16672

2 2 0370

IEA, Inc.
CASE: 2041_001(0)
SDG: 03098
COMPLETE DATA PACKAGE

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION 4 TAT

IEA, Inc. - Bill Scott
3000 Weston Pkwy
Cary, NC 27513
1-800-444-9919

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL SERVICES DIVISION
COLLEGE STATION ROAD
ATHENS, GEORGIA 30613

PROJ. NO.

PROJECT NAME: Saad Site - Croft Spring

SAMPLERS (Signature): H K Sewell

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Water/Wastewater: (Gal G (ext org, pest) (EP) (herb)	40 ml vial (VOA)	250 ml G (TOX)	P (Bact, TSS, Cl, Fl, SO4, etc)	1LG (phenol) (O&G) (grease)	1LP (met, hardy/TOC, COD, N, P, etc)	0.5-1LP (SP)	½ gal or 1LP (CN)	Soil/Sed/Bag: 8 oz G (ext org, pest, herb) (met) (EP)	4 oz G (VOA)	P or G (CN, S⁻, N, P, COD, etc)	8 oz G (ext org, pest, herb, VOA)	8 oz G (EP) (met, CN, S⁻, FP) (FP, BTU)	Waste	Misc	REMARKS/TAG NUMBERS
CS-25	3/3/95	1230		✓	Croft Spring	3		3														T4-04672, T4-04673 T4-04674
CS-26	3/3/95	1330		✓	Croft Spring	3		3														T4-04675, T4-04676 T4-04677
CS-27	3/3/95	1430		✓	Croft Spring	3		3														T4-04678, T4-04679 T4-04680
CS-28	3/3/95	1530		✓	Croft Spring	3		3														T4-04681, T4-04682 T4-04683
CS-29	3/3/95	1600		✓	Field Blank	3		3														T4-04684, T4-04685 T3-24881

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
H K Sewell	3/3/95 1600	Fed Ex # 4650 436502 5954				Large 04
	3/4/95 10:00	Bill Scott				

DISTRIBUTION: Original and Pink copies accompany sample shipment to laboratory. Pink copy retained by laboratory. Yellow copy returned by sampler. Blue copy extra copy as needed.

T4-2898

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION 4 TAT

IEA, Inc - Bill Scott
3000 Weston Pkwy
Cary, NC 27513
1-800-444-9919

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL SERVICES DIVISION
COLLEGE STATION ROAD
ATHENS, GEORGIA 30613

PROJ. NO.

PROJECT NAME: Saad Site - Croft Spring

SAMPLERS (Signature): [signature]

Circle/add Parameters Desired ( ) - Indicates Separate Containers

Water/Wastewater | Soil/Sed/Sldg | Waste | Misc

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	(Gal G (ext org, Pest) (EP) (herb) PCB)	40 ml vial (VOA)	250 ml G (TOX)	P (Bod, TSS, Cl, Fl, Spd, etc)	ILG (phenol, (VOAG) (EP))	ILP (met, hardy, etc, COD, N, P, etc)	0.5-ILP (EP)	½ oz ILP (CN)	Total Pet. HC (Diesel)	Total Pet. HC (Recov. HC)	8 oz G (ext org, pest, herb) (met) (EP)	4 oz G (VOA)	P or G (CN, 5", N, P, COD, etc)	8 oz G (ext org, pest, herb, VOA)	8 oz G (SP) (met, CN, 5", FP) (FP, STU)	REMARKS/TAG NUMBERS
CS-12	3/2/95	1600		✓	Croft Spring	3		3														T3-24882, T3-24884 T3-24884
CS-13	3/2/95	1300	✓		Croft Spring	1									1							T3-24890
CS-14	3/3/95	0830	✓		Croft Spring	1									1							T3-24803
CS-15	3/3/95	0830	✓		Croft Spring	1	1															T3-24802
[illegible]	3/3/95	0830	✓		Croft Spring	1	1															T3-24801
[illegible]	3/3/95	0830		✓	Croft Spring	3		3														T4-04648, T4-04649 T4-04650
CS-17	3/3/95	0830		✓	Croft Spring	3		3														T4-04651, T4-04652 T4-04653
CS-18	3/3/95	0830	✓		Croft Spring	1					1											T3-24893
CS-19	3/3/95	0830	✓		Croft Spring	1					1											T3-24892
CS-20	3/3/95	0930		✓	Croft Spring	3		3														T4-04663, T4-04664 T4-04665
CS-21	3/3/95	1030	✓		Croft Spring	1										1						T3-24804
CS-22	3/3/95	1030	✓		Croft Spring	1										1						T3-24805
CS-23	3/3/95	1030		✓	Croft Spring	3		3														T4-04666, T4-04667 T4-04668
CS-24	3/3/95	1130		✓	Croft Spring	3		3														T4-04669, T4-04670 T4-04671

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
[signature]	[illegible]	[illegible] 4365025954				[illegible]
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
	3/4/95 10:00	[signature]				

DISTRIBUTION: Original and Pink copies accompany sample shipment to laboratory. Pink copy retained by laboratory. Yellow copy retained by sampler. Blue copy extra copy as needed.

T4-2897

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 4 TAT

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL SERVICES DIVISION
COLLEGE STATION ROAD
ATHENS, GEORGIA

IEA, Inc - Bill Scott
3000 Weston Pkwy
Cary, NC 27513
1-800-444-9919

PROJ. NO.:

PROJECT NAME: Saad Site : Croft Spring Sampling

SAMPLERS (Signature): Leanna Mayo

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Water/Wastewater: (Gal G (Nut org, Pest) PCB)	40 ml vial (VOA)	250 ml G (TOX)	P (Bact, Tox, Cl, Fl, SO4, etc)	S.G. (Semivol (O&G))	N.P. (met, hard)	0.5-N.P (SP)	N gal or N.P (CN)	8 oz G (Bact org, pest, herb) (met) (SP)	4 oz G (VOA)	P or G (CN, S⁻, N, P, COD, etc)	8 oz G (Bact org, pest, herb) (VOA)	8 oz G (SP) (met, CN, S⁻, FP) (PP, BTU)	Soil/Sed/Sludge	Waste	Misc	REMARKS/TAG NUMBERS
CS-01	3/2/95	0855		✓	Croft Spring	3		3															T3-24851, 24852, 24854
CS-02	3/2/95	0955		✓	Croft Spring	3		3															T3-24853, 24855 24856
CS-03	3/2/95	1055		✓	Croft Spring	3		3															T3-24857, 24858, 24859
CS-04	3/2/95	1155		✓	Croft Spring	3		3															T3-24860, 24861, 24862
CS-05	3/2/95	1300		✓	Croft Spring	3		3															T3-24863, 24864, 24865
CS-06	3/2/95	1400		✓	Croft Spring	3		3															T3-24866, 24867, 24869
CS-06A	3/2/95	1400		✓	Croft Spring	3		3															T3-24873, 24874, 24875
CS-07	3/2/95	1345		✓	Croft Spring Field Blank	3		3															T3-24876, 24877, 24878
CS-08	3/2/95	1500		✓	Croft Spring	3		3															T3-24879, 24880, 24881
CS-09	3/1/95	1330		✓	Trip Blank	2		2															T4-04692, 04693
CS-10	3/2/95	0900	✓		Croft Spring	1	1																T3-24888
CS-10A	3/2/95	0900	✓		Croft Spring	1	1																T3-24889
CS-11	3/2/95	0900	✓		Croft Spring	1				1													T3-24887
CS-11A	3/2/95	0900	✓		Croft Spring	1				1													T3-24885

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
[illegible]	3/2/95	[illegible] 4350259 54				temp 4°C
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
	3/4/95 10:00	[illegible]				

DISTRIBUTION: Original and Pink copies accompany sample shipment to laboratory. Pink copy retained by laboratory. Yellow copy retained by sampler. Blue copy extra copy as needed.

T4-2909

SDG NARRATIVE VOLATILE FRACTION

CASE: 2041-001 (O) SDG NO.: 03098 METHOD: 6/91 SOW

SAMPLES: One (1) Water Sample and One (1) Holding Blank

This case was closed on March 04, 1995. These samples were received at Industrial and Environmental Analysts, Inc. (IEA). Each sample was assigned a 9-character "IEA" lab identification number (lab ID) and a client abbreviated sample ID for simplicity in forms generation. This package makes reference to these ID's as listed on the IEA Assigned Number Index. All analyses were performed according to the EPA 6/91 SOW and meet the requirements of the IEA Quality Assurance Program. Please see the enclosed data package for your results and Chain of Custody (COC) documentation.

The 6/91 SOW calls for the Laboratory Control Sample (LCS) to be calculated in nanograms. The nanogram sample amount on the Form 3LCA is calculated from the concentration of the analyte as reported on the raw data and rounded using EPA rounding rules. The percent recovery is then calculated using the "Amount Recovered" values as displayed on the Form 3LCA.

There is an air peak that is common to all of the volatile analyses and a solvent peak common to some volatile analyses. These peaks are present at the beginning of the Reconstructed Ion Chromatograms (RIC) and are labeled.

The form 6 and 7 indicate that the minimum Relative Response Factor (RRF) must be 0.010 and the maximum percent Relative Standard Deviation (%RSD) and/or percent difference (%D) must be less than 40.0%. However, the form does not indicate the exceptions which are the ketones and 1,2-Dibromo-3-chloropropane. Table D-5 VOA section D page 47 of the 6/91 SOW states, "At the present time, the Agency has not set minimum RRF or %RSD criteria for Acetone, 2-Butanone, 1,2-Dibromo-3-chloropropane, 2-Hexanone, and 4-Methyl-2-pentanone."

The "J" flag used on the Form I VOA designates an estimated concentration between the Contract Required Quantitation Limit (CRQL) and 0.1 μg/L for water samples, not accounting for dilution of the sample prior to analysis. This flag is also used on the Form I VOA-TIC to indicate an estimated amount for all non-target concentrations.

The "B" flag used on the Form I VOA and/or the Form I VOA-TIC indicates that this compound was present in the associated method blank.

The "M" flag used on the data system report form designates that a manual integration was required to provide an accurate quantification of that analyte. Manual integrations have been initialled and dated by the analyst.

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

Brian D. Neptune 03/09/95
Brian D. Neptune
Lead Analyst, GC/MS Final Review
IEA, Inc.

Post Office Box 12846
Research Triangle Park, NC 27709

Phone 919·677·0090
Fax 919·677·0427

IEA
An Aquarion Company

SDG NARRATIVE SEMIVOLATILE FRACTION

2 2 0375

IEA Project No.: 2041-001(0) SDG NO.: 03098 Method: SOW 6/91

SAMPLES: Four (4) Water

This case was closed on March 04, 1995. All samples were received at IEA, each sample was assigned a 9-character "IEA" Lab ID and a client abbreviated sample ID for simplicity in forms generation. This package makes reference to these ID's as listed on the IEA Assigned Number Index.

Analyses were performed according to approved methodologies and CLP methodologies when applicable and meet the requirements of the IEA Quality Assurance Program. Please see the enclosed data package for your results with copies of all Chain of Custody documentation.

"J" flags have been used to denote compound results which are between the Contract Required Quantitation Limit (CRQL) and 1.0 ug/L. For the semivolatile analysis a 2.0 ul injection was used, therefore the raw data is reported in nanograms (ng).

Manual identification was required for some coeluting isomers and/or retention time shifts. This is noted for all standards and samples with the (M) flag identifier on the quantitation report.

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

03/09/95

Cecil C. Smith III
GC/MS SV Data Reviewer

Monroe, Connecticut 203·261·4458
Sunrise, Florida 305·846·1730
Schaumburg, Illinois 708·705·0740
N. Billerica, Massachusetts 508·667·1400
Whippany, New Jersey 201·428·8181

printed on recycled paper

FRACTION NARRATIVE - PESTICIDES

Case: 2041-001(0) SDG No: 03098 Contract No: SOW 6/91

Four water samples were received for pesticide analysis by GC EPA-CLP 6/91 statement of work.

The RTX-35 column used as one of the analytical columns is equivalent to the DB-608 column specified in the SOW. The forms used the following modified "Lab File ID" from the filename on the raw data: 2 digits, no zero, 3 digits, no 95 or underscore, and the filename extension of .D rather than .RES. These filenames were used due to software constraints. Please see the raw data for further comments.

Two significant figures were reported for the "calculated amount" on Form VII Pest-1 and -2. All of the initial pesticide chromatograms were missing the scaling factor; however, the scaling factor (in mV scale) appeared for the re-plotted chromatograms. A few of the single component analytes in the Resolution Check Mixtures, Performance Evaluation Mixtures and the Individual Standard Mixtures A and B Low had peak heights of less than 10% of full scale.

The recovery for Tetrachlor-m-xylene was 1% below the advisory limits on the DB-1701 column for the LCS.

Instrument blanks PIBLK1I, PIBLK7Z and PIBLK1T each contained one peak that was above the method limits. Aldrin was the only compound reported in any of the samples. This compound is suspected to be a false positive due to the concentration difference between the primary and confirmation columns.

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

Katrina L. Travis 3/17/95

Katrina L. Travis 03/17/95
GC Dept. Supervisor
IEA, Inc.

IEA Assigned Number Index

Organic Analysis

Case No.: 2041-001(0)

SDG No.: 03098

IEA Lab Sample Number	Sample Number	Abbreviated Sample Number
9503098-01A	CS-10	CS10
9503098-02A	CS-10A	CS10A
9503098-03A	CS-15	CS15
9503098-04A	CS-15A	CS15A
9503098-05A	CS-29 Field Blank	CS29
9503098-21A	HB03098	VSBLKKW

IEA Corporation Internal Chain of Custody 2 2 0379

Login By: BJ Date Received: 03/04/95 Time Received:

Workorder #	Case #	Department	Location
95-03-098	2041_001_0RP		R18

Storage Return			Removed To/Reason					
Date	Time	By	Date	Time	Frac	Location	Code	By
			3/7/95	0900	01B-04B	S. Prep	EX	[illegible]
3/7/95	1600	[illegible]	3/7/95	1630	01A-04A	S. Prep	EX	KB
3/7/95	2330	KB						

Frac	Matrix	Sample ID
01A	WATER	CS-10
01B	WATER	CS-10
02A	WATER	CS-10A
02B	WATER	CS-10A
03A	WATER	CS-15
03B	WATER	CS-15
04A	WATER	CS-15A
04B	WATER	CS-15A

BJ 3/12/95

Applicable Codes:

AN=Analyze	LI=Login	DG=Digestion	AT=Autosampler
TR=Transfer	SC=Screen	EX=Extraction	
DI=Dispose	ST=Storage	DW=Dry Weight	

Verified by: BJ Date: 3/12/95

IEA Corporation Internal Chain of Custody 2 2 0300

Login By: BS Date Received: 03/04/95 Time Received:

Workorder #	Case #	Department	Location
95-03-098	2041_001_0RP		R1

Storage Return			Removed To/Reason					
Date	Time	By	Date	Time	Frac	Location	Code	By
			3/7/95	1600	5A	DWC	AN	DWC
3/7/95	1630	DWC	3/7/95	1700	5B	DWC	AN	DWC
3/7/95	1730	DWC	3/7/95	1800	5C	DWC	AN	DWC
3/7/95	1830	DWC	3/7/95	2330	21A	DWC	AN	DWC
3/7/95	2400	DWC	3/8/95	0005	21B	DWC	AN	DWC
3/8/95	0015	DWC						

Frac	Matrix	Sample ID
05A	WATER	CS-29 Field Blank
05B	WATER	CS-29 Field Blank
05C	WATER	CS-29 Field Blank
21A	WATER	HB03098
21B	WATER	HB03098
21C	WATER	HB03098

Applicable Codes:

AN=Analyze	LI=Login	DG=Digestion	AT=Autosampler
TR=Transfer	SC=Screen	EX=Extraction	
DI=Dispose	ST=Storage	DW=Dry Weight	

Verified by: [signature] Date: 3/8/95

IEA, Inc. GC-GC/MS Extract Chain-of-Custody

2 2 0301

Fraction: BNA/ Pesticide/ Other
(Circle One)

EPA ID: 95030980 1

Case No.: 2041-001(0)

SAMPLE OUT				SAMPLE IN			
Date	Time	Code	Init.	Date	Time	Location	Init.
							3/8/95
3/8/95	1000	TR	[illegible]	3/8/95	1020	R10	[illegible]
3/8/95	1020	AN	[illegible]	3/8/95	1550	R10	[illegible]

Codes:

EX = Extraction
FL = Florisil
ST = Storage
SC = Screening
DI = Disposal

CO = Concentration
GP = GPC Cleanup
TR = Transfer
AN = Analysis

Verified by: [signature] Date: 3/08/95

Form: GEF00100.NC

IEA, Inc. GC-GC/MS Extract Chain-of-Custody

2 2 0332

F· ·ion: BNA/ Pesticide/ Other
(Circle One)

EPA ID: 950309802

Case No.: 2041-001(0)

SAMPLE OUT				SAMPLE IN			
Date	Time	Code	Init.	Date	Time	Location	Init.
							3/8/95
3/8/95	1000	TR	[illegible]	3/8/95	1020	R10	GSS
3/8/95	1020	AN	GSS	3/8/95	1550	R10	GSS

Codes:

EX = Extraction	CO = Concentration
FL = Florisil	GP = GPC Cleanup
ST = Storage	TR = Transfer
SC = Screening	AN = Analysis
DI = Disposal	

Verified by: [illegible] Date: 3/08/95

Form: GEF00100.NC

IEA, Inc. GC-GC/MS Extract Chain-of-Custody

2 2 0383

Fr ·ion: BNA/ Pesticide/ Other
(Circle One)

EPA ID: 950309803

Case No.: 2041-001(0)

SAMPLE OUT				SAMPLE IN			
Date	Time	Code	Init.	Date	Time	Location	Init.
							3/8/95
3/8/95	1000	TR	[illegible]	3/8/95	1020	R10	555
3/8/95	1020	AN	555	3/8/95	1550	R10	055

Codes:

EX =	Extraction	CO =	Concentration
FL =	Florisil	GP =	GPC Cleanup
ST =	Storage	TR =	Transfer
SC =	Screening	AN =	Analysis
DI =	Disposal		

Verified by: [signature] Date: 3/08/95

Form: GEF00100.NC

IEA, Inc. GC-GC/MS Extract Chain-of-Custody

2 2 0304

Fraction: (BNA) Pesticide/ Other
(Circle One)

EPA ID: 950309804

Case No.: 2041-001(0)

SAMPLE OUT				SAMPLE IN			
Date	Time	Code	Init.	Date	Time	Location	Init.
3/8/95	1000	TR	[illegible]	3/8/95	1020	R10	655
3/8/95	1020	AN	655	3/8/95	1550	R10	655

3/8/95

Codes:
EX = Extraction
FL = Florisil
ST = Storage
SC = Screening
DI = Disposal
CO = Concentration
GP = GPC Cleanup
TR = Transfer
AN = Analysis

Verified by: David Morse Date: 3/08/95

Form: GEF00100.NC

2 2 0305

Contract Lab Protocol (CLP)
Organic Sample Preparation Log

Extraction of Water Samples for BNA's by Continous Extraction

IEA Sample #	Extractor Number	Volume Extracted (mls)	Surr. Volume (uls)	Matrix Spike Volume (uls)	Initial pH	Final pH	Final Extract Volume (mls)	Extraction Comments	GC/MS R10	Date Out	Test Code	File ID.	Comments
SBLK 27	D	1000	500	N/A	7.00	<2	1.0	Method Blank	prep				
SBLK 28	↓	↓	↓		7.00	↓	↓	Method Blank					
N/A	N/A	N/A	N/A		N/A	N/A	N/A	Matrix Spike					
↓	↓	↓	↓		↓	↓	↓	Matrix Spike Duplicate					
9503098 01	D	1000	500		7	<2	1.0						
02	↓	↓	↓		↓	↓	↓						
03													
04													
SLCS 27	↓	↓	↓	1000	↓	↓	↓		↓				

3/8/95

EPA Case #	2041-001(0)	Surrogate Lot #	SVCLP 263	Ext. Start	3/7/95		GC/MS Receipt	655	3/8/95
Test Name	CLP-BNA Extractions	Matrix Spike Lot #	SVCLP 224	Ext. End	3/8/95	MJ	GC/MS Completion		
Test Codes	ESVE_01 (ESVE-05)	MeCl-Solvent Lot #	81786	GC Screen			GC/MS Sec. Review		
Applicable SOP		Witness	R.L. 03-07-95	Prep. Sec. Review	3/8/95	SB			

IEA, Inc. Form# SPL00202.NC

Page # 52 of 100
IEA Logbook # SP13A

COPY
ORIGINAL IS FILED IN LOG _____

010

IEA, Inc. GC-GC/MS Extract Chain-of-Custody

2 2 0306

Fraction: BNA/ Pesticide/ Other
(Circle One)

EPA ID: 950309801

Case No.: 2041-001(0)

SAMPLE OUT				SAMPLE IN			
Date	Time	Code	Init.	Date	Time	Location	Init.
				3-7-95	21:15	R-16	KB
3/8/95	0815	FL	SB	3/8/95	1030	R16	SB
3/8/95	1050	TK	[illegible]	3/8/95	1100	R7	CT
3/8/95	1500	AN	CT	3/8/95	1520	R7	CT
3/8/95	1700	AN	CT	3/8/95	1720	R7	CT

Codes:

EX = Extraction
FL = Florisil
ST = Storage
SC = Screening
DI = Disposal
CO = Concentration
GP = GPC Cleanup
TR = Transfer
AN = Analysis

Verified by: [illegible] Date: 3/17/95

Form: GEF00100.NC

IEA, Inc. GC-GC/MS Extract Chain-of-Custody

Fraction: BNA/ Pesticide/ Other
(Circle One)

EPA ID: 950309802

Case No.: 2041-001(0)

SAMPLE OUT				SAMPLE IN			
Date	Time	Code	Init.	Date	Time	Location	Init.
				3-7-95	21:15	R-16	KS
3-8-95	0815	FL	SB	3-8-95	1030	R16	SB
3/8/95	1050	TR	[illegible]	3/8/95	1100	R7	CT
3/8/95	1500	AN	CT	3/8/95	1520	R7	CT
3/8/95	1700	AN	CT	3/8/95	1720	R7	CT

Codes:

EX = Extraction
FL = Florisil
ST = Storage
SC = Screening
DI = Disposal
CO = Concentration
GP = GPC Cleanup
TR = Transfer
AN = Analysis

Verified by: KS Date: 3/17/95

Form: GEF00100.NC

Fraction: BNA/ Pesticide/ Other
(Circle One)

EPA ID: 950309803

Case No.: 2041-001(0)

SAMPLE OUT				SAMPLE IN			
Date	Time	Code	Init.	Date	Time	Location	Init.
				3-7-95	21:15	R-16	KB
3-8-95	0815	FL	SB	3-8-95	1030	R16	SB
3/8/95	1050	TR	[illegible]	3/8/95	1100	R7	CT
3/8/95	1500	AN	CT	3/8/95	1520	R7	CT
3/8/95	1700	AN	CT	3/8/95	1720	R7	CT

Codes:

EX = Extraction
FL = Florisil
ST = Storage
SC = Screening
DI = Disposal
CO = Concentration
GP = GPC Cleanup
TR = Transfer
AN = Analysis

Verified by: KS Date: 3 / 17 / 95

Form: GEF00100.NC

IEA, Inc. GC-GC/MS Extract Chain-of-Custody 2 2 0309

Fraction: BNA/ Pesticide/ Other
(Circle One)

EPA ID: 950309804

Case No.: 2041-001(0)

SAMPLE OUT				SAMPLE IN			
Date	Time	Code	Init.	Date	Time	Location	Init.
				3-7-95	21:15	R-16	KB
3-8-95	0815	FL	SB	3-8-95	1030	R16	SB
3/8/95	1050	TR	[illegible]	3/8/95	1100	R7	CT
3/8/95	1500	AN	CT	3/8/95	1520	R7	CT
3/8/95	1700	AN	CT	3/8/95	1720	R7	CT

Codes:

EX = Extraction
FL = Florisil
ST = Storage
SC = Screening
DI = Disposal
CO = Concentration
GP = GPC Cleanup
TR = Transfer
AN = Analysis

Verified by: KJ Date: 3/17/95

Form: GEF00100.NC

Contract Lab Protocol (CLP)
Organic Sample Preparation Log

Extraction of Water Samples for Pesticides by Separatory Funnel Extraction

IEA Sample #	Volume Extracted (mls)	Surr. Volume (uls)	Matrix Spike Volume (uls)	Initial pH	Final Extract Volume (mls)	Extraction Comments witness KD	GC Comments
PBLK 66	1000	1000	N/A	7	2.0	Method Blank	
PBLK 67	↓	↓	↓	↓	↓	Method Blank	
NA	NA	NA	NA	NA	NA	Matrix Spike	
↓	↓	↓	↓	↓	↓	Matrix Spike Duplicate	
PLCS 66	1000	1000	N/A	7	2.0	1.0 ml OF PAC 95-088	
9503098 01	↓	↓	N/A	↓	↓		
02	↓	↓	↓	↓	↓		
03			↓	↓	↓		
04			↓	↓	↓		

KB 3/7/95

EPA Case #	2041-001(0)	Surrogate Lot #	PAC 95-089	Ext. Start	3-7-95	KB	GC Receipt	3/8/95	RPC
Test Name	CLP-Pesticide Extractions	Matrix Spike Lot #	N/A	Ext. End	3-7-95	KB	GC Completion		
Test Codes	EPE_01 EPE-03	Hexane-Solvent Lot #	BH-510	Florisil Lot #	159AC		GC Sec. Review		
				Sodium Sulfate Lot #					
Applicable SOP		MeCl-Solvent Lot #	BI-786	Prep. Sec. Review	3/8/95				

IEA, Inc. Form# SPL00301.NC

COPY ORIGINAL IS FILED IN LOG _____

Page # 78 of 100

IEA Logbook # SP14

017

IEA Assigned Number Index

Organic Analysis

Case No.: 2041-001(0)

SDG No.: 03098

IEA Lab Sample Number	Sample Number	Abbreviated Sample Number	pH
9503098-01A	CS-10	CS10	N/A
9503098-02A	CS-10A	CS10A	N/A
9503098-03A	CS-15	CS15	N/A
9503098-04A	CS-15A	CS15A	N/A
9503098-05A	CS-29 Field Blank	CS29	1
9503098-21A	HB03098	VSBLKKW	1

2LCA
LOW CONC. WATER VOLATILE SURROGATE RECOVERY

2 2 0392

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

	CLIENT SAMPLE NO.	BFB %REC #	OTHER	TOT OUT
01	VBLKKV	93		0
02	VLCSKV	97		0
03	CS29	88		0
04	VBLKKW	95		0
05	VSBLKKW	97		0
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

QC LIMITS
%REC
(BFB) = Bromofluorobenzene (80-120)

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

FORM II LCV 6/91

3LCA

LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCSKV

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: VLCSKV LCS Lot No.: A002270

Lab File ID: 0307K04.D Date Analyzed: 03/07/95

Purge Volume: 25 (mL) Dilution Factor: 1.0

LCS Aliquot: 10 (uL)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Vinyl Chloride	120	140	117	60-140
1,2-Dichloroethane	120	140	117	60-140
Carbon Tetrachloride	120	150	120	60-140
1,2-Dichloropropane	120	150	120	60-140
cis-1,3-Dichloropropene	120	150	120	60-140
Trichloroethene	120	150	120	60-140
1,1,2-Trichloroethane	120	160	130	60-140
Benzene	120	130	108	60-140
Bromoform	120	150	120	60-140
Tetrachloroethene	120	130	108	60-140
1,2-Dibromoethane	120	150	120	60-140
1,4-Dichlorobenzene	120	150	120	60-140

Column to be used to flag LCS recovery with an asterisk
* Values outside of QC limits

LCS Recovery: 0 outside limits out of 12

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKKV

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: VBLKKV Date Analyzed: 03/07/95

Lab File ID: 0307K03.D Time Analyzed: 0948

Instrument ID: MSD11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCSKV	VLCSKV	0307K04.D	1029
02	CS29	950309805	0307K13.D	1622
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKKW

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: VBLKKW Date Analyzed: 03/07/95

Lab File ID: 0307V03.D Time Analyzed: 2231

Instrument ID: MSD11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSBLKKW	950309821	0307V05.D	2354
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				
27				
28				
29				
30				

COMMENTS:

5LCA

LOW CONC. WATER VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab File ID: 0303KBF1.D BFB Injection Date: 03/03/95

Instrument ID: MSD11 BFB Injection Time: 1135

GC Column:DB-624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.1
75	30.0 - 66.0% of mass 95	49.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.4
175	4.0 - 9.0% of mass 174	4.9 (7.2)1
176	93.0 - 101.0% of mass 174	68.2 (99.7)1
177	5.0 - 9.0% of mass 176	4.7 (6.9)2

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

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	0303K04C.D	03/03/95	1208
02	VSTD001	VSTD001	0303K05C.D	03/03/95	1255
03	VSTD002	VSTD002	0303K06C.D	03/03/95	1405
04	VSTD010	VSTD010	0303K07C.D	03/03/95	1444
05	VSTD025	VSTD025	0303K08C.D	03/03/95	1528
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5LCA
LOW CONC. WATER VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab File ID: 0307KBF.D BFB Injection Date: 03/07/95

Instrument ID: MSD11 BFB Injection Time: 0742

GC Column:DB-624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.8
75	30.0 - 66.0% of mass 95	43.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.2
175	4.0 - 9.0% of mass 174	4.9 (7.3)1
176	93.0 - 101.0% of mass 174	66.1 (98.2)1
177	5.0 - 9.0% of mass 176	3.8 (5.7)2

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

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	0307K01.D	03/07/95	0813
02	VBLKKV	VBLKKV	0307K03.D	03/07/95	0948
03	VLCSKV	VLCSKV	0307K04.D	03/07/95	1029
04	CS29	950309805	0307K13.D	03/07/95	1622
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5LCA
LOW CONC. WATER VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91 2 2 0393

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab File ID: 0307VBF.D BFB Injection Date: 03/07/95

Instrument ID: MSD11 BFB Injection Time: 2010

GC Column:DB-624 ID: 0.53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.1
75	30.0 - 66.0% of mass 95	45.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.5
175	4.0 - 9.0% of mass 174	5.1 (7.3)1
176	93.0 - 101.0% of mass 174	67.7 (97.4)1
177	5.0 - 9.0% of mass 176	4.5 (6.6)2

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

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	0307V01.D	03/07/95	2046
02	VBLKKW	VBLKKW	0307V03.D	03/07/95	2231
03	VSBLKKW	950309821	0307V05.D	03/07/95	2354
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8LCA
LOW CONC. WATER VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

2 2 0399

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab File ID (Standard): 0307K01.D Date Analyzed: 03/07/95

Instrument ID: MSD11 Time Analyzed: 0813

GC Column:DB-624 ID: 0.53 (mm)

		IS1(CBZ) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	2273368	18.61	3217140	12.21	1115475	24.07
	UPPER LIMIT	3182715	18.94	4503996	12.54	1561665	24.40
	LOWER LIMIT	1364021	18.28	1930284	11.88	669285	23.74
	CLIENT SAMPLE No.						
01	VBLKKV	2073793	18.60	2944686	12.22	902509	24.08
02	VLCSKV	1994468	18.60	2785938	12.20	887682	24.07
03	CS29	2029930	18.65	3058776	12.26	892276	24.12
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 40% of internal standard area
AREA LOWER LIMIT = - 40% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = 0.33 minutes of internal standard RT

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

8LCA
LOW CONC. WATER VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

2 2 0400

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab File ID (Standard): 0307V01.D Date Analyzed: 03/07/95

Instrument ID: MSD11 Time Analyzed: 2046

GC Column:DB-624 ID: 0.53 (mm)

		IS1(CBZ) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	2038687	18.63	3061316	12.25	947793	24.09
	UPPER LIMIT	2854162	18.96	4285842	12.58	1326910	24.42
	LOWER LIMIT	1223212	18.30	1836790	11.92	568676	23.76
	CLIENT SAMPLE No.						
01	VBLKKW	2071090	18.64	3050799	12.25	893639	24.10
02	VSBLKKW	1969518	18.64	2881689	12.26	837752	24.10
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 40% of internal standard area
AREA LOWER LIMIT = - 40% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = 0.33 minutes of internal standard RT

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

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS29

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309805 Date Received: 03/04/95

Lab File ID: 0307K13.D Date Analyzed: 03/07/95

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	41	
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.8	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	3	J
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

2 2 0402

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

CS29

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309805 Date Received: 03/04/95

Lab File ID: 0307K13.D Date Analyzed: 03/07/95

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1. 75070	Acetaldehyde	3.270	8	NJ
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

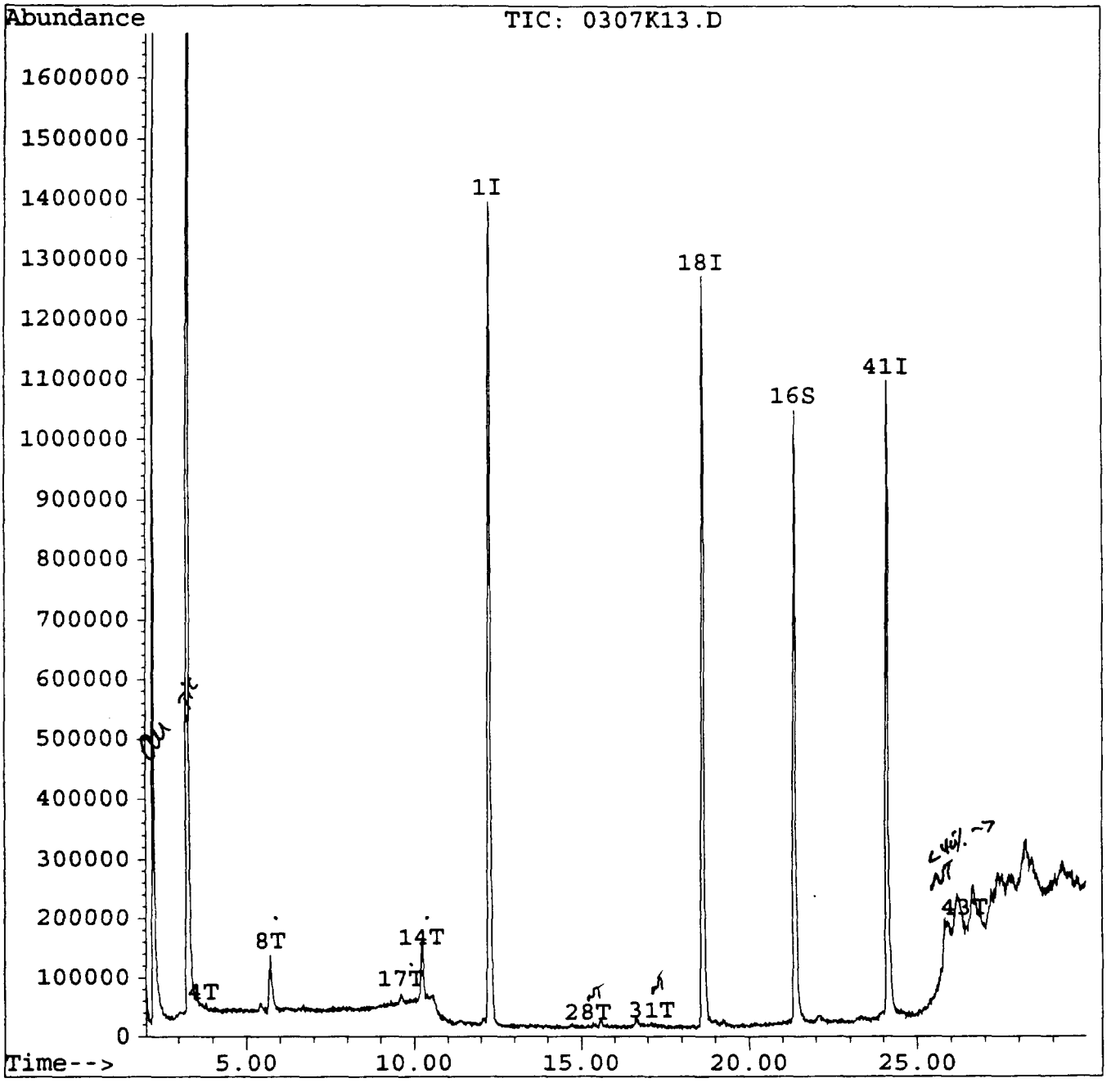
Quantitation Report 2 2 0403

Data File : C:\HPCHEM\1\DATA\95030711.B\0307K13.D
Acq On : 7 Mar 95 4:22 pm
Sample : 2041-1(0)-5 STR IEA MSD11
Misc :
Quant Time: Mar 7 16:53 1995

Vial: 1
Operator: CREWES
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030711.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 10:18:51 1995
Response via : Single Level Calibration

CS9



Quantitation Report

2 2 0404

Data File : C:\HPCHEM\1\DATA\95030711.B\0307K13.D
Acq On : 7 Mar 95 4:22 pm
Sample : 2041-1(0)-5 STR IEA MSD11
Misc :
Quant Time: Mar 7 16:53 1995

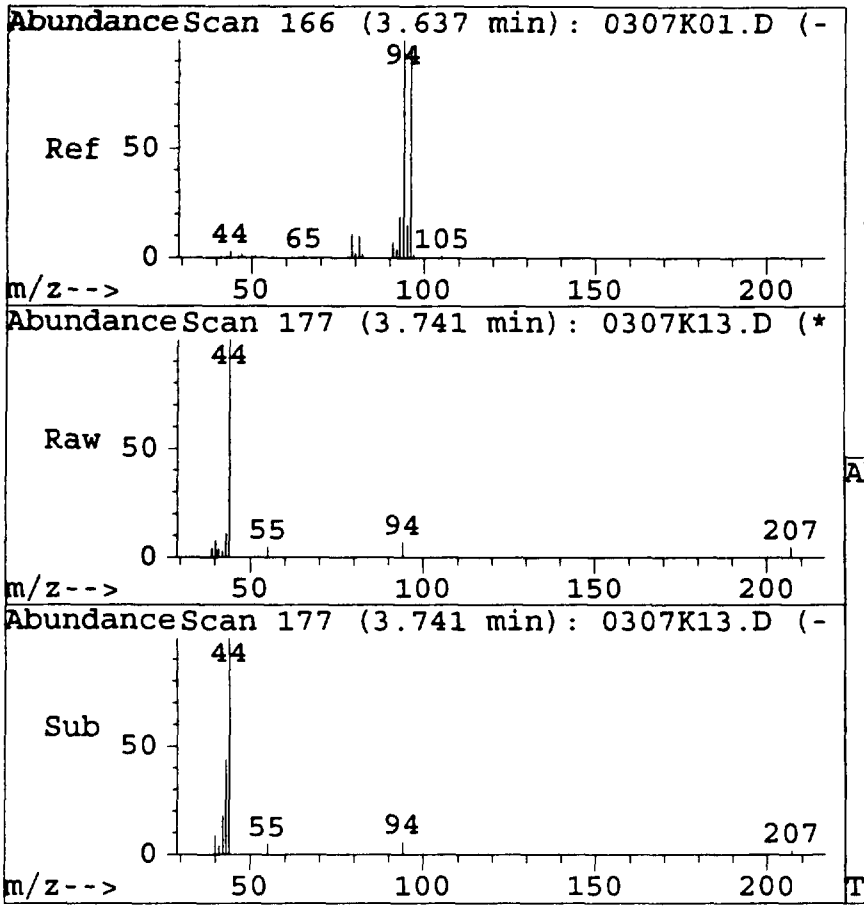
Vial: 1
Operator: CREWES
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030711.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 10:18:51 1995
Response via : Single Level Calibration

CS29

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	12.26	114	3058776	5.00 UG/L	0.05
18) Chlorobenzene-d5	18.65	117	2029930	5.00 UG/L	0.04
41) 1,4-Dichlorobenzene-d4	24.12	152	892276	5.00 UG/L	0.04
System Monitoring Compounds					%Recovery
16) Bromofluorobenzene	21.37	174	825609	4.41 UG/L	88.13%
Target Compounds					Qvalue
4) Bromomethane	3.74	94	23653	~~0.19 UG/L #~~	2
8) Acetone	5.72	43	351914	41.32 UG/L	97
14) Chloroform	10.24	83	209680	0.80 UG/L J	99
17) 2-Butanone	9.60	43	51335	2.92 UG/L	87
28) 4-Methyl-2-Pentanone	15.19	43	7667	~~0.14 UG/L #~~	46
31) 2-Hexanone	17.12	43	4542	~~0.14 UG/L~~ #	35
43) 1,2-Dibromo-3-chloropropan	26.39	75	3019	~~0.24 UG/L #~~	1

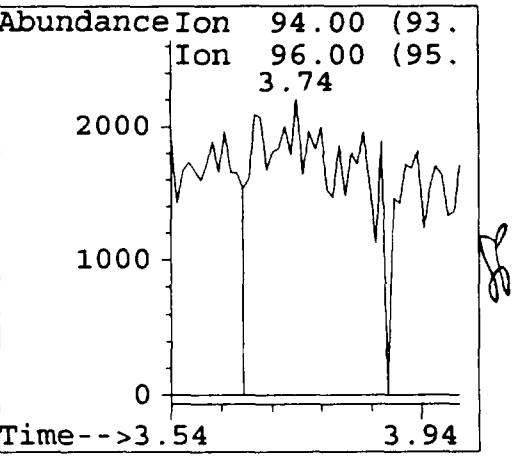
(#) = qualifier out of range (m) = manual integration

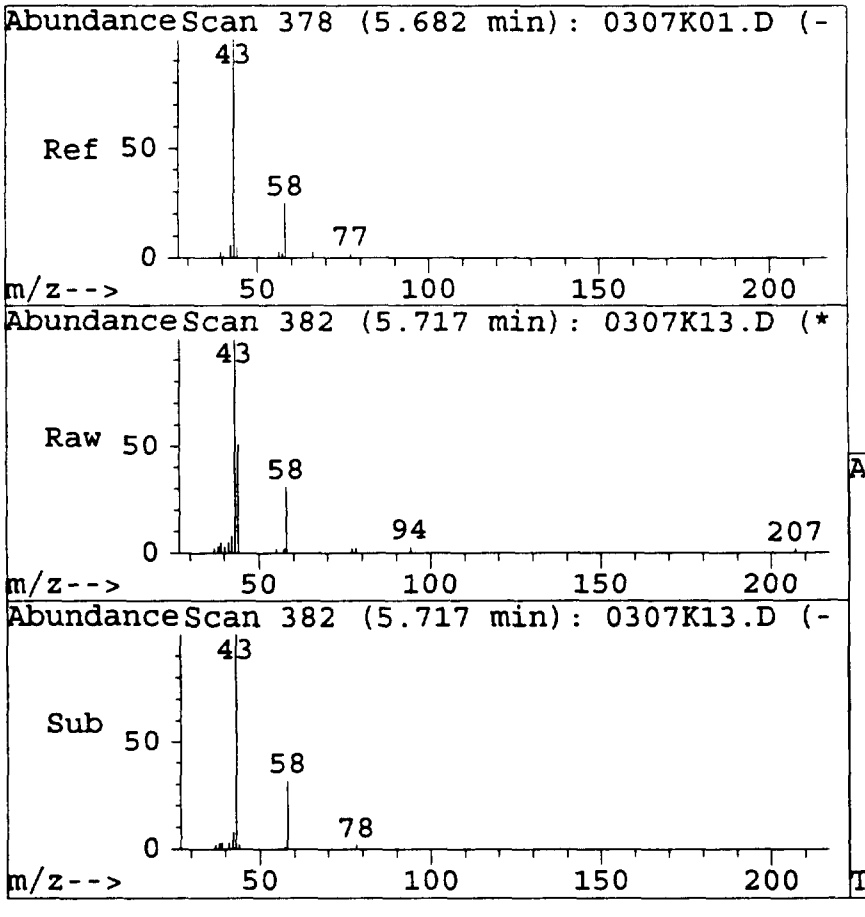


#4
Bromomethane
Concen: 0.19 UG/L
RT: 3.74 min Scan# 177
Delta R.T. 0.10 min
Lab File: 0307K13.D
Acq: 7 Mar 95 4:22 pm

Tgt Ion:94 Resp: 23653

Ion	Ratio	Lower	Upper
94	100		
96	0.0	75.5	115.5#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

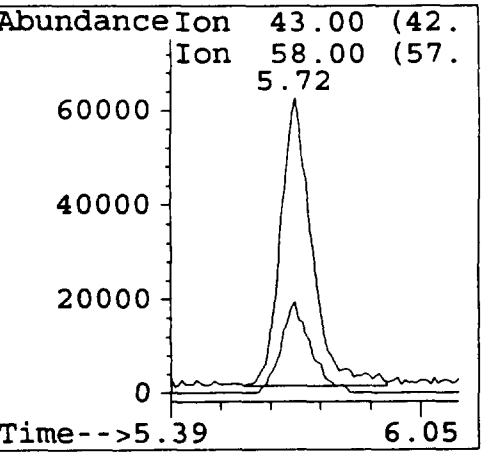




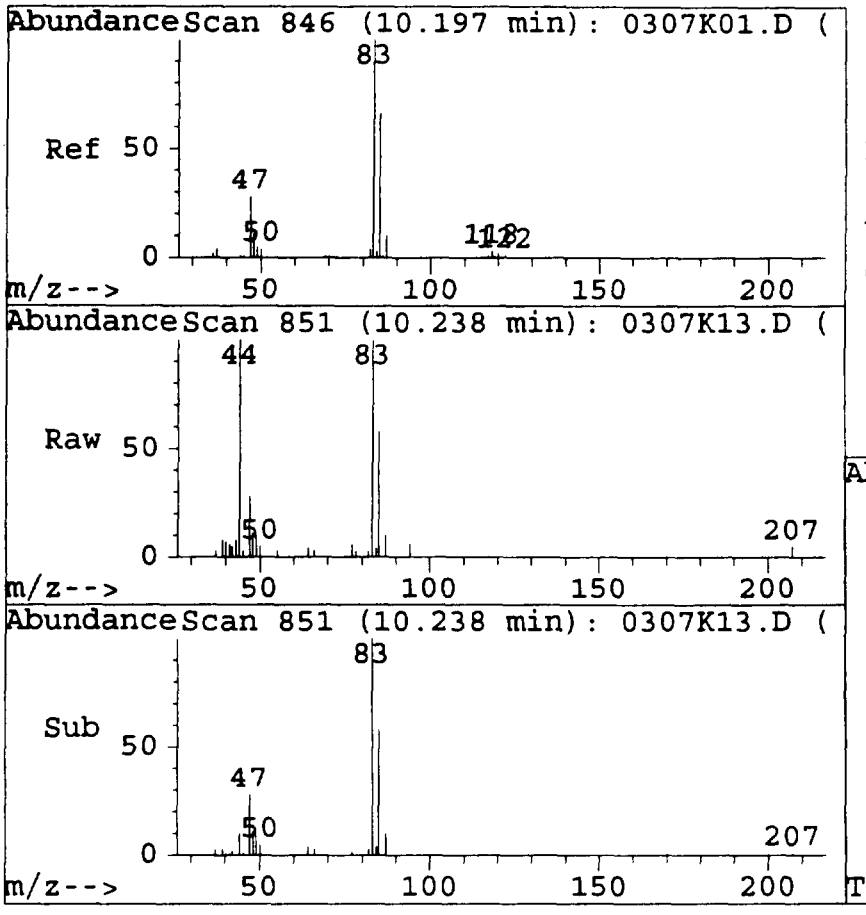
#8
Acetone
Concen: 41.32 UG/L
RT: 5.72 min Scan# 382
Delta R.T. 0.04 min
Lab File: 0307K13.D
Acq: 7 Mar 95 4:22 pm

Tgt Ion:43 Resp: 351914

Ion	Ratio	Lower	Upper
43	100		
58	30.1	8.6	48.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0



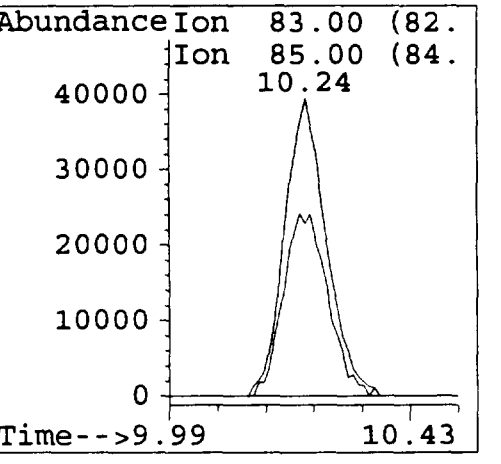
CS29 18A

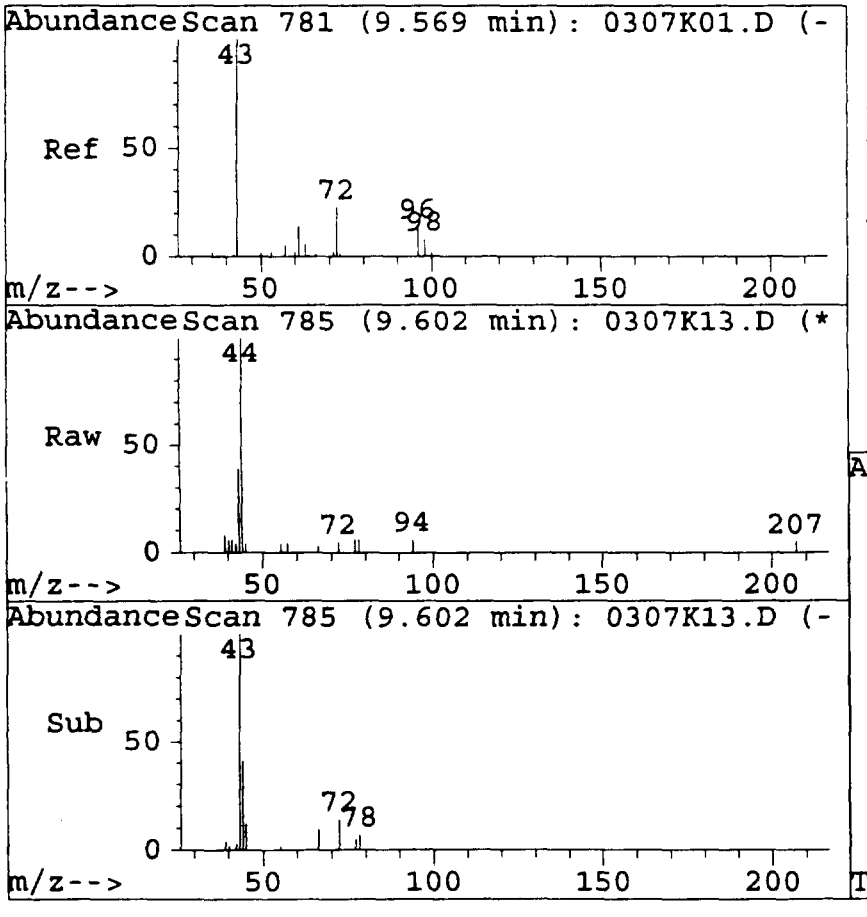


#14
Chloroform
Concen: 0.80 UG/L
RT: 10.24 min Scan# 851
Delta R.T. 0.04 min
Lab File: 0307K13.D
Acq: 7 Mar 95 4:22 pm

Tgt Ion:83 Resp: 209680

Ion	Ratio	Lower	Upper
83	100		
85	66.0	45.3	85.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0

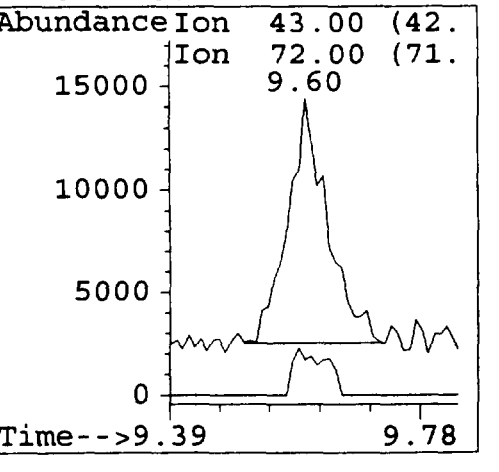




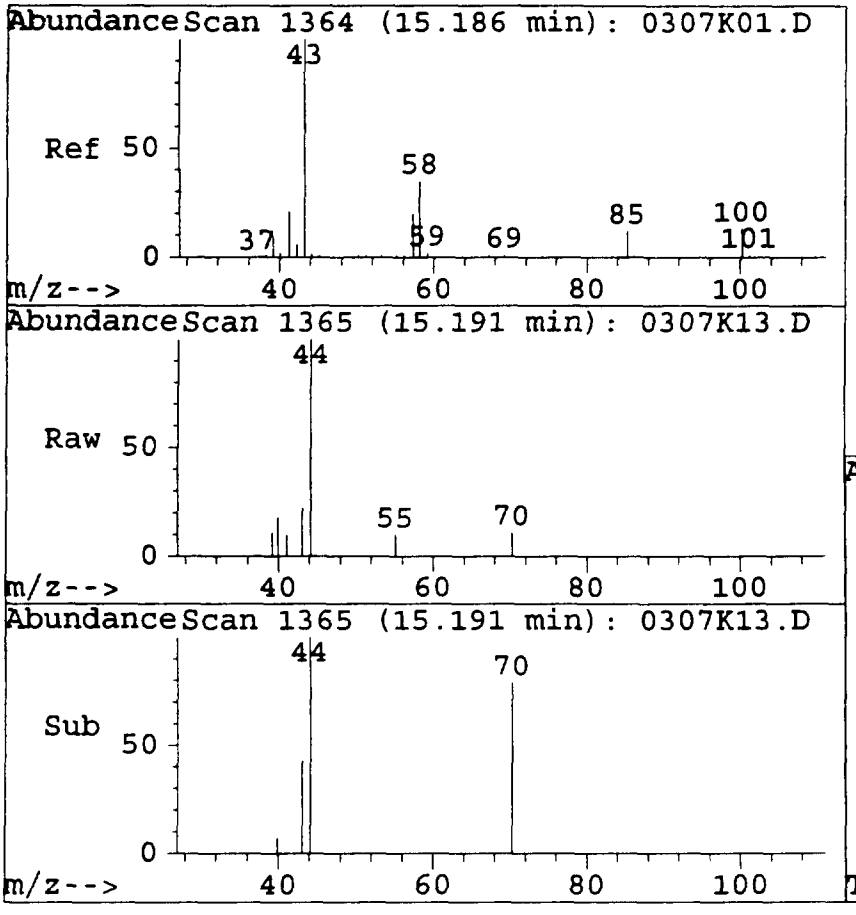
#17
2-Butanone
Concen: 2.92 UG/L
RT: 9.60 min Scan# 785
Delta R.T. 0.03 min
Lab File: 0307K13.D
Acq: 7 Mar 95 4:22 pm

Tgt Ion:43 Resp: 51335

Ion	Ratio	Lower	Upper
43	100		
72	15.1	1.0	41.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



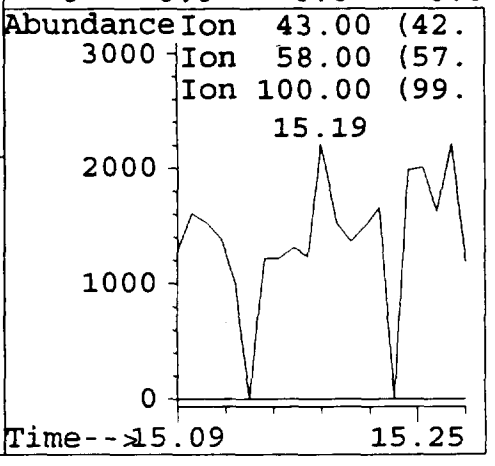
CS29 181

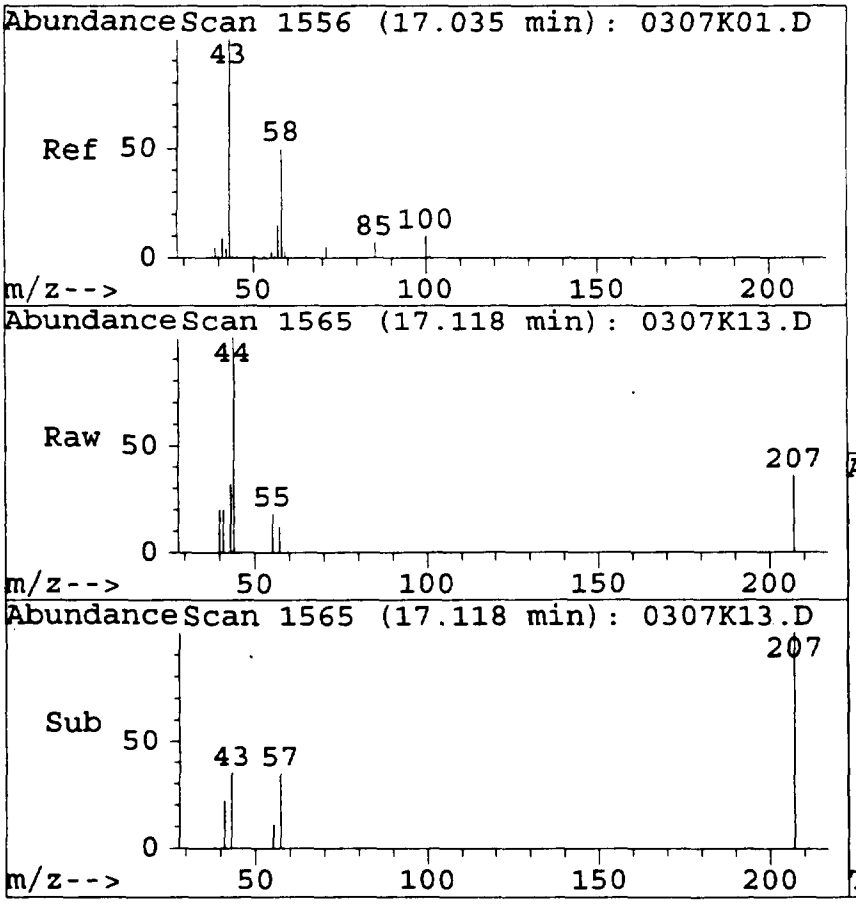


#28
4-Methyl-2-Pentanone
Concen: 0.14 UG/L
RT: 15.19 min Scan# 1365
Delta R.T. 0.01 min
Lab File: 0307K13.D
Acq: 7 Mar 95 4:22 pm

Tgt Ion:43 Resp: 7667

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.3	56.3#
100	0.0	0.0	32.3
0	0.0	0.0	0.0

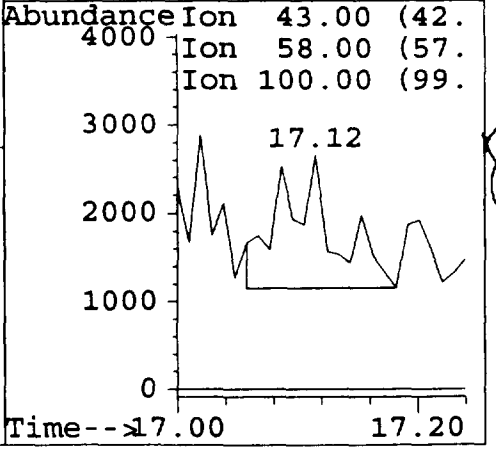




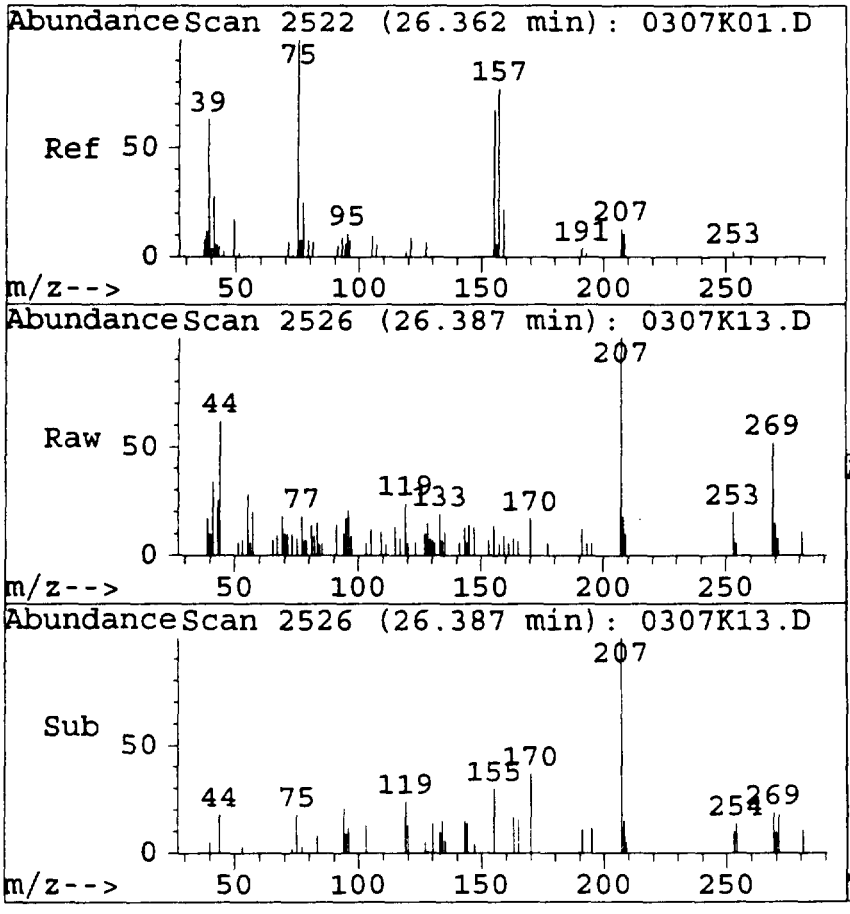
#31
2-Hexanone
Concen: 0.14 UG/L
RT: 17.12 min Scan# 1565
Delta R.T. 0.08 min
Lab File: 0307K13.D
Acq: 7 Mar 95 4:22 pm

Tgt Ion:43 Resp: 4542

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	70.2#
100	0.0	0.0	29.3
0	0.0	0.0	0.0



CS29 1EA

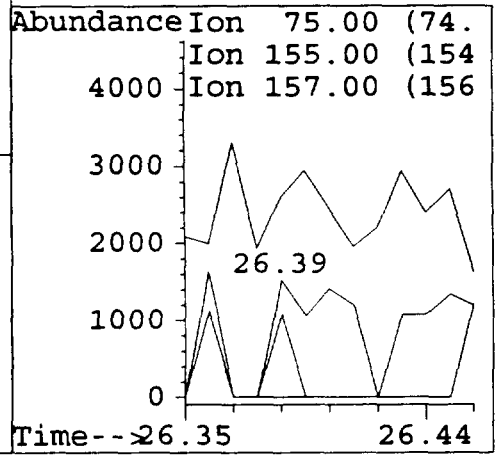


2 2 0403

#43
1,2-Dibromo-3-chloropropane
Concen: 0.24 UG/L
RT: 26.39 min Scan# 2526
Delta R.T. 0.02 min
Lab File: 0307K13.D
Acq: 7 Mar 95 4:22 pm

Tgt Ion:75 Resp: 3019

Ion	Ratio	Lower	Upper
75	100		
155	216.8	53.0	93.0#
157	0.0	65.8	105.8#
0	0.0	0.0	0.0



CS29 181

Library Search Compound Report

2 2 0409

Data File : C:\HPCHEM\1\DATA\95030711.B\0307K13.D
Acq On : 7 Mar 95 4:22 pm
Sample : 2041-1(0)-5 STR IEA MSD11
Misc :

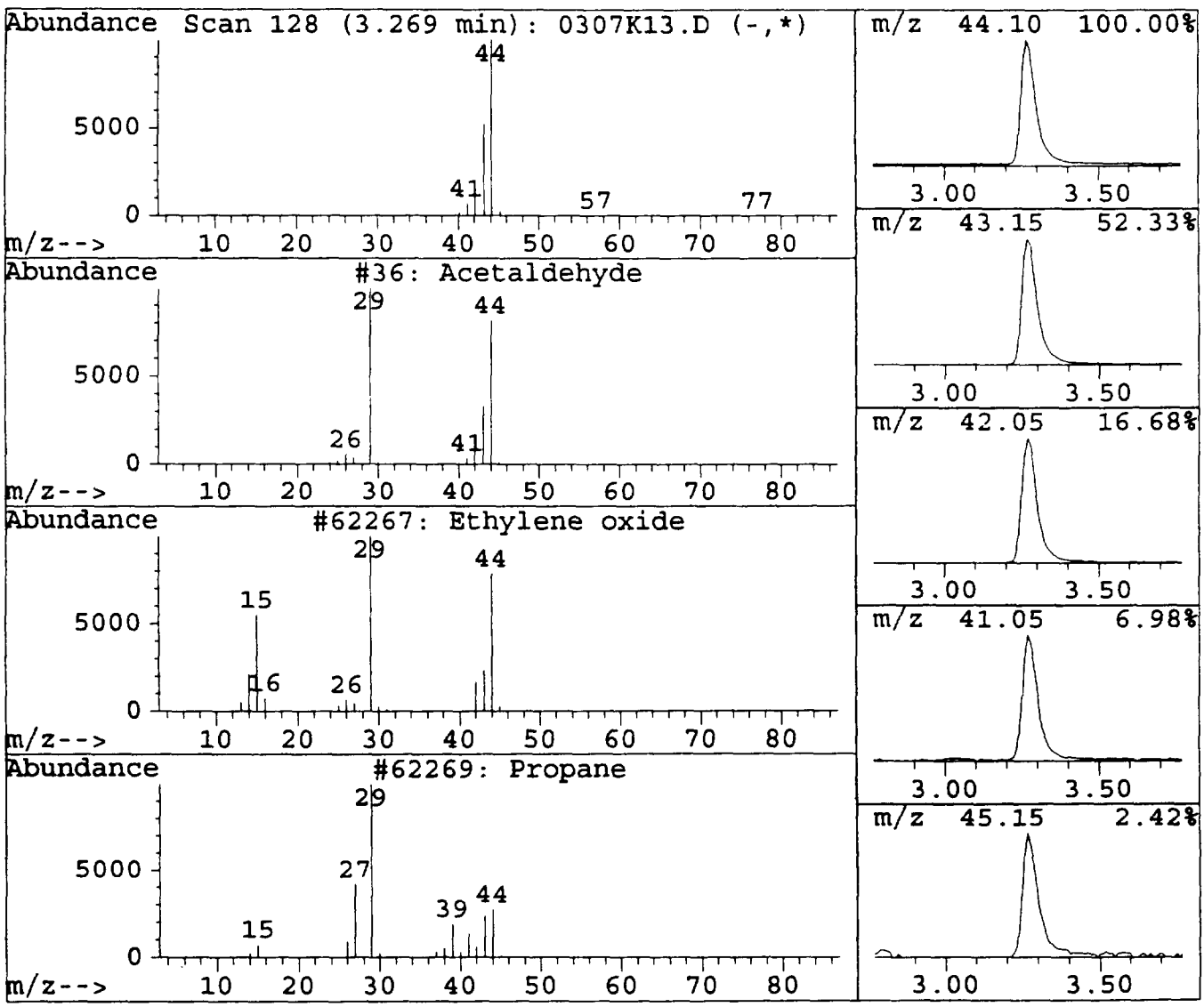
Vial: 1
Operator: CREWES
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030711.B\691.M
Title : IEA MSD11 6/91
Library : C:\DATABASE\NBS75K.L

CS29

R.T.	Conc	(8) Area	Relative to ISTD	R.T.
3.27	7.60 UG/L	10907639	1,4-Difluorobenzene	12.26

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Acetaldehyde	36	000075-07-0	74
2	Ethylene oxide	62267	000075-21-8	5
3	Propane	62269	000074-98-6	4
4	1,2-Propanediamine	325	000078-90-0	4
5	Carbon dioxide	62263	000124-38-9	3



1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VSBLKKW

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309821 Date Received: 03/04/95

Lab File ID: 0307V05.D Date Analyzed: 03/08/95

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	0.1	JB
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VSBLKKW

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309821 Date Received: 03/04/95

Lab File ID: 0307V05.D Date Analyzed: 03/08/95

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

Number TICs found: 0

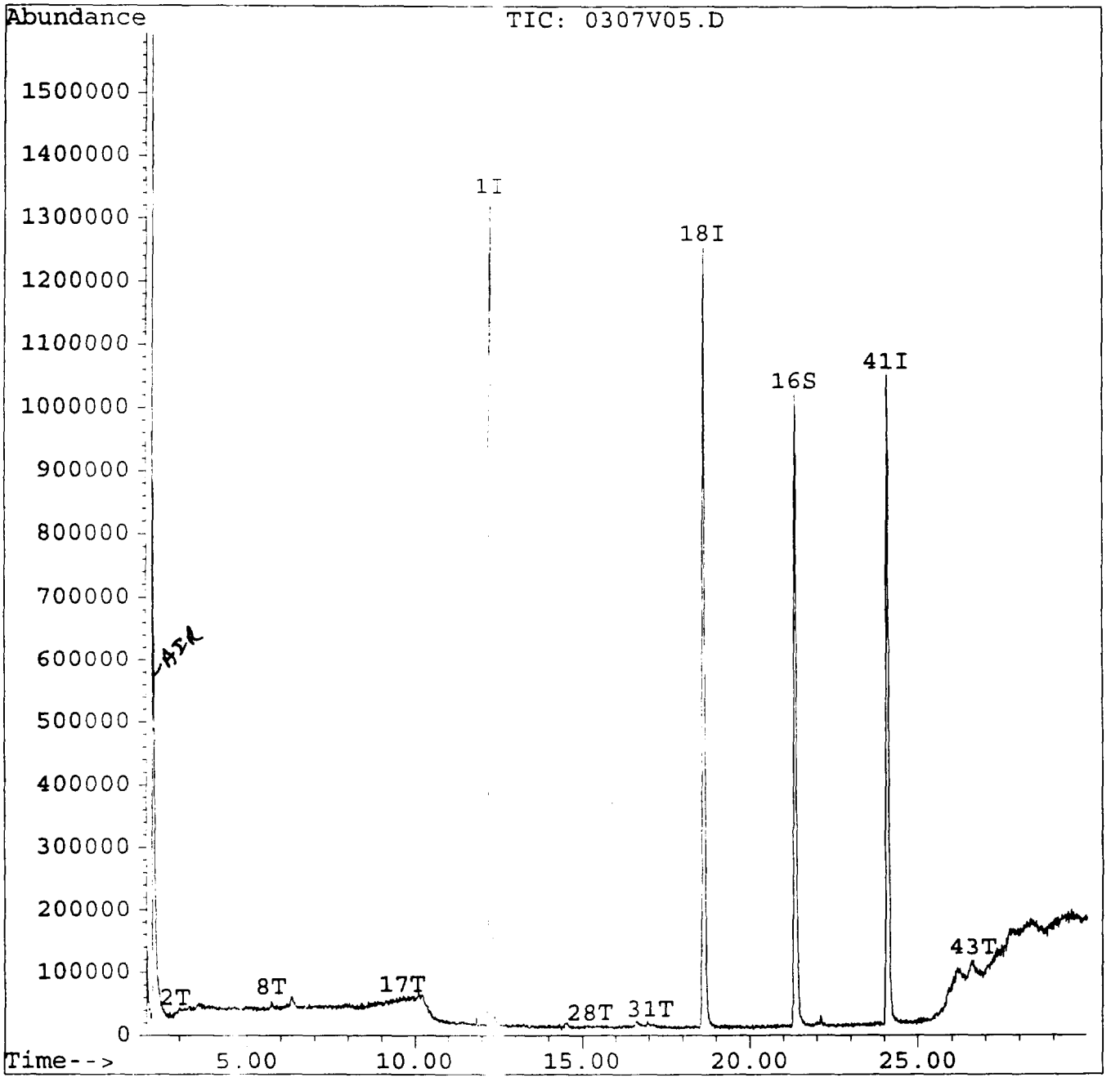
CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\950307V.B\0307V05.D 2 2 0412 Vial: 3
Acq On : 7 Mar 95 11:54 pm Operator: CREWES
Sample : 2041-1(0)-21 STR IEA MSD11 Inst : MSD11
Misc : Multiplr: 1.00
Quant Time: Mar 8 0:25 1995

Method : C:\HPCHEM\1\DATA\950307V.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 21:23:09 1995
Response via : Single Level Calibration

VSBLKW



Quantitation Report

2 2 0413

Data File : C:\HPCHEM\1\DATA\950307V.B\0307V05.D
Acq On : 7 Mar 95 11:54 pm
Sample : 2041-1(0)-21 STR IEA MSD11
Misc :
Quant Time: Mar 8 0:25 1995 VSBLKKW

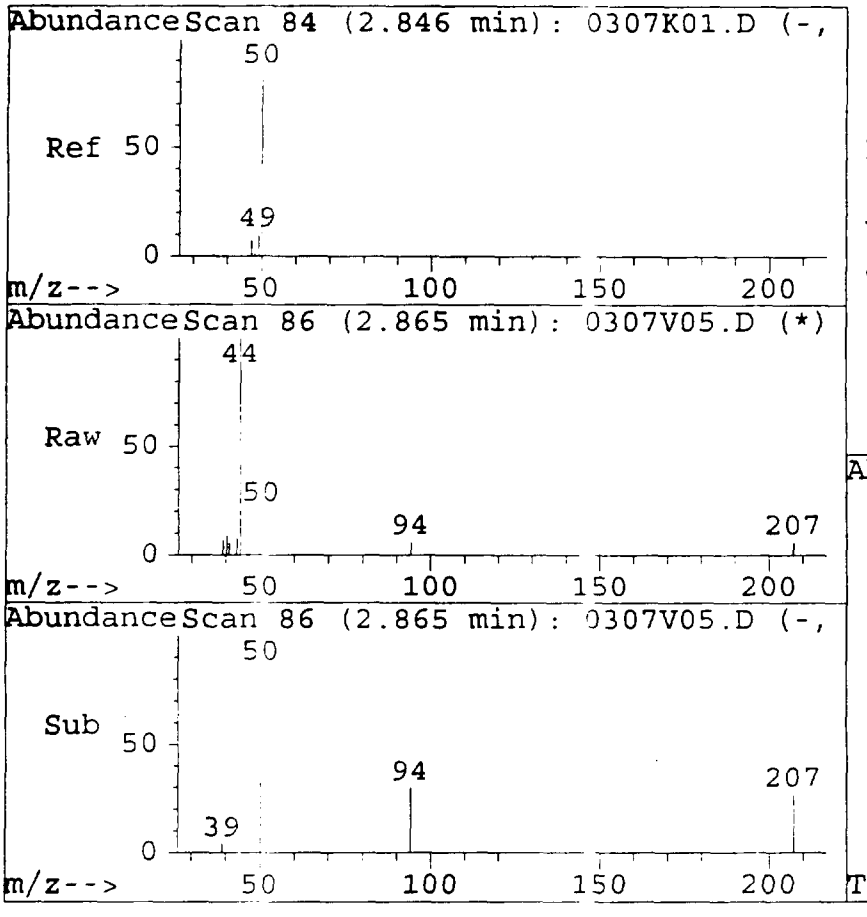
Vial: 3
Operator: CREWES
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\950307V.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 21:23:09 1995
Response via : Single Level Calibration

STR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	12.26	114	2881689	5.00 UG/L	0.01
18) Chlorobenzene-d5	18.64	117	1969518	5.00 UG/L	0.00
41) 1,4-Dichlorobenzene-d4	24.10	152	837752	5.00 UG/L	0.00
System Monitoring Compounds					%Recovery
16) Bromofluorobenzene	21.36	174	788688	4.86 UG/L	97.15%
Target Compounds					Qvalue
2) Chloromethane	2.86	50	15531	0.13 UG/L JJ	87
8) Acetone	5.72	43	31388	4.60 UG/L JJ	83
17) 2-Butanone	9.62	43	5880	~~0.41~~ UG/L #	55
28) 4-Methyl-2-Pentanone	15.24	43	10973	~~0.22~~ UG/L #	46
31) 2-Hexanone	17.04	43	8408	~~0.29~~ UG/L #	35
43) 1,2-Dibromo-3-chloropropan	26.64	75	2063	0.~~17~~ UG/L #	9

