.88		.141320	5109449	HS	0.0000	
74	33.10		.220311	12484086	GS	0.0000	
75	33.84		.164787	734076	HS	0.0000	
76	34.04		.269483	3430953	HS	0.0000	
77	34.57		.325562	1162658	HS	0.0000	
78	35.14		.315513	996962	HS	0.0000	
79	35.39		.193581	2226070	HS	0.0000	
80	35.84		.206120	5543362	HS	0.0000	
81	36.49		.145524	55327	BV	0.0000	
82	36.79		.214907	140054	VV	0.0000	
83	38.23		.232648	982282	PV	0.0000	
84	39.01		.250426	183572	VV	0.0000	
85	39.66		.410548	2367438	VV	0.0000	
86	40.63	#40.67	.229722	451311	VV	3.7801	Decachlorobiphenyl
87	40.91		.258056	1186652	VV	0.0000	
88	41.16		.231365	785160	VV	0.0000	
89	41.83		.432389	2550386	VV	0.0000	
90	44.01		.392352	445245	PV	0.0000	
91	44.38		.204146	62722	VV	0.0000	
92	44.83		.231409	53539	VV	0.0000	
93	45.20		.410858	377556	VV	0.0000	

Total Area : 242047168 Total PPB : 204.643

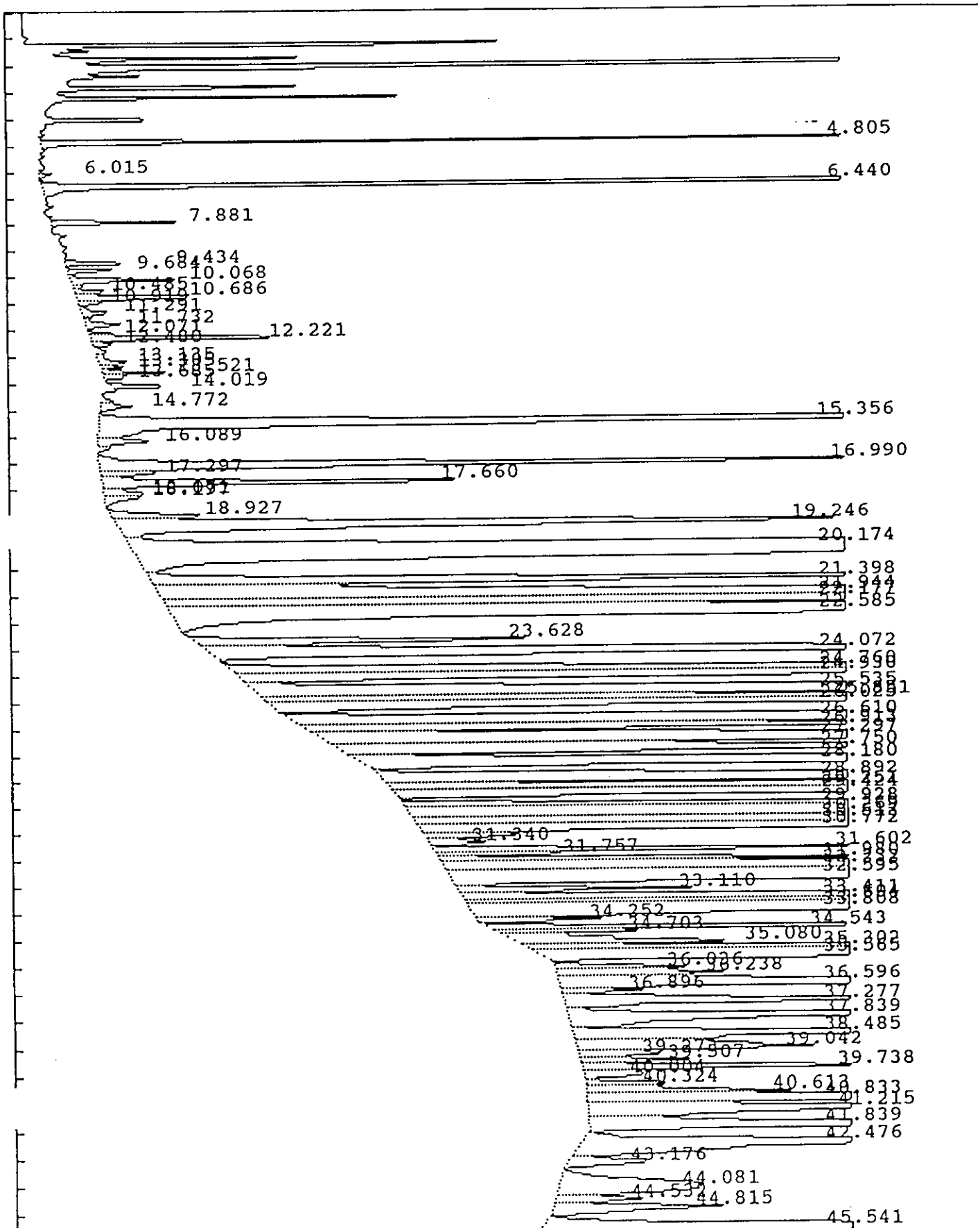
IEA Pesticide Standard Report

Report Time : 1431 23Feb1993
Method : /DATA/LOOP/METHOD/A1209_407.MT
Result File : /DATA/LOOP/RESULT/A1209407.RES

IEA Pesticide Standard Report

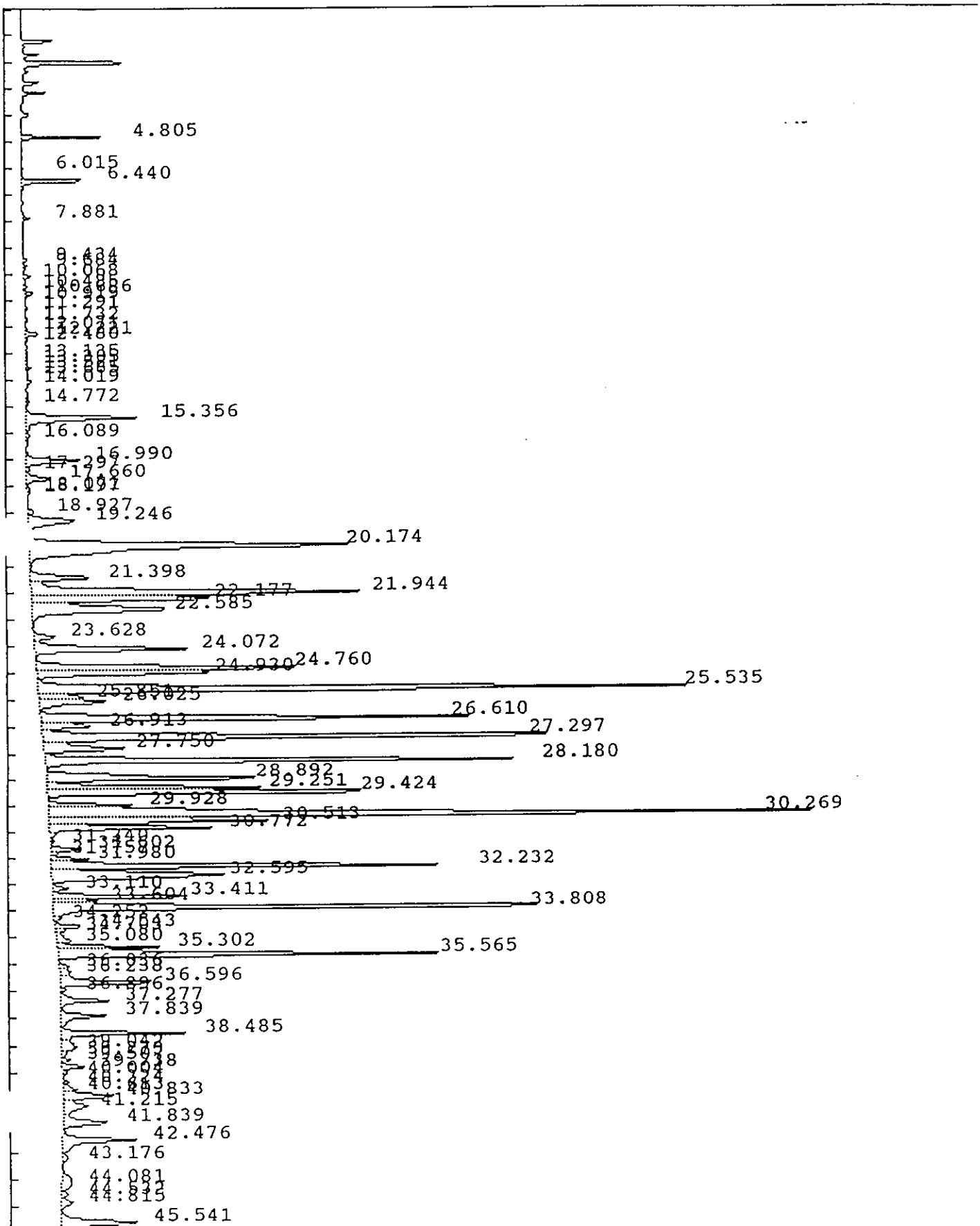
mple Name : 0060033 CS-49 DF=10
sult File :/DATA/LOOP/RESULT/B5041171.RES
Column Type : DB-1701 30-Meter,0.53mm ID

Inj on 0627 27Feb1993
INSTRUMENT: HP58905B
Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060033 CS-49 DF=10 Inj on 0627 27Feb1993
Result File :/DATA/LOOP/RESULT/B5041171.RES INSTRUMENT: HP58905B
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

mple Name : 0060033 CS-49 DF=10 Report No :127.10
Result File : /DATA/LOOP/RESULT/B5041171.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP58905B
Calculation : ExternalSTD
Run Time : 46.50 Mins. Injected on 0627 27Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/B5041.SEQ
Subseq/Sample : 2/ 72 Bottle no. : 72

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.81		.058287	378284	BV	0.0000	
2	6.02		.110608	7142	BB	0.0000	
3	6.44		.071217	502547	BB	0.0000	
4	7.88	7.87	.101537	57033	BB	1.2982	Tetrachloro-m-xylene
5	9.43		.090132	31221	BV	0.0000	
6	9.68		.090673	22874	PV	0.0000	
7	10.07		.122976	56017	VV	0.0000	
8	10.49		.117243	15957	VV	0.0000	
9	10.69		.138500	79879	VV	0.0000	
10	10.92		.104695	9414	VV	0.0000	
11	11.29		.158954	20081	VV	0.0000	
12	11.73		.167676	23855	VV	0.0000	
13	12.07		.089209	8417	VV	0.0000	
14	12.22		.108591	106836	VV	0.0000	
15	12.48		.108295	10427	VV	0.0000	
16	13.13		.163441	19912	VV	0.0000	
17	13.31		.101791	10450	VV	0.0000	
18	13.52		.103299	27275	VV	0.0000	
19	13.68		.105994	10920	VV	0.0000	
20	14.02		.117460	29329	PV	0.0000	
21	14.77		.148042	19767	VV	0.0000	
22	15.36		.179009	1275809	PV	0.0000	
23	16.09		.193187	40429	VV	0.0000	
24	16.99		.165700	556588	PV	0.0000	
25	17.30		.164263	35950	VV	0.0000	
26	17.66		.164557	252459	VV	0.0000	
27	18.07		.175371	28398	VV	0.0000	
28	18.20		.205297	29520	VV	0.0000	
29	18.93		.181906	67568	PV	0.0000	
30	19.25		.268319	758533	VV	0.0000	
31	20.17		.276355	5276933	VV	0.0000	
32	21.40		.197960	719626	VV	0.0000	
33	21.94		.202711	3990295	VV	0.0000	
34	22.18		.182872	2008181	VV	0.0000	
35	22.58		.274875	2230425	VB	0.0000	
36	23.63	23.67	.176880	237636	BV	6.5743	~~gamma-Chlordane~~
37	24.07	24.12	.180758	1662412	VB	43.0479	alpha-Chlordane
38	24.76		.165336	2628766	BV	0.0000	

IEA Pesticide Standard Report

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
39	24.93		.161283	1663068	VV	0.0000	
40	25.53		.167822	6618298	VV	0.0000	
41	25.85		.139357	380150	VV	0.0000	
42	26.02		.187913	773294	VB	0.0000	
43	26.61		.162434	4213245	BV	0.0000	
44	26.91		.153974	476265	VV	0.0000	
45	27.30	27.29	.162140	5532407	VV	210.6125	~~Endrin~~
46	27.75		.185042	941316	VV	0.0000	
47	28.18		.151625	4503288	VB	0.0000	
48	28.89		.173526	2403897	BV	0.0000	
49	29.25		.133378	1731163	VV	0.0000	
50	29.42		.144898	3102660	VB	0.0000	
51	29.93		.134079	680007	BV	0.0000	
52	30.27		.177691	8318489	VV	0.0000	
53	30.51		.136624	1847199	VV	0.0000	
54	30.77		.135733	1416781	VV	0.0000	
55	31.34	31.30	.160200	36733	VB	1.7830	~~4,4'-DDT~~
56	31.60		.119333	238568	BV	0.0000	
57	31.76		.096303	53722	VV	0.0000	
58	31.98		.123773	289443	VV	0.0000	
59	32.23		.131158	3345103	VV	0.0000	
60	32.59	AK126	.251047	2597981	VV	0.0000	
61	33.11		.131968	129543	VV	0.0000	
62	33.41		.123025	1146181	VV	0.0000	
63	33.60		.109822	320114	VV	0.0000	
64	33.81		.135299	4687005	VV	0.0000	
65	34.25		.129026	66729	VB	0.0000	
66	34.54		.121200	225450	BV	0.0000	
67	34.70	34.76	.112752	66883	VV	4.9392	~~Methoxychlor~~
68	35.08		.188588	184806	VV	0.0000	
69	35.30		.116367	749563	VV	0.0000	
70	35.57		.143954	3396155	VB	0.0000	ad3/11
71	36.04		.168973	90415	BV	0.0000	
72	36.24		.162149	110309	VV	0.0000	
73	36.60		.157813	1006247	VV	0.0000	
74	36.90		.135875	47502	VV	0.0000	
75	37.28		.146276	488714	VV	0.0000	
76	37.84		.182883	521884	VV	0.0000	
77	38.48		.124367	984610	VV	0.0000	
78	39.04		.280275	273085	VV	0.0000	
79	39.27		.158052	54046	VV	0.0000	
80	39.51		.131289	62004	VV	0.0000	
81	39.74		.131657	193079	VV	0.0000	
82	40.00		.214870	51080	VB	0.0000	
83	40.32		.132073	45452	BV	0.0000	
84	40.61		.169027	141257	VV	0.0000	
85	40.83		.195424	610467	VV	0.0000	
86	41.21		.289846	415428	VV	0.0000	
87	41.84		.215187	591542	VB	0.0000	
88	42.48		.209141	924110	BV	0.0000	
89	43.18		.227469	74221	VB	0.0000	
90	44.08		.534293	301334	BV	0.0000	
91	44.53		.177398	62221	VV	0.0000	
92	44.82		.227067	156886	VB	0.0000	
93	45.54		.225556	1026290	BB	0.0000	

IEA Pesticide Standard Report

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
4	46.27		.143072	16749	BV	0.0000	

Total Area : 93631616 Total PPB : 268.255

Report Time : 2315 02Mar1993
Method : /DATA/LOOP/METHOD/B5041_171.MT
Result File : /DATA/LOOP/RESULT/B5041171.RES

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS49DL 060

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060033DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209377.D

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/18/93

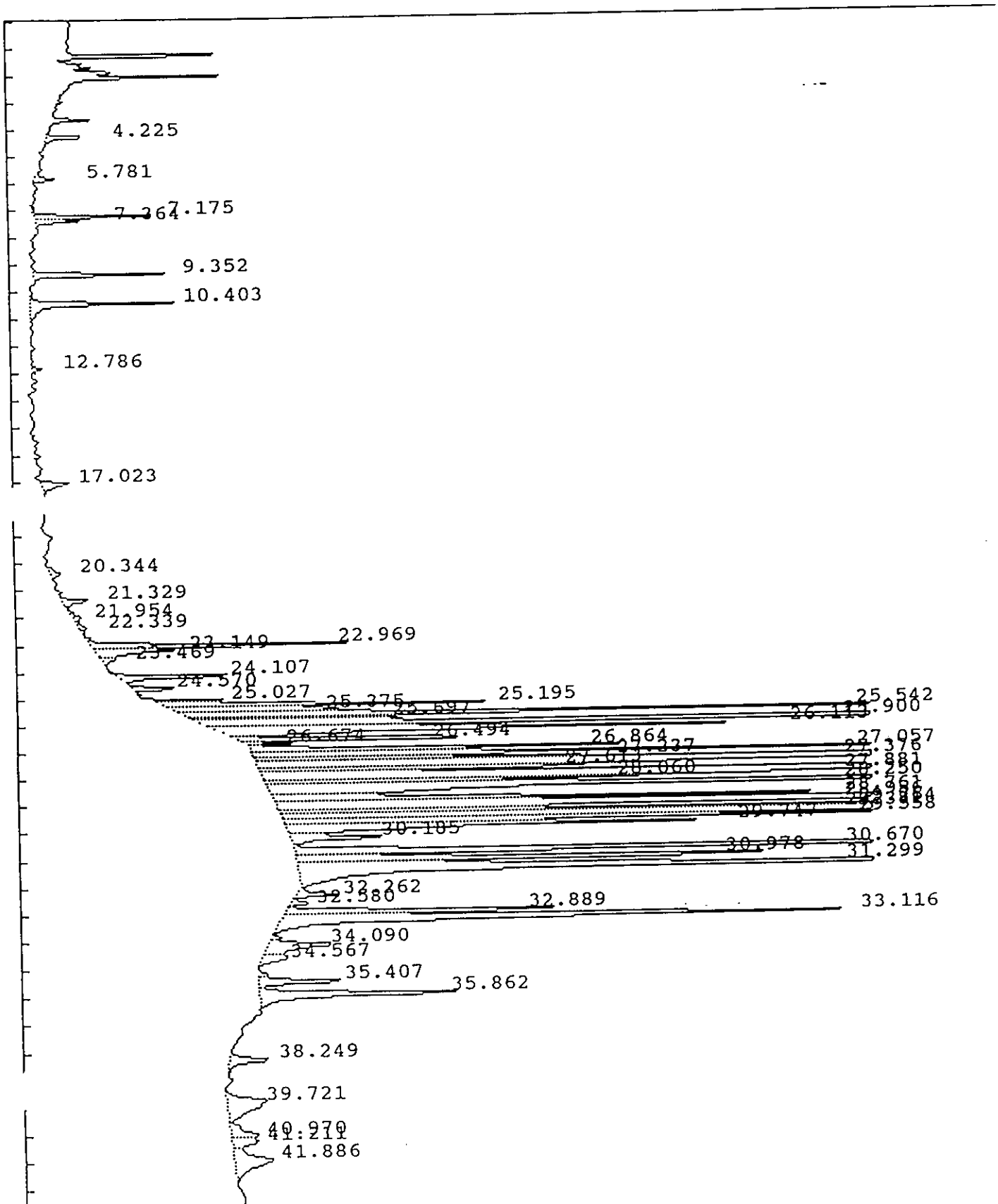
Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3800	U
11104-28-2	Aroclor-1221	7600	U
11141-16-5	Aroclor-1232	3800	U
53469-21-9	Aroclor-1242	3800	U
12672-29-6	Aroclor-1248	3800	U
11097-69-1	Aroclor-1254	3800	U
11096-82-5	Aroclor-1260	17000	C BPD

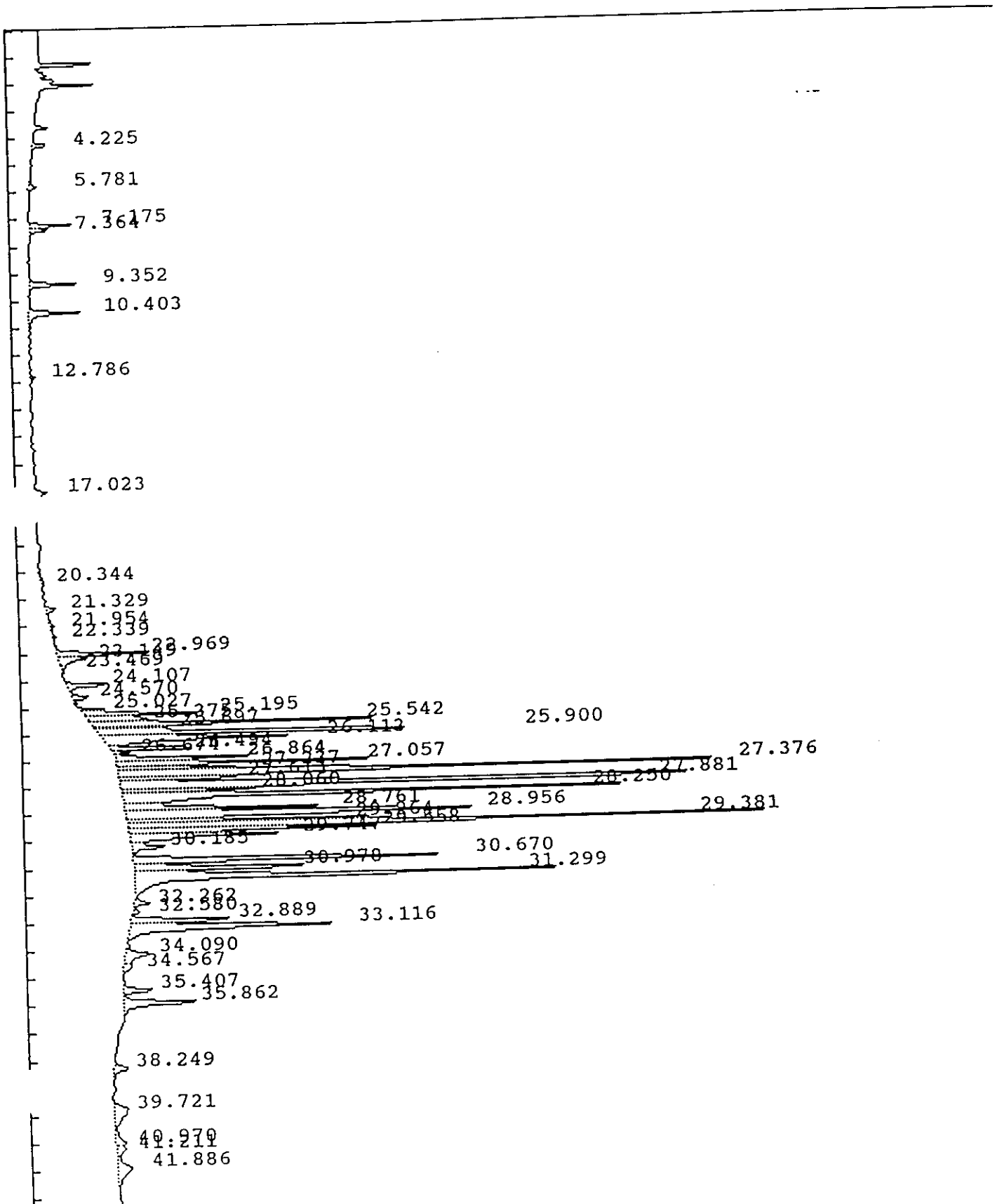
IEA Pesticide Standard Report

ample Name : 0060033 CS-49 DF=100 Inj on 1929 18Feb1993
esult File :/DATA/LOOP/RESULT/A1209377.RES INSTRUMENT: HP58901A
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

ımple Name : 0060033 CS-49 DF=100 Inj on 1929 18Feb1993
.esult File :/DATA/LOOP/RESULT/A1209377.RES INSTRUMENT: HP58901A
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Report No :485.10

ample Name : 0060033 CS-49 DF=100
Result File : /DATA/LOOP/RESULT/A1209377.RES
Column Type : RTX-35 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP58901A
Calculation : ExternalSTD
Run Time : 46.25 Mins. Injected on 1929 18Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/A1209.SEQ
Subseq/Sample : 4/ 80 Bottle no. : 80

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.23		.090555	58199	BV	0.0000	
2	5.78		.139779	32858	BV	0.0000	
3	7.18		.103521	160100	BV	0.0000	
4	7.36		.117973	63090	VB	0.0000	
5	9.35		.115211	185167	BB	0.0000	
6	10.40		.137888	245850	BB	0.0000	
7	12.79	12.77	.113606	15721	BB	.1656	~~Tetrachloro-m-xylene~~
8	17.02		.201711	68879	BB	0.0000	
9	20.34		.272310	33320	PV	0.0000	
10	21.33		.154462	54958	VV	0.0000	
11	21.95		.233714	26291	VV	0.0000	
12	22.34		.174053	20545	VV	0.0000	
13	22.97	22.99	.113334	374491	PV	3.7943	~~Aldrin~~
14	23.15		.162294	160269	VV	0.0000	
15	23.47		.170590	33581	VB	0.0000	
16	24.11		.110230	190300	BB	0.0000	
17	24.57		.104669	69559	BB	0.0000	
18	25.03	25.07	.090368	90729	BV	.9946	~~Heptachlor epoxide~~
19	25.19		.112192	473606	VV	0.0000	
20	25.37		.101885	243815	VV	0.0000	
21	25.54		.094949	995166	VV	0.0000	
22	25.70	25.72	.086446	269481	VV	2.7695	~~gamma-Chlordane~~
23	25.90		.109496	1526916	VV	0.0000	
24	26.11		.137189	969011	VV	0.0000	
25	26.49		.085721	352980	VV	0.0000	
26	26.67		.075938	54207	VB	0.0000	
27	26.86	26.93	.098125	494329	BV	6.2074	~~4,4'-DDE~~
28	27.06		.096241	897446	VV	0.0000	
29	27.24		.082541	368424	VV	0.0000	
30	27.38		.126802	2691545	VV	0.0000	Ald 3/11
31	27.61		.116585	463886	VV	0.0000	
32	27.88		.153248	3170447	VV	0.0000	
33	28.06		.094773	448748	VV	0.0000	
34	28.25		.120813	2271273	VV	0.0000	
35	28.76		.110615	807479	VV	0.0000	
36	28.96		.167926	2056187	VV	0.0000	
37	29.26	29.32	.108561	1051561	VV	16.2881	~~4,4'-DDT~~
38	29.38		.098955	2388957	VV	0.0000	

An 1260

IEA Pesticide Standard Report

c#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
39	29.56	29.50	.103826	915511	VV	15.4876	~~Endrin aldehyde~~
40	29.75		.144054	808624	VV	0.0000	
41	30.19		.141878	184215	VB	0.0000	
42	30.67		.123321	1404698	BV	0.0000	
43	30.98		.133346	829106	VV	0.0000	
44	31.30		.150544	2294493	VB	0.0000	
45	32.26		.126727	65588	BB	0.0000	
46	32.58		.124223	26630	BB	0.0000	
47	32.89		.127968	450789	BV	0.0000	
48	33.12		.172329	1229087	VB	0.0000	
49	34.09		.275179	210362	VV	0.0000	
50	34.57		.214472	62386	VB	0.0000	
51	35.41		.157037	164370	VV	0.0000	
52	35.86		.190057	463993	VB	0.0000	
53	38.25		.225367	106899	BV	0.0000	
54	39.72		.550583	252396	PV	0.0000	
55	40.97		.315242	103588	VV	0.0000	
56	41.21		.277371	83222	VV	0.0000	
57	41.89		.517723	229825	VV	0.0000	

Aw 3/11

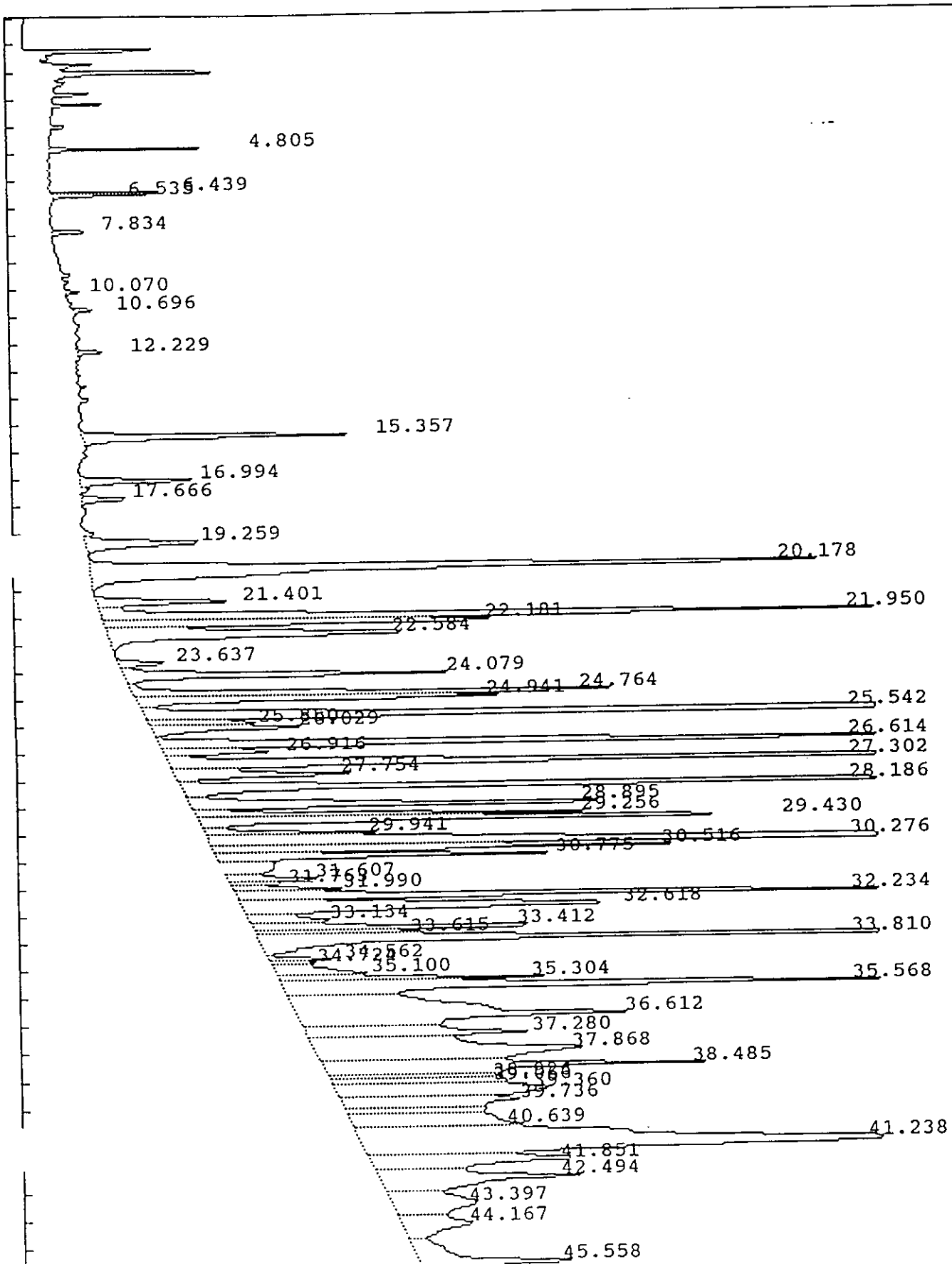
Total Area : 33765160 Total PPB : 45.707

Report Time : 1905 22Feb1993
Method : /DATA/LOOP/METHOD/A1209_377.MT
Result File : /DATA/LOOP/RESULT/A1209377.RES

IEA Pesticide Standard Report

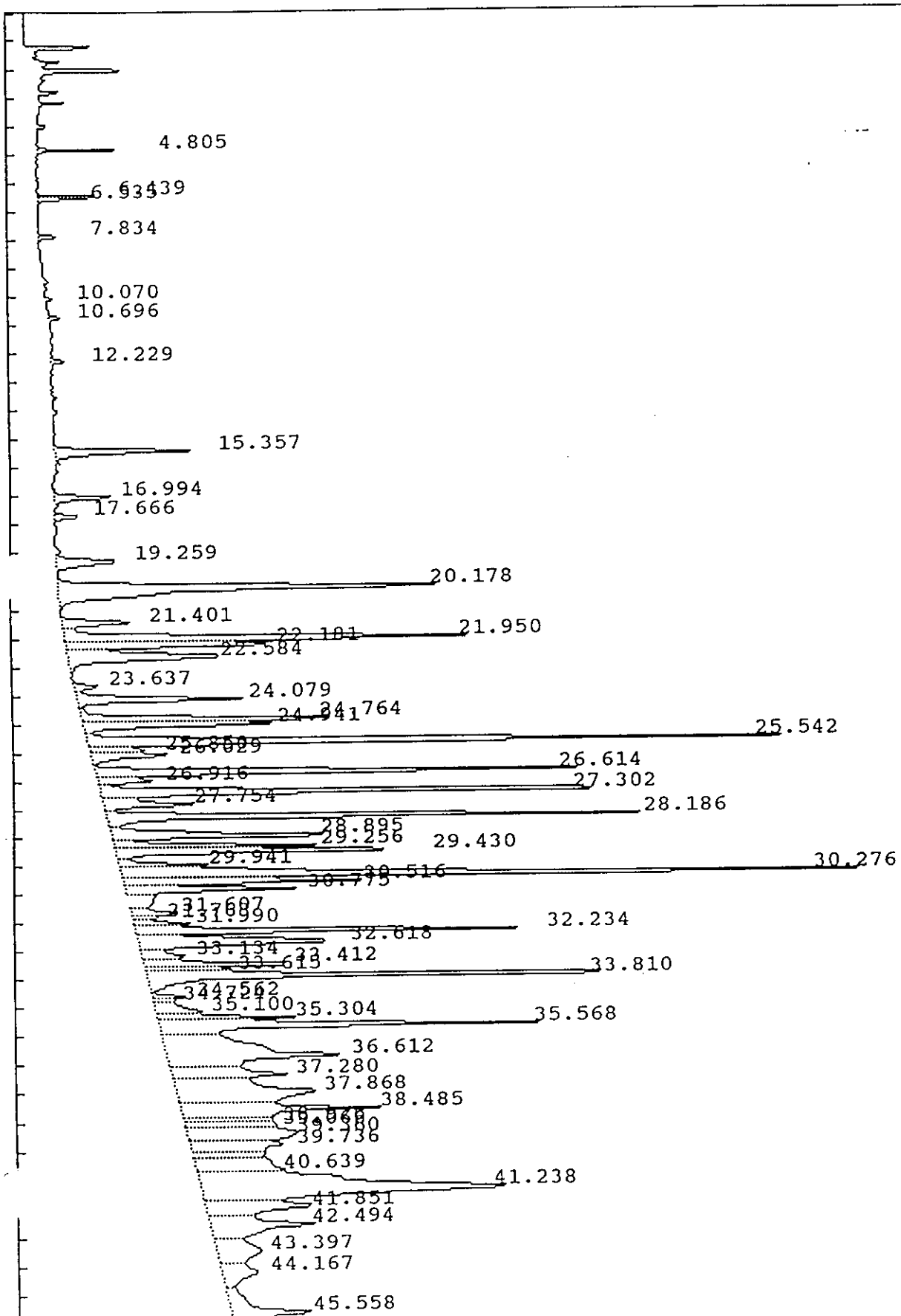
Sample Name : 0060033 CS-49 DF=100
Result File : /DATA/LOOP/RESULT/B5041170.RES
Column Type : DB-1701 30-Meter,0.53mm ID

Inj on 0533 27Feb1993
INSTRUMENT: HP58905B
Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060033 CS-49 DF=100 Inj on 0533 27Feb1993
Result File :/DATA/LOOP/RESULT/B5041170.RES INSTRUMENT: HP58905B
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

ımple Name : 0060033 CS-49 DF=100 Report No :126.00
ʌesult File : /DATA/LOOP/RESULT/B5041170.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP58905B
Calculation : ExternalSTD
Run Time : 46.50 Mins. Injected on 0533 27Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/B5041.SEQ
Subseq/Sample : 2/ 71 Bottle no. : 71

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.81		.053739	43984	BB	0.0000	
2	6.44		.059904	49390	BV	0.0000	
3	6.53		.068602	13357	VB	0.0000	
4	7.83	7.87	.098583	16197	BB	.3687	~~Tetrachloro-m-xylene~~
5	10.07		.103578	5971	BB	0.0000	
6	10.70		.114948	10578	BB	0.0000	
7	12.23		.108693	13162	BV	0.0000	
8	15.36		.165220	179531	BB	0.0000	
9	16.99		.159467	73441	BV	0.0000	
10	17.67		.152446	29744	VV	0.0000	
11	19.26		.250629	111186	VB	0.0000	
12	20.18		.269058	761294	BV	0.0000	
13	21.40		.191792	98520	PV	0.0000	
14	21.95		.196986	583188	VV	0.0000	
15	22.18		.178648	276855	VV	0.0000	
16	22.58		.287406	326795	VB	0.0000	
17	23.64	23.67	.175153	33394	BV	.9239	~~gamma-Chlordane~~
18	24.08	24.12	.184162	228541	VV	5.9180	~~alpha-Chlordane~~
19	24.76		.162785	314769	VV	0.0000	
20	24.94		.178776	247186	VV	0.0000	
21	25.54		.163287	846664	VV	0.0000	
22	25.85		.144899	59468	VV	0.0000	
23	26.03		.192873	115396	VV	0.0000	
24	26.61		.158095	580303	VV	0.0000	
25	26.92		.166378	70152	VV	0.0000	
26	27.30	27.29	.160748	684970	VV	26.0760	~~Endrin~~
27	27.75		.198154	139402	VV	0.0000	
28	28.19		.154805	635143	VV	0.0000	
29	28.90		.182716	334594	VV	0.0000	
30	29.26		.138345	212333	VV	0.0000	
31	29.43		.153473	350483	VV	0.0000	
32	29.94		.151918	100823	VV	0.0000	
33	30.28		.171262	988654	VV	0.0000	
34	30.52		.143149	260659	VV	0.0000	
35	30.78		.158097	212125	VV	0.0000	
36	31.61		.168691	61312	VV	0.0000	
37	31.76		.116451	23021	VV	0.0000	
38	31.99		.159441	65723	VV	0.0000	