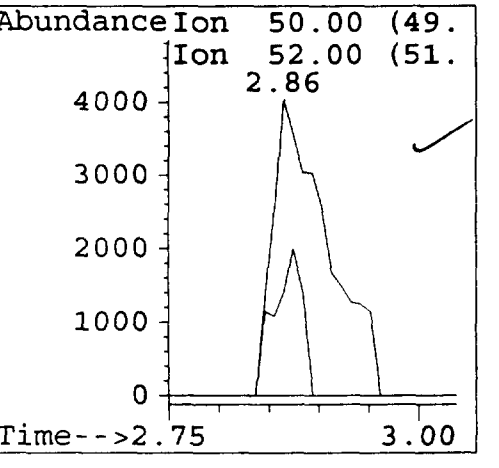
(#) = qualifier out of range (m) = manual integration

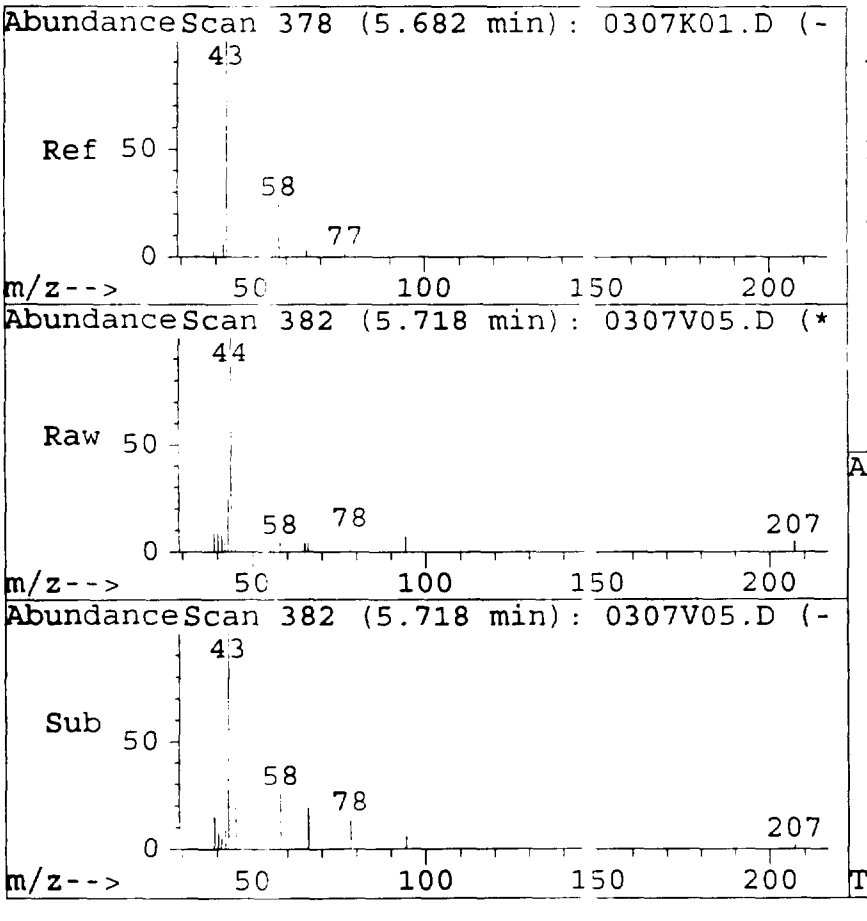


#2
Chloromethane
Concen: 0.13 UG/L
RT: 2.86 min Scan# 86
Delta R.T. 0.01 min
Lab File: 0307V05.D
Acq: 7 Mar 95 11:54 pm

Tgt Ion:50 Resp: 15531

Ion	Ratio	Lower	Upper
50	100		
52	26.3	13.5	53.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

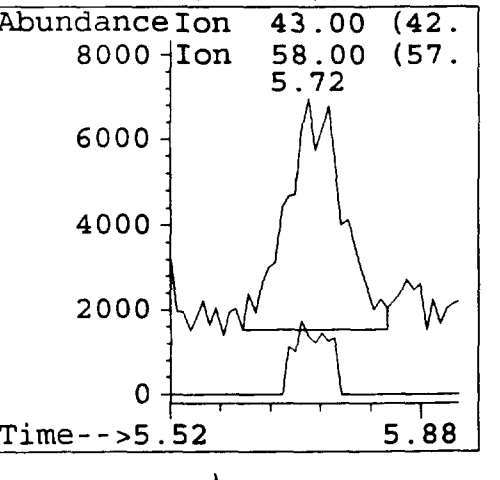




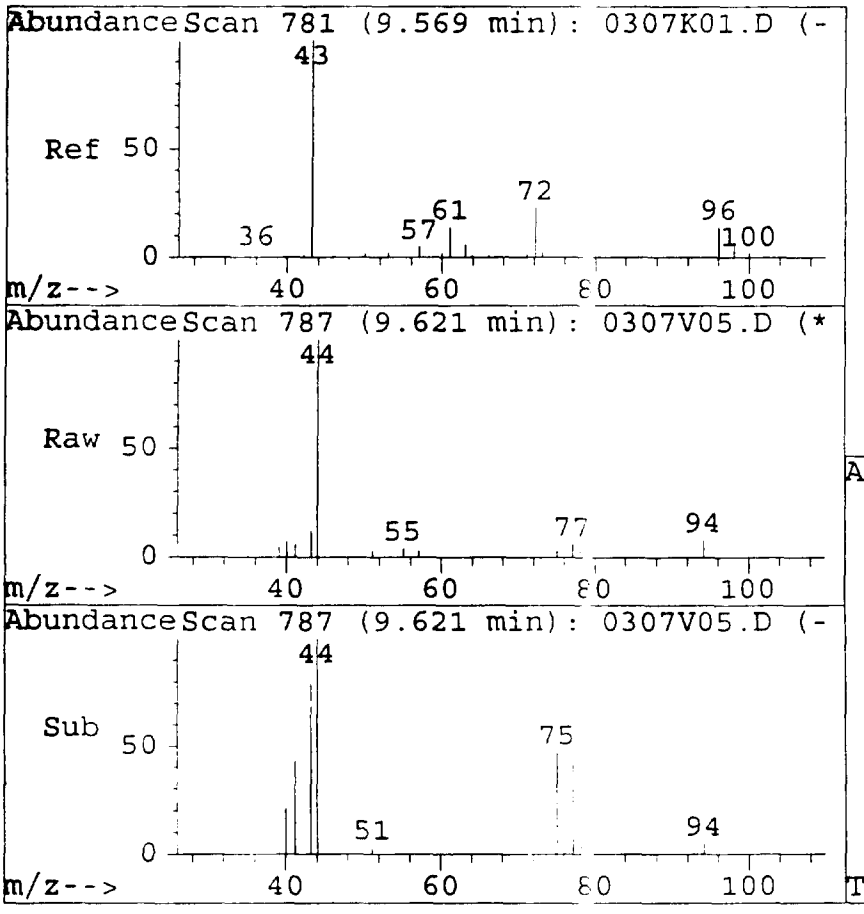
#8
Acetone
Concen: 4.60 UG/L
RT: 5.72 min Scan# 382
Delta R.T. -0.00 min
Lab File: 0307V05.D
Acq: 7 Mar 95 11:54 pm

Tgt Ion:43 Resp: 31388

Ion	Ratio	Lower	Upper
43	100		
58	19.5	8.6	48.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0



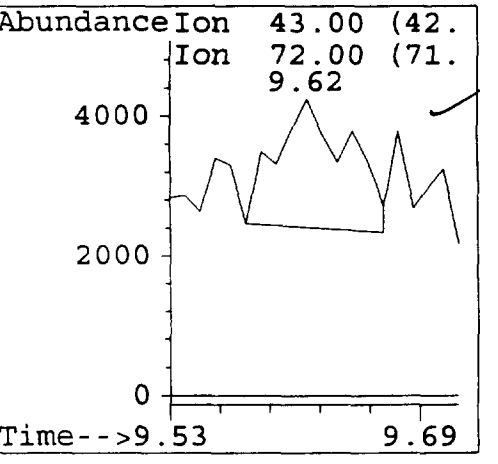
VSDLKKW
IEA

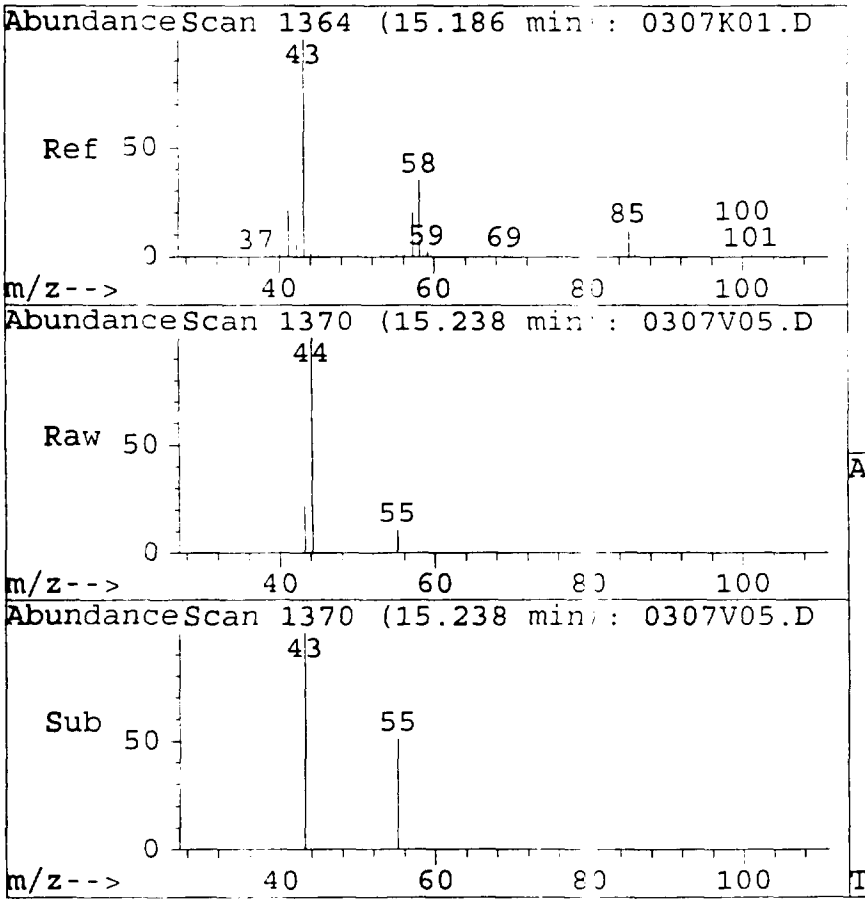


#17 2 2 0415
2-Butanone
Concen: 0.41 UG/L
RT: 9.62 min Scan# 787
Delta R.T. 0.03 min
Lab File: 0307V05.D
Acq: 7 Mar 95 11:54 pm

Tgt Ion:43 Resp: 5880

Ion	Ratio	Lower	Upper
43	100		
72	0.0	1.0	41.0#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

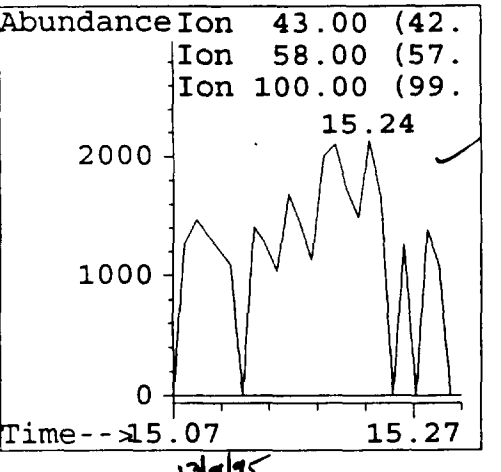




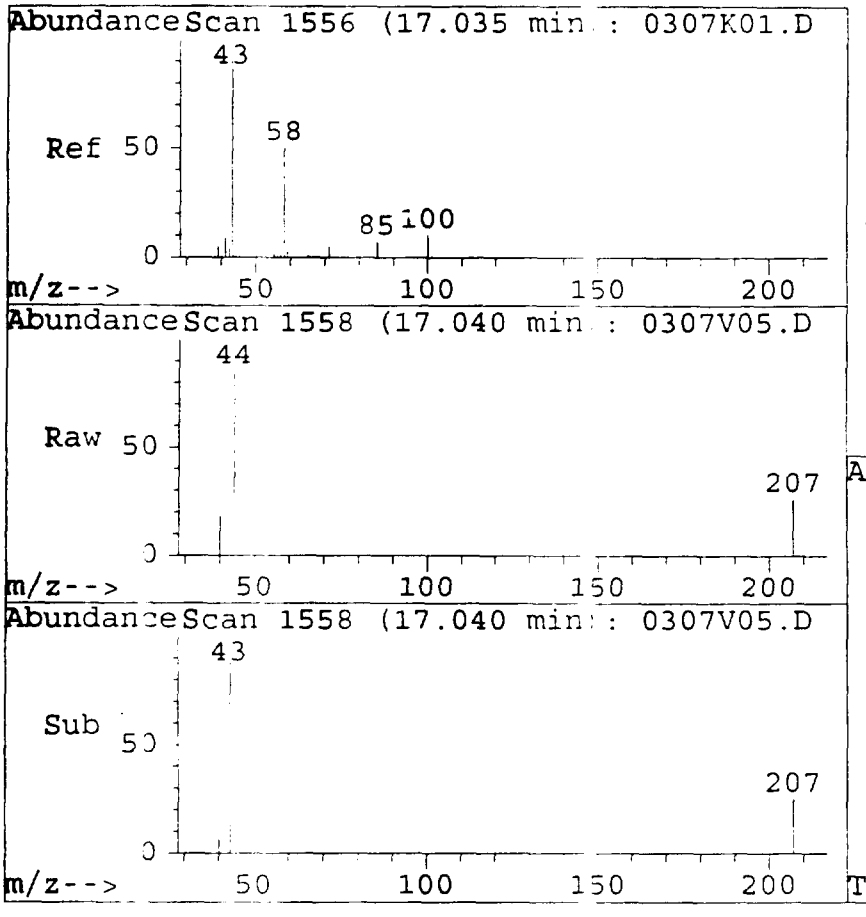
#28
4-Methyl-2-Pentanone
Concen: 0.22 UG/L
RT: 15.24 min Scan# 1370
Delta R.T. 0.03 min
Lab File: 0307V05.D
Acq: 7 Mar 95 11:54 pm

Tgt Ion:43 Resp: 10973

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.3	56.3#
100	0.0	0.0	32.3
0	0.0	0.0	0.0



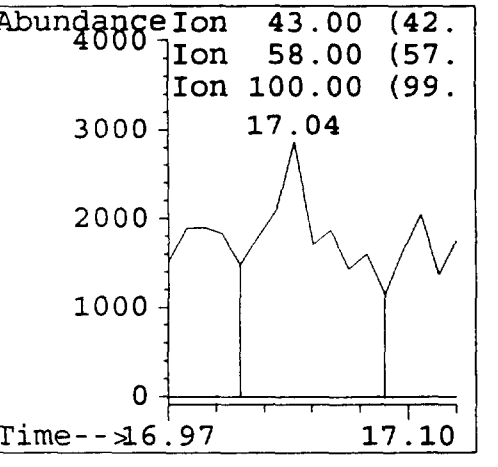
~~VSFB~~ AN 3/9/95
VSBLKKW
IEA

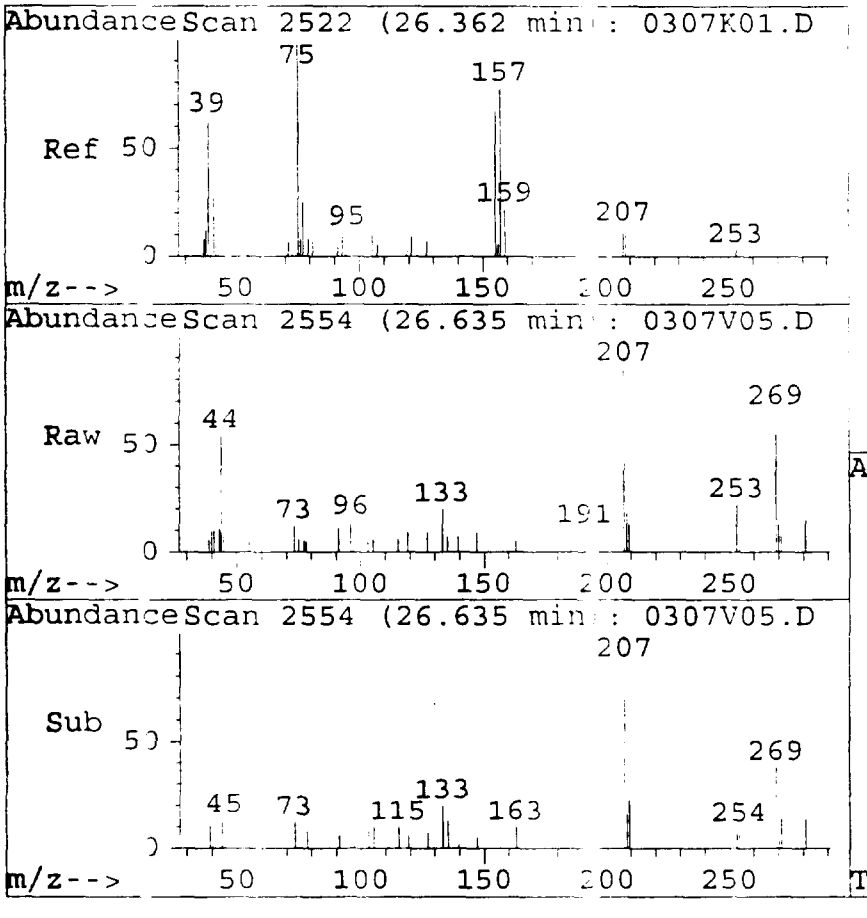


#31 2 2 0415
2-Hexanone
Concen: 0.29 UG/L
RT: 17.04 min Scan# 1558
Delta R.T. -0.02 min
Lab File: 0307V05.D
Acq: 7 Mar 95 11:54 pm

Tgt Ion:43 Resp: 8408

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	70.2#
100	0.0	0.0	29.3
0	0.0	0.0	0.0

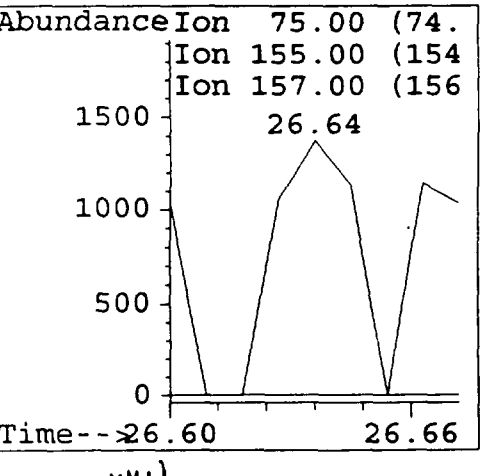




#43
1,2-Dibromo-3-chloropropane
Concen: 0.17 UG/L
RT: 26.64 min Scan# 2554
Delta R.T. 0.26 min
Lab File: 0307V05.D
Acq: 7 Mar 95 11:54 pm

Tgt Ion:75 Resp: 2063

Ion	Ratio	Lower	Upper
75	100		
155	0.0	53.0	93.0#
157	0.0	65.8	105.8#
0	0.0	0.0	0.0



VS DLKKW
IEA

6LCA

LOW CONC. WATER VOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

2 2 0417

Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Instrument ID: MSD11 Calibration Date(s): 03/03/95

LAB FILE ID: RRF1 =0303K05C.D RRF2 =0303K06C.D
RRF5 =0303K04C.D RRF10=0303K07C.D RRF25=0303K08C.D

COMPOUND		RRF1	RRF2	RRF5	RRF10	RRF25	$\overline{RRF}$	% RSD
Chloromethane		0.214	0.247	0.181	0.195	0.186	0.205	13.1
Bromomethane	*	0.234	0.286	0.215	0.222	0.206	0.233	13.6*
Vinyl Chloride	*	0.224	0.289	0.229	0.255	0.238	0.247	10.7*
Chloroethane		0.155	0.189	0.151	0.162	0.129	0.157	13.9
Methylene Chloride		0.206	0.231	0.174	0.192	0.174	0.195	12.3
Acetone		0.015	0.014	0.011	0.012	0.012	0.013	13.2
Carbon Disulfide		0.671	0.869	0.673	0.743	0.723	0.736	11.0
1,1-Dichloroethene	*	0.222	0.286	0.219	0.247	0.244	0.244	11.0*
1,1-Dichloroethane	*	0.501	0.654	0.490	0.546	0.524	0.543	12.1*
cis-1,2-Dichloroethene		0.264	0.328	0.243	0.276	0.265	0.275	11.5
trans-1,2-Dichloroethene		0.274	0.340	0.264	0.292	0.287	0.291	10.0
Chloroform	*	0.447	0.559	0.409	0.459	0.438	0.463	12.4*
1,2-Dichloroethane	*	0.203	0.248	0.183	0.204	0.191	0.206	12.3*
2-Butanone		0.034	0.027	0.023	0.024	0.023	0.026	16.8
Bromochloromethane	*	0.100	0.134	0.095	0.108	0.099	0.107	14.5*
1,1,1-Trichloroethane	*	0.604	0.819	0.657	0.680	0.484	0.649	18.8*
Carbon Tetrachloride	*	0.510	0.704	0.585	0.597	0.424	0.564	18.5*
Bromodichloromethane	*	0.495	0.654	0.479	0.545	0.384	0.511	19.3*
1,2-Dichloropropane		0.438	0.570	0.415	0.454	0.318	0.439	20.6
cis-1,3-Dichloropropene	*	0.434	0.600	0.443	0.506	0.356	0.468	19.4*
Trichloroethene	*	0.480	0.637	0.472	0.526	0.376	0.498	19.1*
Dibromochloromethane	*	0.240	0.329	0.251	0.292	0.206	0.264	18.2*
1,1,2-Trichloroethane	*	0.180	0.224	0.166	0.191	0.128	0.178	19.8*
Benzene	*	1.242	1.634	1.222	1.295	0.940	1.267	19.5*
trans-1,3-Dichloropropene	*	0.291	0.371	0.281	0.329	0.230	0.300	17.6*
Bromoform	*	0.247	0.334	0.252	0.308	0.305	0.289	13.2*
4-Methyl-2-Pentanone		0.148	0.130	0.112	0.123	0.080	0.119	21.2
2-Hexanone		0.104	0.078	0.072	0.073	0.048	0.075	26.4
Tetrachloroethene	*	0.618	0.806	0.631	0.691	0.493	0.648	17.6*
1,1,2,2-Tetrachloroethane	*	0.222	0.242	0.181	0.203	0.132	0.196	21.6*
1,2-Dibromoethane	*	0.231	0.283	0.210	0.239	0.163	0.225	19.5*
Toluene	*	1.368	1.820	1.361	1.492	1.063	1.421	19.2*
Chlorobenzene	*	0.915	1.139	0.862	0.953	0.662	0.906	18.9*
Ethylbenzene	*	1.620	2.123	1.629	1.819	1.257	1.690	18.7*
Styrene	*	0.838	1.076	0.834	0.939	0.639	0.865	18.5*
Xylenes (total)	*	0.560	0.717	0.558	0.621	0.425	0.576	18.4*
1,3-Dichlorobenzene	*	1.517	1.863	1.389	1.583	1.478	1.566	11.5*
1,4-Dichlorobenzene	*	1.553	1.869	1.407	1.571	1.473	1.574	11.2*
1,2-Dichlorobenzene	*	1.184	1.394	1.031	1.188	1.099	1.179	11.6*
1,2-Dibromo-3-chloropropane		0.111	0.102	0.062	0.064	0.064	0.081	29.5
Bromofluorobenzene	*	0.335	0.360	0.291	0.299	0.278	0.313	10.8*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

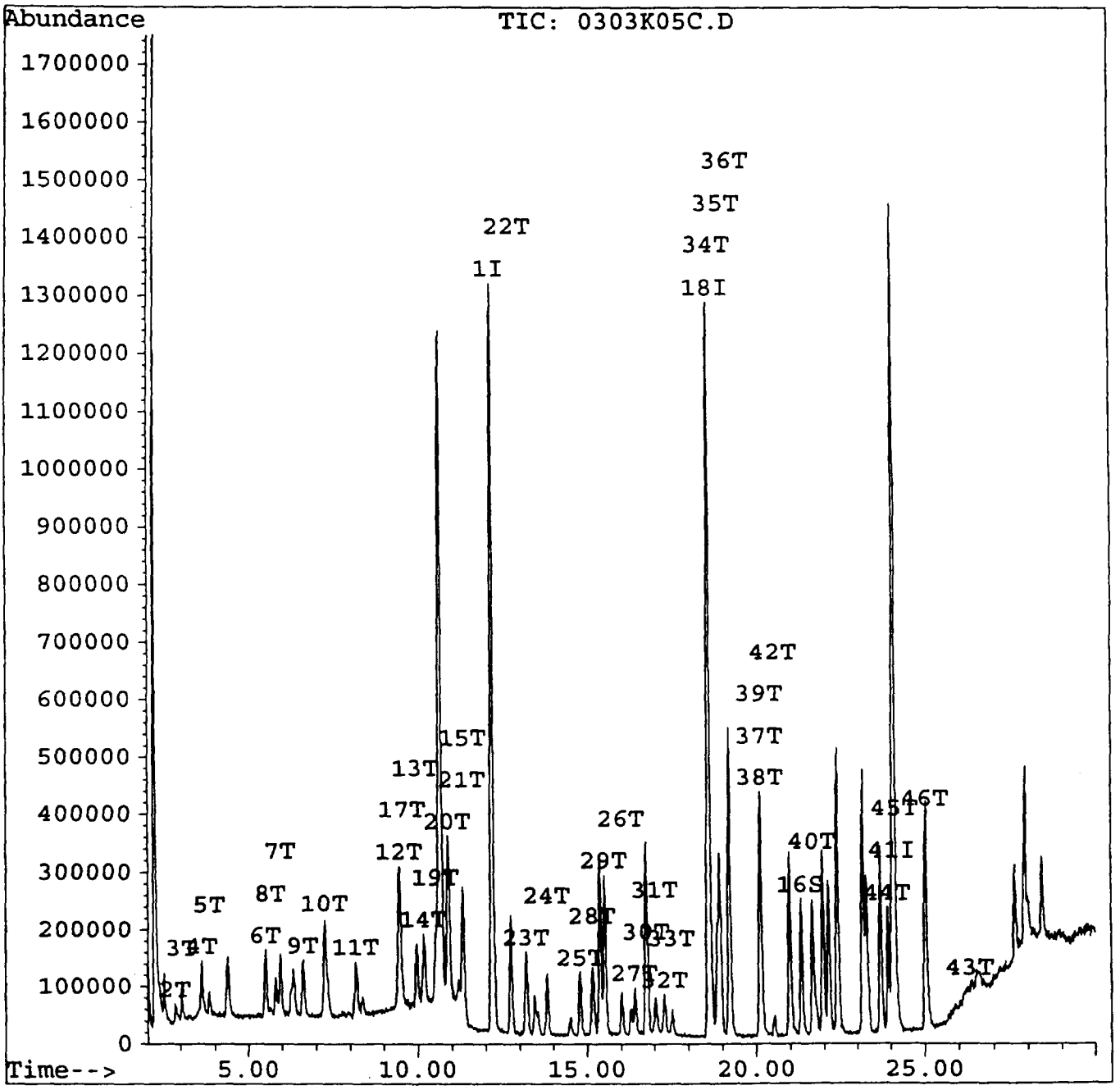
Quantitation Report

2 2 0413

Data File : c:\hpchem\1\data\95030311.b\0303k05c.d
Acq On : 3 Mar 95 12:55 pm
Sample : VSTD001 IEA MSD11
Misc :
Quant Time: Mar 6 6:59 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration



Quantitation Report 2 2 0410

Data File : c:\hpchem\1\data\95030311.b\0303k05c.d
Acq On : 3 Mar 95 12:55 pm
Sample : VSTD001 IEA MSD11
Misc :
Quant Time: Mar 6 6:59 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Difluorobenzene	12.20	114	2877997	5.00	UG/L		-0.02
18) Chlorobenzene-d5	18.61	117	2007228	5.00	UG/L		0.00
41) 1,4-Dichlorobenzene-d4	24.07	152	901211	5.00	UG/L		0.00
System Monitoring Compounds							**%Recovery**
16) Bromofluorobenzene	21.34	174	192821	1.09	UG/L		21.83%
Target Compounds							**Qvalue**
2) Chloromethane	2.86	50	122933	0.94	UG/L		97
3) Vinyl Chloride	3.05	62	128994	0.87	UG/L		99
4) Bromomethane	3.64	94	134535	1.00	UG/L		99
5) Chloroethane	3.86	64	89160	0.96	UG/L		99
6) 1,1-Dichloroethene	5.53	96	127733	0.91	UG/L		99
7) Carbon Disulfide	5.97	76	386108	0.90	UG/L	Sulfur	97
8) Acetone	5.67	43	43186	5.78	UG/L	m	78
9) Methylene Chloride	6.63	84	118760	1.09	UG/L		97
10) trans-1,2-Dichloroethene	7.26	96	157433	0.98	UG/L		95
11) 1,1-Dichloroethane	8.18	63	288289	0.95	UG/L		97
12) cis-1,2-Dichloroethene	9.47	96	151895	1.00	UG/L		93
13) Bromochloromethane	9.98	128	57801	0.96	UG/L		95
14) Chloroform	10.19	83	257097	1.02	UG/L		99
15) 1,2-Dichloroethane	11.37	62	116600	1.03	UG/L		99
17) 2-Butanone	9.57	43	96460	6.72	UG/L		92
19) 1,1,1-Trichloroethane	10.55	97	242423	0.97	UG/L	#	1
20) Carbon Tetrachloride	10.91	117	204549	0.94	UG/L		98
21) Benzene	11.33	78	498793	1.77	UG/L	m	100
22) Trichloroethene	12.75	95	192529	0.95	UG/L		98
23) 1,2-Dichloropropane	13.20	63	175973	1.00	UG/L		91
24) Bromodichloromethane	13.83	83	198637	1.00	UG/L		98
25) cis-1,3-Dichloropropene	14.81	75	174047	0.92	UG/L		93
26) trans-1,3-Dichloropropene	16.04	75	116714	1.12	UG/L		98
27) 1,1,2-Trichloroethane	16.43	97	72314	1.01	UG/L		97
28) 4-Methyl-2-Pentanone	15.18	43	296469	6.01	UG/L	m	98
29) Toluene	15.54	91	549091	0.92	UG/L		99
30) Tetrachloroethene	16.76	166	248158	0.96	UG/L		100
31) 2-Hexanone	17.03	43	208125	6.99	UG/L		90
32) Dibromochloromethane	17.30	129	96332	0.90	UG/L		98
33) 1,2-Dibromoethane	17.52	107	92875	1.01	UG/L	#	95
34) Chlorobenzene	18.67	112	367197	0.96	UG/L		96
35) Ethylbenzene	18.95	91	650249	0.91	UG/L		99
36) m,p-Xylene	19.22	106	465252	1.83	UG/L		98
37) o-Xylene	20.13	106	224838	0.95	UG/L		99
38) Xylenes (total)	20.13	106	224838	0.95	UG/L		99
39) Styrene	20.15	104	336218	0.93	UG/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

2 2 0429

Data File : c:\hpchem\1\data\95030311.b\0303k05c.d
Acq On : 3 Mar 95 12:55 pm
Sample : VSTD001 IEA MSD11
Misc :
Quant Time: Mar 6 6:59 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	21.69	83	89198	1.08 UG/L	91
42) Bromoform	20.56	173	44436	0.78 UG/L #	93
43) 1,2-Dibromo-3-chloropropan	26.37	75	20047	1.32 UG/L m	80
44) 1,3-Dichlorobenzene	23.91	146	273514	0.91 UG/L 3/6/95	98
45) 1,4-Dichlorobenzene	24.14	146	279870	0.92 UG/L	98
46) 1,2-Dichlorobenzene	25.01	146	213486	0.94 UG/L	99

(#) = qualifier out of range (m) = manual integration

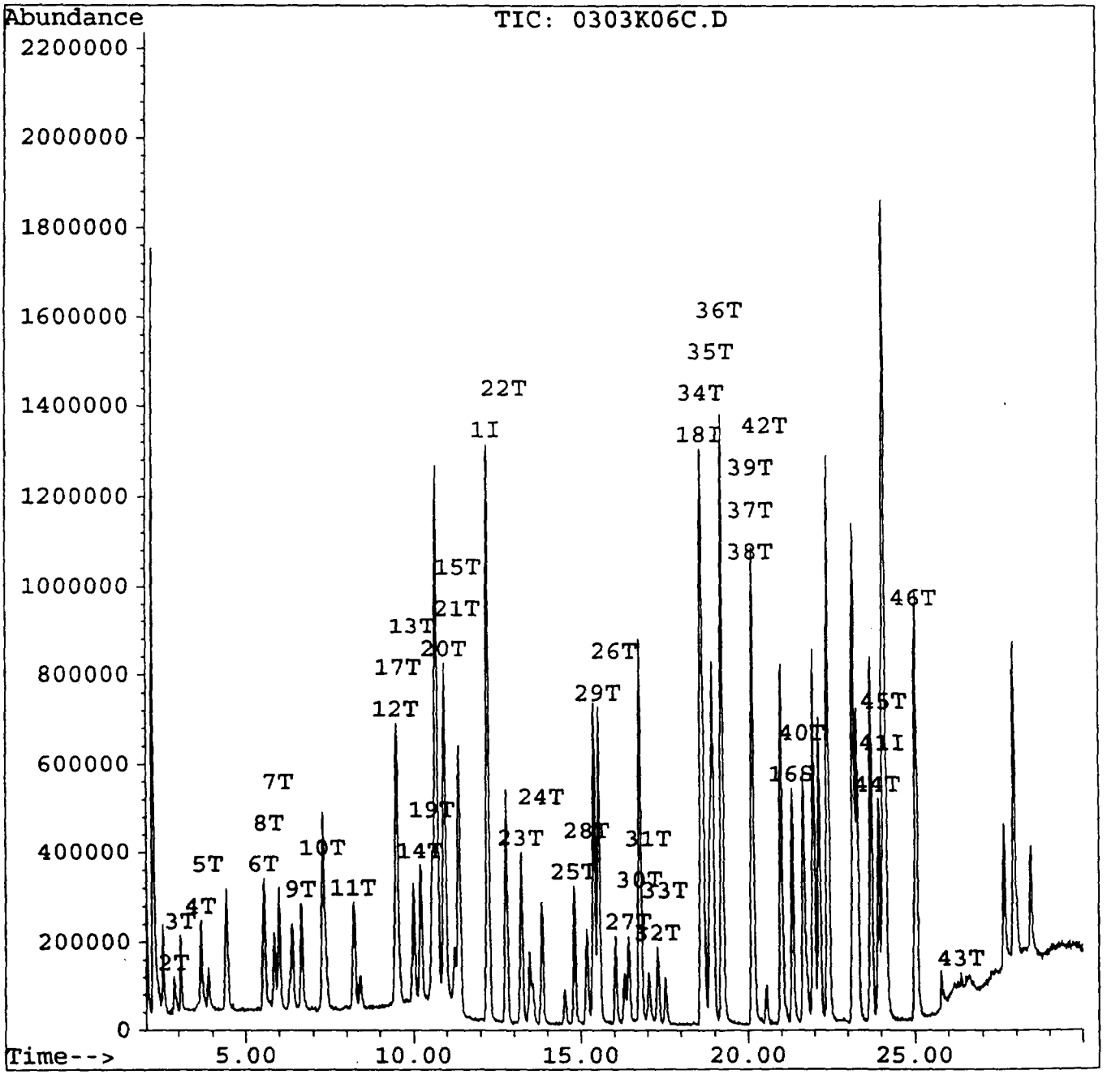
Quantitation Report

2 2 0421

Data File : c:\hpchem\1\data\95030311.b\0303k06c.d
Acq On : 3 Mar 95 2:05 pm
Sample : VSTD002 IEA MSD11
Misc :
Quant Time: Mar 6 7:03 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration



Quantitation Report

2 2 0422

Data File : c:\hpchem\1\data\95030311.b\0303k06c.d
Acq On : 3 Mar 95 2:05 pm
Sample : VSTD002 IEA MSD11
Misc :
Quant Time: Mar 6 7:03 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	12.22	114	2895535	5.00	UG/L	0.00
18) Chlorobenzene-d5	18.61	117	1951460	5.00	UG/L	0.00
41) 1,4-Dichlorobenzene-d4	24.07	152	845966	5.00	UG/L	0.00
System Monitoring Compounds						%Recovery
16) Bromofluorobenzene	21.34	174	417277	2.46	UG/L	49.17%
Target Compounds						Qvalue
2) Chloromethane	2.86	50	286430	2.21	UG/L	99
3) Vinyl Chloride	3.05	62	335284	2.35	UG/L	100
4) Bromomethane	3.66	94	331320	2.55	UG/L m	93
5) Chloroethane	3.87	64	219078	2.49	UG/L	97
6) 1,1-Dichloroethene	5.54	96	331431	2.53	UG/L	99
7) Carbon Disulfide	5.99	76	1006279	2.48	UG/L	93
8) Acetone	5.71	43	79924	10.73	UG/L m	99
9) Methylene Chloride	6.65	84	267645	2.66	UG/L	99
10) trans-1,2-Dichloroethene	7.29	96	393468	2.66	UG/L	99
11) 1,1-Dichloroethane	8.21	63	757704	2.74	UG/L	99
12) cis-1,2-Dichloroethene	9.49	96	379582	2.74	UG/L	99
13) Bromochloromethane	10.00	128	154658	2.81	UG/L	98
14) Chloroform	10.20	83	648010	2.83	UG/L	100
15) 1,2-Dichloroethane	11.39	62	287760	2.81	UG/L	98
17) 2-Butanone	9.57	43	157406	10.98	UG/L	95
19) 1,1,1-Trichloroethane	10.56	97	639602	2.91	UG/L	85
20) Carbon Tetrachloride	10.92	117	549270	2.86	UG/L	100
21) Benzene	11.34	78	1275146	3.52	UG/L m	100
22) Trichloroethene	12.76	95	497417	2.75	UG/L	99
23) 1,2-Dichloropropane	13.23	63	445235	2.87	UG/L	99
24) Bromodichloromethane	13.83	83	510640	2.97	UG/L	100
25) cis-1,3-Dichloropropene	14.81	75	468237	2.80	UG/L	97
26) trans-1,3-Dichloropropene	16.04	75	289333	3.18	UG/L m	96
27) 1,1,2-Trichloroethane	16.43	97	174501	2.72	UG/L	96
28) 4-Methyl-2-Pentanone	15.19	43	508002	10.41	UG/L	99
29) Toluene	15.54	91	1421009	2.63	UG/L	98
30) Tetrachloroethene	16.77	166	628880	2.73	UG/L	99
31) 2-Hexanone	17.03	43	305694	10.41	UG/L	92
32) Dibromochloromethane	17.31	129	256790	2.70	UG/L	99
33) 1,2-Dibromoethane	17.53	107	220933	2.67	UG/L	98
34) Chlorobenzene	18.67	112	888798	2.53	UG/L	98
35) Ethylbenzene	18.95	91	1657078	2.53	UG/L	100
36) m,p-Xylene	19.22	106	1184716	5.10	UG/L	97
37) o-Xylene	20.12	106	559542	2.60	UG/L	100
38) Xylenes (total)	20.12	106	559542	2.60	UG/L	100
39) Styrene	20.16	104	839910	2.56	UG/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

2 2 0423

Data File : c:\hpchem\1\data\95030311.b\0303k06c.d
Acq On : 3 Mar 95 2:05 pm
Sample : VSTD002 IEA MSD11
Misc :
Quant Time: Mar 6 7:03 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	21.68	83	188715	2.44 UG/L	98
42) Bromoform	20.56	173	113083	2.20 UG/L	99
43) 1,2-Dibromo-3-chloropropan	26.37	75	34461	2.60 UG/L #	71
44) 1,3-Dichlorobenzene	23.92	146	630332	2.33 UG/L	100
45) 1,4-Dichlorobenzene	24.13	146	632310	2.33 UG/L	99
46) 1,2-Dichlorobenzene	25.01	146	471603	2.31 UG/L	99

(#) = qualifier out of range (m) = manual integration

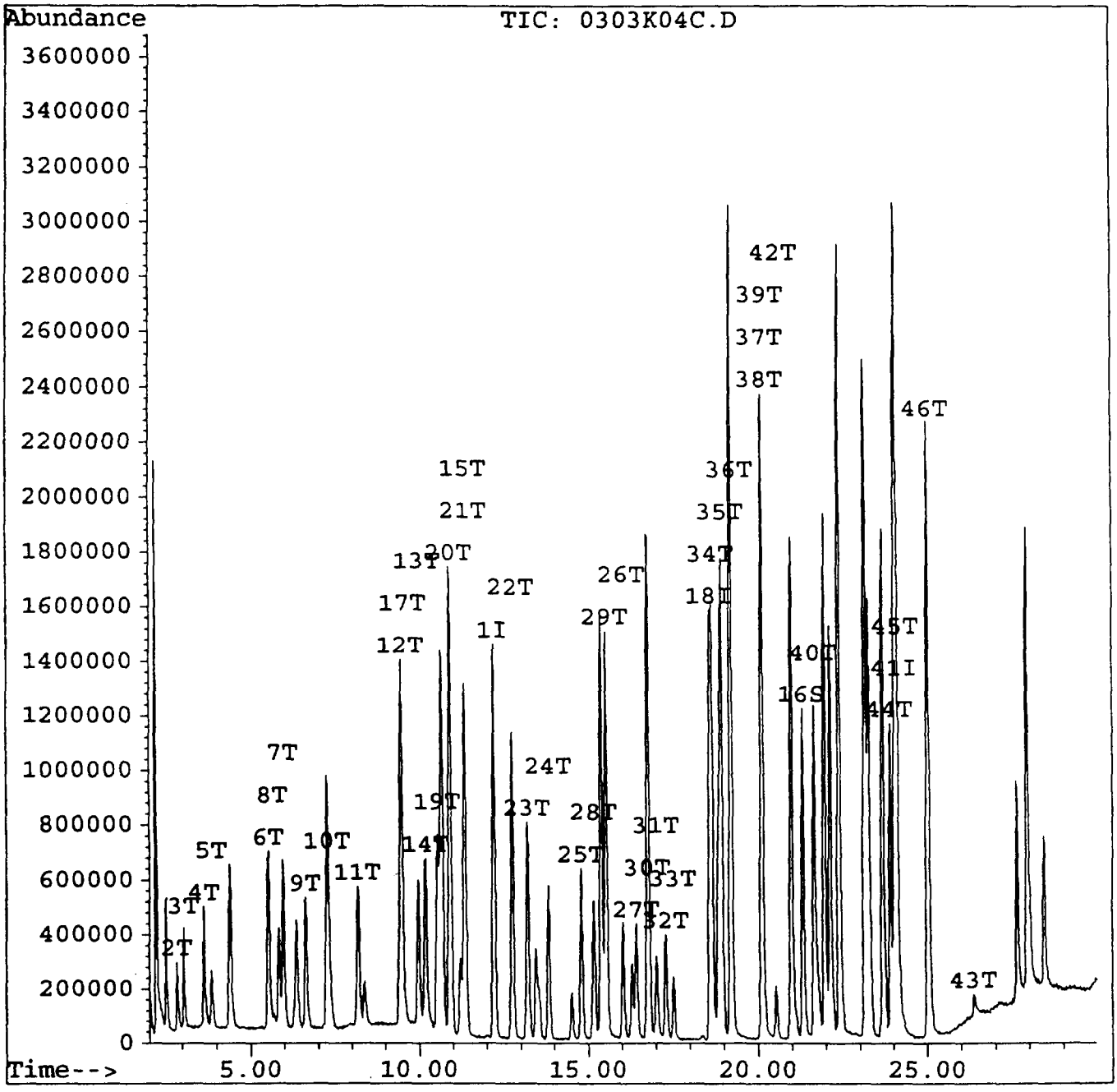
Quantitation Report

2 2 0424

Data File : c:\hpchem\1\data\95030311.b\0303k04c.d
Acq On : 3 Mar 95 12:08 pm
Sample : VSTD005 IEA MSD11
Misc :
Quant Time: Mar 6 6:56 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data\95030311.b\0303k04c.d
Acq On : 3 Mar 95 12:08 pm
Sample : VSTD005 IEA MSD11
Misc :
Quant Time: Mar 6 6:56 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Difluorobenzene	12.20	114	3246158	5.00	UG/L		0.00
18) Chlorobenzene-d5	18.60	117	2215174	5.00	UG/L		-0.01
41) 1,4-Dichlorobenzene-d4	24.07	152	1005562	5.00	UG/L		0.00
System Monitoring Compounds							%Recovery
16) Bromofluorobenzene	21.34	174	944621	4.59	UG/L		91.72%
Target Compounds							Qvalue
2) Chloromethane	2.85	50	588966	4.09	UG/L		97
3) Vinyl Chloride	3.04	62	744280	4.49	UG/L		100
4) Bromomethane	3.64	94	699466	4.54	UG/L	m	98
5) Chloroethane	3.86	64	491098	4.71	UG/L		98
6) 1,1-Dichloroethene	5.53	96	711407	4.46	UG/L		98
7) Carbon Disulfide	5.97	76	2183957	4.49	UG/L		100
8) Acetone	5.68	43	179563	18.93	UG/L		73
9) Methylene Chloride	6.64	84	563361	4.42	UG/L		98
10) trans-1,2-Dichloroethene	7.26	96	857356	4.61	UG/L		97
11) 1,1-Dichloroethane	8.19	63	1589821	4.55	UG/L		97
12) cis-1,2-Dichloroethene	9.47	96	790174	4.49	UG/L		91
13) Bromochloromethane	9.97	128	307364	4.41	UG/L		97
14) Chloroform	10.20	83	1327774	4.50	UG/L		98
15) 1,2-Dichloroethane	11.37	62	592731	4.48	UG/L		97
17) 2-Butanone	9.55	43	373217	21.62	UG/L		88
19) 1,1,1-Trichloroethane	10.54	97	1456405	5.17	UG/L	#	1
20) Carbon Tetrachloride	10.92	117	1295150	5.30	UG/L		99
21) Benzene	11.34	78	2707774	13.46	UG/L	m	100
22) Trichloroethene	12.75	95	1044958	4.68	UG/L		97
23) 1,2-Dichloropropane	13.21	63	919368	4.71	UG/L		92
24) Bromodichloromethane	13.82	83	1060666	4.71	UG/L		97
25) cis-1,3-Dichloropropene	14.80	75	982291	4.70	UG/L		90
26) trans-1,3-Dichloropropene	16.02	75	622569	5.34	UG/L		93
27) 1,1,2-Trichloroethane	16.42	97	367078	4.59	UG/L		94
28) 4-Methyl-2-Pentanone	15.16	43	1238921	22.62	UG/L		98
29) Toluene	15.53	91	3015514	4.65	UG/L		99
30) Tetrachloroethene	16.75	166	1398278	4.85	UG/L		97
31) 2-Hexanone	17.02	43	800681	23.18	UG/L	m	85
32) Dibromochloromethane	17.29	129	556239	4.68	UG/L		99
33) 1,2-Dibromoethane	17.52	107	464326	4.53	UG/L		96
34) Chlorobenzene	18.67	112	1909671	4.58	UG/L		95
35) Ethylbenzene	18.94	91	3608832	4.65	UG/L		99
36) m,p-Xylene	19.22	106	2654218	9.50	UG/L		96
37) o-Xylene	20.12	106	1236731	4.71	UG/L		99
38) Xylenes (total)	20.12	106	1236731	4.71	UG/L		99
39) Styrene	20.15	104	1847137	4.64	UG/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

2 2 0426

Data File : c:\hpchem\1\data\95030311.b\0303k04c.d
Acq On : 3 Mar 95 12:08 pm
Sample : VSTD005 IEA MSD11
Misc :
Quant Time: Mar 6 6:56 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	1,1,2,2-Tetrachloroethane	21.69	83	400681	4.37	UG/L		94
42)	Bromoform	20.55	173	253805	4.08	UG/L		97
43)	1,2-Dibromo-3-chloropropan	26.36	75	62813	3.71	UG/L	m	61
44)	1,3-Dichlorobenzene	23.91	146	1396594	4.24	UG/L		98
45)	1,4-Dichlorobenzene	24.12	146	1414990	4.28	UG/L		96
46)	1,2-Dichlorobenzene	25.01	146	1037188	4.18	UG/L		99

(#) = qualifier out of range (m) = manual integration

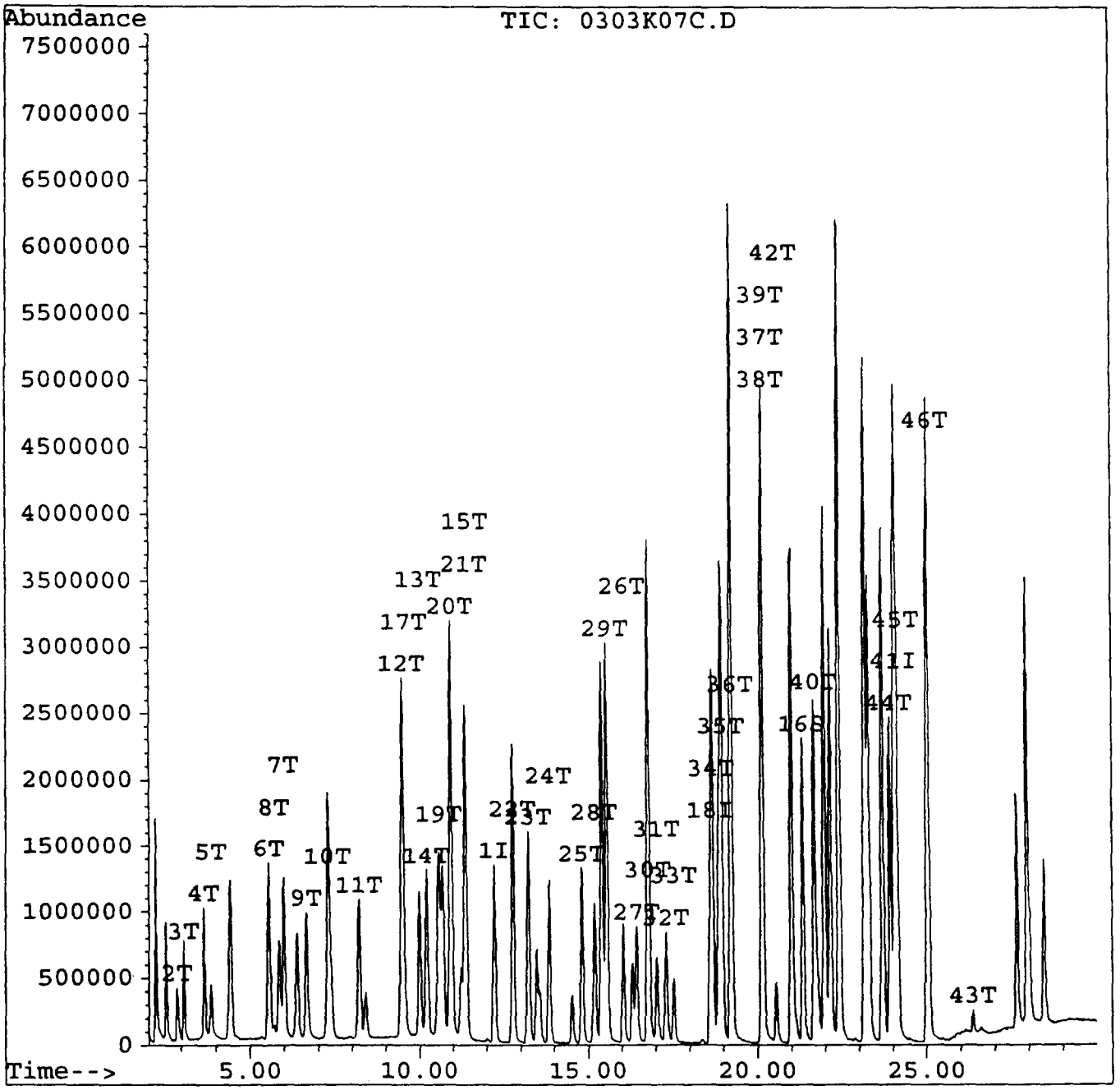
Quantitation Report

2 2 0427

Data File : c:\hpchem\1\data\95030311.b\0303k07c.d
Acq On : 3 Mar 95 2:44 pm
Sample : VSTD010 IEA MSD11
Misc :
Quant Time: Mar 6 7:05 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration



Quantitation Report 2 2 0428

Data File : c:\hpchem\1\data\95030311.b\0303k07c.d
Acq On : 3 Mar 95 2:44 pm
Sample : VSTD010 IEA MSD11
Misc :
Quant Time: Mar 6 7:05 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	12.21	114	2946952	5.00	UG/L	0.00
18) Chlorobenzene-d5	18.60	117	2034670	5.00	UG/L	-0.26
41) 1,4-Dichlorobenzene-d4	24.07	152	933196	5.00	UG/L	0.00
System Monitoring Compounds						%Recovery
16) Bromofluorobenzene	21.35	174	1760091	9.98	UG/L	199.54%
Target Compounds						Qvalue
2) Chloromethane	2.86	50	1150199	8.25	UG/L	100
3) Vinyl Chloride	3.07	62	1505368	10.21	UG/L	100
4) Bromomethane	3.66	94	1308176	9.79	UG/L	99
5) Chloroethane	3.86	64	954322	10.68	UG/L	100
6) 1,1-Dichloroethene	5.55	96	1457869	11.20	UG/L	98
7) Carbon Disulfide	5.99	76	4382011	10.70	UG/L	100
8) Acetone	5.71	43	349542	45.70	UG/L	96
9) Methylene Chloride	6.65	84	1128877	11.37	UG/L	98
10) trans-1,2-Dichloroethene	7.28	96	1722089	12.08	UG/L	99
11) 1,1-Dichloroethane	8.21	63	3217392	11.98	UG/L	100
12) cis-1,2-Dichloroethene	9.49	96	1627834	12.21	UG/L	99
13) Bromochloromethane	9.99	128	635168	11.75	UG/L	99
14) Chloroform	10.20	83	2705376	12.35	UG/L	100
15) 1,2-Dichloroethane	11.39	62	1200547	12.16	UG/L	100
17) 2-Butanone	9.57	43	719640	48.91	UG/L	100
19) 1,1,1-Trichloroethane	10.56	97	2767903	12.78	UG/L	88
20) Carbon Tetrachloride	10.92	117	2427875	12.76	UG/L	98
21) Benzene	11.35	78	5268155	11.13	UG/L m	100
22) Trichloroethene	12.76	95	2142094	11.73	UG/L	99
23) 1,2-Dichloropropane	13.22	63	1848551	11.86	UG/L	100
24) Bromodichloromethane	13.84	83	2216619	13.20	UG/L	99
25) cis-1,3-Dichloropropene	14.81	75	2058089	12.32	UG/L	98
26) trans-1,3-Dichloropropene	16.04	75	1339359	14.61	UG/L	81
27) 1,1,2-Trichloroethane	16.43	97	776979	11.93	UG/L	99
28) 4-Methyl-2-Pentanone	15.19	43	2498985	48.71	UG/L	99
29) Toluene	15.53	91	6069891	10.81	UG/L	100
30) Tetrachloroethene	16.76	166	2812326	12.01	UG/L	100
31) 2-Hexanone	17.03	43	1478090	47.35	UG/L	97
32) Dibromochloromethane	17.30	129	1188941	12.26	UG/L	100
33) 1,2-Dibromoethane	17.53	107	973284	11.42	UG/L	99
34) Chlorobenzene	18.67	112	3878949	10.56	UG/L	98
35) Ethylbenzene	18.95	91	7403223	10.81	UG/L	100
36) m,p-Xylene	19.22	106	5396642	22.23	UG/L	100
37) o-Xylene	20.13	106	2526329	11.21	UG/L	99
38) Xylenes (total)	20.13	106	2526329	11.21	UG/L	99
39) Styrene	20.16	104	3819901	11.09	UG/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

2 2 0429

Data File : c:\hpchem\1\data\95030311.b\0303k07c.d
Acq On : 3 Mar 95 2:44 pm
Sample : VSTD010 IEA MSD11
Misc :
Quant Time: Mar 6 7:05 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
40)	1,1,2,2-Tetrachloroethane	21.68	83	827430	10.05 UG/L		98
42)	Bromoform	20.55	173	574891	10.00 UG/L		100
43)	1,2-Dibromo-3-chloropropan	26.37	75	119990	7.94 UG/L	m	97
44)	1,3-Dichlorobenzene	23.92	146	2954536	9.85 UG/L		99
45)	1,4-Dichlorobenzene	24.13	146	2931739	9.75 UG/L		99
46)	1,2-Dichlorobenzene	25.01	146	2217701	9.82 UG/L		99

(#) = qualifier out of range (m) = manual integration

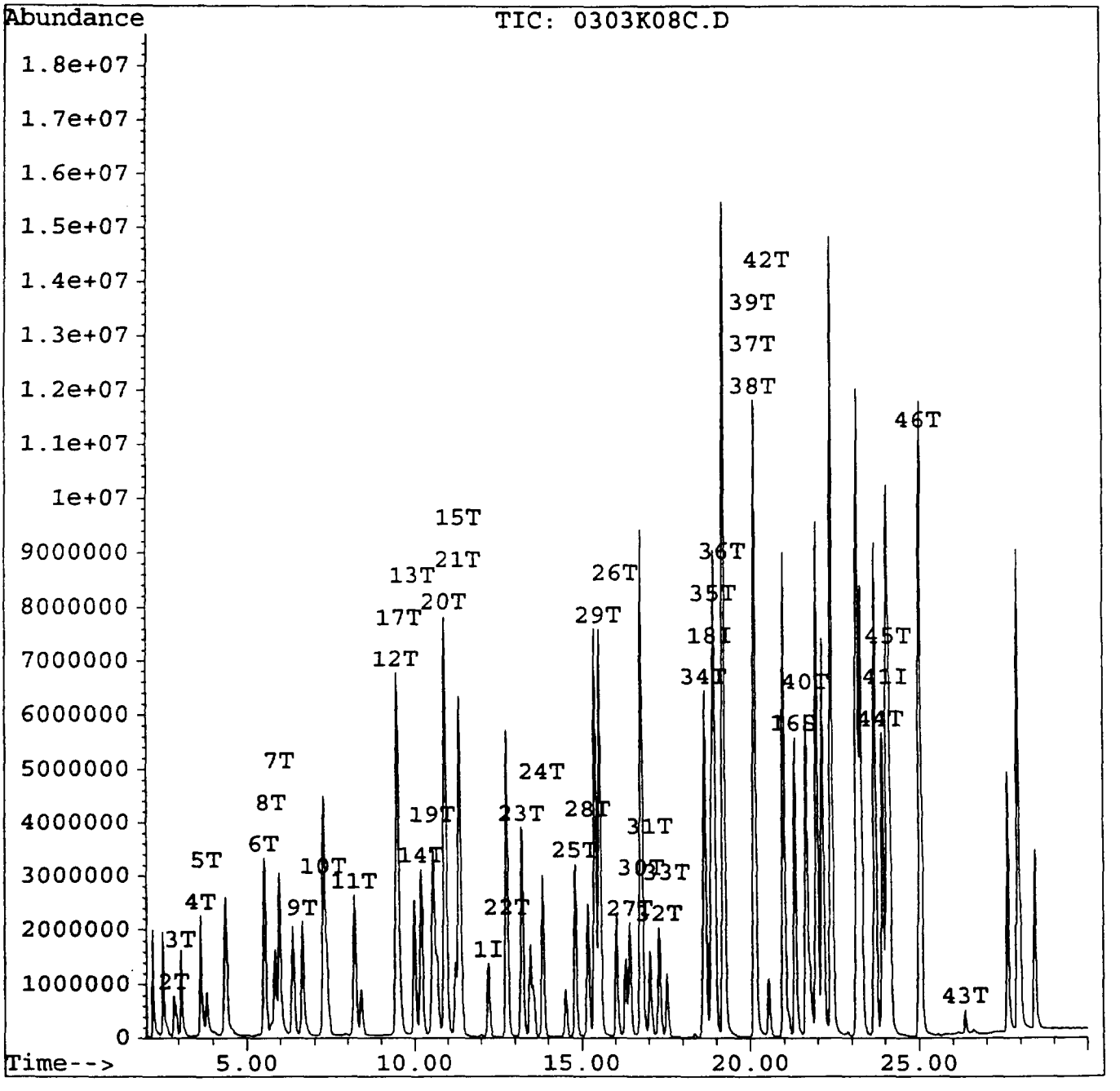
Quantitation Report

2 2 0430

Data File : c:\hpchem\1\data\95030311.b\0303k08c.d
Acq On : 3 Mar 95 3:28 pm
Sample : VSTD025 IEA MSD11
Misc :
Quant Time: Mar 6 7:08 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration



Quantitation Report

2 2 0431

Data File : c:\hpchem\1\data\95030311.b\0303k08c.d
Acq On : 3 Mar 95 3:28 pm
Sample : VSTD025 IEA MSD11
Misc :
Quant Time: Mar 6 7:08 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	12.21	114	3091015	5.00	UG/L	-0.02
18) Chlorobenzene-d5	18.87	117	2887073	5.00	UG/L	0.24
41) 1,4-Dichlorobenzene-d4	24.07	152	924695	5.00	UG/L	-0.02
System Monitoring Compounds						%Recovery
16) Bromofluorobenzene	21.34	174	4303913	22.68	UG/L	453.53%
Target Compounds						Qvalue
2) Chloromethane	2.85	50	2878319	18.58	UG/L	99
3) Vinyl Chloride	3.06	62	3670950	22.91	UG/L	99
4) Bromomethane	3.64	94	3176443	22.13	UG/L	94
5) Chloroethane	3.82	64	1987051	20.73	UG/L	99
6) 1,1-Dichloroethene	5.52	96	3767907	28.11	UG/L	100
7) Carbon Disulfide	5.96	76	11178565	26.00	UG/L	98
8) Acetone	5.72	43	892124	107.95	UG/L m	99
9) Methylene Chloride	6.64	84	2696370	26.03	UG/L	99
10) trans-1,2-Dichloroethene	7.27	96	4441143	31.24	UG/L	99
11) 1,1-Dichloroethane	8.20	63	8091932	29.87	UG/L	99
12) cis-1,2-Dichloroethene	9.48	96	4097749	30.63	UG/L #	86
13) Bromochloromethane	9.99	128	1528039	27.34	UG/L	99
14) Chloroform	10.20	83	6776811	31.07	UG/L	99
15) 1,2-Dichloroethane	11.38	62	2958936	29.63	UG/L	99
17) 2-Butanone	9.58	43	1777391	111.85	UG/L	94
19) 1,1,1-Trichloroethane	10.56	97	6990782	22.39	UG/L #	79
20) Carbon Tetrachloride	10.92	117	6117667	22.05	UG/L	100
21) Benzene	11.34	78	13563995	19.27	UG/L	100
22) Trichloroethene	12.76	95	5427352	20.09	UG/L	100
23) 1,2-Dichloropropane	13.21	63	4594475	19.91	UG/L	99
24) Bromodichloromethane	13.83	83	5544171	22.60	UG/L	100
25) cis-1,3-Dichloropropene	14.81	75	5142782	20.68	UG/L	100
26) trans-1,3-Dichloropropene	16.03	75	3317249	20.00	UG/L m	84
27) 1,1,2-Trichloroethane	16.43	97	1842088	18.66	UG/L	99
28) 4-Methyl-2-Pentanone	15.18	43	5788815	74.06	UG/L	99
29) Toluene	15.54	91	15337661	18.08	UG/L	99
30) Tetrachloroethene	16.77	166	7122936	20.34	UG/L	100
31) 2-Hexanone	17.03	43	3476576	73.22	UG/L	99
32) Dibromochloromethane	17.30	129	2968238	20.14	UG/L	99
33) 1,2-Dibromoethane	17.52	107	2347431	18.11	UG/L	99
34) Chlorobenzene	18.67	112	9557496	17.10	UG/L	98
35) Ethylbenzene	18.95	91	18146047	17.41	UG/L	100
36) m,p-Xylene	19.22	106	13441589	36.35	UG/L	100
37) o-Xylene	20.13	106	6140170	17.82	UG/L	98
38) Xylenes (total)	20.13	106	6140170	17.82	UG/L	98
39) Styrene	20.16	104	9221591	17.58	UG/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

2 2 0432

Data File : c:\hpchem\1\data\95030311.b\0303k08c.d
Acq On : 3 Mar 95 3:28 pm
Sample : VSTD025 IEA MSD11
Misc :
Quant Time: Mar 6 7:08 1995

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 07:08:35 1995
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	21.69	83	1901685	15.21 UG/L	99
42) Bromoform	20.55	173	1408230	24.03 UG/L	98
43) 1,2-Dibromo-3-chloropropan	26.37	75	293956	19.14 UG/L m	92
44) 1,3-Dichlorobenzene	23.92	146	6831644	22.51 UG/L	99
45) 1,4-Dichlorobenzene	24.13	146	6809910	22.49 UG/L	100
46) 1,2-Dichlorobenzene	25.01	146	5080144	22.31 UG/L	99

(#) = qualifier out of range (m) = manual integration

7LCA

LOW CONC. WATER VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91 2 2 0433

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Instrument ID: MSD11 Calibration Date: 03/07/95 Time: 0813

Lab File ID: 0307K01.D Init. Calibration Date(s): 03/03/95

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.205	0.179		12.6	
Bromomethane	0.233	0.209	0.100	10.2	30.0
Vinyl Chloride	0.247	0.229	0.100	7.5	30.0
Chloroethane	0.157	0.148		5.6	
Methylene Chloride	0.195	0.175		10.4	
Acetone	0.013	0.014		-10.0	
Carbon Disulfide	0.736	0.674		8.4	
1,1-Dichloroethene	0.244	0.217	0.100	11.0	30.0
1,1-Dichloroethane	0.543	0.492	0.200	9.4	30.0
cis-1,2-Dichloroethene	0.275	0.250		9.1	
trans-1,2-Dichloroethene	0.291	0.258		11.4	
Chloroform	0.463	0.427	0.200	7.7	30.0
1,2-Dichloroethane	0.206	0.198	0.100	3.9	30.0
2-Butanone	0.026	0.029		-9.4	
Bromochloromethane	0.107	0.102	0.050	4.9	30.0
1,1,1-Trichloroethane	0.649	0.594	0.100	8.6	30.0
Carbon Tetrachloride	0.564	0.526	0.100	6.6	30.0
Bromodichloromethane	0.511	0.508	0.200	0.6	30.0
1,2-Dichloropropane	0.439	0.420		4.3	
cis-1,3-Dichloropropene	0.468	0.467	0.200	0.1	30.0
Trichloroethene	0.498	0.457	0.300	8.2	30.0
Dibromochloromethane	0.264	0.274	0.100	-4.0	30.0
1,1,2-Trichloroethane	0.178	0.178	0.100	0.0	30.0
Benzene	1.267	1.192	0.500	5.9	30.0
trans-1,3-Dichloropropene	0.300	0.308	0.100	-2.5	30.0
Bromoform	0.289	0.271	0.050	6.4	30.0
4-Methyl-2-Pentanone	0.119	0.134		-13.2	
2-Hexanone	0.075	0.081		-7.8	
Tetrachloroethene	0.648	0.594	0.200	8.4	30.0
1,1,2,2-Tetrachloroethane	0.196	0.206	0.100	-5.3	30.0
1,2-Dibromoethane	0.225	0.226	0.100	-0.3	30.0
Toluene	1.421	1.331	0.400	6.3	30.0
Chlorobenzene	0.906	0.880	0.500	2.8	30.0
Ethylbenzene	1.690	1.586	0.100	6.1	30.0
Styrene	0.865	0.864	0.300	0.1	30.0
Xylenes (total)	0.576	0.560	0.300	2.8	30.0
1,3-Dichlorobenzene	1.566	1.354	0.600	13.6	30.0
1,4-Dichlorobenzene	1.574	1.377	0.500	12.5	30.0
1,2-Dichlorobenzene	1.179	1.032	0.400	12.5	30.0
1,2-Dibromo-3-chloropropane	0.081	0.069		14.4	
Bromofluorobenzene	0.313	0.306	0.200	2.0	30.0

All other compounds must meet a minimum RRF of 0.010.

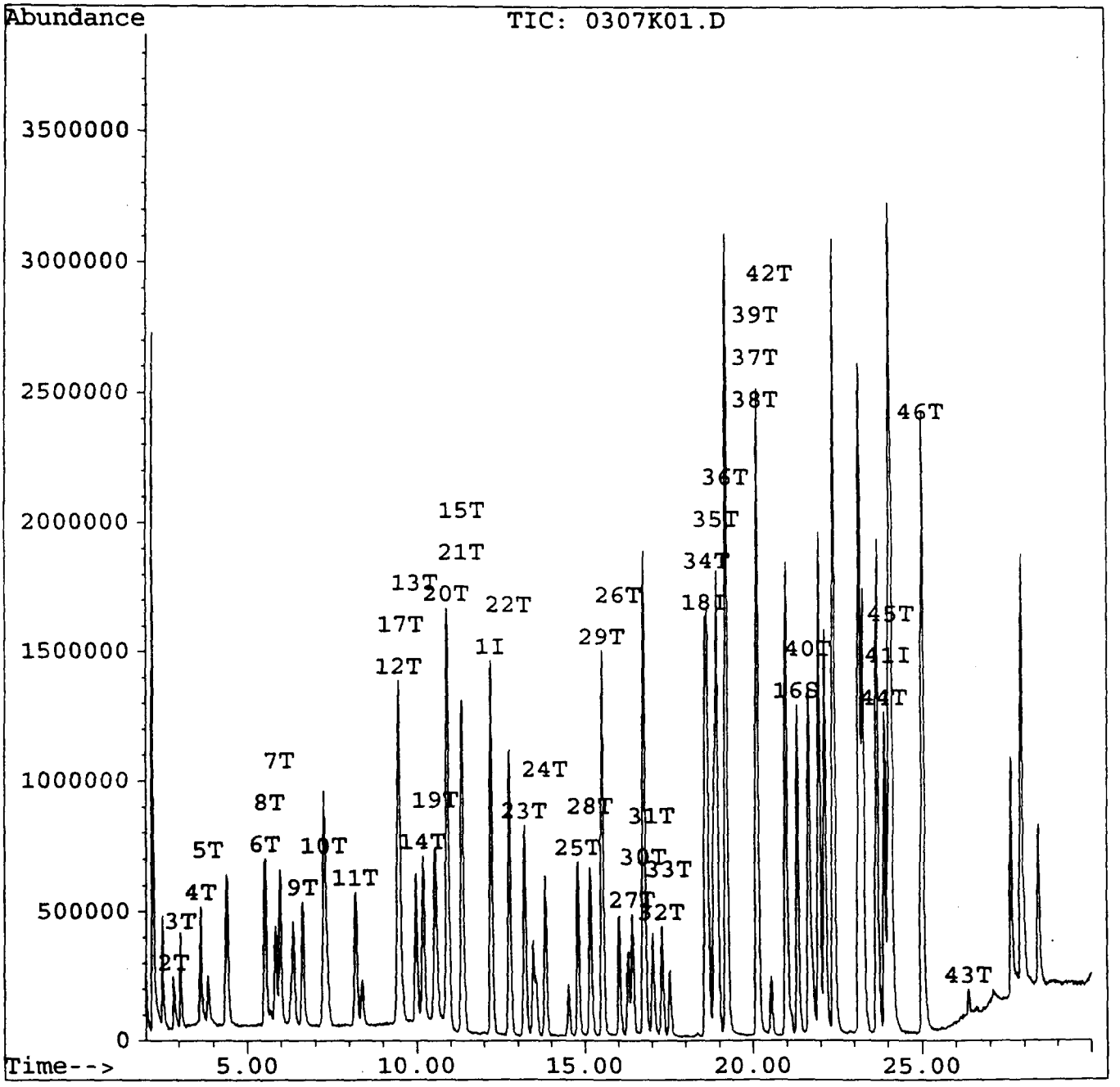
FORM VII LCV 6/91

Quantitation Report 2 2 0434

Data File : C:\HPCHEM\1\DATA\95030711.B\0307K01.D
Acq On : 7 Mar 95 8:13 am
Sample : VSTD005 IEA MSD11
Misc :
Quant Time: Mar 7 8:45 1995

Vial: 6
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030711.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 09:36:30 1995
Response via : Multiple Level Calibration



Quantitation Report

2 2 0435

Data File : C:\HPCHEM\1\DATA\95030711.B\0307K01.D
Acq On : 7 Mar 95 8:13 am
Sample : VSTD005 IEA MSD11
Misc :
Quant Time: Mar 7 8:45 1995

Vial: 6
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030711.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 09:36:30 1995
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	12.21	114	3217140	5.00 UG/L	0.00
18) Chlorobenzene-d5	18.61	117	2273368	5.00 UG/L	0.00
41) 1,4-Dichlorobenzene-d4	24.07	152	1115475	5.00 UG/L	-0.01
System Monitoring Compounds					%Recovery
16) Bromofluorobenzene	21.34	174	985343	4.90 UG/L	97.95%
Target Compounds					Qvalue
2) Chloromethane	2.85	50	575693	4.37 UG/L	98
3) Vinyl Chloride	3.05	62	735616	4.63 UG/L	99
4) Bromomethane	3.64	94	671699	4.49 UG/L m	100
5) Chloroethane	3.86	64	477238	4.72 UG/L	99
6) 1,1-Dichloroethene	5.54	96	697643	4.45 UG/L	98
7) Carbon Disulfide	5.97	76	2167616	4.58 UG/L	97
8) Acetone	5.68	43	223962	27.50 UG/L	100
9) Methylene Chloride	6.64	84	563465	4.48 UG/L	99
10) trans-1,2-Dichloroethene	7.27	96	830431	4.43 UG/L	100
11) 1,1-Dichloroethane	8.20	63	1583007	4.53 UG/L	99
12) cis-1,2-Dichloroethene	9.48	96	805063	4.55 UG/L	99
13) Bromochloromethane	9.99	128	327483	4.75 UG/L	99
14) Chloroform	10.20	83	1373302	4.61 UG/L	100
15) 1,2-Dichloroethane	11.38	62	635825	4.80 UG/L	99
17) 2-Butanone	9.57	43	461614	27.36 UG/L	100
19) 1,1,1-Trichloroethane	10.55	97	1349331	4.57 UG/L	98
20) Carbon Tetrachloride	10.91	117	1196617	4.67 UG/L	99
21) Benzene	11.35	78	2709002	4.70 UG/L	100
22) Trichloroethene	12.76	95	1039256	4.59 UG/L	100
23) 1,2-Dichloropropane	13.22	63	955386	4.78 UG/L	99
24) Bromodichloromethane	13.83	83	1155470	4.97 UG/L	99
25) cis-1,3-Dichloropropene	14.81	75	1061916	4.99 UG/L	99
26) trans-1,3-Dichloropropene	16.04	75	699878	5.13 UG/L	96
27) 1,1,2-Trichloroethane	16.43	97	403754	5.00 UG/L	97
28) 4-Methyl-2-Pentanone	15.19	43	1524925	28.29 UG/L	99
29) Toluene	15.54	91	3026840	4.69 UG/L	100
30) Tetrachloroethene	16.76	166	1349561	4.58 UG/L	99
31) 2-Hexanone	17.04	43	919249	26.95 UG/L	99
32) Dibromochloromethane	17.31	129	623079	5.20 UG/L	100
33) 1,2-Dibromoethane	17.53	107	513205	5.01 UG/L	98
34) Chlorobenzene	18.67	112	2001547	4.86 UG/L	99
35) Ethylbenzene	18.95	91	3606001	4.69 UG/L	100
36) m,p-Xylene	19.23	106	2696445	9.67 UG/L	99
37) o-Xylene	20.12	106	1273618	4.86 UG/L	98
38) Xylenes (total)	20.12	106	1273618	4.86 UG/L	98
39) Styrene	20.16	104	1965020	5.00 UG/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report 2 2 0436

Data File : C:\HPCHEM\1\DATA\95030711.B\0307K01.D Vial: 6
Acq On : 7 Mar 95 8:13 am Operator: MOORE
Sample : VSTD005 IEA MSD11 Inst : MSD11
Misc : Multiplr: 1.00
Quant Time: Mar 7 8:45 1995

Method : C:\HPCHEM\1\DATA\95030711.B\691.M
Title : IEA MSD11 6/91
Last Update : Mon Mar 06 09:36:30 1995
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40) 1,1,2,2-Tetrachloroethane	21.69	83	469055	5.26 UG/L	96
42) Bromoform	20.56	173	301974	4.68 UG/L	98
43) 1,2-Dibromo-3-chloropropan	26.36	75	77062	4.28 UG/L	94
44) 1,3-Dichlorobenzene	23.91	146	1510059	4.32 UG/L	99
45) 1,4-Dichlorobenzene	24.13	146	1536365	4.37 UG/L	99
46) 1,2-Dichlorobenzene	25.01	146	1151571	4.38 UG/L	100

(#) = qualifier out of range (m) = manual integration

7LCA

LOW CONC. WATER VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91 2 2 0437

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Instrument ID: MSD11 Calibration Date: 03/07/95 Time: 2046

Lab File ID: 0307V01.D Init. Calibration Date(s): 03/03/95

COMPOUND	$\overline{RRF}$	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.205	0.207		-1.3	
Bromomethane	0.233	0.206	0.100	11.4	30.0
Vinyl Chloride	0.247	0.256	0.100	-3.4	30.0
Chloroethane	0.157	0.167		-6.4	
Methylene Chloride	0.195	0.183		6.4	
Acetone	0.013	0.012		6.5	
Carbon Disulfide	0.736	0.736		-0.1	
1,1-Dichloroethene	0.244	0.243	0.100	0.4	30.0
1,1-Dichloroethane	0.543	0.543	0.200	0.0	30.0
cis-1,2-Dichloroethene	0.275	0.266		3.3	
trans-1,2-Dichloroethene	0.291	0.287		1.4	
Chloroform	0.463	0.455	0.200	1.7	30.0
1,2-Dichloroethane	0.206	0.204	0.100	0.8	30.0
2-Butanone	0.026	0.025		4.0	
Bromochloromethane	0.107	0.102	0.050	4.5	30.0
1,1,1-Trichloroethane	0.649	0.697	0.100	-7.4	30.0
Carbon Tetrachloride	0.564	0.643	0.100	-14.0	30.0
Bromodichloromethane	0.511	0.546	0.200	-6.8	30.0
1,2-Dichloropropane	0.439	0.457		-3.9	
cis-1,3-Dichloropropene	0.468	0.499	0.200	-6.7	30.0
Trichloroethene	0.498	0.533	0.300	-7.0	30.0
Dibromochloromethane	0.264	0.282	0.100	-7.0	30.0
1,1,2-Trichloroethane	0.178	0.189	0.100	-6.5	30.0
Benzene	1.267	1.364	0.500	-7.7	30.0
trans-1,3-Dichloropropene	0.300	0.319	0.100	-6.4	30.0
Bromoform	0.289	0.277	0.050	4.2	30.0
4-Methyl-2-Pentanone	0.119	0.127		-6.7	
2-Hexanone	0.075	0.074		2.0	
Tetrachloroethene	0.648	0.803	0.200	-23.9	30.0
1,1,2,2-Tetrachloroethane	0.196	0.204	0.100	-4.1	30.0
1,2-Dibromoethane	0.225	0.237	0.100	-5.1	30.0
Toluene	1.421	1.517	0.400	-6.8	30.0
Chlorobenzene	0.906	0.968	0.500	-6.8	30.0
Ethylbenzene	1.690	1.799	0.100	-6.5	30.0
Styrene	0.865	0.923	0.300	-6.7	30.0
Xylenes (total)	0.576	0.605	0.300	-4.9	30.0
1,3-Dichlorobenzene	1.566	1.475	0.600	5.8	30.0
1,4-Dichlorobenzene	1.574	1.520	0.500	3.4	30.0
1,2-Dichlorobenzene	1.179	1.099	0.400	6.8	30.0
1,2-Dibromo-3-chloropropane	0.081	0.073		8.9	
Bromofluorobenzene	0.313	0.282	0.200	9.9	30.0

All other compounds must meet a minimum RRF of 0.010.