IEA Pesticide Standard Report

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
39	32.23		.137064	424176	VV	0.0000	
40	32.62		.277183	413382	VV	0.0000	
41	33.13	AR 1260	.226581	70557	VV	0.0000	
42	33.41		.163353	205989	VV	0.0000	
43	33.61		.130114	88097	VV	0.0000	
44	33.81		.151133	621359	VV	0.0000	
45	34.56		.134524	34311	VV	0.0000	
46	34.72	34.76	.133658	22821	VV	1.6853	~~Methoxychlor~~
47	35.10		.258670	88125	VV	0.0000	
48	35.30		.145925	153070	VV	0.0000	
49	35.57		.191622	555401	VV	0.0000	
50	36.61		.579815	763501	VV	0.0000	
51	37.28		.283458	246386	VV	0.0000	
52	37.87		.632917	652219	VV	0.0000	
53	38.49		.271688	415631	VV	0.0000	
54	38.93		.182867	117544	VV	0.0000	
55	39.07		.154728	102408	VV	0.0000	
56	39.36		.451061	359525	VV	0.0000	
57	39.74		.311683	215956	VV	0.0000	
58	40.64		.438961	282522	VV	0.0000	
59	41.24		.560528	1243617	VV	0.0000	
60	41.85		.374005	295336	VV	0.0000	
61	42.49		.425464	333694	VV	0.0000	
62	43.40		.654423	214025	VV	0.0000	
63	44.17		.539397	144662	VV	0.0000	
64	45.56		.363869	216717	VV	0.0000	

Total Area : 17439344 Total PPB : 34.972

Report Time : 0622 27Feb1993
Method : /DATA/LOOP/METHOD/B5041.MTH
Result File : /DATA/LOOP/RESULT/B5041170.RES

QUANT REPORT

Operator ID: MSC
Output File: ^C6093::QT
Data File: >C6093::C1
Name: 0060;;;CS 49
Misc: 0060033 HP5970C;;;;1;;;C0968

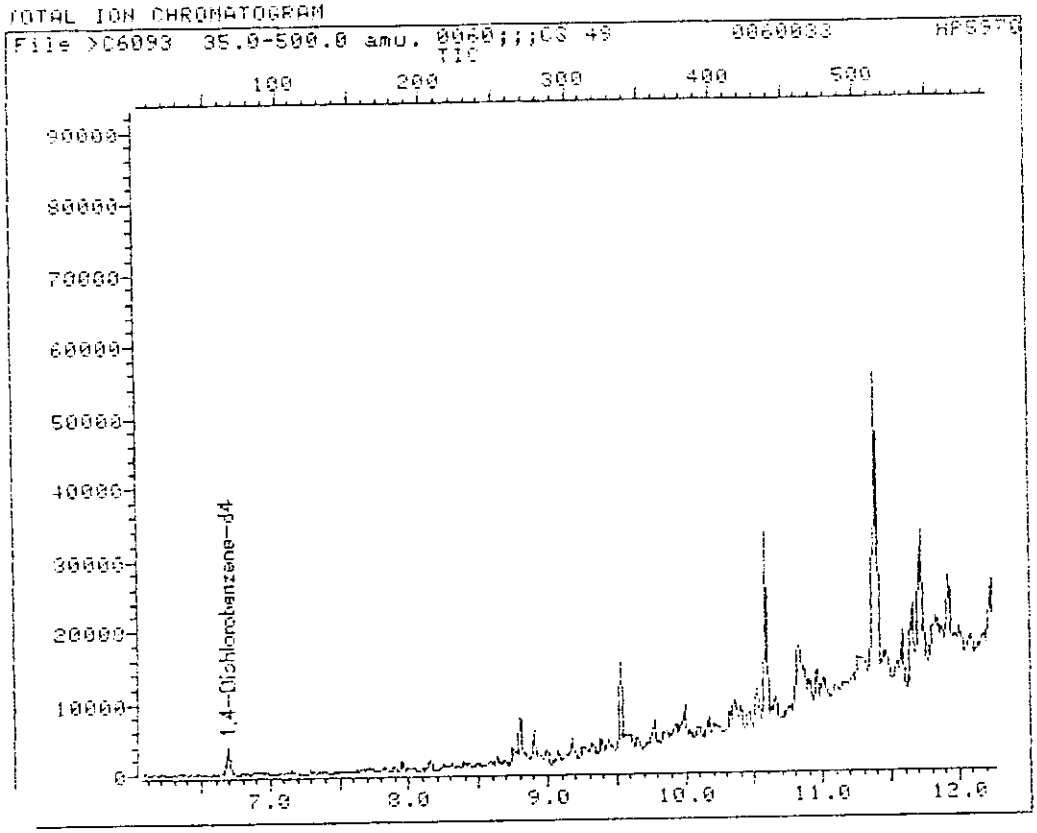
Quant Rev: 6 Quant Time: 930311 15:44
Injected at: 930311 15:12
Dilution Factor: 1.00000

BTL# 4

ID File: !_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	6.69	150.0	1809	40.00	UG	94
2)	*Naphthalene-d8	14.84	135.9	202^	40.00	UG	94
23)	*Chrysene-d12	19.54	240.0	16489	40.00	UG	88
✓24)	Arochlor 1260 (1)	17.84	360.0	385	27.16	UG	96
✓25)	Arochlor 1260 (2)	18.60	360.0	968	70.66	UG	91
✓26)	Arochlor 1260 (3)	19.69	324.0	289	27.83	UG	87

* Compound is ISTD

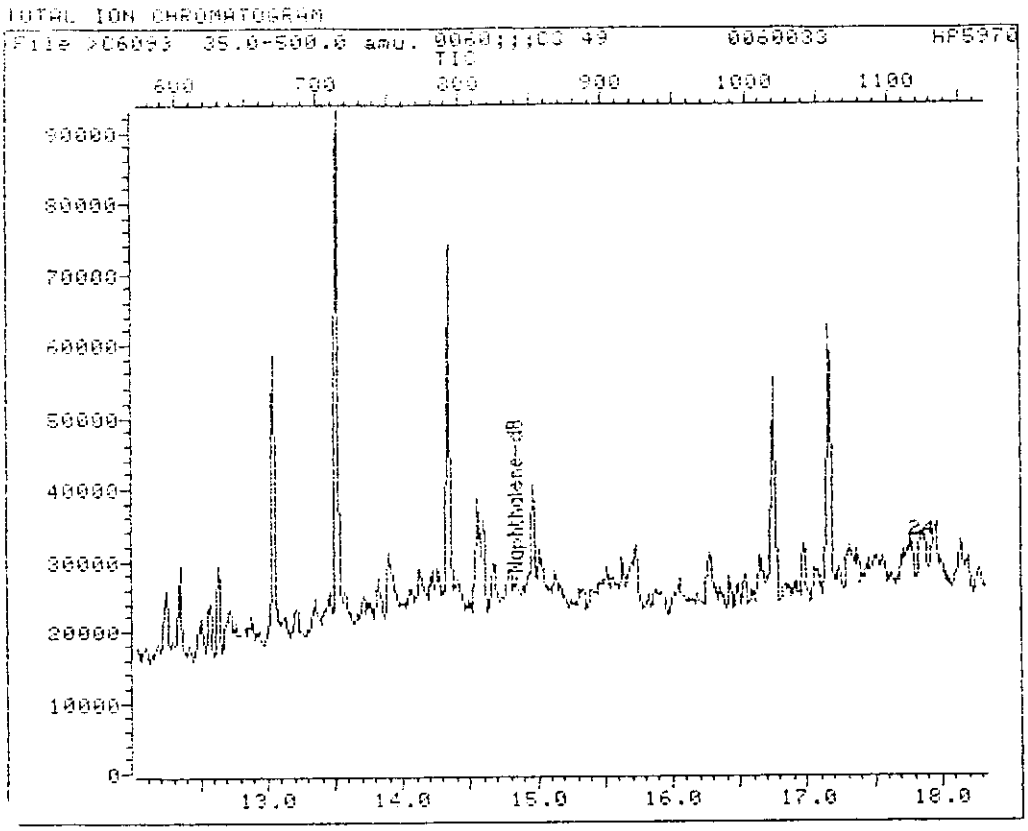


Data File: >C6093::C1 Quant Output File: ^C6093::QT
Name: 0060;;;CS 49
Misc: 0060033 HP5970C;;;;1;;;C0968 BTL# 4

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

Operator ID: MSC
Quant Time: 930311 15:44
Injected at: 930311 15:12

TIC page 1 of 4



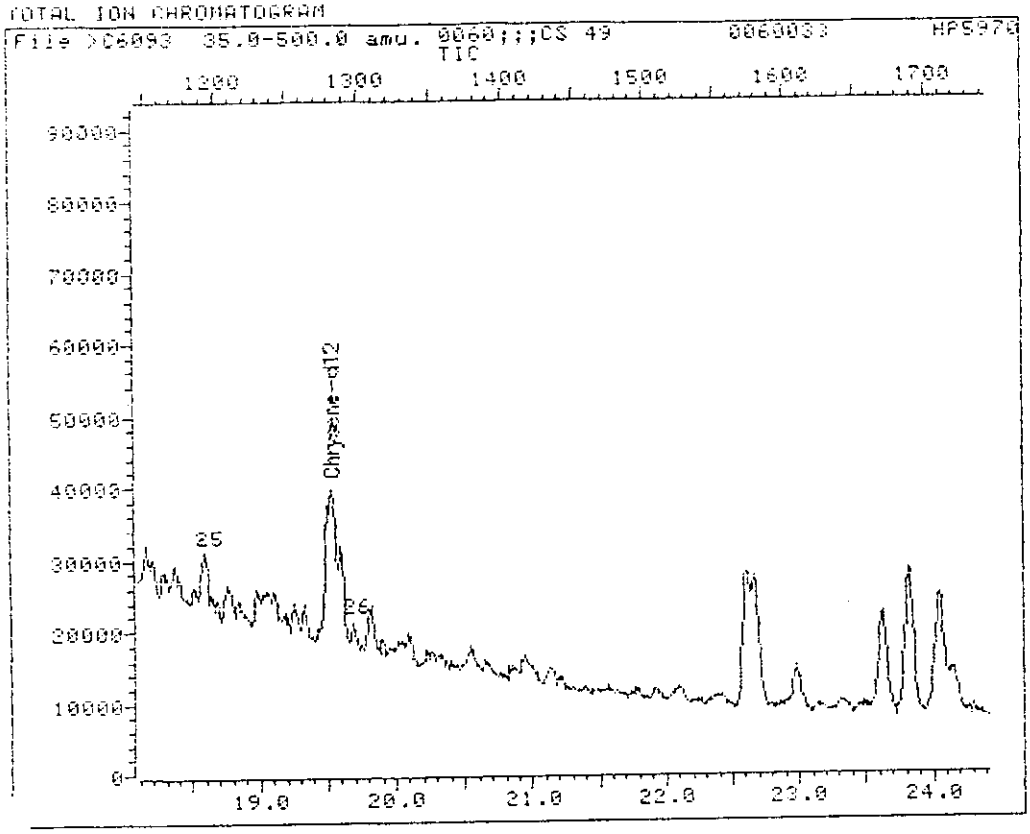
Data File: >C6093::C1 Quant Output File: ^C6093::QT
Name: 0060;;;CS 49
Misc: 0060033 HP5970C;;;;1;;;C0968 BTL# 4

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

Operator ID: MSC
Quant Time: 930311 15:44
Injected at: 930311 15:12

TIC page 2 of 4

TOTAL ION CHROMATOGRAM

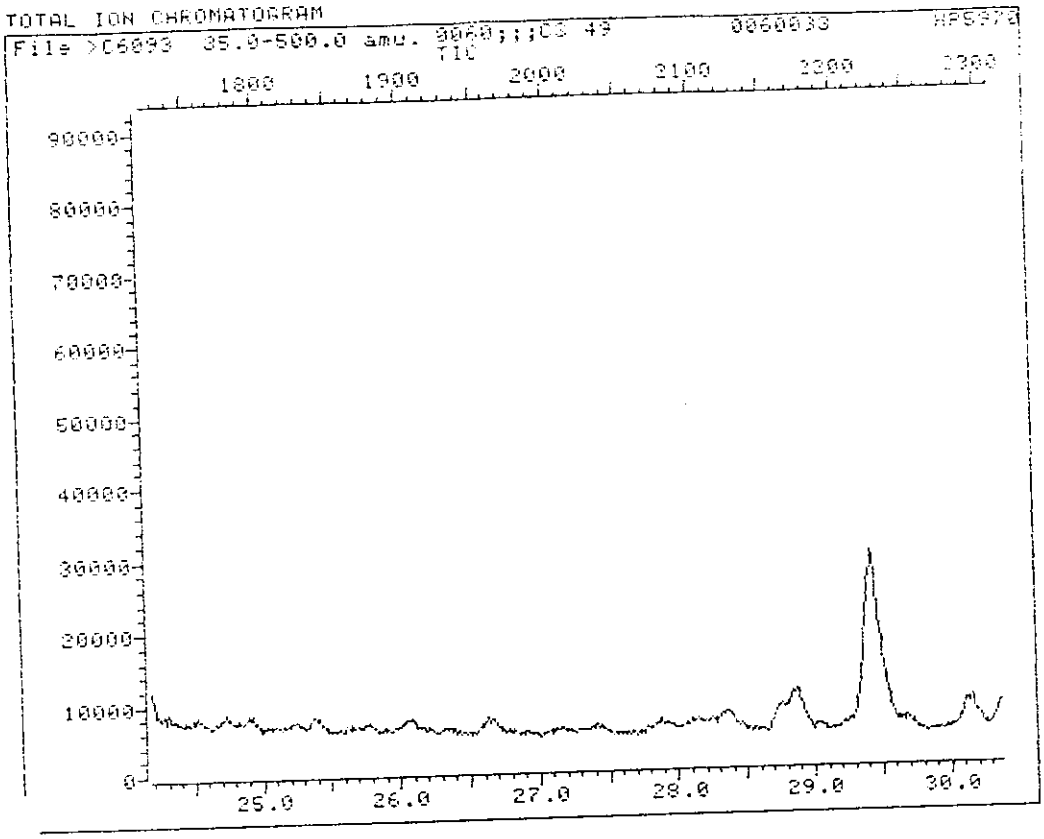


Data File: >C6093::C1 Quant Output File: ^C6093::QT
Name: 0060;;;CS 49
Misc: 0060033 HP5970C;;;;1;;;C0968 BTL# 4

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

Operator ID: MSC
Quant Time: 930311 15:44
Injected at: 930311 15:12

TIC page 3 of 4



Data File: >C6093::C1 Quant Output File: ^C6093::QT

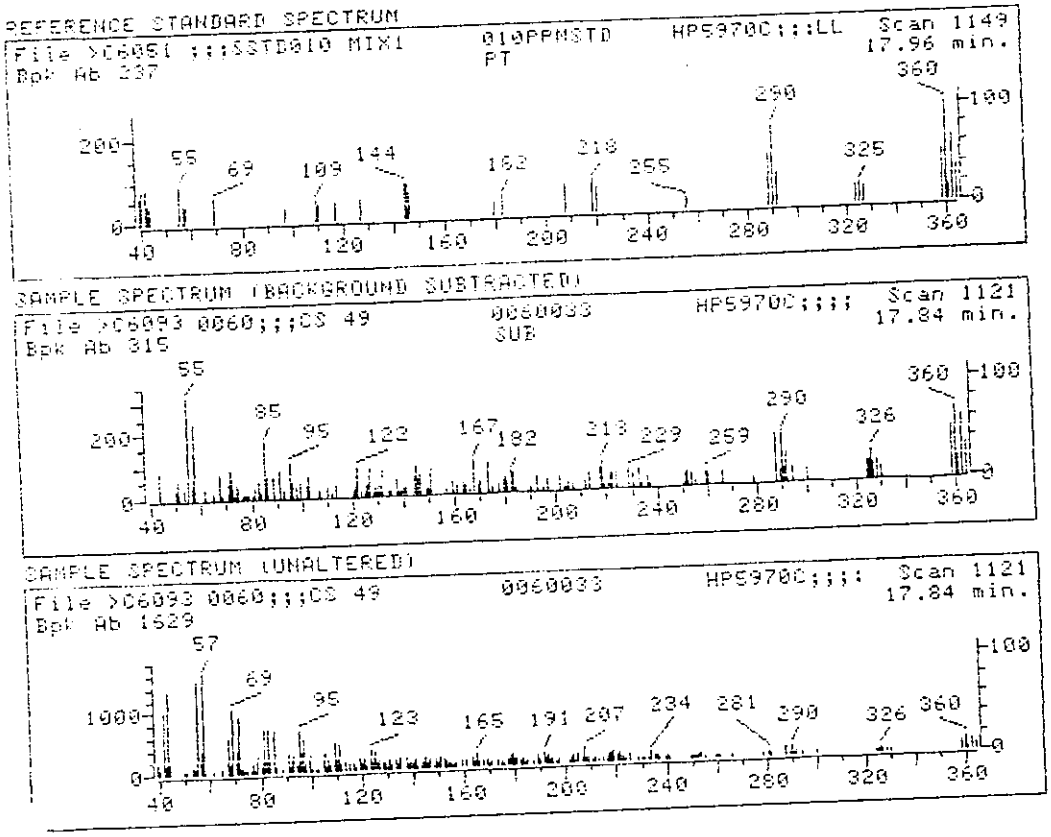
Name: 0060;;;CS 49

Misc: 0060033 HP5970C;;;;1;;;C0968 BTL# 4

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

Operator ID: MSC
Quant Time: 930311 15:44
Injected at: 930311 15:12

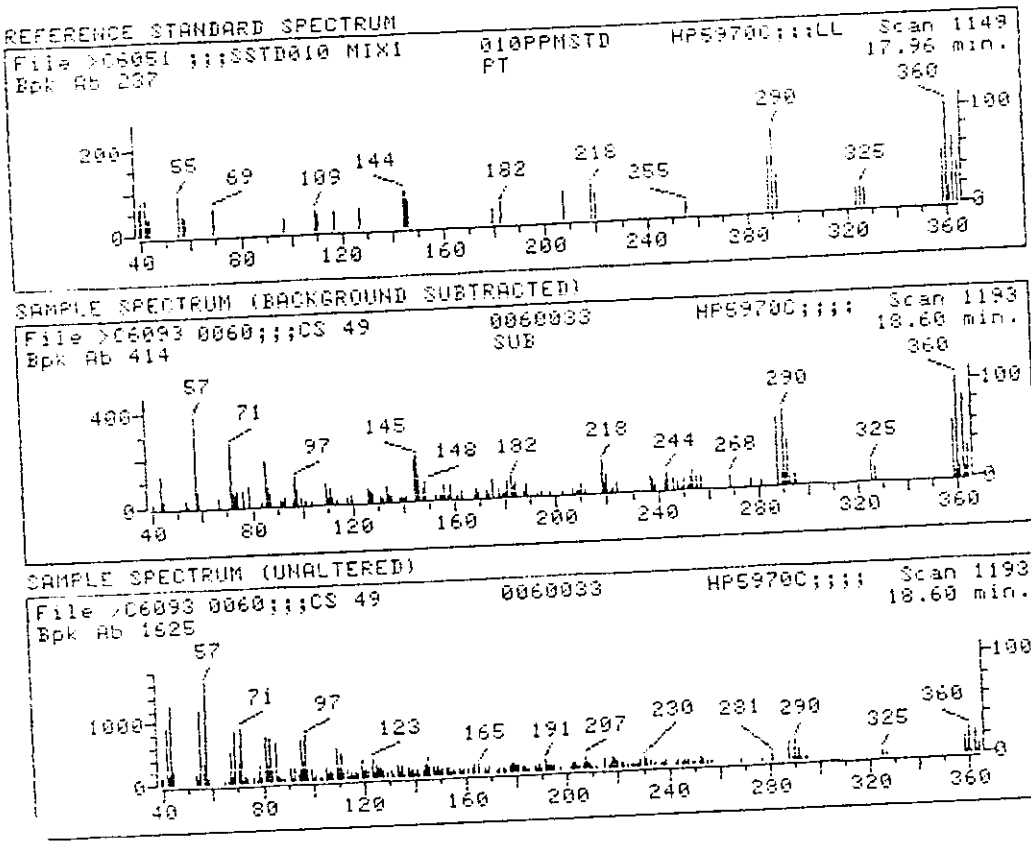
TIC page 4 of 4



Data File: >C6093::C1
Name: 0060;;;CS 49
Misc: 0060033 HP5970C;;;;1;;;C0968
Quant Time: 930311 15:44
Injected at: 930311 15:12

Quant Output File: ^C6093::QT
BTL# 4
Quant ID File: I_PCBC::N1
Last Calibration: 930310 11:54

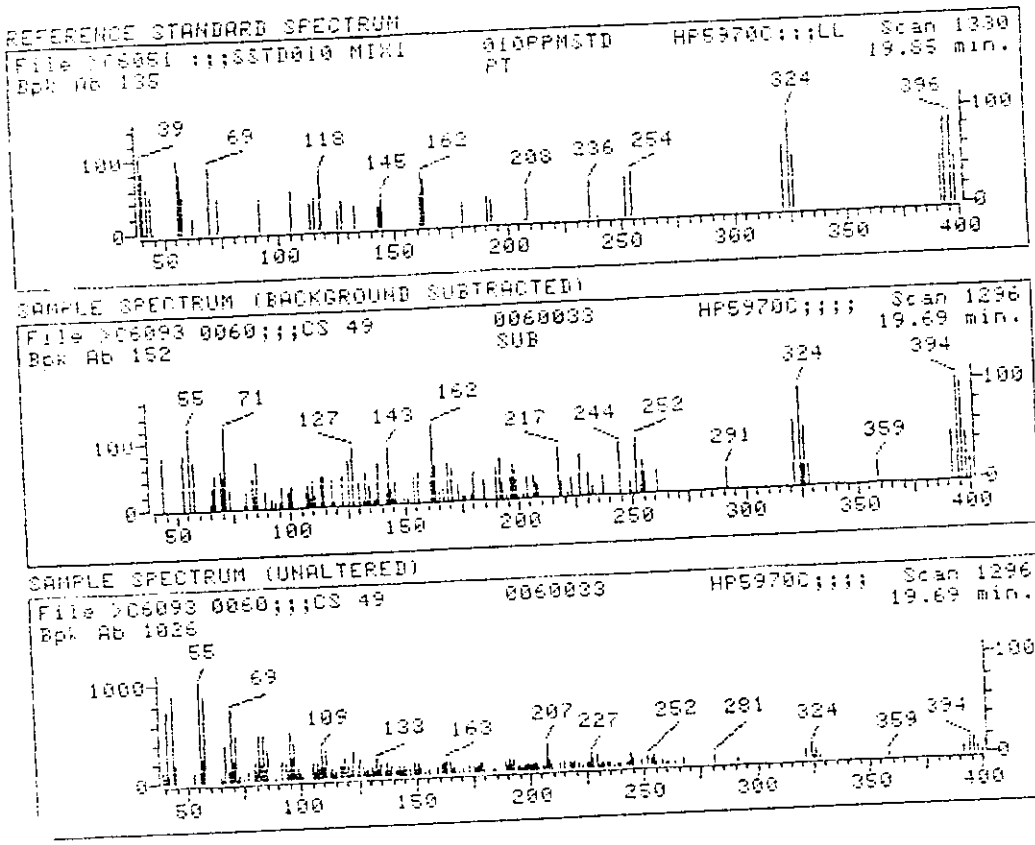
Compound No: 24
Compound Name: Arochlor 1260 (1)
Scan Number: 1121
Retention Time: 17.84 min.
Quant Ion: 360.0
Area: 385
Concentration: 27.16 UG
q-value: 96



Data File: >C6093::C1
Name: 0060;;;CS 49
Misc: 0060033 HP5970C;;;;1;;;C0968
Quant Time: 930311 15:44
Injected at: 930311 15:12

Quant Output File: ^C6093::QT
BTL# 4
Quant ID File: I_PCBC::N1
Last Calibration: 930310 11:54

Compound No: 25
Compound Name: Arochlor 1260 (2)
Scan Number: 1193
Retention Time: 18.60 min.
Quant Ion: 360.0
Area: 968
Concentration: 70.66 UG
q-value: 91



Data File: >C6093::C1
Name: 0060;;;CS 49
Misc: 0060033
Quant Time: 930311 15:44
Injected at: 930311 15:12

Quant Output File: ^C6093::QT

HP5970C;;;;1;;;C0968

BTL# 4

Quant ID File: !_PCBC::N1
Last Calibration: 930310 11:54

Compound No: 26
Compound Name: Arochlor 1260 (3)
Scan Number: 1296
Retention Time: 19.69 min.
Quant Ion: 324.0
Area: 289
Concentration: 27.83 UG
q-value: 87

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS53 07

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060034

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209414.D

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/20/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

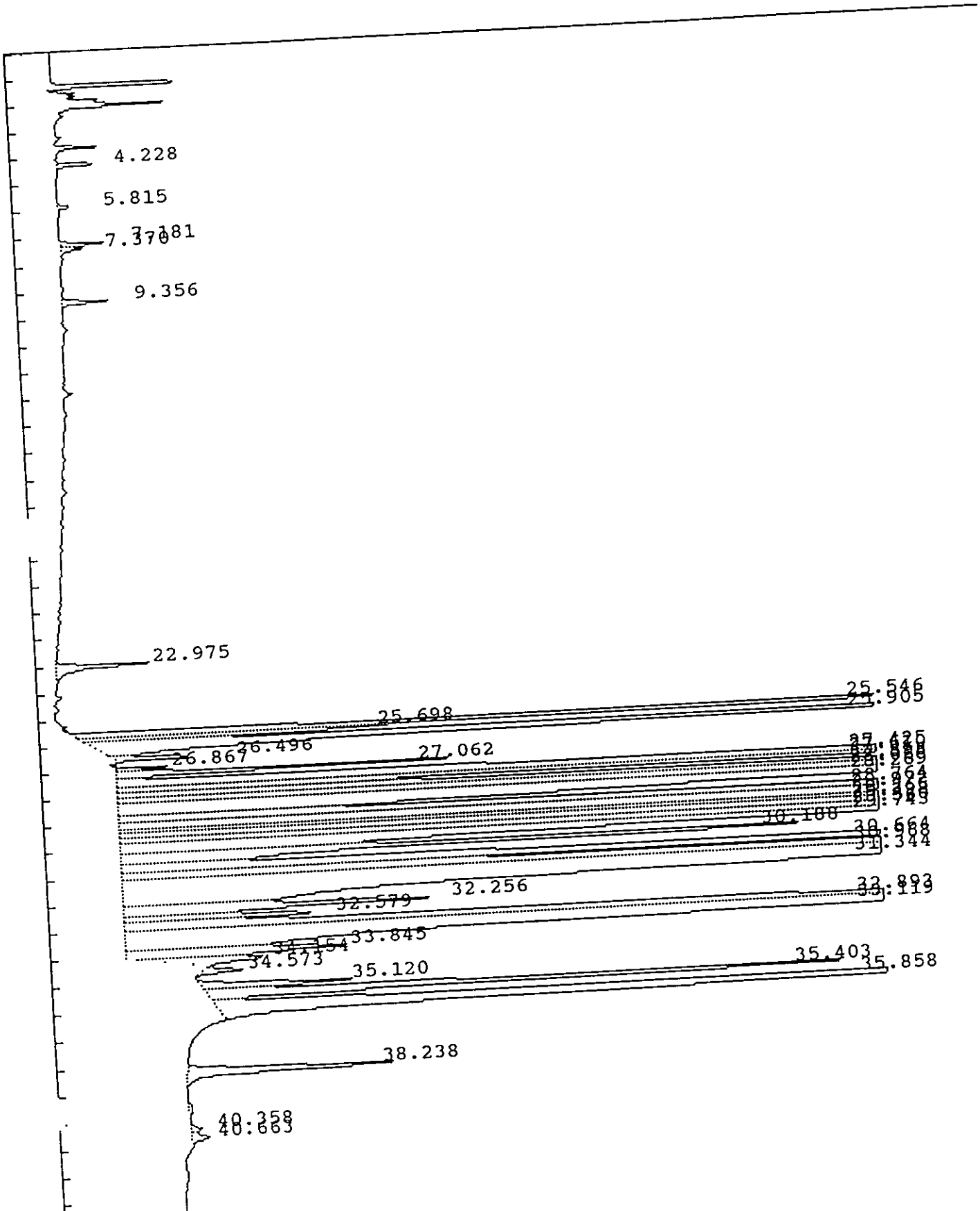
GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3800	U
11104-28-2	Aroclor-1221	7600	U
11141-16-5	Aroclor-1232	3800	U
53469-21-9	Aroclor-1242	3800	U
12672-29-6	Aroclor-1248	3800	U
11097-69-1	Aroclor-1254	150000 ~~10000~~	C B P
11096-82-5	Aroclor-1260		

VA 3/15/93

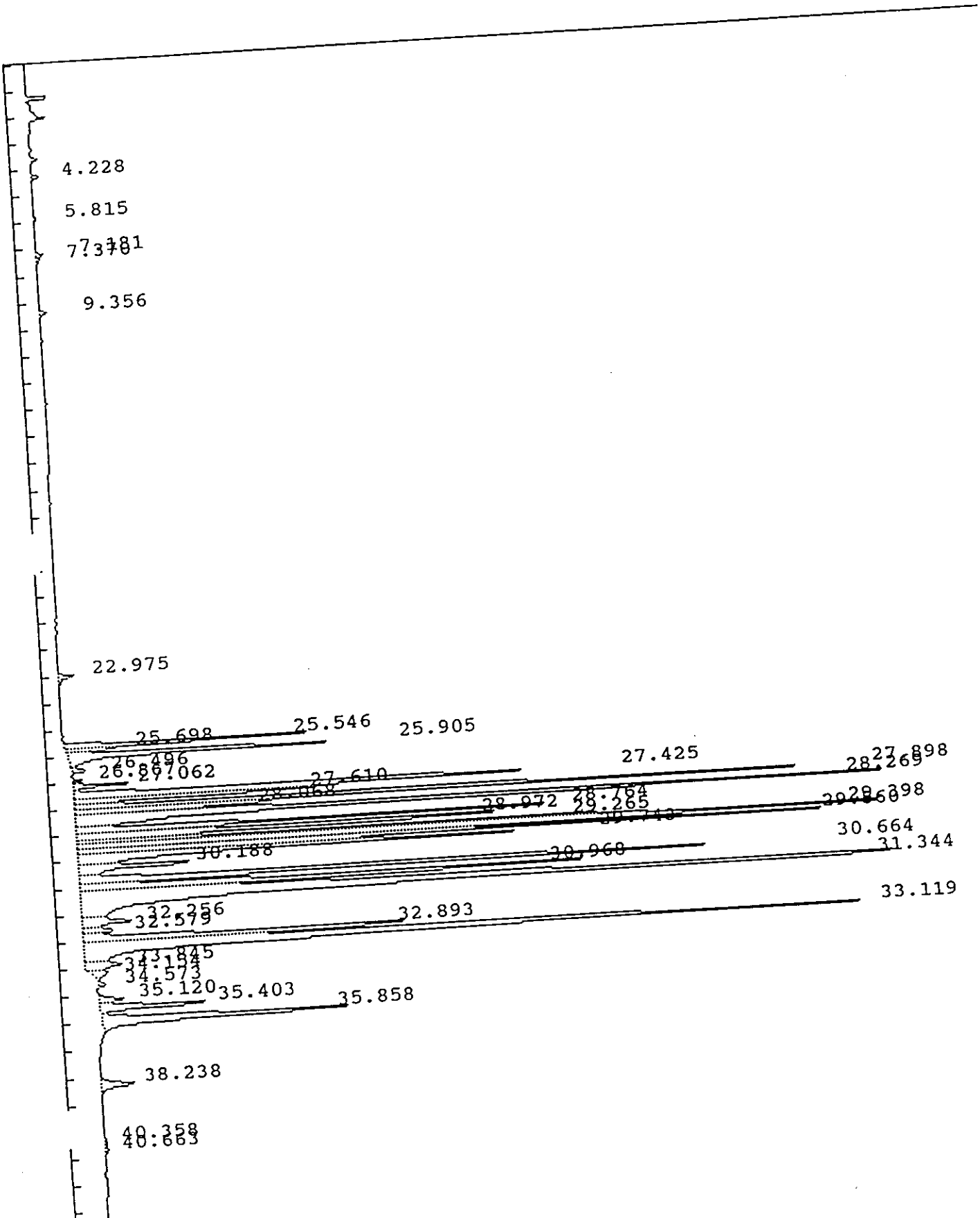
IEA Pesticide Standard Report

Sample Name : 0060034 CS-53 DF=100 Inj on 1106 20Feb1993 INSTRUMENT: HP58901A
Result File :/DATA/LOOP/RESULT/A1209414.RES Inj. Vol. : 1 ul
Column Type : RTX-35 30-Meter,0.53mm ID



IEA Pesticide Standard Report
Inj on 1106 20Feb1993

Sample Name : 0060034 CS-53 DF=100 INSTRUMENT: HP58901A
Result File :/DATA/LOOP/RESULT/A1209414.RES Inj. Vol. : 1 ul
Column Type : RTX-35 30-Meter,0.53mm ID



IEA Pesticide Standard Report

Report No :523.10

Sample Name : 0060034 CS-53 DF=100
Result File : /DATA/LOOP/RESULT/A1209414.RES
Column Type : RTX-35 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP58901A
Calculation : ExternalSTD
Run Time : 46.25 Mins. Injected on 1106 20Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/A1209.SEQ
Subseq/Sample : 5/ 18 Bottle no. : 18

% Dil-Fact
3333.00

Run Status : SignalOverload

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.23		.082437	56300	BB	0.0000	
2	5.81		.119586	19746	BB	0.0000	
3	7.18		.101483	59259	BV	0.0000	
4	7.37		.119882	32255	VB	0.0000	
5	9.36		.118245	68847	BB	0.0000	
6	22.98	22.99	.147142	183981	BB	1.8641	~~Aldrin~~
7	25.55		.096177	1975671	PV	0.0000	
8	25.70	25.72	.094726	397338	VV	4.0835	~~gamma-Chlordane~~
9	25.91		.124174	2950415	VV	0.0000	
10	26.50		.094615	123479	VB	0.0000	
11	26.87	26.93	.071768	52636	BV	.6610	~~4,4'-DDE~~
12	27.06		.095940	441642	VV	0.0000	
13	27.42		.134582	5414797	VV	0.0000	
14	27.61		.116787	2128560	VV	0.0000	
15	27.90		.111874	6560924	GS	0.0000	
16	28.07	28.13	.097989	1559109	HS	23.5120	~~Endrin~~
17	28.27		.158393	9290128	GS	0.0000	
18	28.76		.094739	3732172	HS	0.0000	
19	28.97		.144480	4735560	HS	0.0000	
20	29.26	29.32	.091602	4582139	HS	70.9748	~~4,4'-DDT~~
21	29.40		.135828	7967483	GS	0.0000	
22	29.56	29.50	.106385	6239314	GS	105.5497	~~Endrin aldehyde~~
23	29.74		.132513	5092955	HS	0.0000	
24	30.19	AK1260	.156000	1602562	HS	0.0000	
25	30.66		.114430	6451833	GS	0.0000	
26	30.97		.131445	5200069	HS	0.0000	
27	31.34		.262263	15384618	GS	0.0000	
28	32.26		.210757	832480	HS	0.0000	
29	32.58		.182519	437449	HS	0.0000	
30	32.89		.138901	3646742	HS	0.0000	
31	33.12		.192767	11305784	GS	0.0000	
32	33.84		.252392	670386	HS	0.0000	
33	34.15		.231957	319243	HS	0.0000	
34	34.57		.131141	64952	BV	0.0000	
35	35.12		.161808	295833	PV	0.0000	
36	35.40		.154643	1281029	VV	0.0000	
37	35.86		.182113	3397842	VB	0.0000	
38	38.24		.203111	509268	BB	0.0000	
39	40.36		.335304	40279	BV	0.0000	
40	40.66	#40.67	.200663	39867	VB	.3339	~~Decachlorobiphenyl~~

a23/11

Total Area : 115144960 Total PPB : 206.979

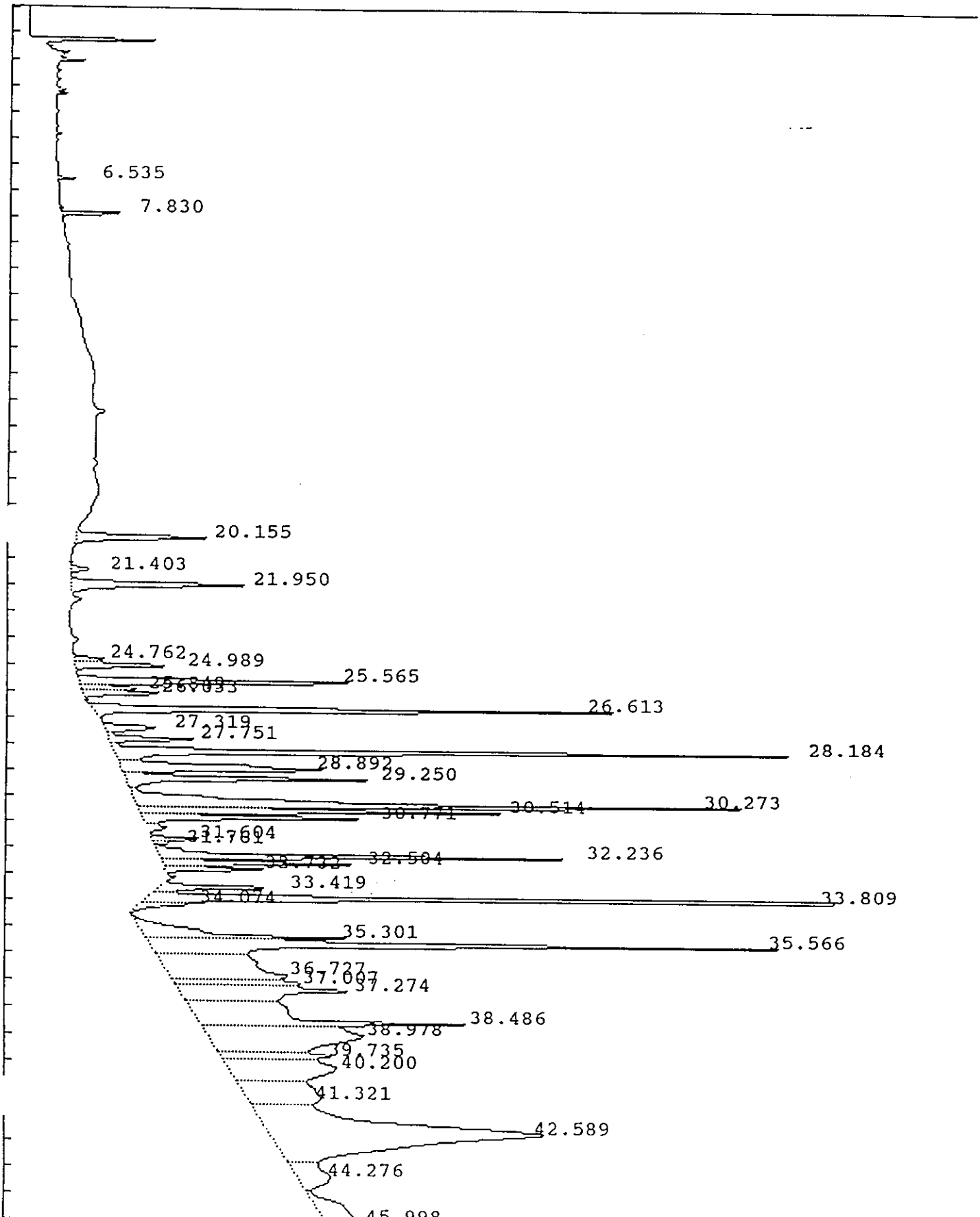
IEA Pesticide Standard Report

Report Time : 1418 23Feb1993
Method : /DATA/LOOP/METHOD/A1209_414.MT
Result File : /DATA/LOOP/RESULT/A1209414.RES