FORM VII LCV 6/91

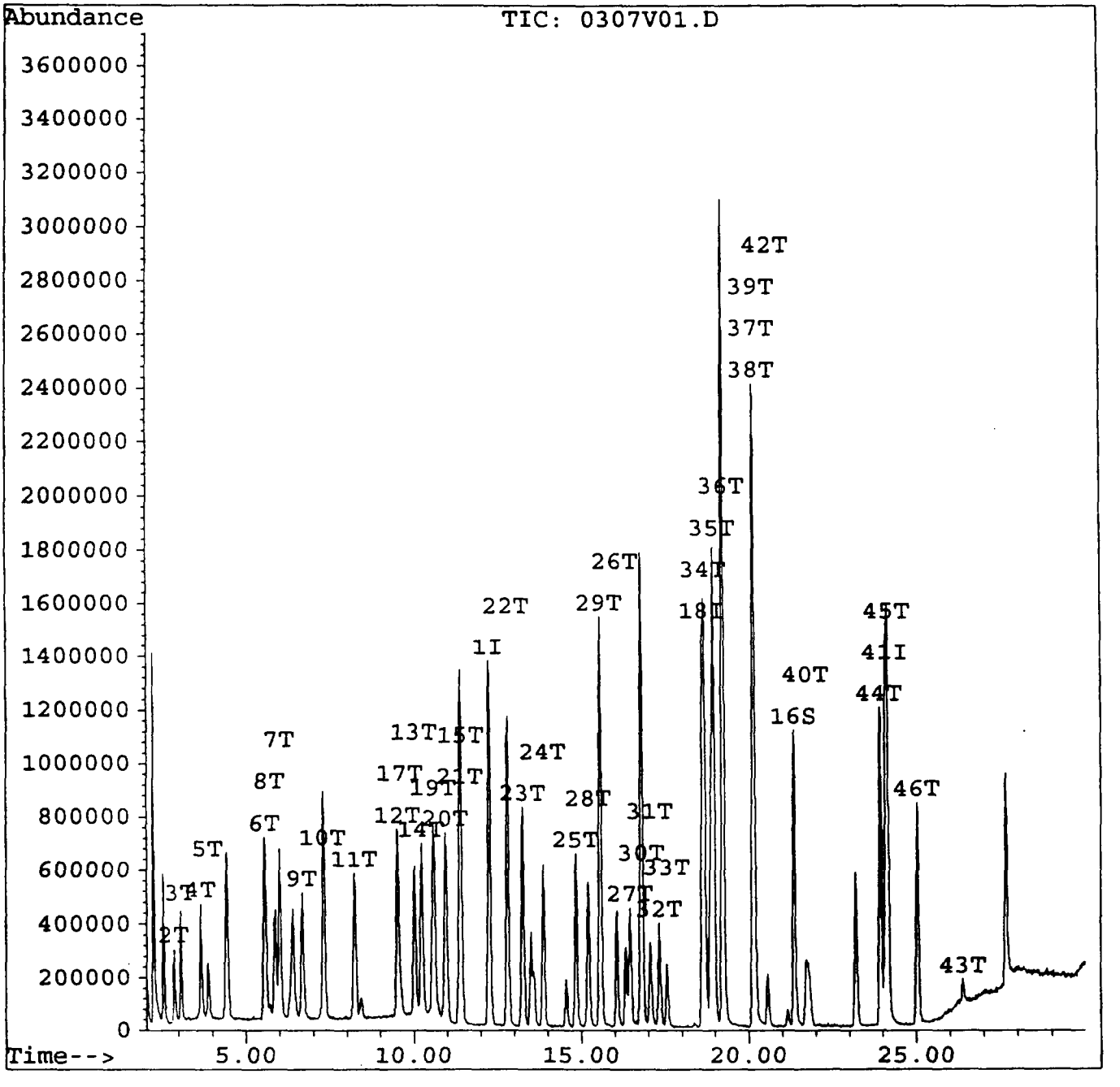
Quantitation Report

2 2 0433

Data File : C:\HPCHEM\1\DATA\950307V.B\0307V01.D
Acq On : 7 Mar 95 8:46 pm
Sample : VSTD050 IEA MSD11
Misc :
Quant Time: Mar 7 21:19 1995

Vial: 5
Operator: CREWES
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\950307V.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 21:23:09 1995
Response via : Single Level Calibration



1 047

Quantitation Report

2 2 0439

Data File : C:\HPCHEM\1\DATA\950307V.B\0307V01.D
Acq On : 7 Mar 95 8:46 pm
Sample : VSTD050 IEA MSD11
Misc :
Quant Time: Mar 7 21:19 1995

Vial: 5
Operator: CREWES
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\950307V.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 21:23:09 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	12.25	114	3061316	5.00 UG/L	0.04
18) Chlorobenzene-d5	18.63	117	2038687	5.00 UG/L	0.03
41) 1,4-Dichlorobenzene-d4	24.09	152	947793	5.00 UG/L	0.02
System Monitoring Compounds					%Recovery
16) Bromofluorobenzene	21.36	174	862438	4.60 UG/L	91.98%
Target Compounds					Qvalue
2) Chloromethane	2.86	50	634882	5.79 UG/L	98
3) Vinyl Chloride	3.06	62	782198	5.59 UG/L	98
4) Bromomethane	3.66	94	630995	4.94 UG/L	99
5) Chloroethane	3.89	64	511904	5.64 UG/L	96
6) 1,1-Dichloroethene	5.56	96	742991	5.60 UG/L	99
7) Carbon Disulfide	6.00	76	2253876	5.46 UG/L	100
8) Acetone	5.72	43	181148	21.25 UG/L	98
9) Methylene Chloride	6.66	84	559959	5.22 UG/L	99
10) trans-1,2-Dichloroethene	7.30	96	879081	5.56 UG/L	99
11) 1,1-Dichloroethane	8.23	63	1662282	5.52 UG/L	99
12) cis-1,2-Dichloroethene	9.52	96	814794	5.32 UG/L #	86
13) Bromochloromethane	10.02	128	313039	5.02 UG/L	99
14) Chloroform	10.23	83	1391894	5.33 UG/L	100
15) 1,2-Dichloroethane	11.41	62	624541	5.16 UG/L	100
17) 2-Butanone	9.60	43	385281	21.93 UG/L	98
19) 1,1,1-Trichloroethane	10.59	97	1421692	5.87 UG/L	99
20) Carbon Tetrachloride	10.95	117	1310137	6.10 UG/L	100
21) Benzene	11.38	78	2781489	5.72 UG/L	100
22) Trichloroethene	12.80	95	1086372	5.83 UG/L	99
23) 1,2-Dichloropropane	13.24	63	930733	5.43 UG/L	100
24) Bromodichloromethane	13.87	83	1112816	5.37 UG/L	100
25) cis-1,3-Dichloropropene	14.84	75	1017107	5.34 UG/L	99
26) trans-1,3-Dichloropropene	16.06	75	651068	5.19 UG/L	99
27) 1,1,2-Trichloroethane	16.46	97	385428	5.32 UG/L	98
28) 4-Methyl-2-Pentanone	15.21	43	1289551	23.57 UG/L	100
29) Toluene	15.57	91	3093330	5.70 UG/L	100
30) Tetrachloroethene	16.79	166	1636441	6.76 UG/L	99
31) 2-Hexanone	17.06	43	749248	22.72 UG/L	99
32) Dibromochloromethane	17.33	129	575165	5.15 UG/L	99
33) 1,2-Dibromoethane	17.55	107	482628	5.24 UG/L	98
34) Chlorobenzene	18.70	112	1973716	5.50 UG/L	100
35) Ethylbenzene	18.97	91	3667922	5.67 UG/L	100
36) m,p-Xylene	19.25	106	2692602	11.14 UG/L	99
37) o-Xylene	20.16	106	1232506	5.40 UG/L	97
38) Xylenes (total)	20.16	106	1232506	5.40 UG/L	97
39) Styrene	20.19	104	1882011	5.34 UG/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\950307V.B\0307V01.D
Acq On : 7 Mar 95 8:46 pm
Sample : VSTD050 IEA MSD11
Misc :
Quant Time: Mar 7 21:19 1995

Vial: 5
Operator: CREWES
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\950307V.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 21:23:09 1995
Response via : Single Level Calibration

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
40)	1,1,2,2-Tetrachloroethane	21.71	83	415938	4.94 UG/L	96
42)	Bromoform	20.57	173	262665	5.12 UG/L	97
43)	1,2-Dibromo-3-chloropropan	26.37	75	69648	5.32 UG/L	93
44)	1,3-Dichlorobenzene	23.94	146	1398366	5.45 UG/L	99
45)	1,4-Dichlorobenzene	24.15	146	1440935	5.52 UG/L	99
46)	1,2-Dichlorobenzene	25.03	146	1041324	5.32 UG/L	99

(#) = qualifier out of range (m) = manual integration

BFB 1/91

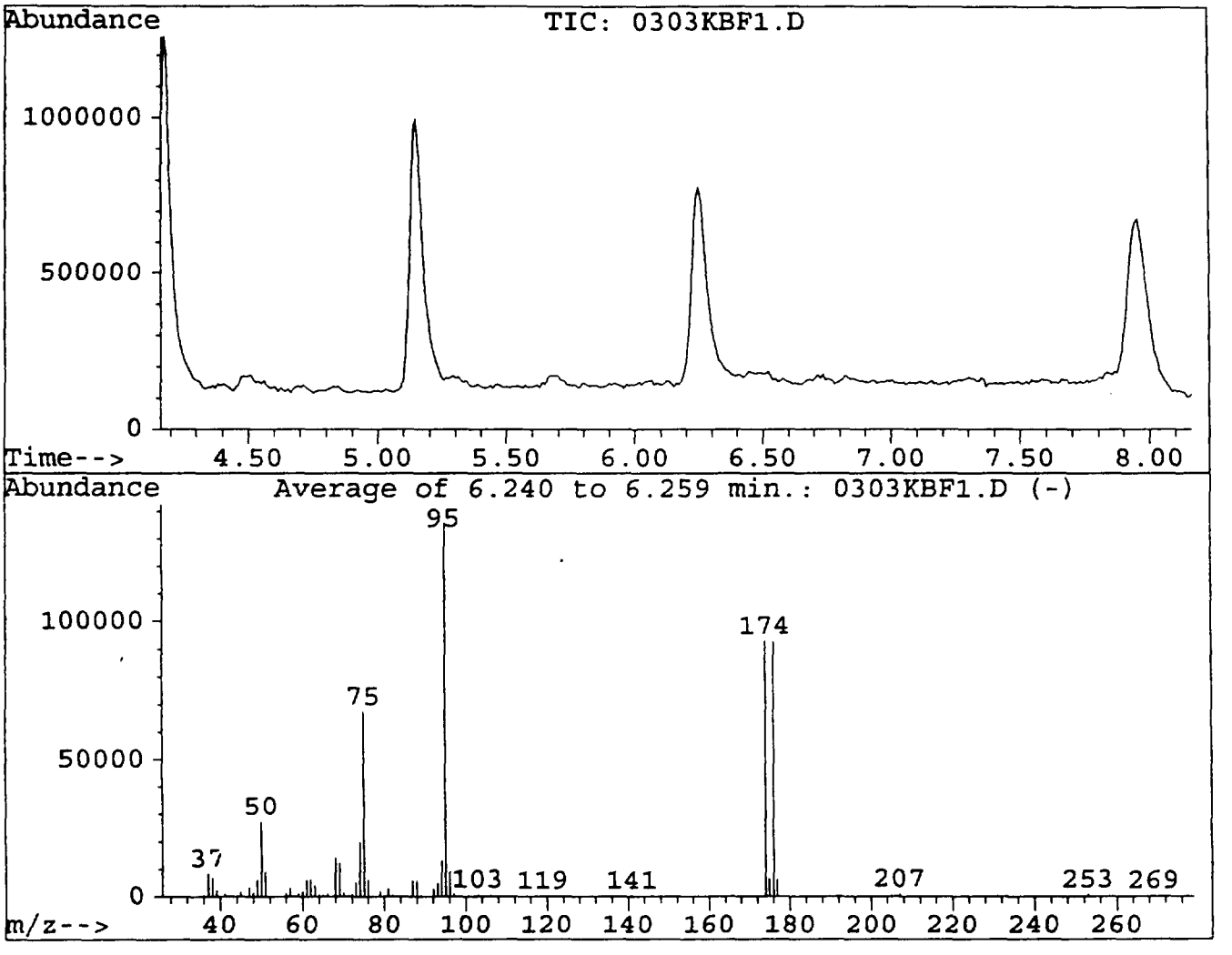
2 2 0441

Data File : C:\HPCHEM\1\DATA\95030311.B\0303KBF1.D
Acq On : 3 Mar 95 11:35 am
Sample : BFB TUNE 50NG IEA MSD11
Misc :

Vial: 1
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030311.B\CLPBFB.M
Title : BFB TUNE METHOD

Cal Curve



Peak Apex is scan: 229
Average of 3 scans: 228,229,230 minus background scan 220

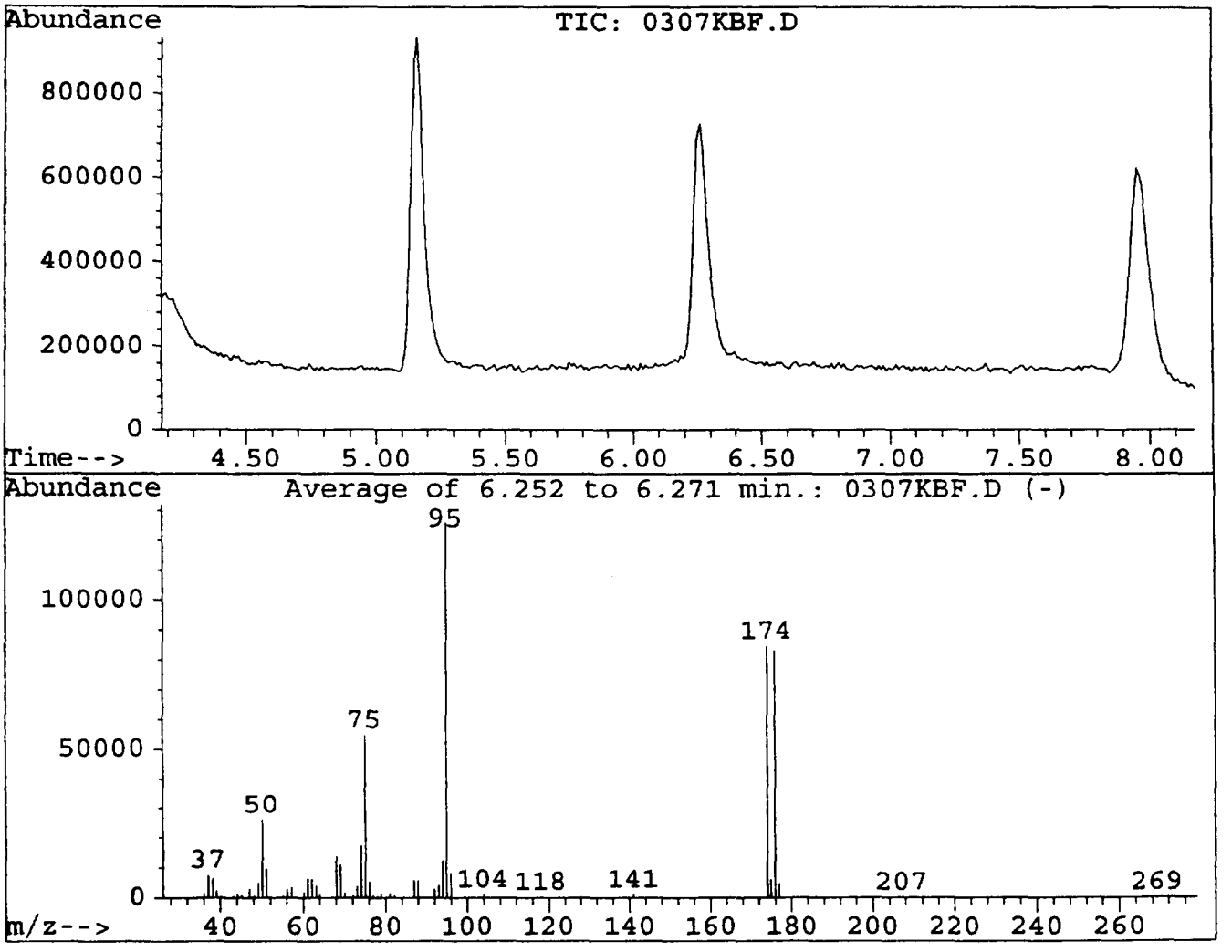
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Relative Abundance%	Raw Abundance	Result Pass/Fail
50	95	8	40	20.1	27222	PASS
75	95	30	66	49.7	67405	PASS
95	95	100	100	100.0	135701	PASS
96	95	5	9	6.8	9267	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	68.4	92835	PASS
175	174	4	9	7.2	6664	PASS
176	174	93	101	99.7	92547	PASS
177	176	5	9	6.9	6427	PASS

BFB 1/91

Data File : C:\HPCHEM\1\DATA\95030711.B\0307KBF.D
Acq On : 7 Mar 95 7:42 am
Sample : BFB TUNE 50NG IEA MSD11
Misc :

Vial: 6
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030711.B\CLPBFB.M
Title : BFB TUNE METHOD



Peak Apex is scan: 230
Average of 3 scans: 229,230,231 minus background scan 221

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Relative Abundance%	Raw Abundance	Result Pass/Fail
50	95	8	40	20.8	26139	PASS
75	95	30	66	43.4	54675	PASS
95	95	100	100	100.0	125840	PASS
96	95	5	9	6.8	8496	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	67.2	84624	PASS
175	174	4	9	7.3	6136	PASS
176	174	93	101	98.2	83136	PASS
177	176	5	9	5.7	4748	PASS

BFB 1/91

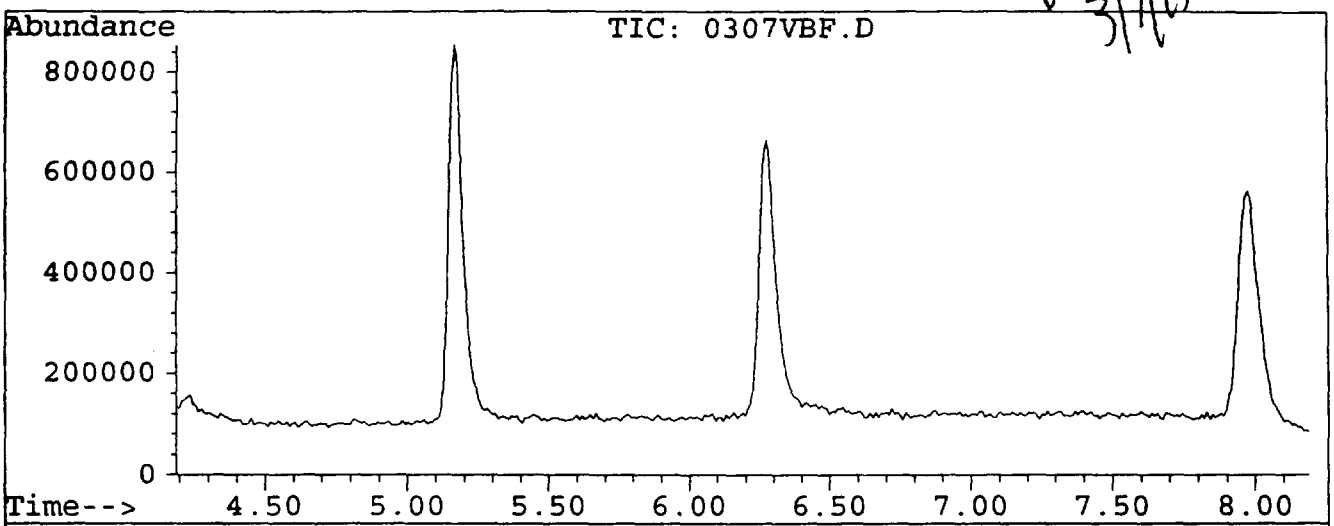
2 2 0443

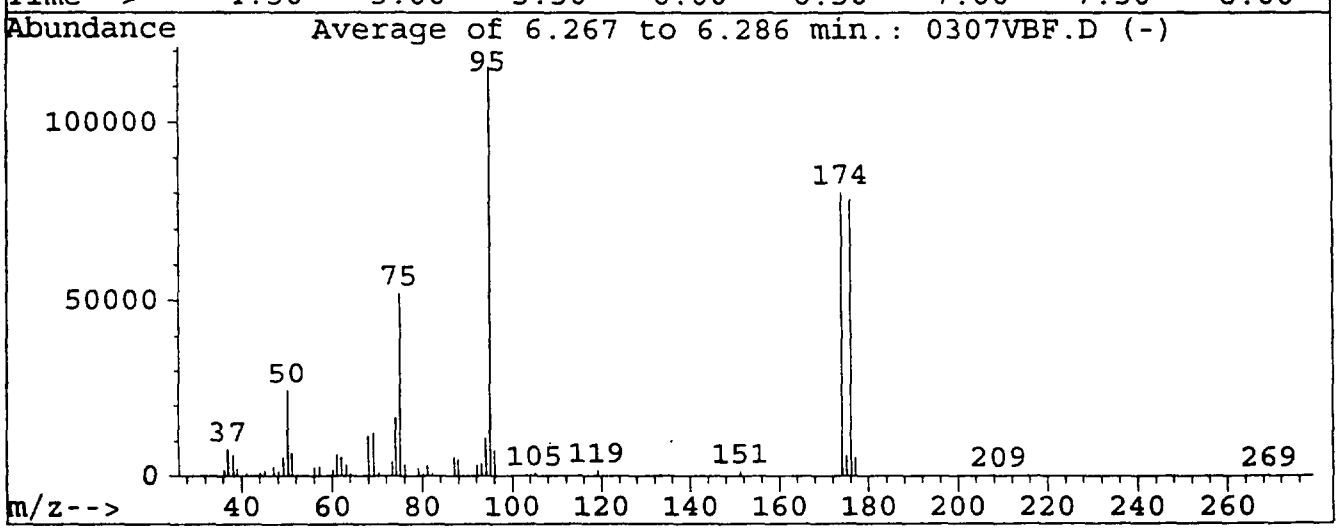
Data File : C:\HPCHEM\1\DATA\950307V.B\0307VBF.D
Acq On : 7 Mar 95 8:10 pm
Sample : BFB TUNE 50ng IEA MSD11
Misc :

Vial: 5
Operator: CREWES
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\950307V.B\CLPBFB.M
Title : BFB TUNE METHOD

DWC 3/7/95 691 clp





Peak Apex is scan: 232
Average of 3 scans: 231,232,233 minus background scan 223

3/8/95

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Relative Abundance%	Raw Abundance	Result Pass/Fail
50	95	8	40	21.1	24389	PASS
75	95	30	66	45.0	52056	PASS
95	95	100	100	100.0	115621	PASS
96	95	5	9	6.2	7142	PASS
173	174	0	2	0.0	0	PASS
174	95	50	120	69.5	80403	PASS
175	174	4	9	7.3	5881	PASS
176	174	93	101	97.4	78317	PASS
177	176	5	9	6.6	5207	PASS

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKKV

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: VBLKKV Date Received: / /

Lab File ID: 0307K03.D Date Analyzed: 03/07/95

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

2 2 0445

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKKV

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: VBLKKV Date Received: / /

Lab File ID: 0307K03.D Date Analyzed: 03/07/95

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

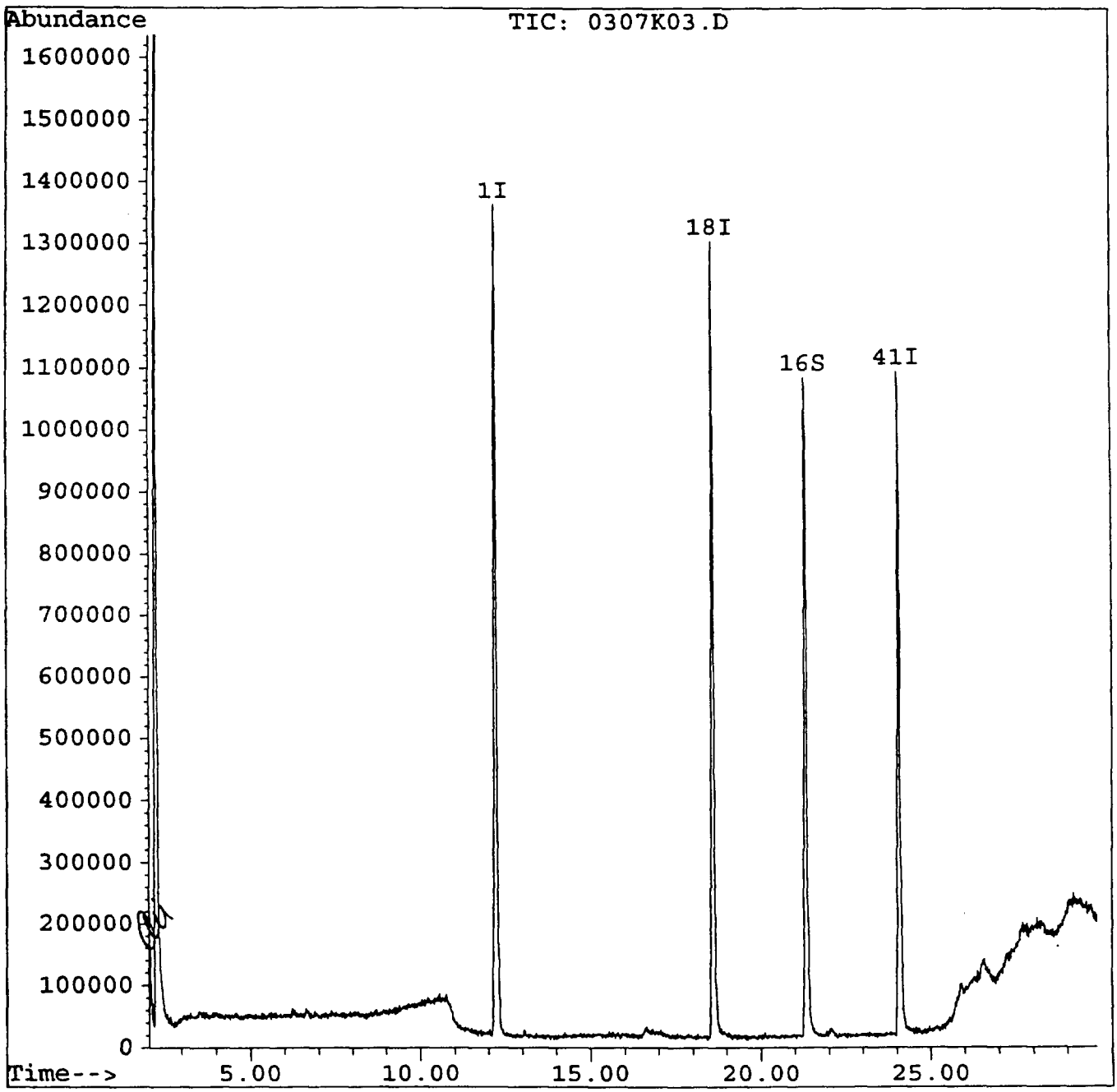
Quantitation Report

2 2 0446

Data File : C:\HPCHEM\1\DATA\95030711.B\0307K03.D
Acq On : 7 Mar 95 9:48 am
Sample : VBLKKV IEA MSD11
Misc :
Quant Time: Mar 7 10:44 1995

Vial: 6
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030711.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 10:13:14 1995
Response via : Single Level Calibration



1 055

Quantitation Report 2 2 0447

Data File : C:\HPCHEM\1\DATA\95030711.B\0307K03.D
Acq On : 7 Mar 95 9:48 am
Sample : VBLKKV IEA MSD11
Misc :
Quant Time: Mar 7 10:44 1995

Vial: 6
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030711.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 10:13:14 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	12.22	114	2944686	5.00 UG/L	0.00
18) Chlorobenzene-d5	18.60	117	2073793	5.00 UG/L	0.00
41) 1,4-Dichlorobenzene-d4	24.08	152	902509	5.00 UG/L	0.00
System Monitoring Compounds					**%Recovery**
16) Bromofluorobenzene	21.33	174	839357	4.65 UG/L	93.07%
Target Compounds					**Qvalue**

(#) = qualifier out of range (m) = manual integration

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKKW

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: VBLKKW Date Received: / /

Lab File ID: 0307V03.D Date Analyzed: 03/07/95

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	0.1	J
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U

2 2 0449

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKKW

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: VBLKKW Date Received: / /

Lab File ID: 0307V03.D Date Analyzed: 03/07/95

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

Number TICs found: 0

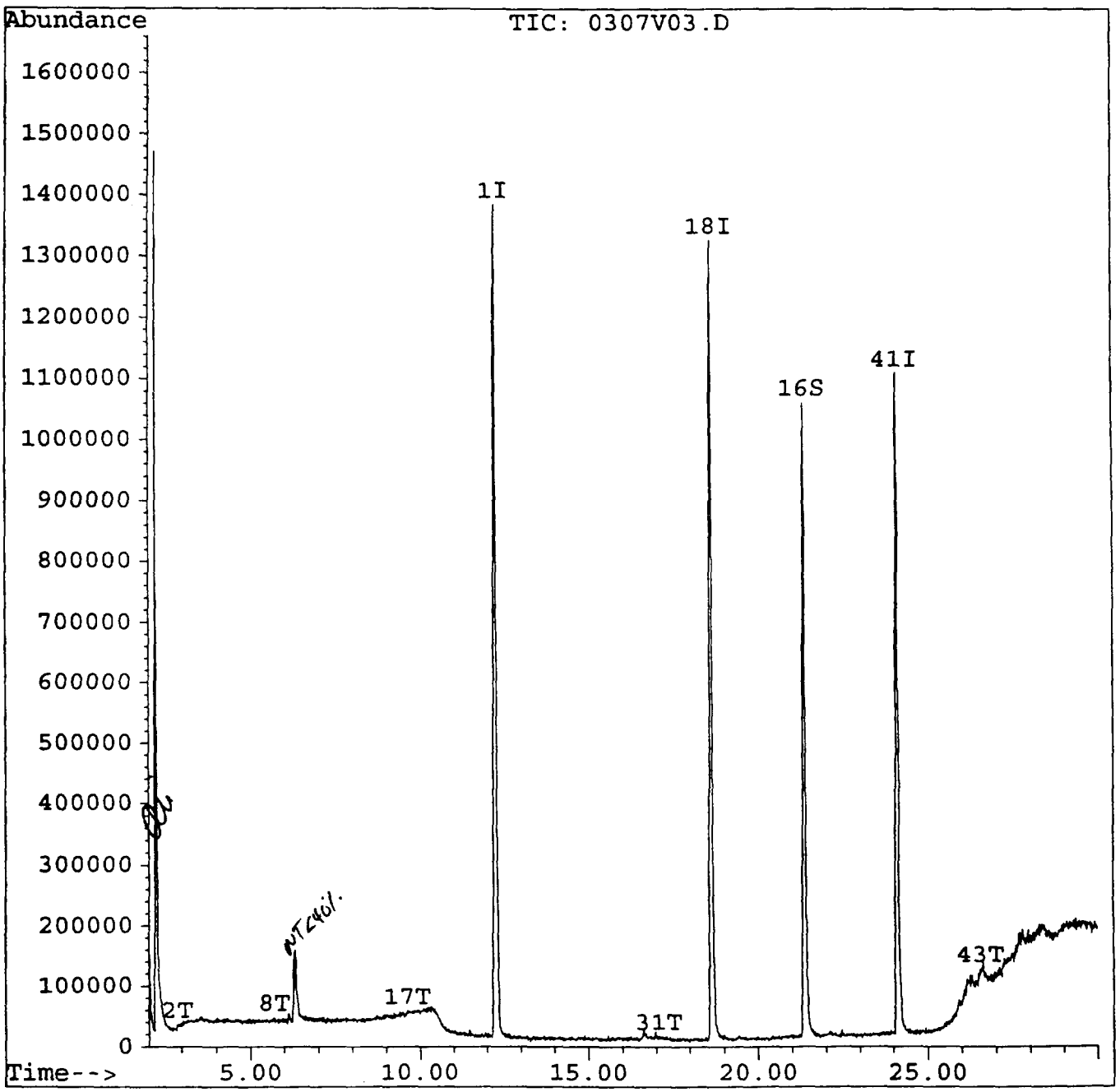
CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report 2 2 0450

Data File : C:\HPCHEM\1\DATA\950307V.B\0307V03.D
Acq On : 7 Mar 95 10:31 pm
Sample : VBLKKW IEA MSD11
Misc :
Quant Time: Mar 7 23:01 1995

Vial: 1
Operator: CREWES
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\950307V.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 21:23:09 1995
Response via : Single Level Calibration



Quantitation Report 2 2 0451

Data File : C:\HPCHEM\1\DATA\950307V.B\0307V03.D
Acq On : 7 Mar 95 10:31 pm
Sample : VBLKKW IEA MSD11
Misc :
Quant Time: Mar 7 23:01 1995

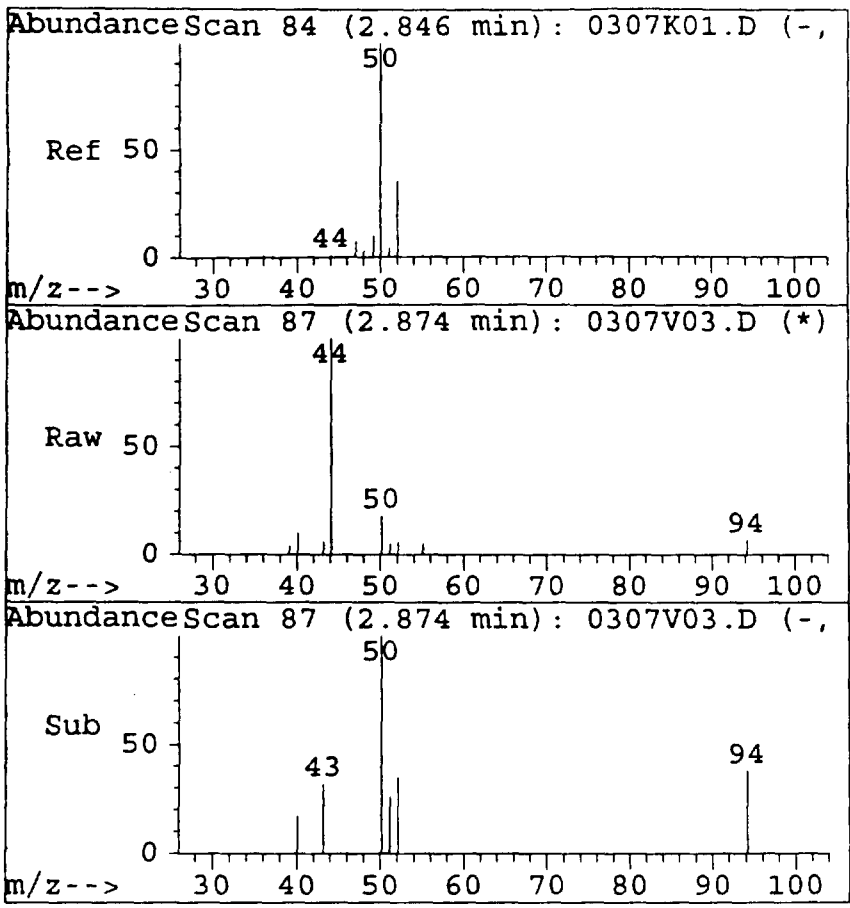
Vial: 1
Operator: CREWES
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\950307V.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 21:23:09 1995
Response via : Single Level Calibration✓

DWC 3/7/95

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	12.25	114	3050799	5.00 UG/L	0.00
18) Chlorobenzene-d5	18.64	117	2071090	5.00 UG/L	0.00
41) 1,4-Dichlorobenzene-d4	24.10	152	893639	5.00 UG/L	0.00
System Monitoring Compounds					%Recovery
16) Bromofluorobenzene	21.37	174	819930	✓4.77 UG/L	95.40%
Target Compounds					Qvalue
2) Chloromethane	2.87	50	14784	0.12 UG/L .1J	77
8) Acetone	5.69	43	5674	~~0.79 UG/L~~ #4	46
17) 2-Butanone	9.63	43	7535	~~0.49 UG/L~~ #	55
31) 2-Hexanone	17.07	43	5444	~~0.18 UG/L~~ #	35
43) 1,2-Dibromo-3-chloropropan	26.58	75	2786	~~0.21 UG/L~~ #	9

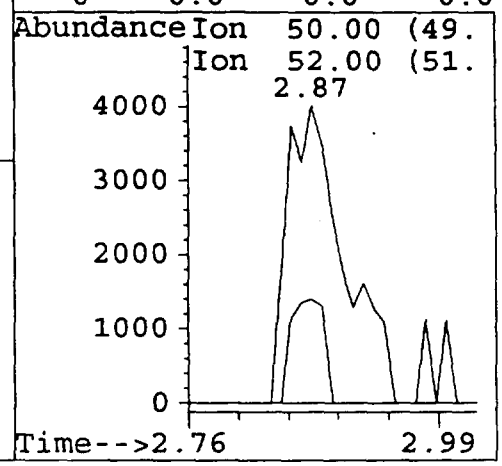
(#) = qualifier out of range (m) = manual integration

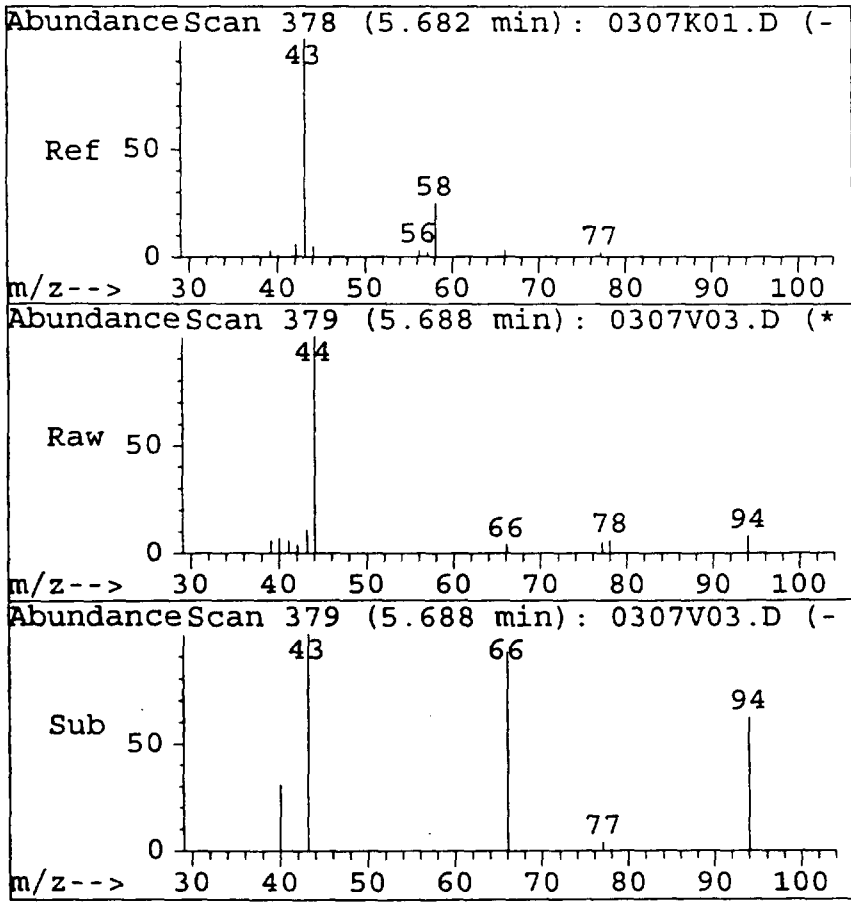


#2
Chloromethane
Concen: 0.12 UG/L
RT: 2.87 min Scan# 87
Delta R.T. 0.02 min
Lab File: 0307V03.D
Acq: 7 Mar 95 10:31 pm

Tgt Ion:50 Resp: 14784

Ion	Ratio	Lower	Upper
50	100		
52	20.4	13.5	53.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

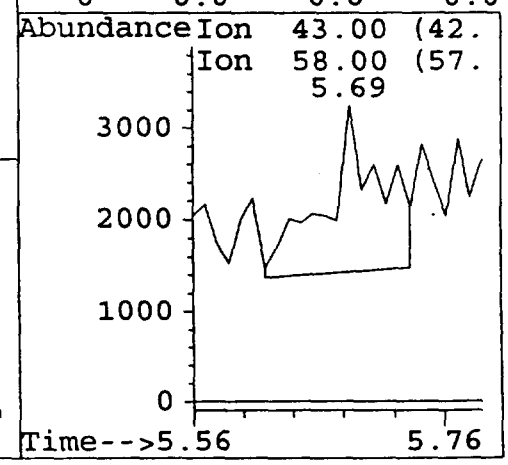




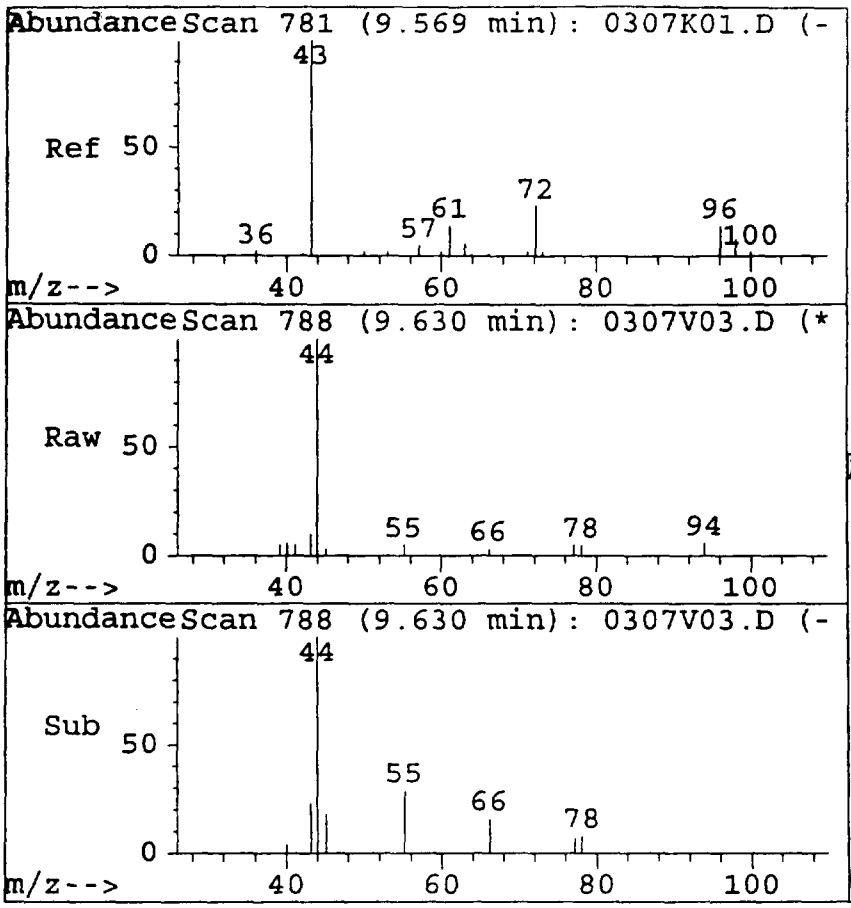
#8
Acetone
Concen: 0.79 UG/L
RT: 5.69 min Scan# 379
Delta R.T. -0.03 min
Lab File: 0307V03.D
Acq: 7 Mar 95 10:31 pm

Tgt Ion:43 Resp: 5674

Ion	Ratio	Lower	Upper
43	100		
58	0.0	8.6	48.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



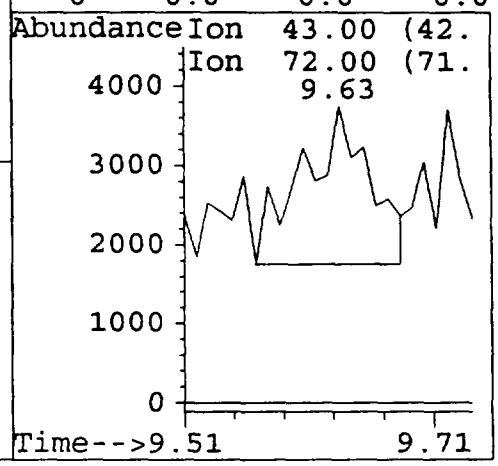
VblKW 19A

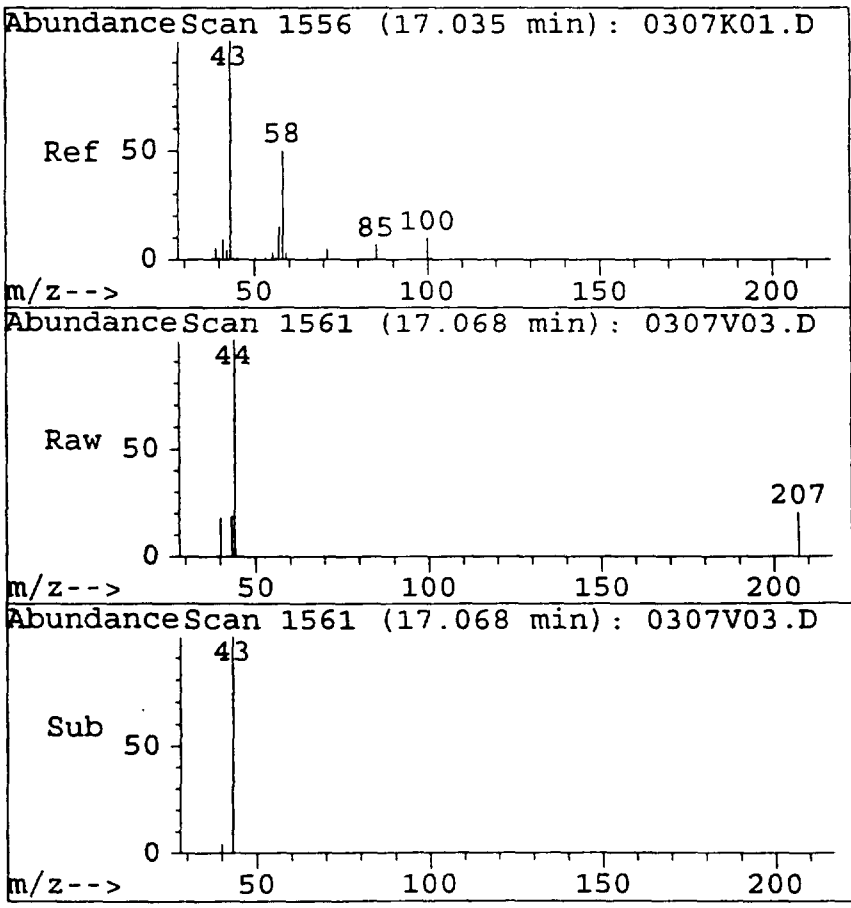


#17
2-Butanone
Concen: 0.49 UG/L
RT: 9.63 min Scan# 788
Delta R.T. 0.03 min
Lab File: 0307V03.D
Acq: 7 Mar 95 10:31 pm

Tgt Ion:43 Resp: 7535

Ion	Ratio	Lower	Upper
43	100		
72	0.0	1.0	41.0#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

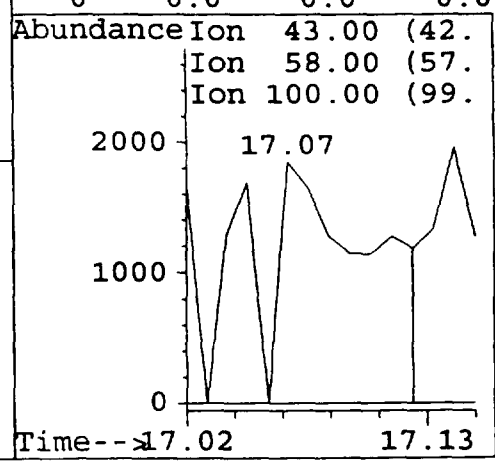




#31
2-Hexanone
Concen: 0.18 UG/L
RT: 17.07 min Scan# 1561
Delta R.T. 0.01 min
Lab File: 0307V03.D
Acq: 7 Mar 95 10:31 pm

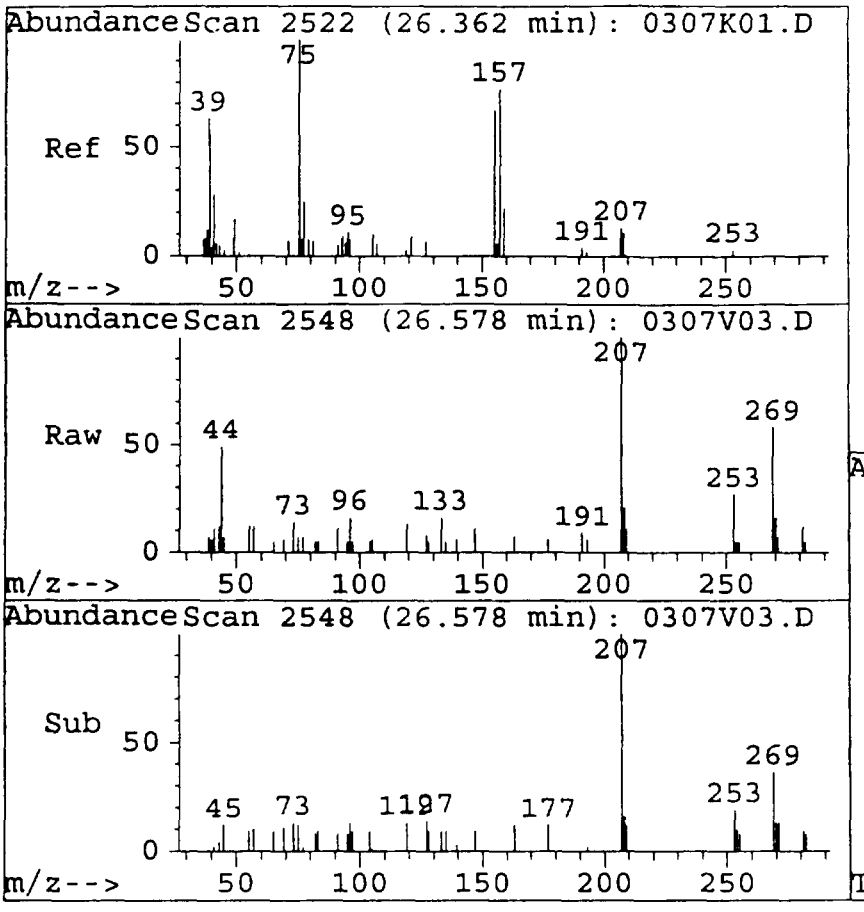
Tgt Ion:43 Resp: 5444

Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.2	70.2#
100	0.0	0.0	29.3
0	0.0	0.0	0.0



Unknown IEA

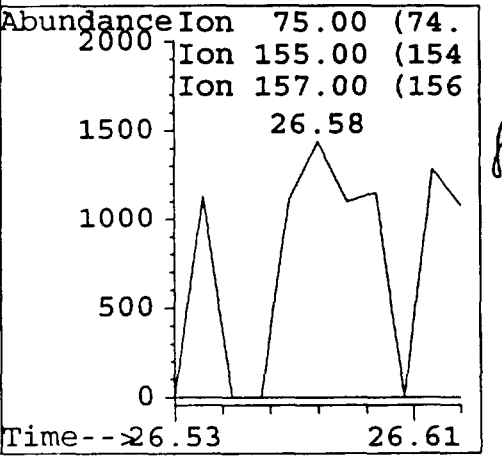
2 2 0454



#43
1,2-Dibromo-3-chloropropane
Concen: 0.21 UG/L
RT: 26.58 min Scan# 2548
Delta R.T. 0.21 min
Lab File: 0307V03.D
Acq: 7 Mar 95 10:31 pm

Tgt Ion:75 Resp: 2786

Ion	Ratio	Lower	Upper
75	100		
155	0.0	53.0	93.0#
157	0.0	65.8	105.8#
0	0.0	0.0	0.0



0307V03.D 691.M Tue Mar 07 23:02:10 1995 MSD11 Page 5
1 063

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

2 2 0455

CLIENT SAMPLE NO.

VLCSKV

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: VLCSKV Date Received: / /

Lab File ID: 0307K04.D Date Analyzed: 03/07/95

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

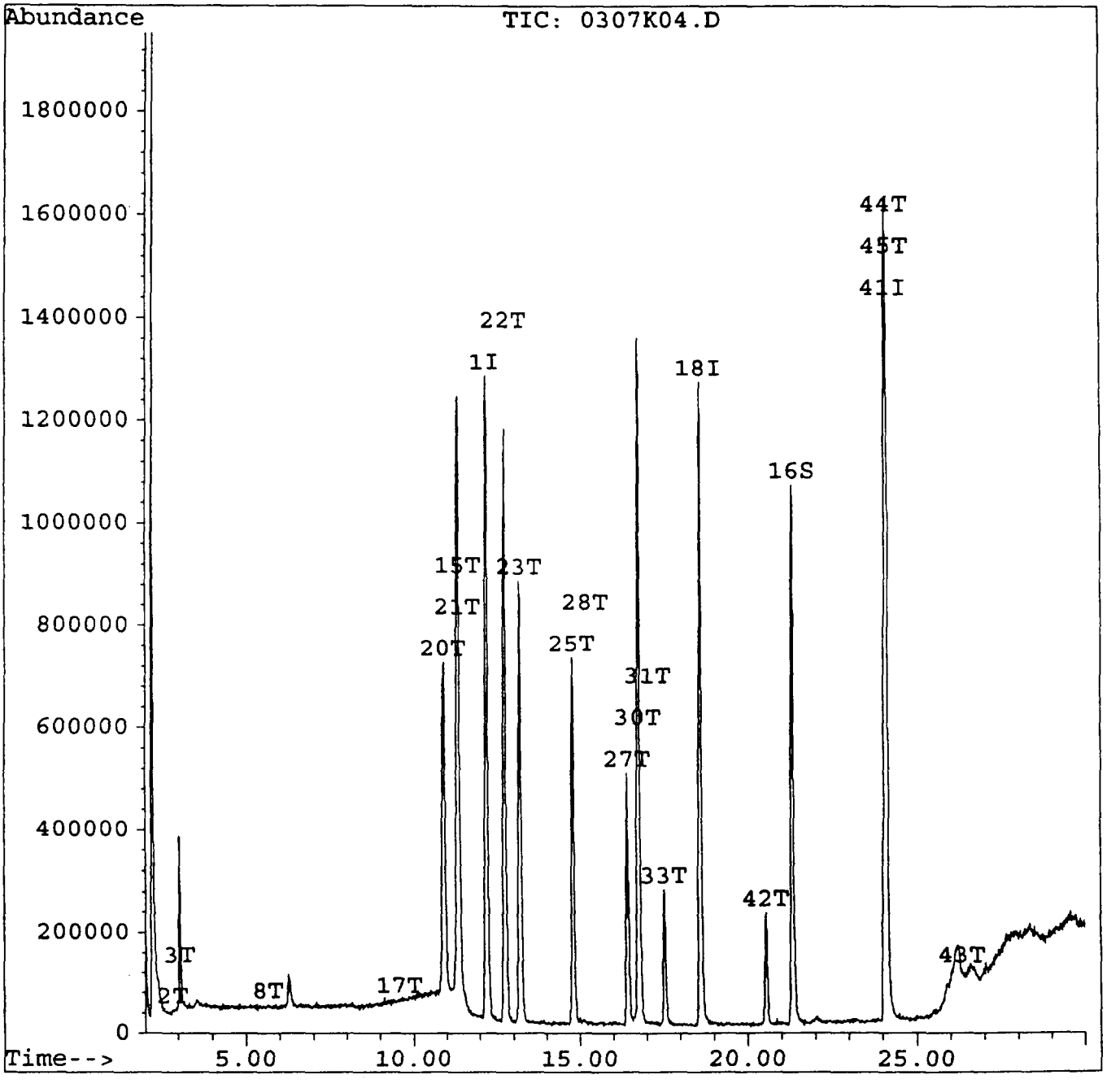
CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	0.2	J
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	5	
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-4	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	6	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	6	
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	6	
10061-01-5	cis-1,3-Dichloropropene	6	
79-01-6	Trichloroethene	6	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	6	
71-43-2	Benzene	5	
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	6	
108-10-1	4-Methyl-2-Pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	6	
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	6	
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U

Quantitation Report 2 2 0456

Data File : C:\HPCHEM\1\DATA\95030711.B\0307K04.D
Acq On : 7 Mar 95 10:29 am
Sample :√LCSKV IEA MSD11
Misc :
Quant Time: Mar 7 11:00 1995

Vial: 6
Operator: MOORE
Inst : MSD11
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\95030711.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 10:18:51 1995
Response via : Single Level Calibration



1 065

Quantitation Report 2 2 0457

Data File : C:\HPCHEM\1\DATA\95030711.B\0307K04.D Vial: 6
Acq On : 7 Mar 95 10:29 am Operator: MOORE
Sample : VLCSKV IEA MSD11 Inst : MSD11
Misc : Multiplr: 1.00
Quant Time: Mar 7 11:00 1995

Method : C:\HPCHEM\1\DATA\95030711.B\691.M
Title : IEA MSD11 6/91
Last Update : Tue Mar 07 10:18:51 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	12.20	114	2785938	5.00 UG/L	-0.02
18) Chlorobenzene-d5	18.60	117	1994468	5.00 UG/L	0.00
41) 1,4-Dichlorobenzene-d4	24.07	152	887682	5.00 UG/L	0.00

System Monitoring Compounds					%Recovery
16) Bromofluorobenzene	21.34	174	828041	4.85 UG/L	97.04%

Target Compounds					Qvalue
2) Chloromethane	2.86	50	15765	0.16 UG/L #	41
3) Vinyl Chloride (5)	3.05	62	697437	5.47 UG/L	100
8) Acetone	5.67	43	7077 FP	~~0.91~~ UG/L #	46
15) 1,2-Dichloroethane (6)	11.38	62	613399	5.57 UG/L	99
17) 2-Butanone	9.58	43	3191 FP	~~0.20 UG~~/L #	55
20) Carbon Tetrachloride (6)	10.91	117	1231447	5.87 UG/L	99
21) Benzene (5)	11.34	78	2450991	5.16 UG/L	100
22) Trichloroethene (6)	12.75	95	1094218	6.00 UG/L	99
23) 1,2-Dichloropropane (6)	13.20	63	994893	5.93 UG/L	100
25) cis-1,3-Dichloropropene (6)	14.80	75	1119848	6.01 UG/L	99
27) 1,1,2-Trichloroethane (6)	16.43	97	458537	6.47 UG/L	97
28) 4-Methyl-2-Pentanone	15.20	43	8875 FP	~~0.17 UG~~/L #	46
30) Tetrachloroethene (9)	16.77	166	1223044	5.16 UG/L	99
31) 2-Hexanone	17.05	43	7495 FP	~~0.23 UG~~/L #	35
33) 1,2-Dibromoethane (6)	17.53	107	542638	6.03 UG/L	99
42) Bromoform (6)	20.55	173	292228	6.08 UG/L	98
43) 1,2-Dibromo-3-chloropropan	26.35	75	5076 FP	~~0.41~~ UG/L #	9
44) 1,3-Dichlorobenzene	24.13	146	1471069 FP	~~6.12 UG/L~~	99
45) 1,4-Dichlorobenzene (6)	24.13	146	1475595	6.03 UG/L	99

(#) = qualifier out of range (m) = manual integration

2LCB
LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

2 2 0453

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

	CLIENT SAMPLE NO.	(NBZ) %REC #	(FBP) %REC #	(TPH) %REC #	(PHL) %REC #	(2FP) %REC #	(TBP) %REC #	OTHER #	TOT OUT
01	SBLK27	83	87	91	81	78	87		0
02	CS10	85	87	88	85	79	92		0
03	CS10A	90	91	96	90	84	95		0
04	CS15	86	89	92	87	79	92		0
05	CS15A	86	87	90	85	78	91		0
06	SLCS27	86	88	90	81	81	91		0
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

		QC LIMITS %REC
NBZ	= Nitrobenzene-d5	(40-112)
FBP	= 2-Fluorobiphenyl	(42-110)
TPH	= Terphenyl-d14	(24-140)
PHL	= Phenol-d5	(17-113)
2FP	= 2-Fluorophenol	(16-108)
TBP	= 2,4,6-Tribromophenol	(18-126)

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

3LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SLCS27

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: SLCS27 LCS Lot No.: SVCLP224

Lab File ID: 0308608.D Date Extracted:03/07/95

LCS Aliquot: 1000 (uL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Phenol	40	33	82	44-120
bis(2-Chloroethyl)ether	20	18	90	64-110
2-Chlorophenol	40	34	85	58-110
N-Nitroso-di-n-propylamine	20	16	80	34-102
Hexachloroethane	20	13	65	32- 77
Isophorone	20	16	80	49-110
1,2,4-Trichlorobenzene	20	15	75	44- 96
Naphthalene	20	17	85	56-160
4-Chloroaniline	40	15	38	35- 98
2,4,6-Trichlorophenol	40	36	90	65-110
2,4-Dinitrotoluene	20	17	85	61-140
Diethylphthalate	20	19	95	76-104
N-Nitrosodiphenylamine	20	9	45	35-120
Hexachlorobenzene	20	18	90	30- 95
Benzo(a)pyrene	20	17	85	55- 92

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 15 total.

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

SBLK27

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: SBLK27 Date Extracted: 03/07/95

Lab File ID: 0308603.D Date Analyzed: 03/08/95

Instrument ID: MSD6 Time Analyzed: 1137

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	CS10	950309801	0308604.D	03/08/95
02	CS10A	950309802	0308605.D	03/08/95
03	CS15	950309803	0308606.D	03/08/95
04	CS15A	950309804	0308607.D	03/08/95
05	SLCS27	SLCS27	0308608.D	03/08/95
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5LCB

LOW CONC. WATER SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91 2 2 0461

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab File ID: 03076DFT.D DFTPP Injection Date: 03/07/95

Instrument ID: MSD6 DFTPP Injection Time: 0807

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	57.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Area 69 relative abundance	70.1
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	25.0 - 75.0% of mass 198	54.2
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.5
365	Greater than 0.75% of mass 198	1.99
441	Present, but less than mass 443	8.5
442	40.0 - 110.0% of mass 198	54.9
443	15.0 - 24.0% of mass 442	10.9 (19.8)2

1-Value is % mass 69 2-Value is % mass 442

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD020	0307604.D	03/07/95	1207
02	SSTD005	SSTD005	0307605.D	03/07/95	1253
03	SSTD010	SSTD010	0307606.D	03/07/95	1340
04	SSTD050	SSTD050	0307607.D	03/07/95	1426
05	SSTD080	SSTD080	0307608.D	03/07/95	1513
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5LCB

LOW CONC. WATER SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91 2 2 0462

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab File ID: 03086DFT.D DFTPP Injection Date: 03/08/95

Instrument ID: MSD6 DFTPP Injection Time: 0931

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	55.2
68	Less than 2.0% of mass 69	0.6 (0.8)1
69	Area 69 relative abundance	70.0
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	25.0 - 75.0% of mass 198	53.4
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	18.8
365	Greater than 0.75% of mass 198	2.15
441	Present, but less than mass 443	9.7
442	40.0 - 110.0% of mass 198	62.5
443	15.0 - 24.0% of mass 442	12.0 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	SSTD020	0308602.D	03/08/95	1033
02	SBLK27	SBLK27	0308603.D	03/08/95	1137
03	CS10	950309801	0308604.D	03/08/95	1223
04	CS10A	950309802	0308605.D	03/08/95	1312
05	CS15	950309803	0308606.D	03/08/95	1404
06	CS15A	950309804	0308607.D	03/08/95	1450
07	SLCS27	SLCS27	0308608.D	03/08/95	1537
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8LCB

LOW CONC. WATER SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

2 2 0463

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab File ID (Standard): 0308602.D Date Analyzed: 03/08/95

Instrument ID: MSD6 Time Analyzed: 1033

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	706691	9.52	3218612	12.43	1872802	16.63
	UPPER LIMIT	1413382	9.85	6437224	12.76	3745604	16.96
	LOWER LIMIT	353346	9.19	1609306	12.10	936401	16.30
	CLIENT SAMPLE No.						
01	SBLK27	680745	9.52	3072042	12.42	1812120	16.63
02	CS10	664887	9.53	3009245	12.43	1671647	16.62
03	CS10A	663272	9.53	3058662	12.43	1698935	16.63
04	CS15	658469	9.53	3054995	12.43	1725735	16.64
05	CS15A	668719	9.54	3060095	12.43	1712374	16.63
06	SLCS27	615266	9.54	2761453	12.44	1601508	16.63
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag internal standard area and RT values with an asterisk.
* Values outside of QC limits.

8LCC

LOW CONC. WATER SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91 2 2 0464

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab File ID (Standard): 0308602.D Date Analyzed: 03/08/95

Instrument ID: MSD6 Time Analyzed: 1033

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	2702837	20.15	2442439	26.53	2785544	29.78
	UPPER LIMIT	5405674	20.48	4884878	26.86	5571088	30.11
	LOWER LIMIT	1351418	19.82	1221220	26.20	1392772	29.45
	CLIENT SAMPLE NO.						
01	SBLK27	2672235	20.14	2671721	26.53	3022078	29.78
02	CS10	2380223	20.14	2375919	26.53	2615321	29.78
03	CS10A	2414104	20.14	2334958	26.54	2535117	29.79
04	CS15	2426196	20.15	2361588	26.54	2587253	29.79
05	CS15A	2444148	20.15	2385329	26.54	2589333	29.79
06	SLCS27	2327918	20.15	2393731	26.53	2637523	29.79
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

Column used to flag internal standard area and RT values with an asterisk.
* Values outside of QC limits.