IEA Pesticide Standard Report

Sample Name : 0060034 CS-53 DF=100
Result File :/DATA/LOOP/RESULT/B5041173.RES
Column Type : DB-1701 30-Meter,0.53mm ID

Inj on 0814 27Feb1993
INSTRUMENT: HP58905B
Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Imple Name : 0060034 CS-53 DF=100 Report No :129.00
Result File : /DATA/LOOP/RESULT/B5041173.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP58905B
Calculation : ExternalSTD
Run Time : 46.50 Mins. Injected on 0814 27Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/B5041.SEQ
Subseq/Sample : 2/ 74 Bottle no. : 74

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.54		.062741	5256	BB	0.0000	
2	7.83	7.87	.072299	26573	BB	.6048	~~Tetrachloro-m-xylene~~
3	20.16		.185195	96543	BB	0.0000	
4	21.40		.183892	13688	BB	0.0000	
5	21.95		.197394	137023	BV	0.0000	
6	24.76		.143236	17799	BV	0.0000	
7	24.99		.159943	62237	VV	0.0000	
8	25.57		.163173	188583	PV	0.0000	
9	25.85		.143131	33904	VV	0.0000	
10	26.03		.155152	51751	VB	0.0000	
11	26.61		.149039	321851	BB	0.0000	
12	27.32	27.29	.206933	43884	BV	1.6706	~~Endrin~~
13	27.75		.150002	54255	VV	0.0000	
14	28.18		.152324	434954	VV	0.0000	
15	28.89		.227428	203679	VV	0.0000	
16	29.25		.169282	170733	VV	0.0000	
17	30.27		.198005	504981	VV	0.0000	
18	30.51		.136240	207285	VV	0.0000	
19	30.77		.144657	138134	VV	0.0000	
20	31.60		.124079	25901	VV	0.0000	
21	31.76		.105316	7315	VV	0.0000	
22	32.24	AR1260	.138574	245179	VV	0.0000	
23	32.50		.127550	105451	VV	0.0000	
24	32.73	32.78	.126096	55324	VV	3.3896	~~Endrin aldehyde~~
25	33.42		.146845	70936	BV	0.0000	
26	33.81		.128186	471686	VV	0.0000	
27	34.07		.167139	31498	VV	0.0000	
28	35.30		.238754	198181	PV	0.0000	
29	35.57		.197214	518590	VV	0.0000	
30	36.73		.748776	353376	VV	0.0000	
31	37.01		.194677	98602	VV	0.0000	
32	37.27		.393784	283175	VV	0.0000	
33	38.49		.388105	432691	VV	0.0000	
34	38.98		.814649	499807	VV	0.0000	
35	39.74		.234108	103865	VV	0.0000	
36	40.20		.743358	315407	VV	0.0000	
37	41.32		.839153	241240	VV	0.0000	
38	42.59		1.008081	1091424	VV	0.0000	

AR93/11

IEA Pesticide Standard Report

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
39	44.28		.820356	108439	VV	0.0000	
40	46.00		.944948	148296	VB	0.0000	

Total Area : 8119498 Total PPB : 5.665

Report Time : 0903 27Feb1993
Method : /DATA/LOOP/METHOD/B5041.MTH
Result File : /DATA/LOOP/RESULT/B5041173.RES

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS53DL 085

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060034DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209413.D

% Moisture: 12 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/20/93

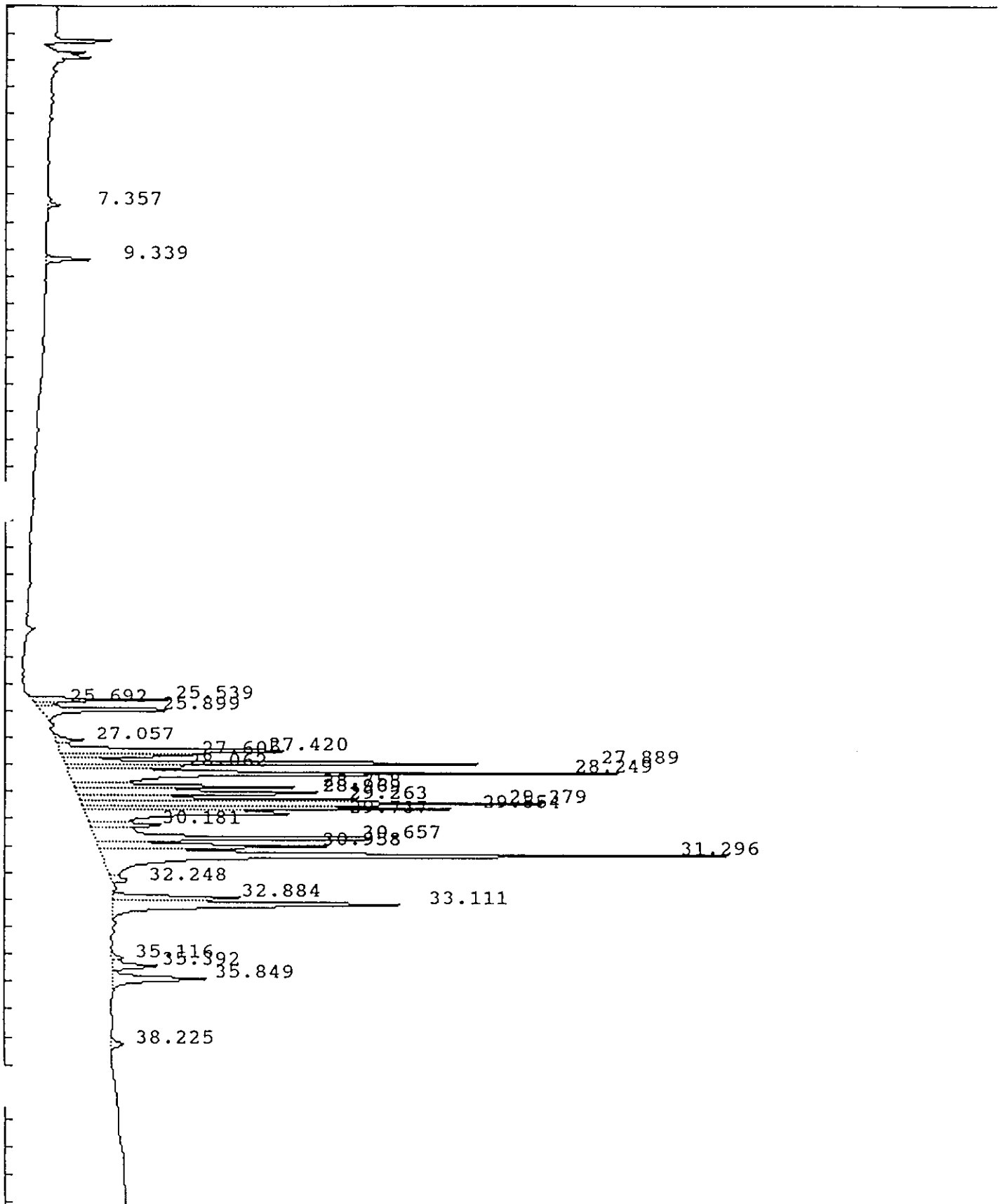
Injection Volume: 1.0(uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38000	U
11104-28-2	Aroclor-1221	76000	U
11141-16-5	Aroclor-1232	38000	U
53469-21-9	Aroclor-1242	38000	U
12672-29-6	Aroclor-1248	38000	U
11097-69-1	Aroclor-1254	38000	U
11096-82-5	Aroclor-1260	88000	C BPD

IEA Pesticide Standard Report

Sample Name : 0060034 CS-53 DF=1000 Inj on 1004 20Feb1993
Result File :/DATA/LOOP/RESULT/A1209413.RES INSTRUMENT: HP58901A
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060034 CS-53 DF=1000 Report No :522.00
Result File : /DATA/LOOP/RESULT/A1209413.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP58901A
Calculation : ExternalSTD
Run Time : 46.25 Mins. Injected on 1004 20Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/A1209.SEQ
Subseq/Sample : 5/ 17 Bottle no. : 17

% Dil-Fact
3333.00

Run Status : RunStatusOK
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	7.36		.103881	15568	BB	0.0000	
2	9.34		.127049	68333	BB	0.0000	
3	25.54		.098517	178860	BV	0.0000	
4	25.69	25.72	.094536	32167	VV	.3306	gamma-Chlordane
5	25.90		.132923	265250	VB	0.0000	
6	27.06		.155398	57608	BV	0.0000	
7	27.42		.150796	487446	VV	0.0000	
8	27.61		.121899	192153	VV	0.0000	
9	27.89		.107153	667831	VV	0.0000	
10	28.06	28.13	.100704	147303	VV	2.2214	Endrin
11	28.25		.146537	1041096	VV	0.0000	
12	28.76		.126248	367717	VV	0.0000	
13	28.97		.169949	491620	VV	0.0000	
14	29.26	29.32	.116941	440221	VV	6.8188	4,4'-DDT
15	29.38		.114684	670819	VV	0.0000	
16	29.55	29.50	.115388	539058	VV	9.1192	Endrin aldehyde
17	29.74		.168231	492029	VV	0.0000	
18	30.18		.164170	150388	VV	0.0000	
19	30.66		.162970	672879	VV	0.0000	
20	30.96		.150147	412686	VV	0.0000	
21	31.30		.185083	1440670	VV	0.0000	
22	32.25		.168747	36297	VB	0.0000	
23	32.88		.143725	224605	PV	0.0000	
24	33.11		.191822	688882	VV	0.0000	
25	35.12		.175439	22529	BV	0.0000	
26	35.39		.176749	94048	VV	0.0000	
27	35.85		.211844	235384	VB	0.0000	
28	38.22		.196185	30530	BB	0.0000	

AK1160

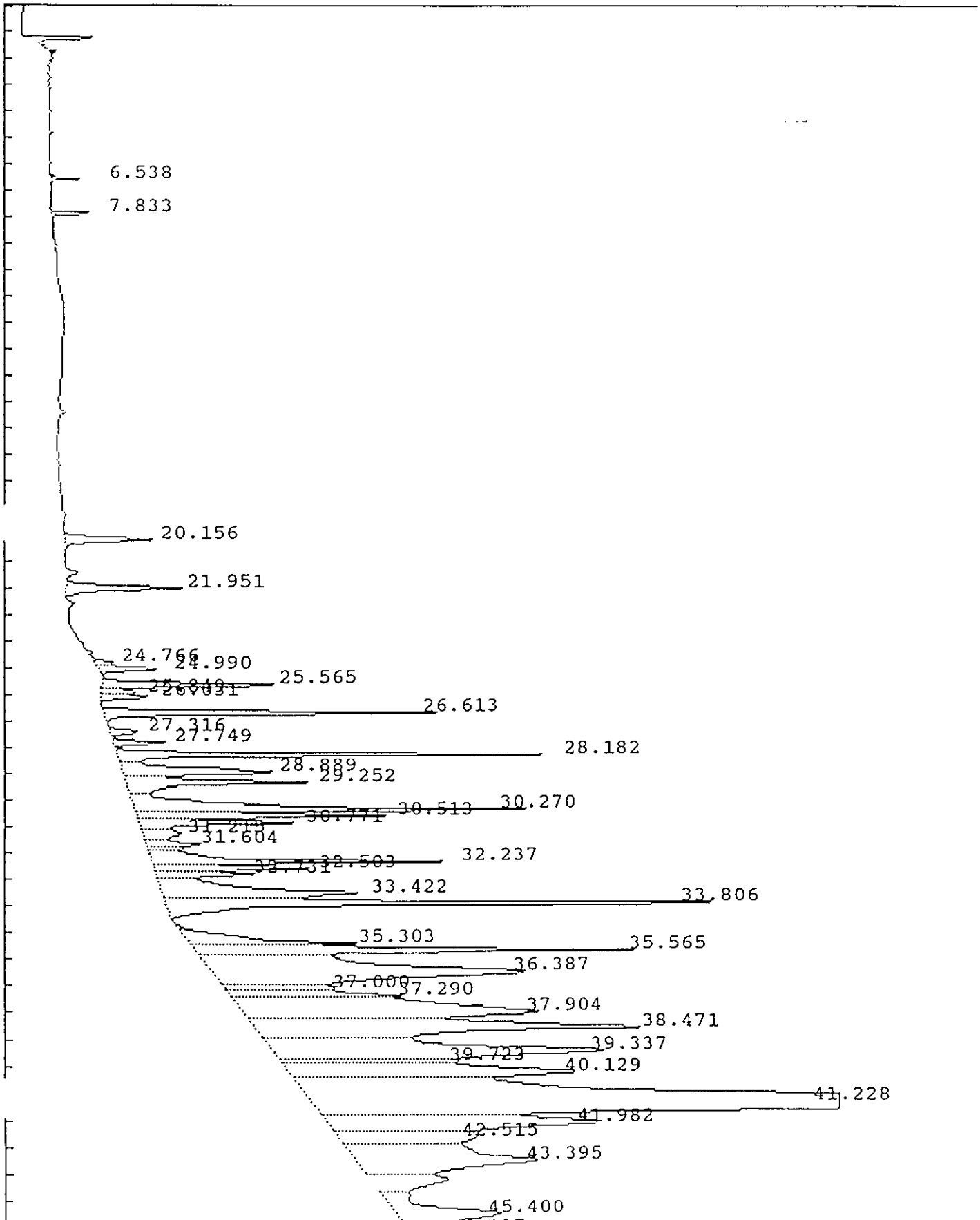
Aw3/11

Total Area : 10163978 Total PPB : 18.490

Report Time : 1051 20Feb1993
Method : /DATA/LOOP/METHOD/A1209.MTH
Result File : /DATA/LOOP/RESULT/A1209413.RES

IEA Pesticide Standard Report

Sample Name : 0060034 CS-53 DF=1000 Inj on 0720 27Feb1993
Result File :/DATA/LOOP/RESULT/B5041172.RES INSTRUMENT: HP58905B
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

ample Name : 0060034 CS-53 DF=1000 Report No :128.00
Result File : /DATA/LOOP/RESULT/B5041172.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP58905B
Calculation : ExternalSTD
Run Time : 46.50 Mins. Injected on 0720 27Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/B5041.SEQ
Subseq/Sample : 2/ 73 Bottle no. : 73

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.54		.065281	9051	BB	0.0000	
2	7.83	7.87	.072816	16978	BB	.3865	~~Tetrachloro-m-xylene~~
3	20.16		.187124	64386	BB	0.0000	
4	21.95		.202787	91990	BV	0.0000	
5	24.77		.200082	16567	PV	0.0000	
6	24.99		.167378	41136	VB	0.0000	
7	25.57		.165570	119030	BV	0.0000	
8	25.85		.145964	21213	VV	0.0000	
9	26.03		.151208	30700	VB	0.0000	
10	26.61		.153527	207517	BB	0.0000	
11	27.32	27.29	.206581	23425	BV	.8918	~~Endrin~~
12	27.75		.146537	31481	VV	0.0000	
13	28.18		.156093	277270	VV	0.0000	
14	28.89		.267564	167652	VV	0.0000	
15	29.25		.233301	170109	VV	0.0000	
16	30.27		.217216	348713	VV	0.0000	
17	30.51		.145583	148820	VV	0.0000	
18	30.77		.174676	114364	VV	0.0000	
19	31.22		.310207	48217	VV	0.0000	
20	31.60	AH1260	.189434	42105	VV	0.0000	0893/11
21	32.24		.181984	222649	VV	0.0000	
22	32.50		.154375	99913	VV	0.0000	
23	32.73	32.78	.177235	71596	VV	4.3865	~~Endrin aldehyde~~
24	33.42		.388493	307547	VV	0.0000	
25	33.81		.177785	442110	VV	0.0000	
26	35.30		.255920	169733	PV	0.0000	
27	35.57		.189070	342092	VV	0.0000	
28	36.39	36.39	.698381	846714	VV	32.9443	~~Endrin ketone~~
29	37.00		.165849	71169	VV	0.0000	
30	37.29		.232236	155430	VV	0.0000	
31	37.90		.609895	697197	VV	0.0000	
32	38.47		.439451	695218	VV	0.0000	
33	39.34		.525612	679905	VV	0.0000	
34	39.72		.141103	98501	VV	0.0000	
35	40.13		.461784	518832	VV	0.0000	
36	41.23		.458186	4432848	VV	0.0000	
37	41.98		.483144	513846	VV	0.0000	
38	42.51		.395582	217839	VV	0.0000	

IEA Pesticide Standard Report

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
39	43.40		.780083	556582	VV	0.0000	
40	45.40		.586619	239918	VV	0.0000	
41	46.14		.408607	72642	VB	0.0000	

Total Area : 13443008 Total PPB : 38.609

Report Time : 0810 27Feb1993
Method : /DATA/LOOP/METHOD/B5041.MTH
Result File : /DATA/LOOP/RESULT/B5041172.RES

QUANT REPORT Page 1

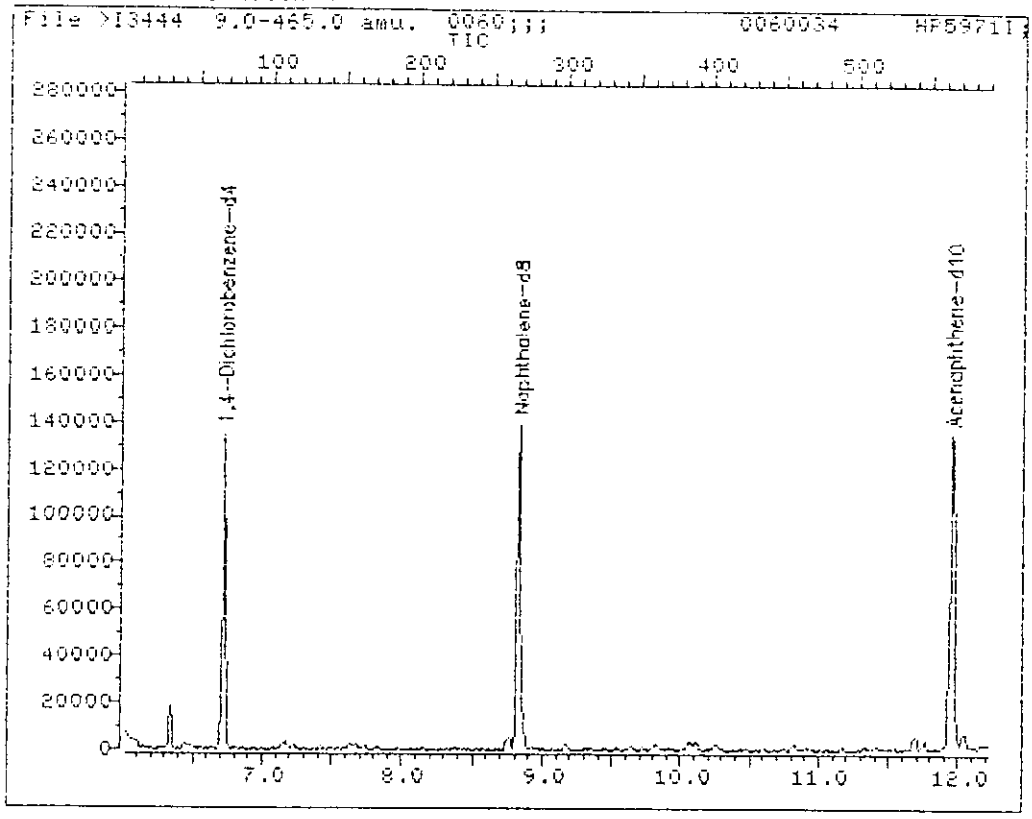
Operator ID: USER1 Quant Rev: 7 Quant Time: 930315 19:50
Output File: ^I3444::A6 Injected at: 930315 19:07
Data File: >I3444::A2 Dilution Factor: 1.00000
Name: 0060;;; CSS3 Instrument ID: **MSD
Misc: 0060034 HP59711;;;LLS;1;;;I0310

ID File: I_PCB::SC
Title: PCB Idfile
Last Calibration: : Last Qcal Time: 930224 18:19

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	6.72	150.0	52708	40.00	UG	97
2)	*Naphthalene-d8	8.83	135.9	124065	40.00	UG	97
3)	*Acenaphthene-d10	11.95	163.9	72430	40.00	UG	98
4)	*Phenanthrene-d10	14.60	187.9	116555	40.00	UG	100
7)	Aroclor-1016 (3)	15.74	221.8	800	39.88	UG	100
15)	Aroclor-1242 (2)	15.64	256.0	642	5.98	UG	100
16)	Aroclor-1242 (3)	17.01	292.0	855	19.42	UG	100
17)	Aroclor-1248 (1)	16.65	292.0	120	3.77	UG	55
18)	Aroclor-1248 (2)	17.01	292.0	855	44.49	UG	43
19)	Aroclor-1248 (3)	17.91	326.0	3784	487.32	UG	100
20)	Aroclor-1254 (1)	15.74	291.7	975	35.57	UG	76
21)	Aroclor-1254 (2)	18.66	361.7	22493	1702.99	UG	100
22)	Aroclor-1254 (3)	17.01	325.7	11107	885.82	UG	98
23)	*Chrysene-d12	19.63	240.0	98821	40.00	UG	99
24)	Aroclor-1260 (1)	18.22	360.0	25017	25017.00	NO CALIB	91
25)	Aroclor-1260 (2)	18.66	362.0	21559	21559.00	NO CALIB	89
26)	Aroclor-1260 (3)	19.77	394.0	18364	18364.00	NO CALIB	61

* Compound is ISTD

TOTAL ION CHROMATOGRAM

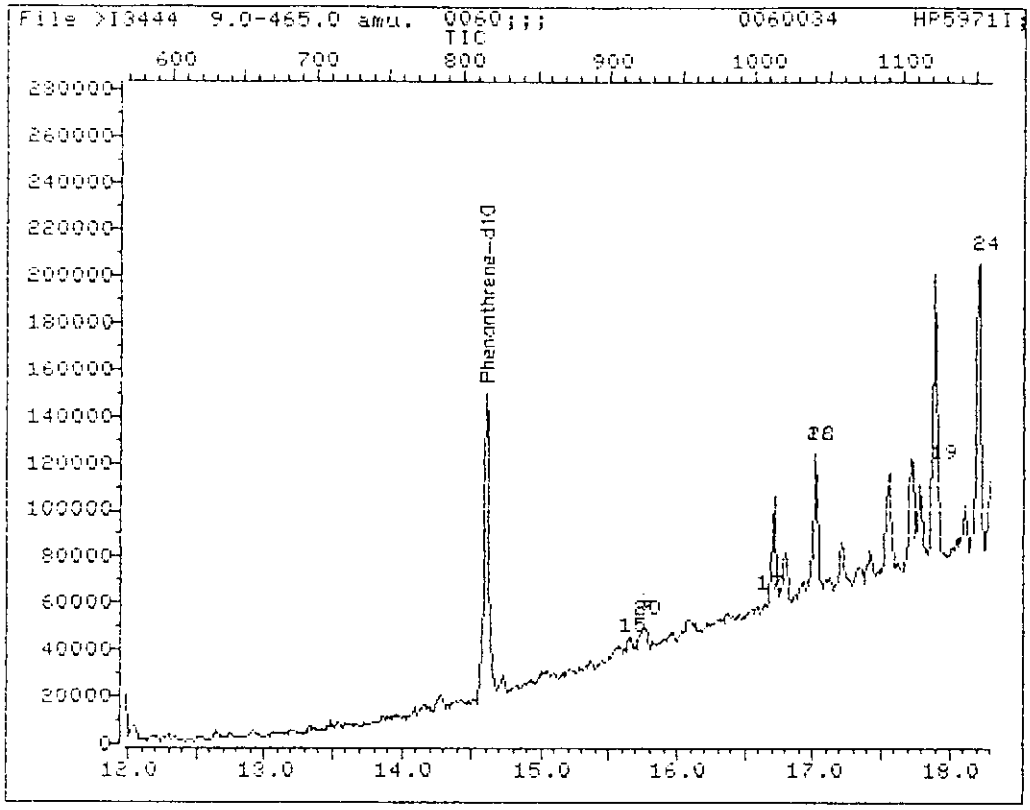


Data File: >I3444::A2 Quant Output File: ^I3444::A6
Name: 0060;;; Instrument ID: **MSD
Misc: 0060034 HP5971I;;;LLS;1;;;I0310

Id File: I_PCB::SC
Title: PCB Idfile
Last Calibration: : Last Qcal Time: 930224 18:15

Operator ID: USER1
Quant Time : 930315 19:50
Injected at: 930315 19:07

TOTAL ION CHROMATOGRAM

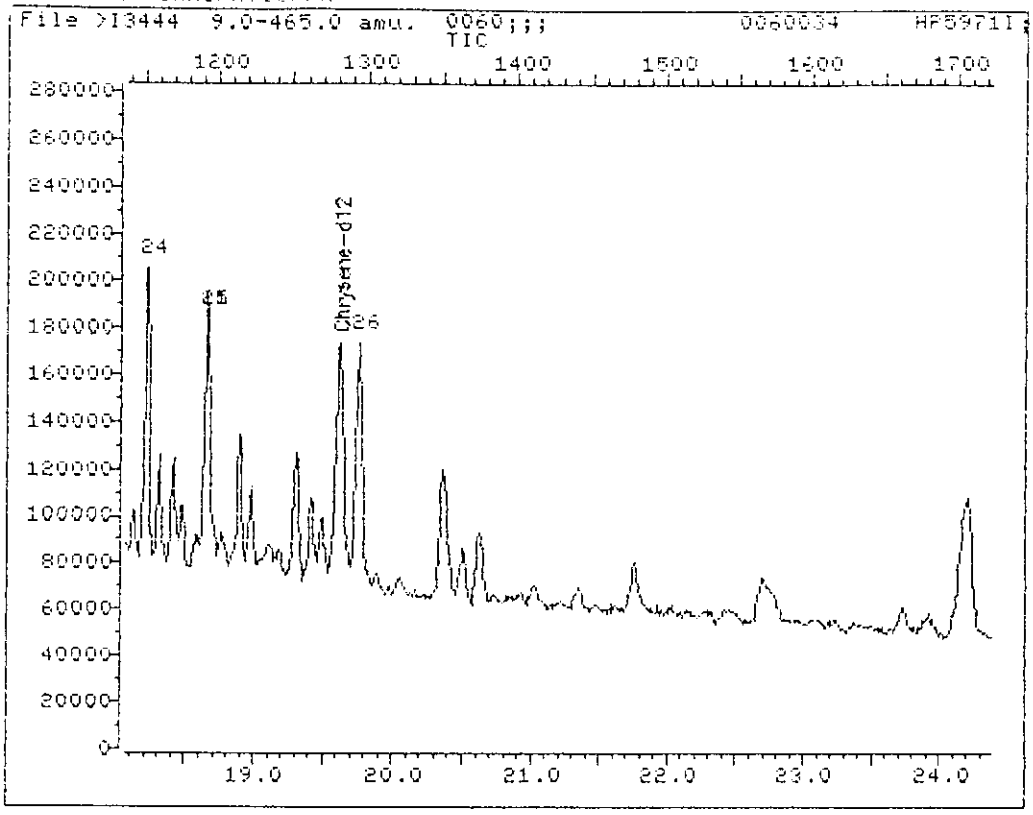


Data File: >I3444::A2 Quant Output File: ^I3444::A6
Name: 0060;;; Instrument ID: **MSD
Misc: 0060034 HP5971I;;;LLS;1;;;I0310

Id File: I_PCB::SC
Title: PCB Idfile
Last Calibration: : Last Qcal Time: 930224 18:15

Operator ID: USER1
Quant Time : 930315 19:50
Injected at: 930315 19:07

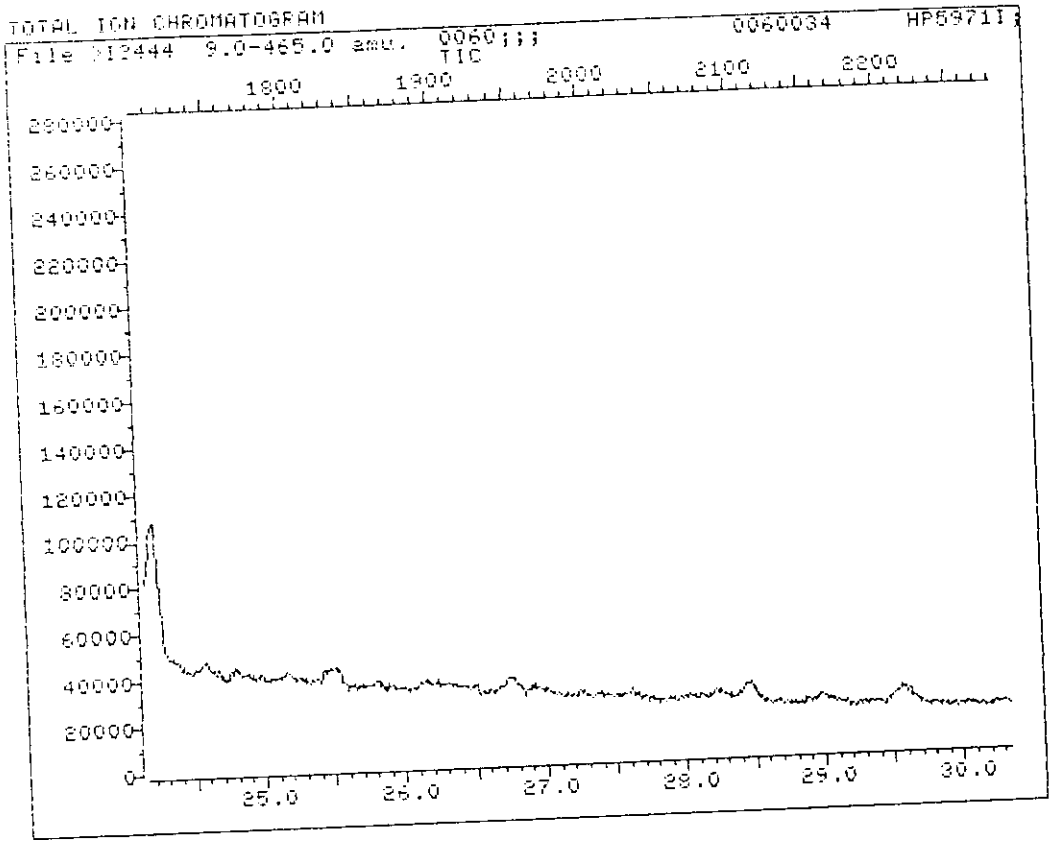
TOTAL ION CHROMATOGRAM



Data File: >I3444::A2 Quant Output File: ^I3444::A6
Name: 0060;;; Instrument ID: **MSD
Misc: 0060034 HP5971I;;;LLS;1;;;I0310

Id File: I_PCB::SC
Title: PCB Idfile
Last Calibration: : Last Qcal Time: 930224 18:15

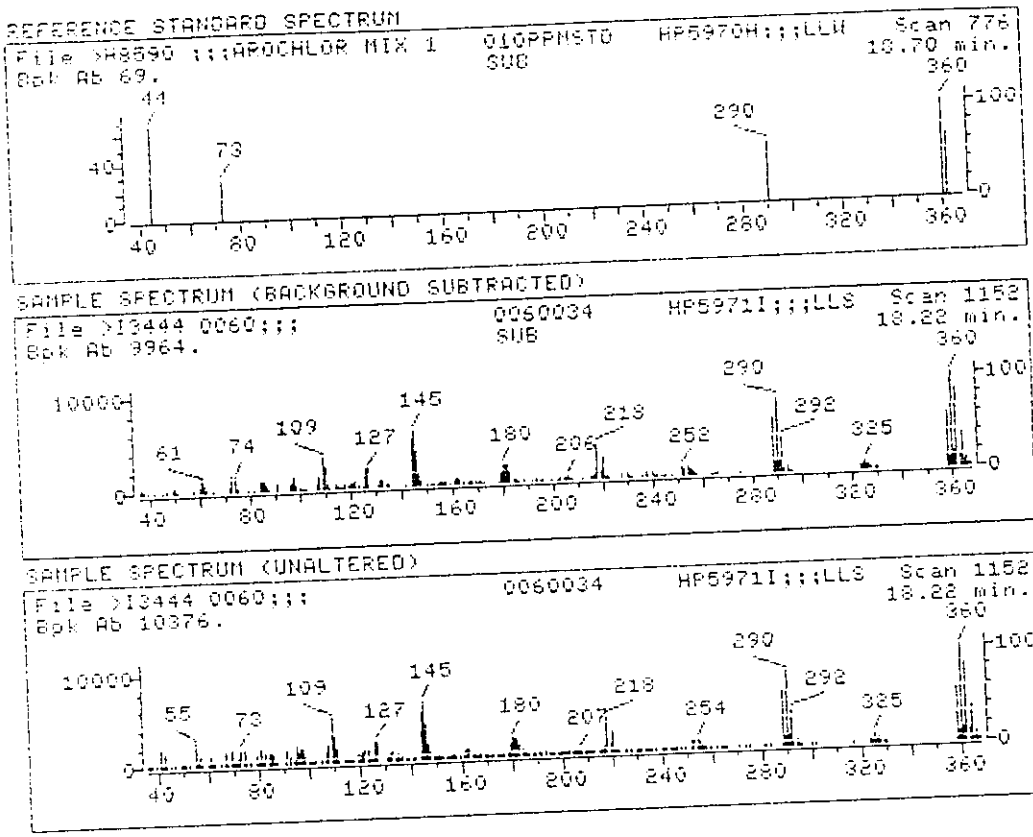
Operator ID: USER1
Quant Time : 930315 19:50
Injected at: 930315 19:07



Data File: >I3444::A2 Quant Output File: ^I3444::A6
Name: 0060;;; Instrument ID: **MSD
Misc: 0060034 HP5971I;;;LLS;1;;;I0310

Id File: I_PCB::SC
Title: PCB Idfile
Last Calibration: : Last Qcal Time: 930224 18:15