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS10

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309801 Date Received: 03/04/95

Lab File ID: 0308604.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS10

1 Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309801 Date Received: 03/04/95

Lab File ID: 0308604.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

1LCF 2 2 0467

CLIENT SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CS10

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309801 Date Received: 03/04/95

Lab File ID: 0308604.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.	Unknown	18.060	3	J
2.	Unknown	19.180	3	J
3.	Unknown	20.450	2	J
4.	Unknown Alkane	23.820	12	J
5.	Unknown Alkane	24.690	38	J
6.	Unknown Alkane	25.540	68	J
7.	Unknown Alkane	26.330	81	J
8.	Unknown Alkane	26.790	3	J
9.	Unknown Alkane	27.100	76	J
10.	Unknown Alkane	27.540	3	J
11.	Unknown Alkane	27.830	58	J
12.	Unknown Alkane	28.250	3	J
13.	Unknown Alkane	28.530	36	J
14.	Unknown Alkane	29.220	27	J
15.	Unknown Alkane	29.940	18	J
16.	Unknown Alkane	30.780	14	J
17.	Unknown Alkane	31.750	10	J
18.	Unknown Alkane	32.890	6	J
19.	Unknown Alkane	34.250	4	J
20.	Unknown Alkane	35.900	3	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : ~~CS10~~ CS10
Quant Time: Mar 8 13:03 1995
DM 3/08/95

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

2 2 0463

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Continuing Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.53	152	664887	40.00	0.01
17) Naphthalene-d8	12.43	136	3009245	40.00	0.00
31) Acenaphthene-d10	16.62	164	1671647	40.00	0.00
52) Phenanthrene-d10	20.14	188	2380223	40.00	-0.01
63) Chrysene-d12	26.53	240	2375919	40.00	0.00
71) Perylene-d12	29.78	264	2615321	40.00	0.00

System Monitoring Compounds					%Recovery
2) 2-Fluorophenol	7.02	112	806154	31.45	78.613%
3) Phenol-d5	9.06	99	1280292	34.00	85.012%
7) 2-Chlorophenol-d4	9.17	132	937003	33.05	82.626%
11) 1,2-Dichlorobenzene-d4	9.94	152	508784	35.17	87.913%
18) Nitrobenzene-d5	10.85	82	1106831	33.96	84.898%
35) 2-Fluorobiphenyl	15.06	172	1715413	34.83	87.077%
51) 2,4,6-Tribromophenol	18.57	330	815544	110.20	91.834%
65) Terphenyl-d14	24.06	244	1946648	35.35	88.385%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

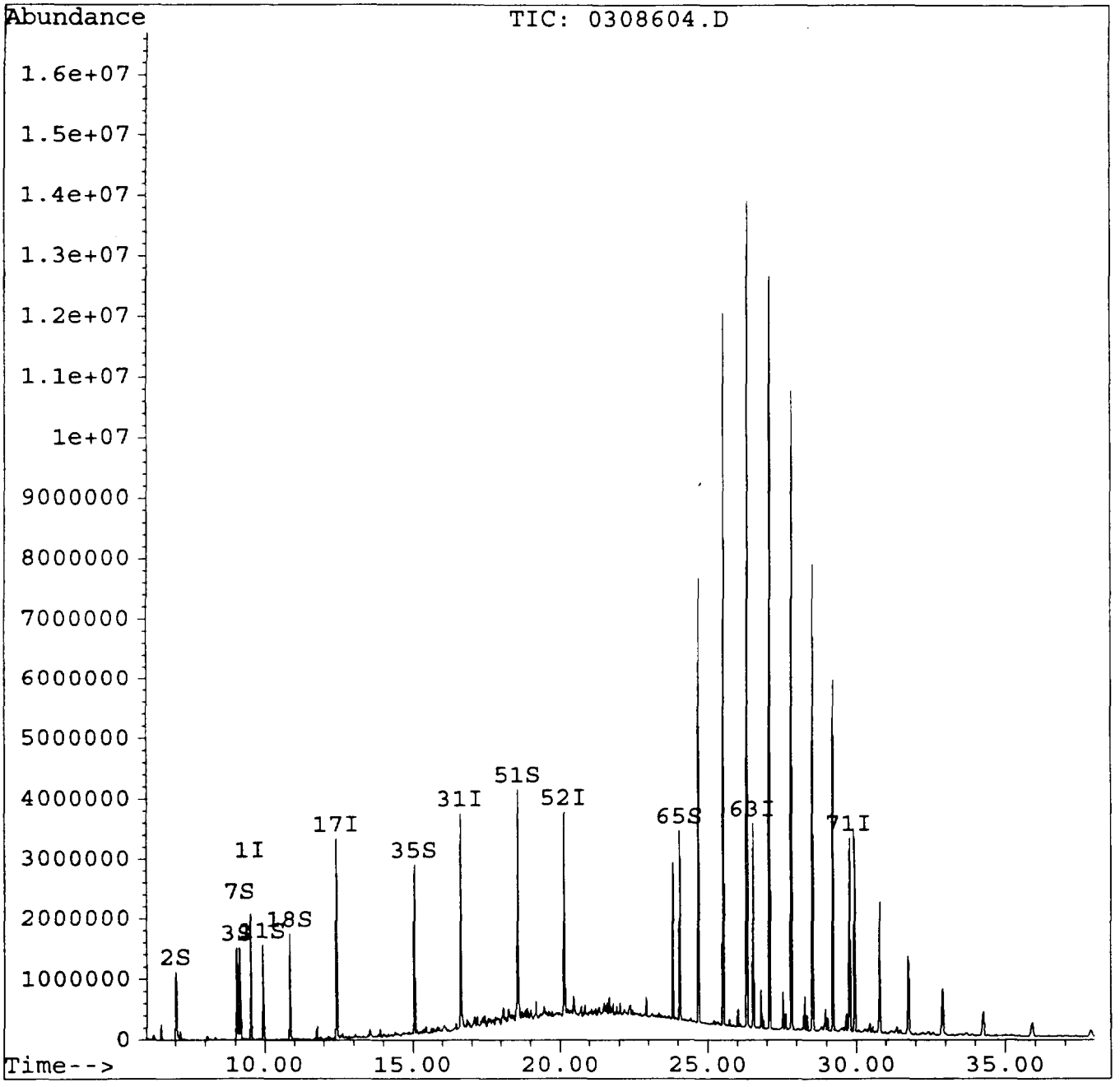
Quantitation Report

Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10
Quant Time: Mar 8 13:03 1995

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

2 2 0469

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Single Level Calibration



Library Search Compound Report

2 2 0470

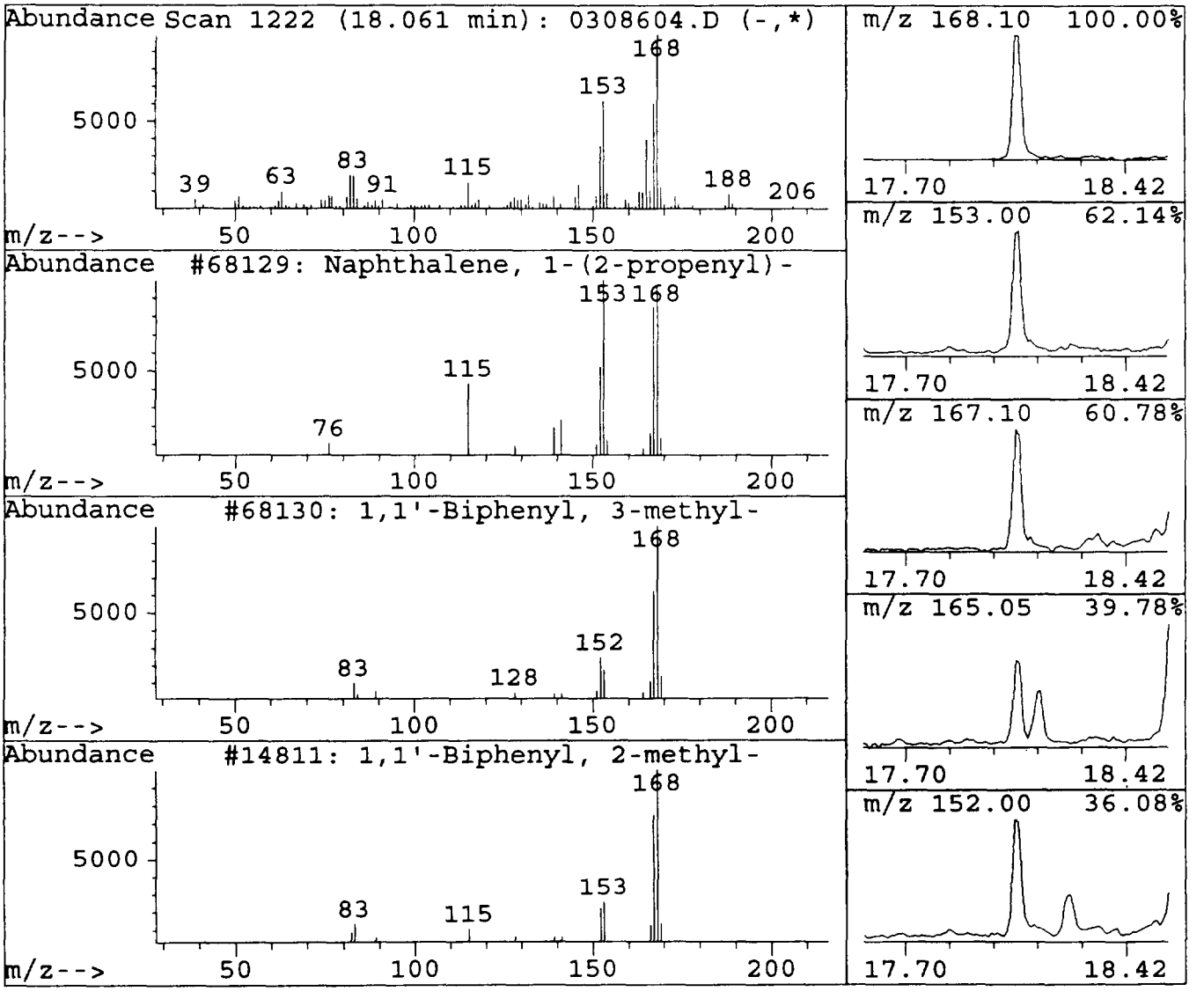
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title : CS10
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.06	5.67 3	1124295	Acenaphthene-d10	16.62

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1-(2-propenyl)-	68129	002489-86-3	81
2	1,1'-Biphenyl, 3-methyl-	68130	000643-93-6	64
3	1,1'-Biphenyl, 2-methyl-	14811	000643-58-3	58
4	Benzene, [1-(2,4-cyclopentadien-1-y	14809	002320-32-3	50
5	1,1'-Biphenyl, 4-methyl-	68135	000644-08-6	49



Library Search Compound Report

2 2 0471

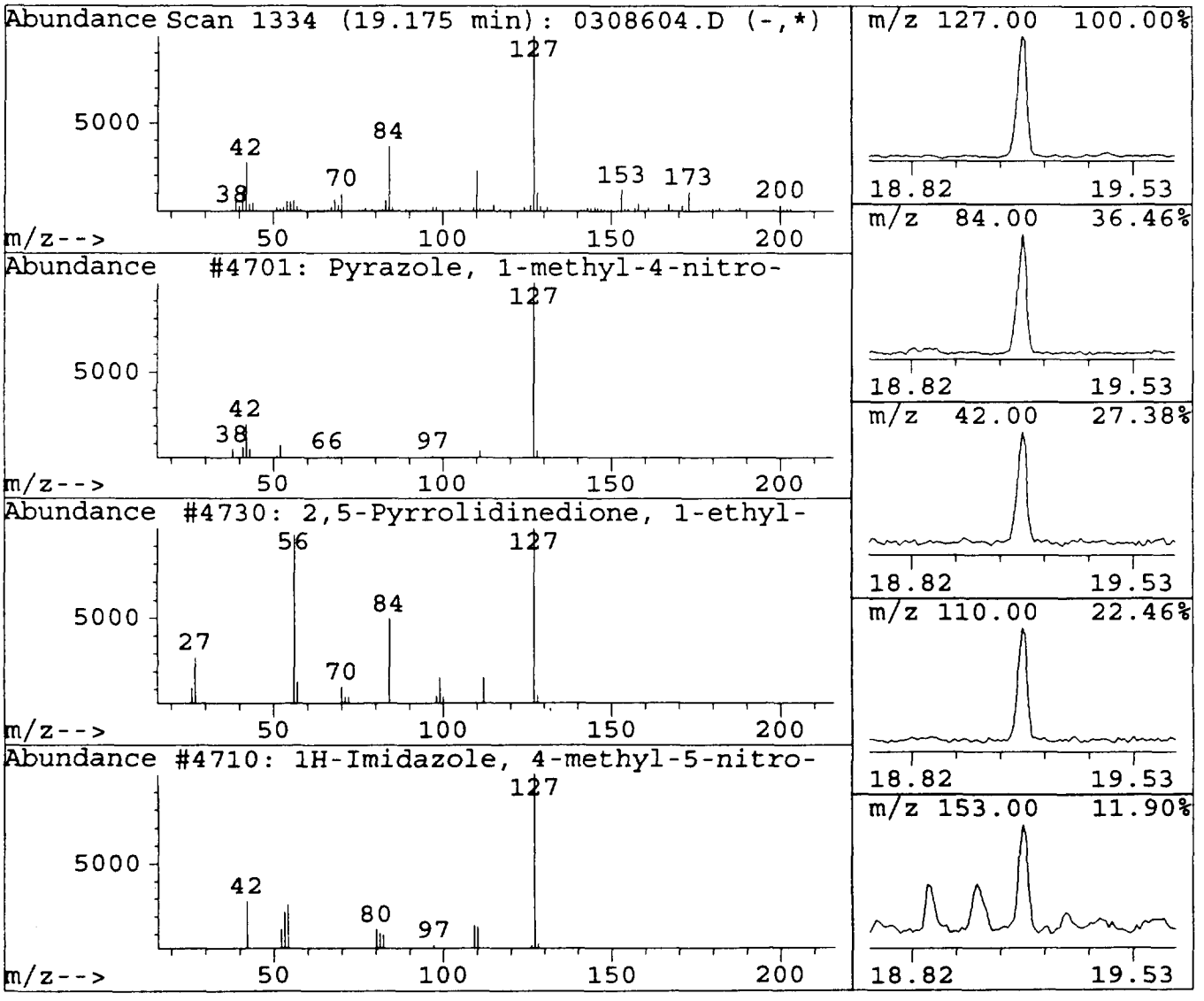
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title : '
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
19.18	5.33 3	1014401	Phenanthrene-d10	20.14

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrazole, 1-methyl-4-nitro-	4701	003994-50-1	47
2	2,5-Pyrrolidinedione, 1-ethyl-	4730	002314-78-5	47
3	1H-Imidazole, 4-methyl-5-nitro-	4710	014003-66-8	38
4	2,4-Imidazolidinedione, 1,5,5-trime	7822	006851-81-6	23
5	DL-Altritol, 1,6-dideoxy-3,4-di-C-m	34660	074841-66-0	17



Library Search Compound Report

2 2 0472

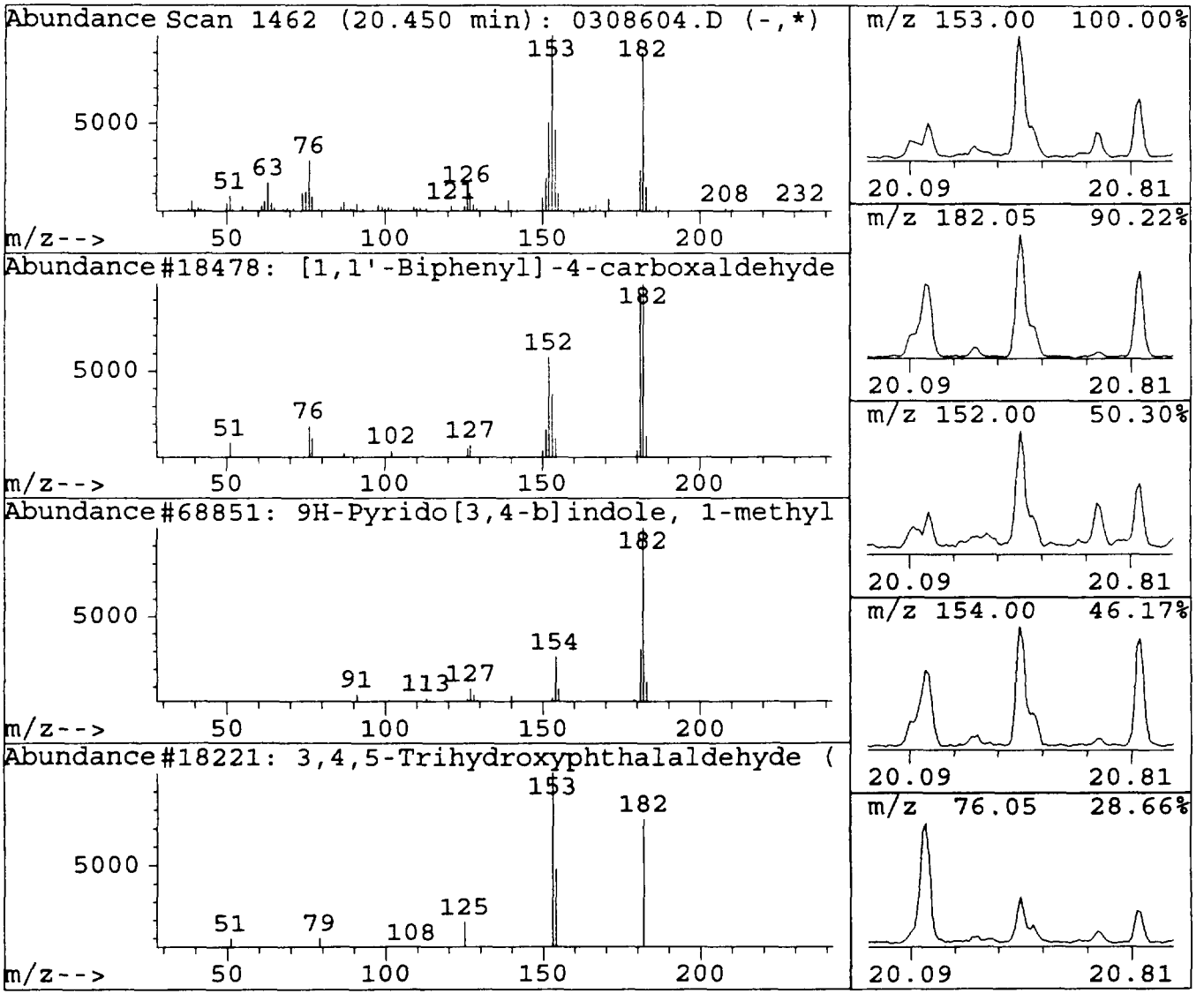
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
20.45	4.27 2	813341	Phenanthrene-d10	20.14

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	18478	003218-36-8	53
2	9H-Pyrido[3,4-b]indole, 1-methyl-	68851	000486-84-0	38
3	3,4,5-Trihydroxyphthalaldehyde (fom	18221	016790-41-3	38
4	2,5-Etheno[4.2.2]propella-3,7,9-tri	11093	088090-38-4	38
5	Dibenzofuran, 4-methyl-	18479	007320-53-8	27



Library Search Compound Report

2 2 0473

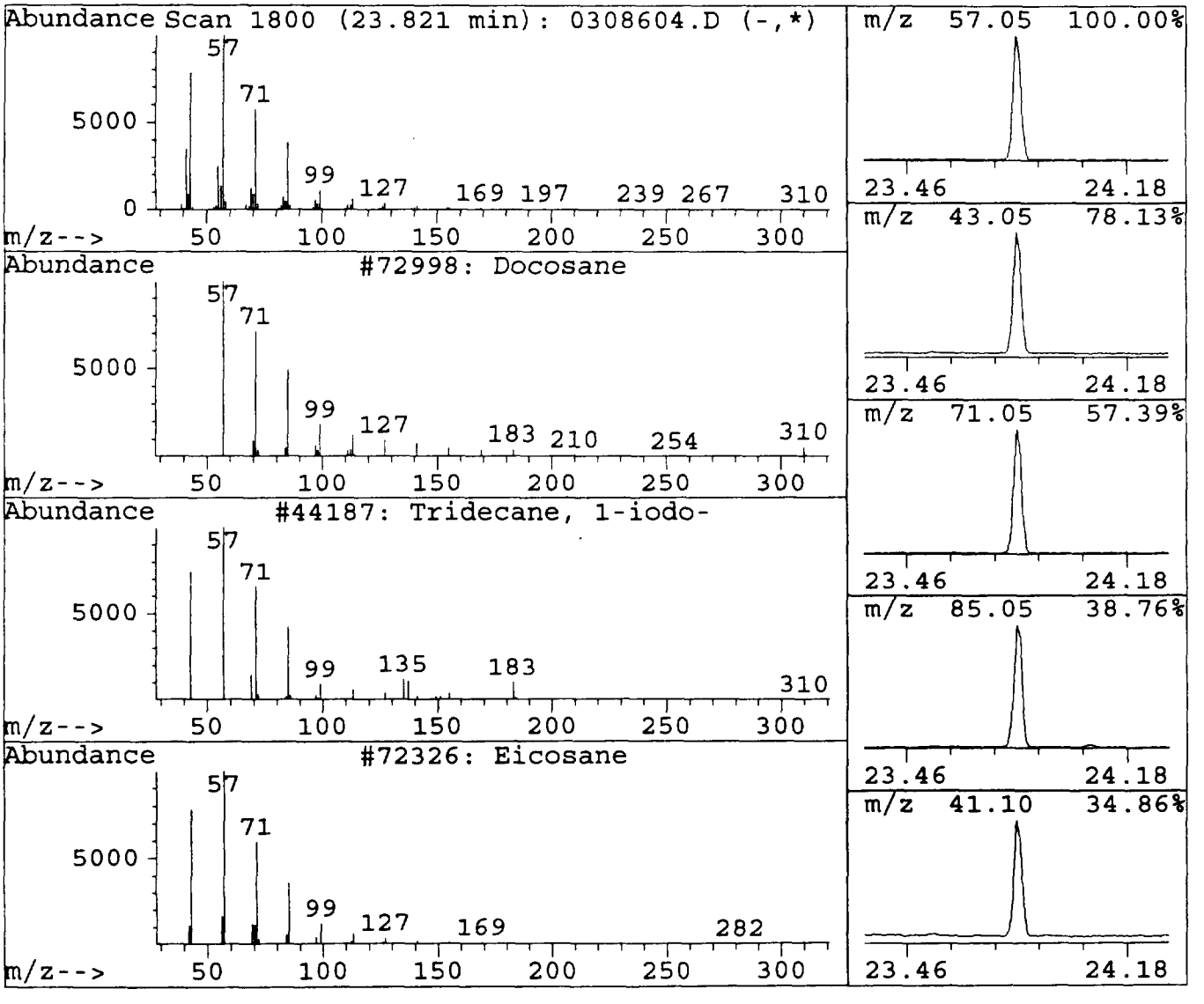
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc		Area	Relative to ISTD	R.T.
23.82	24.03	12	4717053	Chrysene-d12	26.53

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	72998	000629-97-0	97
2	Tridecane, 1-iodo-	44187	035599-77-0	93
3	Eicosane	72326	000112-95-8	91
4	Pentacosane	73718	000629-99-2	91
5	Heptacosane	74082	000593-49-7	91



Library Search Compound Report

2 2 0474

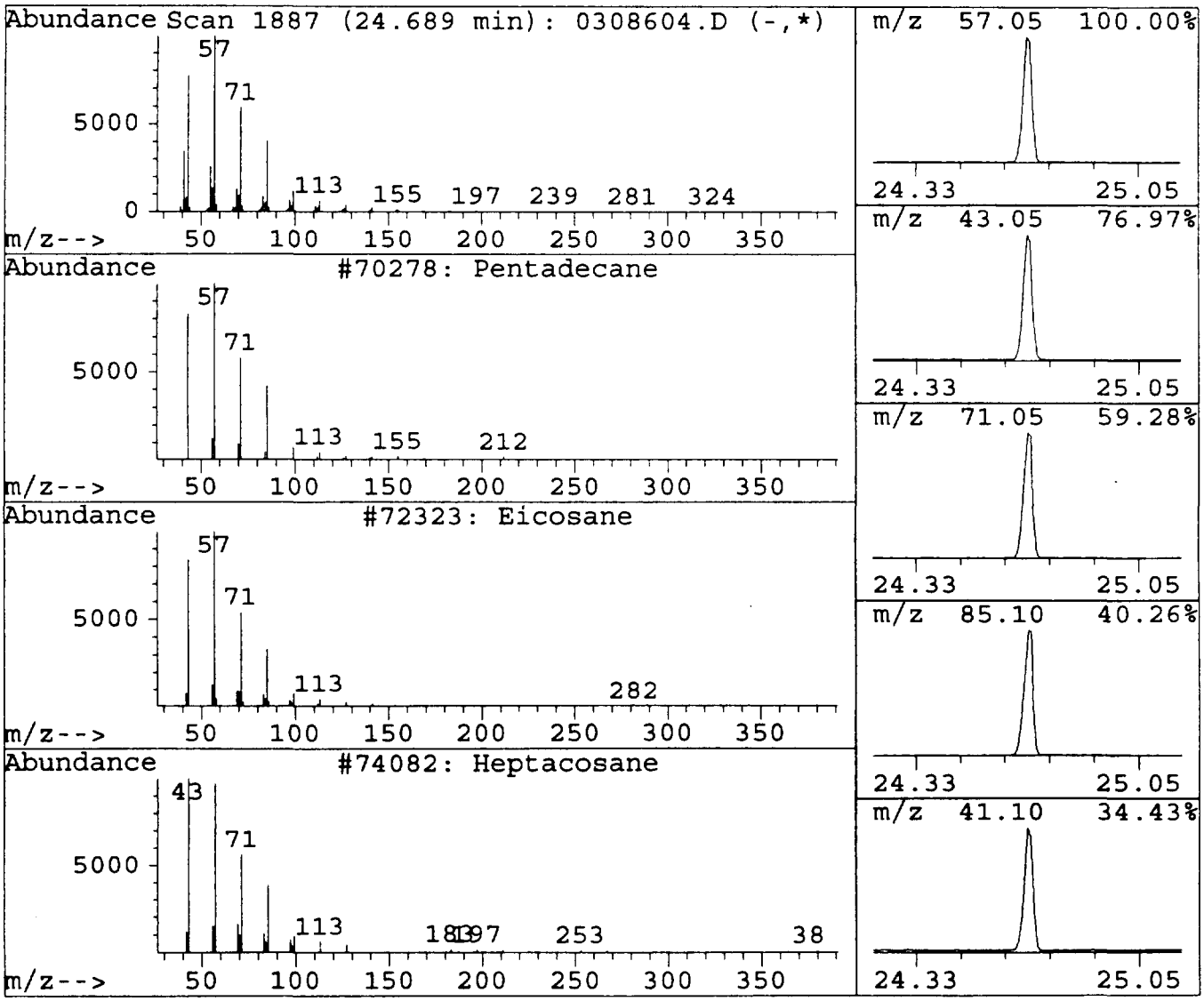
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
24.69	75.63	14843293	Chrysene-d12	26.53

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane	70278	000629-62-9	93
2	Eicosane	72323	000112-95-8	91
3	Heptacosane	74082	000593-49-7	91
4	Eicosane, 10-methyl-	42197	054833-23-7	91
5	10-Methylnonadecane	39858	000000-00-0	91



Library Search Compound Report

2 2 0475

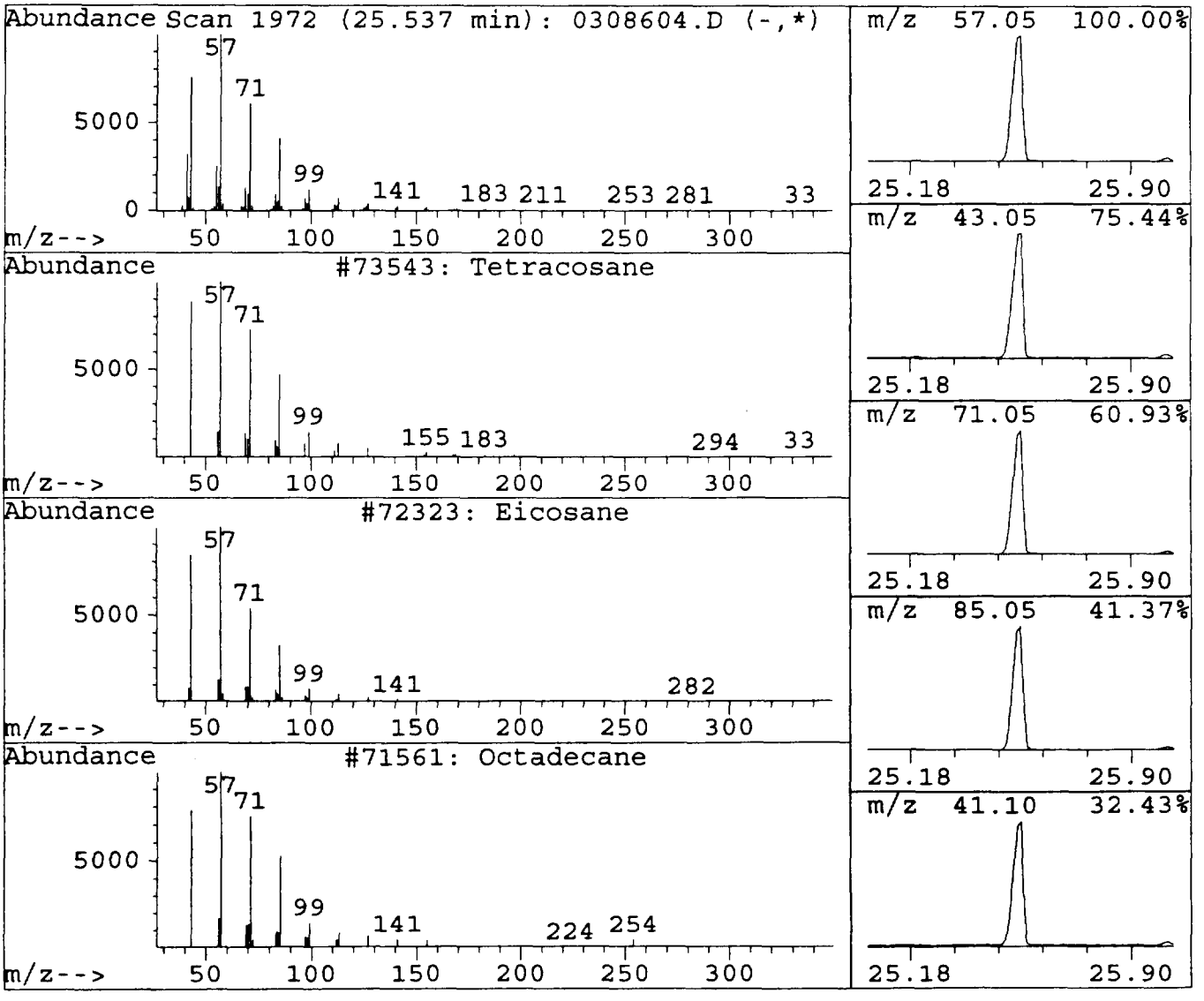
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
25.54	135.41 68	26576594	Chrysene-d12	26.53

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	73543	000646-31-1	96
2	Eicosane	72323	000112-95-8	91
3	Octadecane	71561	000593-45-3	91
4	Docosane	44318	000629-97-0	91
5	Nonadecane	71949	000629-92-5	91



Library Search Compound Report

2 2 0476

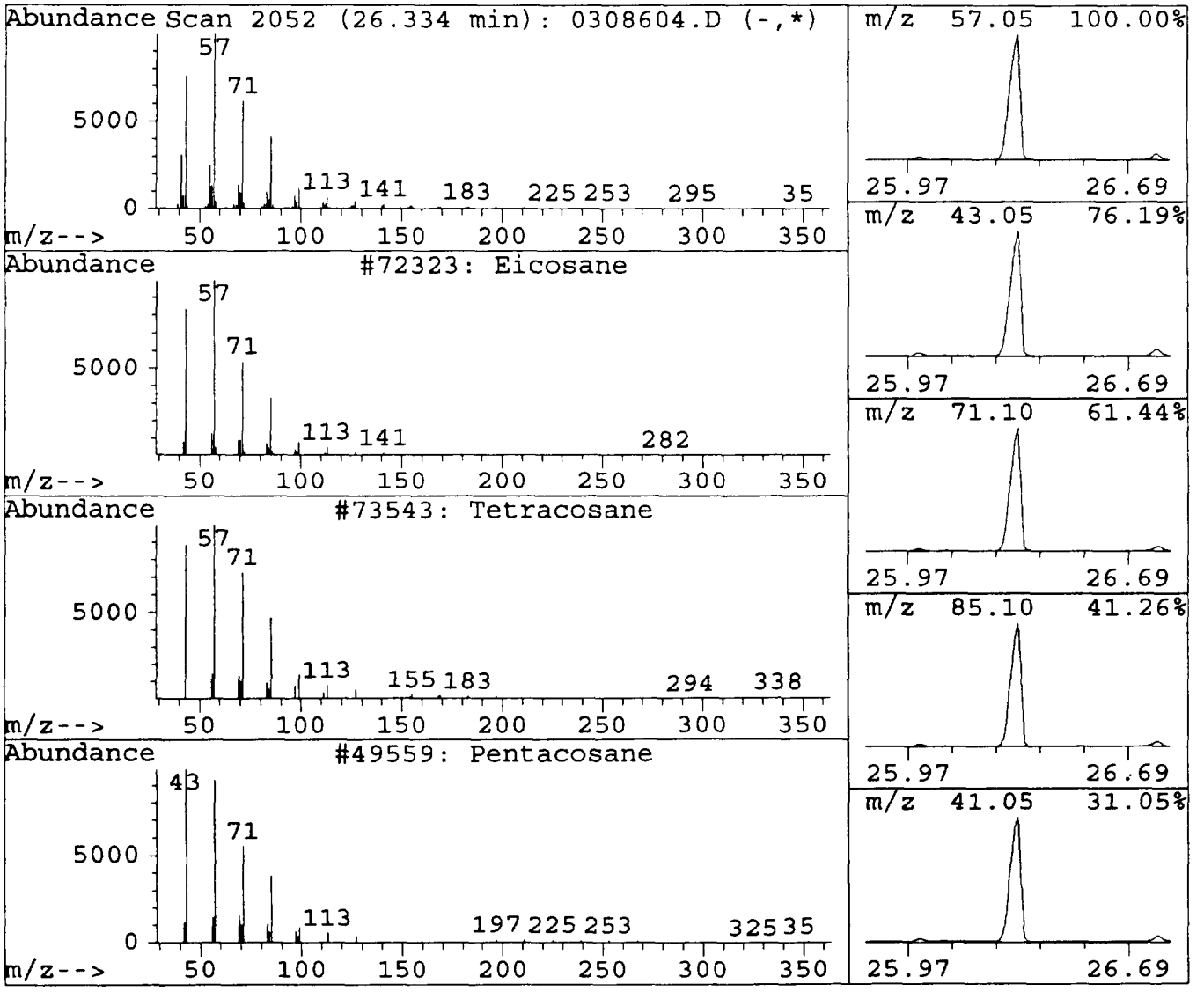
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
26.33	162.72 81	31936129	Chrysene-d12	26.53

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	72323	000112-95-8	91
2	Tetracosane	73543	000646-31-1	91
3	Pentacosane	49559	000629-99-2	91
4	Docosane	44318	000629-97-0	91
5	Heptacosane	52248	000593-49-7	90



Library Search Compound Report

2 2 0477

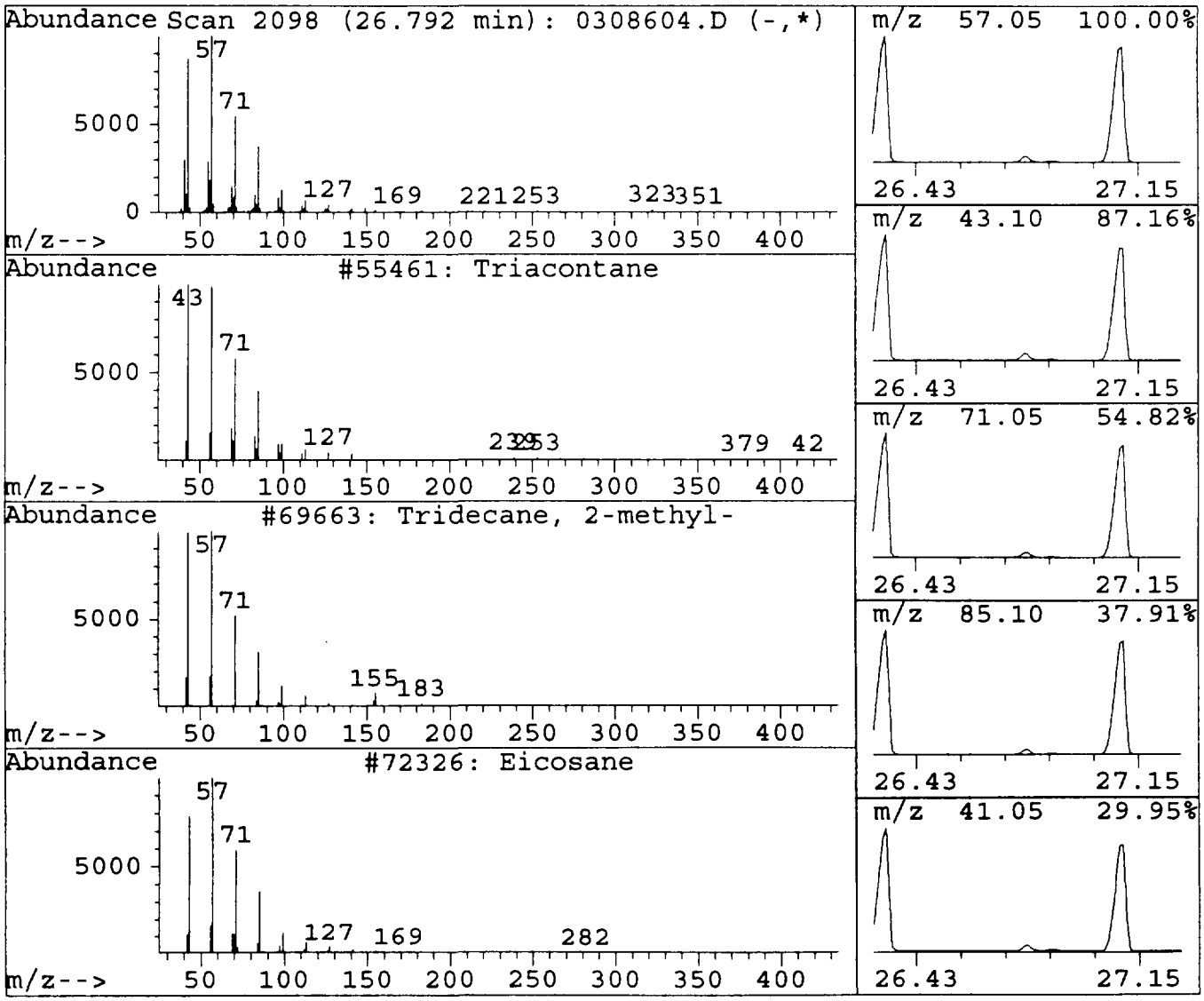
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
26.79	6.82 3	1335849	Chrysene-d12	26.53

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Triacontane	55461	000638-68-6	91
2	Tridecane, 2-methyl-	69663	001560-96-9	90
3	Eicosane	72326	000112-95-8	90
4	Heptadecane, 9-hexyl-	46162	055124-79-3	90
5	Docosane, 11-butyl-	73937	013475-76-8	90



2 020

Library Search Compound Report

2 2 0473

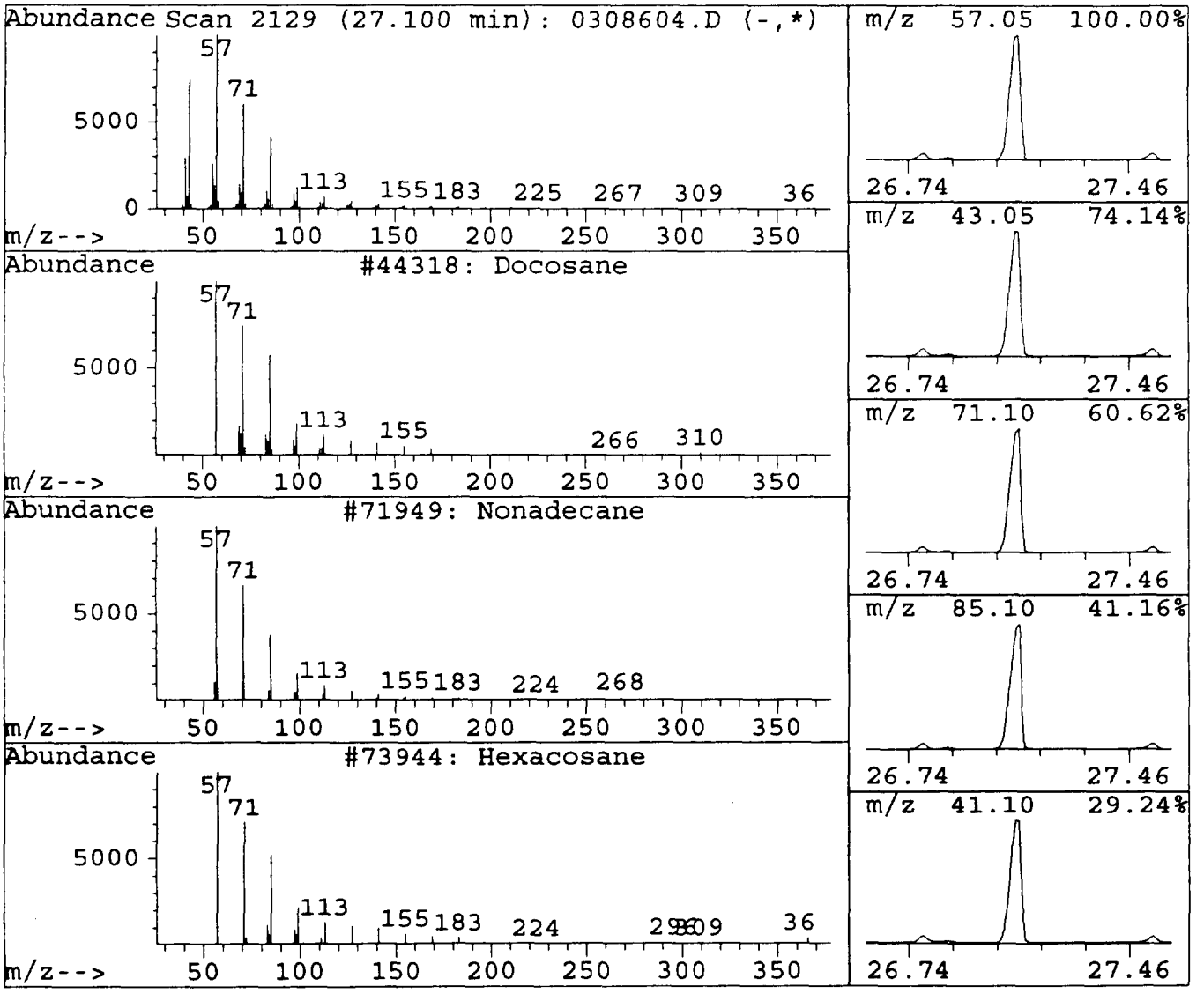
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
27.10	152.46 76	29924086	Chrysene-d12	26.53

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	44318	000629-97-0	97
2	Nonadecane	71949	000629-92-5	97
3	Hexacosane	73944	000630-01-3	95
4	Eicosane	72323	000112-95-8	91
5	Tetracosane	73543	000646-31-1	91



Library Search Compound Report

2 2 0479

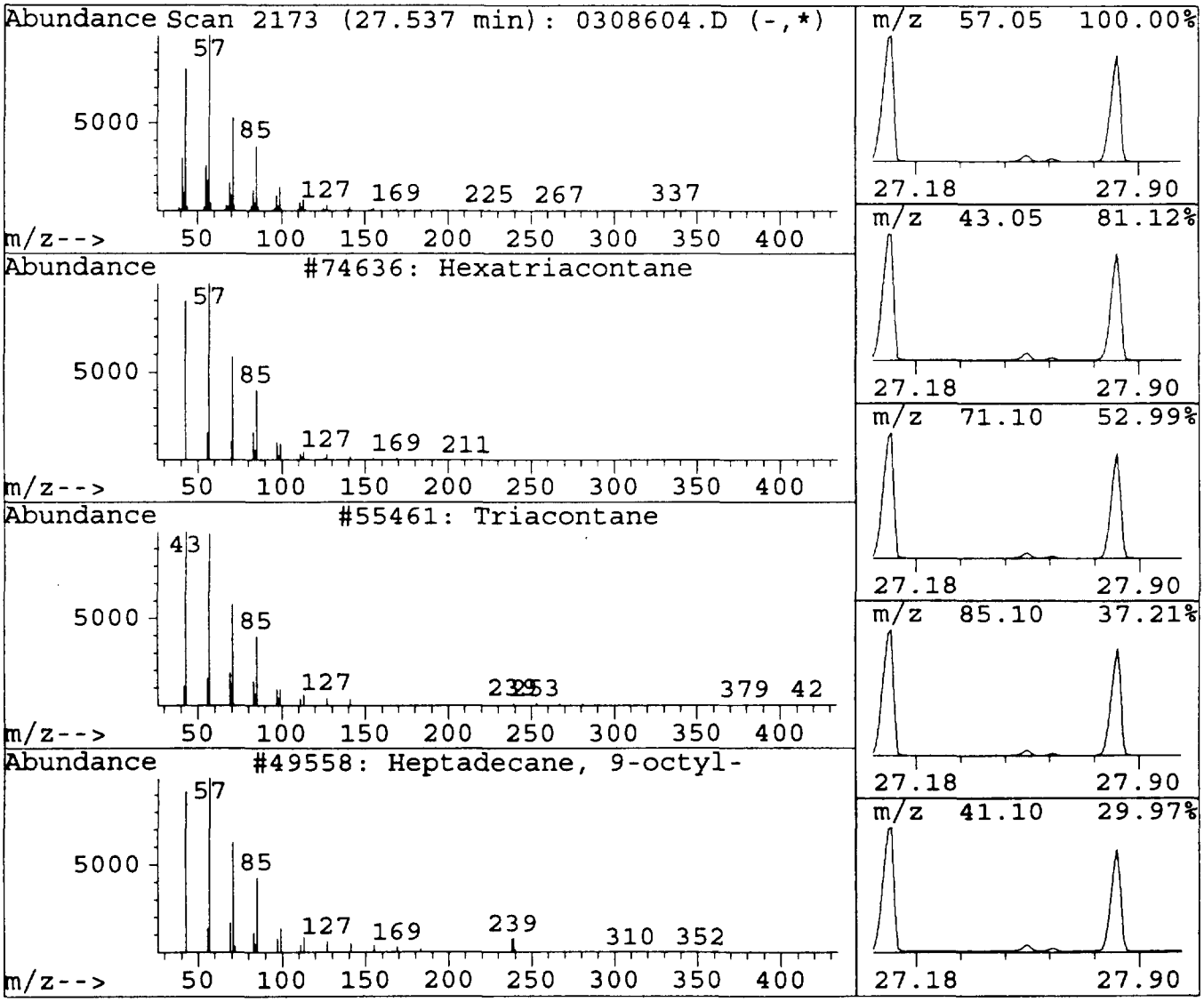
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
27.54	6.19 3	1214030	Chrysene-d12	26.53

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexatriacontane	74636	000630-06-8	91
2	Triacontane	55461	000638-68-6	91
3	Heptadecane, 9-octyl-	49558	007225-64-1	91
4	Tridecane, 2-methyl-	69663	001560-96-9	90
5	Docosane	44318	000629-97-0	90



Library Search Compound Report

2 2 0400

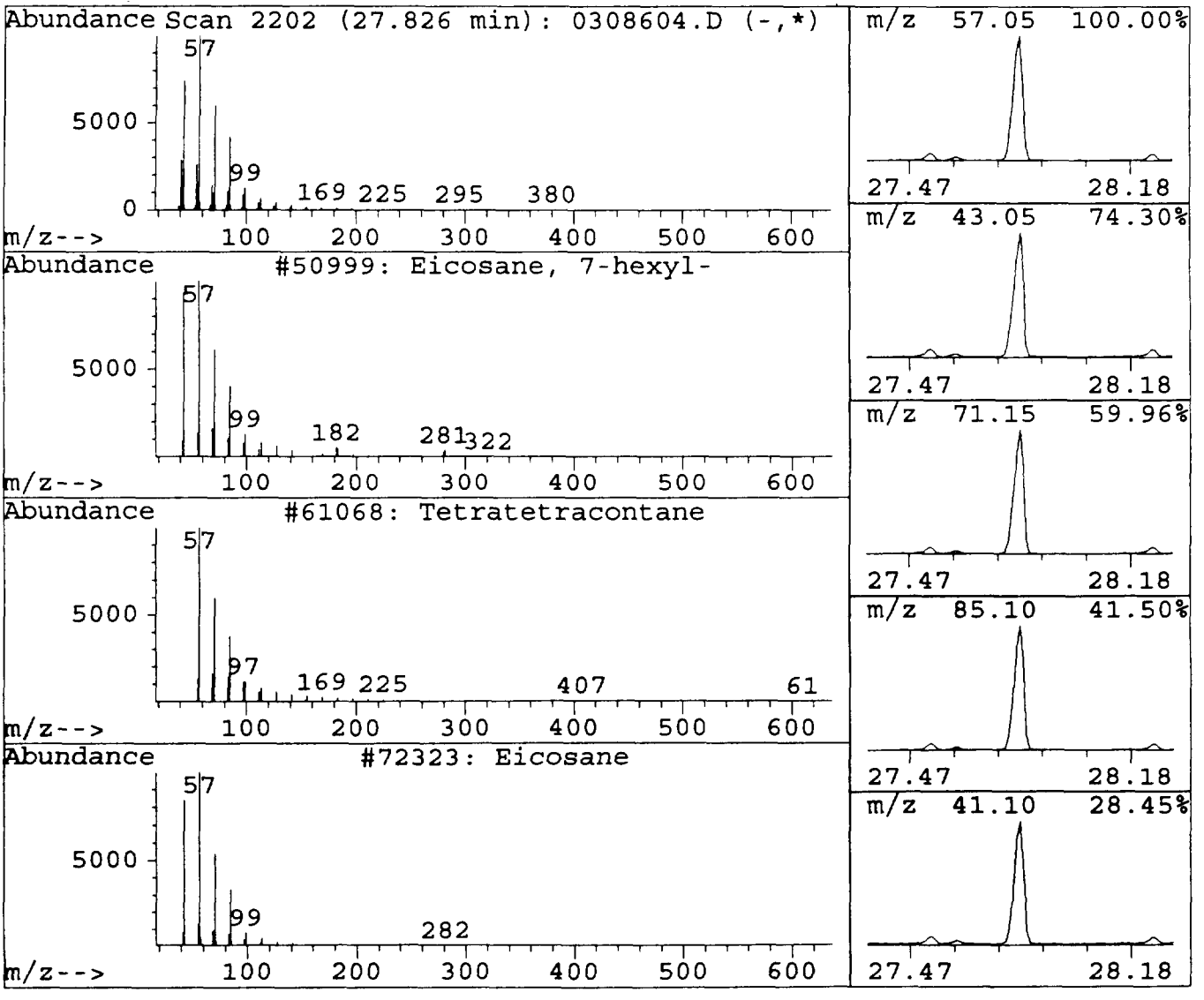
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc		Area	Relative to ISTD	R.T.
27.83	115.78	58	22723572	Chrysene-d12	26.53

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 7-hexyl-	50999	055333-99-8	91
2	Tetratetracontane	61068	007098-22-8	91
3	Eicosane	72323	000112-95-8	91
4	Hexatriacontane	59136	000630-06-8	91
5	Docosane	44318	000629-97-0	91



Library Search Compound Report

2 2 0431

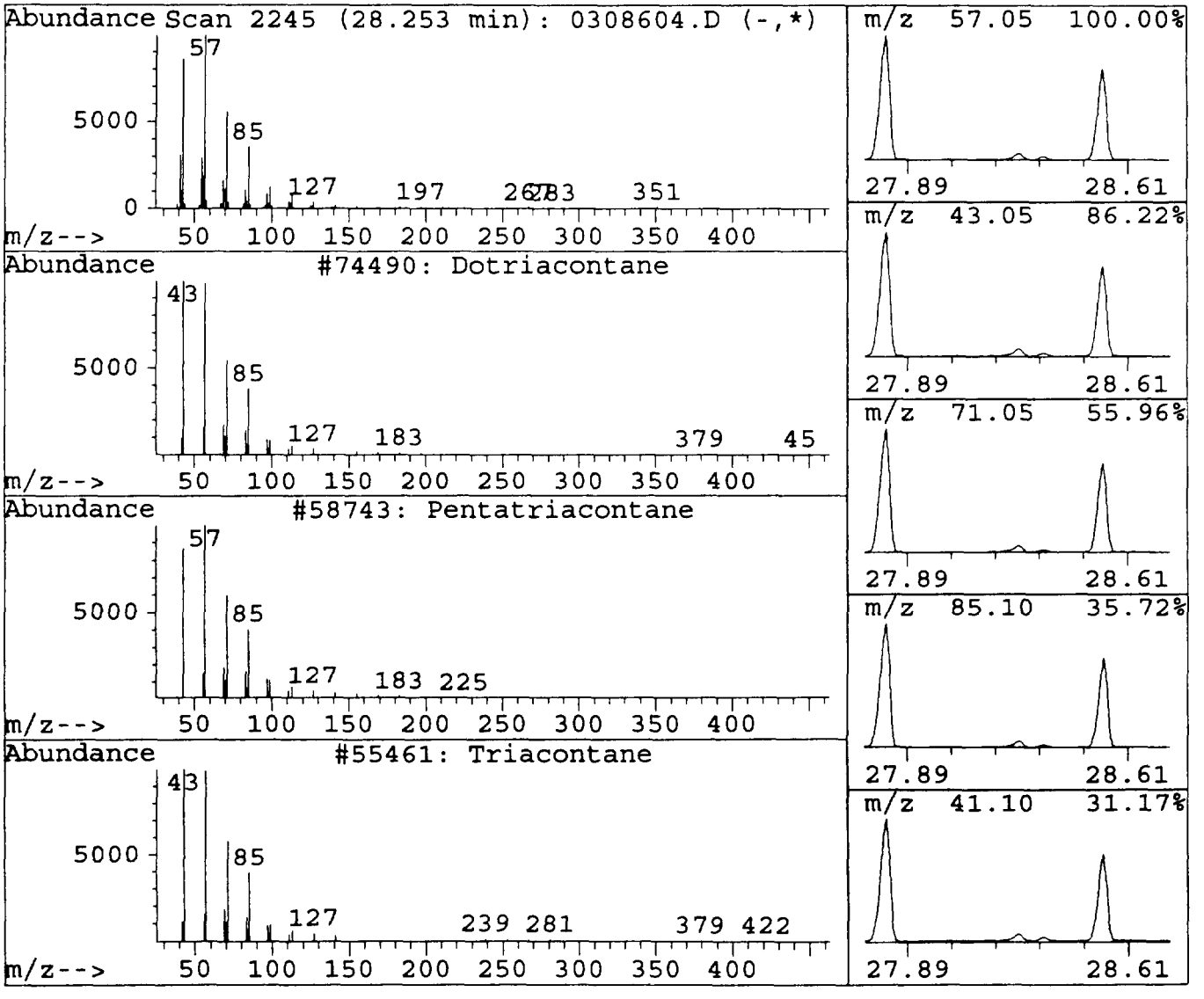
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
28.25	5.87 3	1242588	Perylene-d12	29.78

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dotriacontane	74490	000544-85-4	91
2	Pentatriacontane	58743	000630-07-9	91
3	Triacontane	55461	000638-68-6	91
4	Hexatriacontane	74636	000630-06-8	91
5	Tetratetracontane	61068	007098-22-8	91



Library Search Compound Report

2 2 0482

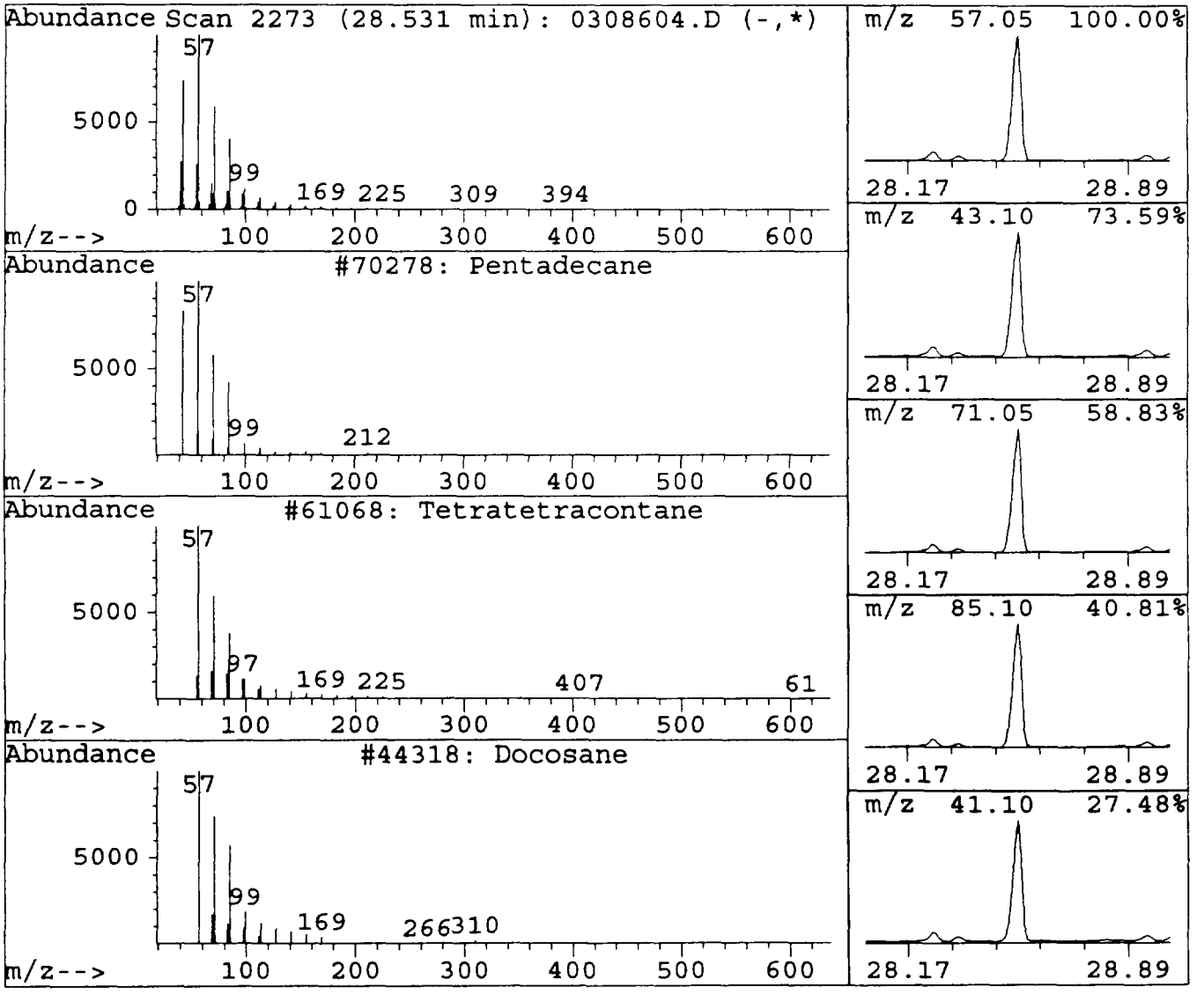
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
28.53	73.06 36	15472113	Perylene-d12	29.78

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane	70278	000629-62-9	93
2	Tetratetracontane	61068	007098-22-8	91
3	Docosane	44318	000629-97-0	91
4	Eicosane	72323	000112-95-8	90
5	Tetracosane	73543	000646-31-1	90



Library Search Compound Report

2 2 0483

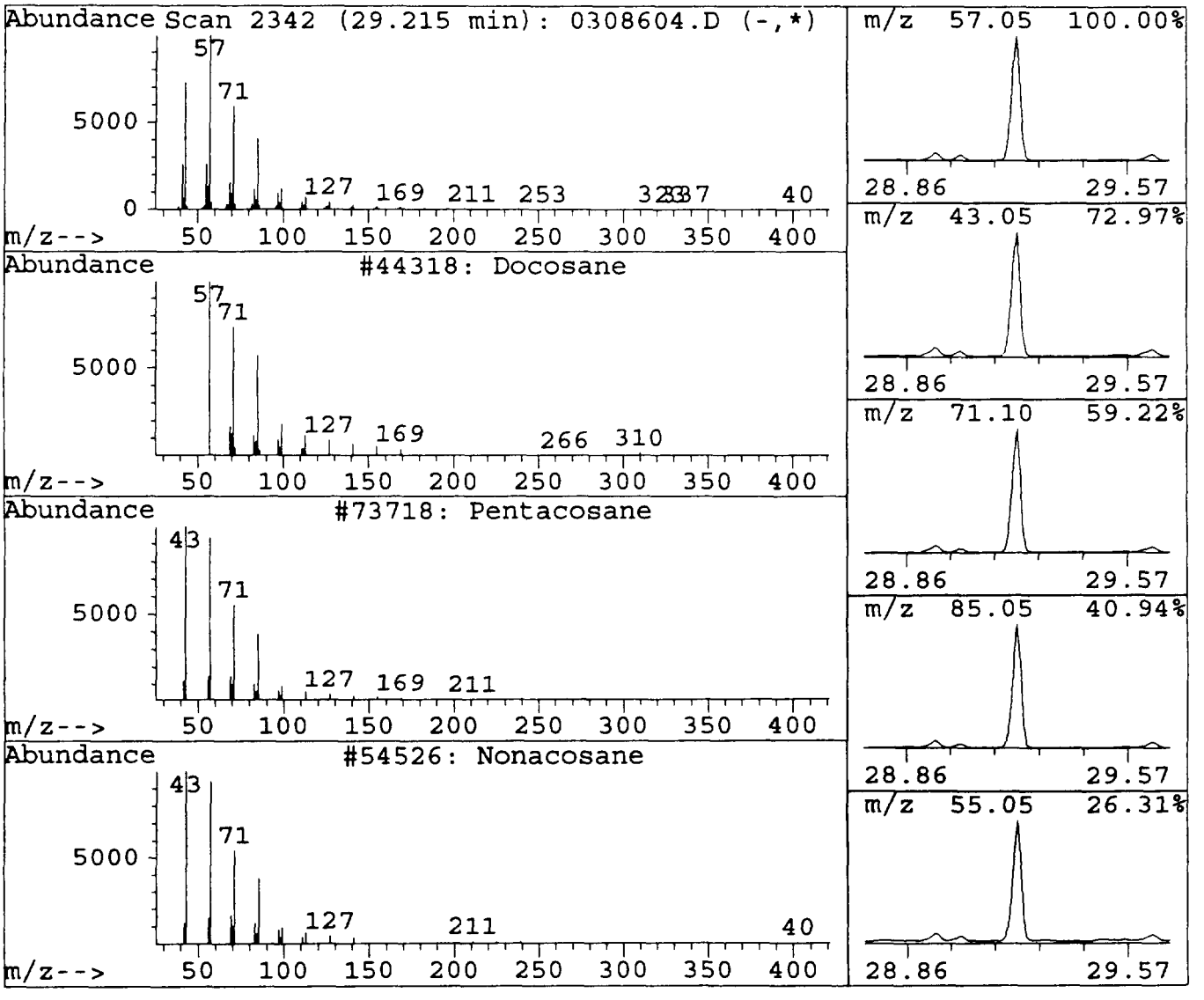
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
29.22	53.23 27	11272907	Perylene-d12	29.78

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	44318	000629-97-0	91
2	Pentacosane	73718	000629-99-2	91
3	Nonacosane	54526	000630-03-5	91
4	Tetracosane	73543	000646-31-1	90
5	Hexatriacontane	59136	000630-06-8	90



Library Search Compound Report

2 2 0484

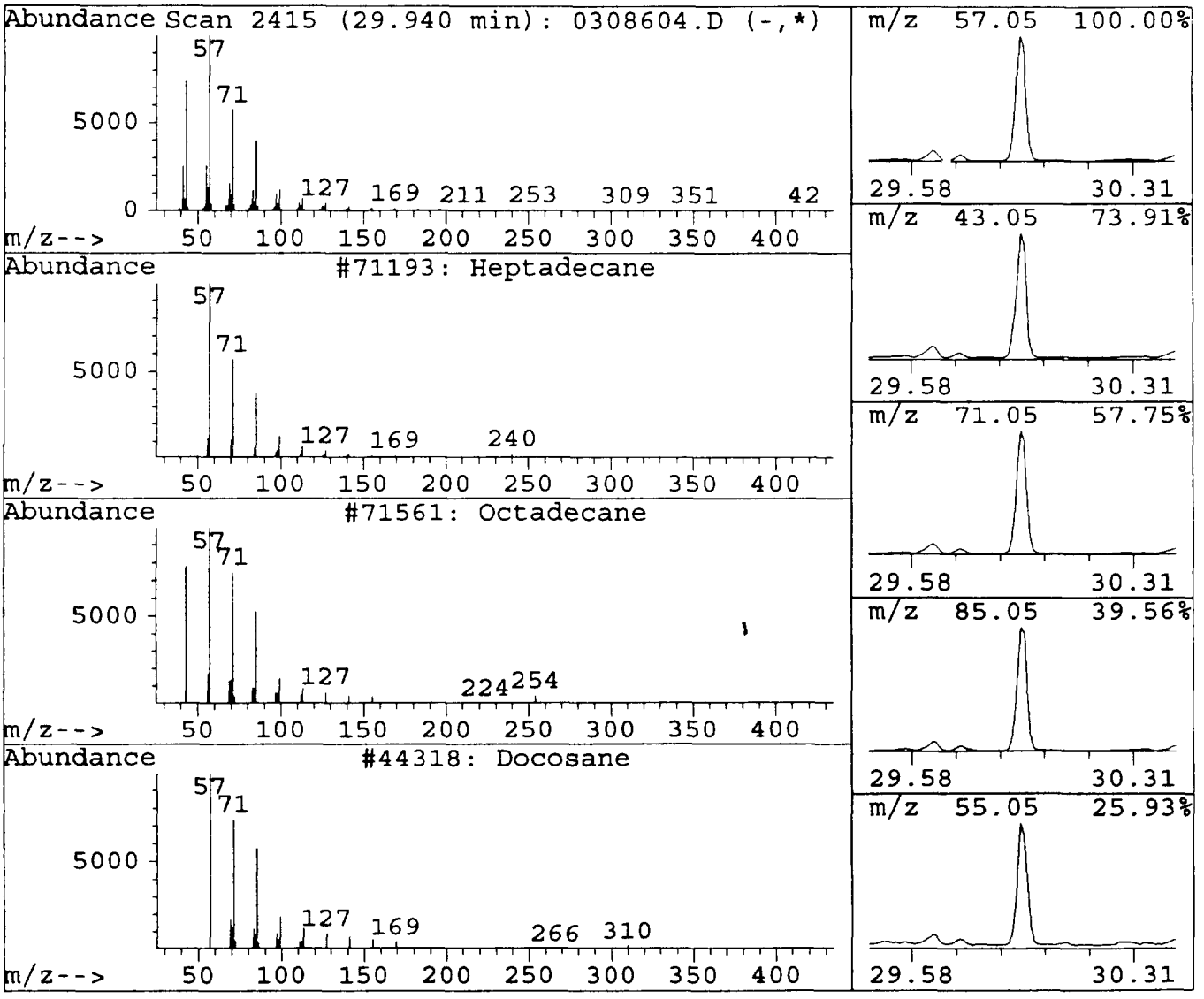
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc		Area	Relative to ISTD	R.T.
29.94	35.93	18	7610049	Perylene-d12	29.78

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane	71193	000629-78-7	95
2	Octadecane	71561	000593-45-3	91
3	Docosane	44318	000629-97-0	91
4	Tetratriacontane	58265	014167-59-0	90
5	Heptacosane	74082	000593-49-7	90



Library Search Compound Report

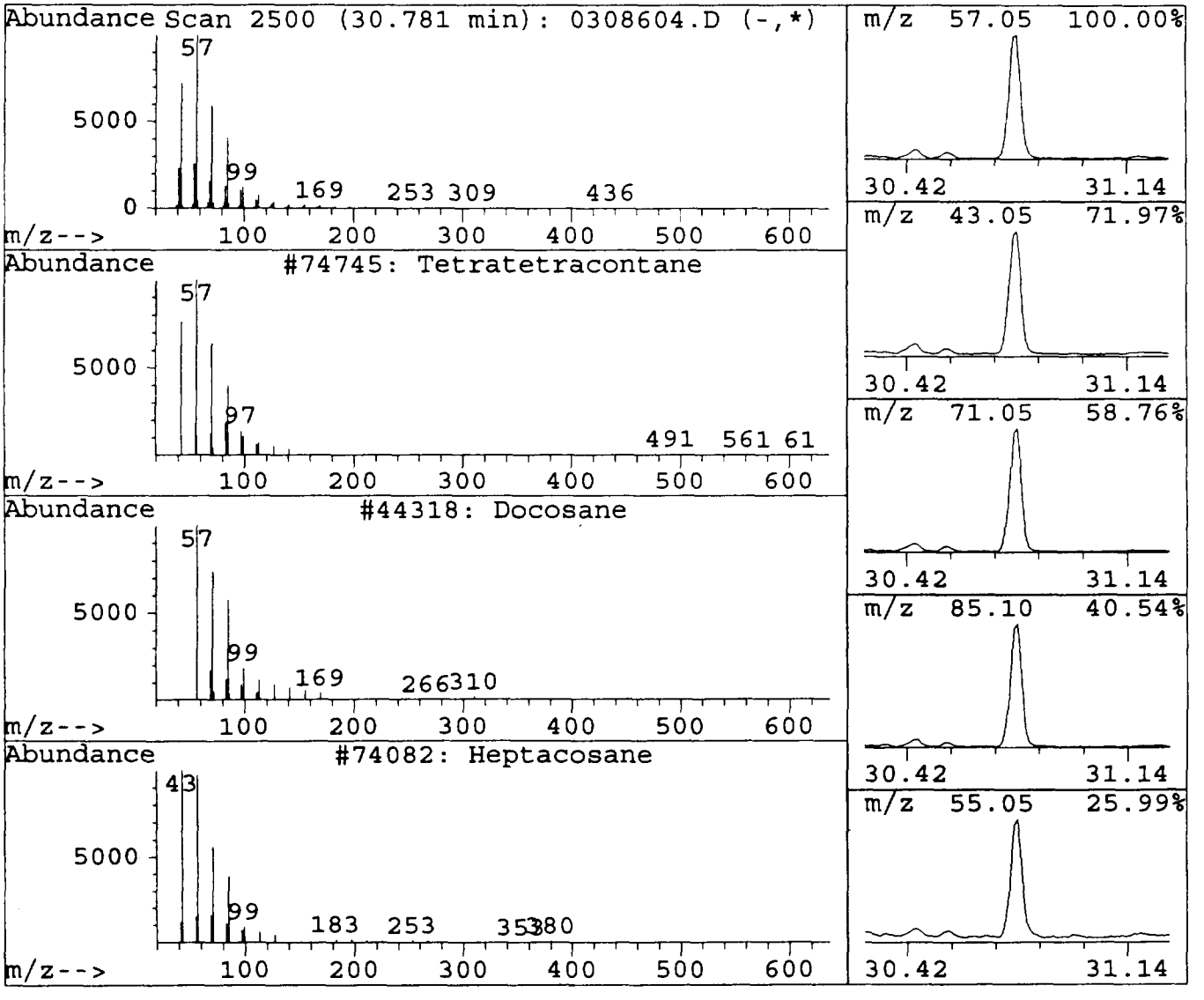
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
30.78	27.80 14	5886750	Perylene-d12	29.78

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetratetracontane	74745	007098-22-8	91
2	Docosane	44318	000629-97-0	91
3	Heptacosane	74082	000593-49-7	90
4	Pentacosane	49559	000629-99-2	90
5	Nonadecane	71949	000629-92-5	87



Library Search Compound Report

2 2 0426

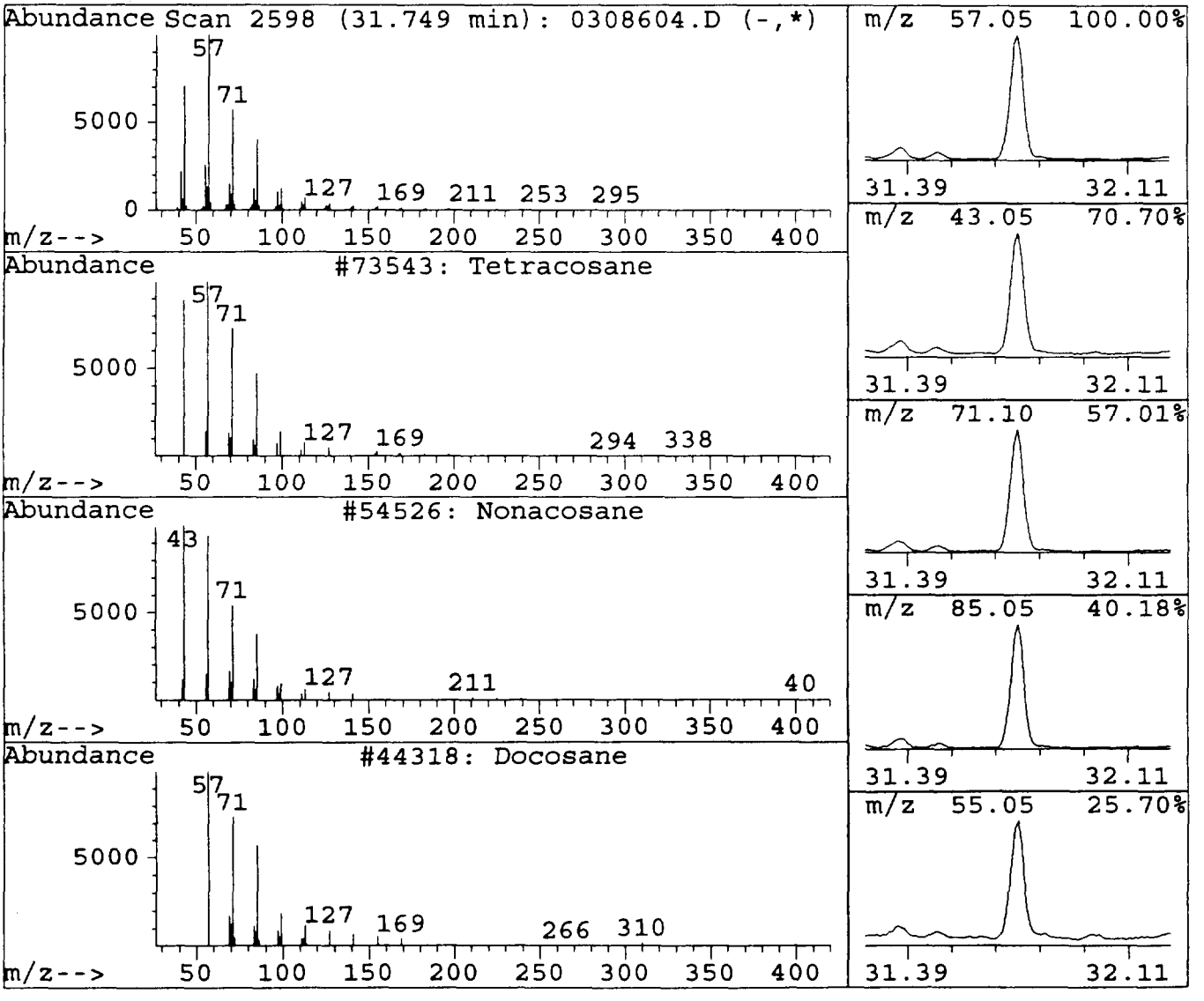
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
31.75	19.16 10	4057098	Perylene-d12	29.78

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	73543	000646-31-1	91
2	Nonacosane	54526	000630-03-5	90
3	Docosane	44318	000629-97-0	90
4	Pentatriacontane	58743	000630-07-9	90
5	Tetratriacontane	58265	014167-59-0	90



Library Search Compound Report

2 2 0407

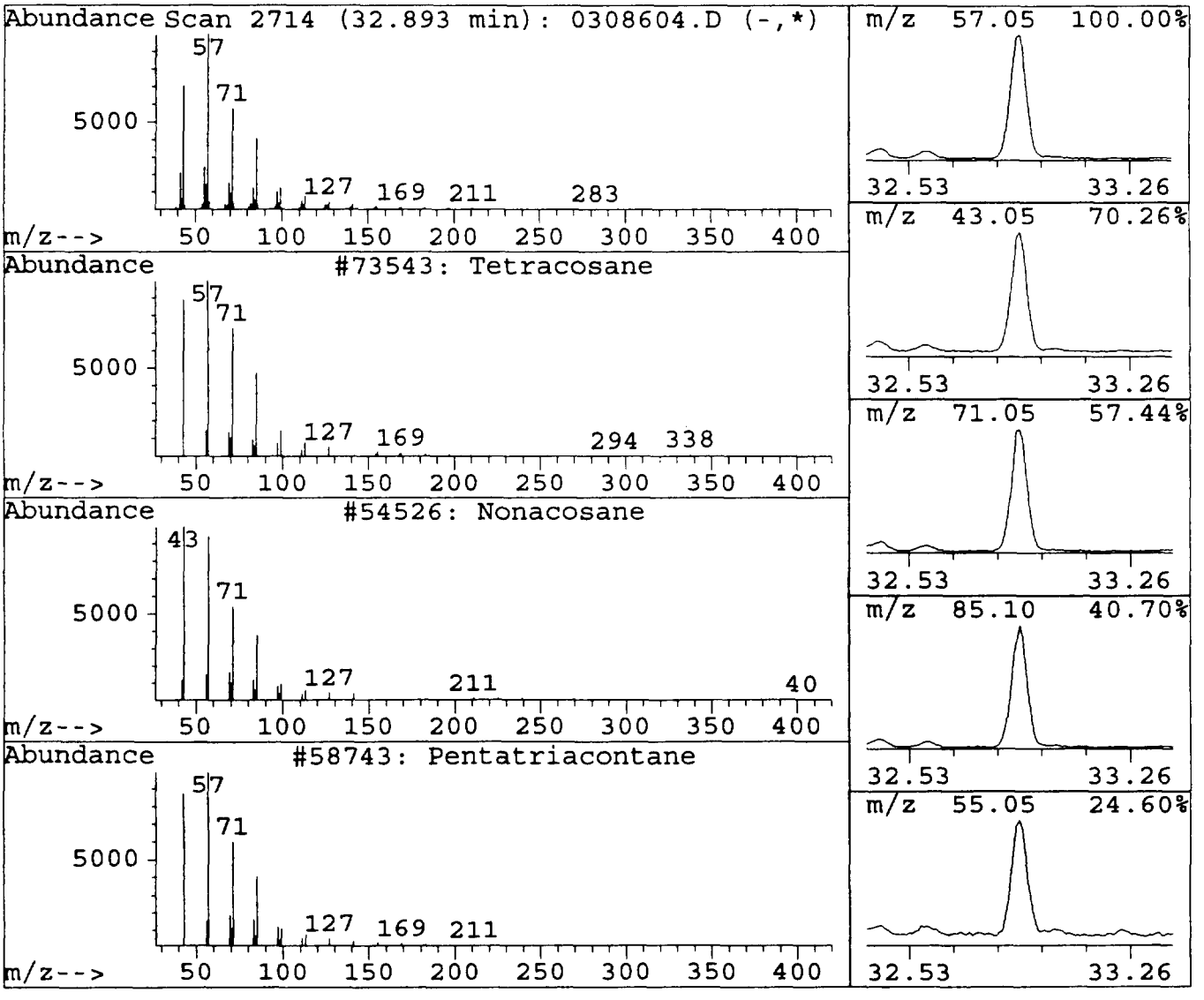
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
32.89	13.16 6	2786011	Perylene-d12	29.78

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	73543	000646-31-1	91
2	Nonacosane	54526	000630-03-5	91
3	Pentatriacontane	58743	000630-07-9	91
4	Eicosane	72326	000112-95-8	90
5	Heneicosane	42201	000629-94-7	90



Library Search Compound Report

2 2 0483

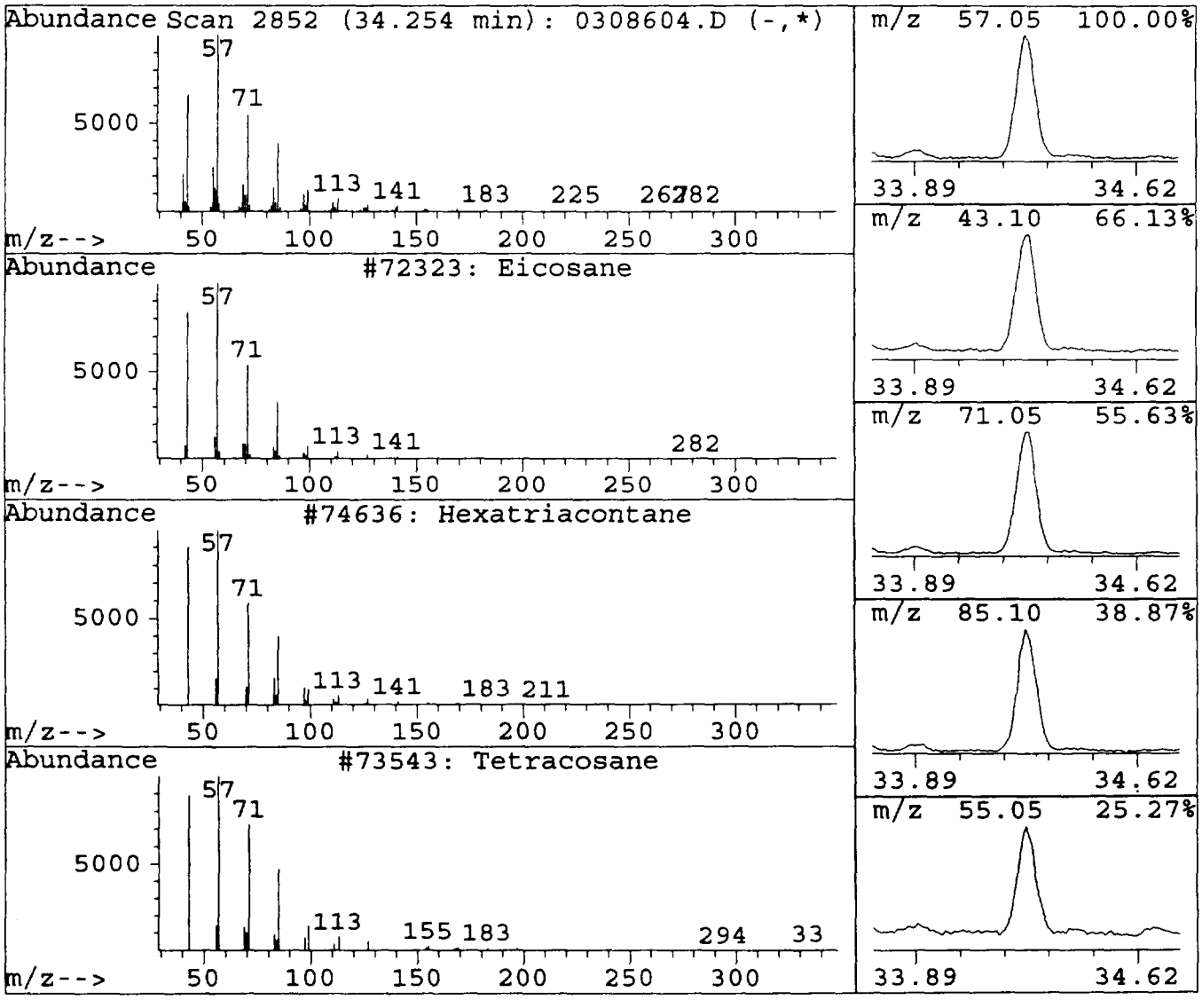
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
34.25	8.40 4	1779048	Perylene-d12	29.78

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	72323	000112-95-8	96
2	Hexatriacontane	74636	000630-06-8	95
3	Tetracosane	73543	000646-31-1	91
4	Tetratetracontane	74745	007098-22-8	91
5	Nonacosane	54526	000630-03-5	91



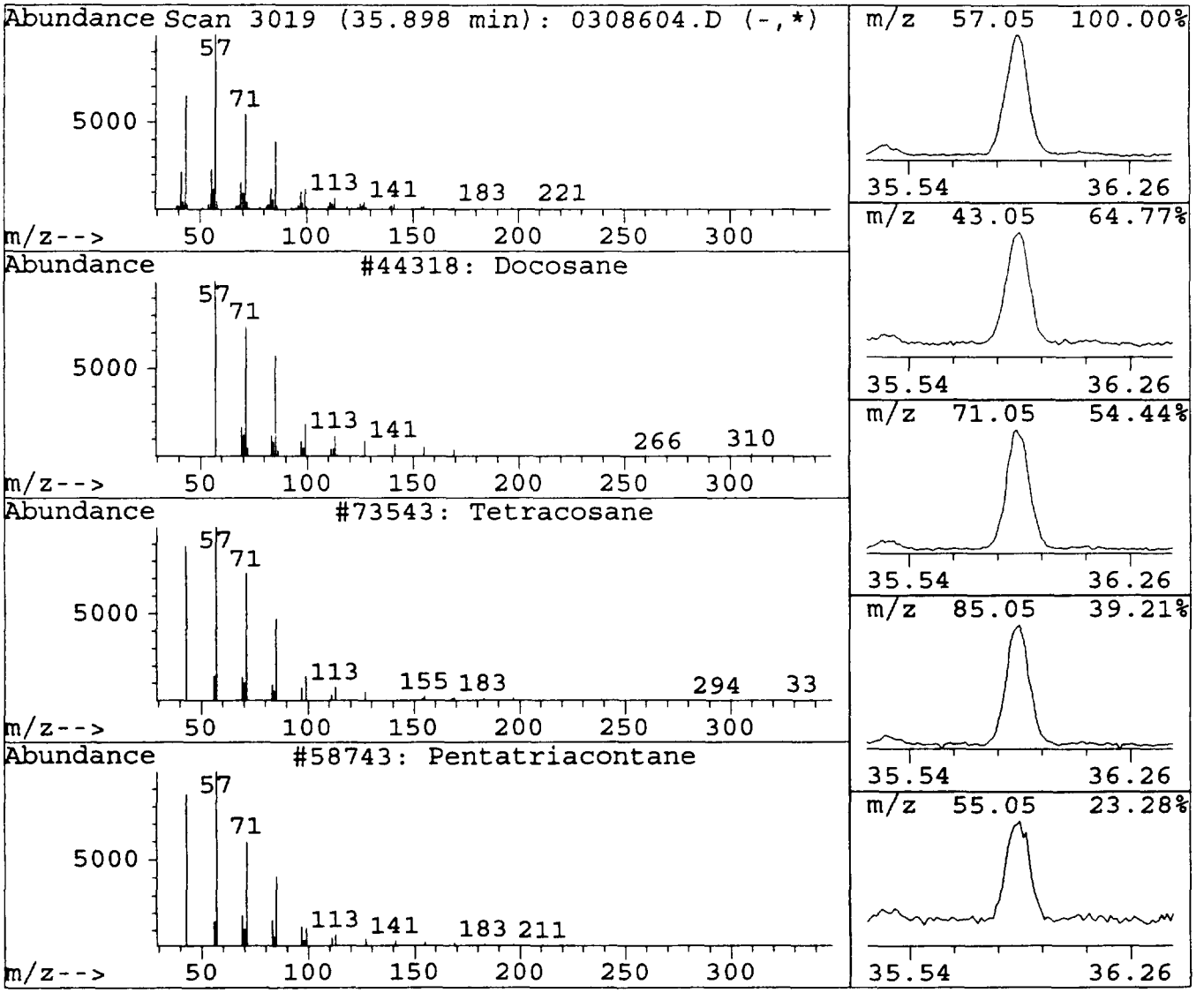
Data File : C:\HPCHEM\1\DATA\9503086.B\0308604.D
Acq On : 8 Mar 95 12:23 pm
Sample : 0309801 IEA MSD6
Misc : CS10

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
35.90	5.64 3	1193558	Perylene-d12	29.78

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	44318	000629-97-0	91
2	Tetracosane	73543	000646-31-1	90
3	Pentatriacontane	58743	000630-07-9	90
4	Dotriacontane	74490	000544-85-4	87
5	Tetratetracontane	61068	007098-22-8	87



An Aquarion Company

TENTATIVELY IDENTIFIED COMPOUNDS

2 2 0490

IEA Project Number: 2041-001(0)
IEA Sample Number: 9503098 01
Sample Identification: CS10
Applicable Fraction: Volatile _____ Base/Neutral ✓ Acid ✓ Other _____

Tentatively Identified Compounds (TIC's) are compounds which are not in the specific target compound list but may be present in the sample. An attempt to identify such compounds is made through comparison of the mass spectra of these unknown compounds in the sample with approximately 50,000 spectra contained in the computer's mass spectral library. Analytical standards are not utilized in this procedure and therefore, compounds identified in this manner are referred to as "Tentative" identifications:

IEA personnel identify and classify these compounds using identification guidelines provided by the USEPA under the Contract Laboratory Program (CLP). A gross estimation of concentration is accomplished by comparing the response of the unknown compound versus the nearest internal standard in the total ion chromatogram. As per EPA CLP guidance, TIC's are identified and quantitated only if the response is equal to or greater than 10% of the nearest internal standard. Compounds identified as "unknown" are not uncommon utilizing these guidelines since the requirements for even a tentative identification are quite stringent.

	TIC Compound Name		Estimated Concentration (ug/L) (ug/kg)
	unknown	18.06	3
2.	unknown	19.18	3
3.	unknown	20.45	2
4.	unknown alkane	23.82	12
5.	unknown alkane	24.69	38
6.	unknown alkane	25.54	68
7.	unknown alkane	26.33	81
8.	unknown alkane	26.79	3
9.	unknown alkane	27.10	76
10.	unknown alkane	27.54	3
11.	unknown alkane	27.83	58
12.	unknown alkane	28.25	3
13.	unknown alkane	28.53	36
14.	unknown alkane	29.22	27
15.	unknown alkane	29.94	18
16.	unknown alkane	30.78	14
17.	unknown alkane	31.75	10
18.	unknown alkane	32.89	6
19.	unknown alkane	34.25	4
20.	unknown alkane	35.90	3

Comments:
21
22
23

FORM TIC Rev. 120491

24
25

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS10A

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309802 Date Received: 03/04/95

Lab File ID: 0308605.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS10A

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309802 Date Received: 03/04/95

Lab File ID: 0308605.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	2	J
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

1LCF

CLIENT SAMPLE NO.

CS10A

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309802 Date Received: 03/04/95

Lab File ID: 0308605.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.	Unknown Cycloalkane	6.530	3	J
2.	Unknown Ester/Acid	17.840	3	J
3.	Unknown Alkane	23.830	19	J
4.	Unknown Alkane	24.710	57	J
5.	Unknown Alkane	25.550	98	J
6.	Unknown Alkane	26.340	120	J
7.	Unknown Alkane	26.790	6	J
8.	Unknown Alkane	27.110	110	J
9.	Unknown Alkane	27.540	5	J
10.	Unknown Alkane	27.840	83	J
11.	Unknown Alkane	28.270	4	J
12.	Unknown Alkane	28.550	54	J
13.	Unknown Alkane	28.950	3	J
14.	Unknown Alkane	29.220	39	J
15.	Unknown Alkane	29.950	26	J
16.	Unknown Alkane	30.790	21	J
17.	Unknown Alkane	31.760	15	J
18.	Unknown Alkane	32.900	10	J
19.	Unknown Alkane	34.270	6	J
20.	Unknown Alkane	35.910	4	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A
Quant Time: Mar 8 13:56 1995

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Continuing Calibration

2 2 0494

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.53	152	663272	40.00	0.01
17) Naphthalene-d8	12.43	136	3058662	40.00	0.00
31) Acenaphthene-d10	16.63	164	1698935	40.00	0.00
52) Phenanthrene-d10	20.14	188	2414104	40.00	-0.01
63) Chrysene-d12	26.54	240	2334958	40.00	0.00
71) Perylene-d12	29.79	264	2535117	40.00	0.00
System Monitoring Compounds					**%Recovery**
2) 2-Fluorophenol	7.02	112	855610	33.46	83.639%
3) Phenol-d5	9.06	99	1357697	36.15	90.371%
7) 2-Chlorophenol-d4	9.17	132	992388	35.09	87.723%
11) 1,2-Dichlorobenzene-d4	9.94	152	527666	36.56	91.398%
18) Nitrobenzene-d5	10.86	82	1188738	35.88	89.708%
35) 2-Fluorobiphenyl	15.06	172	1828380	36.53	91.320%
51) 2,4,6-Tribromophenol	18.58	330	861932	114.60	95.499%
65) Terphenyl-d14	24.07	244	2071706	38.29	95.713%
Target Compounds					**Qvalue**
61) Di-n-butylphthalate	21.79	149	472299	4.12 2J	98

DR 3/08/95

(#) = qualifier out of range (m) = manual integration

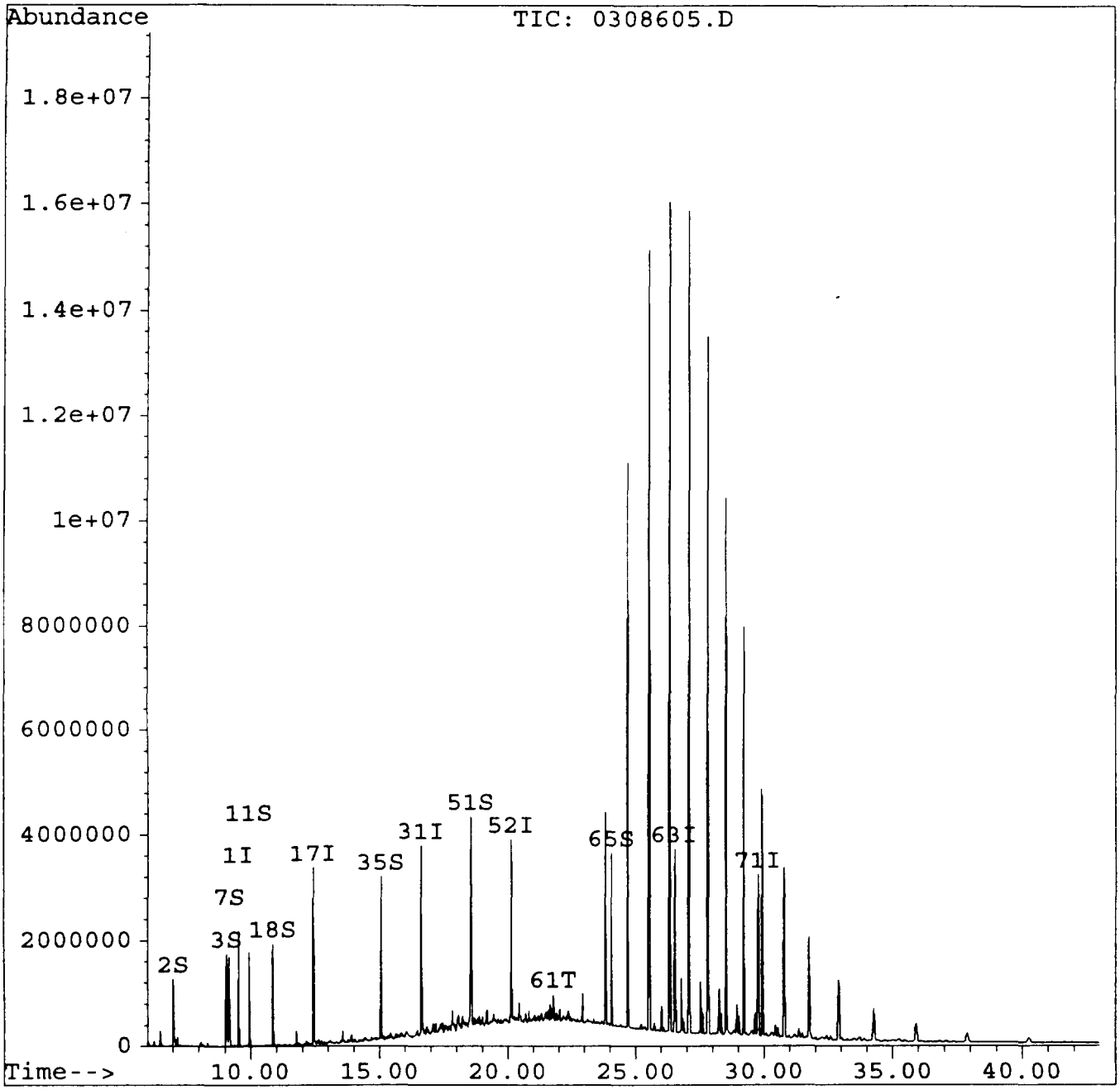
Quantitation Report

Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A
Quant Time: Mar 8 13:56 1995

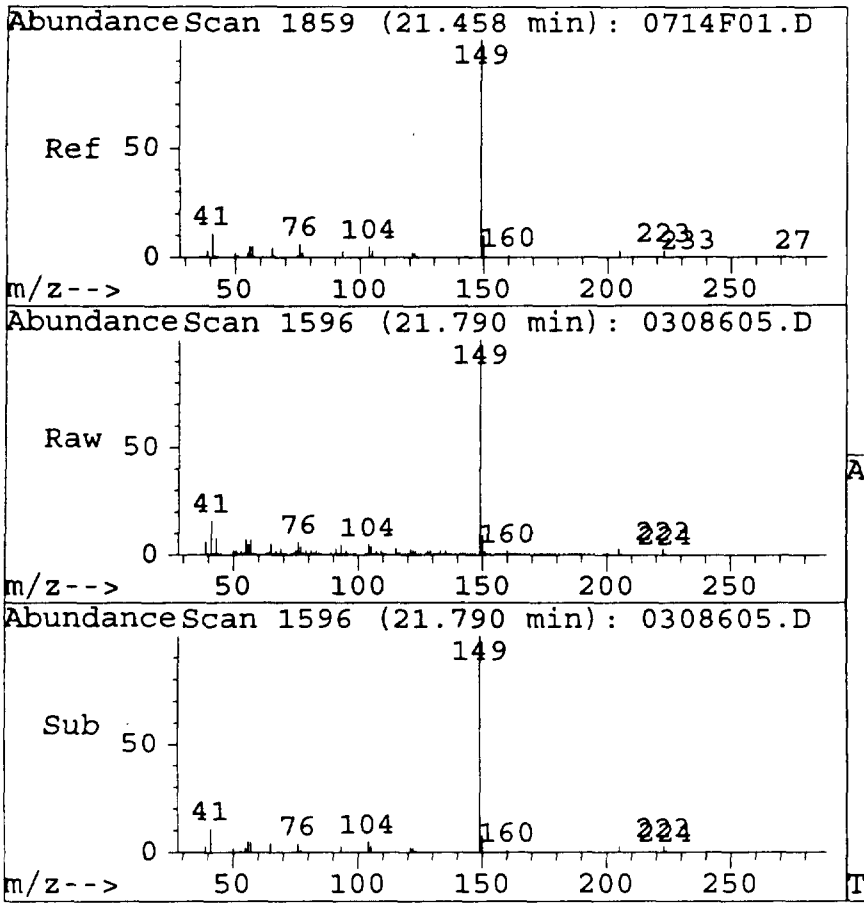
Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

2 2 0495

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Single Level Calibration



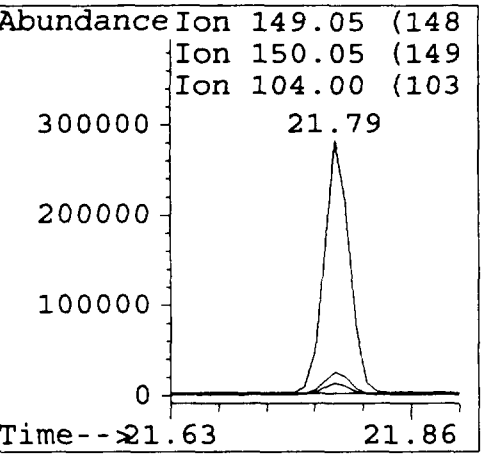
CS10B



#61
Di-n-butylphthalate
Concen: 4.12
RT: 21.79 min Scan# 1596
Delta R.T. 0.00 min
Lab File: 0308605.D
Acq: 8 Mar 95 1:12 pm

Tgt Ion:149.05 Resp: 472299

Ion	Ratio	Lower	Upper
149	100		
150	9.3	8.1	12.1
104	5.1	3.7	5.5
0	0.0	0.0	0.0



2 2 0496

Library Search Compound Report

2 2 0497

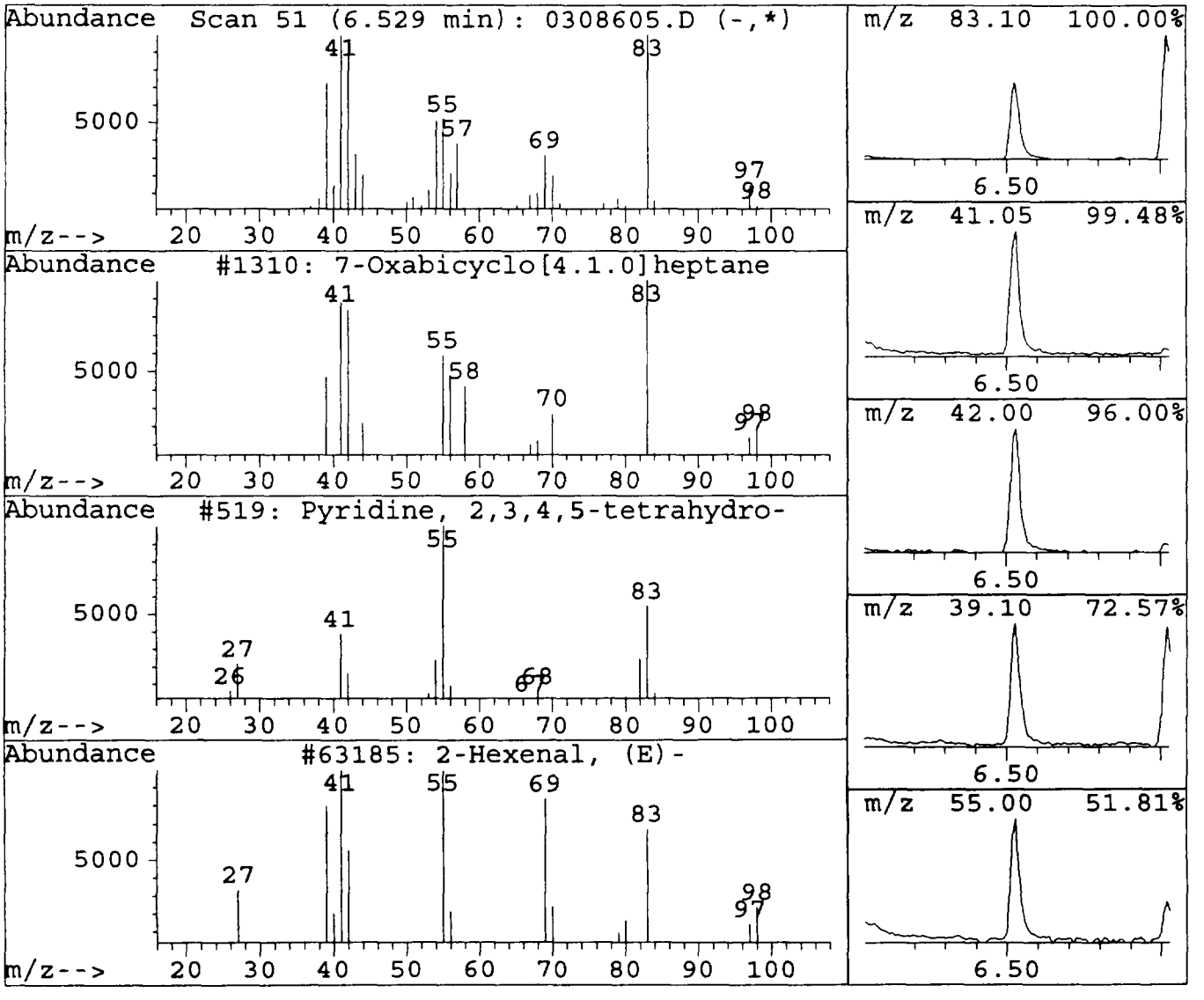
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
6.53	6.35 3	677198	1,4-dichlorobenzene-d4	9.53

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Oxabicyclo[4.1.0]heptane	1310	000286-20-4	43
2	Pyridine, 2,3,4,5-tetrahydro-	519	000505-18-0	32
3	2-Hexenal, (E)-	63185	006728-26-3	32
4	1,3-Benzodioxol-2-one, hexahydro-,	7854	019456-20-3	17
5	1-Butene, 2,3,3-trimethyl-	63244	000594-56-9	16



Library Search Compound Report

2 2 0408

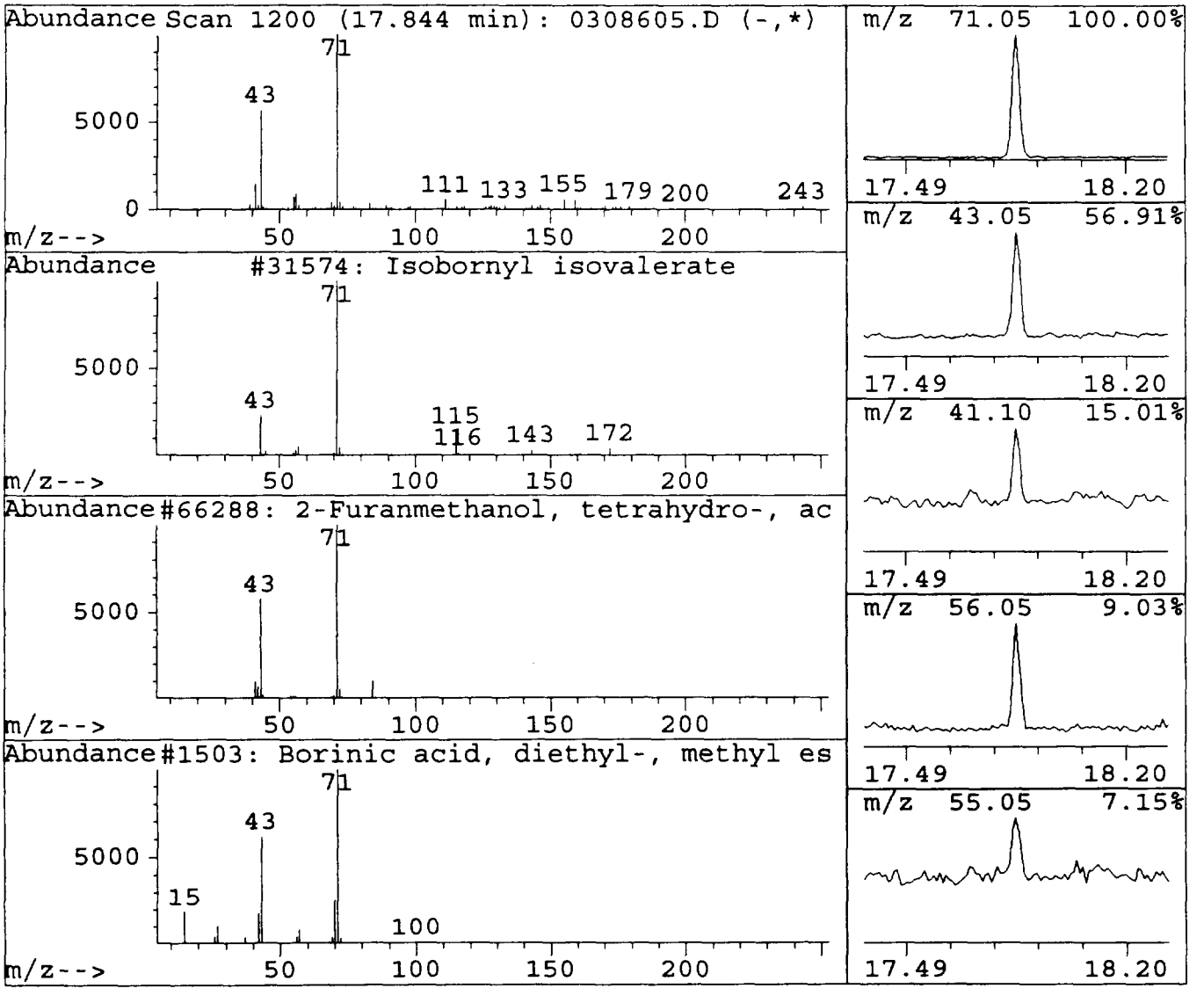
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
17.84	6.12 3	1218242	Acenaphthene-d10	16.63

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Isobornyl isovalerate	31574	000000-00-0	64
2	2-Furanmethanol, tetrahydro-, aceta	66288	000637-64-9	53
3	Borinic acid, diethyl-, methyl este	1503	007397-46-8	50
4	Butanoic acid, 2-butoxy-1-methyl-2-	26676	007492-70-8	50
5	Propanoic acid, 2-methyl-, 1-methyl	11949	054340-93-1	42



Library Search Compound Report

2 2 0499

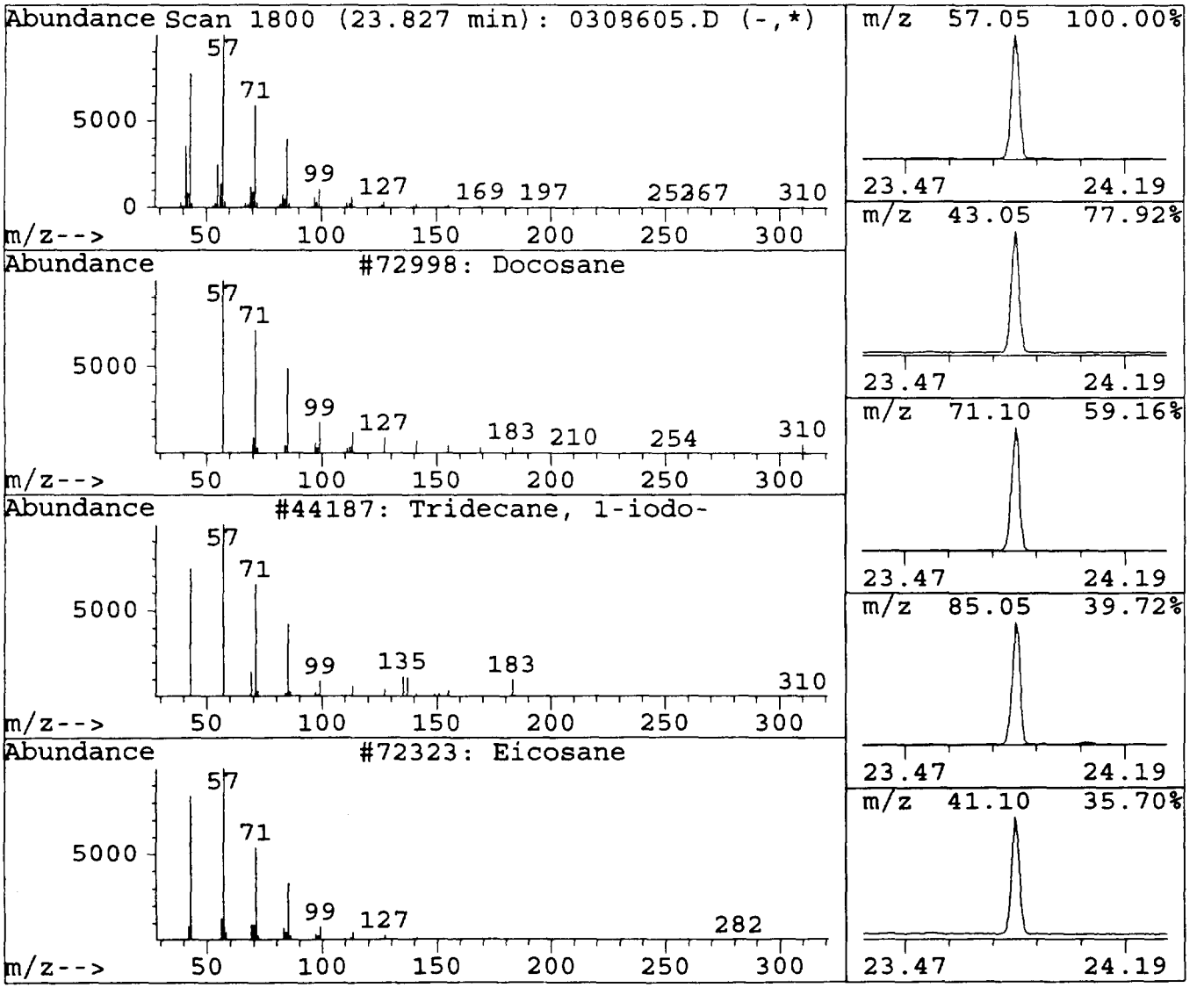
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
23.83	37.49 19	7263337	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	72998	000629-97-0	97
2	Tridecane, 1-iodo-	44187	035599-77-0	91
3	Eicosane	72323	000112-95-8	91
4	Heptadecane	71193	000629-78-7	91
5	Nonadecane	71949	000629-92-5	91



Library Search Compound Report

2 2 0500

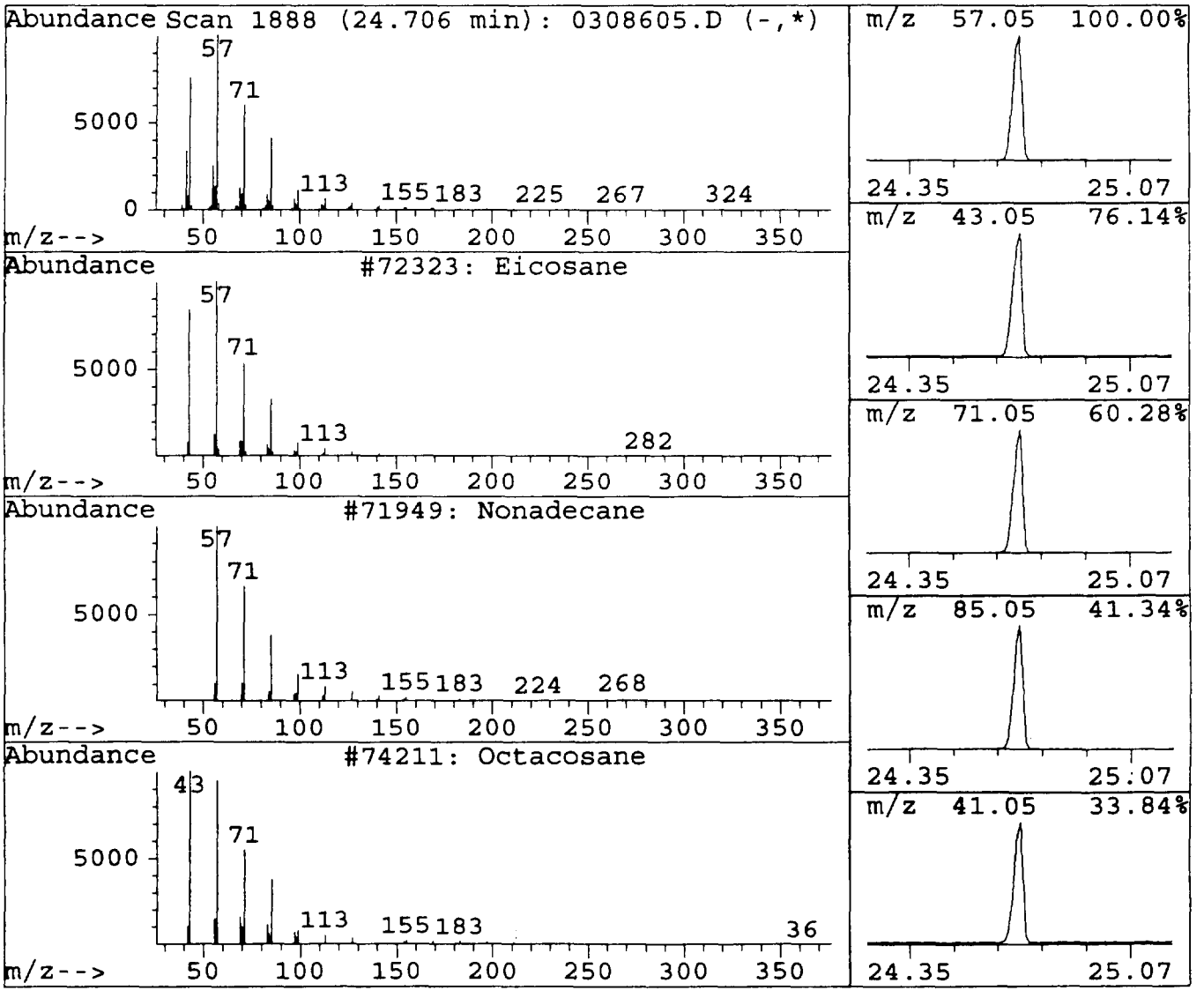
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
24.71	113.39 57	21966308	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	72323	000112-95-8	91
2	Nonadecane	71949	000629-92-5	91
3	Octacosane	74211	000630-02-4	91
4	Heptadecane	71191	000629-78-7	91
5	Hexadecane	70790	000544-76-3	91



Library Search Compound Report

2 2 0501

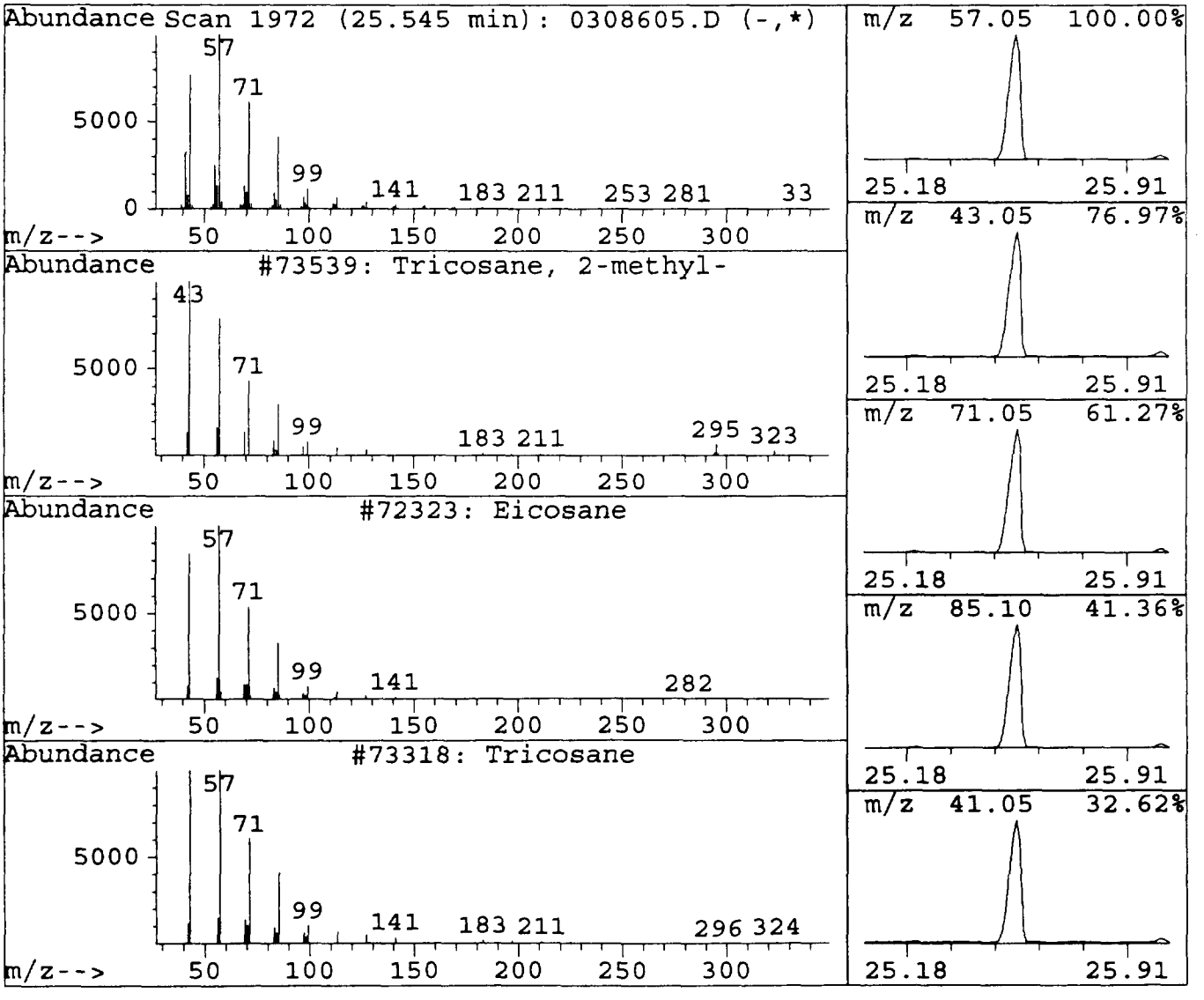
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
25.55	195.92 98	37952464	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tricosane, 2-methyl-	73539	001928-30-9	91
2	Eicosane	72323	000112-95-8	91
3	Tricosane	73318	000638-67-5	91
4	10-Methylnonadecane	39858	000000-00-0	91
5	Heneicosane	42201	000629-94-7	90



Library Search Compound Report

2 2 0502

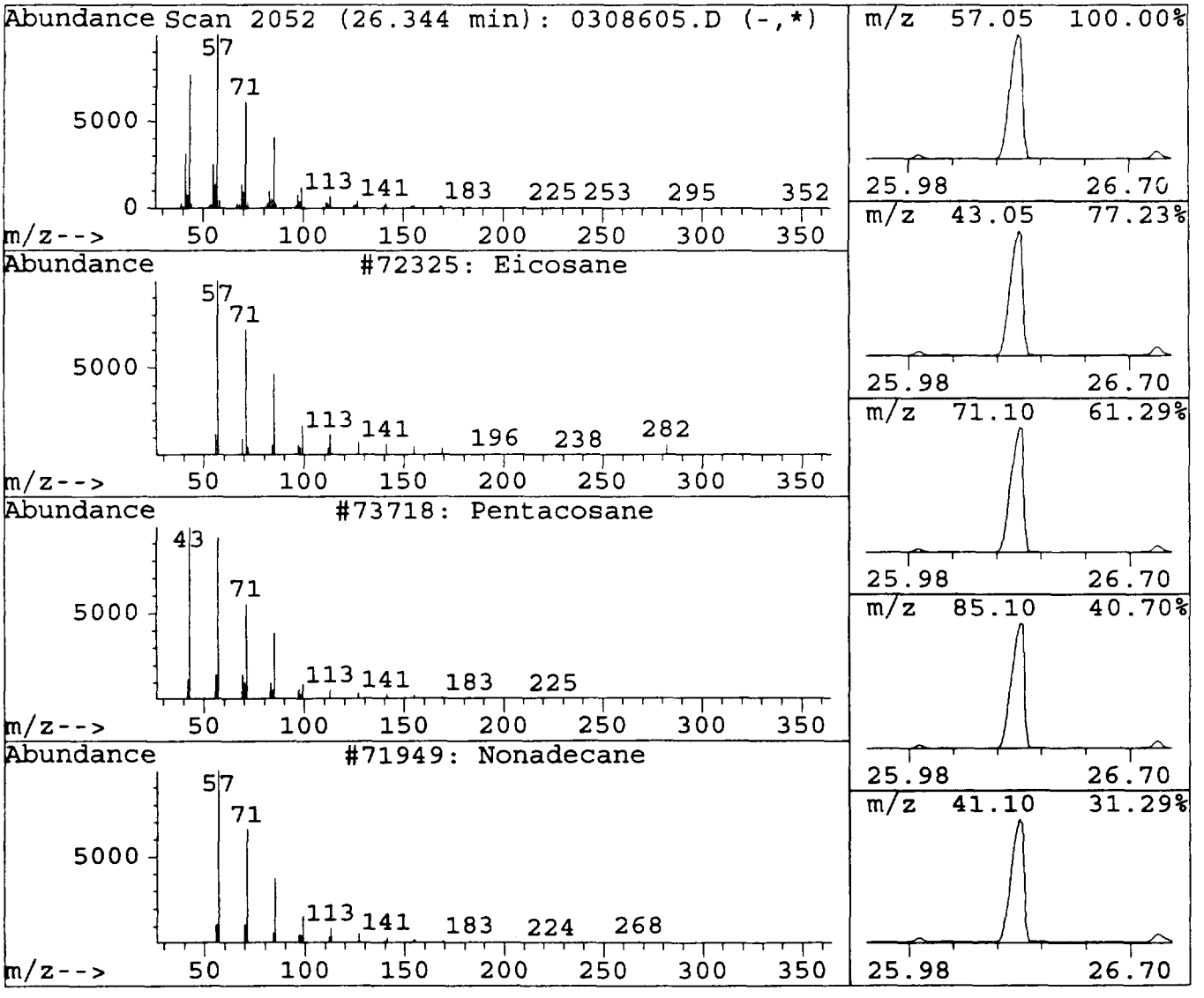
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc		Area	Relative to ISTD	R.T.
26.34	231.78	116	44899605	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	72325	000112-95-8	95
2	Pentacosane	73718	000629-99-2	91
3	Nonadecane	71949	000629-92-5	91
4	Eicosane, 10-methyl-	42197	054833-23-7	91
5	Eicosane, 7-hexyl-	50999	055333-99-8	91



Library Search Compound Report

2 2 0503

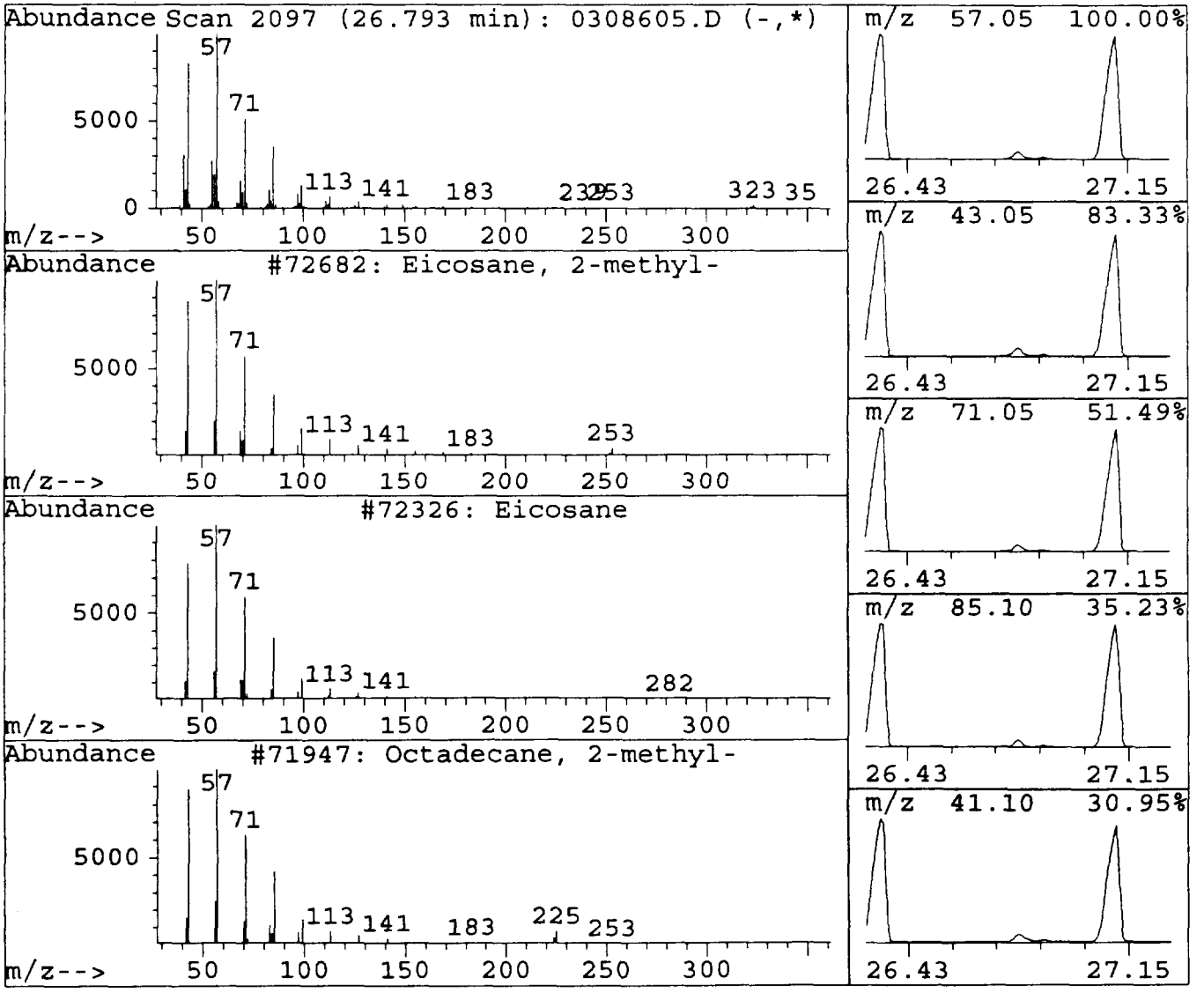
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
26.79	12.23 6	2368511	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 2-methyl-	72682	001560-84-5	91
2	Eicosane	72326	000112-95-8	91
3	Octadecane, 2-methyl-	71947	001560-88-9	91
4	Tricosane, 2-methyl-	73540	001928-30-9	90
5	Heptadecane, 9-octyl-	49558	007225-64-1	87



Library Search Compound Report

2 2 0504

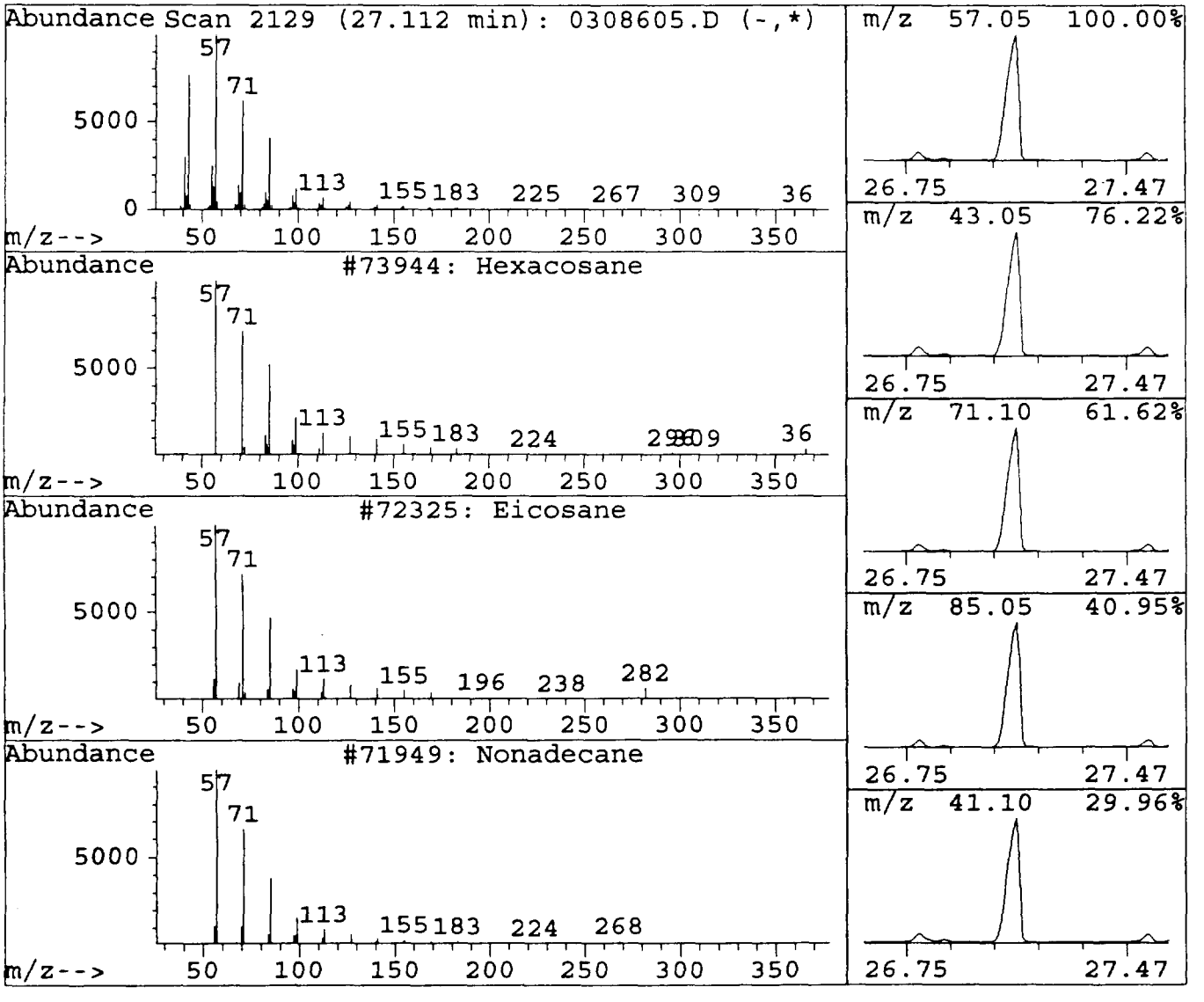
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
27.11	217.52 109	42137450	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexacosane	73944	000630-01-3	97
2	Eicosane	72325	000112-95-8	94
3	Nonadecane	71949	000629-92-5	91
4	Docosane	44318	000629-97-0	91
5	Octadecane	71559	000593-45-3	91



Library Search Compound Report

2 2 0505

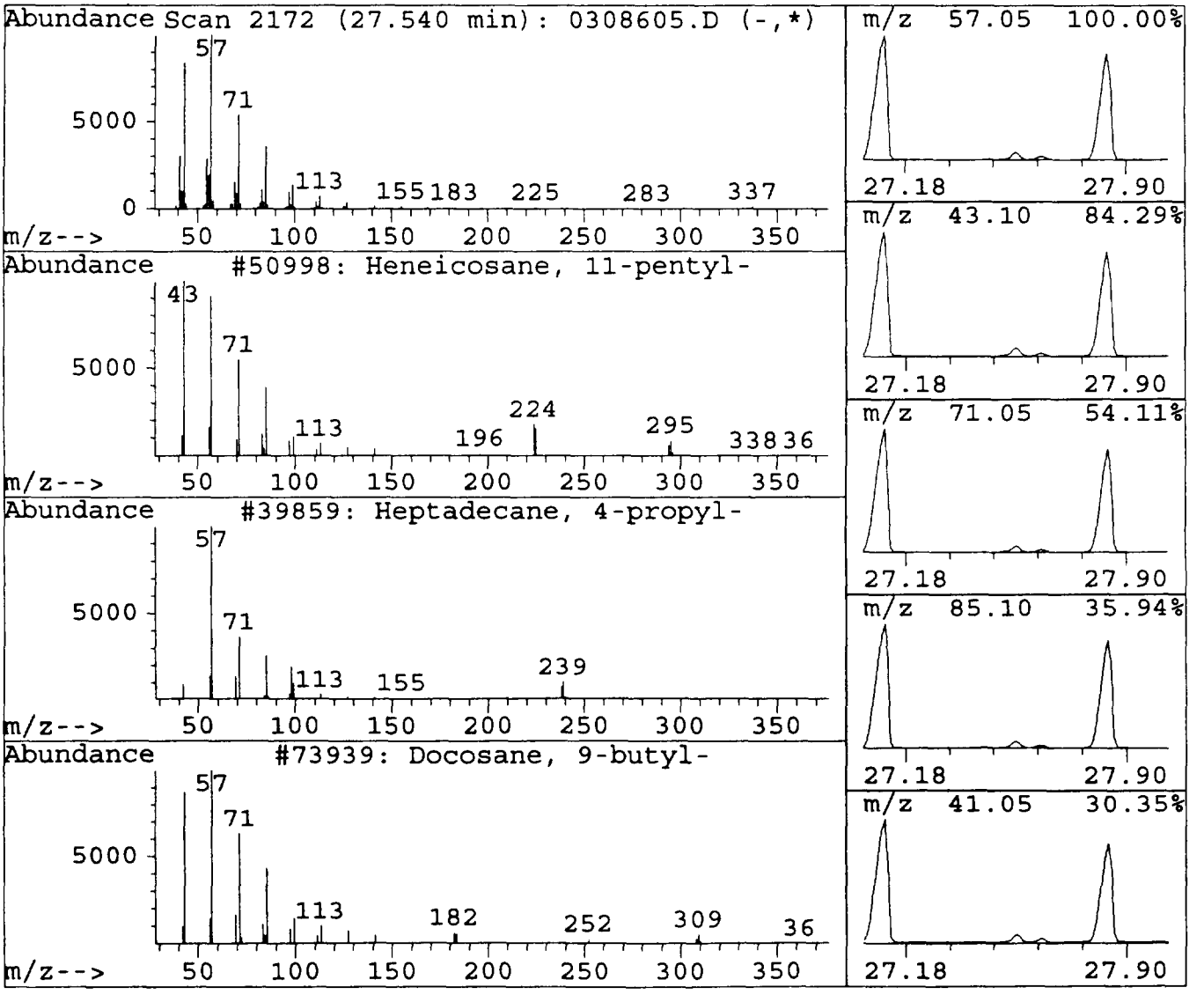
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10B

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
27.54	9.85 5	1907539	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heneicosane, 11-pentyl-	50998	014739-72-1	90
2	Heptadecane, 4-propyl-	39859	055044-10-5	86
3	Docosane, 9-butyl-	73939	055282-14-9	86
4	Pentatriacontane	58743	000630-07-9	86
5	Docosane, 7-butyl-	51006	055282-15-0	80



Library Search Compound Report

2 2 0506

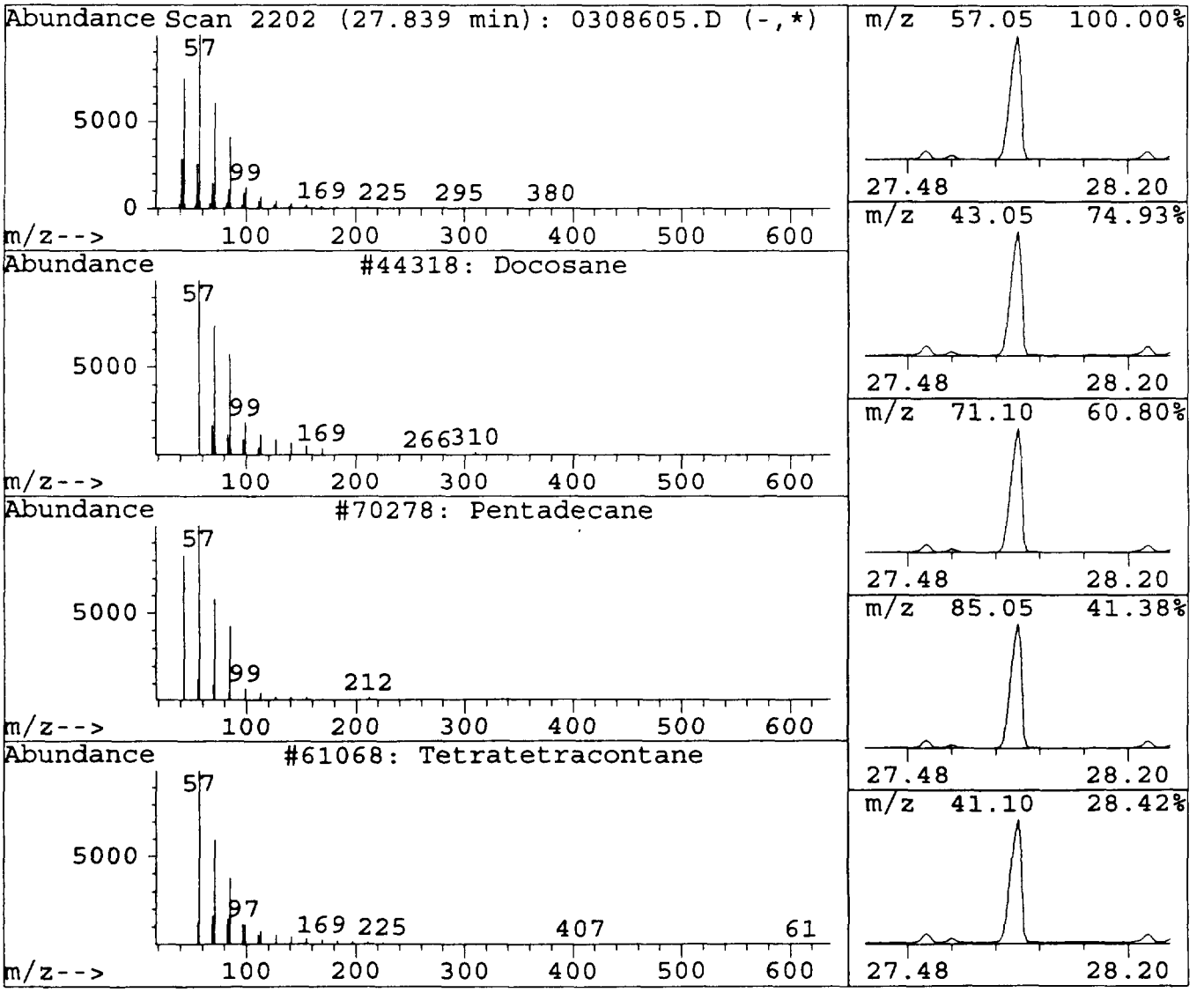
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
27.84	166.31 83	32217104	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	44318	000629-97-0	98
2	Pentadecane	70278	000629-62-9	91
3	Tetratetracontane	61068	007098-22-8	91
4	Tetracosane	73543	000646-31-1	91
5	Eicosane	72323	000112-95-8	91



Library Search Compound Report

2 2 0507

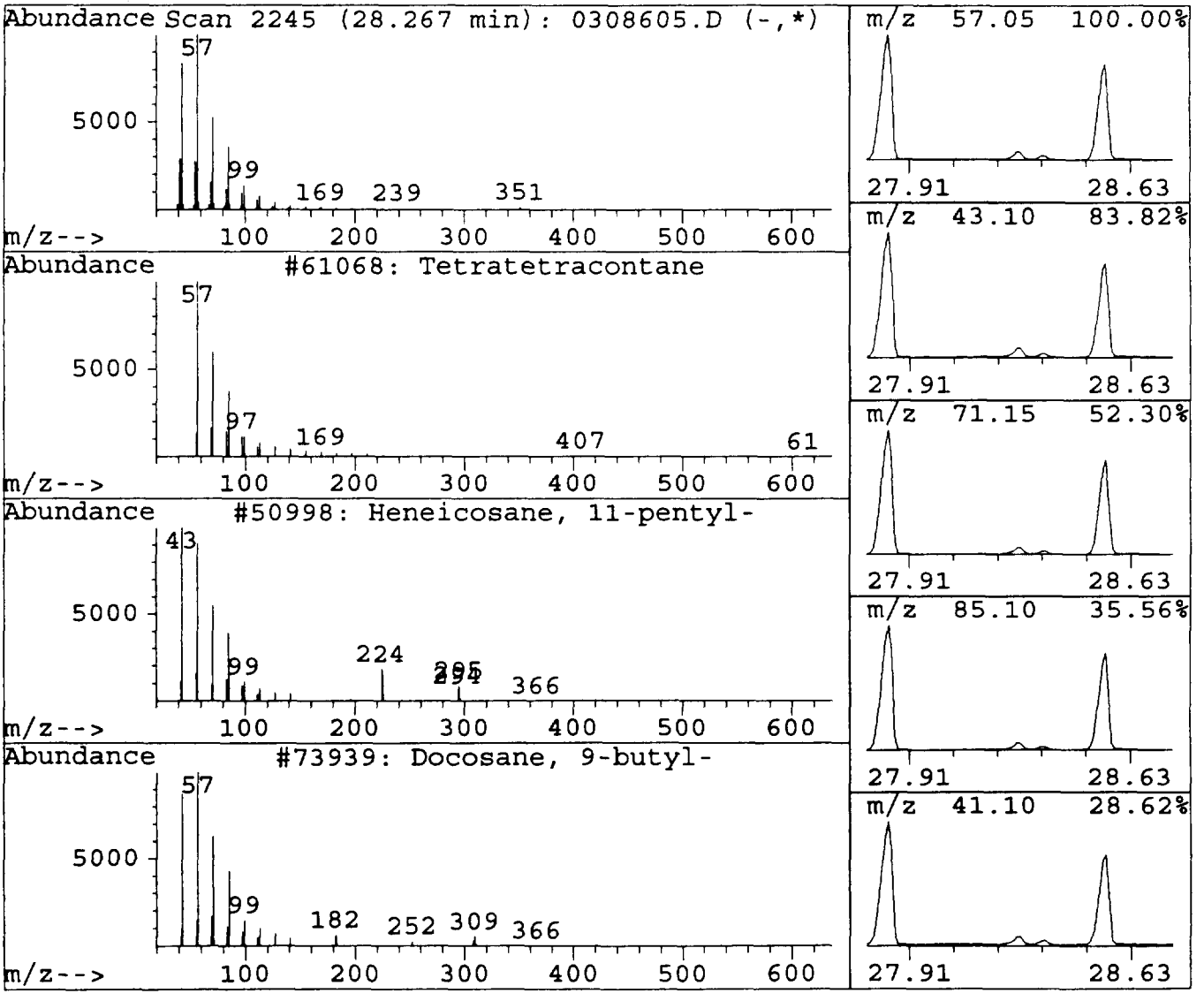
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
28.27	8.82 4	1869538	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetratetracontane	61068	007098-22-8	90
2	Heneicosane, 11-pentyl-	50998	014739-72-1	90
3	Docosane, 9-butyl-	73939	055282-14-9	90
4	Dotriacontane	74491	000544-85-4	87
5	Pentatriacontane	58743	000630-07-9	87



Library Search Compound Report

2 2 0503

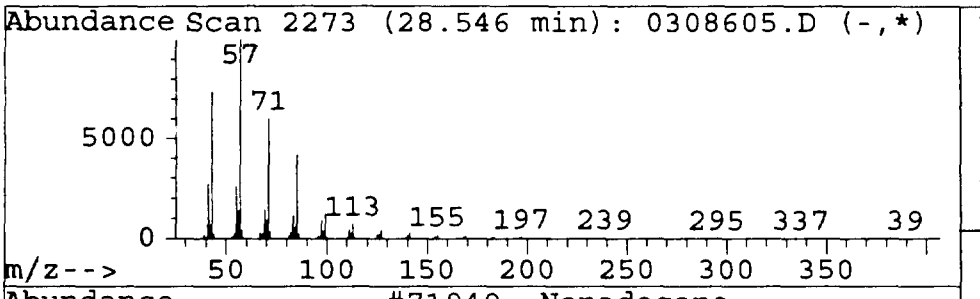
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

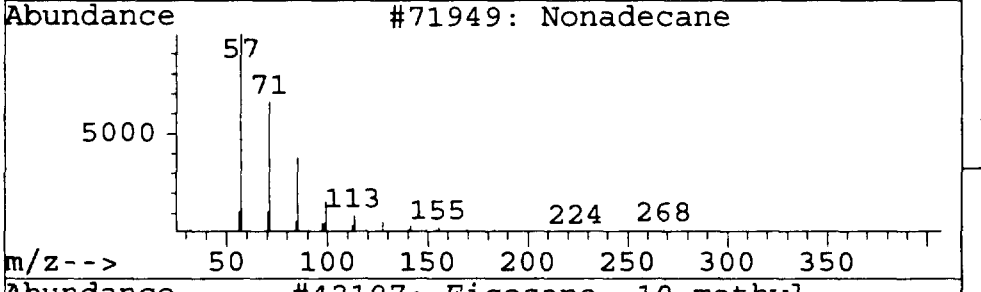
Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

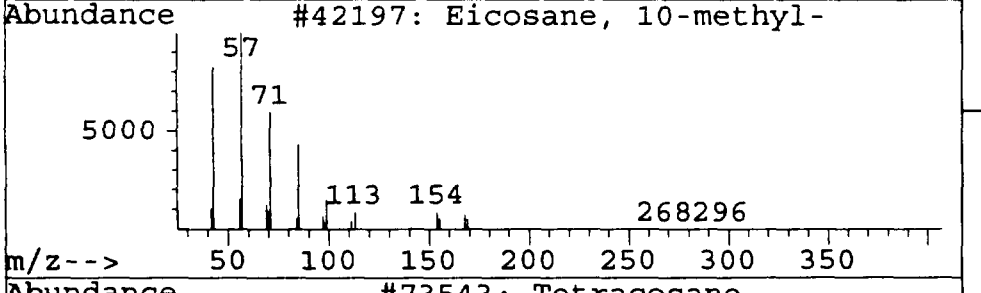
Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

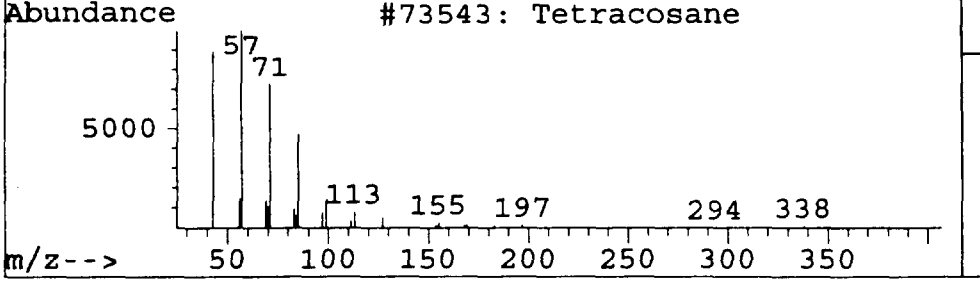
R.T.	Conc	Area	Relative to ISTD	R.T.
28.55	107.16 54	22713965	Perylene-d12	29.79

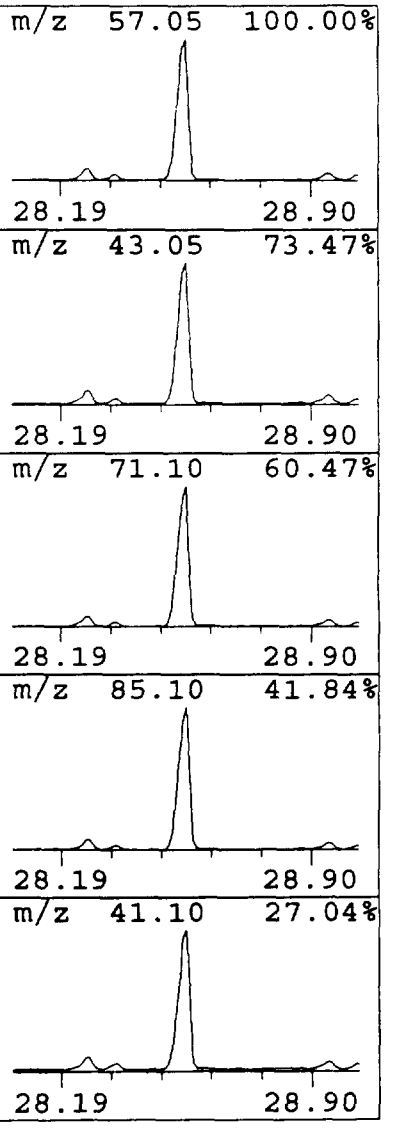
Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonadecane	71949	000629-92-5	97
2	Eicosane, 10-methyl-	42197	054833-23-7	93
3	Tetracosane	73543	000646-31-1	91
4	Pentadecane	70278	000629-62-9	91
5	Docosane	44318	000629-97-0	91











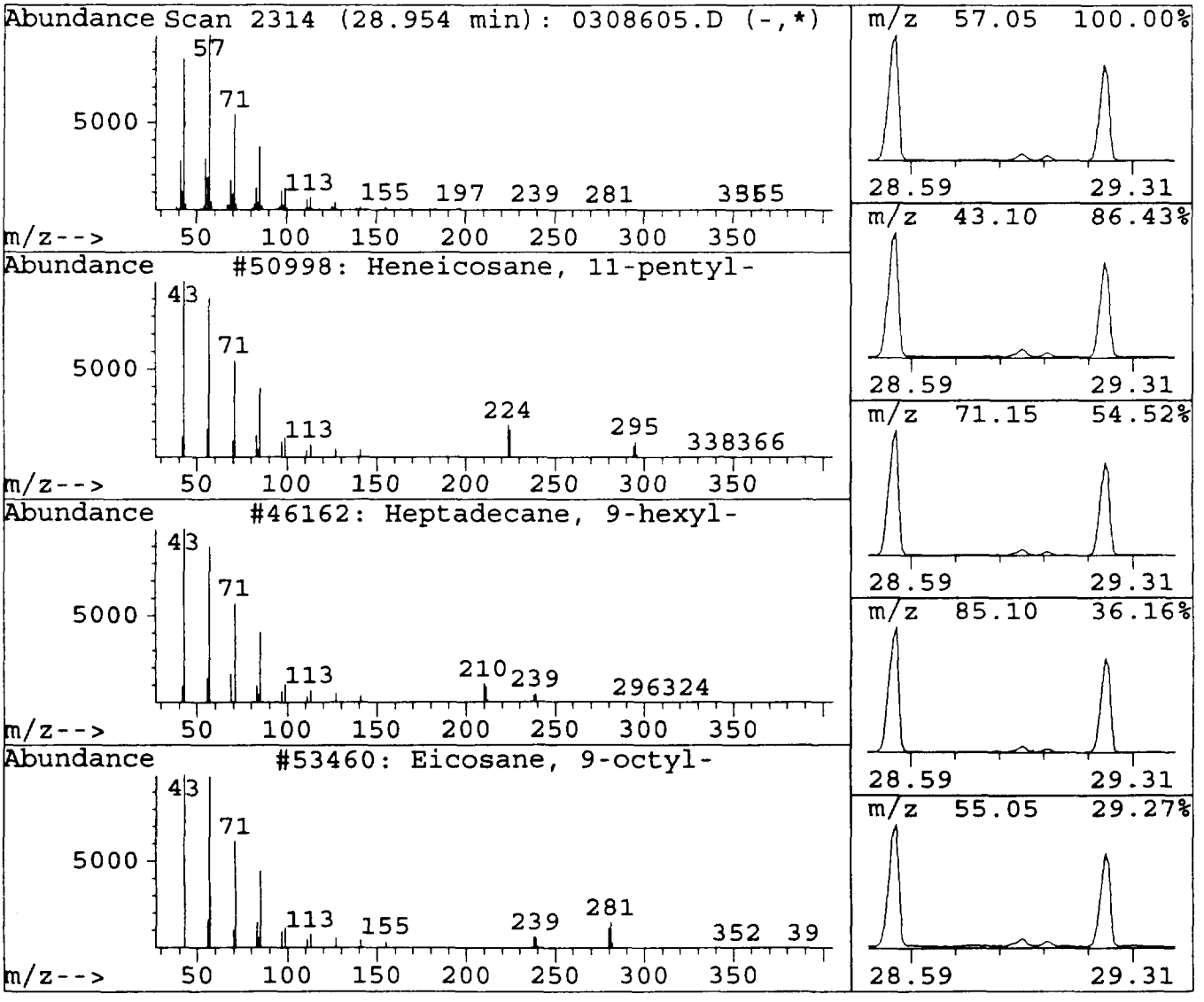
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
28.95	6.273	1328751	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heneicosane, 11-pentyl-	50998	014739-72-1	90
2	Heptadecane, 9-hexyl-	46162	055124-79-3	90
3	Eicosane, 9-octyl-	53460	013475-77-9	90
4	Docosane, 7-butyl-	51006	055282-15-0	90
5	Hexatriacontane	74636	000630-06-8	90