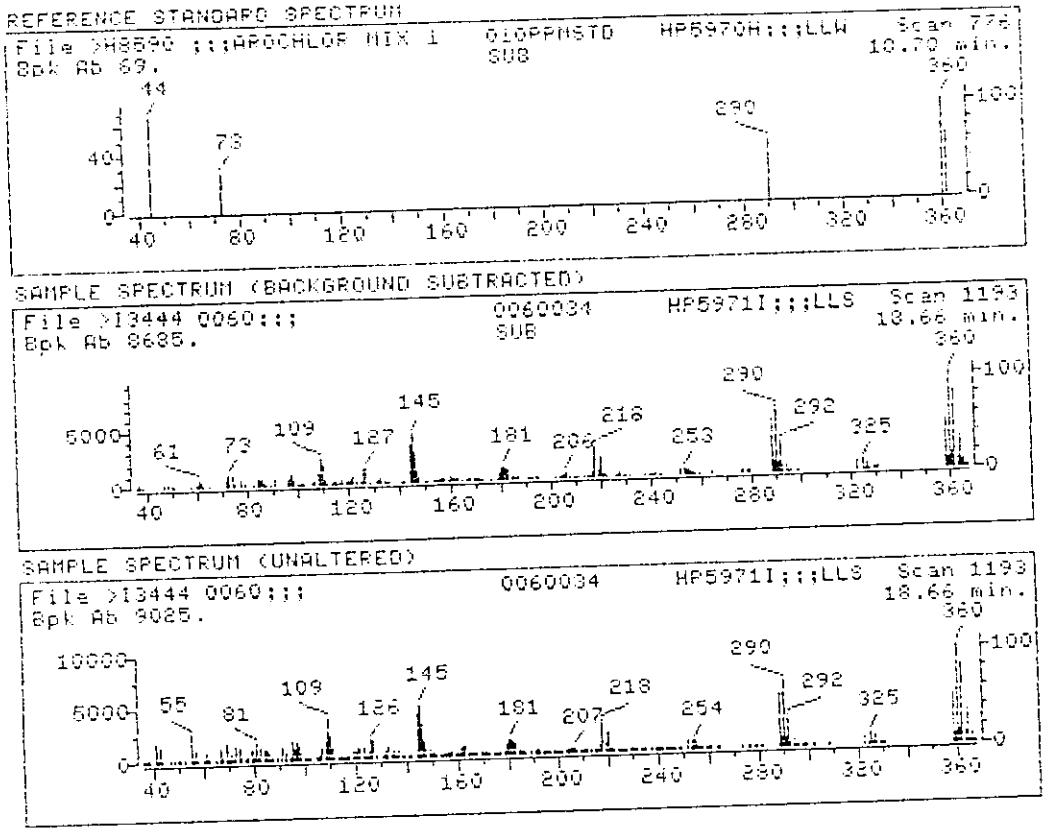
Operator ID: USER1
Quant Time : 930315 19:50
Injected at: 930315 19:07



Data File: >I3444::A2
Name: 0060;;;
Misc: 0060034 HP5971I;;;LLS;1;;;10310
Quant Time: 930315 19:50
Injected at: 930315 19:07
Last Qcal Time: 930224 18:19

Quant Output File: ^I3444::A6
Instrument ID: **MSD
Quant ID File: I_PCB::SC
Last Calibration: :

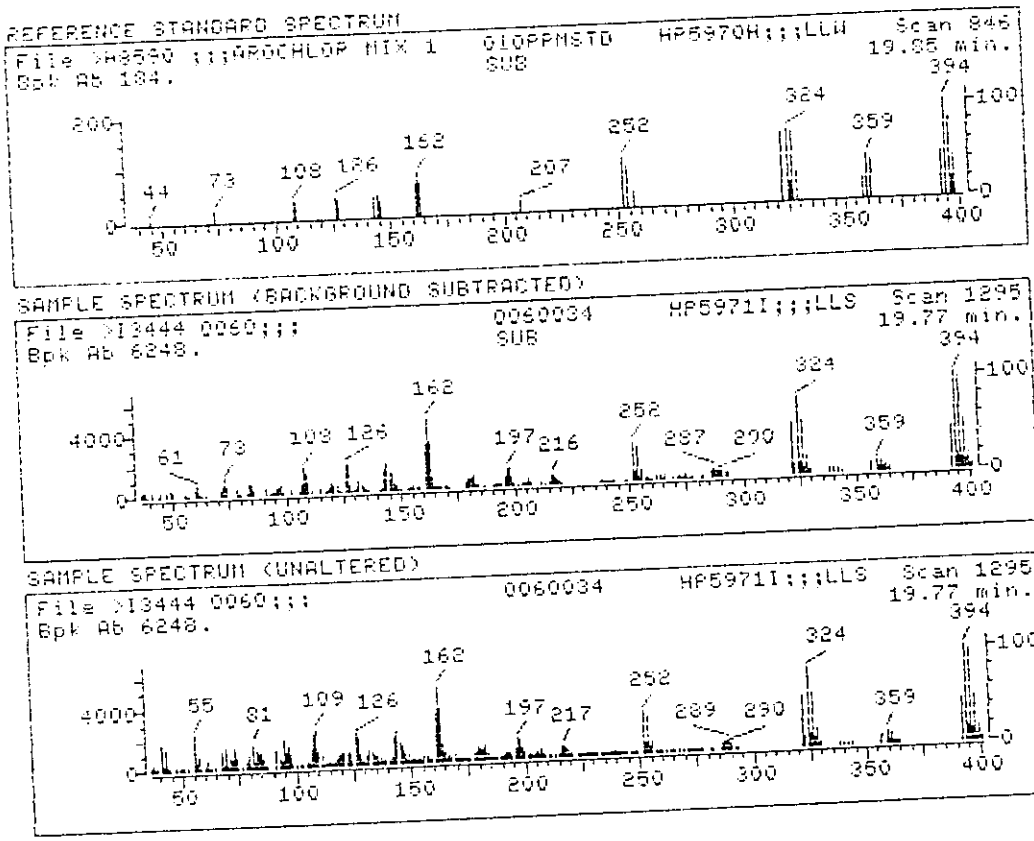
Compound No : 24
Compound Name : Aroclor-1260 (1)
Scan Number : 1152
Retention Time: 18.22 min.
Quant Ion : 360.0
Area : 25017
Concentration : 25017.00 NO CALIB
q-value : 91



Data File: >I3444::A2
Name: 0060;;;
Misc: 0060034 HP5971I;;;LLS;1;;;I0310
Quant Time: 930315 19:50
Injected at: 930315 19:07
Last Qcal Time: 930224 18:15

Quant Output File: ^I3444::A6
Instrument ID: **MSD
Quant ID File: I_PCB::SC
Last Calibration: :

Compound No : 25
Compound Name : Aroclor-1260 (2)
Scan Number : 1193
Retention Time: 18.66 min.
Quant Ion : 362.0
Area : 21559
Concentration : 21559.00 NO CALIB
q-value : 89



Data File: >I3444::A2
Name: 0060;;;
Misc: 0060034 HP5971I;;;LLS;1;;;I0310
Quant Time: 930315 19:50
Injected at: 930315 19:07
Last Qcal Time: 930224 18:15

Quant Output File: ^I3444::A6
Instrument ID: **MSD
Quant ID File: I_PCB::SC
Last Calibration: :

Compound No : 26
Compound Name : Aroclor-1260 (3)
Scan Number : 1295
Retention Time: 19.77 min.
Quant Ion : 394.0
Area : 18364
Concentration : 18364.00 NO CALIB
q-value : 61

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS64 099

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060035

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209416.D

% Moisture: 18 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/20/93

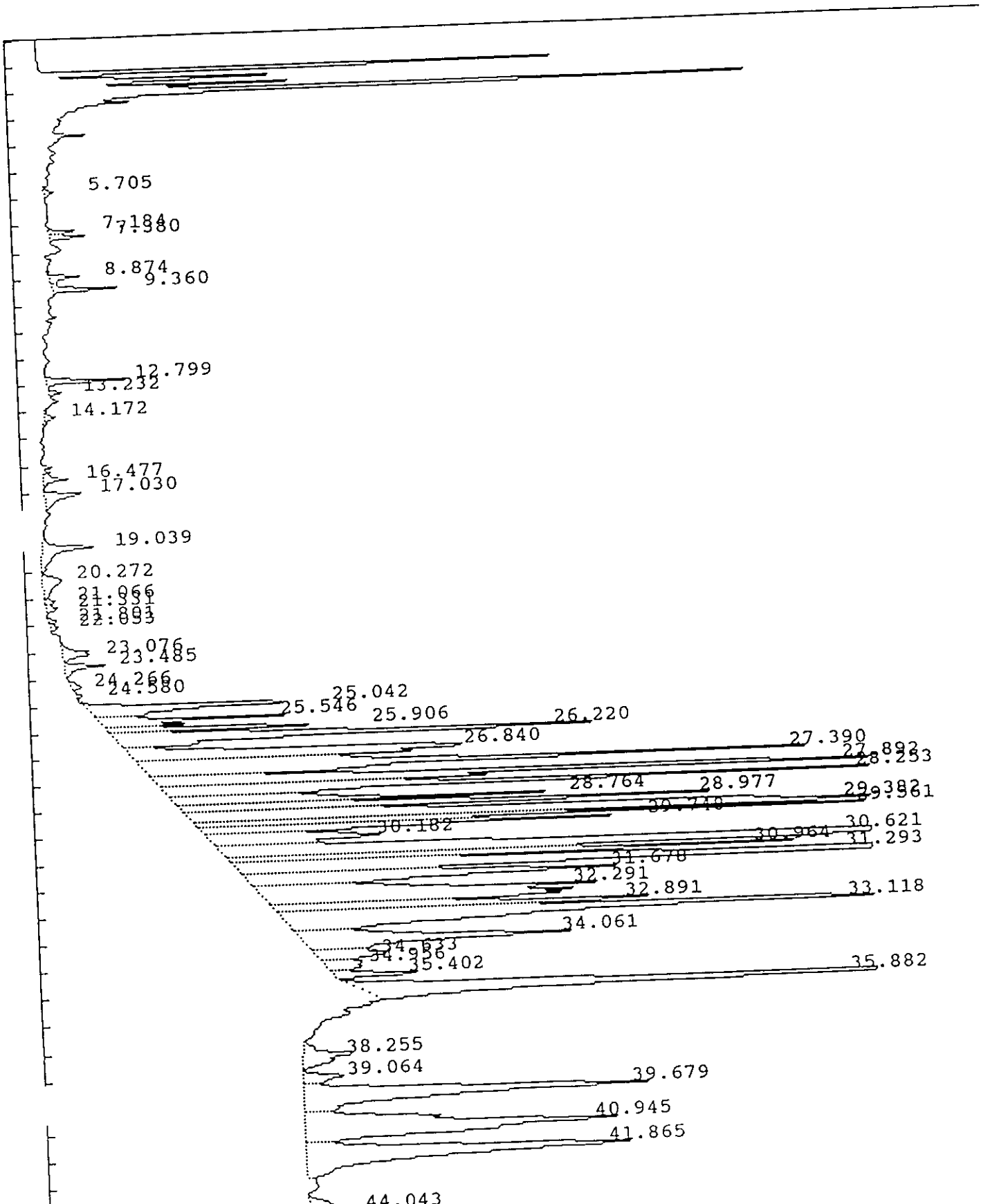
Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	820	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	1500	C BP
11096-82-5	Aroclor-1260		

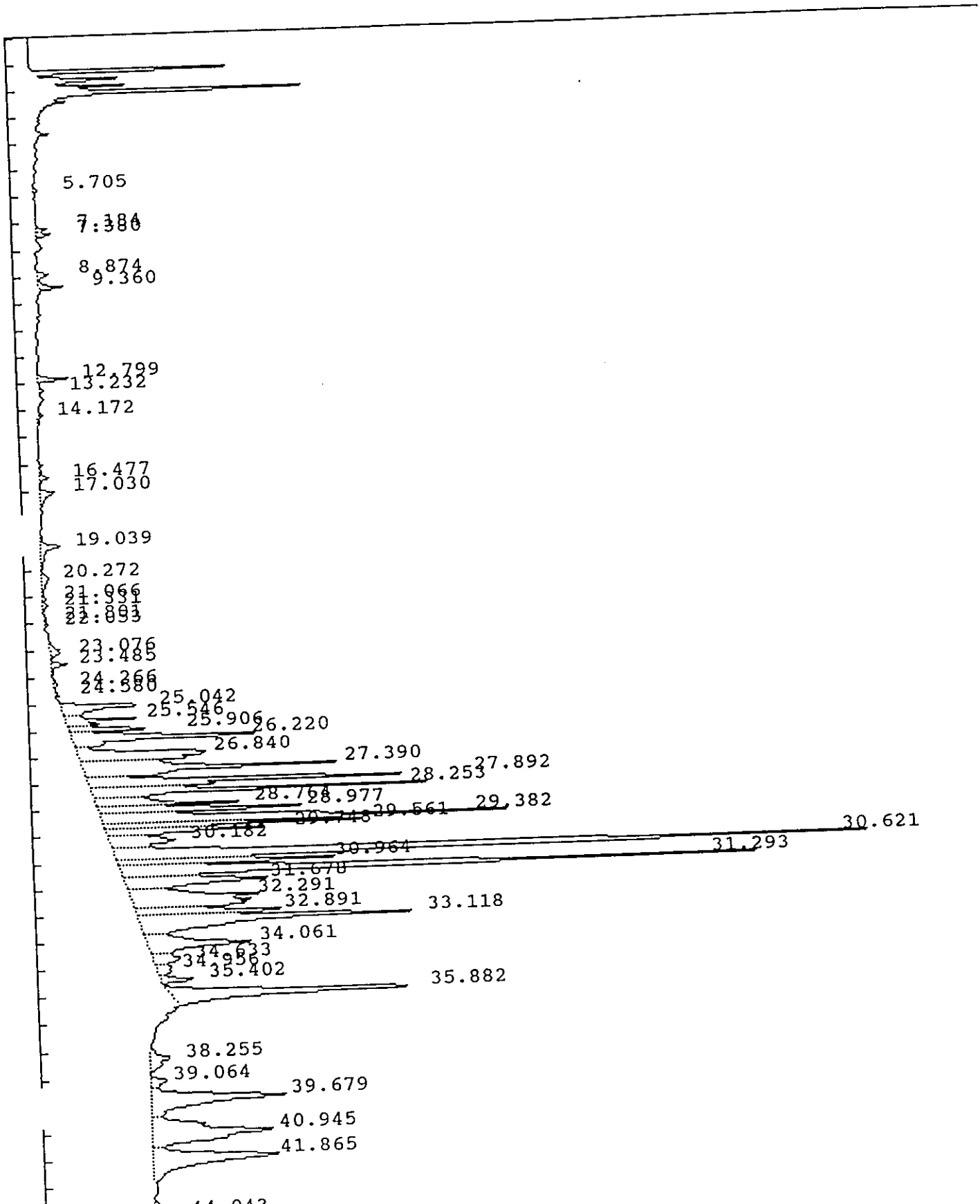
IEA Pesticide Standard Report

Sample Name : 006035 CS-64 DF=10 Inj on 1347 20Feb1993 INSTRUMENT: HP58901A
Result File :/DATA/LOOP/RESULT/A1209416.RES Inj. Vol. : 1 ul
Column Type : RTX-35 30-Meter,0.53mm ID



IEA Pesticide Standard Report

Sample Name : 006035 CS-64 DF=10 Inj on 1347 20Feb1993
Result File :/DATA/LOOP/RESULT/A1209416.RES INSTRUMENT: HP58901A
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Report No :525.10

Sample Name : 006035 CS-64 DF=10
Result File : /DATA/LOOP/RESULT/A1209416.RES
Column Type : RTX-35 30 Meter,0.53mm ID
Instrument : HP58901A
Calculation : ExternalSTD
Run Time : 46.25 Mins. Injected on 1347 20Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/A1209.SEQ
Subseq/Sample : 5/ 20 Bottle no. : 20

Inj. Vol. : 1 ul

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	5.70		.172198	20115	BB	0.0000	
2	7.18		.096769	36931	BV	0.0000	
3	7.38		.114021	53886	VB	0.0000	
4	8.87		.162754	61717	BV	0.0000	
5	9.36		.126072	104388	VV	0.0000	
6	12.80	12.77	.120079	126458	BV	1.3321	Tetrachloro-m-xylene
7	13.23		.121864	19278	PB	0.0000	
8	14.17		.213754	28596	PB	0.0000	
9	16.48		.176020	54403	VV	0.0000	
10	17.03		.260827	119012	PV	0.0000	
11	19.04		.309266	199802	BV	0.0000	
12	20.27		.512124	118096	PV	0.0000	
13	21.07		.162770	22434	VV	0.0000	
14	21.33		.174190	26418	VV	0.0000	
15	21.80	21.78	.136844	14196	PV	.1686	~~delta-BHC~~
16	22.05		.158705	16771	VV	0.0000	
17	23.08		.286117	93469	BV	0.0000	
18	23.49		.173437	87973	VV	0.0000	
19	24.27		.200145	27637	PV	0.0000	
20	24.58		.107969	11915	VB	0.0000	
21	25.04	25.07	.212329	583571	BV	6.3972	~~Heptachlor epoxide~~
22	25.55		.152637	392981	VV	0.0000	
23	25.91		.100330	315881	VV	0.0000	
24	26.22	26.22	.193199	1288023	VV	12.2800	~~alpha-Chlordane~~
25	26.84		.351904	1403595	VV	0.0000	
26	27.39		.253049	1981679	VV	0.0000	
27	27.89		.163462	1986878	VV	0.0000	
28	28.25		.131621	1593909	VV	0.0000	
29	28.76		.159920	797775	VV	0.0000	
30	28.98		.170073	1112183	VV	0.0000	
31	29.38	29.32	.168791	2480162	VV	38.4164	~~4,4'-DDT~~
32	29.56	29.50	.106176	935140	VV	15.8197	~~Endrin aldehyde~~
33	29.75		.158465	892299	VV	0.0000	
34	30.18		.308454	683347	VV	0.0000	
35	30.62	AK1260	.201445	4702947	VV	0.0000	
36	30.96		.148151	1048398	VV	0.0000	
37	31.29		.170725	3635979	VV	0.0000	
38	31.68		.297289	1330797	VV	0.0000	

293/11

IEA Pesticide Standard Report

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
39	32.29		.494551	2058625	VV	0.0000	
40	32.89		.167202	811765	VV	0.0000	
41	33.12		.263148	2425731	VV	0.0000	
42	34.06		.338306	1100967	VV	0.0000	
43	34.63		.283113	238691	VV	0.0000	
44	34.96		.313649	151257	VV	0.0000	
45	35.40		.161443	179298	VV	0.0000	
46	35.88		.241570	1950360	PB	0.0000	
47	38.25		.384590	238811	PV	0.0000	
48	39.06		.282315	142678	PV	0.0000	
49	39.68		.365688	1517525	VV	0.0000	
50	40.95		.505674	1904241	VV	0.0000	
51	41.86		.437180	1695273	VV	0.0000	
52	44.04		.419556	272701	PV	0.0000	
53	44.84		.223902	34162	PV	0.0000	
54	45.24		.398250	176158	VV	0.0000	
55	45.95		.224755	18215	VB	0.0000	

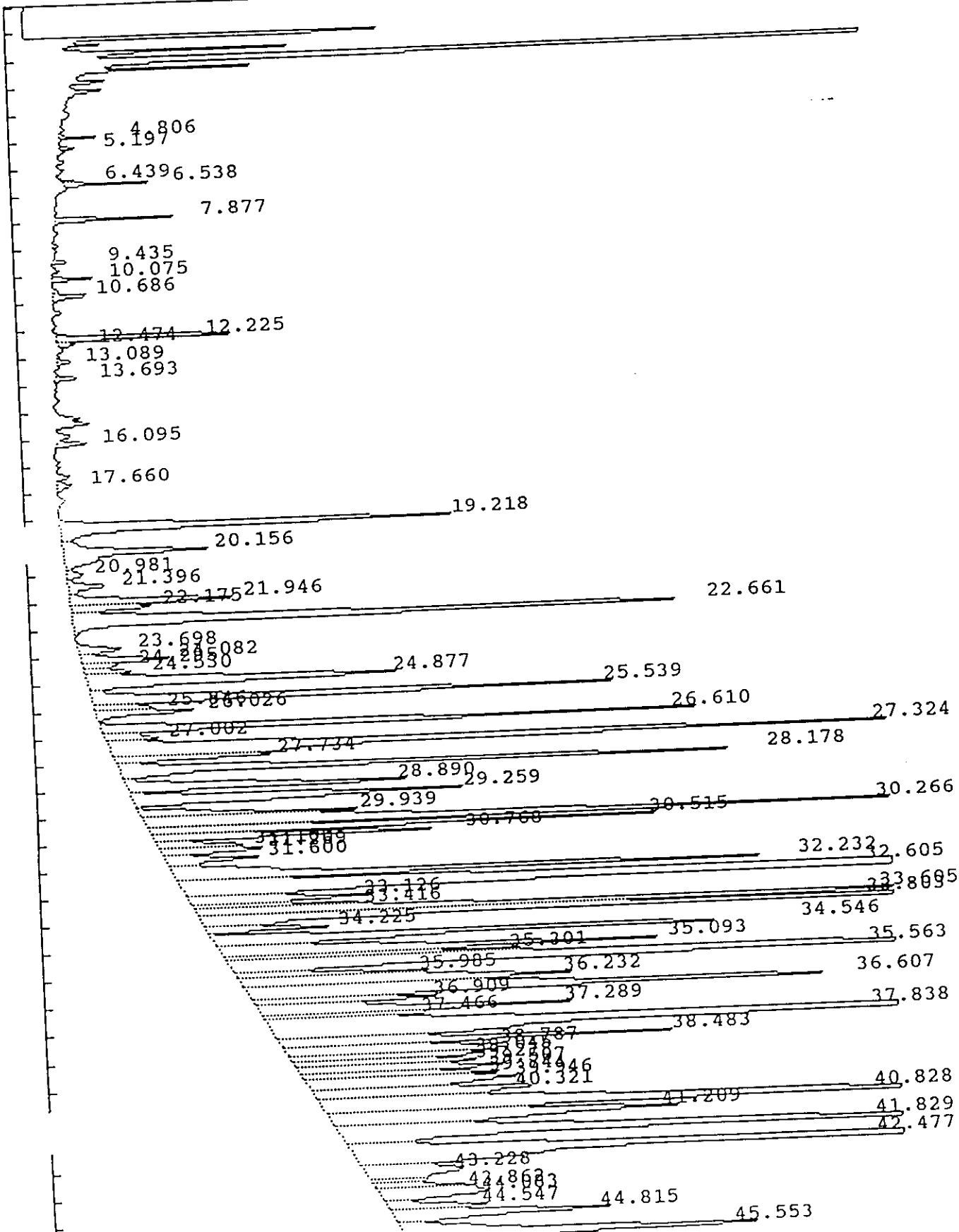
Total Area : 43325496 Total PPB : 74.414

Report Time : 1440 23Feb1993
Method : /DATA/LOOP/METHOD/A1209_416.MT
Result File : /DATA/LOOP/RESULT/A1209416.RES

IEA Pesticide Standard Report

Sample Name : 0060035 CS-64 DF=10
Result File :/DATA/LOOP/RESULT/B5041178.RES
Column Type : DB-1701 30-Meter,0.53mm ID

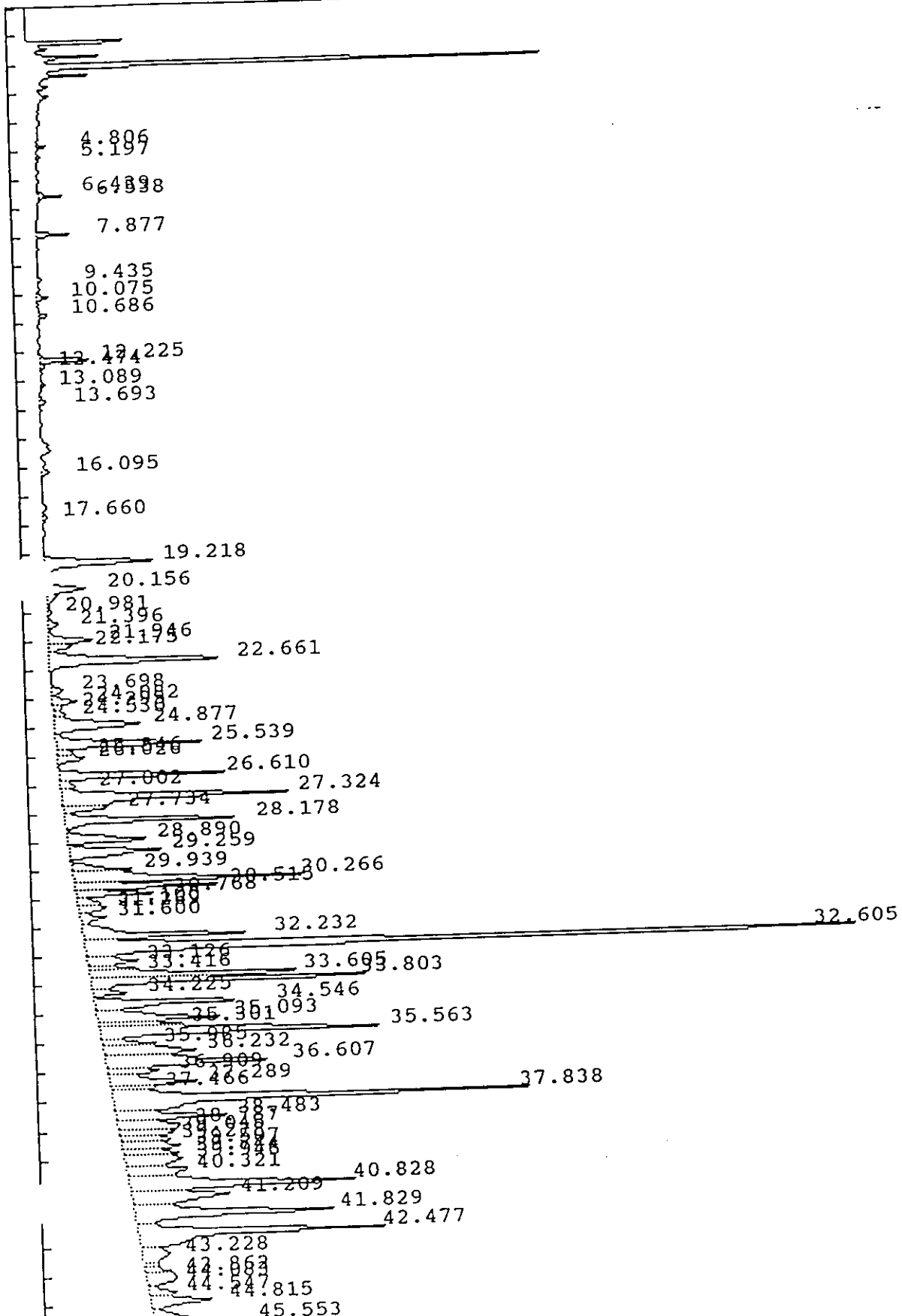
Inj on 1242 27Feb1993
INSTRUMENT: HP58905B
Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060035 CS-64 DF=10
esult File :/DATA/LOOP/RESULT/B5041178.RES
Column Type : DB-1701 30-Meter,0.53mm ID

Inj on 1242 27Feb1993
INSTRUMENT: HP58905B
Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Report No :134.00

imple Name : 0060035 CS-64 DF=10
Result File : /DATA/LOOP/RESULT/B5041178.RES
Column Type : DB-1701 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP58905B
Calculation : ExternalSTD
Run Time : 46.50 Mins. Injected on 1242 27Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/B5041.SEQ
Subseq/Sample : 2/ 79 Bottle no. : 79

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.81		.052820	10235	BV	0.0000	
2	5.20		.071645	5585	BV	0.0000	
3	6.44		.069440	5396	BV	0.0000	
4	6.54		.070074	28489	VV	0.0000	
5	7.88	7.87	.091071	47703	BB	1.0858	Tetrachloro-m-xylene
6	9.44		.083397	6608	BB	0.0000	
7	10.08		.092838	17078	BB	0.0000	
8	10.69		.135384	21705	VB	0.0000	
9	12.22		.106913	96021	BV	0.0000	
10	12.47		.121175	8399	VV	0.0000	
11	13.09		.128623	8019	BV	0.0000	
12	13.69		.113211	11419	BB	0.0000	
13	16.09		.137825	15750	PV	0.0000	
14	17.66		.205515	13462	VV	0.0000	
15	19.22		.220305	341145	BV	0.0000	
16	20.16		.302075	168763	VV	0.0000	
17	20.98		.210010	14208	VV	0.0000	
18	21.40		.230999	33823	VV	0.0000	
19	21.95		.195982	124247	VV	0.0000	
20	22.17		.170098	54651	VV	0.0000	
21	22.66		.217215	544452	VV	0.0000	
22	23.70	23.67	.225268	37293	PV	1.0317	~~gamma-Chlordane~~
23	24.08	24.12	.197082	67312	VV	1.7430	~~alpha-Chlordane~~
24	24.30		.142955	19543	VV	0.0000	
25	24.53		.177158	32752	VV	0.0000	
26	24.88		.269331	323133	VV	0.0000	
27	25.54		.185534	386516	VV	0.0000	
28	25.85		.136566	31261	VV	0.0000	
29	26.03		.183561	72518	VV	0.0000	
30	26.61		.156658	375293	PV	0.0000	
31	27.00		.206430	43176	VV	0.0000	
32	27.32	27.29	.217281	714949	VV	27.2173	~~Endrin~~
33	27.73		.161829	98504	VV	0.0000	
34	28.18		.165339	430004	VV	0.0000	
35	28.89		.197032	237571	VV	0.0000	
36	29.26		.231709	305286	VV	0.0000	
37	29.94		.175181	153139	PV	0.0000	
38	30.27		.180369	596302	VV	0.0000	

IEA Pesticide Standard Report

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
39	30.52		.145638	302124	VV	0.0000	
40	30.77		.143119	173883	VV	0.0000	
41	31.10		.180347	58501	VV	0.0000	
42	31.27	31.30	.207740	82404	VV	3.9998	~~4,4'-DDT~~
43	31.60		.187492	71430	VV	0.0000	
44	32.23		.176073	446926	VV	0.0000	
45	32.61		.170848	2056011	VV	0.0000	
46	33.13	Arr 1260	.200243	147247	VV	0.0000	
47	33.42		.128046	94775	VV	0.0000	
48	33.61		.140444	460985	VV	0.0000	
49	33.80		.140134	627138	VV	0.0000	
50	34.22		.138954	71743	VV	0.0000	
51	34.55		.171236	404921	PV	0.0000	
52	35.09		.206694	374513	VV	0.0000	
53	35.30		.117714	138729	VV	0.0000	
54	35.56		.210476	867868	VV	0.0000	
55	35.98		.155137	117482	VV	0.0000	
56	36.23		.244467	319109	VV	0.0000	
57	36.61		.256007	623101	VV	0.0000	
58	36.91		.199529	145070	VV	0.0000	
59	37.29		.203220	258478	VV	0.0000	
60	37.47		.138252	92418	VV	0.0000	
61	37.84		.220218	1356074	VV	0.0000	
62	38.48		.177424	287748	VV	0.0000	
63	38.79		.301510	265187	VV	0.0000	
64	39.04		.165732	127340	VV	0.0000	
65	39.28		.201607	144117	VV	0.0000	
66	39.51		.199594	163610	VV	0.0000	
67	39.74		.170851	133074	VV	0.0000	
68	39.95		.296405	244893	VV	0.0000	
69	40.32		.272968	250386	VV	0.0000	
70	40.83		.257309	832324	VV	0.0000	
71	41.21		.325595	450164	VV	0.0000	
72	41.83		.262187	745411	VV	0.0000	
73	42.48		.256176	905705	VV	0.0000	
74	43.23		.397056	153237	VV	0.0000	
75	43.86		.171386	66480	VV	0.0000	
76	44.08		.341039	144449	VV	0.0000	
77	44.55		.196750	79143	VV	0.0000	
78	44.81		.253503	222161	VV	0.0000	
79	45.55		.284938	401705	VV	0.0000	
80	46.26		.171293	23892	PV	0.0000	

Total Area : 20433660 Total PPB : 35.078

Report Time : 1330 27Feb1993
Method : /DATA/LOOP/METHOD/B5041.MTH
Result File : /DATA/LOOP/RESULT/B5041178.RES

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS64DL 108

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060035DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: B5041177.D

% Moisture: 18 decanted: (Y/N) N Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 02/03/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/27/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

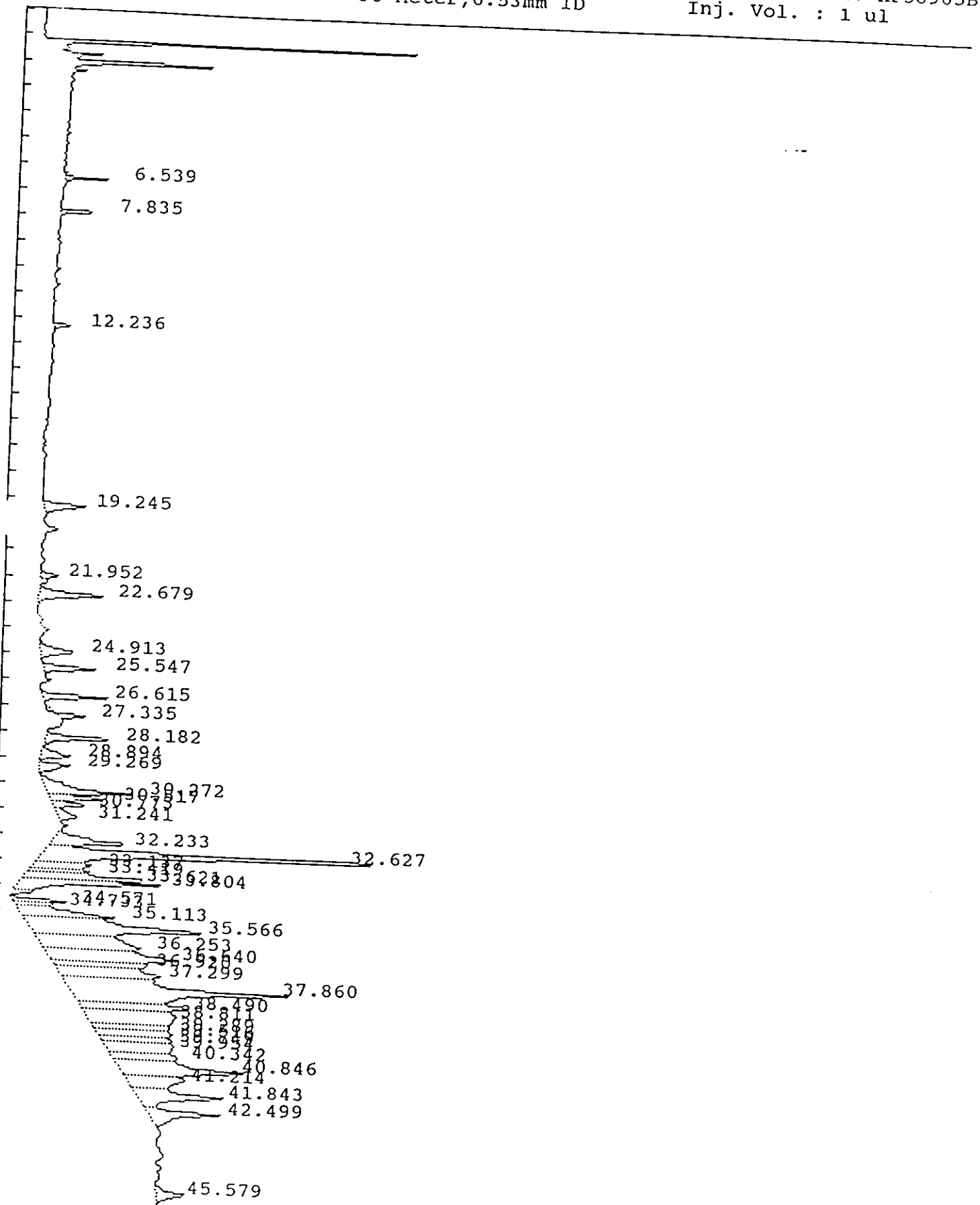
GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	4000	U
11104-28-2	Aroclor-1221	8200	U
11141-16-5	Aroclor-1232	4000	U
53469-21-9	Aroclor-1242	4000	U
12672-29-6	Aroclor-1248	4000	U
11097-69-1	Aroclor-1254	4000	U
11096-82-5	Aroclor-1260	4000	U
		2500	C JBD

DEA Pesticide Standard Report

Sample Name : 0060035 CS-64 DF=100
Result File :/DATA/LOOP/RESULT/B5041177.RES
Column Type : DB-1701 30-Meter,0.53mm ID

Inj on 1149 27Feb1993
INSTRUMENT: HP58905B
Inj. Vol. : 1 ul



IEA Pesticide Standard Report

mple Name : 0060035 CS-64 DF=100
Result File : /DATA/LOOP/RESULT/B5041177.RES Report No :133.00
Column Type : DB-1701 30 Meter,0.53mm ID
Instrument : HP58905B Inj. Vol. : 1 ul
Calculation : ExternalSTD
Run Time : 46.52 Mins. Injected on 1149 27Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/B5041.SEQ
Subseq/Sample : 2/ 78 Bottle no. : 78