Library Search Compound Report

2 2 0510

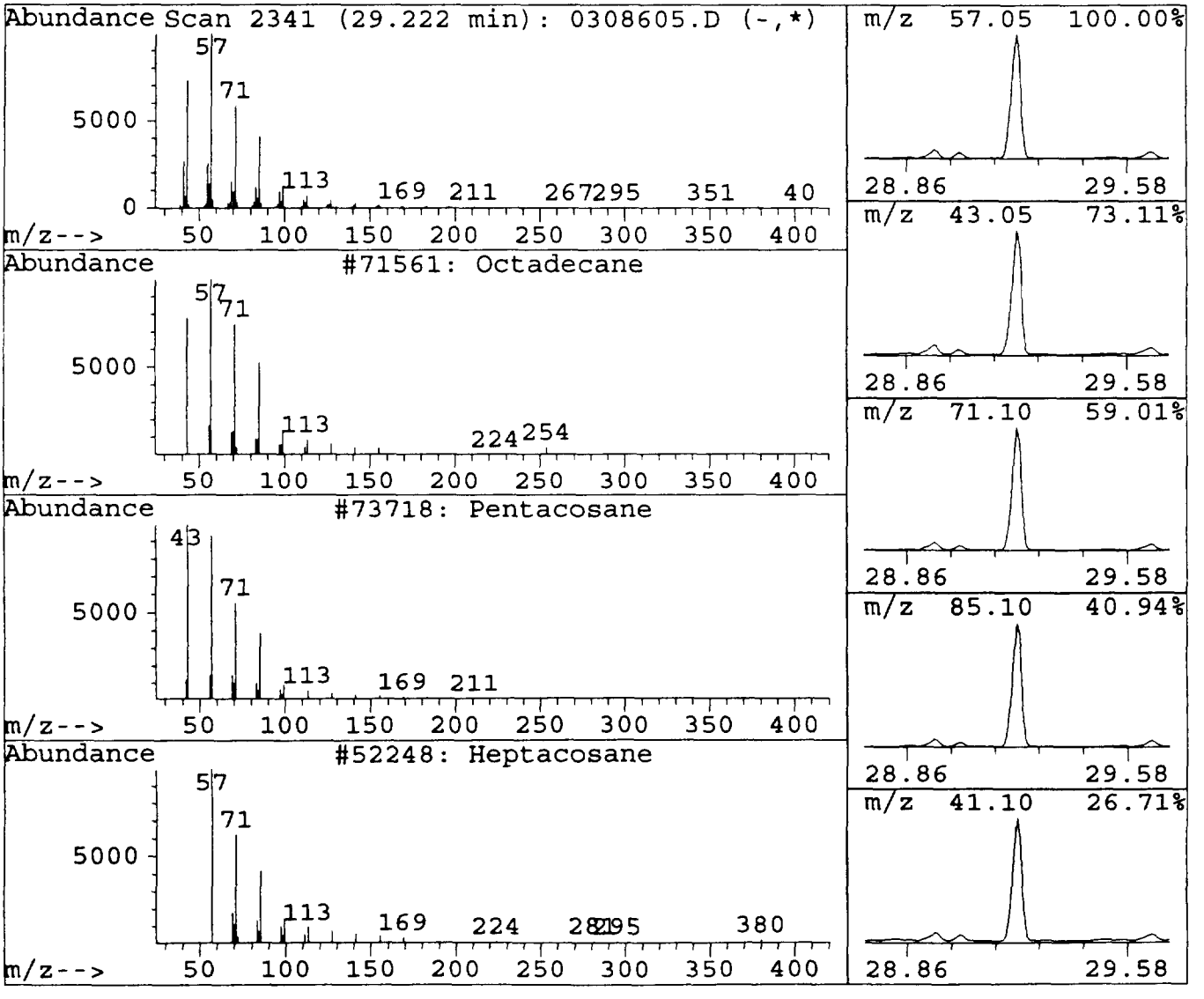
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10a

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
29.22	77.46 39	16418165	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecane	71561	000593-45-3	95
2	Pentacosane	73718	000629-99-2	91
3	Heptacosane	52248	000593-49-7	91
4	Pentatriacontane	58743	000630-07-9	91
5	Eicosane	72323	000112-95-8	90



Library Search Compound Report

2 2 0511

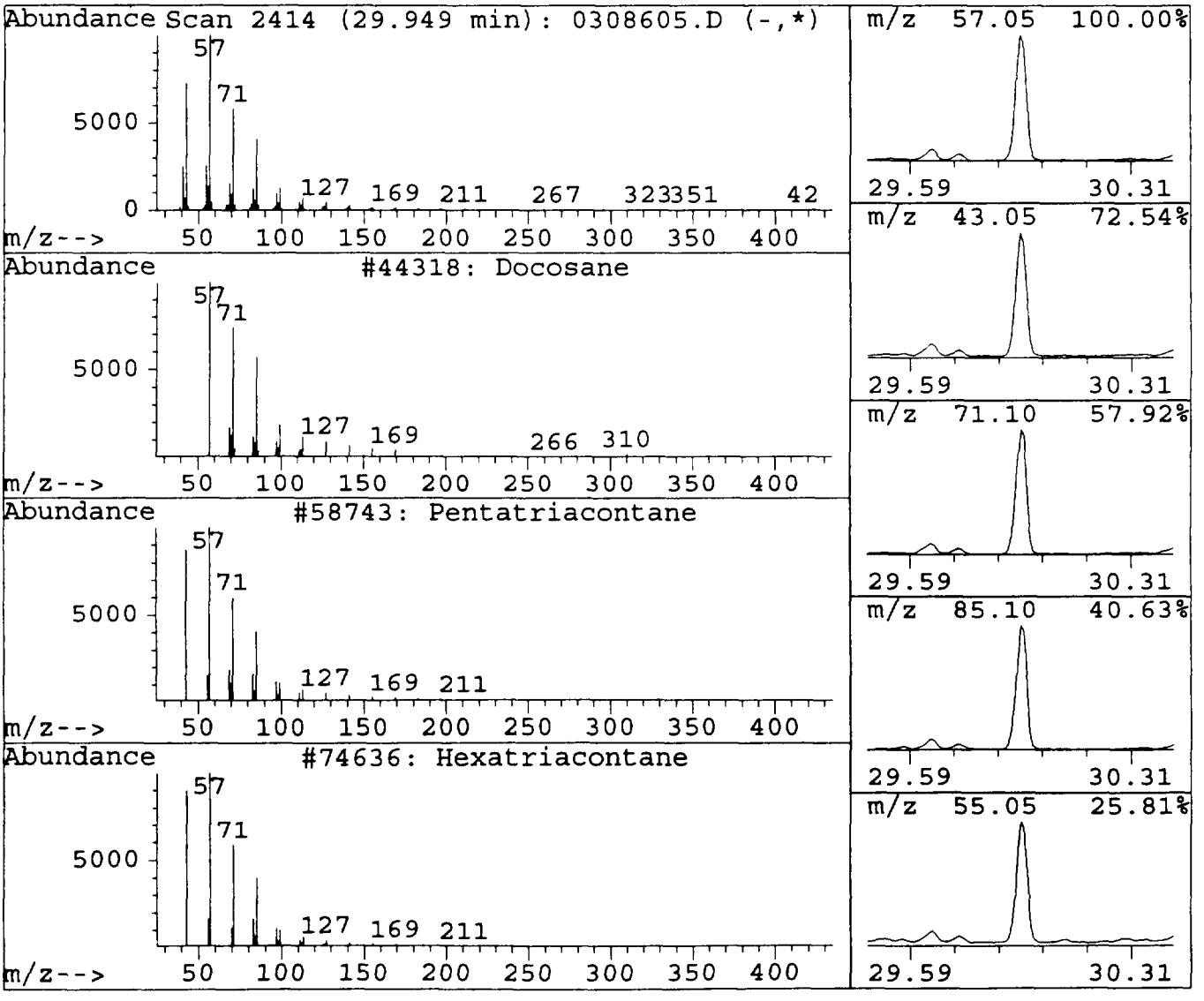
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
29.95	53.09 2C	11252659	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	44318	000629-97-0	94
2	Pentatriacontane	58743	000630-07-9	91
3	Hexatriacontane	74636	000630-06-8	91
4	Eicosane	72323	000112-95-8	90
5	Tetratriacontane	58265	014167-59-0	90



Library Search Compound Report

2 2 0512

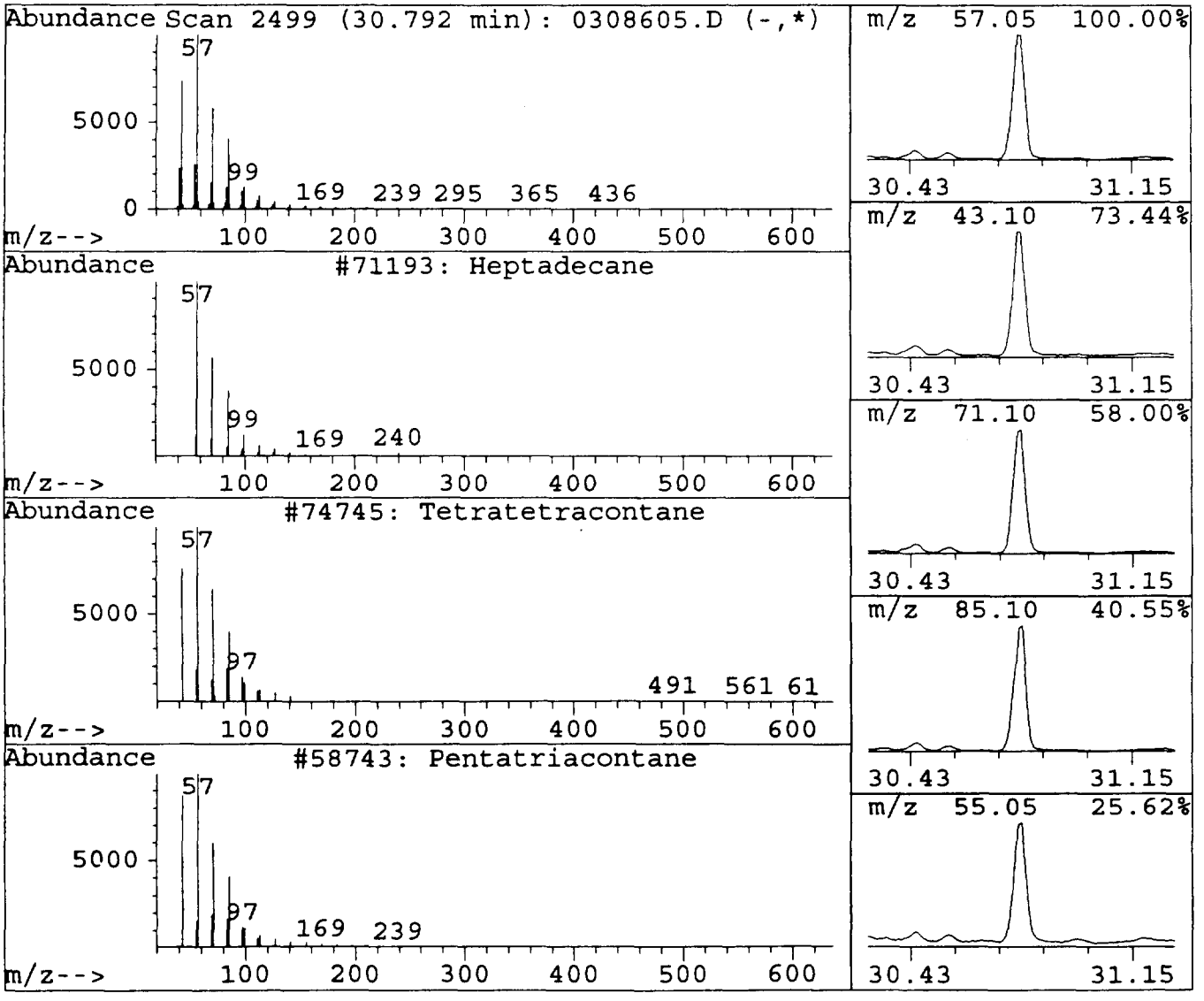
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
30.79	41.41 21	8776584	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane	71193	000629-78-7	94
2	Tetratetracontane	74745	007098-22-8	91
3	Pentatriacontane	58743	000630-07-9	91
4	Tetracosane	73543	000646-31-1	91
5	Hexatriacontane	59136	000630-06-8	90



Library Search Compound Report

2 2 0513

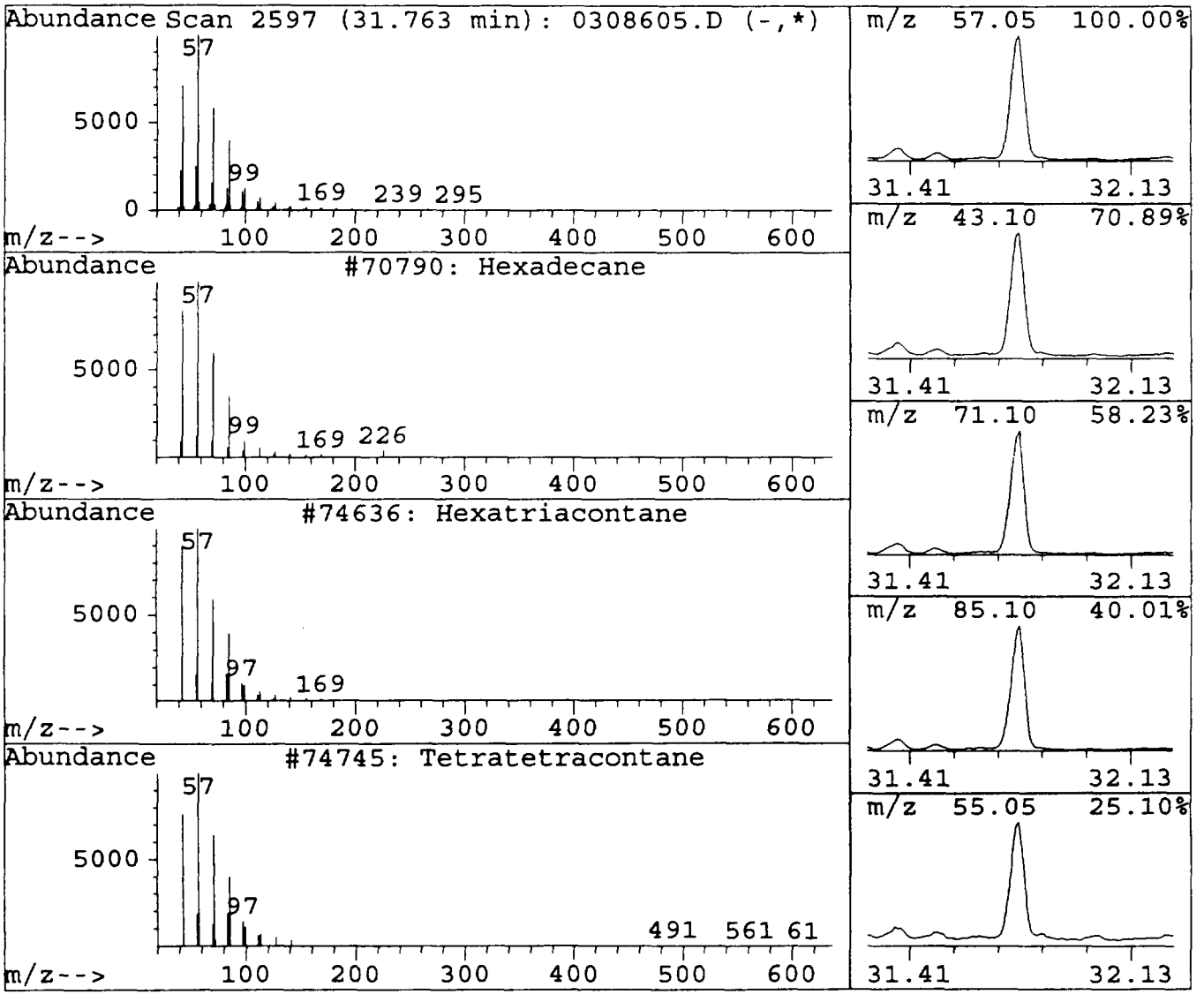
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
31.76	29.30 15	6210697	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	70790	000544-76-3	94
2	Hexatriacontane	74636	000630-06-8	94
3	Tetratetracontane	74745	007098-22-8	91
4	Docosane	44318	000629-97-0	90
5	Nonacosane	54526	000630-03-5	90



Library Search Compound Report

2 2 0514

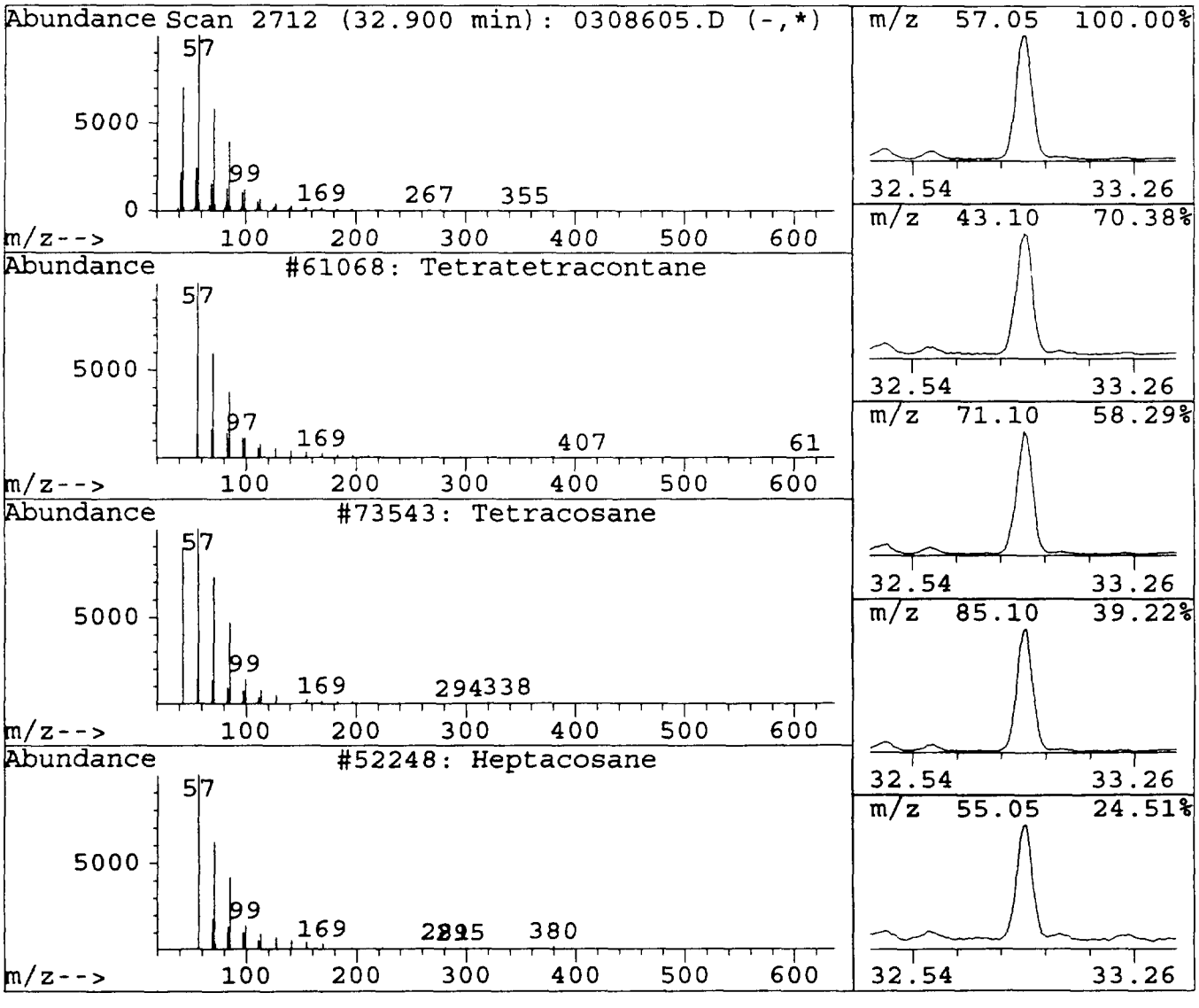
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS16A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
32.90	19.67 10	4169650	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetratetracontane	61068	007098-22-8	91
2	Tetracosane	73543	000646-31-1	91
3	Heptacosane	52248	000593-49-7	91
4	Docosane	44318	000629-97-0	91
5	Nonacosane	54526	000630-03-5	90



Library Search Compound Report

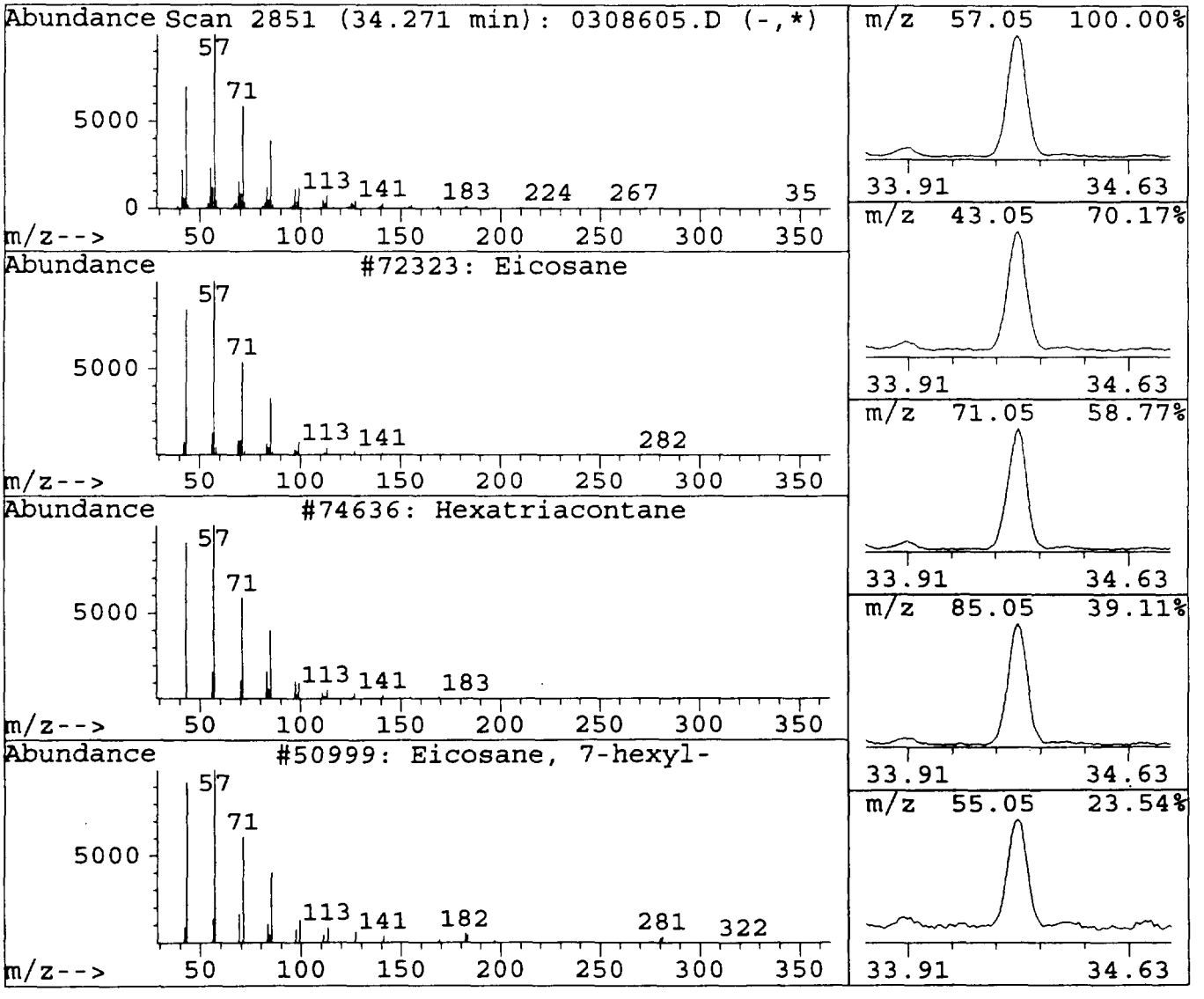
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
34.27	12.74 6	2699716	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	72323	000112-95-8	96
2	Hexatriacontane	74636	000630-06-8	95
3	Eicosane, 7-hexyl-	50999	055333-99-8	91
4	Tetracosane	73543	000646-31-1	91
5	Docosane, 9-butyl-	73939	055282-14-9	87



Library Search Compound Report

2 2 0516

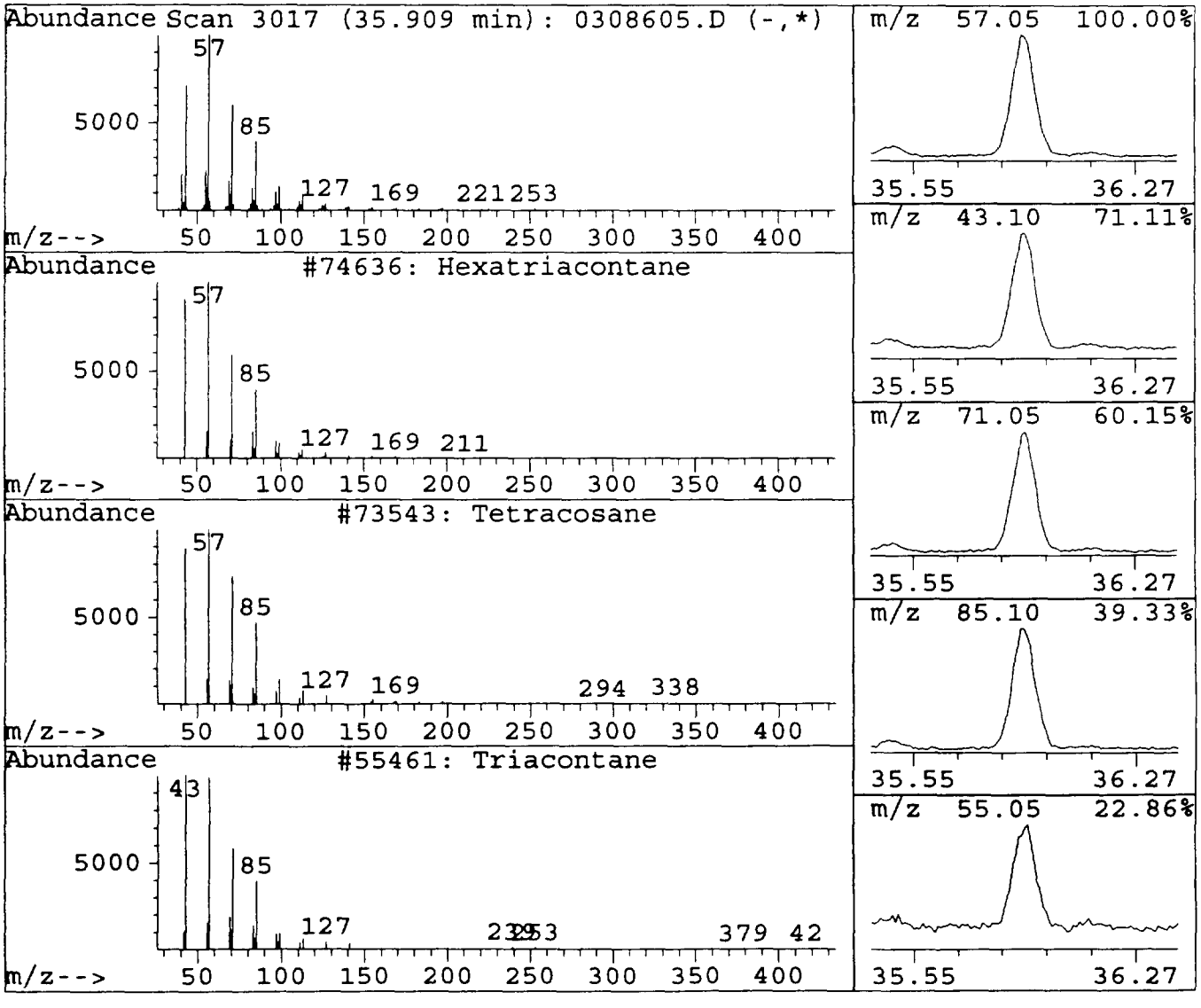
Data File : C:\HPCHEM\1\DATA\9503086.B\0308605.D
Acq On : 8 Mar 95 1:12 pm
Sample : 0309802 IEA MSD6
Misc : CS10A

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
35.91	8.54 4	1810412	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexatriacontane	74636	000630-06-8	95
2	Tetracosane	73543	000646-31-1	91
3	Triacontane	55461	000638-68-6	91
4	Dotriacontane	74490	000544-85-4	91
5	Tricosane	46165	000638-67-5	91



TENTATIVELY IDENTIFIED COMPOUNDS

IEA Project Number: 2041-001(0)
IEA Sample Number: 9503098 02
Sample Identification: CS10A
Applicable Fraction: Volatile _____ Base/Neutral ✓ Acid ✓ Other _____

2 2 0517

Tentatively Identified Compounds (TIC's) are compounds which are not in the specific target compound list but may be present in the sample. An attempt to identify such compounds is made through comparison of the mass spectra of these unknown compounds in the sample with approximately 50,000 spectra contained in the computer's mass spectral library. Analytical standards are not utilized in this procedure and therefore, compounds identified in this manner are referred to as "Tentative" identifications:

IEA personnel identify and classify these compounds using identification guidelines provided by the USEPA under the Contract Laboratory Program (CLP). A gross estimation of concentration is accomplished by comparing the response of the unknown compound versus the nearest internal standard in the total ion chromatogram. As per EPA CLP guidance, TIC's are identified and quantitated only if the response is equal to or greater than 10% of the nearest internal standard. Compounds identified as "unknown" are not uncommon utilizing these guidelines since the requirements for even a tentative identification are quite stringent.

	TIC Compound Name		Estimated Concentration (ug/L) (ug/kg)
	unknown cycloalkane	6.53	3
	unknown ester/acid	17.84	3
3.	unknown alkane	23.83	19
4.	unknown alkane	24.71	57
5.	unknown alkane	25.55	98
6.	unknown alkane	26.34	120
7.	unknown alkane	26.79	6
8.	unknown alkane	27.11	110
9.	unknown alkane	27.54	5
10.	unknown alkane	27.84	83
11.	unknown alkane	28.27	4
12.	unknown alkane	28.55	54
13.	unknown alkane	28.95	3
14.	unknown alkane	29.22	39
15.	unknown alkane	29.95	26
16.	unknown alkane	30.79	21
17.	unknown alkane	31.76	15
18.	unknown alkane	32.90	10
19.	unknown alkane	34.27	6
20.	unknown alkane	35.91	4

Comments:
21
22
23

FORM TIC Rev. 120491

24
25

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS15

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309803 Date Received: 03/04/95

Lab File ID: 0308606.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS15

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309803 Date Received: 03/04/95

Lab File ID: 0308606.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

CS15

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309803 Date Received: 03/04/95

Lab File ID: 0308606.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.	Unknown	18.070	3	J
2.	Unknown	19.190	3	J
3.	Unknown	20.460	2	J
4.	Unknown Alkane	23.830	4	J
5.	Unknown Alkane	24.690	13	J
6.	Unknown Alkane	25.530	24	J
7.	Unknown Alkane	26.310	30	J
8.	Unknown Alkane	27.080	28	J
9.	Unknown Alkane	27.820	21	J
10.	Unknown Alkane	28.520	13	J
11.	Unknown Alkane	29.210	9	J
12.	Unknown Alkane	29.950	6	J
13.	Unknown Alkane	30.780	5	J
14.	Unknown Alkane	31.750	3	J
15.	Unknown Alkane	32.900	2	J
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report 2 2 0521

Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15
Quant Time: Mar 8 14:42 1995

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Continuing Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.53	152	658469	40.00	0.01
17) Naphthalene-d8	12.43	136	3054995	40.00	0.00
31) Acenaphthene-d10	16.64	164	1725735	40.00	0.01
52) Phenanthrene-d10	20.15	188	2426196	40.00	0.00
63) Chrysene-d12	26.54	240	2361588	40.00	0.00
71) Perylene-d12	29.79	264	2587253	40.00	0.00

System Monitoring Compounds					%Recovery
2) 2-Fluorophenol	7.03	112	798289	31.44	78.605%
3) Phenol-d5	9.06	99	1297138	34.79	86.970%
7) 2-Chlorophenol-d4	9.17	132	939982	33.48	83.697%
11) 1,2-Dichlorobenzene-d4	9.94	152	507022	35.38	88.462%
18) Nitrobenzene-d5	10.86	82	1137345	34.37	85.932%
35) 2-Fluorobiphenyl	15.06	172	1803084	35.46	88.658%
51) 2,4,6-Tribromophenol	18.57	330	843534	110.41	92.009%
65) Terphenyl-d14	24.07	244	2004439	36.62	91.561%

Target Compounds Qvalue

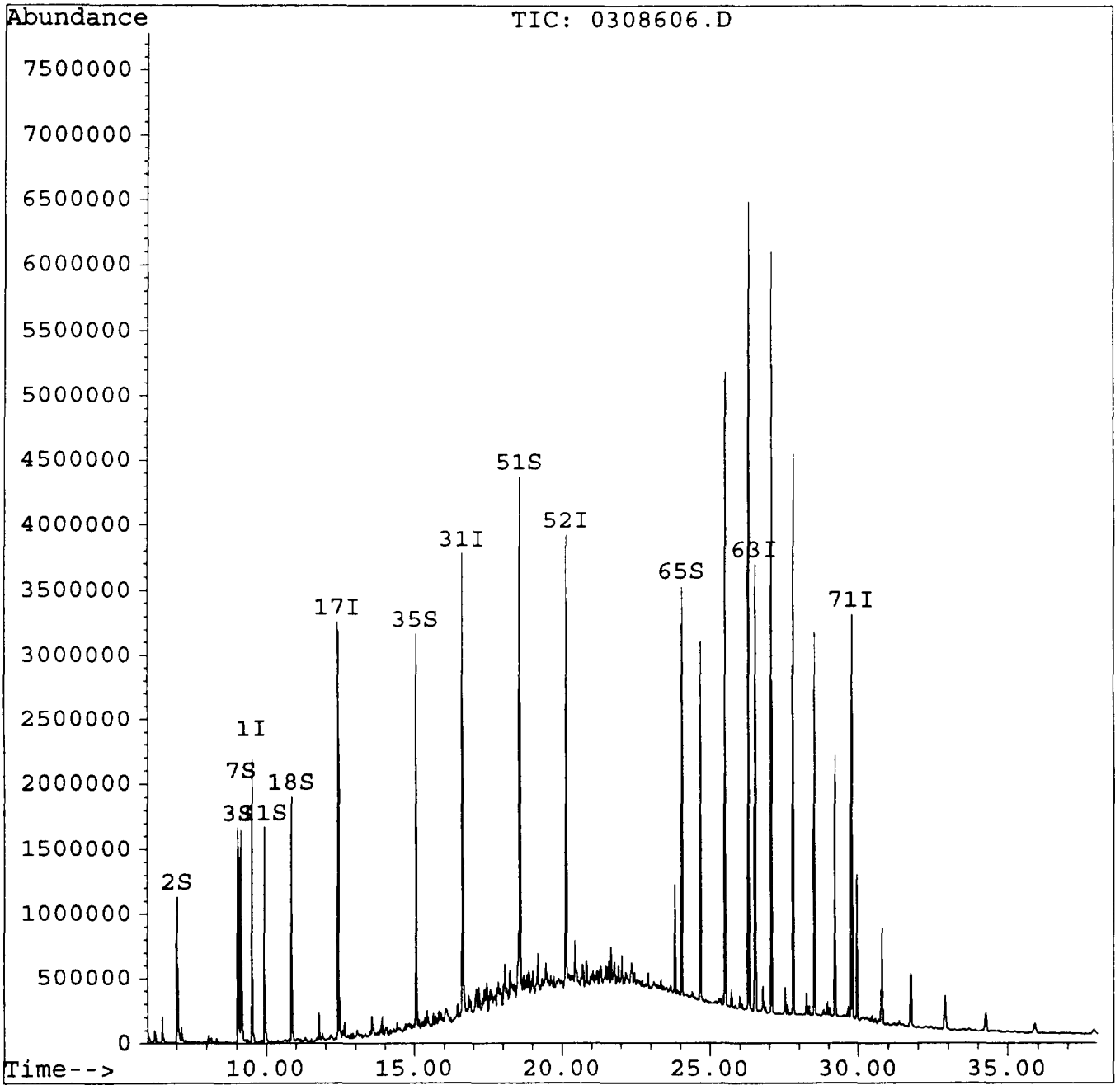
(#) = qualifier out of range (m) = manual integration

Quantitation Report 2 2 0522

Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15
Quant Time: Mar 8 14:42 1995

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Single Level Calibration



Library Search Compound Report

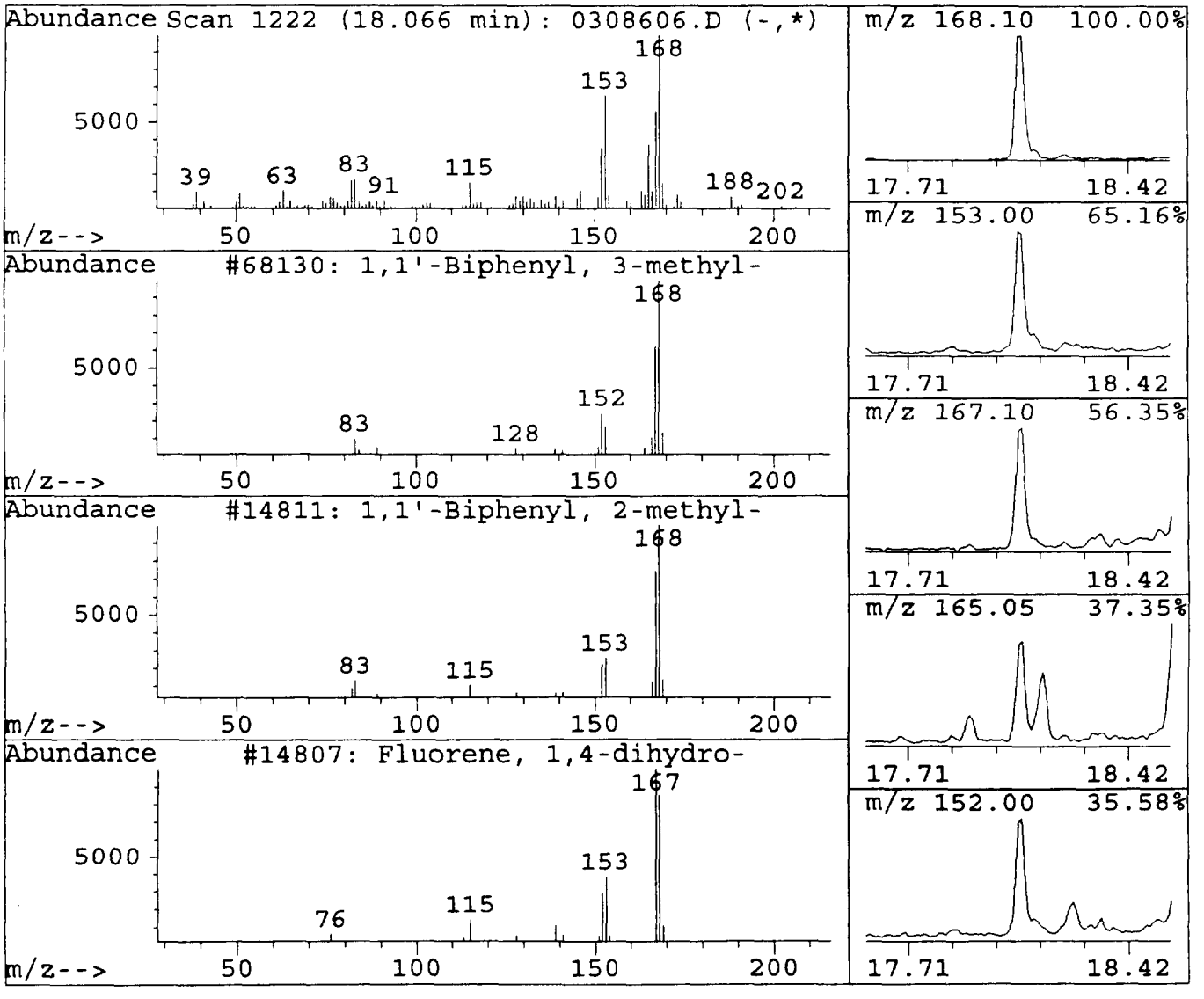
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.07	5.99 3	1233361	Acenaphthene-d10	16.64

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,1'-Biphenyl, 3-methyl-	68130	000643-93-6	95
2	1,1'-Biphenyl, 2-methyl-	14811	000643-58-3	70
3	Fluorene, 1,4-dihydro-	14807	041593-21-9	60
4	Benzene, [1-(2,4-cyclopentadien-1-y	14809	002320-32-3	53
5	Naphthalene, 1-(2-propenyl)-	14804	002489-86-3	52



Library Search Compound Report

2 2 0524

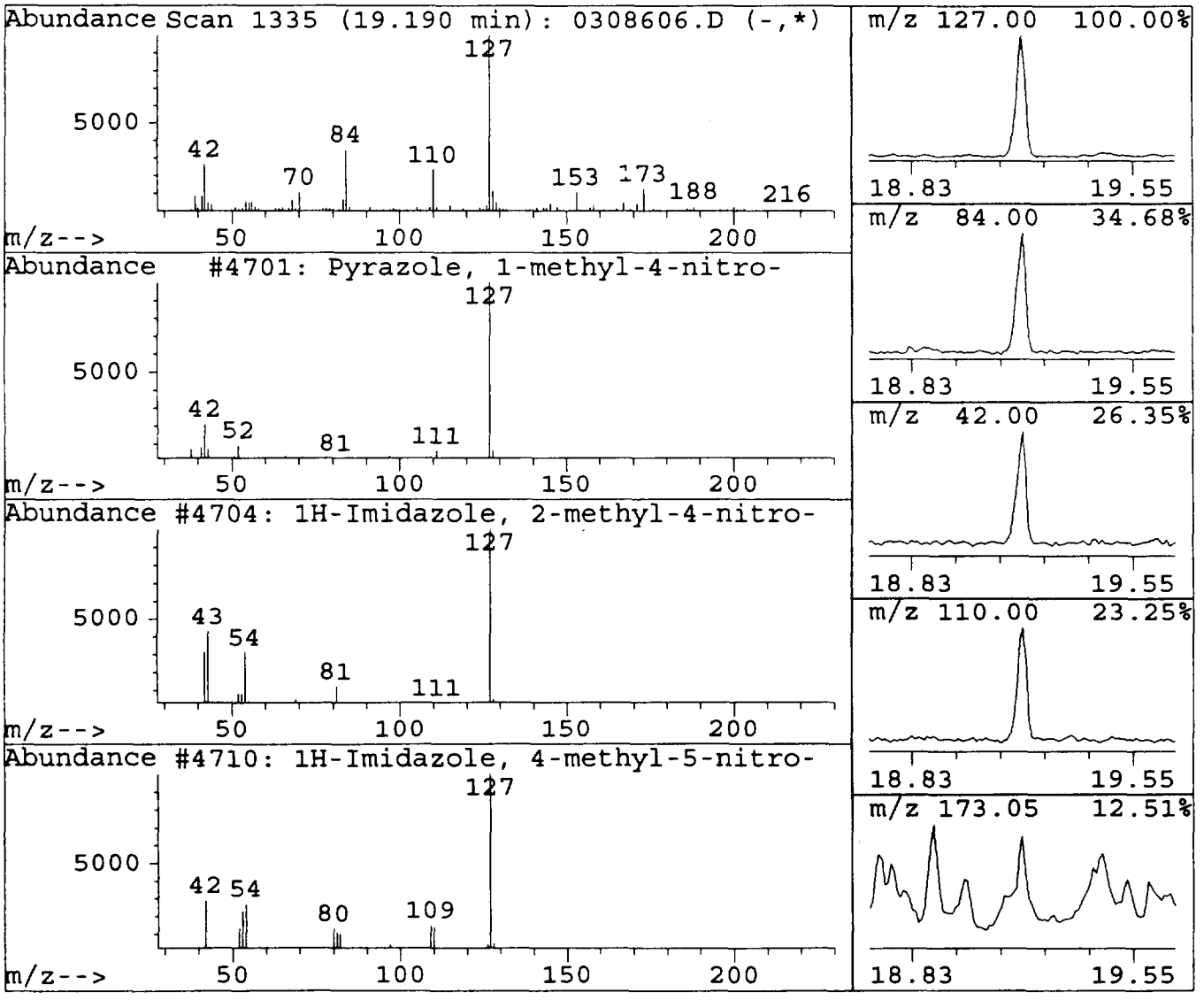
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
19.19	5.33	1025184	Phenanthrene-d10	20.15

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pyrazole, 1-methyl-4-nitro-	4701	003994-50-1	47
2	1H-Imidazole, 2-methyl-4-nitro-	4704	000696-23-1	43
3	1H-Imidazole, 4-methyl-5-nitro-	4710	014003-66-8	28
4	2,5-Pyrrolidinedione, 1-ethyl-	4730	002314-78-5	25
5	2,4-Imidazolidinedione, 1,5,5-trime	7822	006851-81-6	23



Library Search Compound Report

2 2 0525

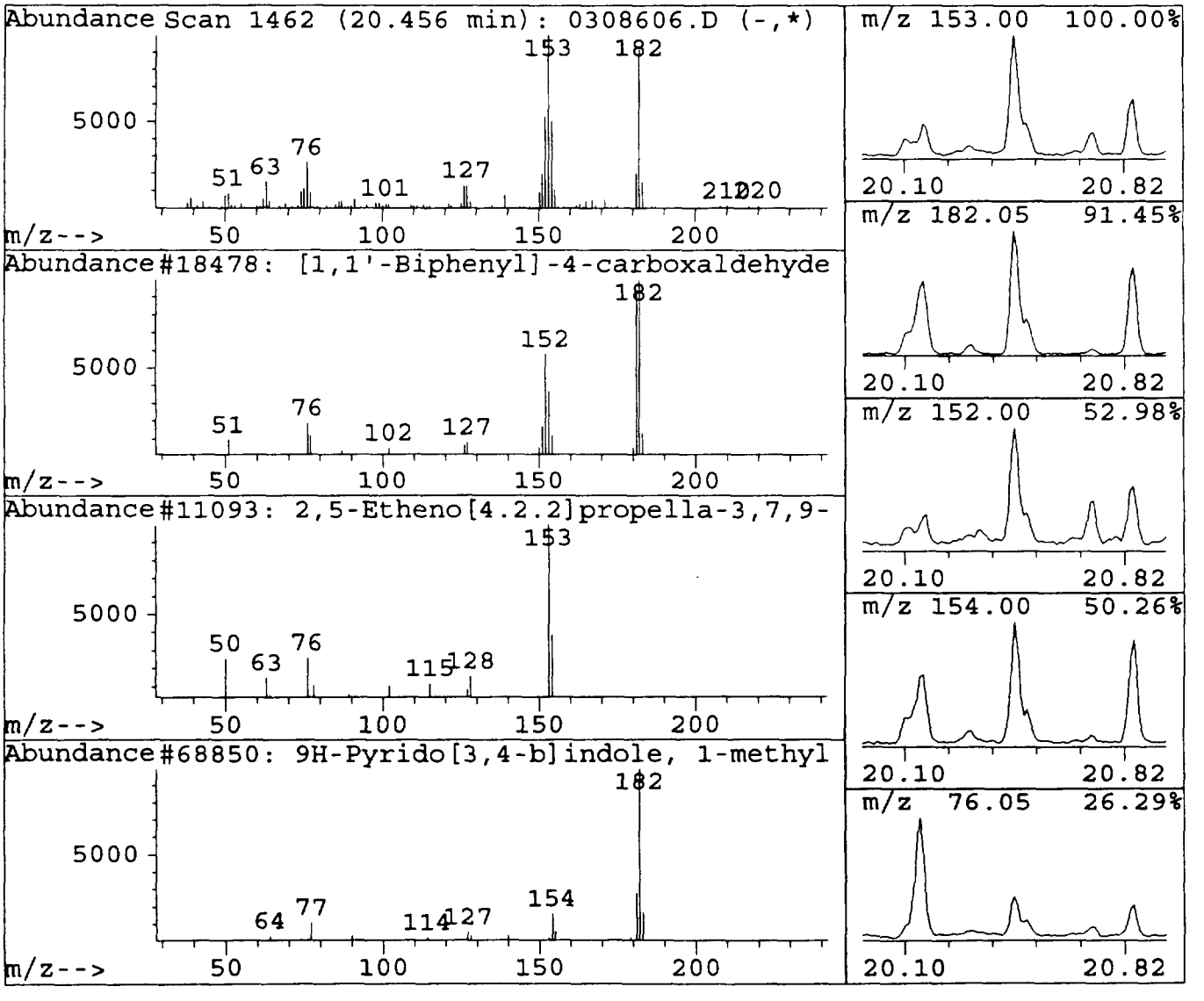
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS\5

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
20.46	4.28 2	826366	Phenanthrene-d10	20.15

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	18478	003218-36-8	53
2	2,5-Etheno[4.2.2]propella-3,7,9-tri	11093	088090-38-4	35
3	9H-Pyrido[3,4-b]indole, 1-methyl-	68850	000486-84-0	30
4	Acenaphthene	67200	000083-32-9	30
5	1,2-Acenaphthylenedione	68846	000082-86-0	30



Library Search Compound Report

2 2 0526

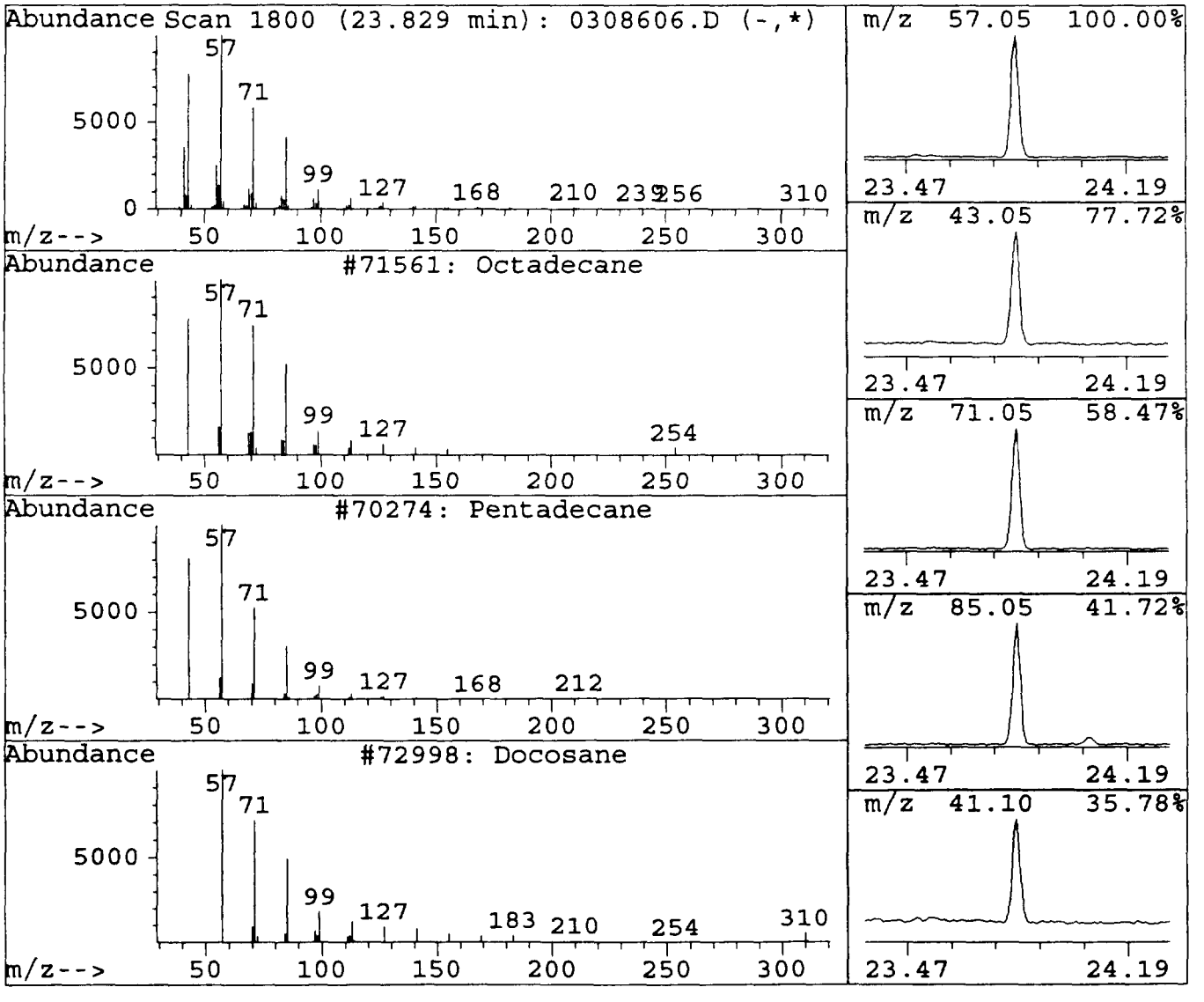
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
23.83	7.86 4	1540515	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecane	71561	000593-45-3	97
2	Pentadecane	70274	000629-62-9	96
3	Docosane	72998	000629-97-0	94
4	Tridecane, 1-iodo-	44187	035599-77-0	93
5	Heptadecane	71191	000629-78-7	91



Library Search Compound Report

2 2 0527

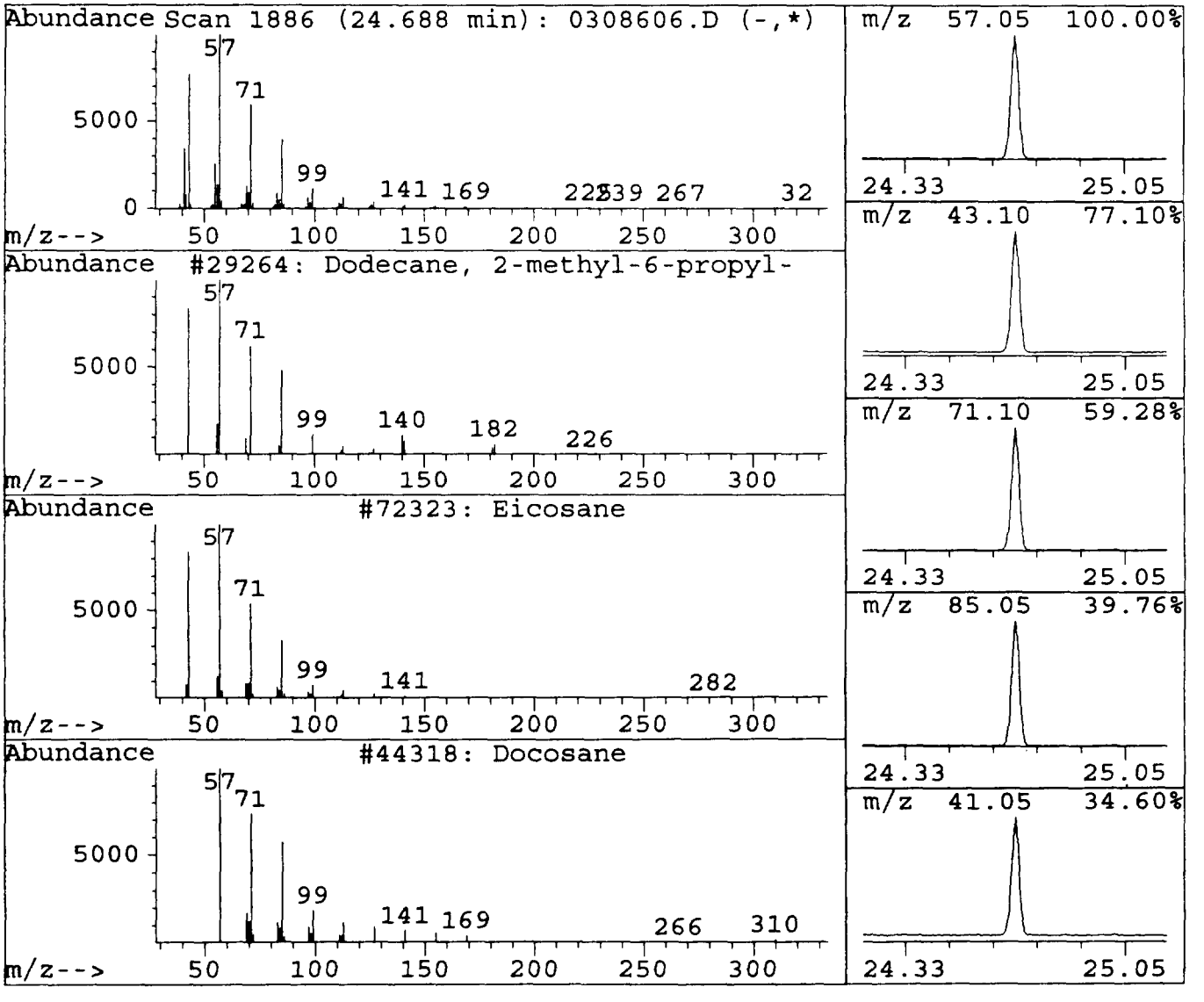
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
24.69	26.08 13	5113217	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	29264	055045-08-4	93
2	Eicosane	72323	000112-95-8	91
3	Docosane	44318	000629-97-0	91
4	Heptadecane	71191	000629-78-7	91
5	Nonadecane	71948	000629-92-5	90



Library Search Compound Report

2 2 0523

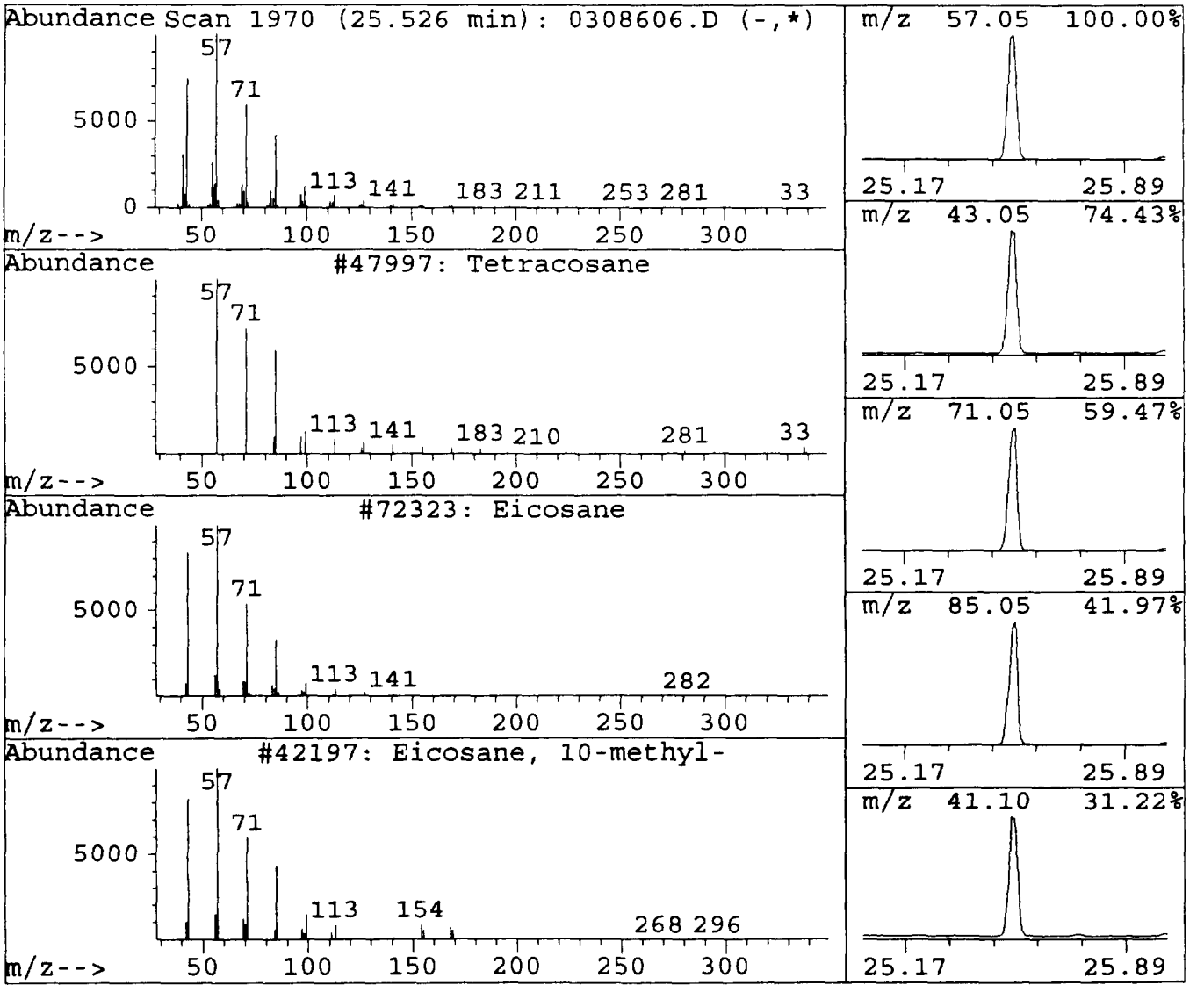
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS\5

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
25.53	48.73 24	9554773	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	47997	000646-31-1	95
2	Eicosane	72323	000112-95-8	91
3	Eicosane, 10-methyl-	42197	054833-23-7	91
4	Docosane	44318	000629-97-0	91
5	Octadecane	71560	000593-45-3	91



Library Search Compound Report

2 2 0522

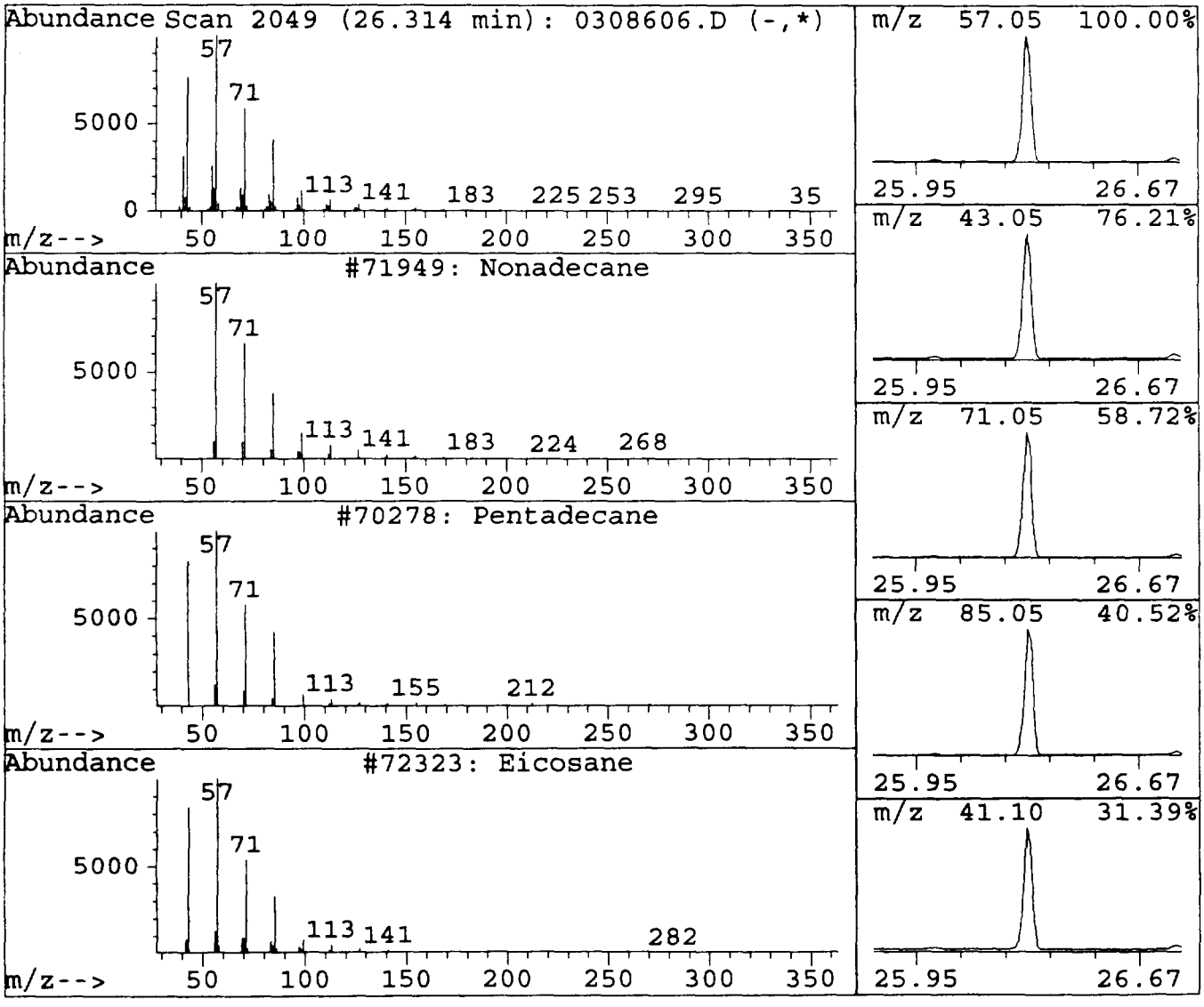
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
26.31	60.75 30	11911534	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonadecane	71949	000629-92-5	97
2	Pentadecane	70278	000629-62-9	93
3	Eicosane	72323	000112-95-8	91
4	Tricosane	73318	000638-67-5	91
5	Hexatriacontane	74636	000630-06-8	91



Library Search Compound Report

2 2 0530

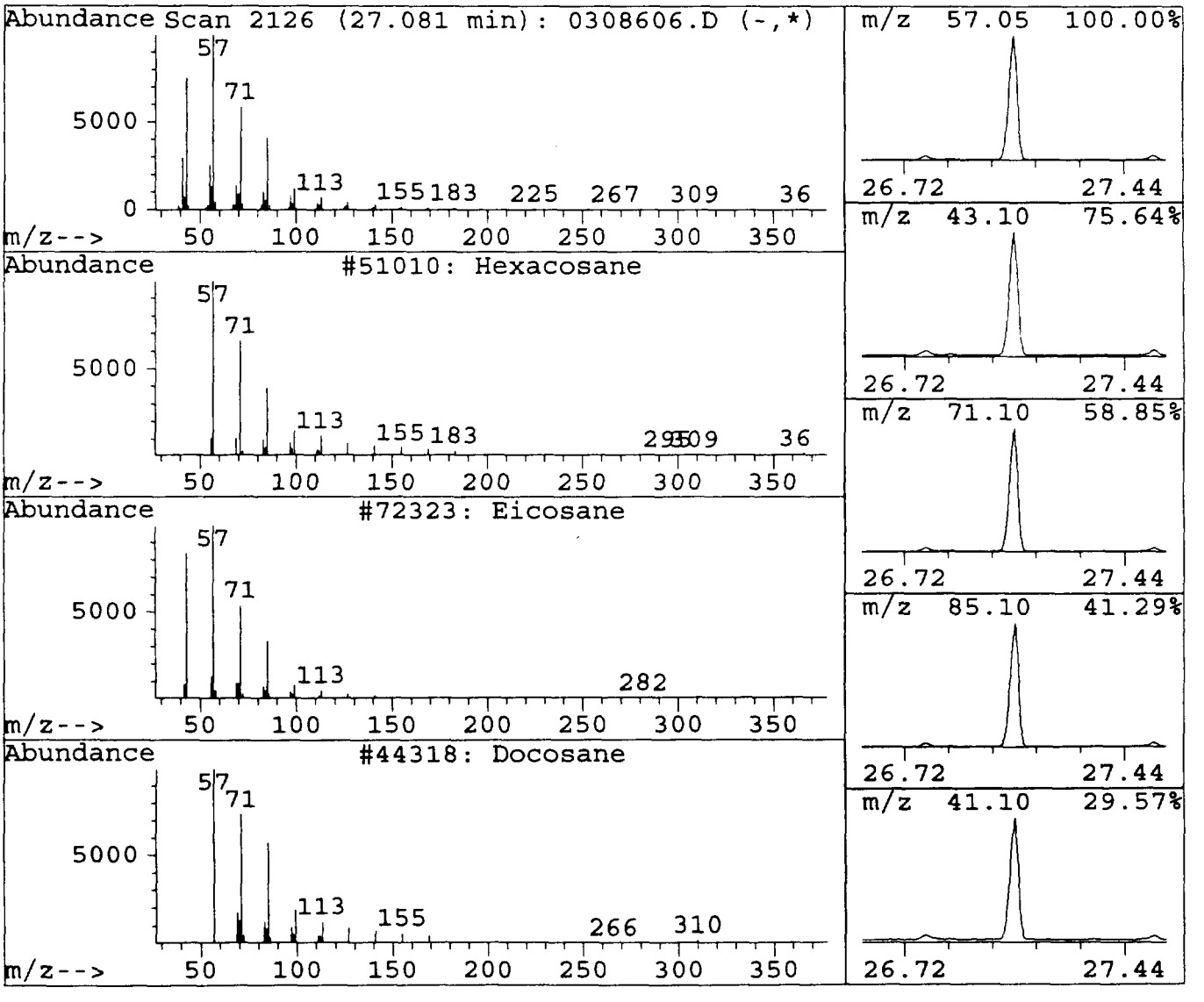
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
27.08	56.87 28	11150816	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexacosane	51010	000630-01-3	95
2	Eicosane	72323	000112-95-8	91
3	Docosane	44318	000629-97-0	91
4	Nonadecane	37469	000629-92-5	90
5	Tetracosane	73543	000646-31-1	90



Library Search Compound Report

2 2 0531

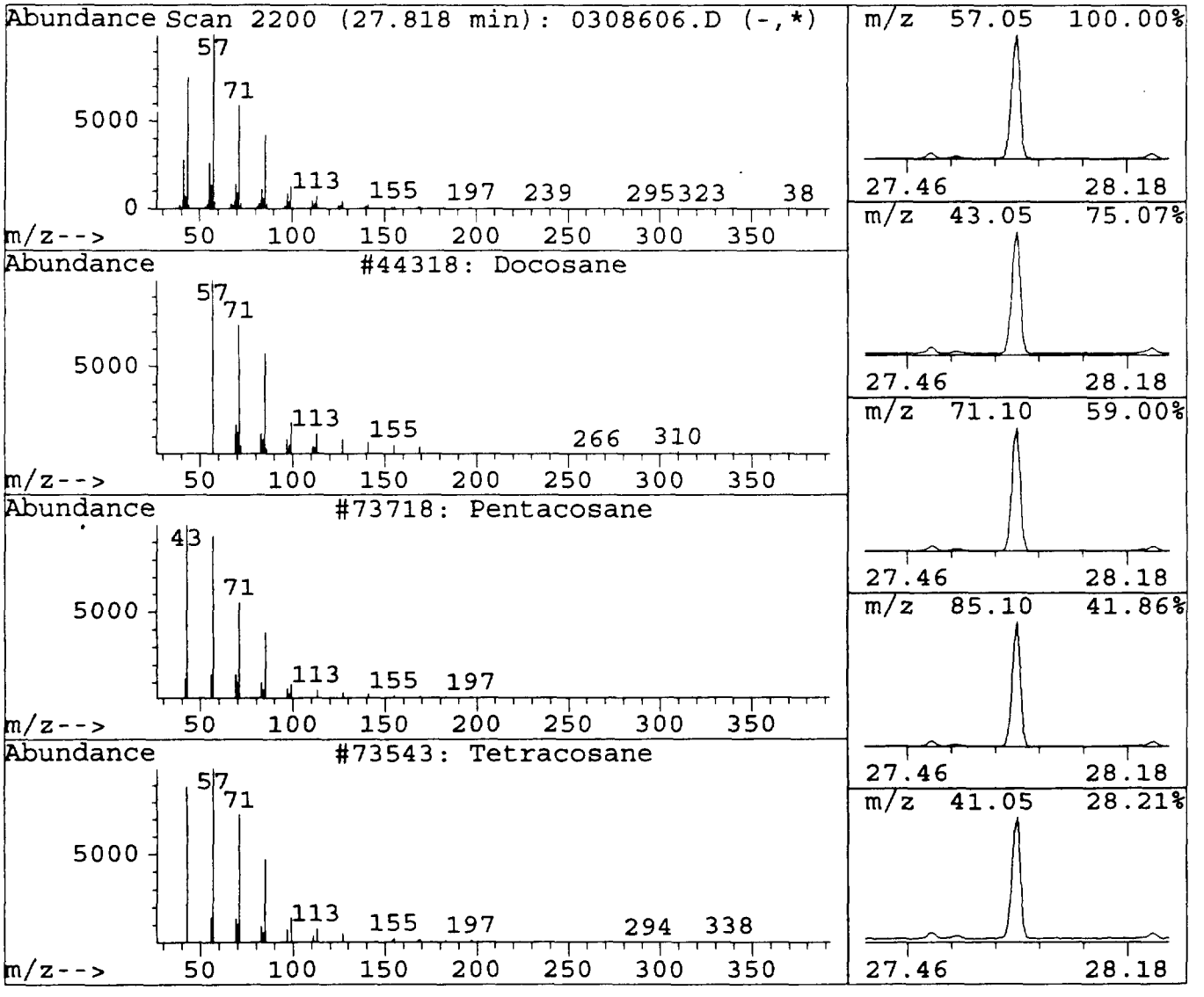
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
27.82	41.61	8158420	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	44318	000629-97-0	91
2	Pentacosane	73718	000629-99-2	91
3	Tetracosane	73543	000646-31-1	90
4	Heneicosane	42201	000629-94-7	90
5	Nonadecane	71949	000629-92-5	87



Library Search Compound Report

2 2 0532

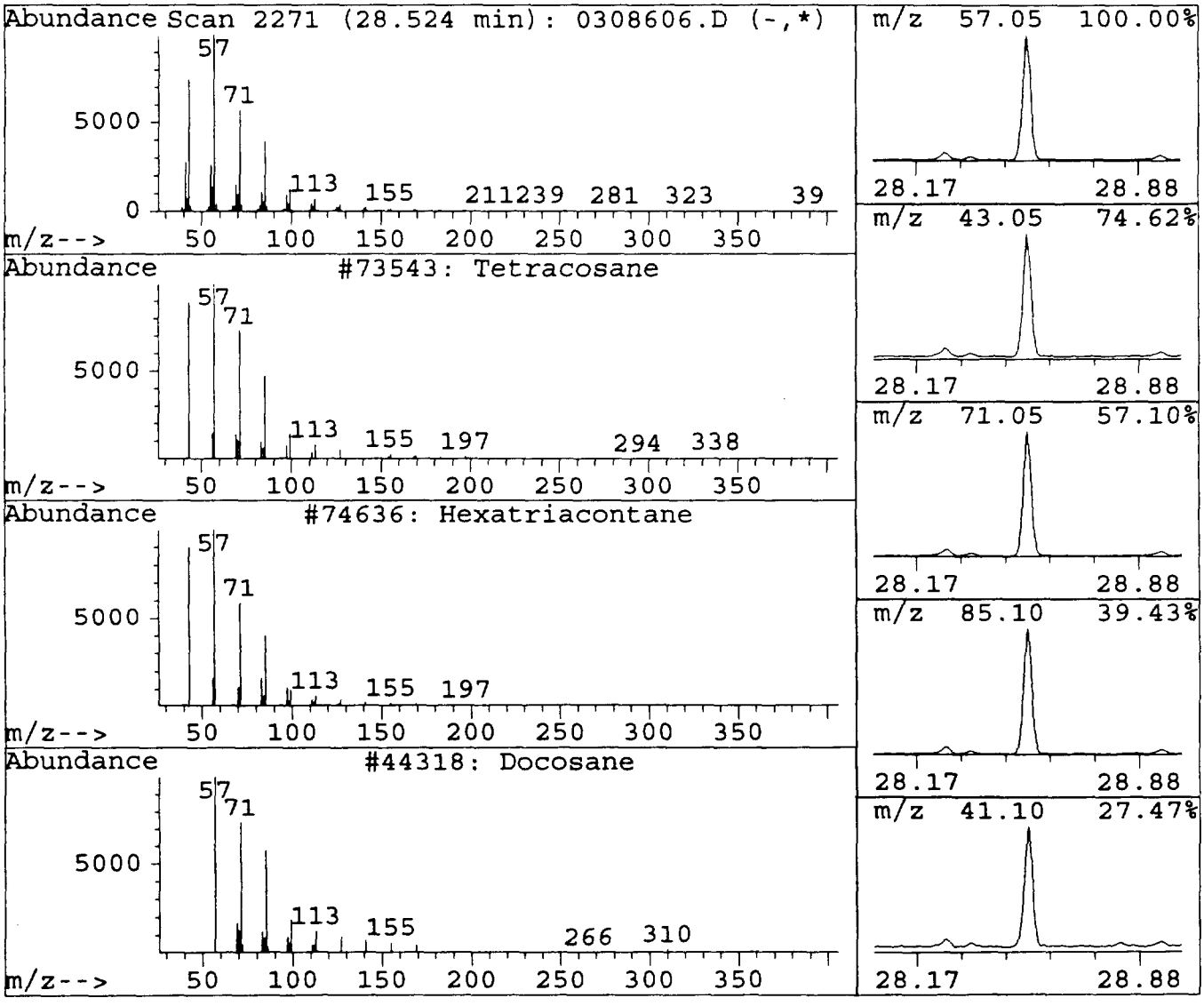
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc		Area	Relative to ISTD	R.T.
28.52	26.93	13	5492023	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetracosane	73543	000646-31-1	91
2	Hexatriacontane	74636	000630-06-8	91
3	Docosane	44318	000629-97-0	91
4	Eicosane	72323	000112-95-8	90
5	Dotriacontane	74490	000544-85-4	90