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.54		.068210	14734	BB	0.0000	
2	7.83	7.87	.091697	16727	BB	.3807	~~Tetrachloro-m-xylene~~
3	12.24		.109015	8925	BB	0.0000	
4	19.24		.218198	37507	BB	0.0000	
5	21.95		.181836	12514	BV	0.0000	
6	22.68		.224747	59974	VB	0.0000	
7	24.91		.276096	37093	BV	0.0000	
8	25.55		.168228	36723	PV	0.0000	
9	26.61		.143368	39277	BB	0.0000	
10	27.34	27.29	.134161	16173	BV	.6157	~~Endrin~~
11	28.18		.159318	46582	BV	0.0000	
12	28.89		.196179	26285	VV	0.0000	
13	29.27		.231169	29846	PV	0.0000	
14	30.27		.232464	85826	PV	0.0000	
15	30.52		.152281	36587	VV	0.0000	
16	30.77		.154034	22362	VV	0.0000	
17	31.24	31.30	.291402	22891	VV	1.1111	~~4,4'-DDT~~
18	32.23		.228710	73978	BV	0.0000	
19	32.63		.215456	329224	VV	0.0000	
20	33.14	AR1260	.246351	56262	VV	0.0000	
21	33.42		.167677	42174	VV	0.0000	
22	33.62		.168323	89910	VV	0.0000	
23	33.80		.190028	113410	VV	0.0000	
24	34.57		.141892	32909	PV	0.0000	
25	34.73	34.76	.127248	19730	VV	1.4570	~~Methoxychlor~~
26	35.11		.282420	107977	VV	0.0000	
27	35.57		.401983	291561	VV	0.0000	
28	36.25		.446619	181673	VV	0.0000	
29	36.64		.383355	203005	VV	0.0000	
30	36.92		.225799	86950	VV	0.0000	
31	37.30		.312940	130554	VV	0.0000	
32	37.86		.473549	443614	VV	0.0000	
33	38.49		.251009	114059	VV	0.0000	
34	38.81		.509936	188364	VV	0.0000	
35	39.29		.220654	68303	VV	0.0000	
36	39.52		.225456	69984	VV	0.0000	
37	39.75		.195778	57440	VV	0.0000	
38	39.95		.345738	97037	VV	0.0000	

IEA Pesticide Standard Report

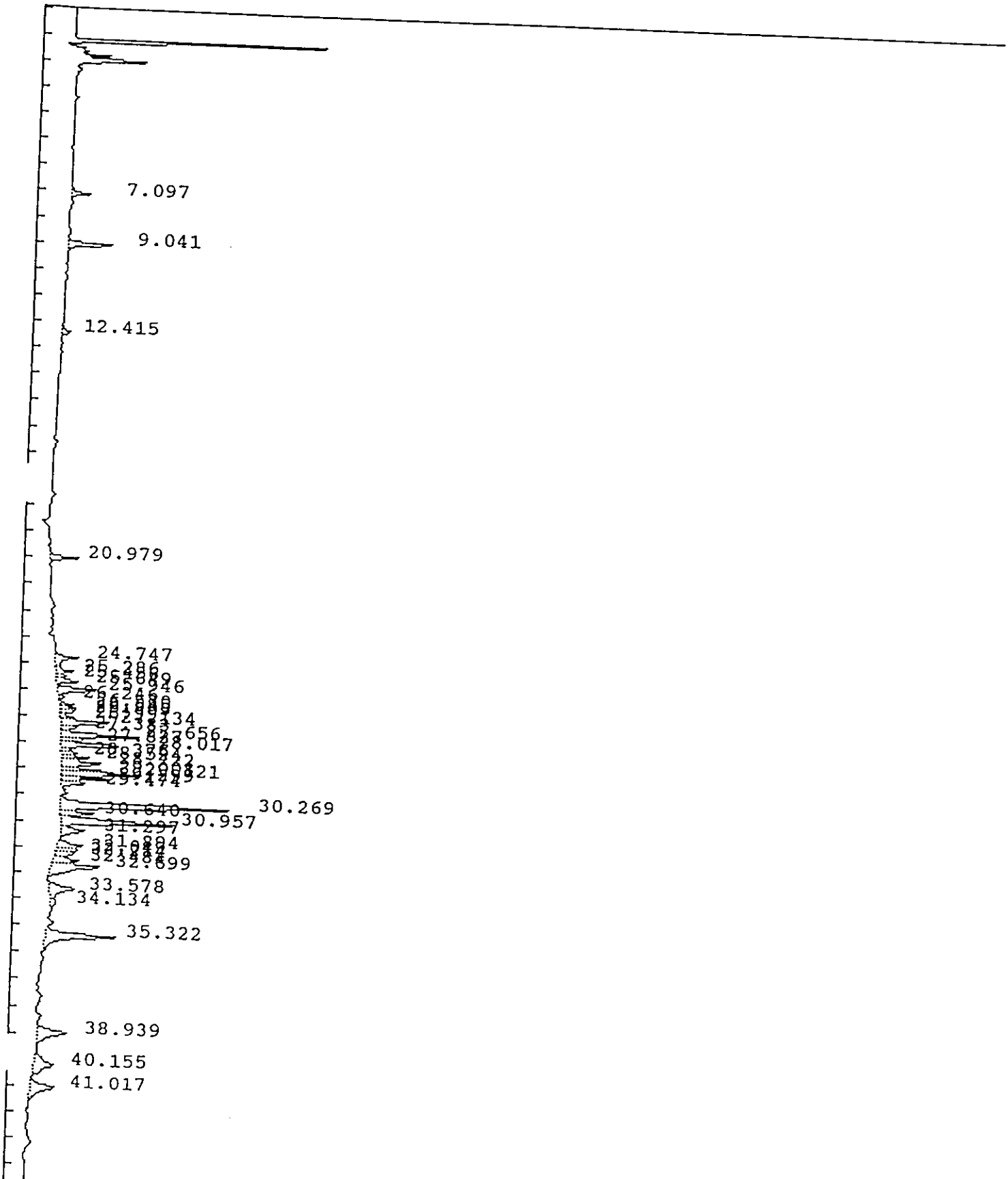
Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
39	40.34		.302154	81848	VV	0.0000	
40	40.85		.368263	191477	VV	0.0000	
41	41.21		.369201	89853	VV	0.0000	
42	41.84		.342580	122914	VV	0.0000	
43	42.50		.275669	83184	VV	0.0000	
44	45.58		.276230	32752	PV	0.0000	

Total Area : 3950172 Total PPB : 3.565

Report Time : 1239 27Feb1993
Method : /DATA/LOOP/METHOD/B5041.MTH
Result File : /DATA/LOOP/RESULT/B5041177.RES

IEA Pesticide Standard Report

Sample Name : 0060035 CS-64 DF=100 Inj on 0053 05Mar1993
Result File :/HP58901A/A1211118.RES
Column Type : RTX-35 30-Meter,0.53mm ID INSTRUMENT: HP58901A
Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060035 CS-64 DF=100
Result File : /HP58901A/A1211118.RES
Column Type : RTX-35 30 Meter,0.53mm ID
Instrument : HP58901A
Calculation : ExternalSTD
Run Time : 46.25 Mins. Injected on 0053 05Mar1993
Sequence File : /DATA/LOOP/SEQUENCE/A1211.SEQ
Subseq/Sample : 2/ 19 Bottle no. : 19

Report No :141.10
Inj. Vol. : 1 ul

% Dil-Fact
3333.00

Run Status : RunStatusOK
EndOffBaseline
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	7.10		.106176	45403	VB	0.0000	
2	9.04		.123481	129069	BB	0.0000	
3	12.42	12.46	.126794	23089	BB	.1799	~~Tetrachloro-m-xylene~~
4	20.98		.116847	71486	BB	0.0000	
5	24.75		.159609	89234	BV	0.0000	
6	25.29		.103763	45136	VV	0.0000	
7	25.46	25.50	.108117	23389	VV	.2068	~~gamma-Chlordane~~
8	25.65		.113460	62288	VB	0.0000	
9	25.95	26.00	.141960	132980	BV	1.1150	~~alpha-Chlordane~~
10	26.25		.107383	16872	VV	0.0000	
11	26.53		.101335	33265	VV	0.0000	
12	26.68	26.72	.104205	43715	VV	.4021	~~4,4'-DDE~~
13	26.80		.076024	23041	VB	0.0000	
14	27.00	26.95	.093800	26419	BV	.2572	~~Dieldrin~~
15	27.13		.144304	163658	VV	0.0000	
16	27.38		.122063	41564	VV	0.0000	
17	27.66		.120942	213609	VV	0.0000	
18	27.83		.105779	53948	VV	0.0000	
19	28.02		.104367	183169	VV	0.0000	
20	28.38	28.43	.116425	40281	VV	.4573	~~Endosulfan II~~
21	28.52		.096634	66193	VV	0.0000	
22	28.72		.155987	140640	VV	0.0000	
23	29.01		.108986	119187	VV	0.0000	
24	29.12	29.11	.089285	172417	VV	2.4225	~~4,4'-DDT~~
25	29.30	29.27	.098089	108881	VV	1.4948	~~Endrin aldehyde~~
26	29.47		.114242	70088	VB	0.0000	
27	30.27		.161595	610947	BV	0.0000	
28	30.64		.123138	91872	VV	0.0000	
29	30.96		.157500	377925	VV	0.0000	
30	31.30		.200419	104478	VB	0.0000	
31	31.89		.144124	78359	BV	0.0000	
32	32.05		.134670	61124	VV	0.0000	
33	32.21		.149164	56296	VV	0.0000	
34	32.48		.153047	84803	VV	0.0000	
35	32.70		.221403	244789	VB	0.0000	
36	33.58		.288945	155859	BV	0.0000	
37	34.13		.210420	24154	VB	0.0000	
38	35.32		.218801	312036	PV	0.0000	

Am26

Aroclor

IEA Pesticide Standard Report

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
39	38.94		.277634	164105	BB	0.0000	
40	40.16		.375793	149645	BV	0.0000	
41	41.02		.323125	154685	PV	0.0000	
42	45.60		.406370	94747	VB	0.0000	

Total Area : 4904846 Total PPB : 6.536

Report Time : 2346 10Mar1993
Method : /DATA/LOOP/METHOD/A1211_118.MT
Result File : /HP58901A/A1211118.RES

QUANT REPORT

Operator ID: MSC
Output File: ^C6095::QT
Data File: >C6095::C1
Name: 0060;;;CS 64
Misc: 0060035 HP5970C;;;;1;;;C0968

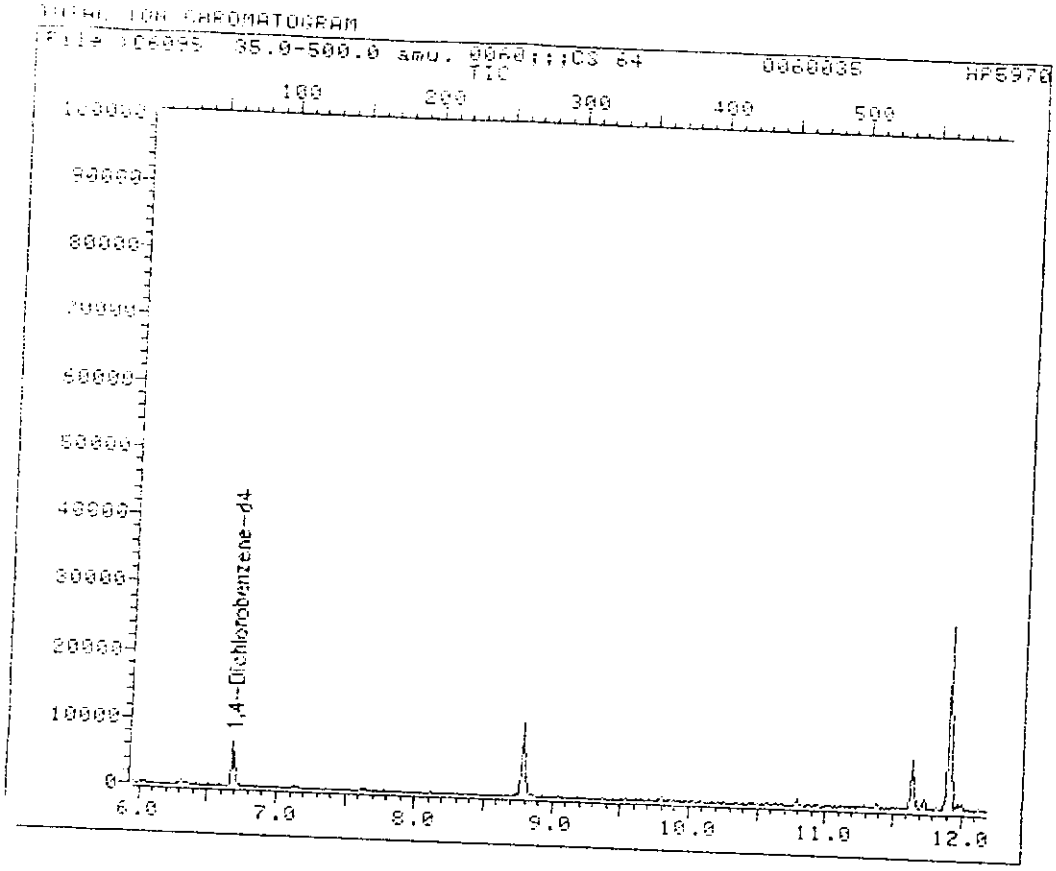
Quant Rev: 6 Quant Time: 930311 17:04
Injected at: 930311 16:31
Dilution Factor: 1.00000

BTL# 6

ID File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*1,4-Dichlorobenzene-d4	6.68	150.0	3140	40.00	UG	91
3)	*Acenaphthene-d10	19.76	163.9	65	40.00	UG	62
4)	*Phenanthrene-d10	23.31	187.9	73	40.00	UG	100
23)	*Chrysene-d12	19.53	240.0	40051	40.00	UG	94
✓24)	Arochlor 1260 (1)	17.83	360.0	135	3.92	UG	77
✓25)	Arochlor 1260 (2)	18.59	360.0	184	5.53	UG	78
✓26)	Arochlor 1260 (3)	19.68	324.0	147	5.83	UG	88

* Compound is ISTD

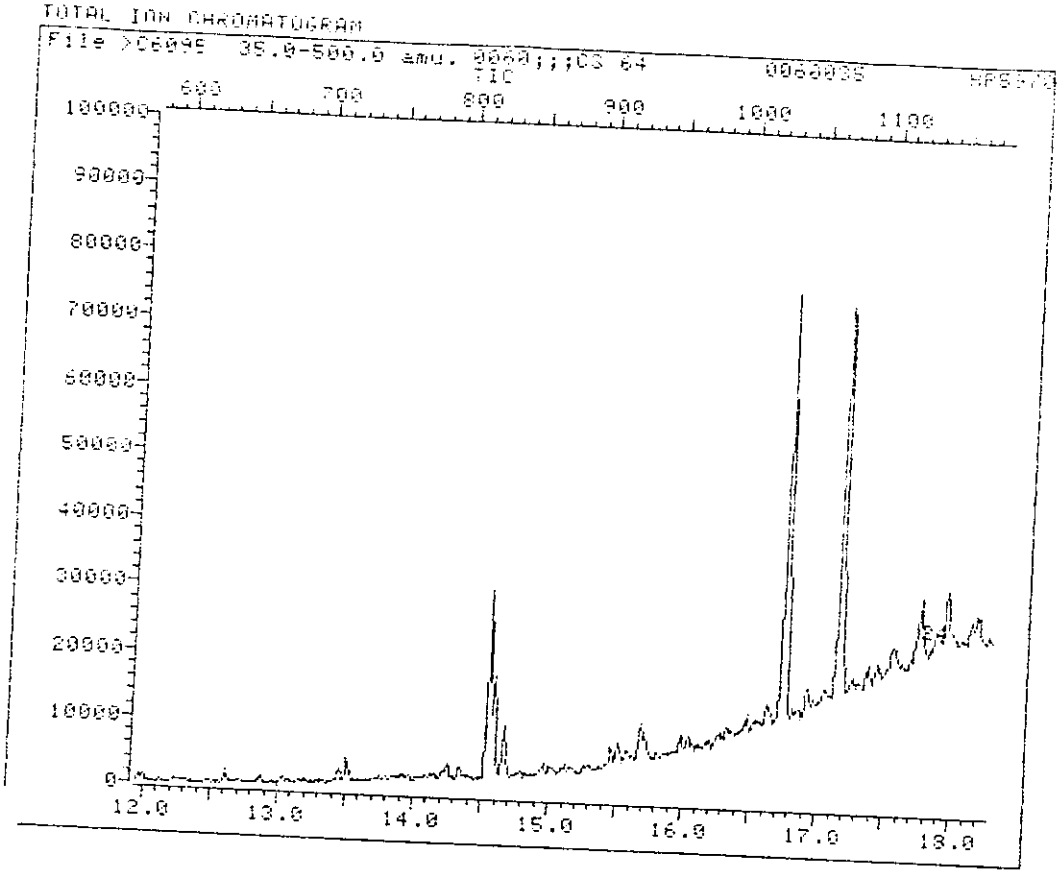


Data File: >C6095::C1 Quant Output File: ^C6095::QT
Name: 0060;;;CS 64
Misc: 0060035 HP5970C;;;;1;;;C0968 BTL# 6

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

Operator ID: MSC
Quant Time: 930311 17:04
Injected at: 930311 16:31

TIC page 1 of 4



Data File: >C6095::C1
Name: 0060;;;CS 64
Misc: 0060035

Quant Output File: ^C6095::QT

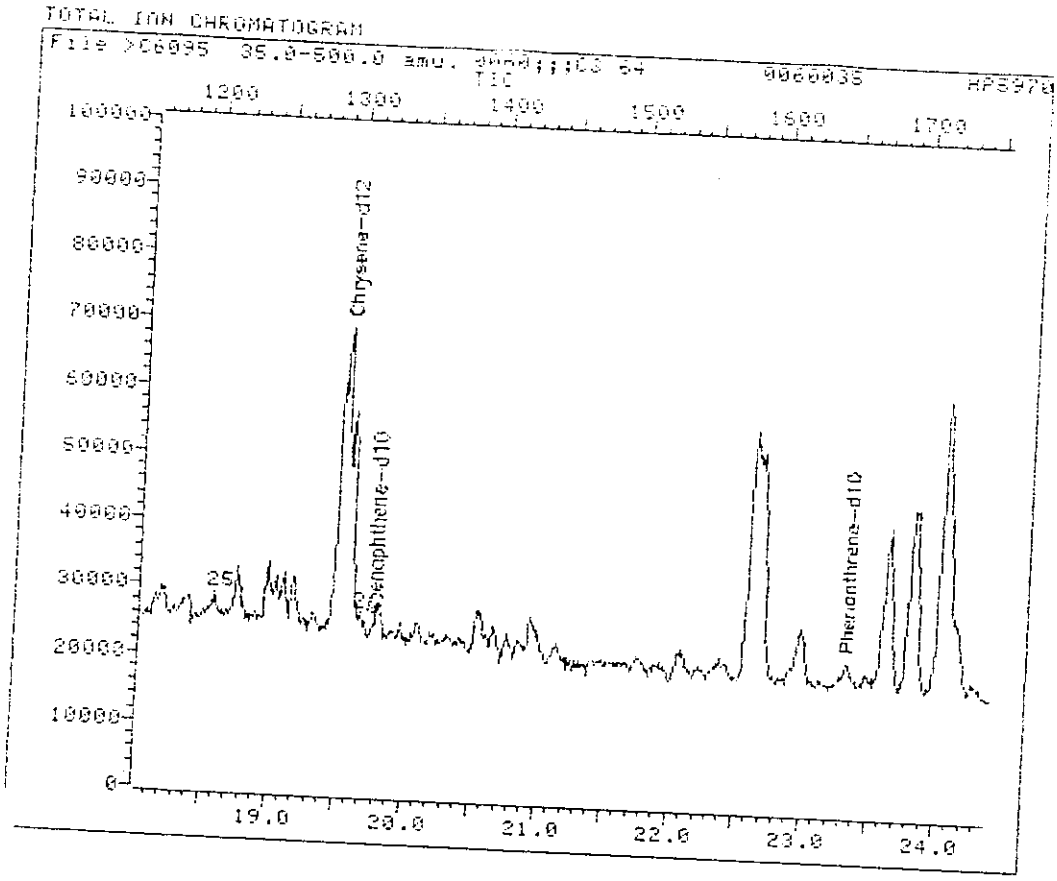
HP5970C;;;;1;;;C0968

BTL# 6

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

Operator ID: MSC
Quant Time: 930311 17:04
Injected at: 930311 16:31

TIC page 2 of 4



Data File: >C6095::C1
Name: 0060;;;CS 64
Misc: 0060035

Quant Output File: ^C6095::QT

HP5970C;;;;1;;;C0968

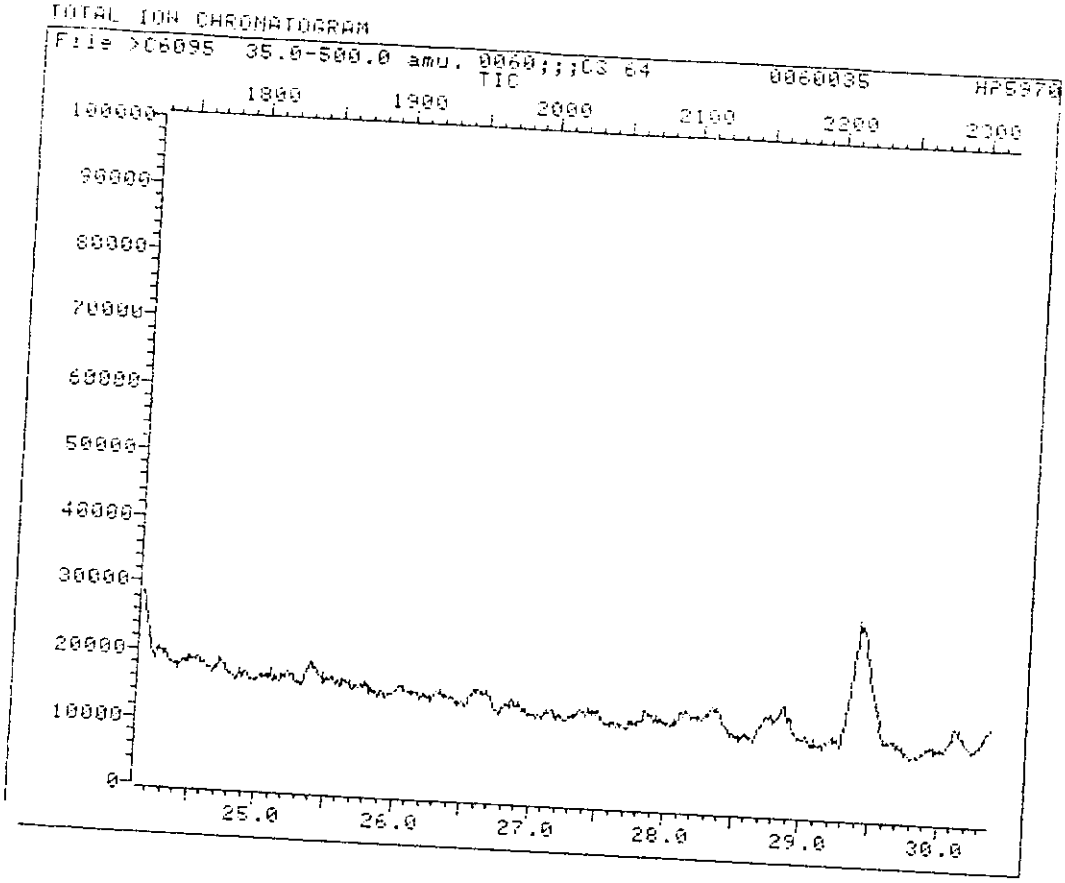
BTL# 6

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

Operator ID: MSC
Quant Time: 930311 17:04
Injected at: 930311 16:31

TIC page 3 of 4

TOTAL ION CHROMATOGRAM



Data File: >C6095::C1
Name: 0060;;;CS 64
Misc: 0060035

Quant Output File: ^C6095::QT

HP5970C;;;;1;;;C0968

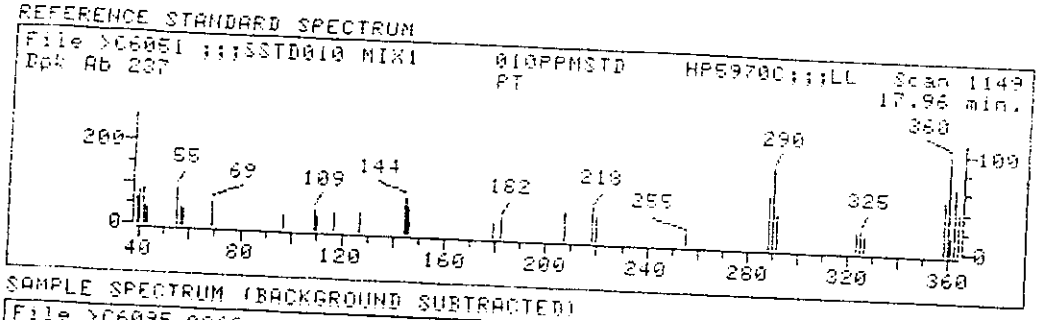
BTL# 6

Id File: I_PCBC::N1
Title: PCB ID file - instrument MSC
Last Calibration: 930310 11:54

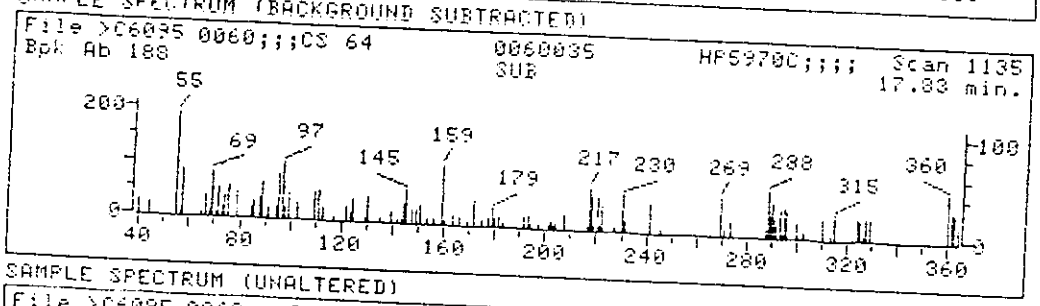
Operator ID: MSC
Quant Time: 930311 17:04
Injected at: 930311 16:31

TIC page 4 of 4

REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



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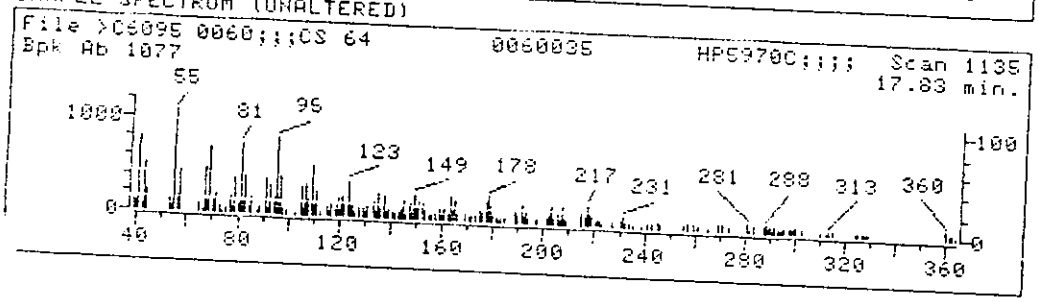
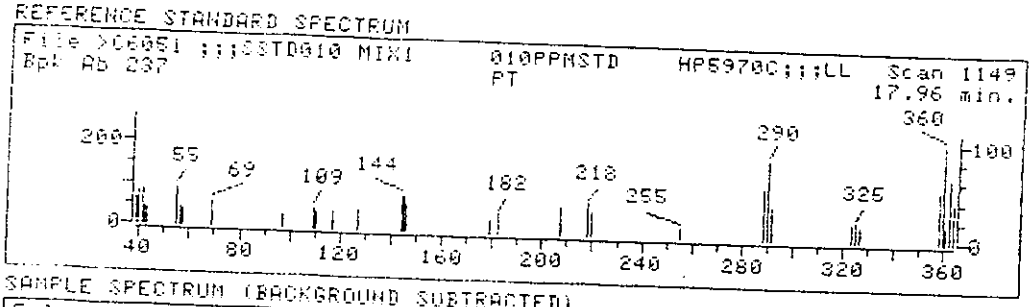


Data File: >C6095::C1
Name: 0060;;;CS 64
Misc: 0060035 HP5970C;;;;1;;;C0968
Quant Time: 930311 17:04
Injected at: 930311 16:31

Quant Output File: ^C6095::QT
BTL# 6
Quant ID File: I_PCBC::N1
Last Calibration: 930310 11:54

Compound No: 24
Compound Name: Arochlor 1260 (1)
Scan Number: 1135
Retention Time: 17.83 min.
Quant Ion: 360.0
Area: 135
Concentration: 3.92 UG
q-value: 77

REFERENCE STANDARD SPECTRUM



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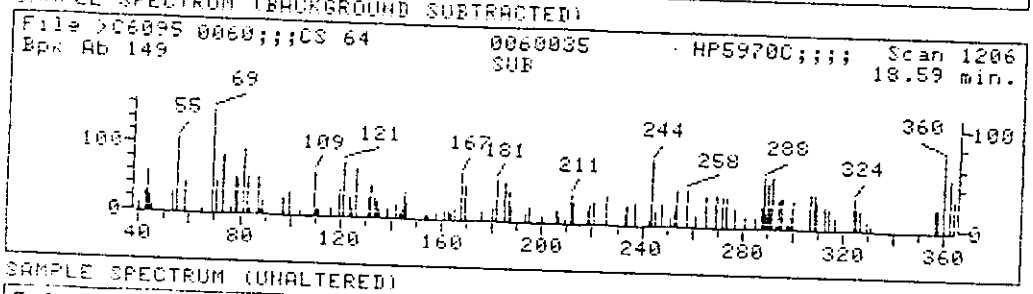

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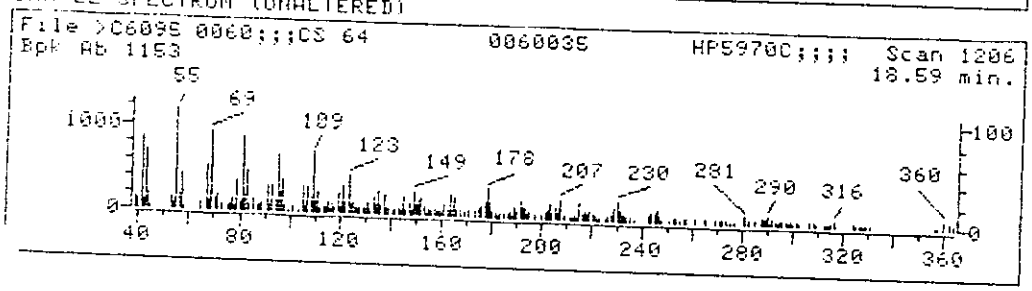
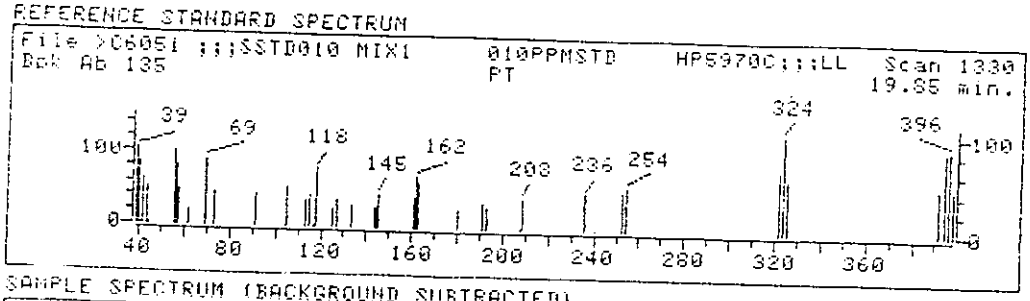


Data File: >C6095::C1
Name: 0060;;;CS 64
Misc: 0060035 HP5970C;;;;1;;;C0968
Quant Time: 930311 17:04
Injected at: 930311 16:31

Quant Output File: ^C6095::QT
BTL# 6
Quant ID File: I_PCBC::N1
Last Calibration: 930310 11:54

Compound No: 25
Compound Name: Arochlor 1260 (2)
Scan Number: 1206
Retention Time: 18.59 min.
Quant Ion: 360.0
Area: 184
Concentration: 5.53 UG
q-value: 78

REFERENCE STANDARD SPECTRUM



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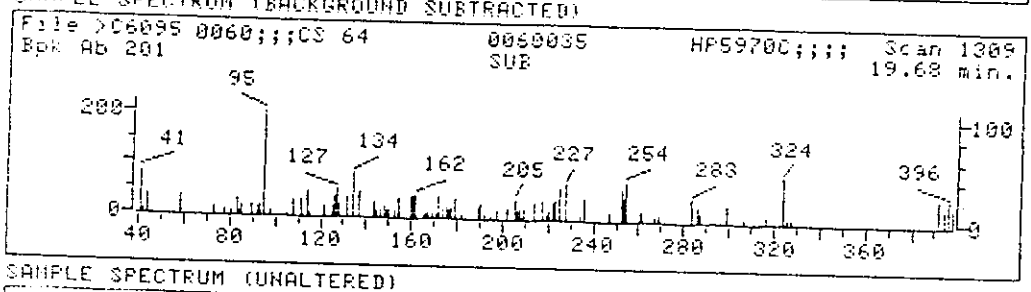
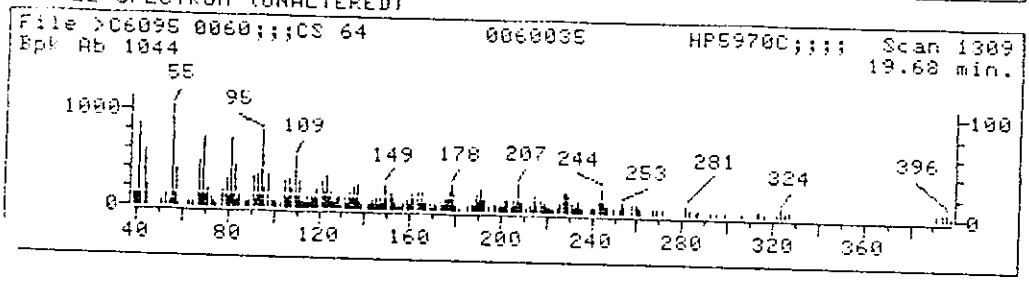


SAMPLE SPECTRUM (UNALTERED)



Data File: >C6095::C1 Quant Output File: ^C6095::QT
Name: 0060;;;CS 64
Misc: 0060035 HP5970C;;;;1;;;C0968 BTL# 6
Quant Time: 930311 17:04 Quant ID File: I_PCBC::N1
Injected at: 930311 16:31 Last Calibration: 930310 11:54

Compound No: 26
Compound Name: Arochlor 1260 (3)
Scan Number: 1309
Retention Time: 19.68 min.
Quant Ion: 324.0
Area: 147
Concentration: 5.83 UG
q-value: 88

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB020193

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Matrix: (soil/water) WATER Lab Sample ID: 0060036

Sample wt/vol: 500 (g/mL) ML Lab File ID: B5037147.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 02/02/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:02/02/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

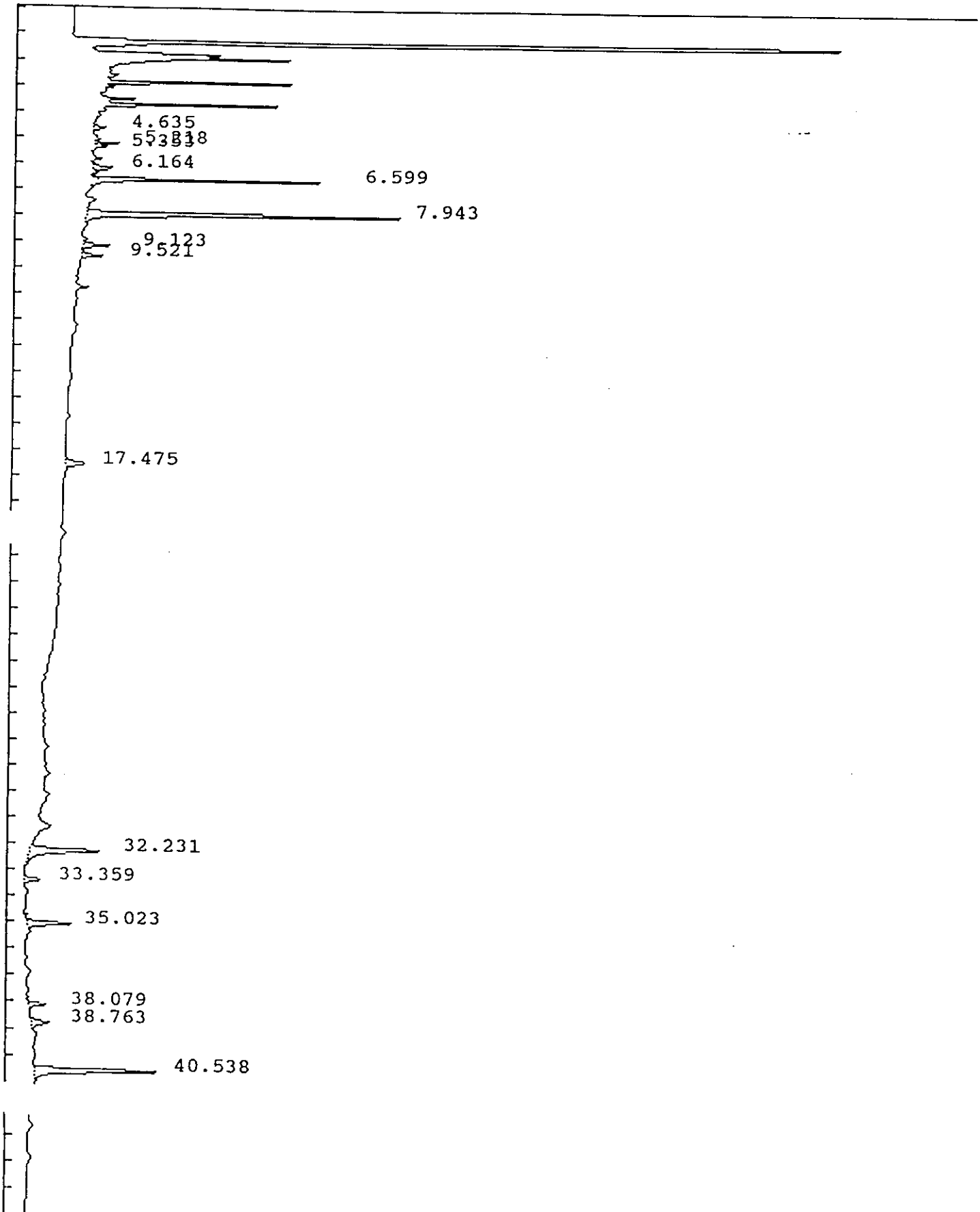
GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

IEA Pesticide Standard Report

Sample Name : 0060036 FIELD BLANK
Result File :/DATA/LOOP/RESULT/B5037147.RES
Column Type : DB-1701 30-Meter,0.53mm ID

Inj on 1216 11Feb1993
INSTRUMENT: HP58905B
Inj. Vol. : 1 ul



IEA Pesticide Standard Report

ımple Name : 0060036 FIELD BLANK Report No :245.00
Result File : /DATA/LOOP/RESULT/B5037147.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP58905B
Calculation : ExternalSTD
Run Time : 46.50 Mins. Injected on 1216 11Feb1993
Sequence File : /DATA/LOOP/SEQUENCE/B5037.SEQ
Subseq/Sample : 2/ 48 Bottle no. : 48

% Dil-Fact
100.00

Run Status : RunStatusOK

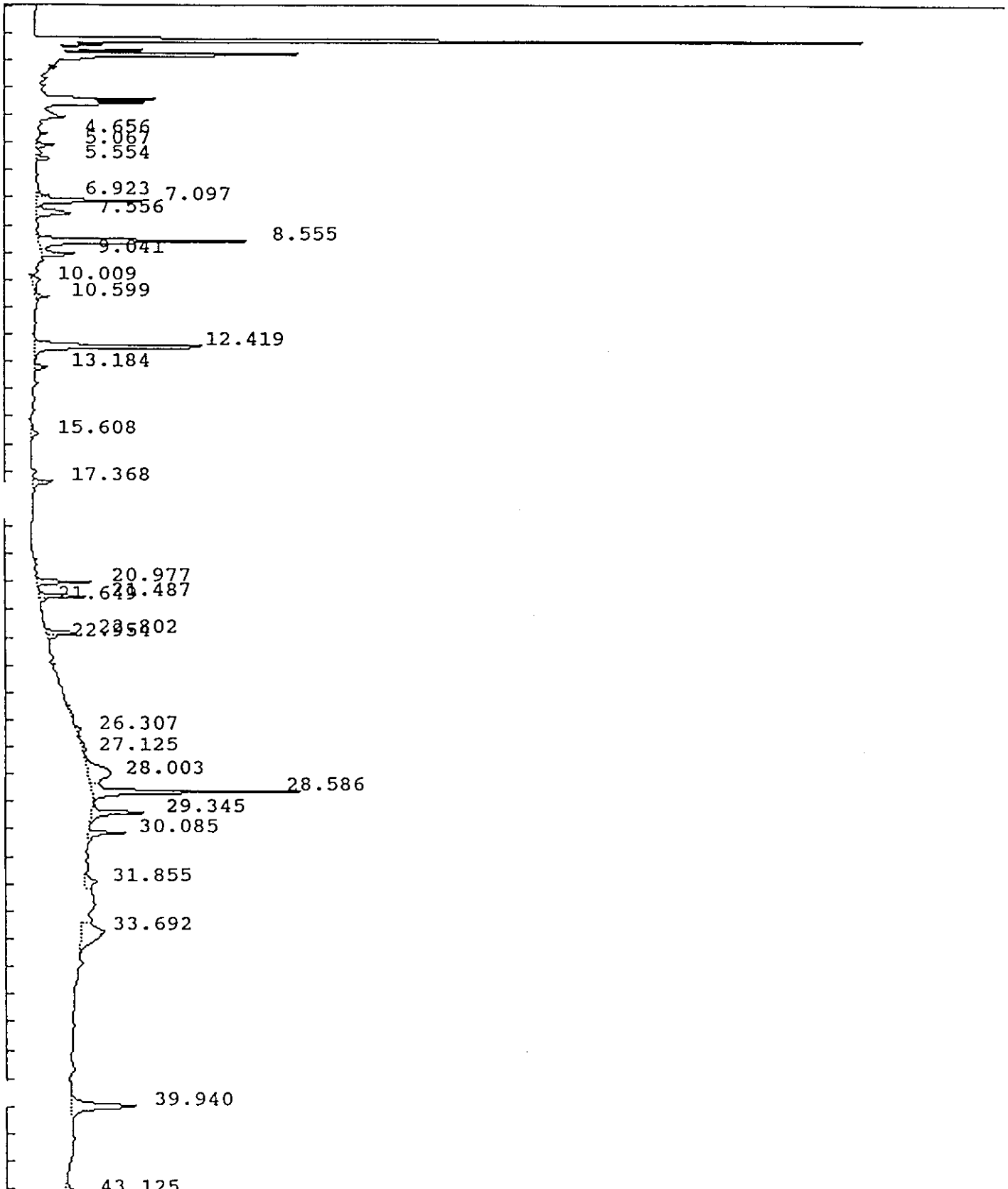
Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.64		.079019	6360	BB	0.0000	
2	5.22		.059434	8357	PV	0.0000	
3	5.35		.049173	3896	VV	0.0000	
4	6.16		.093756	10003	VV	0.0000	
5	6.60		.066268	82631	BV	0.0000	
6	7.94	7.94	.112790	168627	BV	.1522	Tetrachloro-m-xylene
7	9.12		.099694	12589	BB	0.0000	
8	9.52		.100507	10668	BB	0.0000	
9	17.48		.187899	15346	BB	0.0000	
10	32.23		.186700	59062	BB	0.0000	
11	33.36		.128529	10210	BB	0.0000	
12	35.02		.144804	29149	BV	0.0000	
13	38.08		.117965	9119	BB	0.0000	
14	38.76		.179645	14501	BV	0.0000	
15	40.54	#40.56	.154360	85874	BB	.0622	Decachlorobiphenyl

Total Area : 526394 Total PPB : .214

Report Time : 1304 11Feb1993
Method : /DATA/LOOP/METHOD/B5037.MTH
Result File : /DATA/LOOP/RESULT/B5037147.RES

IEA Pesticide Standard Report

Sample Name : 0060036 FB 2/1/93 Inj on 1731 04Mar1993
Result File :/HP58901A/A1211110.RES INSTRUMENT: HP58901A
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : 0060036 FB 2/1/93 Report No :133.10
Result File : /HP58901A/A1211110.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP58901A
Calculation : ExternalSTD
Run Time : 46.25 Mins. Injected on 1731 04Mar1993
Sequence File : /DATA/LOOP/SEQUENCE/A1211.SEQ
Subseq/Sample : 2/ 11 Bottle no. : 11

% Dil-Fact
100.00

Run Status : RunStatusOK
EndOffBaseline

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.66		.059465	11741	BV	0.0000	
2	5.07		.098791	43547	BV	0.0000	
3	5.55		.100116	37495	VB	0.0000	
4	6.92		.091108	23830	VV	0.0000	
5	7.10		.116201	247697	VV	0.0000	
6	7.56		.172082	120777	VB	0.0000	
7	8.55		.136903	572029	PV	0.0000	
8	9.04		.125574	95138	VV	0.0000	
9	10.01		.333393	49830	PV	0.0000	
10	10.60		.107392	28908	VV	0.0000	
11	12.42	12.46	.130227	542321	BV	.1268	Tetrachloro-m-xylene
12	13.18		.162774	42526	VB	0.0000	
13	15.61		.185400	30757	BB	0.0000	
14	17.37		.141549	62141	PB	0.0000	
15	20.98		.117789	131812	PV	0.0000	
16	21.49	21.49	.104718	111125	VV	.0242	~~delta-BHC~~
17	21.65		.110896	13500	VB	0.0000	
18	22.80		.112583	76827	BV	0.0000	aug 3/12
19	22.95		.114662	22951	VB	0.0000	
20	26.31		.413801	34737	BV	0.0000	
21	27.13		.502616	24476	BB	0.0000	
22	28.00		.563124	242341	BV	0.0000	
23	28.59		.106669	512181	VB	0.0000	
24	29.35		.131146	163801	VB	0.0000	
25	30.08		.120162	91549	BB	0.0000	
26	31.86		.310401	73044	VV	0.0000	
27	33.69		.551793	257979	VV	0.0000	
28	39.94	#40.03	.251709	312271	PV	.0730	Decachlorobiphenyl
29	43.12		.290574	98022	BV	0.0000	
30	44.24		.341001	151266	PB	0.0000	

Total Area : 4226621 Total PPB : .224

Report Time : 2328 10Mar1993
Method : /DATA/LOOP/METHOD/A1211_110.MT
Result File : /HP58901A/A1211110.RES

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58901A Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:RTX-35 ID: 0.53 (mm) Date(s) Analyzed: 01/31/93

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	16.90	16.90	16.92	16.91	16.86	16.96
beta-BHC	19.87	19.89	19.89	19.88	19.83	19.93
delta-BHC	21.77	21.78	21.79	21.78	21.73	21.83
gamma-BHC (Lindane)	19.30	19.31	19.32	19.31	19.26	19.36
Heptachlor	21.50	21.51	21.52	21.51	21.46	21.56
Aldrin	22.98	22.99	22.99	22.99	22.94	23.04
Heptachlor epoxide	25.06	25.07	25.08	25.07	25.00	25.14
Endosulfan I	26.25	26.25	26.26	26.25	26.18	26.32
Dieldrin	27.15	27.15	27.16	27.15	27.08	27.22
4,4'-DDE	26.92	26.93	26.93	26.93	26.86	27.00
Endrin	28.12	28.13	28.14	28.13	28.06	28.20
Endosulfan II	28.62	28.63	28.64	28.63	28.56	28.70
4,4'-DDD	28.45	28.45	28.46	28.45	28.38	28.52
Endosulfan sulfate	30.00	30.01	30.02	30.01	29.94	30.08
4,4'-DDT	29.32	29.32	29.33	29.32	29.25	29.39
Methoxychlor	32.08	32.08	32.09	32.08	32.01	32.15
Endrin ketone	32.68	32.70	32.70	32.69	32.62	32.76
Endrin aldehyde	29.49	29.50	29.50	29.50	29.43	29.57
alpha-Chlordane	26.21	26.22	26.22	26.22	26.15	26.29
gamma-Chlordane	25.71	25.72	25.73	25.72	25.65	25.79
Tetrachloro-m-xylene	12.76	12.76	12.78	12.77	12.72	12.82
Decachlorobiphenyl	40.65	40.65	40.68	40.66	40.56	40.76

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/-0.05 minutes for all compounds that elute before Heptachlor epoxide, +/-0.07 minutes for all other compounds, except +/-0.10 minutes for Decachlorobiphenyl.

6D
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58901A Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:RTX-35 ID: 0.53 (mm) Date(s) Analyzed: 02/25/93

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	16.57	16.57	16.57	16.57	16.52	16.62
beta-BHC	19.53	19.53	19.54	19.53	19.48	19.58
delta-BHC	21.49	21.49	21.50	21.49	21.44	21.54
gamma-BHC (Lindane)	18.97	18.96	18.96	18.96	18.91	19.01
Heptachlor	21.22	21.21	21.22	21.22	21.17	21.27
Aldrin	22.73	22.72	22.73	22.73	22.68	22.78
Heptachlor epoxide	24.85	24.85	24.85	24.85	24.78	24.92
Endosulfan I	26.04	26.04	26.04	26.04	25.97	26.11
Dieldrin	26.95	26.95	26.95	26.95	26.88	27.02
4,4'-DDE	26.72	26.72	26.73	26.72	26.65	26.79
Endrin	27.93	27.92	27.92	27.92	27.85	27.99
Endosulfan II	28.43	28.43	28.43	28.43	28.36	28.50
4,4'-DDD	28.25	28.25	28.25	28.25	28.18	28.32
Endosulfan sulfate	29.77	29.77	29.77	29.77	29.70	29.84
4,4'-DDT	29.11	29.11	29.11	29.11	29.04	29.18
Methoxychlor	31.78	31.77	31.79	31.78	31.71	31.85
Endrin ketone	32.35	32.35	32.35	32.35	32.28	32.42
Endrin aldehyde	29.27	29.27	29.27	29.27	29.20	29.34
alpha-Chlordane	26.00	26.00	26.01	26.00	25.93	26.07
gamma-Chlordane	25.50	25.50	25.51	25.50	25.43	25.57
Tetrachloro-m-xylene	12.46	12.46	12.46	12.46	12.41	12.51
Decachlorobiphenyl	40.01	40.02	40.02	40.02	39.92	40.12

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/-0.05 minutes for all compounds that elute before Heptachlor epoxide, +/-0.07 minutes for all other compounds, except +/-0.10 minutes for Decachlorobiphenyl.

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58905B Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:DB-1701 ID: 0.53 (mm) Date(s) Analyzed: 02/02/93 02/03/93

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	11.29	11.29	11.29	11.29	11.24	11.34
beta-BHC	17.59	17.58	17.58	17.58	17.53	17.63
delta-BHC	19.50	19.49	19.49	19.49	19.44	19.54
gamma-BHC (Lindane)	12.99	12.99	12.99	12.99	12.94	13.04
Heptachlor	14.05	14.05	14.04	14.05	14.00	14.10
Aldrin	15.63	15.62	15.62	15.62	15.57	15.67
Heptachlor epoxide	20.89	20.88	20.88	20.88	20.81	20.95
Endosulfan I	23.23	23.23	23.22	23.23	23.16	23.30
Dieldrin	26.09	26.09	26.08	26.09	26.02	26.16
4,4'-DDE	25.25	25.24	25.24	25.24	25.17	25.31
Endrin	27.42	27.42	27.42	27.42	27.35	27.49
Endosulfan II	30.54	30.53	30.54	30.54	30.47	30.61
4,4'-DDD	30.48	30.48	30.48	30.48	30.41	30.55
Endosulfan sulfate	34.54	34.54	34.54	34.54	34.47	34.61
4,4'-DDT	31.41	31.40	31.40	31.40	31.33	31.47
Methoxychlor	34.85	34.84	34.84	34.84	34.77	34.91
Endrin ketone	36.48	36.48	36.48	36.48	36.41	36.55
Endrin aldehyde	32.89	32.88	32.88	32.88	32.81	32.95
alpha-Chlordane	24.28	24.27	24.27	24.27	24.20	24.34
gamma-Chlordane	23.84	23.83	23.83	23.83	23.76	23.90
Tetrachloro-m-xylene	7.94	7.94	7.94	7.94	7.89	7.99
Decachlorobiphenyl	40.56	40.56	40.56	40.56	40.46	40.66

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/-0.05 minutes for all compounds that elute before Heptachlor epoxide, +/-0.07 minutes for all other compounds, except +/-0.10 minutes for Decachlorobiphenyl.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58905B Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:DB-1701 ID: 0.53 (mm) Date(s) Analyzed: 02/19/93

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	11.21	11.21	11.22	11.21	11.16	11.26
beta-BHC	17.43	17.43	17.43	17.43	17.38	17.48
delta-BHC	19.32	19.32	19.32	19.32	19.27	19.37
gamma-BHC (Lindane)	12.90	12.90	12.90	12.90	12.85	12.95
Heptachlor	13.94	13.94	13.94	13.94	13.89	13.99
Aldrin	15.50	15.50	15.50	15.50	15.45	15.55
Heptachlor epoxide	20.69	20.69	20.69	20.69	20.62	20.76
Endosulfan I	23.05	23.05	23.05	23.05	22.98	23.12
Dieldrin	25.94	25.94	25.94	25.94	25.87	26.01
4,4'-DDE	25.09	25.09	25.09	25.09	25.02	25.16
Endrin	27.28	27.29	27.29	27.29	27.22	27.36
Endosulfan II	30.42	30.43	30.42	30.42	30.35	30.49
4,4'-DDD	30.37	30.37	30.37	30.37	30.30	30.44
Endosulfan sulfate	34.44	34.45	34.45	34.45	34.38	34.52
4,4'-DDT	31.30	31.30	31.30	31.30	31.23	31.37
Methoxychlor	34.76	34.76	34.76	34.76	34.69	34.83
Endrin ketone	36.39	36.39	36.39	36.39	36.32	36.46
Endrin aldehyde	32.78	32.78	32.78	32.78	32.71	32.85
alpha-Chlordane	24.12	24.12	24.11	24.12	24.05	24.19
gamma-Chlordane	23.67	23.67	23.67	23.67	23.60	23.74
Tetrachloro-m-xylene	7.86	7.87	7.87	7.87	7.82	7.92
Decachlorobiphenyl	40.48	40.48	40.48	40.48	40.38	40.58

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are +/-0.05 minutes for all compounds that elute before Heptachlor epoxide, +/-0.07 minutes for all other compounds, except +/-0.10 minutes for Decachlorobiphenyl.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58901A Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:RTX-35 ID: 0.53 (mm) Date(s) Analyzed: 01/31/93

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	31261000	36444150	39869225	35858125	12.1
beta-BHC	18179800	18390650	19623400	18731283	4.2
delta-BHC	27219600	28062500	34833600	30038567	13.9
gamma-BHC (Lindane)	30918800	34491100	38746400	34718767	11.3
Heptachlor	31285800	33968400	33564738	32939646	4.4
Aldrin	32140000	32896300	37687825	34241375	8.8
Heptachlor epoxide	30366800	30404400	32475788	31082329	3.9
Endosulfan I	26213800	27011900	28421738	27215812	4.1
Dieldrin	26690600	29938525	31653338	29427488	8.6
4,4'-DDE	24259300	26542650	29414919	26738956	9.7
Endrin	20472800	22101475	22445856	21673377	4.9
Endosulfan II	25663200	25034125	26766138	25821154	3.4
4,4'-DDD	20204300	21239875	21478031	20974069	3.2
Endosulfan sulfate	22473400	22579925	24840494	23297940	5.7
4,4'-DDT	14769300	21517875	23146244	19811140	22.4
Methoxychlor	8353400	9160990	8886108	8800166	4.7
Endrin ketone	27117800	27953500	30344681	28471994	5.9
Endrin aldehyde	21349500	19702225	20224544	20425423	4.1
alpha-Chlordane	35620000	34959050	35471525	35350192	1.0
gamma-Chlordane	33356800	32430800	33560425	33116008	1.8
Tetrachloro-m-xylene	29073000	31641000	32402288	31038762	5.6
Decachlorobiphenyl	40906100	39792725	36033169	38910665	6.6

* Surrogate factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58901A Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:RTX-35 ID: 0.53 (mm) Date(s) Analyzed: 02/25/93

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	40753000	47983850	56215975	48317608	16.0
beta-BHC	28083800	29070000	26939150	28030983	3.8
delta-BHC	39575000	45934500	50217250	45242250	11.8
gamma-BHC (Lindane)	42578000	47367000	51784538	47243179	9.7
Heptachlor	37981600	37271550	37413425	37555525	1.0
Aldrin	39341000	42049000	44995125	42128375	6.7
Heptachlor epoxide	34198600	36031200	38835875	36355225	6.4
Endosulfan I	29023400	31150350	34054250	31409333	8.0
Dieldrin	28489000	34230600	33632500	32117367	9.8
4,4'-DDE	30452000	36230925	34455700	33712875	8.8
Endrin	25245100	26951575	27519388	26572021	4.4
Endosulfan II	27763400	29357000	28777856	28632752	2.8
4,4'-DDD	23862300	26031875	27308181	25734119	6.8
Endosulfan sulfate	24279300	26186625	27035525	25833817	5.5
4,4'-DDT	20921000	23722350	25998344	23547231	10.8
Methoxychlor	12337980	11837815	9817349	11331048	11.8
Endrin ketone	30054200	33346125	34143475	32514600	6.7
Endrin aldehyde	27776200	24277750	22817256	24957069	10.2
alpha-Chlordane	38415200	39751250	42964388	40376946	5.8
gamma-Chlordane	35794800	37687600	39831338	37771246	5.3
Tetrachloro-m-xylene	41785200	42778300	42732512	42432004	1.3
Decachlorobiphenyl	44194000	42781575	39375794	42117123	5.9

* Surrogate factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58905B Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:DB-1701 ID: 0.53 (mm) Date(s) Analyzed: 02/02/93 02/03/93

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	7280800	8638800	12444362	9454654	28.3
beta-BHC	6532000	6351300	7140300	6674533	6.2
delta-BHC	6841200	7097950	9580250	7839800	19.3
gamma-BHC (Lindane)	7691600	9122350	12541575	9785175	25.5
Heptachlor	12223400	11178100	11255612	11552371	5.0
Aldrin	9276400	9342200	11864612	10161071	14.5
Heptachlor epoxide	10590200	9733000	10379900	10234367	4.4
Endosulfan I	9014600	8769000	9693412	9159004	5.2
Dieldrin	8695100	9421975	11780225	9965767	16.2
4,4'-DDE	9359800	9332625	11788788	10160404	13.9
Endrin	7769800	8388700	10149619	8769373	14.1
Endosulfan II	8772700	8859800	10501906	9378135	10.4
4,4'-DDD	8145700	8747650	9489025	8794125	7.6
Endosulfan sulfate	7434600	7818075	9191800	8148158	11.3
4,4'-DDT	6616800	6434250	7434688	6828579	7.8
Methoxychlor	3637340	3767270	3737822	3714144	1.8
Endrin ketone	7129900	7717425	9288781	8045369	13.9
Endrin aldehyde	4254700	4716025	5053088	4674604	8.6
alpha-Chlordane	14161400	12908600	13342612	13470871	4.7
gamma-Chlordane	13668400	12086200	12089050	12614550	7.2
Tetrachloro-m-xylene	13318200	11080100	11912638	12103646	9.3
Decachlorobiphenyl	13238300	13799800	12967131	13335077	3.2

* Surrogate factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58905B Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:DB-1701 ID: 0.53 (mm) Date(s) Analyzed: 02/19/93

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	6955400	9103750	12573050	9544067	29.7
beta-BHC	6699400	6864500	7695700	7086533	7.5
delta-BHC	7289600	7479450	10221650	8330233	19.7
gamma-BHC (Lindane)	7580400	9506050	12545762	9877404	25.3
Heptachlor	12235200	11977700	11736162	11983021	2.1
Aldrin	9203400	9494700	12505038	10401046	17.6
Heptachlor epoxide	10320600	9763500	10756575	10280225	4.8
Endosulfan I	8657400	8771650	9327238	8918762	4.0
Dieldrin	8582600	9504600	11699356	9928852	16.1
4,4'-DDE	9028200	9439275	12381588	10283021	17.8
Endrin	7595400	8755200	10463038	8937879	16.1
Endosulfan II	10270600	9179300	10627881	10025927	7.5
4,4'-DDD	7926200	8457450	9701644	8695098	10.5
Endosulfan sulfate	6535700	7458000	9080238	7691312	16.7
4,4'-DDT	6585800	6866700	7940725	7131075	10.0
Methoxychlor	4017880	4513330	4191710	4240973	5.9
Endrin ketone	8578600	8566250	9767800	8970883	7.7
Endrin aldehyde	5985100	5440025	5816569	5747231	4.8
alpha-Chlordane	13686600	12871300	13560138	13372679	3.3
gamma-Chlordane	13230000	12047500	12358775	12545425	4.9
Tetrachloro-m-xylene	19314200	14642700	12191812	15382904	23.5
Decachlorobiphenyl	13086600	12965775	12202788	12751721	3.8

* Surrogate factors are measured from Standard Mix A analyses.

%RSD must be less than or equal 20.0% for all compounds except the surrogates, where %RSD must be less than or equal to 30.0%. Up to two target compounds, but not surrogates, may have %RSD greater than 20.0% but less than or equal to 30.0%.

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58901A Date(s) Analyzed: 01/30/93 01/31/93

GC Column:RTX-35 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	28.82	28.75	28.89	1144244
		*2	29.84	29.77	29.91	574134
		*3	31.44	31.37	31.51	1314458
		4				
		5				
Aroclor-1016	0.10	*1	19.13	19.06	19.20	1813810
		*2	21.45	21.38	21.52	3002970
		*3	24.09	24.02	24.16	998090
		4				
		5				
Aroclor-1221	0.20	*1	15.19	15.12	15.26	291225
		*2	16.47	16.40	16.54	394755
		*3	19.14	19.07	19.21	336150
		4				
		5				
Aroclor-1232	0.10	*1	19.14	19.07	19.21	1121160
		*2	20.70	20.63	20.77	742860
		*3	21.45	21.38	21.52	2372720
		4				
		5				
Aroclor-1242	0.10	*1	16.47	16.40	16.54	175580
		*2	19.13	19.06	19.20	1300730
		*3	21.45	21.38	21.52	1900950
		4				
		5				
Aroclor-1248	0.10	*1	22.95	22.88	23.02	1300300
		*2	24.09	24.02	24.16	1113290
		*3	25.18	25.11	25.25	1263530
		4				
		5				
Aroclor-1254	0.10	*1	25.53	25.46	25.60	1385990
		*2	25.89	25.82	25.96	1664210
		*3	27.36	27.29	27.43	2248740
		4				
		5				
Aroclor-1260	0.10	*1	28.24	28.17	28.31	2879030
		*2	29.36	29.29	29.43	1664620
		*3	31.28	31.21	31.35	3620420
		4				
		5				

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58901A Date(s) Analyzed: 02/24/93 02/25/93

GC Column:RTX-35 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	28.61	28.54	28.68	1392048
		*2	30.01	29.94	30.08	960338
		*3	31.15	31.08	31.22	1553312
		4				
		5				
Aroclor-1016	0.10	*1	16.13	16.06	16.20	867260
		*2	18.79	18.72	18.86	3390680
		*3	21.15	21.08	21.22	5185130
		4				
		5				
Aroclor-1221	0.20	*1	16.14	16.07	16.21	1076595
		*2	18.80	18.73	18.87	407725
		*3	21.15	21.08	21.22	450480
		4				
		5				
Aroclor-1232	0.10	*1	16.13	16.06	16.20	1763510
		*2	18.79	18.72	18.86	2501540
		*3	21.15	21.08	21.22	2728990
		4				
		5				
Aroclor-1242	0.10	*1	16.13	16.06	16.20	644920
		*2	18.79	18.72	18.86	2632770
		*3	21.15	21.08	21.22	3662630
		4				
		5				
Aroclor-1248	0.10	*1	18.79	18.72	18.86	1395450
		*2	21.14	21.07	21.21	2465120
		*3	22.89	22.82	22.96	1620280
		4				
		5				
Aroclor-1254	0.10	*1	25.68	25.61	25.75	2518740
		*2	27.16	27.09	27.23	3103740
		*3	27.62	27.55	27.69	3266440
		4				
		5				
Aroclor-1260	0.10	*1	28.04	27.97	28.11	3224300
		*2	29.15	29.08	29.22	2412060
		*3	30.99	30.92	31.06	4718860
		4				
		5				

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58905B Date(s) Analyzed: 02/02/93 02/03/93

GC Column:DB-1701 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	33.68	33.61	33.75	139606
		*2	34.15	34.08	34.22	271726
		*3	35.37	35.30	35.44	81956
		4				
		5				
Aroclor-1016	0.10	*1	10.14	10.07	10.21	383890
		*2	11.56	11.49	11.63	734070
		*3	13.62	13.55	13.69	1346240
		4				
		5				
Aroclor-1221	0.20	*1	9.33	9.26	9.40	144565
		*2	10.14	10.07	10.21	430100
		*3	11.56	11.49	11.63	77080
		4				
		5				
Aroclor-1232	0.10	*1	10.14	10.07	10.21	514670
		*2	11.56	11.49	11.63	349180
		*3	13.62	13.55	13.69	579610
		4				
		5				
Aroclor-1242	0.10	*1	11.56	11.49	11.63	592960
		*2	13.62	13.55	13.69	1063820
		*3	14.29	14.22	14.36	407120
		4				
		5				
Aroclor-1248	0.10	*1	13.62	13.55	13.69	613940
		*2	17.13	17.06	17.20	682340
		*3	17.81	17.74	17.88	400970
		4				
		5				
Aroclor-1254	0.10	*1	25.67	25.60	25.74	866320
		*2	27.43	27.36	27.50	763680
		*3	28.30	28.23	28.37	548960
		4				
		5				
Aroclor-1260	0.10	*1	32.33	32.26	32.40	851660
		*2	33.90	33.83	33.97	1392940
		*3	35.65	35.58	35.72	965490
		4				
		5				

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Instrument ID: HP58905B Date(s) Analyzed: 02/18/93 02/19/93

GC Column:DB-1701 ID: 0.53 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	0.50	*1	30.18	30.11	30.25	364880
		*2	31.70	31.63	31.77	574100
		*3	32.10	32.03	32.17	354438
		4				
		5				
Aroclor-1016	0.10	*1	10.06	9.99	10.13	413350
		*2	11.48	11.41	11.55	785830
		*3	13.51	13.44	13.58	1432850
		4				
		5				
Aroclor-1221	0.20	*1	10.06	9.99	10.13	475540
		*2	11.48	11.41	11.55	84350
		*3	13.52	13.45	13.59	120545
		4				
		5				
Aroclor-1232	0.10	*1	10.06	9.99	10.13	481720
		*2	11.48	11.41	11.55	382980
		*3	13.51	13.44	13.58	628220
		4				
		5				
Aroclor-1242	0.10	*1	10.06	9.99	10.13	320020
		*2	11.48	11.41	11.55	605040
		*3	13.52	13.45	13.59	1086730
		4				
		5				
Aroclor-1248	0.10	*1	11.48	11.41	11.55	282080
		*2	13.52	13.45	13.59	661760
		*3	14.18	14.11	14.25	194320
		4				
		5				
Aroclor-1254	0.10	*1	25.52	25.45	25.59	861140
		*2	26.60	26.53	26.67	570040
		*3	27.29	27.22	27.36	861790
		4				
		5				
Aroclor-1260	0.10	*1	30.26	30.19	30.33	1524300
		*2	32.21	32.14	32.28	1976500
		*3	33.80	33.73	33.87	1241220
		4				
		5				

* Denotes required peaks

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column (1):RTX-35 ID: 0.53(mm) Instrument ID (1): HP58901A

EPA Sample No. (standard 1):RESC11 Lab Sample ID (1): RESC11

Date Analyzed (1): 01/30/93 Time Analyzed (1): 1558

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	12.75	100.0
02	gamma-Chlordane	25.71	100.0
03	Endosulfan I	26.24	100.0
04	4,4'-DDE	26.91	78.0
05	Dieldrin	27.15	100.0
06	Endosulfan sulfate	29.99	100.0
07	Methoxychlor	32.06	100.0
08	Endrin ketone	32.67	100.0
09	Decachlorobiphenyl	40.61	

GC Column (2):DB-1701 ID: 0.53(mm) Instrument ID (2): HP58905B

EPA Sample No. (standard 2):RESCB8 Lab Sample ID (2): RESCB8

Date Analyzed (2): 02/02/93 Time Analyzed (2): 1523

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.93	100.0
02	Endosulfan I	23.20	100.0
03	gamma-Chlordane	23.81	100.0
04	4,4'-DDE	25.22	100.0
05	Dieldrin	26.06	100.0
06	Endosulfan sulfate	34.53	91.0
07	Methoxychlor	34.83	100.0
08	Endrin ketone	36.47	100.0
09	Decachlorobiphenyl	40.55	

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column (1):DB-1701 ID: 0.53(mm) Instrument ID (1): HP58905B

EPA Sample No. (standard 1):RESCB8 Lab Sample ID (1): RESCB8

Date Analyzed (1): 02/02/93 Time Analyzed (1): 1523

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.93	100.0
02	Endosulfan I	23.20	100.0
03	gamma-Chlordane	23.81	100.0
04	4,4'-DDE	25.22	100.0
05	Dieldrin	26.06	100.0
06	Endosulfan sulfate	34.53	91.0
07	Methoxychlor	34.83	100.0
08	Endrin ketone	36.47	100.0
09	Decachlorobiphenyl	40.55	

GC Column (2):RTX-35 ID: 0.53(mm) Instrument ID (2): HP58901A

EPA Sample No. (standard 2):RESC13 Lab Sample ID (2): RESC13

Date Analyzed (2): 02/24/93 Time Analyzed (2): 1910

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	12.46	100.0
02	gamma-Chlordane	25.50	100.0
03	Endosulfan I	26.04	100.0
04	4,4'-DDE	26.72	94.0
05	Dieldrin	26.95	100.0
06	Endosulfan sulfate	29.76	100.0
07	Methoxychlor	31.77	100.0
08	Endrin ketone	32.34	100.0
09	Decachlorobiphenyl	40.01	

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

PESTICIDE ANALYTE RESOLUTION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column (1):DB-1701 ID: 0.53(mm) Instrument ID (1): HP58905B

EPA Sample No. (standard 1):RESCC3 Lab Sample ID (1): RESCC3

Date Analyzed (1): 02/18/93 Time Analyzed (1): 2105

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	7.87	100.0
02	Endosulfan I	23.05	100.0
03	gamma-Chlordane	23.66	100.0
04	4,4'-DDE	25.08	100.0
05	Dieldrin	25.93	100.0
06	Endosulfan sulfate	34.44	83.0
07	Methoxychlor	34.76	100.0
08	Endrin ketone	36.39	100.0
09	Decachlorobiphenyl	40.48	

GC Column (2):RTX-35 ID: 0.53(mm) Instrument ID (2): HP58901A

EPA Sample No. (standard 2):RESC13 Lab Sample ID (2): RESC13

Date Analyzed (2): 02/24/93 Time Analyzed (2): 1910

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	12.46	100.0
02	gamma-Chlordane	25.50	100.0
03	Endosulfan I	26.04	100.0
04	4,4'-DDE	26.72	94.0
05	Dieldrin	26.95	100.0
06	Endosulfan sulfate	29.76	100.0
07	Methoxychlor	31.77	100.0
08	Endrin ketone	32.34	100.0
09	Decachlorobiphenyl	40.01	

Resolution of two adjacent peaks must be calculated as a percentage of the height of the smaller peak, and must be greater than or equal to 60.0%.