Library Search Compound Report

2 2 0533

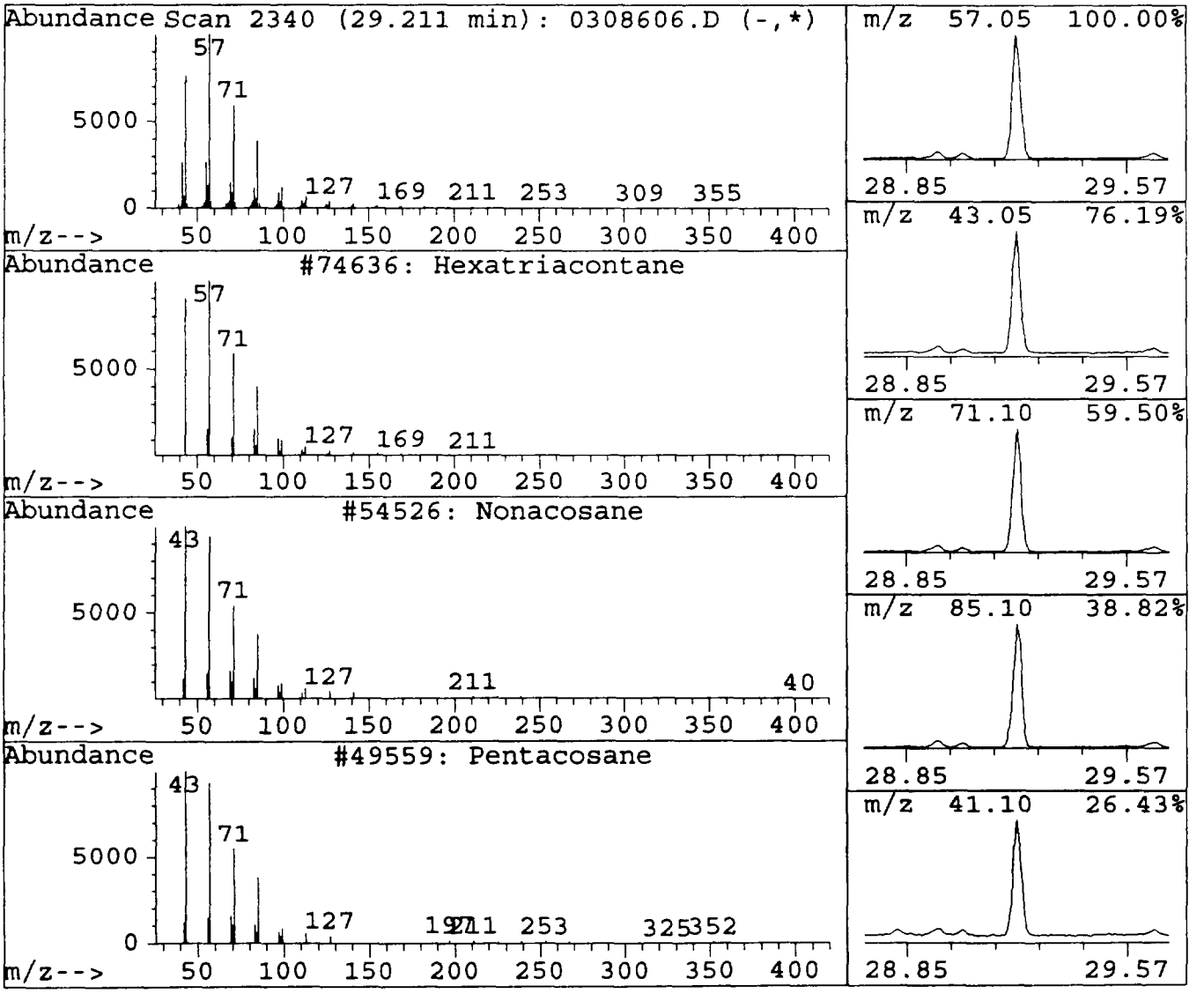
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
29.21	18.629	3798589	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexatriacontane	74636	000630-06-8	91
2	Nonacosane	54526	000630-03-5	91
3	Pentacosane	49559	000629-99-2	91
4	Docosane	44318	000629-97-0	91
5	Eicosane	72323	000112-95-8	90



Library Search Compound Report

2 2 0534

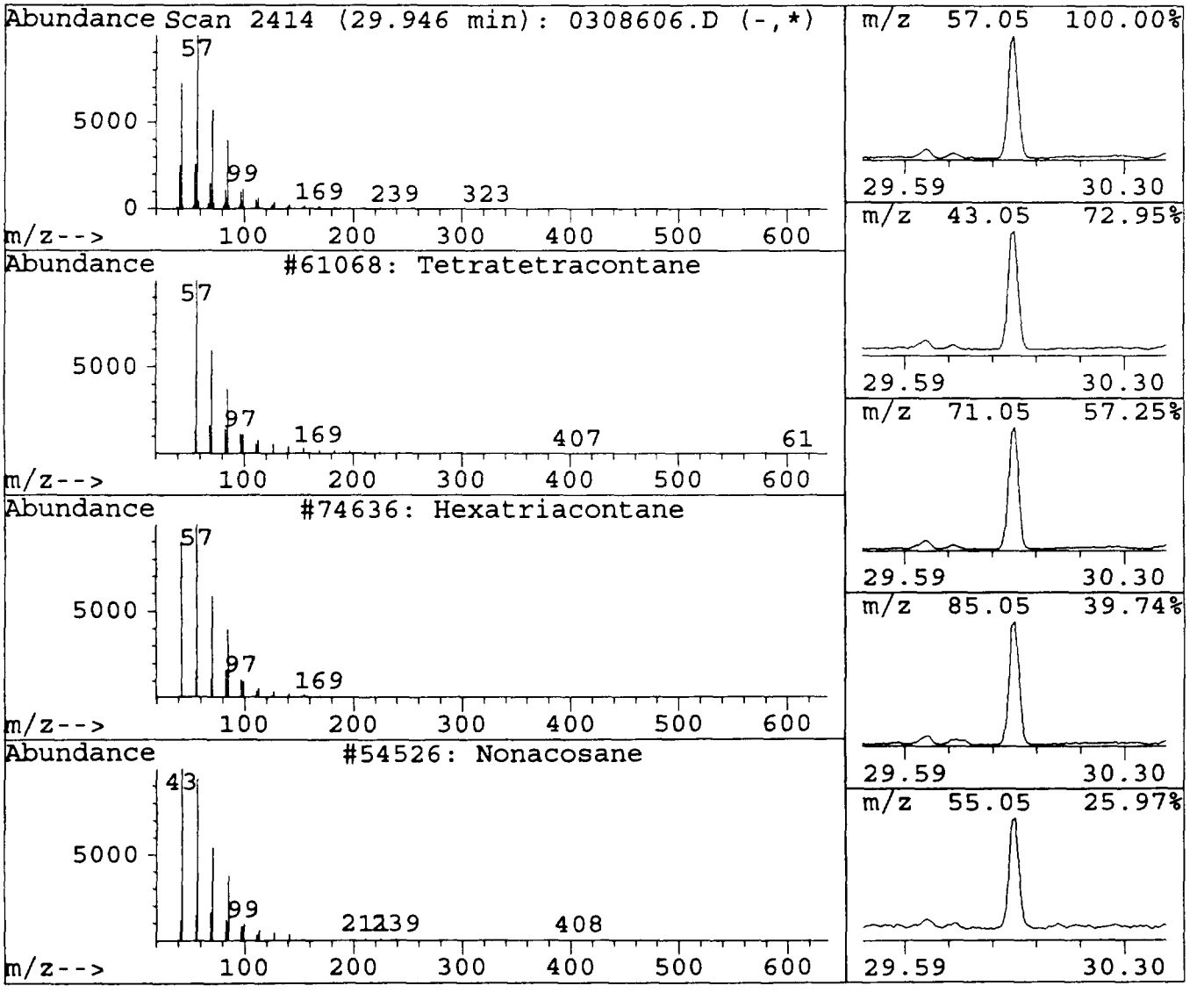
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
29.95	12.52	2553131	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetratetracontane	61068	007098-22-8	91
2	Hexatriacontane	74636	000630-06-8	91
3	Nonacosane	54526	000630-03-5	91
4	Docosane	44318	000629-97-0	90
5	Tetratriacontane	58265	014167-59-0	90



Library Search Compound Report

2 2 0535

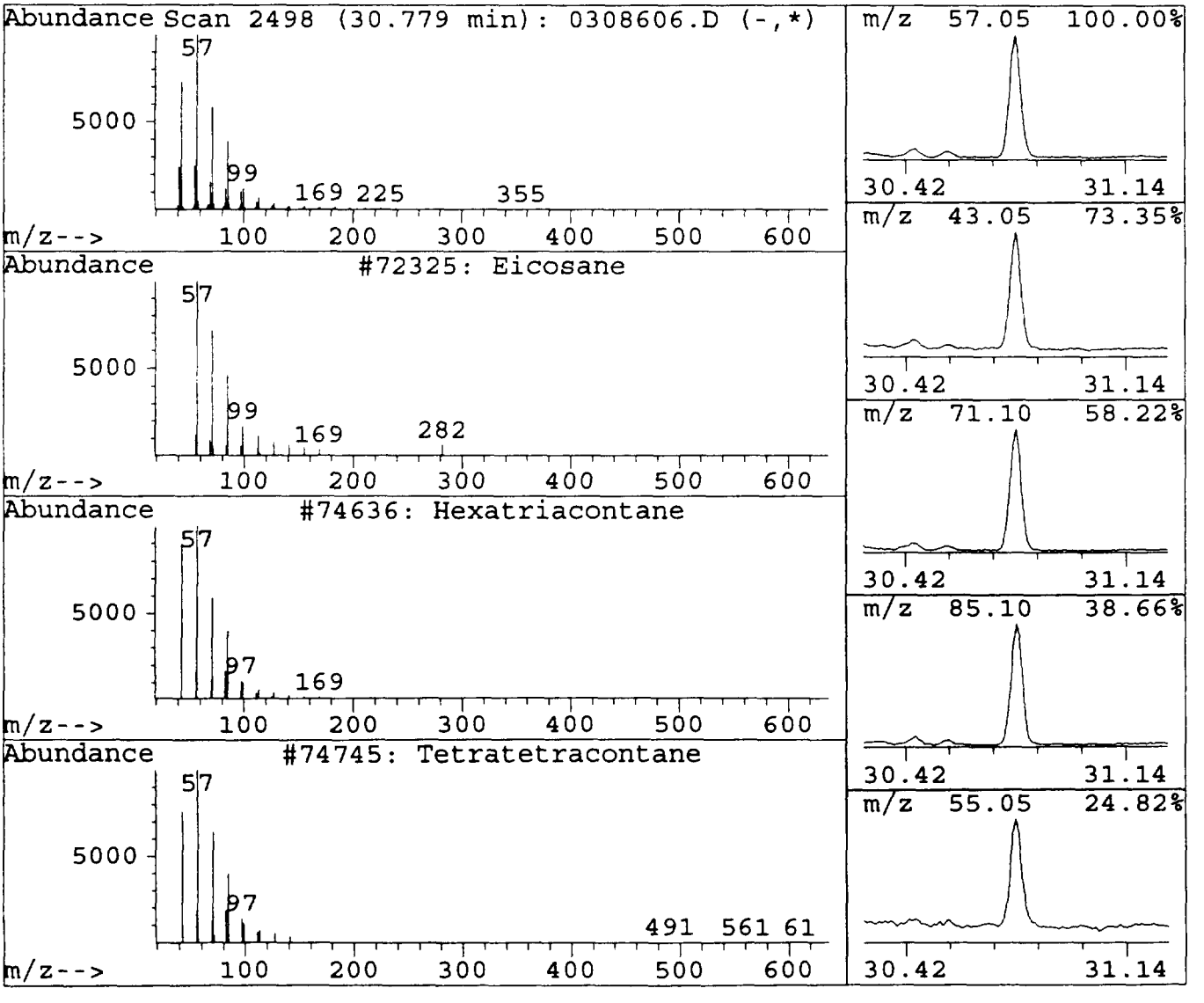
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS5

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
30.78	9.60 5	1956920	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	72325	000112-95-8	93
2	Hexatriacontane	74636	000630-06-8	91
3	Tetratetracontane	74745	007098-22-8	91
4	Heneicosane	42201	000629-94-7	90
5	Tetratriacontane	58265	014167-59-0	90



Library Search Compound Report

2 2 0536

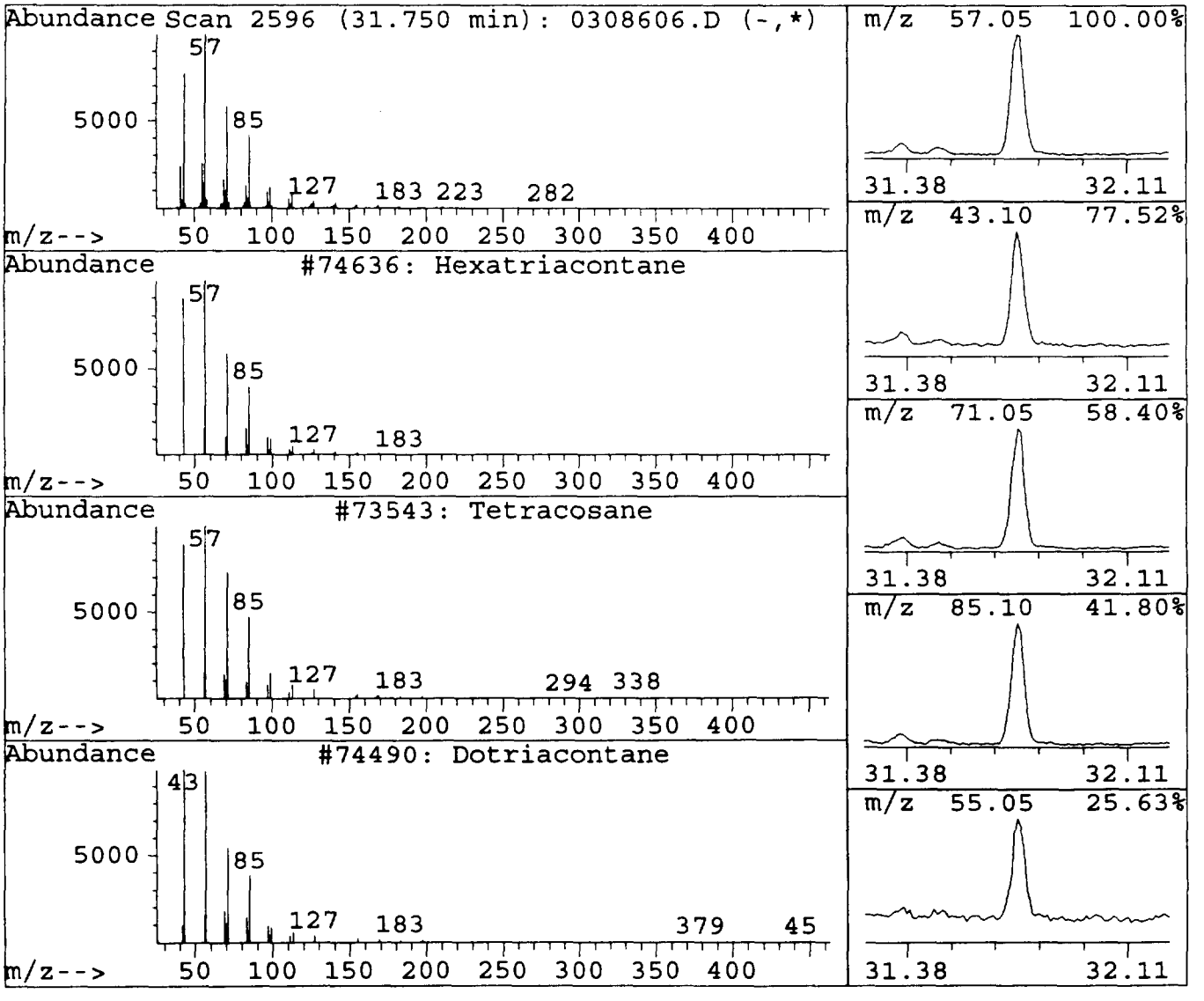
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS 15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
31.75	6.61 3	1347374	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexatriacontane	74636	000630-06-8	95
2	Tetracosane	73543	000646-31-1	91
3	Dotriacontane	74490	000544-85-4	91
4	Triacontane	55461	000638-68-6	91
5	Tetratetracontane	74745	007098-22-8	91



Library Search Compound Report

2 2 0537

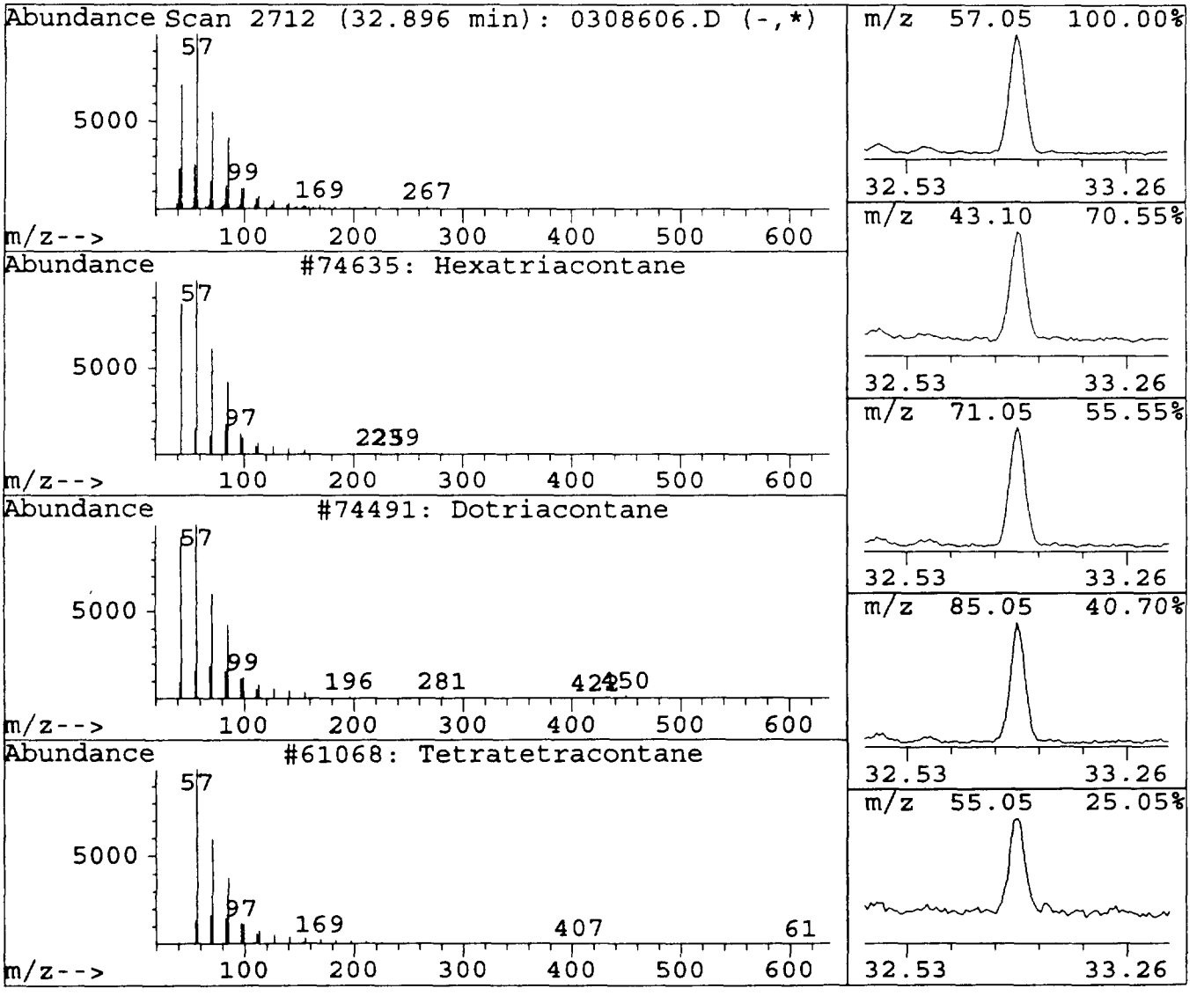
Data File : C:\HPCHEM\1\DATA\9503086.B\0308606.D
Acq On : 8 Mar 95 2:04 pm
Sample : 0309803 IEA MSD6
Misc : CS15

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
32.90	4.35 2	887445	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexatriacontane	74635	000630-06-8	91
2	Dotriacontane	74491	000544-85-4	91
3	Tetratetracontane	61068	007098-22-8	90
4	Octadecane	71561	000593-45-3	87
5	Heptadecane, 9-octyl-	49558	007225-64-1	87



An Aquarion Company

TENTATIVELY IDENTIFIED COMPOUNDS

IEA Project Number: 2041-001(0)
IEA Sample Number: 9503098 03
Sample Identification: CS15
Applicable Fraction: Volatile _____ Base/Neutral ✓ Acid ✓ Other _____

2 2 0538

Tentatively Identified Compounds (TIC's) are compounds which are not in the specific target compound list but may be present in the sample. An attempt to identify such compounds is made through comparison of the mass spectra of these unknown compounds in the sample with approximately 50,000 spectra contained in the computer's mass spectral library. Analytical standards are not utilized in this procedure and therefore, compounds identified in this manner are referred to as "Tentative" identifications.

IEA personnel identify and classify these compounds using identification guidelines provided by the USEPA under the Contract Laboratory Program (CLP). A gross estimation of concentration is accomplished by comparing the response of the unknown compound versus the nearest internal standard in the total ion chromatogram. As per EPA CLP guidance, TIC's are identified and quantitated only if the response is equal to or greater than 10% of the nearest internal standard. Compounds identified as "unknown" are not uncommon utilizing these guidelines since the requirements for even a tentative identification are quite stringent.

	TIC Compound Name		Estimated Concentration (ug/L) (ug/kg)
	unknown	18.07	3
	unknown	19.19	3
3.	unknown	20.46	2
4.	unknown alkane	23.83	4
5.	unknown alkane	24.69	13
6.	unknown alkane	25.53	24
7.	unknown alkane	26.31	30
8.	unknown alkane	27.08	28
9.	unknown alkane	27.82	21
10.	unknown alkane	28.52	13
11.	unknown alkane	29.21	9
12.	unknown alkane	29.95	6
13.	unknown alkane	30.78	5
14.	unknown alkane	31.75	3
15.	unknown alkane	32.90	2
16.			
17.			
18.			
19.			
20.			

Comments:
21
22
23

FORM TIC Rev. 120491

24
25

1LCB 2 2 0539

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS15A

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309804 Date Received: 03/04/95

Lab File ID: 0308607.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC 2 2 0540

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS15A

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309804 Date Received: 03/04/95

Lab File ID: 0308607.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	3	J
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

1LCF

CLIENT SAMPLE NO.

CS15A

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: 950309804 Date Received: 03/04/95

Lab File ID: 0308607.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.	Unknown Acid/Ester	17.850	3	J
2.	Unknown	18.070	3	J
3.	Unknown	19.200	2	J
4.	Unknown	20.460	2	J
5.	Unknown Alkane	23.830	3	J
6.	Unknown Alkane	24.690	10	J
7.	Unknown Alkane	25.520	19	J
8.	Unknown Alkane	26.310	24	J
9.	Unknown Alkane	27.080	22	J
10.	Unknown Alkane	27.810	16	J
11.	Unknown Alkane	28.530	10	J
12.	Unknown Alkane	29.210	7	J
13.	Unknown Alkane	29.940	5	J
14.	Unknown Alkane	30.780	4	J
15.	Unknown Alkane	31.760	3	J
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report 2 2 0542

Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :
Quant Time: Mar 8 15:29 1995

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Continuing Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.54	152	668719	40.00	0.02
17) Naphthalene-d8	12.43	136	3060095	40.00	0.00
31) Acenaphthene-d10	16.63	164	1712374	40.00	0.00
52) Phenanthrene-d10	20.15	188	2444148	40.00	0.00
63) Chrysene-d12	26.54	240	2385329	40.00	0.00
71) Perylene-d12	29.79	264	2589333	40.00	0.01

System Monitoring Compounds					%Recovery
2) 2-Fluorophenol	7.03	112	803562	31.16	77.911%
3) Phenol-d5	9.06	99	1288461	34.03	85.064%
7) 2-Chlorophenol-d4	9.17	132	946582	33.20	82.993%
11) 1,2-Dichlorobenzene-d4	9.95	152	504549	34.67	86.682%
18) Nitrobenzene-d5	10.86	82	1134565	34.23	85.579%
35) 2-Fluorobiphenyl	15.07	172	1764450	34.97	87.436%
51) 2,4,6-Tribromophenol	18.58	330	826682	109.05	90.875%
65) Terphenyl-d14	24.07	244	1997712	36.14	90.345%

Target Compounds					Qvalue
61) Di-n-butylphthalate	21.79	149	647965	5.58 35	98

CS 3/9/95

(#) = qualifier out of range (m) = manual integration

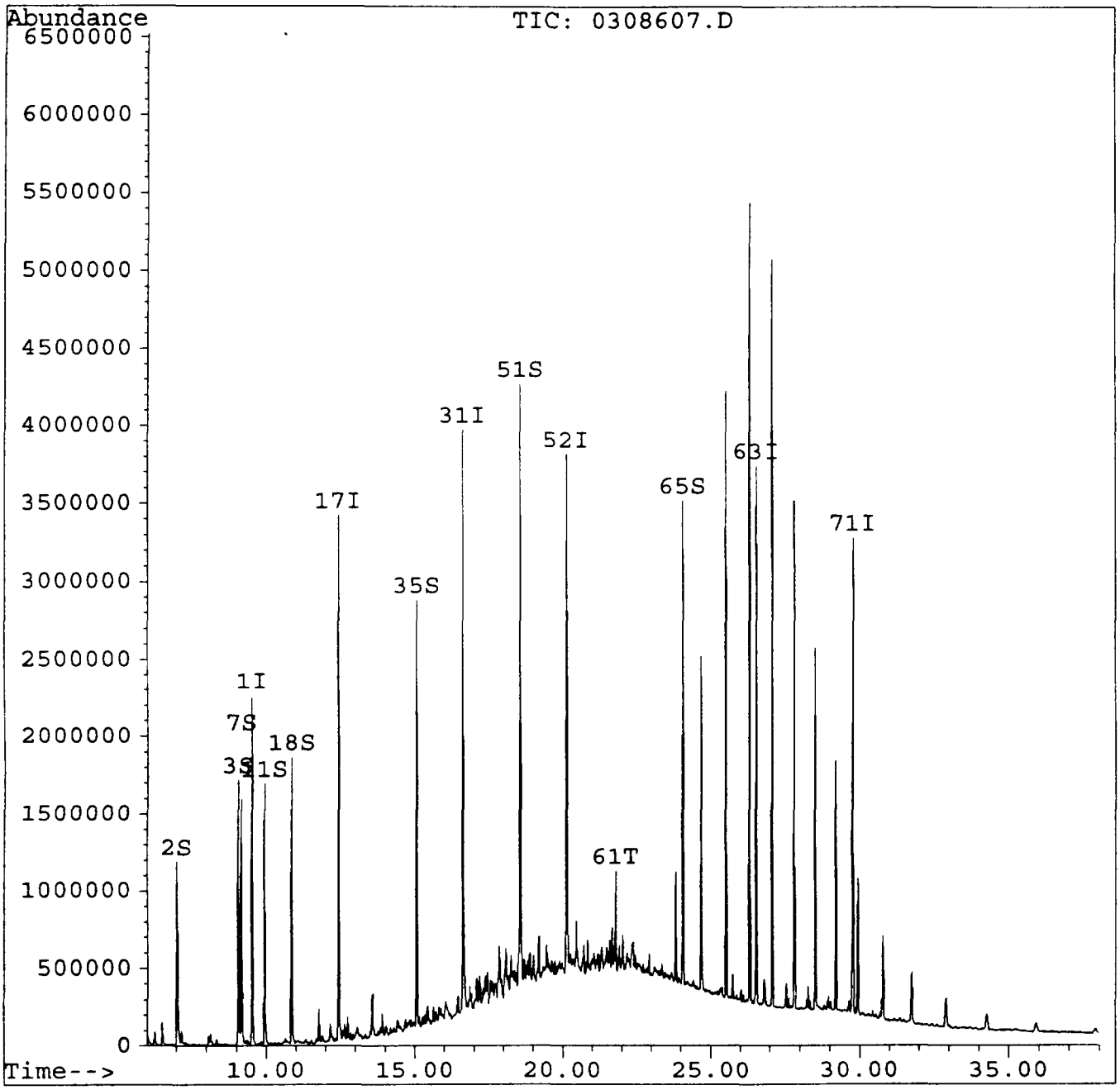
Quantitation Report

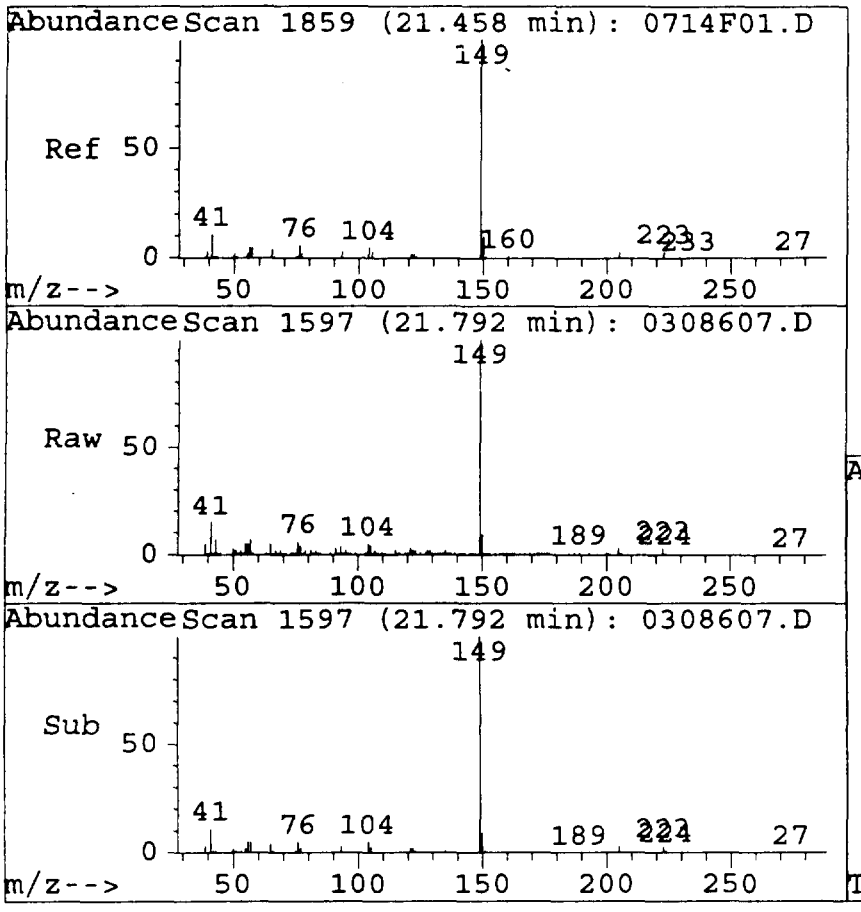
2 2 0543

Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :
Quant Time: Mar 8 15:29 1995

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Single Level Calibration



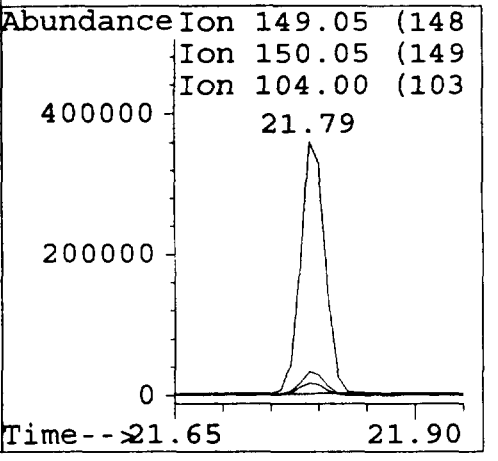


2 2 0544

#61
Di-n-butylphthalate
Concen: 5.58
RT: 21.79 min Scan# 1597
Delta R.T. 0.01 min
Lab File: 0308607.D
Acq: 8 Mar 95 2:50 pm

Tgt Ion:149.05 Resp: 647965

Ion	Ratio	Lower	Upper
149	100		
150	9.3	8.1	12.1
104	5.0	3.7	5.5
0	0.0	0.0	0.0



Library Search Compound Report

2 2 0545

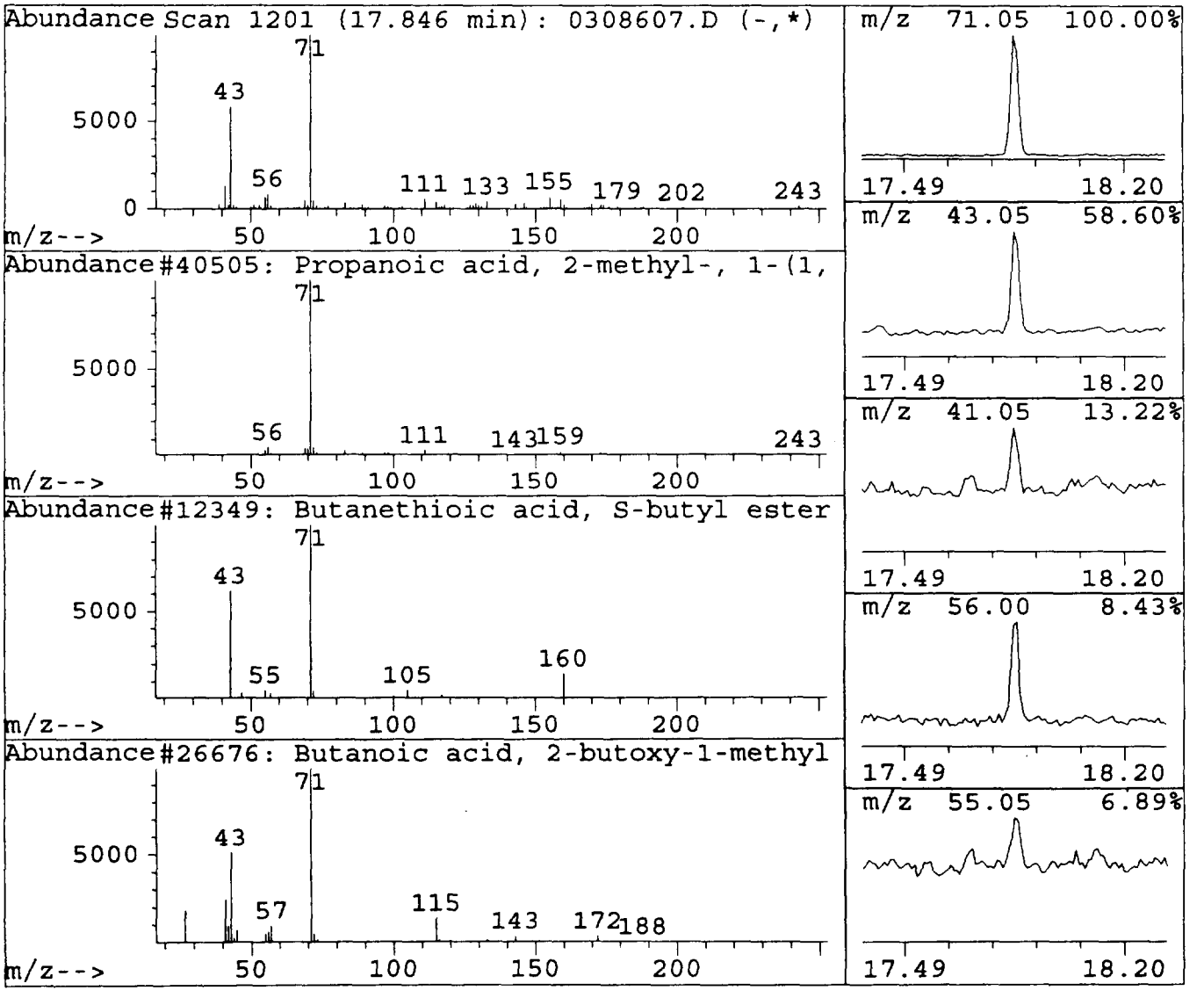
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
17.85	5.59 3	1127513	Acenaphthene-d10	16.63

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Propanoic acid, 2-methyl-, 1-(1,1-d	40505	074381-40-1	64
2	Butanethioic acid, S-butyl ester	12349	002432-52-2	53
3	Butanoic acid, 2-butoxy-1-methyl-2-	26676	007492-70-8	53
4	2-Furanmethanol, tetrahydro-, aceta	66288	000637-64-9	53
5	Propanoic acid, 2-methyl-, 2-(hydro	26742	074367-32-1	42



2 2 0546

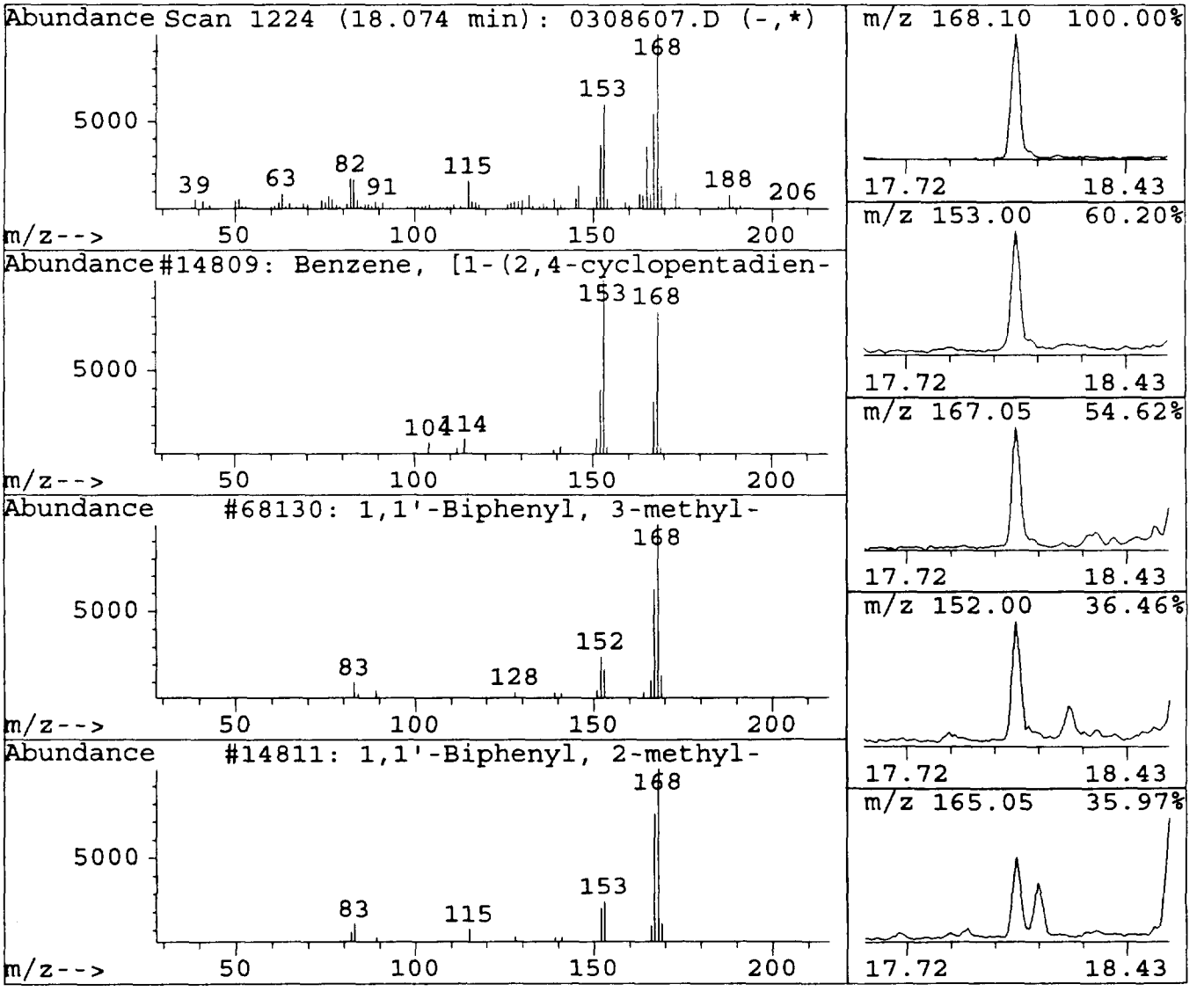
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.07	5.82 3	1173836	Acenaphthene-d10	16.63

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, [1-(2,4-cyclopentadien-1-y	14809	002320-32-3	72
2	1,1'-Biphenyl, 3-methyl-	68130	000643-93-6	60
3	1,1'-Biphenyl, 2-methyl-	14811	000643-58-3	53
4	Fluorene, 1,4-dihydro-	14807	041593-21-9	53
5	Diphenylmethane	68132	000101-81-5	49



Library Search Compound Report

2 2 0547

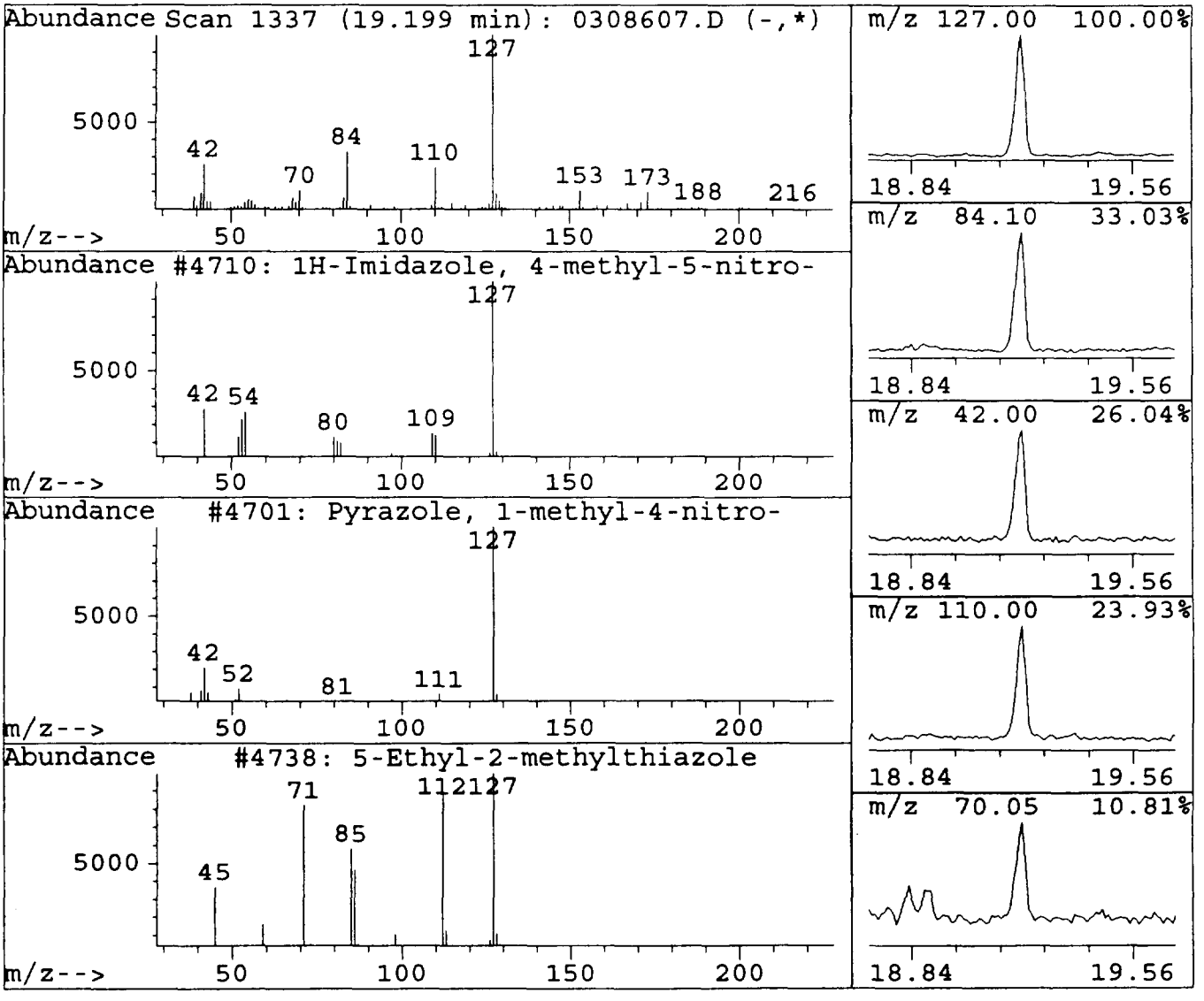
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
19.20	5.09 2	976238	Phenanthrene-d10	20.15

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Imidazole, 4-methyl-5-nitro-	4710	014003-66-8	50
2	Pyrazole, 1-methyl-4-nitro-	4701	003994-50-1	47
3	5-Ethyl-2-methylthiazole	4738	000000-00-0	32
4	1H-Imidazole, 2-methyl-4-nitro-	4704	000696-23-1	25
5	3,5-Heptanedione, 2,2,6,6-tetrameth	68973	001118-71-4	23



Library Search Compound Report

2 2 0543

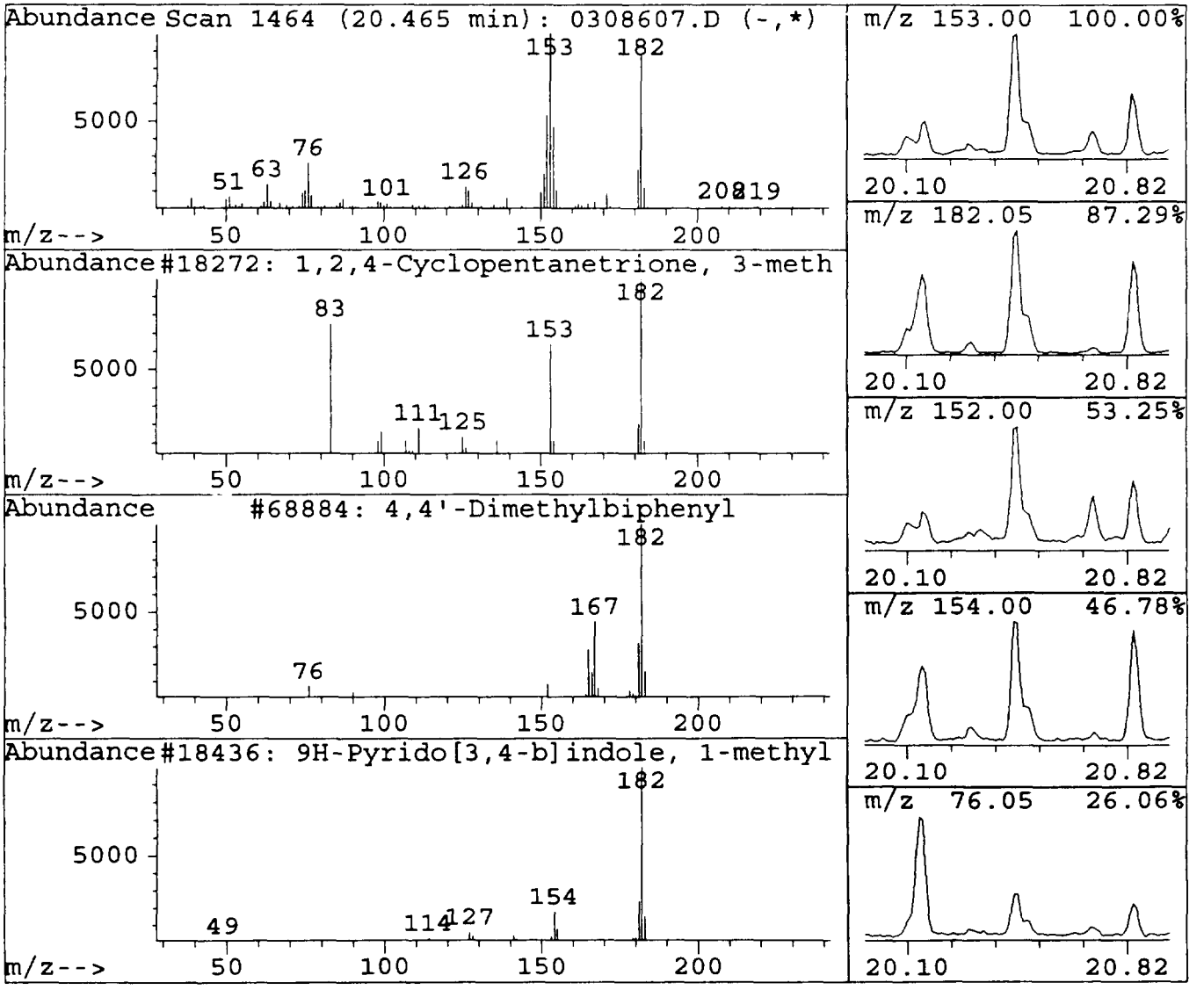
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
20.46	4.47 2	858110	Phenanthrene-d10	20.15

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,4-Cyclopentanetrione, 3-methyl-	18272	057174-14-8	47
2	4,4'-Dimethylbiphenyl	68884	000613-33-2	30
3	9H-Pyrido[3,4-b]indole, 1-methyl-	18436	000486-84-0	30
4	2,5-Etheno[4.2.2]propella-3,7,9-tri	11093	088090-38-4	27
5	Biphenylene	67016	000259-79-0	25



Library Search Compound Report

2 2 0549

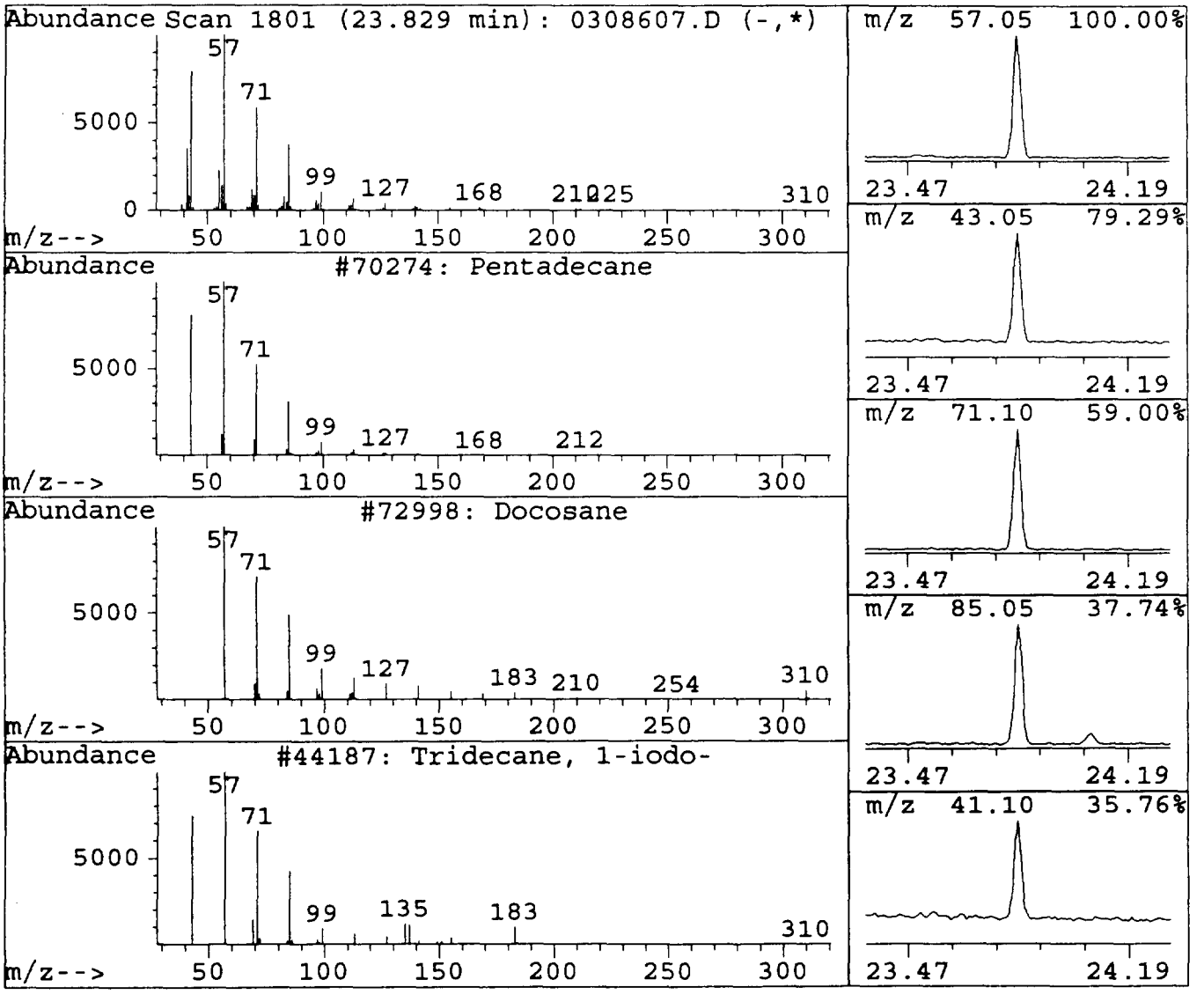
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
23.83	6.55 3	1295473	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane	70274	000629-62-9	95
2	Docosane	72998	000629-97-0	94
3	Tridecane, 1-iodo-	44187	035599-77-0	93
4	Eicosane	72323	000112-95-8	91
5	Tricosane	73318	000638-67-5	91



Library Search Compound Report

2 2 0550

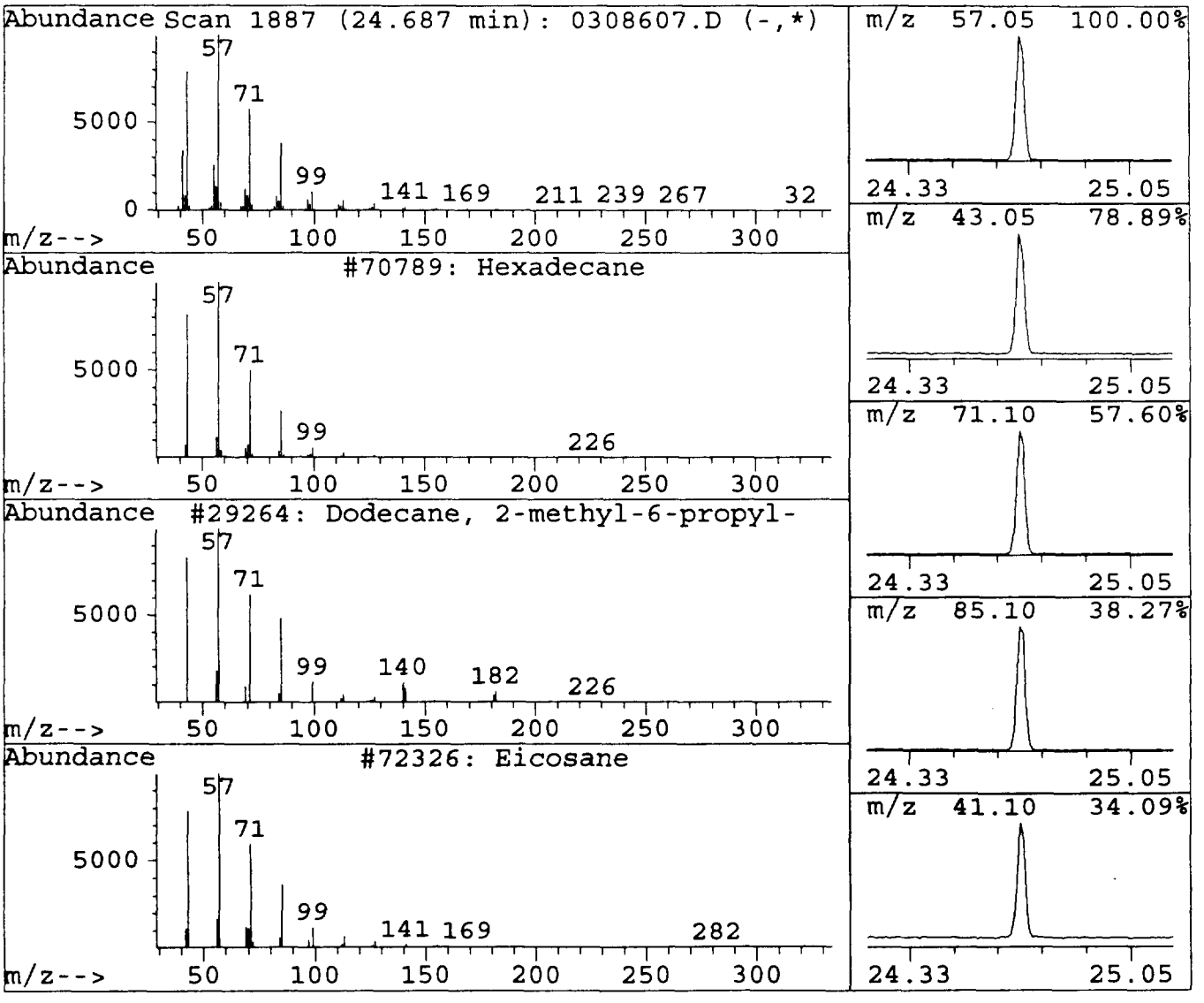
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
24.69	20.73 10	4100599	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane	70789	000544-76-3	93
2	Dodecane, 2-methyl-6-propyl-	29264	055045-08-4	93
3	Eicosane	72326	000112-95-8	91
4	Pentacosane	49559	000629-99-2	91
5	Tricosane	73318	000638-67-5	91



Library Search Compound Report

2 2 0551

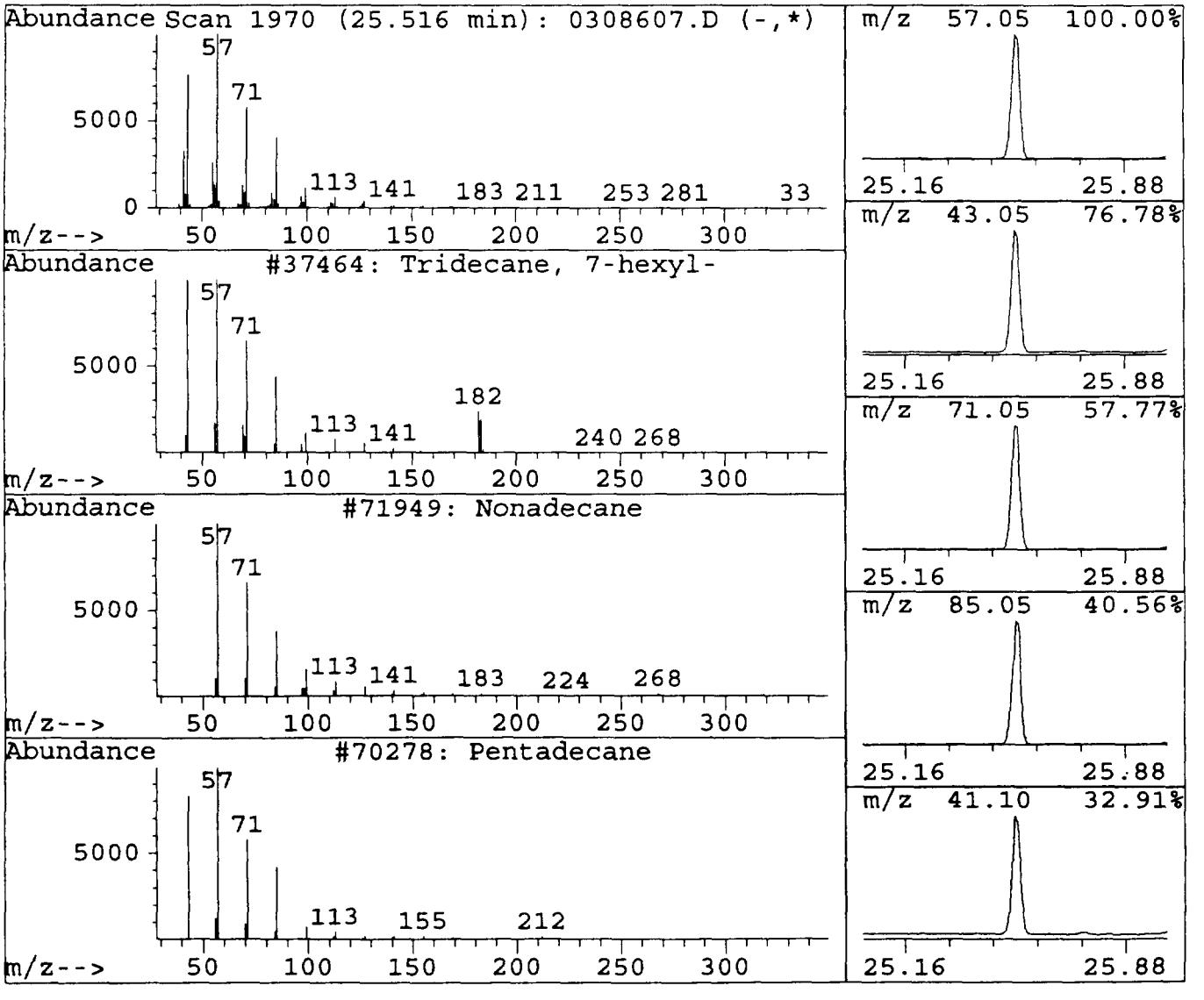
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
25.52	38.28 19	7571365	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-hexyl-	37464	007225-66-3	97
2	Nonadecane	71949	000629-92-5	96
3	Pentadecane	70278	000629-62-9	94
4	Eicosane	72323	000112-95-8	91
5	Docosane	44318	000629-97-0	91



Library Search Compound Report

2 2 0552

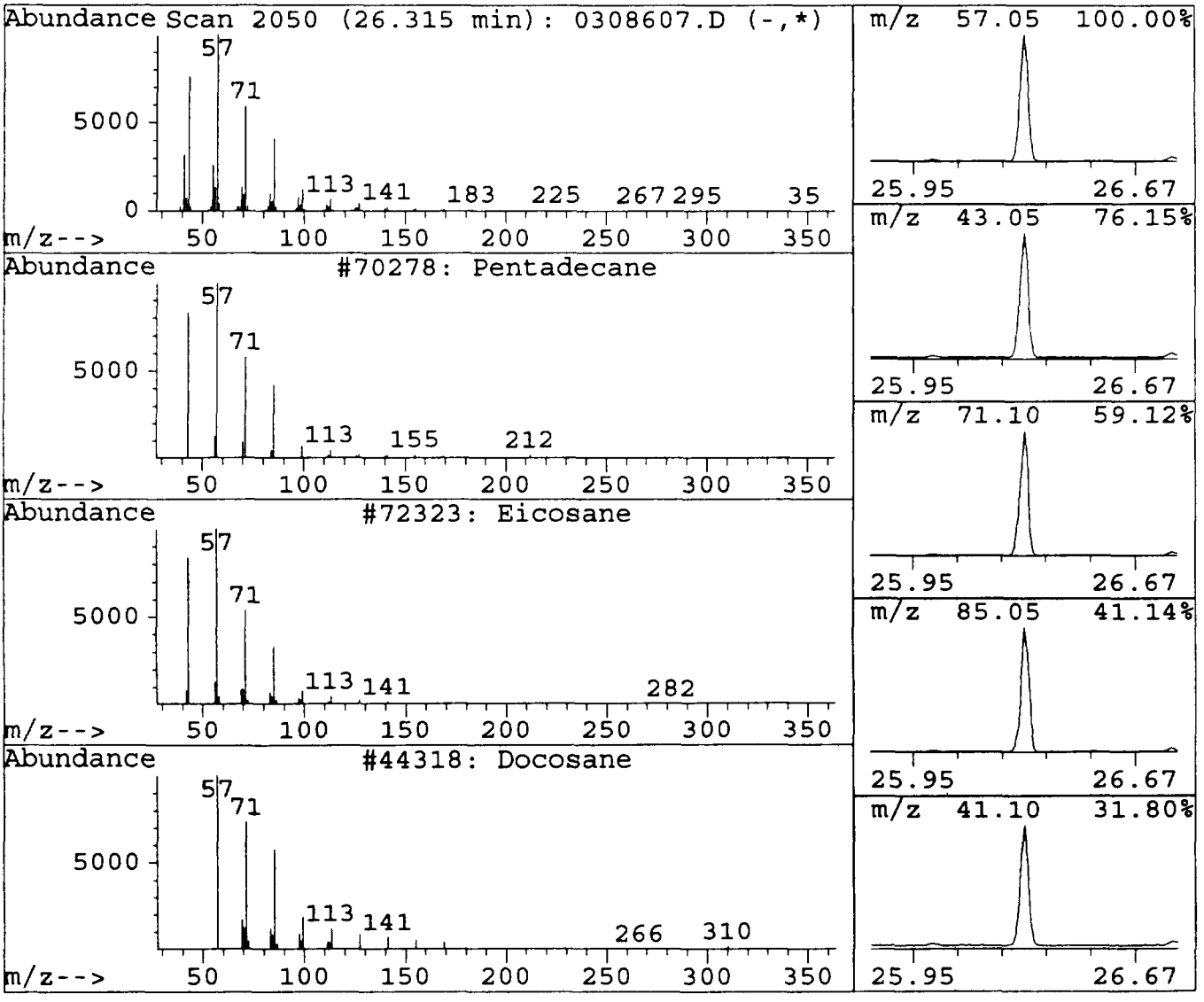
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
26.31	47.82 24	9458114	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Pentadecane	70278	000629-62-9	93
2	Eicosane	72323	000112-95-8	91
3	Docosane	44318	000629-97-0	91
4	Nonadecane	37469	000629-92-5	90
5	Heneicosane	42201	000629-94-7	90



Library Search Compound Report

2 2 0553

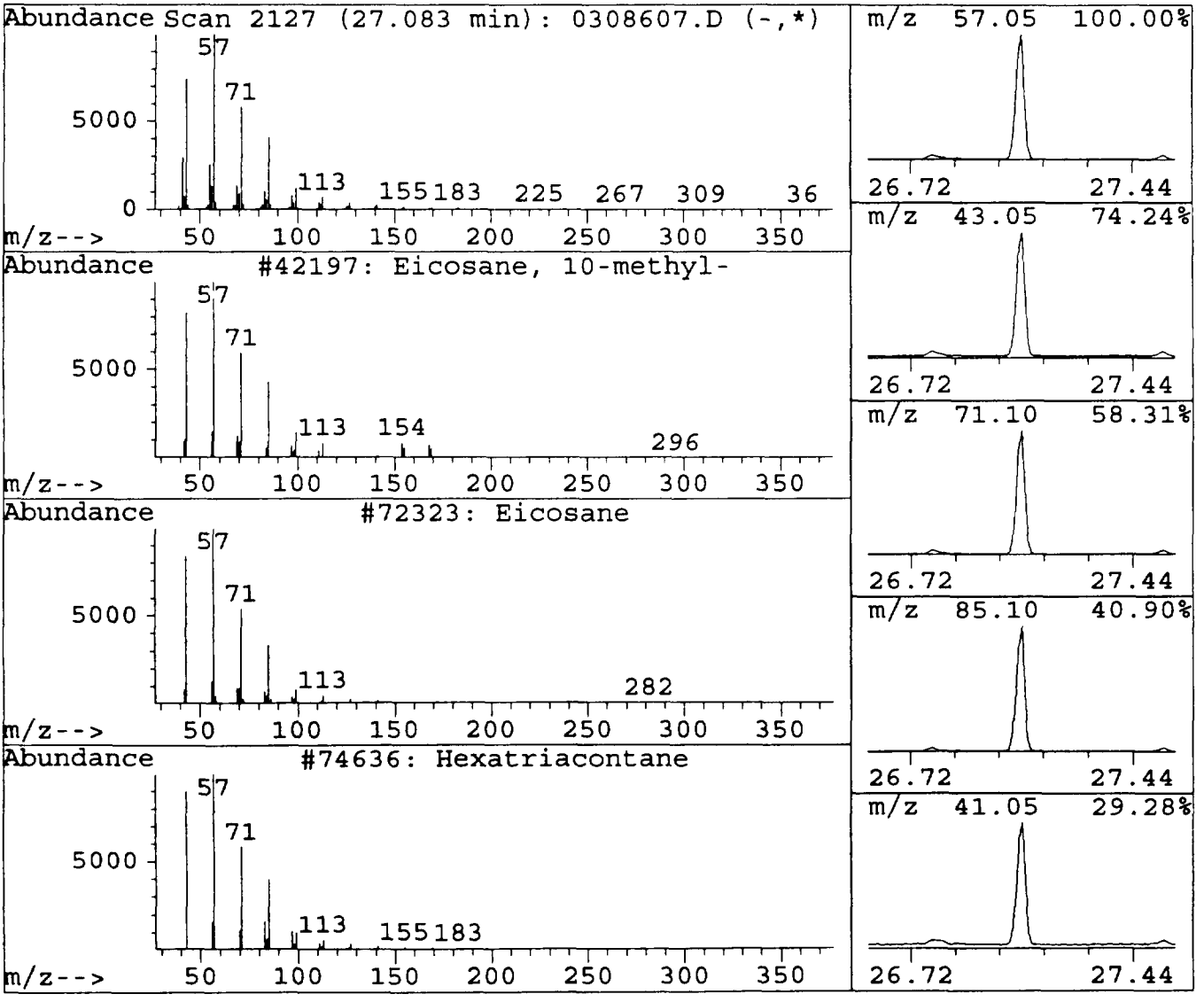
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
27.08	44.86 22	8872078	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane, 10-methyl-	42197	054833-23-7	95
2	Eicosane	72323	000112-95-8	91
3	Hexatriacontane	74636	000630-06-8	91
4	Pentacosane	49559	000629-99-2	91
5	Docosane	44318	000629-97-0	91



Library Search Compound Report

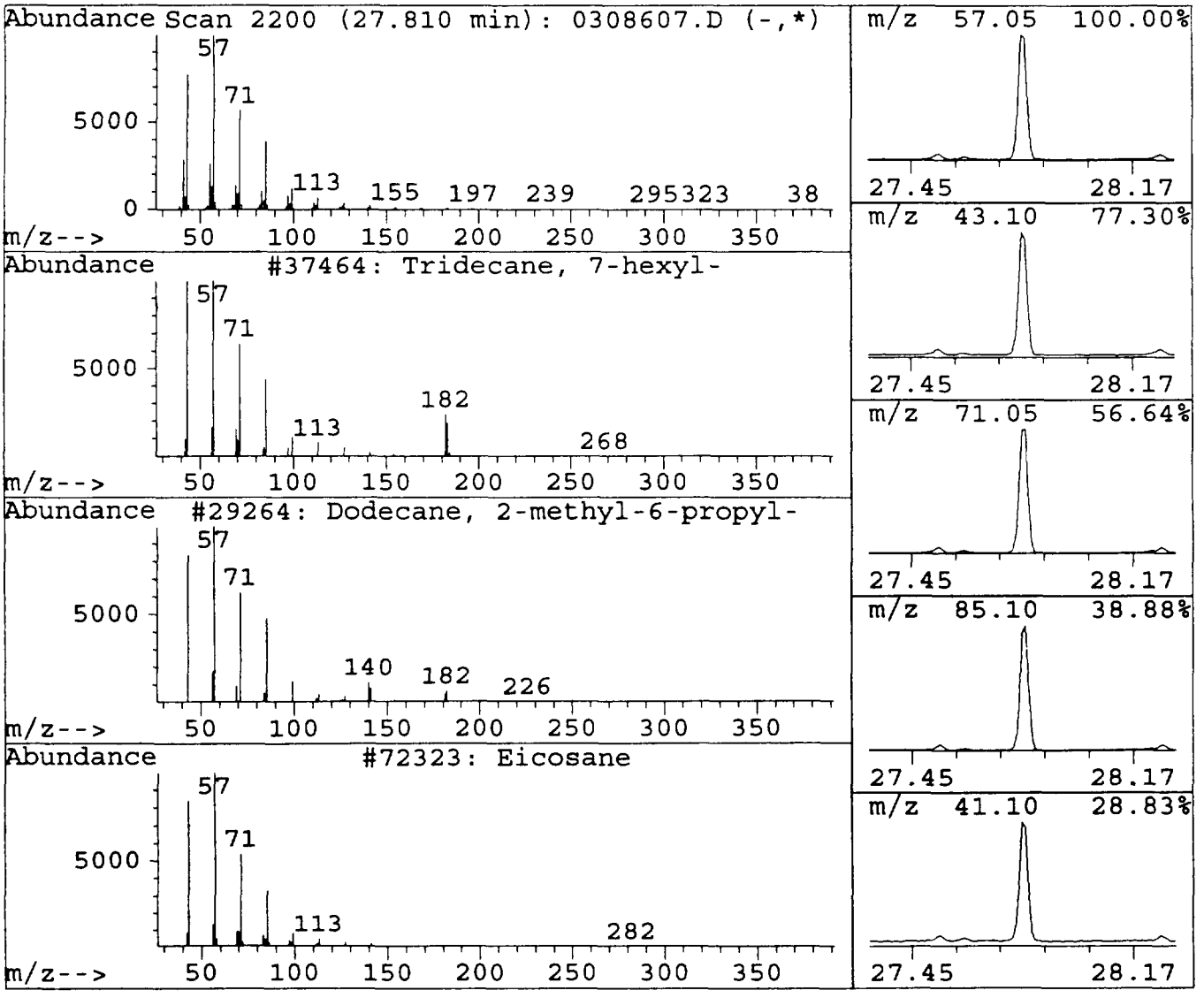
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc		Area	Relative to ISTD	R.T.
27.81	32.80	16	6486520	Chrysene-d12	26.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tridecane, 7-hexyl-	37464	007225-66-3	96
2	Dodecane, 2-methyl-6-propyl-	29264	055045-08-4	93
3	Eicosane	72323	000112-95-8	91
4	Hexatriacontane	74636	000630-06-8	91
5	Tetracosane	73543	000646-31-1	91