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

EPA Sample No.(PIBLK): _____ Date Analyzed : _____

Lab Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No.(PEM): PEM79 Date Analyzed : 01/30/93

Lab Sample ID (PEM): PEM79 Time Analyzed : 1652

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.89	16.86	16.96	0.0090	0.0100	10.0
beta-BHC	19.86	19.83	19.93	0.011	0.0100	10.0
gamma-BHC (Lindane)	19.29	19.26	19.36	0.0096	0.0100	4.0
Endrin	28.12	28.06	28.20	0.050	0.050	0.0
4,4'-DDT	29.31	29.25	29.39	0.10	0.10	0.0
Methoxychlor	32.06	32.01	32.15	0.25	0.25	0.0

4,4'-DDT % breakdown (1): 7.5 Endrin % breakdown (1): 8.6

Combined % breakdown (1): 16.1

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

EPA Sample No.(PIBLK): PIBLK03 Date Analyzed : 01/31/93

Lab Sample ID (PIBLK): PIBLK03 Time Analyzed : 0526

EPA Sample No.(PEM): PEM83 Date Analyzed : 01/31/93

Lab Sample ID (PEM): PEM83 Time Analyzed : 0620

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.91	16.86	16.96	0.0088	0.0100	12.0
beta-BHC	19.89	19.83	19.93	0.011	0.0100	10.0
gamma-BHC (Lindane)	19.32	19.26	19.36	0.0094	0.0100	6.0
Endrin	28.14	28.06	28.20	0.049	0.050	2.0
4,4'-DDT	29.33	29.25	29.39	0.099	0.10	1.0
Methoxychlor	32.10	32.01	32.15	0.25	0.25	0.0

4,4'-DDT % breakdown (1): 7.6 Endrin % breakdown (1): 9.4

Combined % breakdown (1): 17.0

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

EPA Sample No.(PIBLK): PIBLK61 Date Analyzed : 02/17/93

Lab Sample ID (PIBLK): PIBLK61 Time Analyzed : 1953

EPA Sample No.(PEM): PEM13 Date Analyzed : 02/17/93

Lab Sample ID (PEM): PEM13 Time Analyzed : 2047

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.92	16.86	16.96	0.011	0.0100	10.0
beta-BHC	19.90	19.83	19.93	0.012	0.0100	20.0
gamma-BHC (Lindane)	19.33	19.26	19.36	0.0100	0.0100	0.0
Endrin	28.14	28.06	28.20	0.050	0.050	0.0
4,4'-DDT	29.33	29.25	29.39	0.099	0.10	1.0
Methoxychlor	32.09	32.01	32.15	0.26	0.25	4.0

4,4'-DDT % breakdown (1): 3.8 Endrin % breakdown (1): 6.0

Combined % breakdown (1): 9.8

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

EPA Sample No.(PIBLK): PIBLK65 Date Analyzed : 02/18/93

Lab Sample ID (PIBLK): PIBLK65 Time Analyzed : 2115

EPA Sample No.(PEM): PEM15 Date Analyzed : 02/18/93

Lab Sample ID (PEM): PEM15 Time Analyzed : 2208

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.93	16.86	16.96	0.0100	0.0100	0.0
beta-BHC	19.91	19.83	19.93	0.012	0.0100	20.0
gamma-BHC (Lindane)	19.33	19.26	19.36	0.0095	0.0100	5.0
Endrin	28.14	28.06	28.20	0.051	0.050	2.0
4,4'-DDT	29.34	29.25	29.39	0.10	0.10	0.0
Methoxychlor	32.11	32.01	32.15	0.26	0.25	4.0

4,4'-DDT % breakdown (1): 5.2 Endrin % breakdown (1): 5.6

Combined % breakdown (1): 10.8

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

EPA Sample No.(PIBLK): PIBLK69 Date Analyzed : 02/19/93

Lab Sample ID (PIBLK): PIBLK69 Time Analyzed : 1917

EPA Sample No.(PEM): PEM17 Date Analyzed : 02/19/93

Lab Sample ID (PEM): PEM17 Time Analyzed : 2011

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.92	16.86	16.96	0.0100	0.0100	0.0
beta-BHC	19.90	19.83	19.93	0.012	0.0100	20.0
gamma-BHC (Lindane)	19.33	19.26	19.36	0.0091	0.0100	9.0
Endrin	28.14	28.06	28.20	0.049	0.050	2.0
4,4'-DDT	29.33	29.25	29.39	0.096	0.10	4.0
Methoxychlor	32.10	32.01	32.15	0.22	0.25	12.0

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown (1): 5.0

Combined % breakdown (1): 5.0

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

EPA Sample No.(PIBLK): PIBLK73 Date Analyzed : 02/20/93

Lab Sample ID (PIBLK): PIBLK73 Time Analyzed : 2058

EPA Sample No.(PEM): PEM19 Date Analyzed : 02/20/93

Lab Sample ID (PEM): PEM19 Time Analyzed : 2152

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.92	16.86	16.96	0.012	0.0100	20.0
beta-BHC	19.90	19.83	19.93	0.012	0.0100	20.0
gamma-BHC (Lindane)	19.33	19.26	19.36	0.011	0.0100	10.0
Endrin	28.13	28.06	28.20	0.053	0.050	6.0
4,4'-DDT	29.33	29.25	29.39	0.10	0.10	0.0
Methoxychlor	32.09	32.01	32.15	0.26	0.25	4.0

4,4'-DDT % breakdown (1): 7.5 Endrin % breakdown (1): 7.8

Combined % breakdown (1): 15.3

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

EPA Sample No.(PIBLK): _____ Date Analyzed : _____

Lab Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No.(PEM): PEM25 Date Analyzed : 02/24/93

Lab Sample ID (PEM): PEM25 Time Analyzed : 2004

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.57	16.52	16.62	0.0100	0.0100	0.0
beta-BHC	19.53	19.48	19.58	0.0100	0.0100	0.0
gamma-BHC (Lindane)	18.96	18.91	19.01	0.0100	0.0100	0.0
Endrin	27.92	27.85	27.99	0.054	0.050	8.0
4,4'-DDT	29.11	29.04	29.18	0.12	0.10	20.0
Methoxychlor	31.77	31.71	31.85	0.25	0.25	0.0

4,4'-DDT % breakdown (1): 1.9 Endrin % breakdown (1): 2.8

Combined % breakdown (1): 4.7

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

EPA Sample No.(PIBLK): PIBLK79 Date Analyzed : 02/25/93

Lab Sample ID (PIBLK): PIBLK79 Time Analyzed : 0839

EPA Sample No.(PEM): PEM27 Date Analyzed : 02/25/93

Lab Sample ID (PEM): PEM27 Time Analyzed : 0938

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.58	16.52	16.62	0.0098	0.0100	2.0
beta-BHC	19.54	19.48	19.58	0.0100	0.0100	0.0
gamma-BHC (Lindane)	18.97	18.91	19.01	0.0097	0.0100	3.0
Endrin	27.93	27.85	27.99	0.053	0.050	6.0
4,4'-DDT	29.11	29.04	29.18	0.12	0.10	20.0
Methoxychlor	31.78	31.71	31.85	0.26	0.25	4.0

4,4'-DDT % breakdown (1): 5.1 Endrin % breakdown (1): 3.0

Combined % breakdown (1): 8.1

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

EPA Sample No.(PIBLK): PIBLK91 Date Analyzed : 03/02/93

Lab Sample ID (PIBLK): PIBLK91 Time Analyzed : 1915

EPA Sample No.(PEM): PEM33 Date Analyzed : 03/02/93

Lab Sample ID (PEM): PEM33 Time Analyzed : 2009

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.56	16.52	16.62	0.0100	0.0100	0.0
beta-BHC	19.52	19.48	19.58	0.0099	0.0100	1.0
gamma-BHC (Lindane)	18.95	18.91	19.01	0.0100	0.0100	0.0
Endrin	27.92	27.85	27.99	0.050	0.050	0.0
4,4'-DDT	29.11	29.04	29.18	0.11	0.10	10.0
Methoxychlor	31.77	31.71	31.85	0.26	0.25	4.0

4,4'-DDT % breakdown (1): 1.7 Endrin % breakdown (1): 2.4

Combined % breakdown (1): 4.1

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

EPA Sample No.(PIBLK): PIBLK95 Date Analyzed : 03/03/93

Lab Sample ID (PIBLK): PIBLK95 Time Analyzed : 2116

EPA Sample No.(PEM): PEM35 Date Analyzed : 03/03/93

Lab Sample ID (PEM): PEM35 Time Analyzed : 2304

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.56	16.52	16.62	0.0095	0.0100	5.0
beta-BHC	19.52	19.48	19.58	0.0094	0.0100	6.0
gamma-BHC (Lindane)	18.95	18.91	19.01	0.0094	0.0100	6.0
Endrin	27.92	27.85	27.99	0.048	0.050	4.0
4,4'-DDT	29.10	29.04	29.18	0.10	0.10	0.0
Methoxychlor	31.77	31.71	31.85	0.24	0.25	4.0

4,4'-DDT % breakdown (1): 2.4 Endrin % breakdown (1): 2.6

Combined % breakdown (1): 5.0

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

EPA Sample No.(PIBLK): PIBLK99 Date Analyzed : 03/04/93

Lab Sample ID (PIBLK): PIBLK99 Time Analyzed : 2118

EPA Sample No.(PEM): PEM37 Date Analyzed : 03/04/93

Lab Sample ID (PEM): PEM37 Time Analyzed : 2213

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.53	16.52	16.62	0.0100	0.0100	0.0
beta-BHC	19.49	19.48	19.58	0.0100	0.0100	0.0
gamma-BHC (Lindane)	18.92	18.91	19.01	0.0100	0.0100	0.0
Endrin	27.90	27.85	27.99	0.050	0.050	0.0
4,4'-DDT	29.08	29.04	29.18	0.10	0.10	0.0
Methoxychlor	31.74	31.71	31.85	0.22	0.25	12.0

4,4'-DDT % breakdown (1): 4.0 Endrin % breakdown (1): 4.0

Combined % breakdown (1): 8.0

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/02/93 02/03/93

EPA Sample No.(PIBLK): _____ Date Analyzed : _____

Lab Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No.(PEM): PEMH2 Date Analyzed : 02/02/93

Lab Sample ID (PEM): PEMH2 Time Analyzed : 1617

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.29	11.24	11.34	0.0086	0.0100	14.0
beta-BHC	17.58	17.53	17.63	0.0100	0.0100	0.0
gamma-BHC (Lindane)	12.99	12.94	13.04	0.0085	0.0100	15.0
Endrin	27.42	27.35	27.49	0.048	0.050	4.0
4,4'-DDT	31.41	31.33	31.47	0.097	0.10	3.0
Methoxychlor	34.84	34.77	34.91	0.23	0.25	8.0

4,4'-DDT % breakdown (1): 7.7 Endrin % breakdown (1): 4.0

Combined % breakdown (1): 11.7

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/02/93 02/03/93

EPA Sample No.(PIBLK): PIBLKH9 Date Analyzed : 02/03/93

Lab Sample ID (PIBLK): PIBLKH9 Time Analyzed : 0449

EPA Sample No.(PEM): PEMH3 Date Analyzed : 02/03/93

Lab Sample ID (PEM): PEMH3 Time Analyzed : 0543

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.28	11.24	11.34	0.0088	0.0100	12.0
beta-BHC	17.57	17.53	17.63	0.0100	0.0100	0.0
gamma-BHC (Lindane)	12.98	12.94	13.04	0.0087	0.0100	13.0
Endrin	27.41	27.35	27.49	0.050	0.050	0.0
4,4'-DDT	31.39	31.33	31.47	0.10	0.10	0.0
Methoxychlor	34.84	34.77	34.91	0.25	0.25	0.0

4,4'-DDT % breakdown (1): 8.3 Endrin % breakdown (1): 4.6

Combined % breakdown (1): 12.9

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/02/93 02/03/93

EPA Sample No.(PIBLK): PIBLKI8 Date Analyzed : 02/10/93

Lab Sample ID (PIBLK): PIBLKI8 Time Analyzed : 1617

EPA Sample No.(PEM): PEMH8 Date Analyzed : 02/10/93

Lab Sample ID (PEM): PEMH8 Time Analyzed : 1710

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.27	11.24	11.34	0.0089	0.0100	11.0
beta-BHC	17.55	17.53	17.63	0.0100	0.0100	0.0
gamma-BHC (Lindane)	12.97	12.94	13.04	0.0088	0.0100	12.0
Endrin	27.39	27.35	27.49	0.050	0.050	0.0
4,4'-DDT	31.38	31.33	31.47	0.10	0.10	0.0
Methoxychlor	34.82	34.77	34.91	0.26	0.25	4.0

4,4'-DDT % breakdown (1): 7.2 Endrin % breakdown (1): 3.6

Combined % breakdown (1): 10.8

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/02/93 02/03/93

EPA Sample No.(PIBLK): PIBLKJ1 Date Analyzed : 02/11/93

Lab Sample ID (PIBLK): PIBLKJ1 Time Analyzed : 1647

EPA Sample No.(PEM): PEMH9 Date Analyzed : 02/11/93

Lab Sample ID (PEM): PEMH9 Time Analyzed : 1740

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.29	11.24	11.34	0.0092	0.0100	8.0
beta-BHC	17.58	17.53	17.63	0.0100	0.0100	0.0
gamma-BHC (Lindane)	13.00	12.94	13.04	0.0091	0.0100	9.0
Endrin	27.42	27.35	27.49	0.052	0.050	4.0
4,4'-DDT	31.40	31.33	31.47	0.11	0.10	10.0
Methoxychlor	34.83	34.77	34.91	0.26	0.25	4.0

4,4'-DDT % breakdown (1): 6.4 Endrin % breakdown (1): 3.6

Combined % breakdown (1): 10.0

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

EPA Sample No.(PIBLK): _____ Date Analyzed : _____

Lab Sample ID (PIBLK): _____ Time Analyzed : _____

EPA Sample No.(PEM): PEMI8 Date Analyzed : 02/18/93

Lab Sample ID (PEM): PEMI8 Time Analyzed : 2159

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.21	11.16	11.26	0.0085	0.0100	15.0
beta-BHC	17.42	17.38	17.48	0.0099	0.0100	1.0
gamma-BHC (Lindane)	12.89	12.85	12.95	0.0086	0.0100	14.0
Endrin	27.28	27.22	27.36	0.052	0.050	4.0
4,4'-DDT	31.30	31.23	31.37	0.11	0.10	10.0
Methoxychlor	34.76	34.69	34.83	0.26	0.25	4.0

4,4'-DDT % breakdown (1): 5.2 Endrin % breakdown (1): 0.0

Combined % breakdown (1): 5.2

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

EPA Sample No.(PIBLK): PIBLKJ7 Date Analyzed : 02/19/93

Lab Sample ID (PIBLK): PIBLKJ7 Time Analyzed : 1033

EPA Sample No.(PEM): PEMI9 Date Analyzed : 02/19/93

Lab Sample ID (PEM): PEMI9 Time Analyzed : 1126

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.21	11.16	11.26	0.0088	0.0100	12.0
beta-BHC	17.43	17.38	17.48	0.0100	0.0100	0.0
gamma-BHC (Lindane)	12.90	12.85	12.95	0.0088	0.0100	12.0
Endrin	27.28	27.22	27.36	0.053	0.050	6.0
4,4'-DDT	31.30	31.23	31.37	0.12	0.10	20.0
Methoxychlor	34.76	34.69	34.83	0.27	0.25	8.0

4,4'-DDT % breakdown (1): 3.5 Endrin % breakdown (1): 0.0

Combined % breakdown (1): 3.5

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

100

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

EPA Sample No.(PIBLK): PIBLKJ8 Date Analyzed : 02/19/93

Lab Sample ID (PIBLK): PIBLKJ8 Time Analyzed : 1946

EPA Sample No.(PEM): PEMJ1 Date Analyzed : 02/19/93

Lab Sample ID (PEM): PEMJ1 Time Analyzed : 2040

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.21	11.16	11.26	0.0088	0.0100	12.0
beta-BHC	17.43	17.38	17.48	0.0100	0.0100	0.0
gamma-BHC (Lindane)	12.89	12.85	12.95	0.0086	0.0100	14.0
Endrin	27.28	27.22	27.36	0.049	0.050	2.0
4,4'-DDT	31.30	31.23	31.37	0.11	0.10	10.0
Methoxychlor	34.76	34.69	34.83	0.20	0.25	20.0

4,4'-DDT % breakdown (1): 2.5 Endrin % breakdown (1): 14.6

Combined % breakdown (1): 17.1

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

EPA Sample No.(PIBLK): PIBLKL1 Date Analyzed : 02/26/93

Lab Sample ID (PIBLK): PIBLKL1 Time Analyzed : 0913

EPA Sample No.(PEM): PEMJ7 Date Analyzed : 02/26/93

Lab Sample ID (PEM): PEMJ7 Time Analyzed : 1100

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.22	11.16	11.26	0.0091	0.0100	9.0
beta-BHC	17.44	17.38	17.48	0.0100	0.0100	0.0
gamma-BHC (Lindane)	12.90	12.85	12.95	0.0090	0.0100	10.0
Endrin	27.29	27.22	27.36	0.046	0.050	8.0
4,4'-DDT	31.31	31.23	31.37	0.091	0.10	9.0
Methoxychlor	34.76	34.69	34.83	0.20	0.25	20.0

4,4'-DDT % breakdown (1): 7.8 Endrin % breakdown (1): 2.8

Combined % breakdown (1): 10.6

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

EPA Sample No.(PIBLK): PIBLKL3 Date Analyzed : 02/27/93

Lab Sample ID (PIBLK): PIBLKL3 Time Analyzed : 1002

EPA Sample No.(PEM): PEMJ8 Date Analyzed : 02/27/93

Lab Sample ID (PEM): PEMJ8 Time Analyzed : 1056

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.22	11.16	11.26	0.0093	0.0100	7.0
beta-BHC	17.44	17.38	17.48	0.0100	0.0100	0.0
gamma-BHC (Lindane)	12.90	12.85	12.95	0.0091	0.0100	9.0
Endrin	27.29	27.22	27.36	0.047	0.050	6.0
4,4'-DDT	31.31	31.23	31.37	0.094	0.10	6.0
Methoxychlor	34.76	34.69	34.83	0.20	0.25	20.0

4,4'-DDT % breakdown (1): 5.2 Endrin % breakdown (1): 2.4

Combined % breakdown (1): 7.6

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

EPA Sample No.(PIBLK): PIBLKL5 Date Analyzed : 03/01/93

Lab Sample ID (PIBLK): PIBLKL5 Time Analyzed : 1720

EPA Sample No.(PEM): PEMJ9 Date Analyzed : 03/01/93

Lab Sample ID (PEM): PEMJ9 Time Analyzed : 1815

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.22	11.16	11.26	0.0087	0.0100	13.0
beta-BHC	17.44	17.38	17.48	0.0094	0.0100	6.0
gamma-BHC (Lindane)	12.91	12.85	12.95	0.0085	0.0100	15.0
Endrin	27.31	27.22	27.36	0.044	0.050	12.0
4,4'-DDT	31.31	31.23	31.37	0.091	0.10	9.0
Methoxychlor	34.76	34.69	34.83	0.19	0.25	24.0

4,4'-DDT % breakdown (1): 6.4 Endrin % breakdown (1): 3.8

Combined % breakdown (1): 10.2

QC LIMITS

RPD of amounts in PEM must be less than or equal to 25.0%

4,4'-DDT breakdown must be less than or equal to 20.0%

Endrin breakdown must be less than or equal to 20.0%

Combined breakdown must be less than or equal to 30.0%

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

EPA Sample No.(PIBLK): PIBLK63 Date Analyzed : 02/18/93

Lab Sample ID (PIBLK): PIBLK63 Time Analyzed : 0828

EPA Sample No.(INDA): INDAM73 Date Analyzed : 02/18/93

Lab Sample ID (INDA): INDAM73 Time Analyzed : 0922

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.92	16.86	16.96	0.024	0.020	20.0
gamma-BHC (Lindane)	19.33	19.26	19.36	0.024	0.020	20.0
Heptachlor	21.52	21.46	21.56	0.020	0.020	0.0
Endosulfan I	26.26	26.18	26.32	0.021	0.020	5.0
Dieldrin	27.16	27.08	27.22	0.043	0.040	7.5
Endrin	28.14	28.06	28.20	0.044	0.040	10.0
4,4'-DDD	28.46	28.38	28.52	0.042	0.040	5.0
4,4'-DDT	29.33	29.25	29.39	0.040	0.040	0.0
Methoxychlor	32.09	32.01	32.15	0.210	0.200	5.0
Tetrachloro-m-xylene	12.79	12.72	12.82	0.024	0.020	20.0
Decachlorobiphenyl	40.67	40.56	40.76	0.041	0.040	2.5

EPA Sample No.(INDB): INDBM73 Date Analyzed : 02/18/93

Lab Sample ID (INDB): INDBM73 Time Analyzed : 1016

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	19.90	19.83	19.93	0.024	0.020	20.0
delta-BHC	21.80	21.73	21.83	0.024	0.020	20.0
Aldrin	23.00	22.94	23.04	0.024	0.020	20.0
Heptachlor epoxide	25.08	25.00	25.14	0.022	0.020	10.0
4,4'-DDE	26.93	26.86	27.00	0.046	0.040	15.0
Endosulfan II	28.64	28.56	28.70	0.042	0.040	5.0
Endosulfan sulfate	30.02	29.94	30.08	0.042	0.040	5.0
Endrin ketone	32.71	32.62	32.76	0.044	0.040	10.0
Endrin aldehyde	29.51	29.43	29.57	0.042	0.040	5.0
alpha-Chlordane	26.22	26.15	26.29	0.021	0.020	5.0
gamma-Chlordane	25.73	25.65	25.79	0.021	0.020	5.0
Tetrachloro-m-xylene	12.79	12.72	12.82	0.025	0.020	25.0
Decachlorobiphenyl	40.68	40.56	40.76	0.039	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

EPA Sample No.(PIBLK): PIBLK71 Date Analyzed : 02/20/93

Lab Sample ID (PIBLK): PIBLK71 Time Analyzed : 0719

EPA Sample No.(INDA): INDAM77 Date Analyzed : 02/20/93

Lab Sample ID (INDA): INDAM77 Time Analyzed : 0813

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.91	16.86	16.96	0.024	0.020	20.0
gamma-BHC (Lindane)	19.32	19.26	19.36	0.025	0.020	25.0
Heptachlor	21.52	21.46	21.56	0.019	0.020	5.0
Endosulfan I	26.26	26.18	26.32	0.022	0.020	10.0
Dieldrin	27.16	27.08	27.22	0.039	0.040	2.5
Endrin	28.14	28.06	28.20	0.039	0.040	2.5
4,4'-DDD	28.46	28.38	28.52	0.037	0.040	7.5
4,4'-DDT	29.33	29.25	29.39	0.030	0.040	25.0
Methoxychlor	32.09	32.01	32.15	0.190	0.200	5.0
Tetrachloro-m-xylene	12.78	12.72	12.82	0.024	0.020	20.0
Decachlorobiphenyl	40.68	40.56	40.76	0.036	0.040	10.0

EPA Sample No.(INDB): INDBM77 Date Analyzed : 02/20/93

Lab Sample ID (INDB): INDBM77 Time Analyzed : 0911

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	19.91	19.83	19.93	0.024	0.020	20.0
delta-BHC	21.80	21.73	21.83	0.025	0.020	25.0
Aldrin	23.00	22.94	23.04	0.024	0.020	20.0
Heptachlor epoxide	25.08	25.00	25.14	0.021	0.020	5.0
4,4'-DDE	26.94	26.86	27.00	0.044	0.040	10.0
Endosulfan II	28.64	28.56	28.70	0.041	0.040	2.5
Endosulfan sulfate	30.02	29.94	30.08	0.042	0.040	5.0
Endrin ketone	32.71	32.62	32.76	0.044	0.040	10.0
Endrin aldehyde	29.51	29.43	29.57	0.041	0.040	2.5
alpha-Chlordane	26.22	26.15	26.29	0.020	0.020	0.0
gamma-Chlordane	25.73	25.65	25.79	0.020	0.020	0.0
Tetrachloro-m-xylene	12.79	12.72	12.82	0.025	0.020	25.0
Decachlorobiphenyl	40.67	40.56	40.76	0.035	0.040	12.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

EPA Sample No.(PIBLK): PIBLK93 Date Analyzed : 03/03/93

Lab Sample ID (PIBLK): PIBLK93 Time Analyzed : 0843

EPA Sample No.(INDA): INDAM91 Date Analyzed : 03/03/93

Lab Sample ID (INDA): INDAM91 Time Analyzed : 1129

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.55	16.52	16.62	0.022	0.020	10.0
gamma-BHC (Lindane)	18.95	18.91	19.01	0.022	0.020	10.0
Heptachlor	21.20	21.17	21.27	0.020	0.020	0.0
Endosulfan I	26.03	25.97	26.11	0.019	0.020	5.0
Dieldrin	26.94	26.88	27.02	0.038	0.040	5.0
Endrin	27.92	27.85	27.99	0.039	0.040	2.5
4,4'-DDD	28.25	28.18	28.32	0.037	0.040	7.5
4,4'-DDT	29.10	29.04	29.18	0.037	0.040	7.5
Methoxychlor	31.76	31.71	31.85	0.180	0.200	10.0
Tetrachloro-m-xylene	12.44	12.41	12.51	0.021	0.020	5.0
Decachlorobiphenyl	39.98	39.92	40.12	0.035	0.040	12.5

EPA Sample No.(INDB): INDBM91 Date Analyzed : 03/03/93

Lab Sample ID (INDB): INDBM91 Time Analyzed : 1036

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	19.53	19.48	19.58	0.020	0.020	0.0
delta-BHC	21.49	21.44	21.54	0.021	0.020	5.0
Aldrin	22.72	22.68	22.78	0.021	0.020	5.0
Heptachlor epoxide	24.84	24.78	24.92	0.019	0.020	5.0
4,4'-DDE	26.72	26.65	26.79	0.038	0.040	5.0
Endosulfan II	28.42	28.36	28.50	0.037	0.040	7.5
Endosulfan sulfate	29.76	29.70	29.84	0.037	0.040	7.5
Endrin ketone	32.34	32.28	32.42	0.040	0.040	0.0
Endrin aldehyde	29.27	29.20	29.34	0.034	0.040	15.0
alpha-Chlordane	26.00	25.93	26.07	0.018	0.020	10.0
gamma-Chlordane	25.50	25.43	25.57	0.018	0.020	10.0
Tetrachloro-m-xylene	12.46	12.41	12.51	0.023	0.020	15.0
Decachlorobiphenyl	40.00	39.92	40.12	0.035	0.040	12.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

EPA Sample No.(PIBLK): PIBLK97 Date Analyzed : 03/04/93

Lab Sample ID (PIBLK): PIBLK97 Time Analyzed : 0857

EPA Sample No.(INDA): INDAM93 Date Analyzed : 03/04/93

Lab Sample ID (INDA): INDAM93 Time Analyzed : 0951

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.56	16.52	16.62	0.020	0.020	0.0
gamma-BHC (Lindane)	18.95	18.91	19.01	0.019	0.020	5.0
Heptachlor	21.21	21.17	21.27	0.018	0.020	10.0
Endosulfan I	26.03	25.97	26.11	0.018	0.020	10.0
Dieldrin	26.95	26.88	27.02	0.037	0.040	7.5
Endrin	27.92	27.85	27.99	0.037	0.040	7.5
4,4'-DDD	28.25	28.18	28.32	0.036	0.040	10.0
4,4'-DDT	29.10	29.04	29.18	0.035	0.040	12.5
Methoxychlor	31.77	31.71	31.85	0.180	0.200	10.0
Tetrachloro-m-xylene	12.45	12.41	12.51	0.020	0.020	0.0
Decachlorobiphenyl	39.99	39.92	40.12	0.036	0.040	10.0

EPA Sample No.(INDB): INDBM93 Date Analyzed : 03/04/93

Lab Sample ID (INDB): INDBM93 Time Analyzed : 1045

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	19.52	19.48	19.58	0.019	0.020	5.0
delta-BHC	21.48	21.44	21.54	0.020	0.020	0.0
Aldrin	22.71	22.68	22.78	0.020	0.020	0.0
Heptachlor epoxide	24.84	24.78	24.92	0.019	0.020	5.0
4,4'-DDE	26.71	26.65	26.79	0.038	0.040	5.0
Endosulfan II	28.42	28.36	28.50	0.038	0.040	5.0
Endosulfan sulfate	29.76	29.70	29.84	0.039	0.040	2.5
Endrin ketone	32.34	32.28	32.42	0.039	0.040	2.5
Endrin aldehyde	29.26	29.20	29.34	0.036	0.040	10.0
alpha-Chlordane	25.99	25.93	26.07	0.019	0.020	5.0
gamma-Chlordane	25.49	25.43	25.57	0.019	0.020	5.0
Tetrachloro-m-xylene	12.45	12.41	12.51	0.022	0.020	10.0
Decachlorobiphenyl	39.99	39.92	40.12	0.034	0.040	15.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

108

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

EPA Sample No.(PIBLK): PIBLK01 Date Analyzed : 03/05/93

Lab Sample ID (PIBLK): PIBLK01 Time Analyzed : 0705

EPA Sample No.(INDA): INDAM95 Date Analyzed : 03/05/93

Lab Sample ID (INDA): INDAM95 Time Analyzed : 0758

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	16.53	16.52	16.62	0.022	0.020	10.0
gamma-BHC (Lindane)	18.92	18.91	19.01	0.022	0.020	10.0
Heptachlor	21.18	21.17	21.27	0.019	0.020	5.0
Endosulfan I	26.01	25.97	26.11	0.020	0.020	0.0
Dieldrin	26.93	26.88	27.02	0.040	0.040	0.0
Endrin	27.90	27.85	27.99	0.041	0.040	2.5
4,4'-DDD	28.23	28.18	28.32	0.042	0.040	5.0
4,4'-DDT	29.08	29.04	29.18	0.040	0.040	0.0
Methoxychlor	31.74	31.71	31.85	0.190	0.200	5.0
Tetrachloro-m-xylene	12.42	12.41	12.51	0.022	0.020	10.0
Decachlorobiphenyl	39.95	39.92	40.12	0.038	0.040	5.0

EPA Sample No.(INDB): INDBM95 Date Analyzed : 03/05/93

Lab Sample ID (INDB): INDBM95 Time Analyzed : 0852

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	19.49	19.48	19.58	0.020	0.020	0.0
delta-BHC	21.46	21.44	21.54	0.020	0.020	0.0
Aldrin	22.70	22.68	22.78	0.021	0.020	5.0
Heptachlor epoxide	24.82	24.78	24.92	0.020	0.020	0.0
4,4'-DDE	26.70	26.65	26.79	0.039	0.040	2.5
Endosulfan II	28.41	28.36	28.50	0.045	0.040	12.5
Endosulfan sulfate	29.74	29.70	29.84	0.040	0.040	0.0
Endrin ketone	32.31	32.28	32.42	0.040	0.040	0.0
Endrin aldehyde	29.25	29.20	29.34	0.038	0.040	5.0
alpha-Chlordane	25.98	25.93	26.07	0.020	0.020	0.0
gamma-Chlordane	25.48	25.43	25.57	0.020	0.020	0.0
Tetrachloro-m-xylene	12.43	12.41	12.51	0.023	0.020	15.0
Decachlorobiphenyl	39.95	39.92	40.12	0.038	0.040	5.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/02/93 02/03/93

EPA Sample No.(PIBLK): PIBLKI9 Date Analyzed : 02/11/93

Lab Sample ID (PIBLK): PIBLKI9 Time Analyzed : 0501

EPA Sample No.(INDA): INDAMF1 Date Analyzed : 02/11/93

Lab Sample ID (INDA): INDAMF1 Time Analyzed : 0555

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.28	11.24	11.34	0.019	0.020	5.0
gamma-BHC (Lindane)	12.98	12.94	13.04	0.019	0.020	5.0
Heptachlor	14.04	14.00	14.10	0.019	0.020	5.0
Endosulfan I	23.21	23.16	23.30	0.019	0.020	5.0
Dieldrin	26.07	26.02	26.16	0.038	0.040	5.0
Endrin	27.40	27.35	27.49	0.038	0.040	5.0
4,4'-DDD	30.46	30.41	30.55	0.039	0.040	2.5
4,4'-DDT	31.39	31.33	31.47	0.040	0.040	0.0
Methoxychlor	34.83	34.77	34.91	0.190	0.200	5.0
Tetrachloro-m-xylene	7.94	7.89	7.99	0.022	0.020	10.0
Decachlorobiphenyl	40.54	40.46	40.66	0.038	0.040	5.0

EPA Sample No.(INDB): INDBMF1 Date Analyzed : 02/11/93

Lab Sample ID (INDB): INDBMF1 Time Analyzed : 0648

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	17.56	17.53	17.63	0.020	0.020	0.0
delta-BHC	19.47	19.44	19.54	0.020	0.020	0.0
Aldrin	15.61	15.57	15.67	0.020	0.020	0.0
Heptachlor epoxide	20.86	20.81	20.95	0.020	0.020	0.0
4,4'-DDE	25.22	25.17	25.31	0.040	0.040	0.0
Endosulfan II	30.52	30.47	30.61	0.039	0.040	2.5
Endosulfan sulfate	34.52	34.47	34.61	0.039	0.040	2.5
Endrin ketone	36.46	36.41	36.55	0.040	0.040	0.0
Endrin aldehyde	32.86	32.81	32.95	0.040	0.040	0.0
alpha-Chlordane	24.26	24.20	24.34	0.019	0.020	5.0
gamma-Chlordane	23.81	23.76	23.90	0.019	0.020	5.0
Tetrachloro-m-xylene	7.94	7.89	7.99	0.023	0.020	15.0
Decachlorobiphenyl	40.54	40.46	40.66	0.039	0.040	2.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

EPA Sample No.(PIBLK): PIBLKJ9 Date Analyzed : 02/20/93

Lab Sample ID (PIBLK): PIBLKJ9 Time Analyzed : 0856

EPA Sample No.(INDA): INDAMF7 Date Analyzed : 02/20/93

Lab Sample ID (INDA): INDAMF7 Time Analyzed : 0949

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.22	11.16	11.26	0.018	0.020	10.0
gamma-BHC (Lindane)	12.90	12.85	12.95	0.019	0.020	5.0
Heptachlor	13.95	13.89	13.99	0.019	0.020	5.0
Endosulfan I	23.07	22.98	23.12	0.019	0.020	5.0
Dieldrin	25.95	25.87	26.01	0.038	0.040	5.0
Endrin	27.29	27.22	27.36	0.038	0.040	5.0
4,4'-DDD	30.38	30.30	30.44	0.040	0.040	0.0
4,4'-DDT	31.31	31.23	31.37	0.040	0.040	0.0
Methoxychlor	34.77	34.69	34.83	0.160	0.200	20.0
Tetrachloro-m-xylene	7.88	7.82	7.92	0.019	0.020	5.0
Decachlorobiphenyl	40.49	40.38	40.58	0.038	0.040	5.0

EPA Sample No.(INDB): INDBMF7 Date Analyzed : 02/20/93

Lab Sample ID (INDB): INDBMF7 Time Analyzed : 1045

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	17.44	17.38	17.48	0.019	0.020	5.0
delta-BHC	19.33	19.27	19.37	0.020	0.020	0.0
Aldrin	15.51	15.45	15.55	0.019	0.020	5.0
Heptachlor epoxide	20.71	20.62	20.76	0.019	0.020	5.0
4,4'-DDE	25.10	25.02	25.16	0.039	0.040	2.5
Endosulfan II	30.43	30.35	30.49	0.037	0.040	7.5
Endosulfan sulfate	34.45	34.38	34.52	0.038	0.040	5.0
Endrin ketone	36.40	36.32	36.46	0.035	0.040	12.5
Endrin aldehyde	32.79	32.71	32.85	0.034	0.040	15.0
alpha-Chlordane	24.13	24.05	24.19	0.019	0.020	5.0
gamma-Chlordane	23.68	23.60	23.74	0.019	0.020	5.0
Tetrachloro-m-xylene	7.88	7.82	7.92	0.019	0.020	5.0
Decachlorobiphenyl	40.49	40.38	40.58	0.036	0.040	10.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

EPA Sample No.(PIBLK): PIBLKL2 Date Analyzed : 02/26/93

Lab Sample ID (PIBLK): PIBLKL2 Time Analyzed : 2128

EPA Sample No.(INDA): INDAMG3 Date Analyzed : 02/26/93

Lab Sample ID (INDA): INDAMG3 Time Analyzed : 2316

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.22	11.16	11.26	0.019	0.020	5.0
gamma-BHC (Lindane)	12.91	12.85	12.95	0.019	0.020	5.0
Heptachlor	13.95	13.89	13.99	0.017	0.020	15.0
Endosulfan I	23.08	22.98	23.12	0.019	0.020	5.0
Dieldrin	25.96	25.87	26.01	0.037	0.040	7.5
Endrin	27.30	27.22	27.36	0.035	0.040	12.5
4,4'-DDD	30.38	30.30	30.44	0.039	0.040	2.5
4,4'-DDT	31.31	31.23	31.37	0.032	0.040	20.0
Methoxychlor	34.77	34.69	34.83	0.160	0.200	20.0
Tetrachloro-m-xylene	7.88	7.82	7.92	0.015	0.020	25.0
Decachlorobiphenyl	40.47	40.38	40.58	0.034	0.040	15.0

EPA Sample No.(INDB): INDBMG3 Date Analyzed : 02/27/93

Lab Sample ID (INDB): INDBMG3 Time Analyzed : 0010

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	17.44	17.38	17.48	0.020	0.020	0.0
delta-BHC	19.32	19.27	19.37	0.020	0.020	0.0
Aldrin	15.51	15.45	15.55	0.019	0.020	5.0
Heptachlor epoxide	20.71	20.62	20.76	0.019	0.020	5.0
4,4'-DDE	25.11	25.02	25.16	0.039	0.040	2.5
Endosulfan II	30.43	30.35	30.49	0.036	0.040	10.0
Endosulfan sulfate	34.44	34.38	34.52	0.036	0.040	10.0
Endrin ketone	36.38	36.32	36.46	0.034	0.040	15.0
Endrin aldehyde	32.77	32.71	32.85	0.033	0.040	17.5
alpha-Chlordane	24.13	24.05	24.19	0.018	0.020	10.0
gamma-Chlordane	23.68	23.60	23.74	0.018	0.020	10.0
Tetrachloro-m-xylene	7.88	7.82	7.92	0.016	0.020	20.0
Decachlorobiphenyl	40.47	40.38	40.58	0.034	0.040	15.0

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

EPA Sample No.(PIBLK): PIBLKL4 Date Analyzed : 02/27/93

Lab Sample ID (PIBLK): PIBLKL4 Time Analyzed : 1801

EPA Sample No.(INDA): INDAMG4 Date Analyzed : 02/27/93

Lab Sample ID (INDA): INDAMG4 Time Analyzed : 1947

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.22	11.16	11.26	0.020	0.020	0.0
gamma-BHC (Lindane)	12.90	12.85	12.95	0.019	0.020	5.0
Heptachlor	13.94	13.89	13.99	0.017	0.020	15.0
Endosulfan I	23.06	22.98	23.12	0.018	0.020	10.0
Dieldrin	25.95	25.87	26.01	0.037	0.040	7.5
Endrin	27.29	27.22	27.36	0.034	0.040	15.0
4,4'-DDD	30.37	30.30	30.44	0.038	0.040	5.0
4,4'-DDT	31.31	31.23	31.37	0.030	0.040	25.0
Methoxychlor	34.76	34.69	34.83	0.150	0.200	25.0
Tetrachloro-m-xylene	7.88	7.82	7.92	0.015	0.020	25.0
Decachlorobiphenyl	40.47	40.38	40.58	0.032	0.040	20.0

EPA Sample No.(INDB): INDBMG4 Date Analyzed : 02/27/93

Lab Sample ID (INDB): INDBMG4 Time Analyzed : 2041

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	17.44	17.38	17.48	0.019	0.020	5.0
delta-BHC	19.32	19.27	19.37	0.020	0.020	0.0
Aldrin	15.51	15.45	15.55	0.019	0.020	5.0
Heptachlor epoxide	20.70	20.62	20.76	0.018	0.020	10.0
4,4'-DDE	25.11	25.02	25.16	0.039	0.040	2.5
Endosulfan II	30.43	30.35	30.49	0.035	0.040	12.5
Endosulfan sulfate	34.44	34.38	34.52	0.034	0.040	15.0
Endrin ketone	36.38	36.32	36.46	0.033	0.040	17.5
Endrin aldehyde	32.78	32.71	32.85	0.036	0.040	10.0
alpha-Chlordane	24.13	24.05	24.19	0.017	0.020	15.0
gamma-Chlordane	23.68	23.60	23.74	0.017	0.020	15.0
Tetrachloro-m-xylene	7.88	7.82	7.92	0.016	0.020	20.0
Decachlorobiphenyl	40.47	40.38	40.58	0.031	0.040	22.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

7E
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

EPA Sample No.(PIBLK): PIBLKL6 Date Analyzed : 03/02/93

Lab Sample ID (PIBLK): PIBLKL6 Time Analyzed : 0700

EPA Sample No.(INDA): INDAMG5 Date Analyzed : 03/02/93

Lab Sample ID (INDA): INDAMG5 Time Analyzed : 0754

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
alpha-BHC	11.20	11.16	11.26	0.019	0.020	5.0
gamma-BHC (Lindane)	12.89	12.85	12.95	0.019	0.020	5.0
Heptachlor	13.93	13.89	13.99	0.017	0.020	15.0
Endosulfan I	23.05	22.98	23.12	0.018	0.020	10.0
Dieldrin	25.93	25.87	26.01	0.036	0.040	10.0
Endrin	27.28	27.22	27.36	0.034	0.040	15.0
4,4'-DDD	30.36	30.30	30.44	0.039	0.040	2.5
4,4'-DDT	31.30	31.23	31.37	0.032	0.040	20.0
Methoxychlor	34.75	34.69	34.83	0.150	0.200	25.0
Tetrachloro-m-xylene	7.87	7.82	7.92	0.015	0.020	25.0
Decachlorobiphenyl	40.46	40.38	40.58	0.033	0.040	17.5

EPA Sample No.(INDB): INDBMG5 Date Analyzed : 03/02/93

Lab Sample ID (INDB): INDBMG5 Time Analyzed : 0848

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	RPD
beta-BHC	17.42	17.38	17.48	0.019	0.020	5.0
delta-BHC	19.31	19.27	19.37	0.019	0.020	5.0
Aldrin	15.50	15.45	15.55	0.019	0.020	5.0
Heptachlor epoxide	20.69	20.62	20.76	0.018	0.020	10.0
4,4'-DDE	25.10	25.02	25.16	0.037	0.040	7.5
Endosulfan II	30.42	30.35	30.49	0.035	0.040	12.5
Endosulfan sulfate	34.43	34.38	34.52	0.036	0.040	10.0
Endrin ketone	36.38	36.32	36.46	0.032	0.040	20.0
Endrin aldehyde	32.77	32.71	32.85	0.035	0.040	12.5
alpha-Chlordane	24.11	24.05	24.19	0.018	0.020	10.0
gamma-Chlordane	23.67	23.60	23.74	0.018	0.020	10.0
Tetrachloro-m-xylene	7.87	7.82	7.92	0.018	0.020	10.0
Decachlorobiphenyl	40.47	40.38	40.58	0.033	0.040	17.5

QC LIMITS: RPD of amounts in the Individual Mixes must be less than or equal to 25.0%.

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

Instrument ID: HP58901A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.77 DCB: 40.66

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC11	RESC11	01/30/93	1558	12.75	40.61
02	PEM79	PEM79	01/30/93	1652	12.75	40.61
03	AR166033	AR166033	01/30/93	1746	12.76	40.64
04	AR122123	AR122123	01/30/93	1840	12.76	40.63
05	AR123223	AR123223	01/30/93	1934	12.76	40.64
06	AR124233	AR124233	01/30/93	2027	12.76	40.64
07	AR124833	AR124833	01/30/93	2121	12.76	40.64
08	AR125433	AR125433	01/30/93	2215	12.76	40.65
09	TOXAPH23	TOXAPH23	01/30/93	2309	12.77	40.65
10	INDAL15	INDAL15	01/31/93	0003	12.76	40.65
11	INDBL15	INDBL15	01/31/93	0057	12.76	40.65
12	INDAM45	INDAM45	01/31/93	0150	12.76	40.65
13	INDBM45	INDBM45	01/31/93	0244	12.77	40.67
14	INDAH15	INDAH15	01/31/93	0338	12.78	40.68
15	INDBH15	INDBH15	01/31/93	0432	12.78	40.68
16	PIBLK03	PIBLK03	01/31/93	0526	12.77	40.68
17	PEM83	PEM83	01/31/93	0620	12.78	40.68
18	PIBLK61	PIBLK61	02/17/93	1953	12.79	40.68
19	PEM13	PEM13	02/17/93	2047	12.79	40.68
20	ZZZZZ	0060022	02/17/93	2141		
21	ZZZZZ	0060022	02/17/93	2235		
22	ZZZZZ	0060023	02/17/93	2329		
23	ZZZZZ	0060024	02/18/93	0023		
24	ZZZZZ	0128-B01	02/18/93	0117		
25	ZZZZZ	0201-B04	02/18/93	0211		
26	ZZZZZ	0201-B01	02/18/93	0305		
27	ZZZZZ	0060021STD	02/18/93	0358		
28	ZZZZZ	0060021STDX	02/18/93	0452		
29	ZZZZZ	00600021MSB	02/18/93	0546		
30	ZZZZZ	00600021MSBX	02/18/93	0640		
31	PIBLK63	PIBLK63	02/18/93	0828	12.78	40.67
32	INDAM73	INDAM73	02/18/93	0922	12.79	40.67

QC LIMITS:

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

Instrument ID: HP58901A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.77 DCB: 40.66

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	INDBM73	INDBM73	02/18/93	1016	12.79	40.68
02	ZZZZZ	0060021MS	02/18/93	1110		
03	ZZZZZ	0060021MSD	02/18/93	1216		
04	ZZZZZ	0060028	02/18/93	1404		
05	ZZZZZ	HEXANE	02/18/93	1458		
06	ZZZZZ	0060029	02/18/93	1552		
07	CMW31DL	0060032DL	02/18/93	1646	0.00*	40.66
08	CMW31	0060032	02/18/93	1740	12.78	40.66
09	ZZZZZ	HEXANE	02/18/93	1835		
10	CS49DL	0060033DL	02/18/93	1929	0.00*	0.00*
11	ZZZZZ	PIBLK65	02/18/93	2022		
12	PIBLK65	PIBLK65	02/18/93	2115	12.79	40.70
13	PEM15	PEM15	02/18/93	2208	12.79	40.70
14	PIBLK69	PIBLK69	02/19/93	1917	12.81	40.72
15	PEM17	PEM17	02/19/93	2011	12.79	40.68
16	AR166045	AR166045	02/19/93	2125	12.81	40.68
17	AR124245	AR124245	02/19/93	2219	12.79	40.69
18	AR124845	AR124845	02/19/93	2313	12.79	40.68
19	AR125445	AR125445	02/20/93	0007	12.79	40.68
20	ZZZZZ	0203-B01	02/20/93	0101		
21	ZZZZZ	0202-B03	02/20/93	0155		
22	ZZZZZ	0060030	02/20/93	0249		
23	ZZZZZ	0600031	02/20/93	0343		
24	CS49	0060033	02/20/93	0437	12.76	40.63
25	ZZZZZ	HEXANE	02/20/93	0531		
26	PIBLK71	PIBLK71	02/20/93	0719	12.78	40.65
27	INDAM77	INDAM77	02/20/93	0813	12.78	40.68
28	INDBM77	INDBM77	02/20/93	0911	12.79	40.67
29	CS53DL	0060034DL	02/20/93	1004	0.00*	0.00*
30	CS53	0060034	02/20/93	1106	0.00*	0.00*
31	ZZZZZ	HEXANE	02/20/93	1217		
32	CS64	0060035	02/20/93	1347	12.80	0.00*

QC LIMITS:

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 01/30/93 01/31/93

Instrument ID: HP58901A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.77 DCB: 40.66

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT	TCX #	DCB RT	DCB #
01	ZZZZZ	006011	02/20/93	1441				
02	ZZZZZ	HEXANE	02/20/93	1535				
03	ZZZZZ	0060013	02/20/93	1629				
04	ZZZZZ	0060015	02/20/93	1723				
05	ZZZZZ	0060023	02/20/93	1817				
06	ZZZZZ	0060024	02/20/93	1911				
07	PIBLK73	PIBLK73	02/20/93	2058	12.78		40.66	
08	PEM19	PEM19	02/20/93	2152	12.79		40.66	
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QC LIMITS:

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

Instrument ID: HP58901A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.46 DCB: 40.02

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC13	RESC13	02/24/93	1910	12.46	40.01
02	PEM25	PEM25	02/24/93	2004	12.46	40.01
03	AR166049	AR166049	02/24/93	2058	12.46	40.01
04	AR122127	AR122127	02/24/93	2152	12.46	40.02
05	AR123227	AR123227	02/24/93	2246	12.46	40.02
06	AR124249	AR124249	02/24/93	2340	12.46	40.02
07	AR124849	AR124849	02/25/93	0033	12.46	40.02
08	AR125449	AR125449	02/25/93	0127	12.47	40.03
09	TOXAPH27	TOXAPH27	02/25/93	0221	12.46	40.02
10	INDAL19	INDAL19	02/25/93	0315	12.46	40.01
11	INDBL19	INDBL19	02/25/93	0409	12.46	40.03
12	INDAM83	INDAM83	02/25/93	0503	12.46	40.02
13	INDBM83	INDBM83	02/25/93	0557	12.46	40.02
14	INDAH19	INDAH19	02/25/93	0650	12.46	40.02
15	INDBH19	INDBH19	02/25/93	0744	12.47	40.03
16	PIBLK79	PIBLK79	02/25/93	0839	12.46	40.01
17	PEM27	PEM27	02/25/93	0938	12.47	40.02
18	PIBLK91	PIBLK91	03/02/93	1915	12.45	40.00
19	PEM33	PEM33	03/02/93	2009	12.45	40.00
20	ZZZZZ	0223-B01	03/02/93	2103		
21	ZZZZZ	0196005	03/02/93	2157		
22	ZZZZZ	0196019MSD	03/02/93	2251		
23	ZZZZZ	0208-B05	03/02/93	2345		
24	ZZZZZ	0142001	03/03/93	0039		
25	ZZZZZ	0206-B01	03/03/93	0133		
26	ZZZZZ	0142003	03/03/93	0227		
27	ZZZZZ	0142005	03/03/93	0320		
28	ZZZZZ	0142007	03/03/93	0414		
29	ZZZZZ	0142010	03/03/93	0508		
30	ZZZZZ	0142005MSB	03/03/93	0602		
31	ZZZZZ	0142005MSBX	03/03/93	0656		
32	ZZZZZ	0142005STD	03/03/93	0750		

QC LIMITS:

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

Instrument ID: HP58901A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.46 DCB: 40.02

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PIBLK93	PIBLK93	03/03/93	0843	12.45	40.00
02	INDBM91	INDBM91	03/03/93	1036	12.46	40.00
03	INDAM91	INDAM91	03/03/93	1129	12.44	39.98
04	ZZZZZ	0142005MS	03/03/93	1302		
05	ZZZZZ	0142005MSD	03/03/93	1423		
06	ZZZZZ	0142005STD	03/03/93	1516		
07	AR166053	AR166053	03/03/93	1628	12.46	39.99
08	AR124253	AR124253	03/03/93	1721	12.44	39.98
09	AR124853	AR124853	03/03/93	1815	12.45	39.98
10	AR125453	AR125453	03/03/93	1908	12.45	39.99
11	ZZZZZ	0203-B05	03/03/93	2022		
12	PIBLK95	PIBLK95	03/03/93	2116	12.45	40.00
13	PEM35	PEM35	03/03/93	2304	12.45	40.00
14	ZZZZZ	0057022	03/03/93	2358		
15	ZZZZZ	0196019	03/04/93	0052		
16	ZZZZZ	0169019MS	03/04/93	0146		
17	ZZZZZ	0196006	03/04/93	0240		
18	ZZZZZ	0196007	03/04/93	0334		
19	ZZZZZ	0196015	03/04/93	0427		
20	ZZZZZ	0196015	03/04/93	0521		
21	ZZZZZ	HEXANE	03/04/93	0615		
22	ZZZZZ	0196017	03/04/93	0709		
23	PIBLK97	PIBLK97	03/04/93	0857	12.45	40.00
24	INDAM93	INDAM93	03/04/93	0951	12.45	39.99
25	INDBM93	INDBM93	03/04/93	1045	12.45	39.99
26	ZZZZZ	0223-B05	03/04/93	1144		
27	ZZZZZ	0196016	03/04/93	1339		
28	ZZZZZ	0196016	03/04/93	1444		
29	ZZZZZ	HEXANE	03/04/93	1538		
30	PBLK85	0203-B02	03/04/93	1637	12.43	39.95
31	FB020193	0060036	03/04/93	1731	12.42	39.94
32	CS64MSB	0060035MSB	03/04/93	1824	12.42	39.94

QC LIMITS:

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 02/24/93 02/25/93

Instrument ID: HP58901A

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.46 DCB: 40.02

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ	0060035MSBX	03/04/93	1919		
02	PIBLK99	PIBLK99	03/04/93	2118	12.43	39.95
03	PEM37	PEM37	03/04/93	2213	12.42	39.94
04	QCCKSTD	0060035STD	03/04/93	2306	12.42	39.94
05	PBLK82	0202-B03	03/04/93	2359	12.42	39.94
06	CS64DL	0060035DL	03/05/93	0053	0.00*	0.00*
07	CS64MS	0060035MS	03/05/93	0146	12.42	0.00*
08	CS64MSD	0060035MSD	03/05/93	0239	12.42	0.00*
09	ZZZZZ	0196017MS	03/05/93	0332		
10	ZZZZZ	0196017MSD	03/05/93	0425		
11	ZZZZZ	HEXANE	03/05/93	0518		
12	PIBLK01	PIBLK01	03/05/93	0705	12.42	39.95
13	INDAM95	INDAM95	03/05/93	0758	12.42	39.95
14	INDBM95	INDBM95	03/05/93	0852	12.43	39.95
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QC LIMITS:

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/02/93 02/03/93

Instrument ID: HP58905B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.94 DCB: 40.56

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCB8	RESCB8	02/02/93	1523	7.93	40.55
02	PEMH2	PEMH2	02/02/93	1617	7.94	40.56
03	AR1660C4	AR1660C4	02/02/93	1711	7.94	40.56
04	AR1221C1	AR1221C1	02/02/93	1805	7.94	40.56
05	AR1232C1	AR1232C1	02/02/93	1859	7.94	40.56
06	AR1242C4	AR1242C4	02/02/93	1952	7.94	40.56
07	AR1248C4	AR1248C4	02/02/93	2046	7.94	40.56
08	AR1254C4	AR1254C4	02/02/93	2140	7.94	40.56
09	TOXAPHC1	TOXAPHC1	02/02/93	2233	7.94	40.56
10	INDALB9	INDALB9	02/02/93	2327	7.94	40.56
11	INDBLB9	INDBLB9	02/03/93	0021	7.94	40.56
12	INDAME6	INDAME6	02/03/93	0114	7.94	40.56
13	INDBME6	INDBME6	02/03/93	0208	7.94	40.56
14	INDAHB8	INDAHB8	02/03/93	0302	7.94	40.56
15	INDBHB8	INDBHB8	02/03/93	0355	7.94	40.56
16	PIBLKH9	PIBLKH9	02/03/93	0449	7.94	40.55
17	PEMH3	PEMH3	02/03/93	0543	7.93	40.55
18	PIBLKI8	PIBLKI8	02/10/93	1617	7.92	40.51
19	PEMH8	PEMH8	02/10/93	1710	7.93	40.53
20	ZZZZZ	0108001	02/10/93	1910		
21	ZZZZZ	0108001MS	02/10/93	2004		
22	ZZZZZ	0108001MSD	02/10/93	2058		
23	ZZZZZ	0108001MSB	02/10/93	2151		
24	ZZZZZ	0108001MSBX	02/10/93	2245		
25	ZZZZZ	0060021STD	02/10/93	2339		
26	ZZZZZ	0060021STDX	02/11/93	0032		
27	ZZZZZ	0060035MSB	02/11/93	0126		
28	ZZZZZ	0060035MSBX	02/11/93	0220		
29	ZZZZZ	0060035STD	02/11/93	0314		
30	PIBLKI9	PIBLKI9	02/11/93	0501	7.94	40.54
31	INDAMF1	INDAMF1	02/11/93	0555	7.94	40.54
32	INDBMF1	INDBMF1	02/11/93	0648	7.94	40.54

QC LIMITS:
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/02/93 02/03/93

Instrument ID: HP58905B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.94 DCB: 40.56

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ	0128-B01	02/11/93	0742		
02	ZZZZZ	0201-B04	02/11/93	0836		
03	ZZZZZ	0203-B01	02/11/93	0933		
04	PBLK82	0202-B03	02/11/93	1027	7.93	40.53
05	ZZZZZ	0201-B01	02/11/93	1123		
06	FB020193	0060036	02/11/93	1216	7.94	40.54
07	ZZZZZ	0060029	02/11/93	1310		
08	ZZZZZ	0060021MSB	02/11/93	1403		
09	ZZZZZ	0060021MSBX	02/11/93	1500		
10	PIBLKJ1	PIBLKJ1	02/11/93	1647	7.95	40.55
11	PEMH9	PEMH9	02/11/93	1740	7.95	40.55
12						
13						
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QC LIMITS:

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

PESTICIDE ANALYTICAL SEQUENCE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

Instrument ID: HP58905B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.87 DCB: 40.48

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESCC3	RESCC3	02/18/93	2105	7.87	40.48
02	PEMI8	PEMI8	02/18/93	2159	7.86	40.48
03	AR1660D1	AR1660D1	02/18/93	2252	7.86	40.48
04	AR1221C5	AR1221C5	02/18/93	2346	7.87	40.47
05	AR1232C5	AR1232C5	02/19/93	0040	7.87	40.48
06	AR1242D1	AR1242D1	02/19/93	0134	7.87	40.48
07	AR1248D1	AR1248D1	02/19/93	0228	7.87	40.48
08	AR1254D1	AR1254D1	02/19/93	0322	7.87	40.48
09	TOXAPHC5	TOXAPHC5	02/19/93	0416	7.87	40.48
10	INDALC4	INDALC4	02/19/93	0510	7.86	40.48
11	INDBLC4	INDBLC4	02/19/93	0603	7.87	40.48
12	INDAMF6	INDAMF6	02/19/93	0657	7.87	40.48
13	INDBMF6	INDBMF6	02/19/93	0751	7.87	40.48
14	INDAHC3	INDAHC3	02/19/93	0845	7.87	40.48
15	INDBHC3	INDBHC3	02/19/93	0939	7.87	40.48
16	PIBLKJ7	PIBLKJ7	02/19/93	1033	7.87	40.48
17	PEMI9	PEMI9	02/19/93	1126	7.87	40.48
18	PIBLKJ8	PIBLKJ8	02/19/93	1946	7.85	40.47
19	PEMJ1	PEMJ1	02/19/93	2040	7.87	40.48
20	ZZZZZ	0060021STD	02/19/93	2141		
21	ZZZZZ	0060021STDX	02/19/93	2254		
22	ZZZZZ	0060021MSB	02/19/93	2348		
23	ZZZZZ	0060021MSBX	02/20/93	0042		
24	ZZZZZ	0060035MSB	02/20/93	0136		
25	ZZZZZ	0060035MSBX	02/20/93	0229		
26	QCCKSTD	0060035STD	02/20/93	0323	7.88	40.50
27	PIBLKJ9	PIBLKJ9	02/20/93	0856	7.87	40.48
28	INDAMF7	INDAMF7	02/20/93	0949	7.88	40.49
29	INDBMF7	INDBMF7	02/20/93	1045	7.88	40.49
30	PIBLKL1	PIBLKL1	02/26/93	0913	7.88	40.47
31	PEMJ7	PEMJ7	02/26/93	1100	7.88	40.47
32	ZZZZZ	0060027	02/26/93	1154		

QC LIMITS:

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

Instrument ID: HP58905B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.87 DCB: 40.48

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ZZZZZ	0060028	02/26/93	1248		
02	ZZZZZ	0060028	02/26/93	1342		
03	ZZZZZ	HEXANE	02/26/93	1436		
04	ZZZZZ	0201-B01	02/26/93	1530		
05	ZZZZZ	0212-B07	02/26/93	1657		
06	ZZZZZ	0060030	02/26/93	1750		
07	ZZZZZ	0060031	02/26/93	1844		
08	ZZZZZ	HEXANE	02/26/93	1941		
09	ZZZZZ	0060030	02/26/93	2034		
10	PIBLKL2	PIBLKL2	02/26/93	2128	7.88	40.47
11	INDAMG3	INDAMG3	02/26/93	2316	7.88	40.47
12	INDBMG3	INDBMG3	02/27/93	0010	7.88	40.47
13	ZZZZZ	0060031	02/27/93	0104		
14	PBLK85	0203-B02	02/27/93	0157	7.88	40.47
15	CS64MSB	0060035MSB	02/27/93	0251	7.88	40.47
16	CMW31DL	0060032DL	02/27/93	0345	0.00*	0.00*
17	CMW31	0060032	02/27/93	0439	7.88	40.47
18	CS49DL	0060033DL	02/27/93	0533	0.00*	0.00*
19	CS49	0060033	02/27/93	0627	7.88	0.00*
20	CS53DL	0060034DL	02/27/93	0720	0.00*	0.00*
21	CS53	0060034	02/27/93	0814	0.00*~~7.83~~	0.00*
22	PIBLKL3	PIBLKL3	02/27/93	1002	7.87	40.47
23	PEMJ8	PEMJ8	02/27/93	1056	7.88	40.47
24	CS64DL	0060035DL	02/27/93	1149	0.00*	0.00*
25	CS64	0060035	02/27/93	1242	7.88	0.00*
26	ZZZZZ	HEXANE	02/27/93	1336		
27	CS64MS	0060035MS	02/27/93	1429	7.88	0.00*
28	ZZZZZ	HEXANE	02/27/93	1522		
29	CS64MSD	0060035MSD	02/27/93	1615	7.87	0.00*
30	ZZZZZ	HEXANE	02/27/93	1708		
31	PIBLKL4	PIBLKL4	02/27/93	1801	7.87	40.46
32	INDAMG4	INDAMG4	02/27/93	1947	7.88	40.47

QC LIMITS:
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 02/18/93 02/19/93

Instrument ID: HP58905B

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.87 DCB: 40.48

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	INDBMG4	INDBMG4	02/27/93	2041	7.88	40.47
02	PIBLKL5	PIBLKL5	03/01/93	1720	7.88	40.48
03	PEMJ9	PEMJ9	03/01/93	1815	7.89	40.48
04	AR1660D2	AR1660D2	03/01/93	1953	7.88	40.47
05	AR1242D2	AR1242D2	03/01/93	2055	7.88	40.47
06	AR1248D2	AR1248D2	03/01/93	2149	7.88	40.47
07	AR1254D2	AR1254D2	03/01/93	2243	7.88	40.47
08	ZZZZZ	0206-B01	03/01/93	2350		
09	ZZZZZ	0142001	03/02/93	0044		
10	ZZZZZ	0142003	03/02/93	0137		
11	ZZZZZ	0142005	03/02/93	0231		
12	ZZZZZ	0142005MS	03/02/93	0325		
13	ZZZZZ	0142005MSD	03/02/93	0419		
14	ZZZZZ	0142005MSB	03/02/93	0513		
15	PIBLKL6	PIBLKL6	03/02/93	0700	7.87	40.46
16	INDAMG5	INDAMG5	03/02/93	0754	7.87	40.46
17	INDBMG5	INDBMG5	03/02/93	0848	7.87	40.47
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QC LIMITS:

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

9A
PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Florisil Cartridge Lot Number: FLOF12501 Date of Analysis: 06/18/92

GC Column(1): RTX-35 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	10	9.3	93	80-120
gamma-BHC (Lindane)	10	8.3	83	80-120
Heptachlor	10	9.2	92	80-120
Endosulfan I	10	9.6	96	80-120
Dieldrin	20	20	100	80-120
Endrin	20	19	95	80-120
4,4'-DDD	20	19	95	80-120
4,4'-DDT	20	18	90	80-120
Methoxychlor	100	90	90	80-120
Tetrachloro-m-xylene	10	9.3	93	80-120
Decachlorobiphenyl	20	20	100	80-120

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

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CMW31DL	0060032DL	02/18/93	02/27/93
02	CMW31	0060032	02/18/93	02/27/93
03	CS49DL	0060033DL	02/18/93	02/27/93
04	CS49	0060033	02/20/93	02/27/93
05	CS53DL	0060034DL	02/20/93	02/27/93
06	CS53	0060034	02/20/93	02/27/93
07	CS64	0060035	02/20/93	02/27/93
08				
09				
10				
11				
12				
13				
14				
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16				
17				
18				
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21				
22				
23				

9A

PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Florisil Cartridge Lot Number: FLOF12501 Date of Analysis: 06/18/92

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	10	9.3	93	80-120
gamma-BHC (Lindane)	10	8.3	83	80-120
Heptachlor	10	9.2	92	80-120
Endosulfan I	10	9.6	96	80-120
Dieldrin	20	20	100	80-120
Endrin	20	19	95	80-120
4,4'-DDD	20	19	95	80-120
4,4'-DDT	20	18	90	80-120
Methoxychlor	100	90	90	80-120
Tetrachloro-m-xylene	10	9.3	93	80-120
Decachlorobiphenyl	20	20	100	80-120

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

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK82	0202-B03	02/11/93	03/04/93
02	FB020193	0060036	02/11/93	03/04/93
03	QCCKSTD	0060035STD	02/20/93	03/04/93
04	PBLK85	0203-B02	02/27/93	03/04/93
05	CS64MSB	0060035MSB	02/27/93	03/04/93
06	CS64DL	0060035DL	02/27/93	03/05/93
07	CS64MS	0060035MS	02/27/93	03/05/93
08	CS64MSD	0060035MSD	02/27/93	03/05/93
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				

9B
PESTICIDE GPC CALIBRATION

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GPC Column: SX-3 Calibration Date: 02/04/93 04 2/3/12

GC Column(1): RTX-35 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	0.020	0.018	90	80-110
Heptachlor	0.020	0.018	90	80-110
Aldrin	0.020	0.020	100	80-110
Dieldrin	0.040	0.039	98	80-110
Endrin	0.040	0.035	88	80-110
4,4'-DDT	0.040	0.039	98	80-110

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

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CMW31DL	0060032DL	02/18/93	02/27/93
02	CMW31	0060032	02/18/93	02/27/93
03	CS49DL	0060033DL	02/18/93	02/27/93
04	CS49	0060033	02/20/93	02/27/93
05	CS53DL	0060034DL	02/20/93	02/27/93
06	CS53	0060034	02/20/93	02/27/93
07	CS64	0060035	02/20/93	02/27/93
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

9B
PESTICIDE GPC CALIBRATION

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

GPC Column: SX-3 Calibration Date: 02/~~13~~04/93 (04 switch)

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC	#	QC LIMITS
gamma-BHC (Lindane)	0.020	0.018	90		80-110
Heptachlor	0.020	0.018	90		80-110
Aldrin	0.020	0.020	100		80-110
Dieldrin	0.040	0.039	98		80-110
Endrin	0.040	0.035	88		80-110
4,4'-DDT	0.040	0.039	98		80-110

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

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	QCCKSTD	0060035STD	02/20/93	03/04/93
02	PBLK85	0203-B02	02/27/93	03/04/93
03	CS64MSB	0060035MSB	02/27/93	03/04/93
04	CS64DL	0060035DL	02/27/93	03/05/93
05	CS64MS	0060035MS	02/27/93	03/05/93
06	CS64MSD	0060035MSD	02/27/93	03/05/93
07				
08				
09				
10				
11				
12				
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14				
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19				
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24				
25				
26				

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CMW31DL 89

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060032DL Date(s) Analyzed: 02/18/93 02/27/93

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column(1):RTX-35 ID: 0.53 (mm) GC Column(2):DB-1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	28.24	28.17	28.31	9200.00		
Aroclor-1260	2	29.37	29.29	29.43	13000.00		
	3	31.29	31.21	31.35	13000.00		
COLUMN 1	4						
	5					12000.00	
	1	30.35	30.19	30.33	13000.00		
	2	32.23	32.14	32.28	5500.00		
	3	33.81	33.73	33.87	12000.00		
COLUMN 2	4						
	5					10000.00	20.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CMW31 190

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060032 Date(s) Analyzed: 02/18/93 02/27/93

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column(1):RTX-35 ID: 0.53 (mm) GC Column(2):DB-1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	28.24	28.17	28.31	6400.00		
Aroclor-1260	2	29.37	29.29	29.43	13000.00		
	3	31.29	31.21	31.35	10000.00		
COLUMN 1	4						
	5					9900.00	
	1	30.36	30.19	30.33	15000.00		
	2	32.24	32.14	32.28	2600.00		
	3	33.81	33.73	33.87	7800.00		
COLUMN 2	4						
	5					8400.00	17.8
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CS49DL 101

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060033DL Date(s) Analyzed: 02/18/93 02/27/93

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column(1):RTX-35 ID: 0.53 (mm) GC Column(2):DB-1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	28.25	28.17	28.31	30000.00		
Aroclor-1260	2	29.38	29.29	29.43	54000.00		
	3	31.30	31.21	31.35	24000.00		
COLUMN 1	4						
	5					36000.00	
	1	30.28	30.19	30.33	24000.00		
	2	32.23	32.14	32.28	8100.00		
	3	33.81	33.73	33.87	19000.00		
COLUMN 2	4						
	5					17000.00	111.8
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO. 192

CS49

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060033 Date(s) Analyzed: 02/20/93 02/27/93

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column(1):RTX-35 ID: 0.53 (mm) GC Column(2):DB-1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	28.26	28.17	28.31	13000.00		
Aroclor-1260	2	29.40	29.29	29.43	38000.00		
	3	31.31	31.21	31.35	14000.00		
COLUMN 1	4						
	5					22000.00	
	1	30.27	30.19	30.33	21000.00		
	2	32.23	32.14	32.28	6400.00		
	3	33.81	33.73	33.87	14000.00		
COLUMN 2	4						
	5					14000.00	57.1
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CS53DL

193

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060034DL Date(s) Analyzed: 02/20/93 02/27/93

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column(1):RTX-35 ID: 0.53 (mm) GC Column(2):DB-1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	28.25	28.17	28.31	140000.00		
Aroclor-1260	2	29.38	29.29	29.43	150000.00		
	3	31.30	31.21	31.35	150000.00		
COLUMN 1	4						
	5					150000.00	
	1	30.27	30.19	30.33	87000.00		
	2	32.24	32.14	32.28	43000.00		
	3	33.81	33.73	33.87	130000.00		
COLUMN 2	4						
	5					88000.00	70.4
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO. 194

CS53

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060034 Date(s) Analyzed: 02/20/93 02/27/93

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column(1):RTX-35 ID: 0.53 (mm) GC Column(2):DB-1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	28.27	28.17	28.31	120000.00		
Aroclor-1260	2	29.40	29.29	29.43	180000.00		
	3	31.34	31.21	31.35	160000.00		
COLUMN 1	4						
	5					150000.00	
	1	30.27	30.19	30.33	12000.00		
	2	32.24	32.14	32.28	4700.00		
	3	33.81	33.73	33.87	14000.00		
COLUMN 2	4						
	5					10000.00	1400.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CS64DL

195

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060035DL Date(s) Analyzed: 02/27/93 03/05/93

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column(1):DB-1701 ID: 0.53 (mm) GC Column(2):RTX-35 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	30.27	30.19	30.33	2300.00		
Aroclor-1260	2	32.23	32.14	32.28	1500.00		
	3	33.80	33.73	33.87	3700.00		
COLUMN 1	4						
	5					2500.00	
	1	28.02	27.97	28.11	2300.00		
	2	29.12	29.08	29.22	2900.00		
	3	30.96	30.92	31.06	3200.00		
COLUMN 2	4						
	5					2800.00	12.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CS64

196

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060035 Date(s) Analyzed: 02/20/93 02/27/93

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column(1):RTX-35 ID: 0.53 (mm) GC Column(2):DB-1701 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	28.25	28.17	28.31	2200.00		
Aroclor-1260	2	29.38	29.29	29.43	6000.00		
	3	31.29	31.21	31.35	4100.00		
COLUMN 1	4						
	5					4100.00	
	1	30.27	30.19	30.33	1600.00		
	2	32.23	32.14	32.28	920.00		
	3	33.80	33.73	33.87	2000.00		
COLUMN 2	4						
	5					1500.00	173.3
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

PBLK85

197

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0203-B02 Date(s) Analyzed: 02/27/93 03/04/93

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column(1):DB-1701 ID: 0.53 (mm) GC Column(2):RTX-35 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	11.49	11.41	11.55	11.00		
Aroclor-1248	2	13.54	13.45	13.59	12.00		
	3	14.18	14.11	14.25	42.00		
COLUMN 1	4						
	5					22.00	
	1	18.78	18.72	18.86	10.00		
	2	21.13	21.07	21.21	11.00		
	3	22.96	22.82	22.96	49.00		
COLUMN 2	4						
	5					24.00	9.1
	1	30.27	30.19	30.33	16.00		
Aroclor-1260	2	32.23	32.14	32.28	14.00		
	3	33.81	33.73	33.87	38.00		
COLUMN 1	4						
	5					22.00	
	1	28.02	27.97	28.11	26.00		
	2	29.13	29.08	29.22	29.00		
	3	30.97	30.92	31.06	29.00		
COLUMN 2	4						
	5					28.00	27.3
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

198

CS64MS

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060035MS Date(s) Analyzed: 02/27/93 03/05/93

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column(1):DB-1701 ID: 0.53 (mm) GC Column(2):RTX-35 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	30.27	30.19	30.33	1900.00		
Aroclor-1260	2	32.24	32.14	32.28	870.00		
	3	33.81	33.73	33.87	2700.00		
COLUMN 1	4						
	5					1800.00	
	1	28.02	27.97	28.11	1900.00		
	2	29.12	29.08	29.22	4800.00		
	3	30.96	30.92	31.06	4300.00		
COLUMN 2	4						
	5					3700.00	105.6
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CS64MSD 19

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060035MSD Date(s) Analyzed: 02/27/93 03/05/93

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column(1):DB-1701 ID: 0.53 (mm) GC Column(2):RTX-35 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	30.26	30.19	30.33	1600.00		
Aroclor-1260	2	32.23	32.14	32.28	860.00		
	3	33.80	33.73	33.87	2200.00		
COLUMN 1	4						
	5					1500.00	
	1	28.02	27.97	28.11	1500.00		
	2	29.13	29.08	29.22	2700.00		
	3	30.96	30.92	31.06	3800.00		
COLUMN 2	4						
	5					2600.00	73.3
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

CS64MSB 200

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060035MSB Date(s) Analyzed: 02/27/93 03/04/93

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column(1):DB-1701 ID: 0.53 (mm) GC Column(2):RTX-35 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	30.27	30.19	30.33	220.00		
Aroclor-1260	2	32.24	32.14	32.28	110.00		
	3	33.81	33.73	33.87	290.00		
COLUMN 1	4						
	5					200.00	
	1	28.02	27.97	28.11	260.00		
	2	29.12	29.08	29.22	260.00		
	3	30.96	30.92	31.06	300.00		
COLUMN 2	4						
	5					270.00	35.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

10B

PESTICIDE IDENTIFICATION SUMMARY FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

QCCKSTD 201

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060B SAS No.: SDG No.: B0060

Lab Sample ID: 0060035STD Date(s) Analyzed: 02/20/93 03/04/93

Instrument ID (1): HP58905B Instrument ID (2): HP58901A

GC Column(1):DB-1701 ID: 0.53 (mm) GC Column(2):RTX-35 ID: 0.53 (mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1242 COLUMN 1	1	10.07	9.99	10.13	220.00		
	2	11.50	11.41	11.55	220.00		
	3	13.54	13.45	13.59	240.00		
	4						
	5					220.00	
COLUMN 2	1	16.10	16.06	16.20	390.00		
	2	18.74	18.72	18.86	200.00		
	3	21.11	21.08	21.22	240.00		
	4						
	5					280.00	27.3
Aroclor-1260 COLUMN 1	1	30.28	30.19	30.33	270.00		
	2	32.25	32.14	32.28	130.00		
	3	33.83	33.73	33.87	330.00		
	4						
	5					240.00	
COLUMN 2	1	28.02	27.97	28.11	290.00		
	2	29.12	29.08	29.22	320.00		
	3	30.96	30.92	31.06	310.00		
	4						
	5					310.00	29.2
_____ COLUMN 1	1						
	2						
	3						
	4						
	5						
COLUMN 2	1						
	2						
	3						
	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes

an environmental testing company
200 Monroe Turnpike
Monroe, Connecticut 06468
(203) 261-4458
FAX (203) 268-5346

STANDARD CONCENTRATIONS (ng)

	Low	Mid	High
alpha-BHC	0.005	0.020	0.080
gamma-BHC	0.005	0.020	0.080
Heptachlor	0.005	0.020	0.080
Endosulfan I	0.005	0.020	0.080
Dieldrin	0.010	0.040	0.16
Endrin	0.010	0.040	0.16
4,4'DDD	0.010	0.040	0.16
4,4'DDT	0.010	0.040	0.16
Methoxychlor	0.050	0.2	0.80
Tetrachloro-m-Xylene	0.005	0.020	0.080
Decachlorobiphenyl	0.010	0.040	0.16
beta-BHC	0.005	0.020	0.080
delta-BHC	0.005	0.020	0.080
·ldrin	0.005	0.020	0.080
.eptachlor Epoxide	0.005	0.020	0.080
4,4'DDE	0.010	0.040	0.16
Endosulfan II	0.010	0.040	0.16
Endosulfan Sulfate	0.010	0.040	0.16
Endrin Ketone	0.010	0.040	0.16
Endrin Aldehyde	0.010	0.040	0.16
alpha-Chlordane	0.005	0.020	0.080
gamma-Chlordane	0.005	0.020	0.080
Tetrachloro-m-Xylene	0.005	0.020	0.080
Decachlorobiphenyl	0.010	0.040	0.16