Library Search Compound Report

2 2 0555

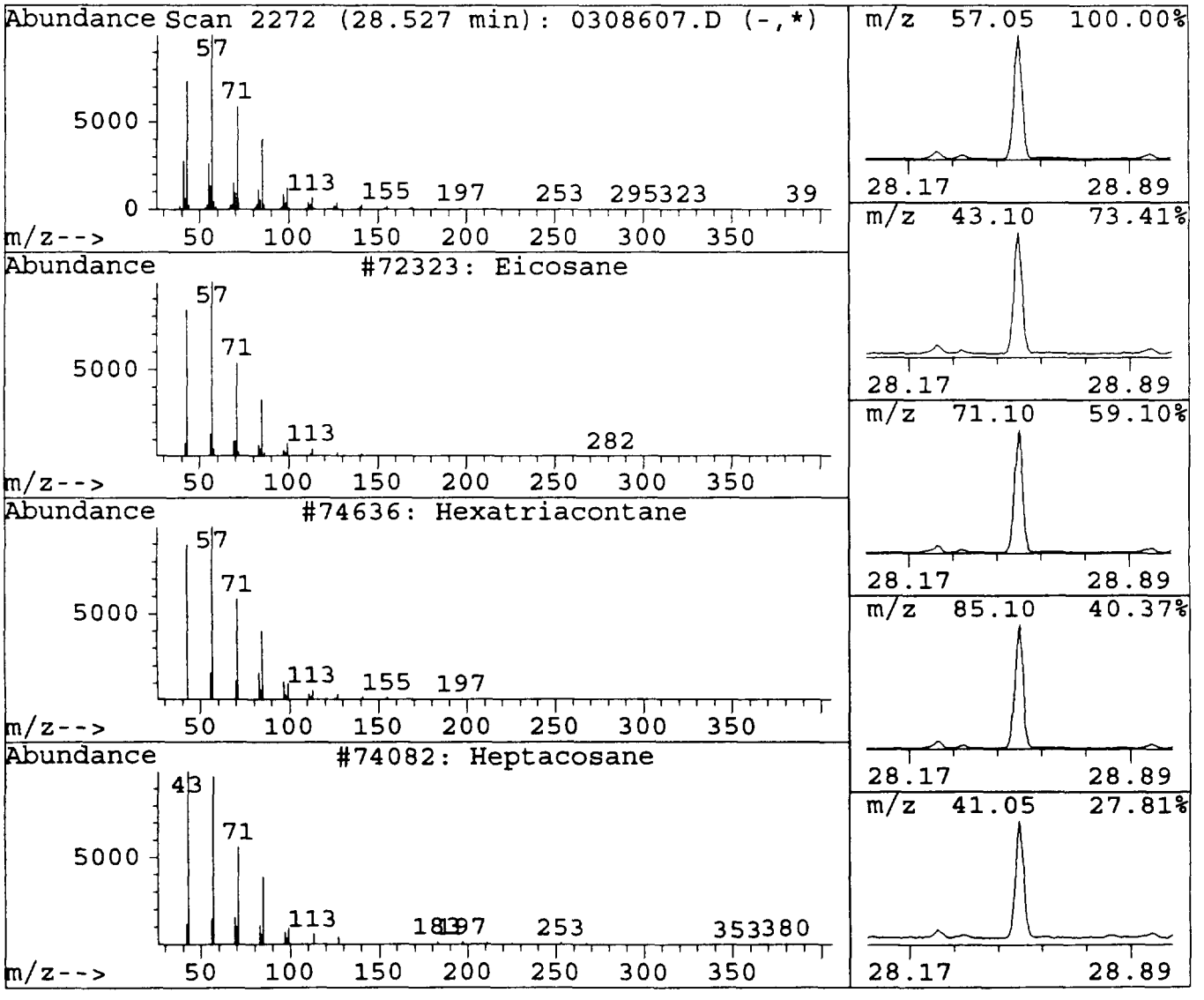
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc		Area	Relative to ISTD	R.T.
28.53	21.07	/o	4327176	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	72323	000112-95-8	91
2	Hexatriacontane	74636	000630-06-8	91
3	Heptacosane	74082	000593-49-7	91
4	Docosane	44318	000629-97-0	91
5	Nonacosane	54526	000630-03-5	91



Library Search Compound Report

2 2 0556

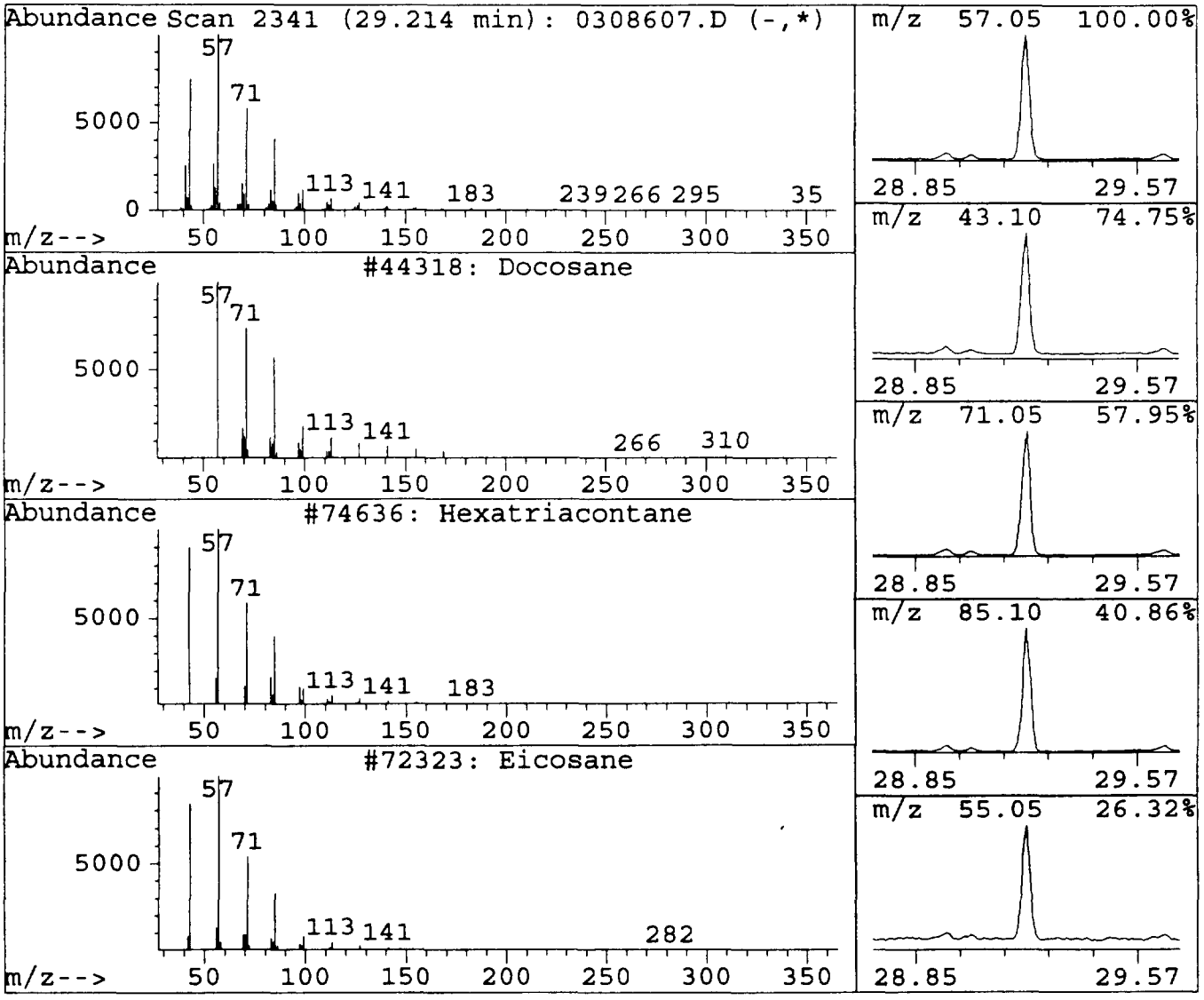
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
29.21	14.39 7	2954667	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Docosane	44318	000629-97-0	91
2	Hexatriacontane	74636	000630-06-8	91
3	Eicosane	72323	000112-95-8	90
4	Dotriacontane	74491	000544-85-4	90
5	Eicosane, 10-methyl-	42197	054833-23-7	90



Library Search Compound Report

2 2 0557

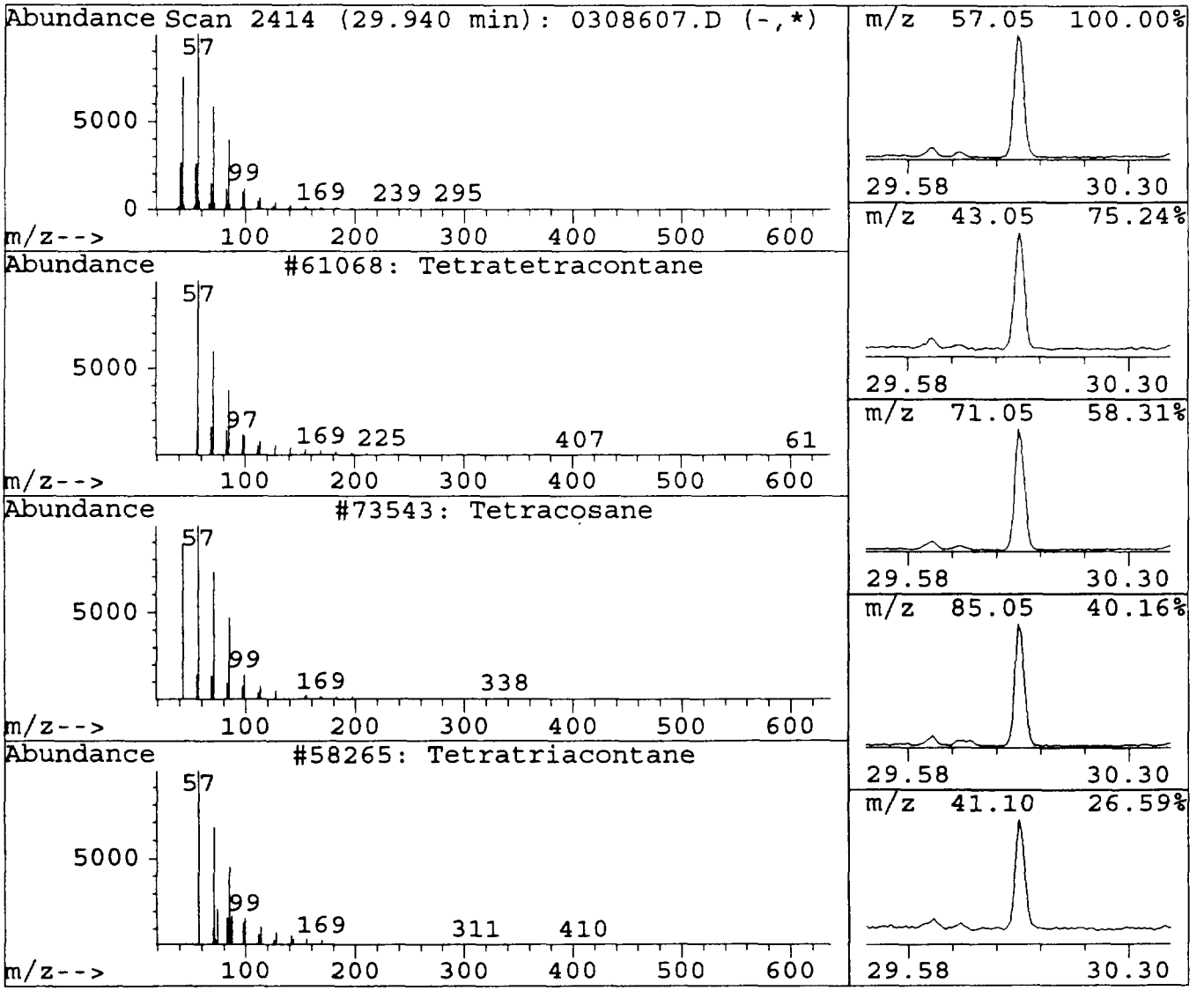
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
29.94	9.82 5	2016566	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetratetracontane	61068	007098-22-8	91
2	Tetracosane	73543	000646-31-1	90
3	Tetratriacontane	58265	014167-59-0	90
4	Hexatriacontane	59136	000630-06-8	90
5	Pentatriacontane	58743	000630-07-9	90



Library Search Compound Report

2 2 0558

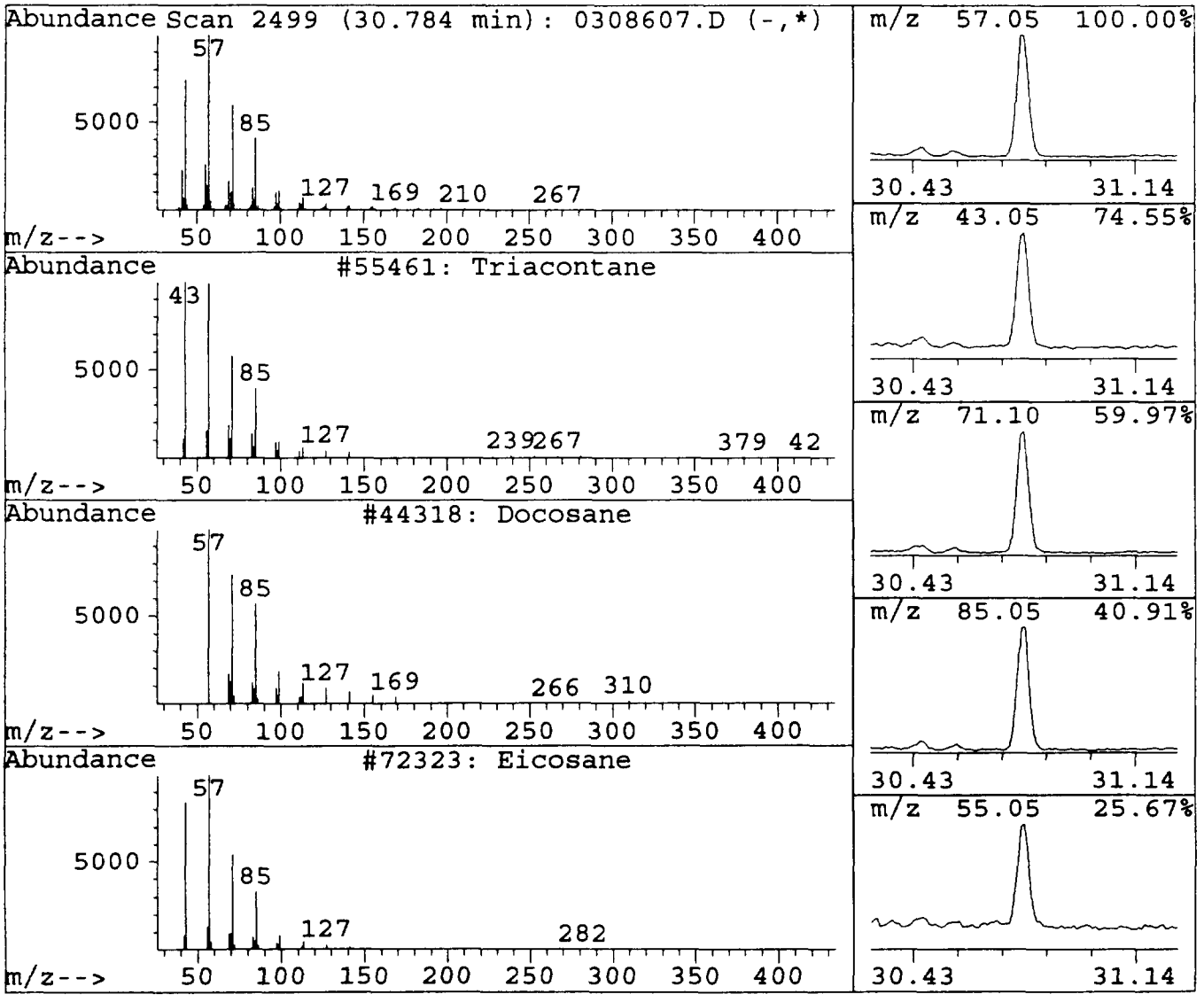
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
30.78	7.51 4	1543356	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Triacontane	55461	000638-68-6	91
2	Docosane	44318	000629-97-0	91
3	Eicosane	72323	000112-95-8	90
4	Heneicosane	42201	000629-94-7	90
5	Nonacosane	54526	000630-03-5	90



Library Search Compound Report

2 2 0559

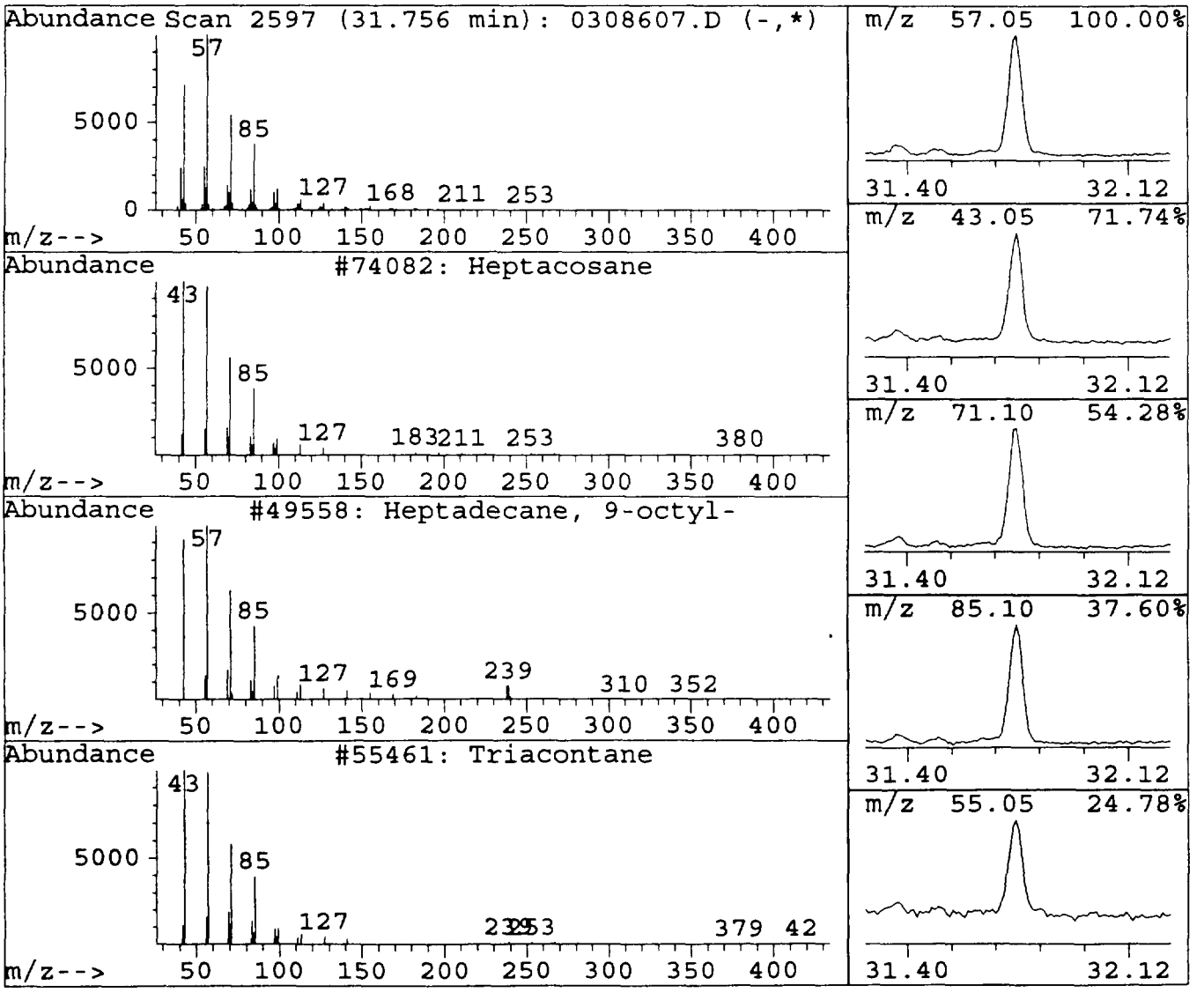
Data File : C:\HPCHEM\1\DATA\9503086.B\0308607.D
Acq On : 8 Mar 95 2:50 pm
Sample : 0309804 IEA MSD6
Misc :

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
31.76	5.36 3	1101095	Perylene-d12	29.79

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	74082	000593-49-7	91
2	Heptadecane, 9-octyl-	49558	007225-64-1	91
3	Triacontane	55461	000638-68-6	91
4	Hexatriacontane	59136	000630-06-8	91
5	Dotriacontane	74491	000544-85-4	90



An Aquarion Company

TENTATIVELY IDENTIFIED COMPOUNDS

2 2 0560

IEA Project Number: 2041-001(0)
IEA Sample Number: 950309804
Sample Identification: CS15A
Applicable Fraction: Volatile _____ Base/Neutral ✓ Acid ✓ Other _____

Tentatively Identified Compounds (TIC's) are compounds which are not in the specific target compound list but may be present in the sample. An attempt to identify such compounds is made through comparison of the mass spectra of these unknown compounds in the sample with approximately 50,000 spectra contained in the computer's mass spectral library. Analytical standards are not utilized in this procedure and therefore, compounds identified in this manner are referred to as "Tentative" identifications:

IEA personnel identify and classify these compounds using identification guidelines provided by the USEPA under the Contract Laboratory Program (CLP). A gross estimation of concentration is accomplished by comparing the response of the unknown compound versus the nearest internal standard in the total ion chromatogram. As per EPA CLP guidance, TIC's are identified and quantitated only if the response is equal to or greater than 10% of the nearest internal standard. Compounds identified as "unknown" are not uncommon utilizing these guidelines since the requirements for even a tentative identification are quite stringent.

TIC	Compound Name		Estimated Concentration (ug/L) (ug/kg)
1.	unknown acid/ester	17.85 ~~5.59~~ DM 3/08/95	3
2.	unknown	18.07	3
3.	unknown	19.20	2
4.	unknown	20.46	2
5.	unknown alkane	23.83	3
6.	unknown alkane	24.69	10
7.	unknown alkane	25.52	19
8.	unknown alkane	26.31	24
9.	unknown alkane	27.08	22
10.	unknown alkane	27.81	16
11.	unknown alkane	28.53	10
12.	unknown alkane	29.21	7
13.	unknown alkane	29.94	5
14.	unknown alkane	30.78	4
15.	unknown alkane	31.76	3
16.			
17.			
18.			
19.			
20.			

Comments:

21 _____
22 _____
23 _____

FORM TIC Rev. 120491

24 _____
25 _____

6LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Instrument ID: MSD6 Calibration Date(s): 03/07/95

Calibration Times: 1207 1513

LAB FILE ID: RRF5 =0307605.D RRF10=0307606.D
RRF20=0307604.D RRF50=0307607.D RRF80=0307608.D

COMPOUND		RRF5	RRF10	RRF20	RRF50	RRF80	$\overline{RRF}$	% RSD
Phenol	*	2.400	2.410	2.332	1.965	1.857	2.193	11.9*
bis(2-Chloroethyl)ether	*	1.801	1.804	1.704	1.423	1.332	1.613	13.7*
2-Chlorophenol	*	1.716	1.711	1.677	1.495	1.470	1.614	7.5*
2-Methylphenol	*	1.706	1.721	1.671	1.509	1.497	1.621	6.7*
2,2'-oxybis(1-Chloropropane)		2.844	2.839	2.755	2.401	2.347	2.637	9.2
4-Methylphenol	*	1.860	1.873	1.846	1.605	1.582	1.753	8.3*
N-Nitroso-di-n-propylamine	*	1.590	1.618	1.547	1.240	1.184	1.436	14.4*
Hexachloroethane	*	0.672	0.675	0.659	0.547	0.521	0.615	12.1*
Nitrobenzene	*	0.450	0.437	0.427	0.392	0.396	0.420	6.1*
Isophorone	*	0.951	0.940	0.919	0.834	0.879	0.905	5.3*
2-Nitrophenol	*	0.221	0.223	0.227	0.214	0.223	0.222	2.2*
2,4-Dimethylphenol	*	0.379	0.376	0.374	0.328	0.331	0.358	7.1*
bis(2-Chloroethoxy)methane	*	0.527	0.525	0.505	0.454	0.465	0.495	6.8*
4-Dichlorophenol	*	0.282	0.286	0.278	0.262	0.271	0.276	3.4*
,2,4-Trichlorobenzene	*	0.275	0.273	0.267	0.242	0.248	0.261	5.7*
Naphthalene	*	1.152	1.140	1.098	0.955	0.911	1.051	10.6*
4-Chloroaniline		0.526	0.527	0.514	0.457	0.465	0.498	6.8
Hexachlorobutadiene		0.136	0.133	0.130	0.119	0.122	0.128	5.6
4-Chloro-3-methylphenol	*	0.388	0.384	0.380	0.339	0.337	0.366	6.9*
2-Methylnaphthalene	*	0.751	0.729	0.717	0.627	0.623	0.690	8.7*
Hexachlorocyclopentadiene		0.129	0.175	0.218	0.244	0.260	0.205	25.9
2,4,6-Trichlorophenol	*	0.333	0.336	0.344	0.321	0.317	0.330	3.4*
2,4,5-Trichlorophenol	*	0.369	0.370	0.356	0.341	0.328	0.353	5.1*
2-Chloronaphthalene	*	1.130	1.113	1.101	0.993	0.969	1.061	7.0*
2-Nitroaniline		0.524	0.514	0.503	0.478	0.478	0.499	4.2
Dimethylphthalate		1.474	1.453	1.442	1.275	1.254	1.380	7.6
Acenaphthylene	*	2.072	2.054	2.019	1.772	1.717	1.927	8.8*
2,6-Dinitrotoluene	*	0.349	0.353	0.361	0.333	0.339	0.347	3.1*
3-Nitroaniline		0.478	0.477	0.454	0.406	0.376	0.438	10.3
Acenaphthene	*	1.203	1.138	1.083	0.932	0.881	1.047	13.1*
2,4-Dinitrophenol		0.180	0.224	0.241	0.235	0.242	0.224	11.6
4-Nitrophenol		0.190	0.201	0.204	0.191	0.190	0.195	3.3
Dibenzofuran	*	1.664	1.626	1.589	1.414	1.363	1.531	8.8*
2,4-Dinitrotoluene	*	0.503	0.503	0.491	0.438	0.438	0.475	7.0*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

FORM VI LCSV-1 6/91

6LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS INITIAL CALIBRATION SUMMARY

Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Instrument ID: MSD6 Calibration Date(s): 03/07/95

Calibration Times: 1207 1513

LAB FILE ID: RRF5 =0307605.D RRF10 =0307606.D
RRF20 =0307604.D RRF50 =0307607.D RRF80 =0307608.D

COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF80	$\overline{RRF}$	% RSD
Diethylphthalate	1.629	1.602	1.506	1.225	1.061	1.405	17.8
4-Chlorophenyl-phenylether *	0.581	0.574	0.560	0.486	0.444	0.529	11.5*
Fluorene *	1.342	1.289	1.223	1.008	0.890	1.151	16.8*
4-Nitroaniline	0.512	0.513	0.487	0.451	0.410	0.474	9.2
4,6-Dinitro-2-methylphenol	0.191	0.210	0.204	0.187	0.178	0.194	6.7
N-Nitrosodiphenylamine (1)	0.667	0.664	0.627	0.533	0.516	0.602	12.0
4-Bromophenyl-phenylether *	0.223	0.223	0.216	0.197	0.196	0.211	6.6*
Hexachlorobenzene *	0.248	0.242	0.241	0.216	0.213	0.232	7.0*
Pentachlorophenol *	0.125	0.146	0.152	0.147	0.152	0.144	7.7*
Phenanthrene *	1.325	1.305	1.257	1.096	1.071	1.211	9.8*
Anthracene *	1.337	1.334	1.291	1.126	1.075	1.233	10.0*
Di-n-butylphthalate	2.034	1.966	1.890	1.587	1.463	1.788	13.9
Fluoranthene *	1.407	1.386	1.333	1.139	1.104	1.274	11.2*
rene *	1.541	1.531	1.557	1.432	1.439	1.500	4.0*
utylbenzylphthalate	1.001	0.980	0.990	0.924	0.936	0.966	3.5
3,3'-Dichlorobenzidine	0.486	0.456	0.443	0.406	0.408	0.440	7.7
Benzo(a)anthracene *	1.386	1.379	1.388	1.277	1.282	1.342	4.3*
Chrysene *	1.276	1.274	1.259	1.155	1.153	1.224	5.2*
bis(2-Ethylhexyl)phthalate	1.397	1.355	1.350	1.208	1.191	1.300	7.2
Di-n-octylphthalate	2.142	2.128	2.041	1.724	1.592	1.925	13.1
Benzo(b)fluoranthene *	1.267	1.185	1.227	1.064	1.155	1.180	6.6*
Benzo(k)fluoranthene *	1.054	1.115	1.023	0.922	0.797	0.982	12.7*
Benzo(a)pyrene *	1.120	1.108	1.087	0.976	0.984	1.055	6.6*
Indeno(1,2,3-cd)pyrene *	1.186	1.173	1.178	1.107	1.129	1.155	3.0*
Dibenz(a,h)anthracene *	0.939	0.928	0.930	0.848	0.863	0.902	4.7*
Benzo(g,h,i)perylene *	1.017	1.000	1.015	0.935	0.968	0.987	3.5*
Nitrobenzene-d5	0.445	0.440	0.432	0.402	0.416	0.427	4.2
2-Fluorobiphenyl *	1.251	1.193	1.159	1.035	0.980	1.123	10.0*
Terphenyl-d14 *	0.948	0.929	0.930	0.847	0.845	0.900	5.5*
Phenol-d5 *	2.292	2.305	2.263	2.010	1.986	2.171	7.3*
2-Fluorophenol *	1.472	1.549	1.526	1.416	1.457	1.484	3.6*
2,4,6-Tribromophenol	0.185	0.184	0.178	0.165	0.160	0.175	6.5

(1) - Cannot be separated from Diphenylamine
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

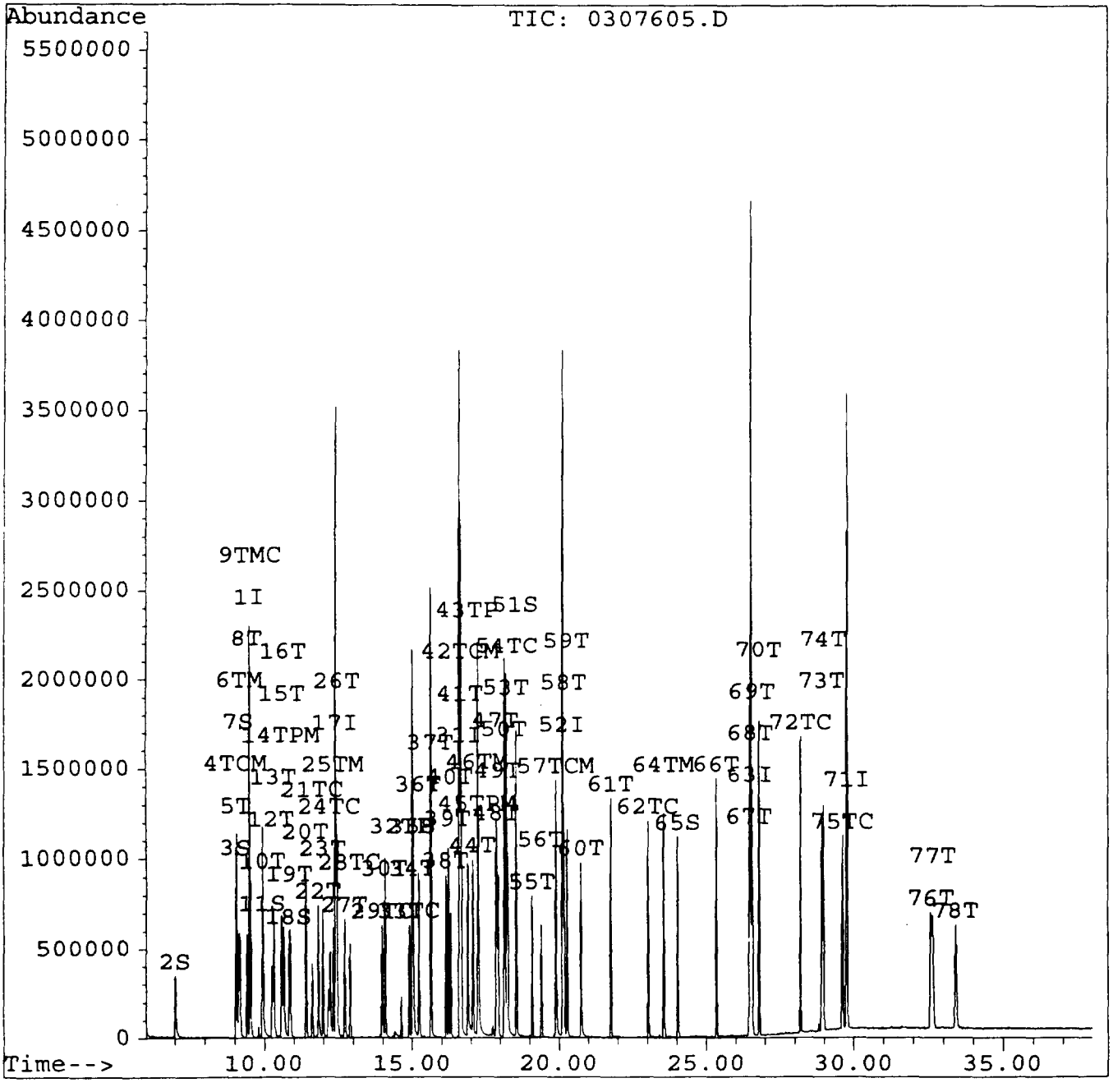
FORM VI LCSV-2 6/91

Quantitation Report

Data File : C:\HPCHEM\1\DATA\9503076.B\0307605.D
Acq On : 7 Mar 95 12:53 pm
Sample : SSTD010 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 14:08 1995

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 14:01:32 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\9503076.B\0307605.D
Acq On : 7 Mar 95 12:53 pm
Sample : SSTD010 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 14:08 1995

Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 14:01:32 1995
Response via : Continuing Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.51	152	710945	40.00	0.00
17) Naphthalene-d8	12.42	136	3187956	40.00	0.00
31) Acenaphthene-d10	16.62	164	1850370	40.00	0.00
52) Phenanthrene-d10	20.13	188	2737467	40.00	-0.02
63) Chrysene-d12	26.52	240	2633237	40.00	0.00
71) Perylene-d12	29.77	264	2923684	40.00	0.00
System Monitoring Compounds					%Recovery
2) 2-Fluorophenol	7.02	112	261594	9.65	24.123%
3) Phenol-d5	9.05	99	407328	10.13	25.318%
7) 2-Chlorophenol-d4	9.15	132	304056	10.13	25.335%
11) 1,2-Dichlorobenzene-d4	9.92	152	156726	10.14	25.346%
18) Nitrobenzene-d5	10.84	82	354383	10.28	25.711%
35) 2-Fluorobiphenyl	15.05	172	578785	10.80	26.995%
51) 2,4,6-Tribromophenol	18.56	330	342779	41.52	34.601%
65) Terphenyl-d14	24.04	244	624286	10.20	25.497%
Target Compounds					Qvalue
4) Phenol	9.07	94	426545	10.29	# 85
5) Bis(2-Chloroethyl)ether	9.07	93	320072	10.57	# 85
6) 2-Chlorophenol	9.19	128	305035	10.24	98
8) 1,3-Dichlorobenzene	9.42	146	273999	10.21	98
9) 1,4-Dichlorobenzene	9.55	146	293383	10.52	3/7/95 m 97
10) 1,2-Dichlorobenzene	9.95	146	265939	10.36	99
12) 2,2'-oxybis(1-Chloropropan	10.27	45	505447	10.32	# 57
13) 2-Methylphenol	10.33	108	303137	10.12	# 92
14) N-Nitroso-di-n-propylamine	10.58	70	282638	10.28	# 86
15) Hexachloroethane	10.62	117	119352	10.19	89
16) 4-Methylphenol	10.67	108	330557	10.07	99
19) Nitrobenzene	10.88	77	358595	10.54	99
20) Isophorone	11.41	82	758177	10.35	99
21) 2-Nitrophenol	11.62	139	176479	9.74	94
22) 2,4-Dimethylphenol	11.83	107	302291	10.14	99
23) bis(2-Chloroethoxy)methane	11.98	93	420265	10.44	99
24) 2,4-Dichlorophenol	12.22	162	224611	10.13	93
25) 1,2,4-Trichlorobenzene	12.34	180	219149	10.28	97
26) Naphthalene	12.46	128	918494	10.50	99
27) 4-Chloroaniline	12.71	127	419220	10.22	97
28) Hexachlorobutadiene	12.90	225	108360	10.46	99
29) 4-Chloro-3-methylphenol	13.99	107	309246	10.21	90
30) 2-Methylnaphthalene	14.09	142	598715	10.47	98
32) Hexachlorocyclopentadiene	14.63	237	59893	5.94	99
33) 2,4,6-Trichlorophenol	14.90	196	154060	9.68	98
34) 2,4,5-Trichlorophenol	15.02	196	683459	41.59	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\9503076.B\0307605.D
Acq On : 7 Mar 95 12:53 pm
Sample : SSTD010 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 14:08 1995

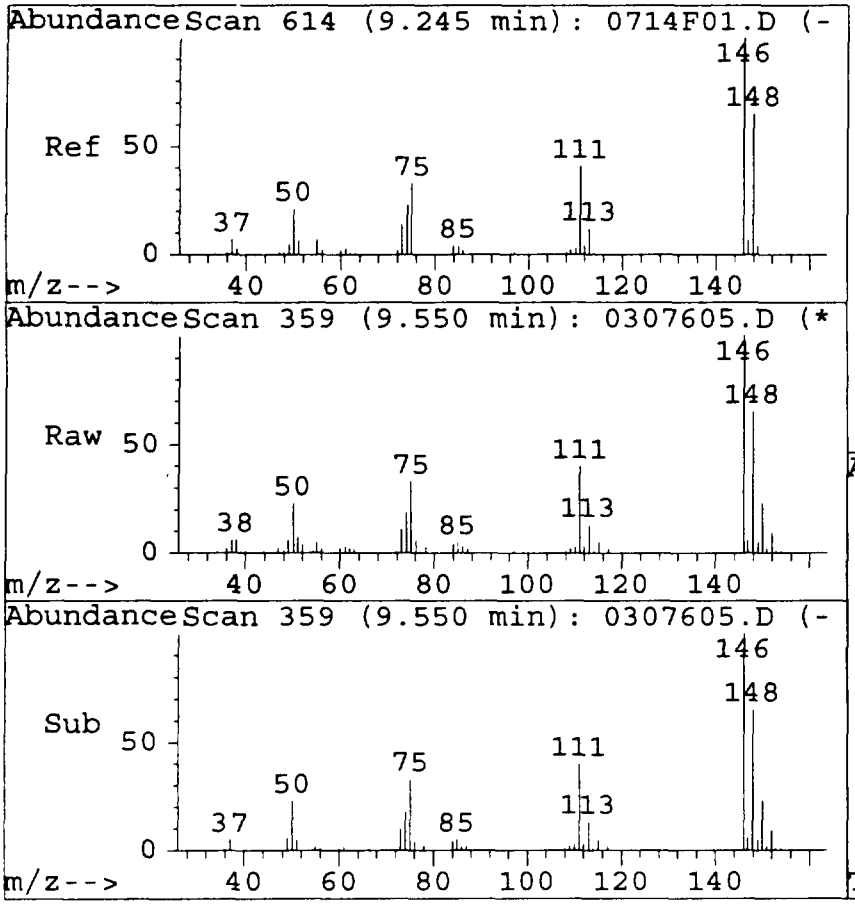
Vial: 5
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 14:01:32 1995
Response via : Continuing Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	2-Chloronaphthalene	15.23	162	522797	10.26		96
37)	2-Nitroaniline	15.65	65	969016	41.64		87
38)	Dimethylphthalate	16.16	163	681671	10.22		99
39)	Acenaphthylene	16.23	152	958535	10.27		99
40)	2,6-Dinitrotoluene	16.32	165	161400	9.67		94
41)	3-Nitroaniline	16.66	138	883986	42.13		90
42)	Acenaphthene	16.69	153	556610	11.12		98
43)	2,4-Dinitrophenol	16.90	184	332170	29.85		87
44)	Dibenzofuran	17.07	168	769824	10.47		100
45)	4-Nitrophenol	17.25	109	352110	37.37	#	87
46)	2,4-Dinitrotoluene	17.25	165	232618	10.24	#	1
47)	Diethylphthalate	17.87	149	753785	10.82		97
48)	Fluorene	17.90	166	620790	10.97		98
49)	4-Chlorophenyl-phenylether	17.94	204	268952	10.38		99
50)	4-Nitroaniline	18.15	138	946633	41.99		97
53)	4,6-Dinitro-2-Methylphenol	18.22	198	523018	37.46		98
54)	N-Nitrosodiphenylamine (1)	18.27	169	456676	10.64		95
55)	4-Bromophenyl-phenylether	19.10	248	152942	10.34		96
56)	Hexachlorobenzene	19.41	284	170046	10.30		96
57)	Pentachlorophenol	19.90	266	342232	32.91		97
58)	Phenanthrene	20.18	178	906936	10.54		98
59)	Anthracene	20.28	178	914814	10.35		99
60)	Carbazole	20.76	167	893252	10.33		100
61)	Di-n-butylphthalate	21.78	149	1392175	10.76		98
62)	Fluoranthene	23.04	202	962916	10.56		94
64)	Pyrene	23.57	202	1014287	9.90		94
66)	Butylbenzylphthalate	25.35	149	658943	10.11		89
67)	Benzo(a)anthracene	26.47	228	912516	9.98		98
68)	3,3'-Dichlorobenzidine	26.52	252	319921	10.96	#	95
69)	Chrysene	26.57	228	840137	10.12		99
70)	bis(2-Ethylhexyl)phthalate	26.81	149	919892	10.35		98
72)	Di-n-octylphthalate	28.20	149	1565838	10.50	#	91
73)	Benzo(b)fluoranthene	28.92	252	926252	10.33		96
74)	Benzo(k)fluoranthene	28.97	252	770704	10.30	#	92
75)	Benzo(a)pyrene	29.61	252	818581	10.24	#	94
76)	Indeno(1,2,3-cd)pyrene	32.59	276	867191	10.07	#	62
77)	Dibenz(a,h)anthracene	32.65	278	686503	10.10	#	93
78)	Benzo(g,h,i)perylene	33.43	276	743351	10.01	#	91

(#) = qualifier out of range (m) = manual integration

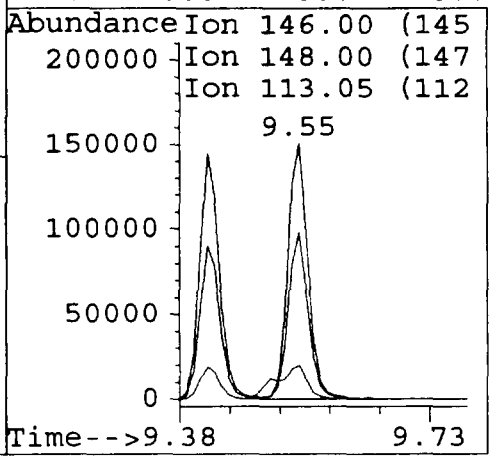
3/7/95 GS



#9
1,4-Dichlorobenzene
Concen: 10.52 m
RT: 9.55 min Scan# 359
Delta R.T. -0.00 min
Lab File: 0307605.D
Acq: 7 Mar 95 12:53 pm

Tgt Ion:146 Resp: 293383

Ion	Ratio	Lower	Upper
146	100		
148	65.0	52.9	79.4
113	12.9	11.3	17.0
0	0.0	0.0	0.0



2 2 0566

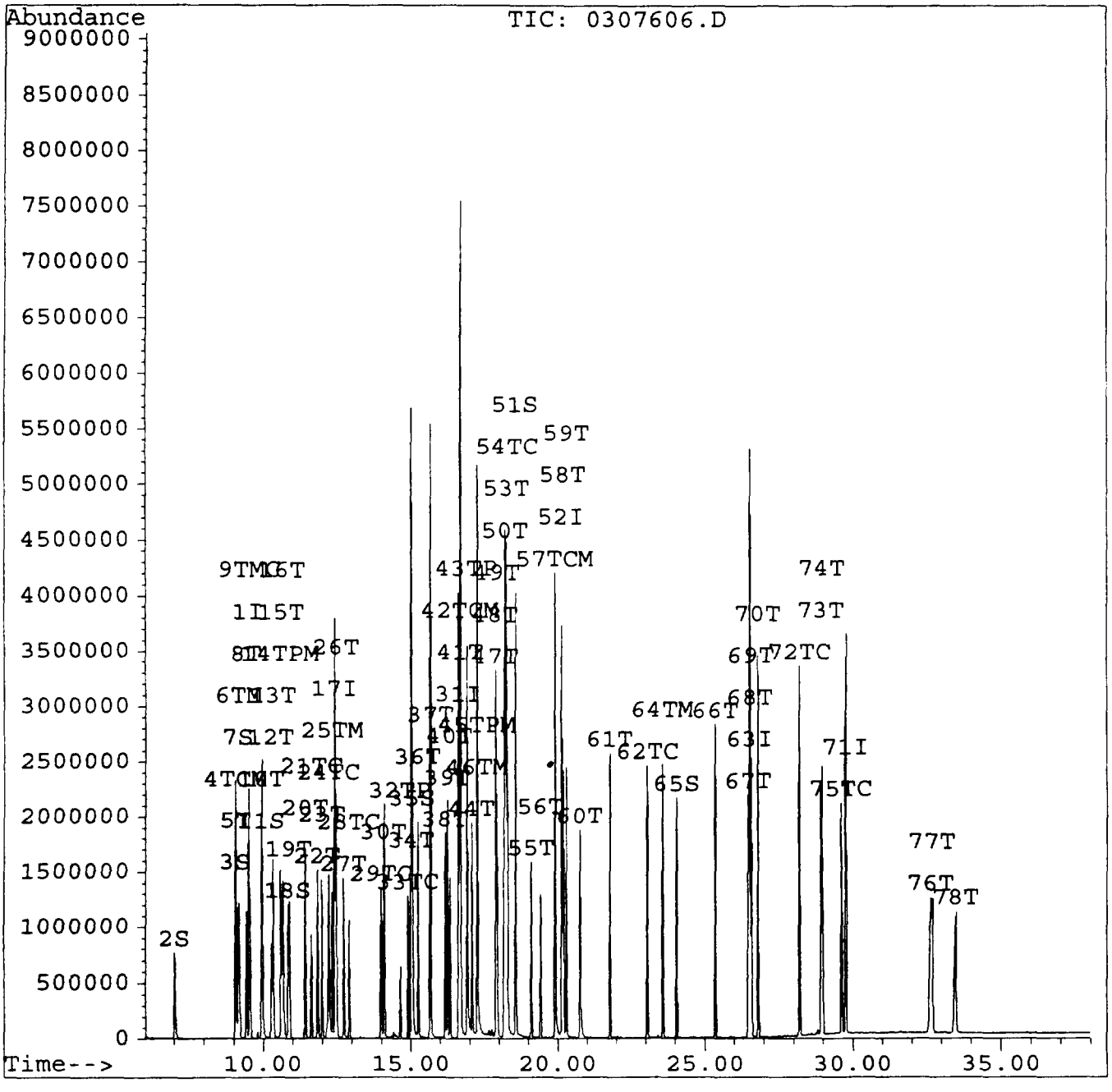
Quantitation Report

2 2 0567

Data File : C:\HPCHEM\1\DATA\9503076.B\0307606.D
Acq On : 7 Mar 95 1:40 pm
Sample : SSTD020 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 14:19 1995

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 14:01:32 1995
Response via : Single Level Calibration



Quantitation Report

2 2 0563

Data File : C:\HPCHEM\1\DATA\9503076.B\0307606.D
Acq On : 7 Mar 95 1:40 pm
Sample : SSTD020 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 14:19 1995

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 14:01:32 1995
Response via : Continuing Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.52	152	726360	40.00	0.00
17) Naphthalene-d8	12.42	136	3310618	40.00	0.00
31) Acenaphthene-d10	16.62	164	1914296	40.00	0.00
52) Phenanthrene-d10	20.13	188	2825194	40.00	0.00
63) Chrysene-d12	26.53	240	2636329	40.00	0.00
71) Perylene-d12	29.77	264	2927792	40.00	0.00
System Monitoring Compounds					%Recovery
2) 2-Fluorophenol	7.01	112	562432	20.31	50.764%
3) Phenol-d5	9.04	99	837050	20.37	50.925%
7) 2-Chlorophenol-d4	9.15	132	630634	20.57	51.431%
11) 1,2-Dichlorobenzene-d4	9.93	152	318465	20.16	50.409%
18) Nitrobenzene-d5	10.84	82	728492	20.36	50.895%
35) 2-Fluorobiphenyl	15.05	172	1141502	20.58	51.462%
51) 2,4,6-Tribromophenol	18.57	330	881636	103.23	86.023%
65) Terphenyl-d14	24.04	244	1224165	19.98	49.939%
Target Compounds					Qvalue
4) Phenol	9.07	94	875241	20.67	# 84
5) Bis(2-Chloroethyl)ether	9.07	93	654998	21.17	# 87
6) 2-Chlorophenol	9.19	128	621548	20.41	97
8) 1,3-Dichlorobenzene	9.42	146	562887	20.52	98
9) 1,4-Dichlorobenzene	9.55	146	582434	20.44	98
10) 1,2-Dichlorobenzene	9.96	146	542112	20.67	98
12) 2,2'-oxybis(1-Chloropropan	10.27	45	1031108	20.61	# 57
13) 2-Methylphenol	10.33	108	625157	20.43	# 93
14) N-Nitroso-di-n-propylamine	10.58	70	587525	20.91	88
15) Hexachloroethane	10.62	117	245234	20.49	90
16) 4-Methylphenol	10.66	108	680111	20.29	98
19) Nitrobenzene	10.88	77	723696	20.48	98
20) Isophorone	11.42	82	1555834	20.45	99
21) 2-Nitrophenol	11.62	139	368533	19.59	94
22) 2,4-Dimethylphenol	11.83	107	621877	20.09	98
23) bis(2-Chloroethoxy)methane	11.98	93	868648	20.77	99
24) 2,4-Dichlorophenol	12.22	162	472615	20.53	95
25) 1,2,4-Trichlorobenzene	12.34	180	451777	20.42	98
26) Naphthalene	12.46	128	1887300	20.77	98
27) 4-Chloroaniline	12.71	127	872169	20.48	98
28) Hexachlorobutadiene	12.90	225	220653	20.50	99
29) 4-Chloro-3-methylphenol	13.98	107	635348	20.20	90
30) 2-Methylnaphthalene	14.09	142	1206964	20.33	98
32) Hexachlorocyclopentadiene	14.63	237	167705	16.06	100
33) 2,4,6-Trichlorophenol	14.91	196	321454	19.52	99
34) 2,4,5-Trichlorophenol	15.02	196	1771096	104.17	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

2 2 0569

Data File : C:\HPCHEM\1\DATA\9503076.B\0307606.D
Acq On : 7 Mar 95 1:40 pm
Sample : SSTD020 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 14:19 1995

Vial: 6
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 14:01:32 1995
Response via : Continuing Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	2-Chloronaphthalene	15.24	162	1065397	20.22		96
37)	2-Nitroaniline	15.67	65	2459443	102.15		88
38)	Dimethylphthalate	16.17	163	1390702	20.15		100
39)	Acenaphthylene	16.25	152	1965513	20.35		98
40)	2,6-Dinitrotoluene	16.32	165	337804	19.57		94
41)	3-Nitroaniline	16.69	138	2280796	105.07		92
42)	Acenaphthene	16.69	153	1089230	21.02		98
43)	2,4-Dinitrophenol	16.91	184	1073537	93.24		86
44)	Dibenzofuran	17.07	168	1556670	20.47		99
45)	4-Nitrophenol	17.27	109	960495	98.53	#	86
46)	2,4-Dinitrotoluene	17.26	165	481168	20.48	#	1
47)	Diethylphthalate	17.88	149	1533485	21.28		98
48)	Fluorene	17.90	166	1234151	21.08		98
49)	4-Chlorophenyl-phenylether	17.94	204	549580	20.50		99
50)	4-Nitroaniline	18.20	138	2452825	105.17		95
53)	4,6-Dinitro-2-Methylphenol	18.25	198	1483774	102.98	#	79
54)	N-Nitrosodiphenylamine (1)	18.28	169	938195	21.18		99
55)	4-Bromophenyl-phenylether	19.09	248	314855	20.62		98
56)	Hexachlorobenzene	19.42	284	342016	20.08		95
57)	Pentachlorophenol	19.92	266	1031664	96.12		98
58)	Phenanthrene	20.19	178	1843507	20.77		98
59)	Anthracene	20.29	178	1885098	20.67		99
60)	Carbazole	20.75	167	1807074	20.24		99
61)	Di-n-butylphthalate	21.78	149	2776669	20.80		98
62)	Fluoranthene	23.05	202	1958464	20.81		95
64)	Pyrene	23.57	202	2018690	19.67		94
66)	Butylbenzylphthalate	25.36	149	1291257	19.79		89
67)	Benzo(a)anthracene	26.48	228	1817328	19.86		98
68)	3,3'-Dichlorobenzidine	26.53	252	601547	20.58	#	95
69)	Chrysene	26.59	228	1679950	20.21		99
70)	bis(2-Ethylhexyl)phthalate	26.80	149	1786269	20.08		99
72)	Di-n-octylphthalate	28.21	149	3115337	20.85	#	92
73)	Benzo(b)fluoranthene	28.93	252	1734751	19.32	#	94
74)	Benzo(k)fluoranthene	28.98	252	1632798	21.78	#	95
75)	Benzo(a)pyrene	29.62	252	1622541	20.28	#	94
76)	Indeno(1,2,3-cd)pyrene	32.61	276	1717312	19.92	#	62
77)	Dibenz(a,h)anthracene	32.67	278	1358542	19.96		95
78)	Benzo(g,h,i)perylene	33.46	276	1464206	19.69	#	91

(#) = qualifier out of range (m) = manual integration

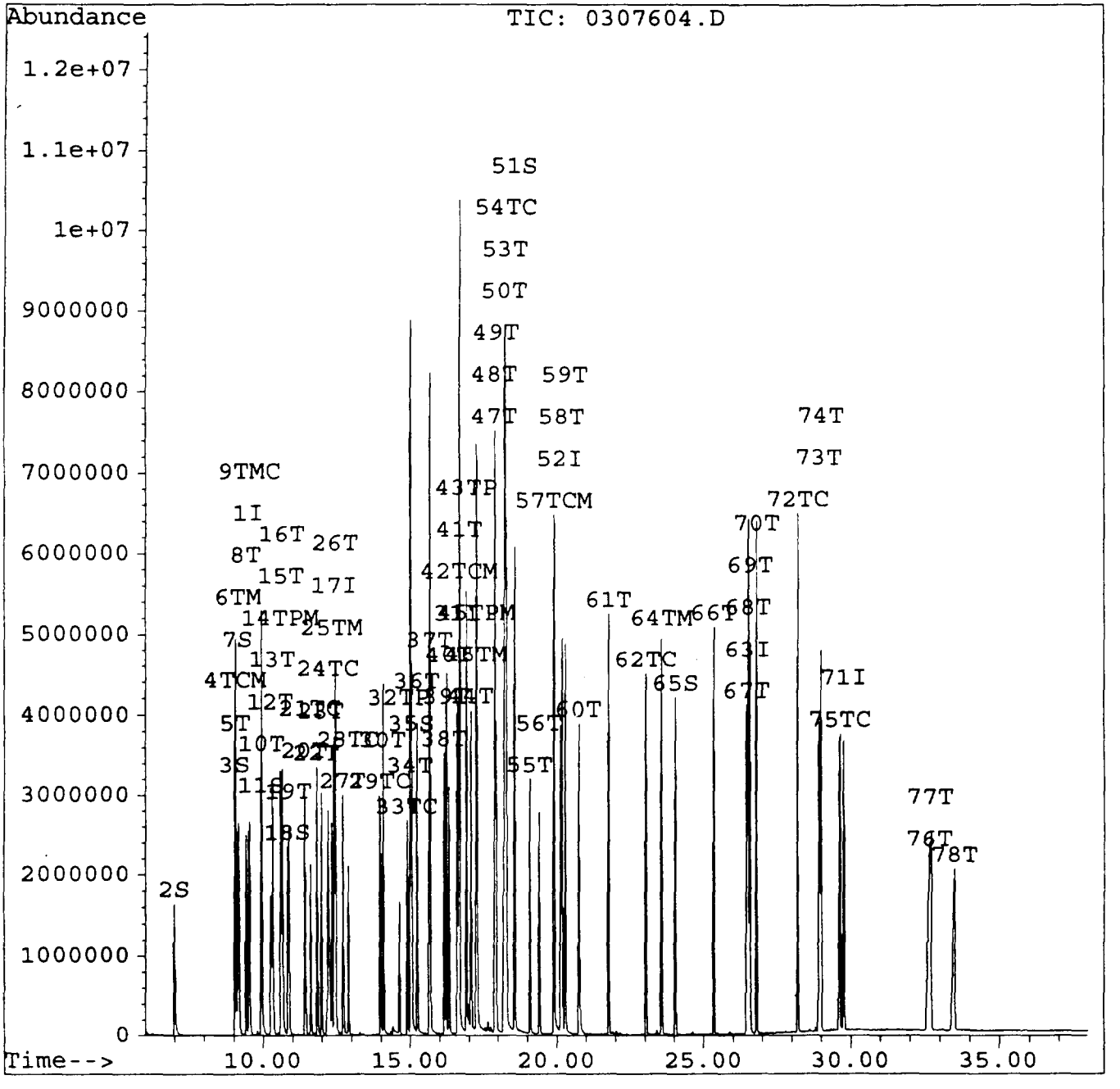
Quantitation Report

2 2 0570

Data File : C:\HPCHEM\1\DATA\9503076.B\0307604.D
Acq On : 7 Mar 95 12:07 pm
Sample : SSTD040 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 14:02 1995

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 14:01:32 1995
Response via : Multiple Level Calibration



Quantitation Report 2 2 0571

Data File : C:\HPCHEM\1\DATA\9503076.B\0307604.D
Acq On : 7 Mar 95 12:07 pm
Sample : SSTD040 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 14:02 1995

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 14:01:32 1995
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.51	152	788543	40.00	0.00
17) Naphthalene-d8	12.42	136	3549198	40.00	0.00
31) Acenaphthene-d10	16.62	164	2035434	40.00	0.00
52) Phenanthrene-d10	20.14	188	3002862	40.00	0.00
63) Chrysene-d12	26.53	240	2675821	40.00	0.00
71) Perylene-d12	29.77	264	3023312	40.00	0.00
System Monitoring Compounds					%Recovery
2) 2-Fluorophenol	7.01	112	1203130	47.04	117.592%
3) Phenol-d5	9.04	99	1784424	49.04	122.598%
7) 2-Chlorophenol-d4	9.15	132	1331137	47.94	119.847%
11) 1,2-Dichlorobenzene-d4	9.92	152	685840	41.61	104.033%
18) Nitrobenzene-d5	10.84	82	1534515	45.31	113.278%
35) 2-Fluorobiphenyl	15.06	172	2358513	47.83	119.586%
51) 2,4,6-Tribromophenol	18.58	330	1452993	165.24	137.696%
65) Terphenyl-d14	24.05	244	2488042	42.81	107.035%
Target Compounds					Qvalue
4) Phenol	9.07	94	1838995	52.98	# 85
5) Bis(2-Chloroethyl)ether	9.07	93	1343832	48.72	# 86
6) 2-Chlorophenol	9.18	128	1322152	48.91	98
8) 1,3-Dichlorobenzene	9.42	146	1191166	45.65	98
9) 1,4-Dichlorobenzene	9.55	146	1237571	47.11	98
10) 1,2-Dichlorobenzene	9.95	146	1138921	47.16	99
12) 2,2'-oxybis(1-Chloropropan	10.27	45	2172665	63.50	# 58
13) 2-Methylphenol	10.33	108	1317641	51.39	# 93
14) N-Nitroso-di-n-propylamine	10.59	70	1219857	52.86	89
15) Hexachloroethane	10.62	117	519696	51.70	89
16) 4-Methylphenol	10.66	108	1455629	55.18	99
19) Nitrobenzene	10.89	77	1515108	45.88	96
20) Isophorone	11.42	82	3261872	44.27	100
21) 2-Nitrophenol	11.61	139	806839	43.96	96
22) 2,4-Dimethylphenol	11.83	107	1327432	46.63	98
23) bis(2-Chloroethoxy)methane	11.99	93	1793133	45.45	99
24) 2,4-Dichlorophenol	12.21	162	987097	41.06	96
25) 1,2,4-Trichlorobenzene	12.33	180	948906	42.96	98
26) Naphthalene	12.46	128	3896684	49.77	99
27) 4-Chloroaniline	12.72	127	1826019	47.44	98
28) Hexachlorobutadiene	12.90	225	461535	41.08	98
29) 4-Chloro-3-methylphenol	13.98	107	1348722	47.82	91
30) 2-Methylnaphthalene	14.09	142	2546357	46.28	99
32) Hexachlorocyclopentadiene	14.63	237	444015	35.18	99
33) 2,4,6-Trichlorophenol	14.91	196	700286	43.92	99
34) 2,4,5-Trichlorophenol	15.03	196	2897869	176.70	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

2 2 0572

Data File : C:\HPCHEM\1\DATA\9503076.B\0307604.D
Acq On : 7 Mar 95 12:07 pm
Sample : SSTD040 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 14:02 1995

Vial: 4
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 14:01:32 1995
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	2-Chloronaphthalene	15.24	162	2241380	48.75		96
37)	2-Nitroaniline	15.69	65	4096104	214.65		89
38)	Dimethylphthalate	16.18	163	2934838	47.17		99
39)	Acenaphthylene	16.25	152	4108668	50.78		99
40)	2,6-Dinitrotoluene	16.34	165	734065	46.28		96
41)	3-Nitroaniline	16.71	138	3692935	197.34		92
42)	Acenaphthene	16.69	153	2203424	48.69		97
43)	2,4-Dinitrophenol	16.94	184	1958781	162.15		88
44)	Dibenzofuran	17.09	168	3234590	48.40		99
45)	4-Nitrophenol	17.28	109	1658400	167.82	#	87
46)	2,4-Dinitrotoluene	17.27	165	999251	44.67	#	1
47)	Diethylphthalate	17.89	149	3064875	51.15		98
48)	Fluorene	17.90	166	2489530	48.15		99
49)	4-Chlorophenyl-phenylether	17.94	204	1140202	48.18		100
50)	4-Nitroaniline	18.25	138	3967701	184.97		96
53)	4,6-Dinitro-2-Methylphenol	18.28	198	2450244	167.27	#	77
54)	N-Nitrosodiphenylamine (1)	18.31	169	1883201	47.20		96
55)	4-Bromophenyl-phenylether	19.10	248	649298	43.56		98
56)	Hexachlorobenzene	19.41	284	724105	43.00		96
57)	Pentachlorophenol	19.92	266	1825246	150.74		98
58)	Phenanthrene	20.20	178	3774464	48.98		98
59)	Anthracene	20.30	178	3877118	48.48		99
60)	Carbazole	20.76	167	3795802	48.59		99
61)	Di-n-butylphthalate	21.78	149	5676604	49.26		98
62)	Fluoranthene	23.06	202	4001757	48.37		95
64)	Pyrene	23.58	202	4165560	48.03		94
66)	Butylbenzylphthalate	25.37	149	2649307	46.83		89
67)	Benzo(a)anthracene	26.49	228	3715268	47.31		97
68)	3,3'-Dichlorobenzidine	26.54	252	1186478	41.36		98
69)	Chrysene	26.60	228	3368405	46.82		99
70)	bis(2-Ethylhexyl)phthalate	26.82	149	3611344	48.90		100
72)	Di-n-octylphthalate	28.21	149	6170505	54.55	#	92
73)	Benzo(b)fluoranthene	28.94	252	3708531	53.17	#	96
74)	Benzo(k)fluoranthene	29.00	252	3091624	45.54	#	92
75)	Benzo(a)pyrene	29.64	252	3284923	48.83	#	94
76)	Indeno(1,2,3-cd)pyrene	32.64	276	3562950	48.84	#	62
77)	Dibenz(a,h)anthracene	32.70	278	2812659	49.73		94
78)	Benzo(g,h,i)perylene	33.50	276	3068809	48.58	#	92

(#) = qualifier out of range (m) = manual integration

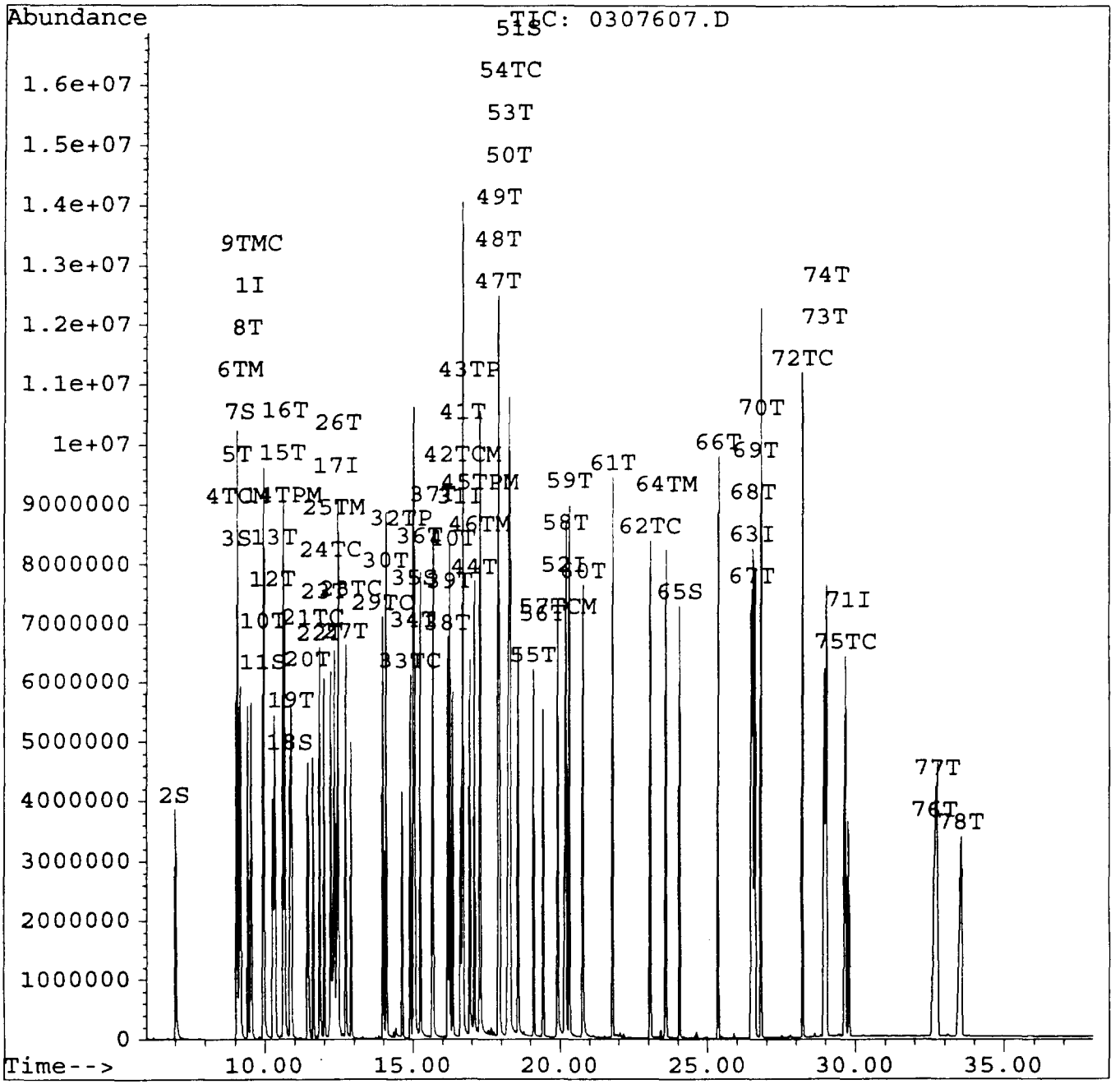
Quantitation Report

2 2 0573

Data File : c:\hpchem\1\data\9503076.b\0307607.d
Acq On : 7 Mar 95 2:26 pm
Sample : SSTD100 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 16:04 1995

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 16:04:08 1995
Response via : Single Level Calibration



Quantitation Report

Data File : c:\hpchem\1\data\9503076.b\0307607.d
Acq On : 7 Mar 95 2:26 pm
Sample : SSTD100 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 16:04 1995

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 16:04:08 1995
Response via : Continuing Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.52	152	818510	40.00	0.01
17) Naphthalene-d8	12.43	136	3537249	40.00	0.00
31) Acenaphthene-d10	16.63	164	1979771	40.00	0.00
52) Phenanthrene-d10	20.16	188	2896863	40.00	0.01
63) Chrysene-d12	26.55	240	2402331	40.00	0.02
71) Perylene-d12	29.78	264	2844375	40.00	0.01
System Monitoring Compounds					%Recovery
2) 2-Fluorophenol	7.01	112	2897422	92.83	232.074%
3) Phenol-d5	9.06	99	4113918	88.84	222.105%
7) 2-Chlorophenol-d4	9.16	132	3106472	89.93	224.826%
11) 1,2-Dichlorobenzene-d4	9.93	152	1559307	87.61	219.033%
18) Nitrobenzene-d5	10.86	82	3554407	92.97	232.413%
35) 2-Fluorobiphenyl	15.07	172	5121390	89.30	223.250%
51) 2,4,6-Tribromophenol	18.59	330	1632023	184.77	153.973%
65) Terphenyl-d14	24.07	244	5088601	91.12	227.806%
Target Compounds					Qvalue
4) Phenol	9.08	94	4020834	84.26	# 86
5) Bis(2-Chloroethyl)ether	9.09	93	2912738	83.53	# 86
6) 2-Chlorophenol	9.19	128	3059728	89.18	99
8) 1,3-Dichlorobenzene	9.43	146	2727132	88.23	98
9) 1,4-Dichlorobenzene	9.56	146	2828281	88.07	99
10) 1,2-Dichlorobenzene	9.96	146	2497203	84.49	99
12) 2,2'-oxybis(1-Chloropropan	10.27	45	4913979	87.16	# 57
13) 2-Methylphenol	10.34	108	3087195	89.55	# 93
14) N-Nitroso-di-n-propylamine	10.62	70	2537846	80.17	87
15) Hexachloroethane	10.63	117	1120281	83.07	92
16) 4-Methylphenol	10.68	108	3284512	86.95	99
19) Nitrobenzene	10.90	77	3462507	91.72	97
20) Isophorone	11.45	82	7374173	90.73	100
21) 2-Nitrophenol	11.63	139	1893920	94.21	97
22) 2,4-Dimethylphenol	11.85	107	2903400	87.78	98
23) bis(2-Chloroethoxy)methane	12.00	93	4017871	89.93	99
24) 2,4-Dichlorophenol	12.23	162	2315885	94.16	96
25) 1,2,4-Trichlorobenzene	12.35	180	2144322	90.70	98
26) Naphthalene	12.47	128	8444434	86.98	99
27) 4-Chloroaniline	12.73	127	4039609	88.79	99
28) Hexachlorobutadiene	12.91	225	1055018	91.74	99
29) 4-Chloro-3-methylphenol	13.99	107	2999495	89.26	91
30) 2-Methylnaphthalene	14.11	142	5548858	87.46	99
32) Hexachlorocyclopentadiene	14.64	237	1208502	111.93	99
33) 2,4,6-Trichlorophenol	14.91	196	1588158	93.27	99
34) 2,4,5-Trichlorophenol	15.03	196	3376654	192.04	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

2 2 0575

Data File : c:\hpchem\1\data\9503076.b\0307607.d
Acq On : 7 Mar 95 2:26 pm
Sample : SSTD100 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 16:04 1995

Vial: 7
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

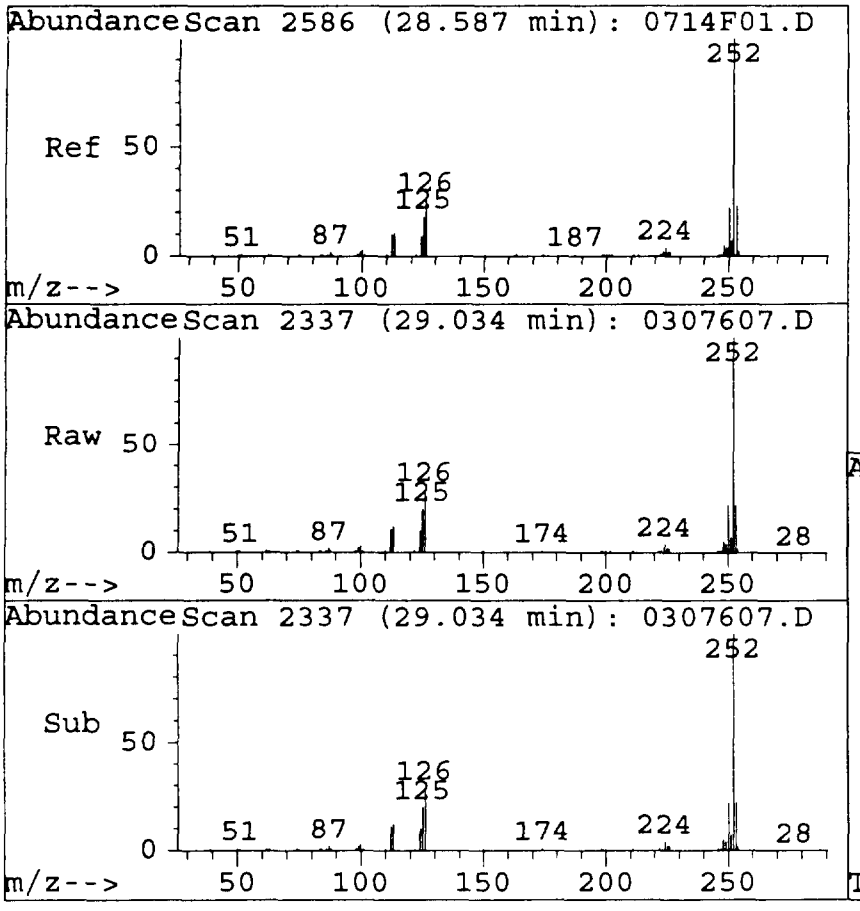
Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 16:04:08 1995
Response via : Continuing Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	2-Chloronaphthalene	15.26	162	4913375	90.15		97
37)	2-Nitroaniline	15.70	65	4732604	190.06		89
38)	Dimethylphthalate	16.20	163	6312233	88.45		99
39)	Acenaphthylene	16.27	152	8769887	87.78		99
40)	2,6-Dinitrotoluene	16.36	165	1649981	92.44		96
41)	3-Nitroaniline	16.73	138	4018790	179.01		93
42)	Acenaphthene	16.71	153	4611054	86.06		99
43)	2,4-Dinitrophenol	16.96	184	2325181	195.27		87
44)	Dibenzofuran	17.10	168	7000012	89.00		99
45)	4-Nitrophenol	17.30	109	1893157	187.78		91
46)	2,4-Dinitrotoluene	17.29	165	2168836	89.26	#	26
47)	Diethylphthalate	17.91	149	6065160	81.38		99
48)	Fluorene	17.92	166	4990174	82.43		99
49)	4-Chlorophenyl-phenylether	17.96	204	2407598	86.84		100
50)	4-Nitroaniline	18.28	138	4459667	184.90		97
53)	4,6-Dinitro-2-Methylphenol	18.31	198	2707381	183.26	#	58
54)	N-Nitrosodiphenylamine (1)	18.33	169	3862813	85.05		88
55)	4-Bromophenyl-phenylether	19.12	248	1423732	90.92		98
56)	Hexachlorobenzene	19.43	284	1565375	89.64		96
57)	Pentachlorophenol	19.94	266	2124562	193.05		98
58)	Phenanthrene	20.22	178	7937644	87.20		99
59)	Anthracene	20.32	178	8153696	87.20		99
60)	Carbazole	20.79	167	8016817	87.57		99
61)	Di-n-butylphthalate	21.80	149	11495461	83.97		99
62)	Fluoranthene	23.08	202	8246384	85.44		95
64)	Pyrene	23.61	202	8602341	92.01		94
66)	Butylbenzylphthalate	25.38	149	5550123	93.34		91
67)	Benzo(a)anthracene	26.51	228	7671015	91.99		98
68)	3,3'-Dichlorobenzidine	26.56	252	2437242	91.52		97
69)	Chrysene	26.63	228	6939087	91.61		98
70)	bis(2-Ethylhexyl)phthalate	26.83	149	7254407	89.50		99
72)	Di-n-octylphthalate	28.23	149	12256375	84.45	#	92
73)	Benzo(b)fluoranthene	28.97	252	7562954	86.71	#	94
74)	Benzo(k)fluoranthene	29.03	252	6559365	90.08	m	94
75)	Benzo(a)pyrene	29.67	252	6938031	89.25	#	95
76)	Indeno(1,2,3-cd)pyrene	32.69	276	7870746	93.96	m	90
77)	Dibenz(a,h)anthracene	32.77	278	6027267	91.14		95
78)	Benzo(g,h,i)perylene	33.58	276	6651960	92.09	#	91

3/7/95

(#) = qualifier out of range (m) = manual integration

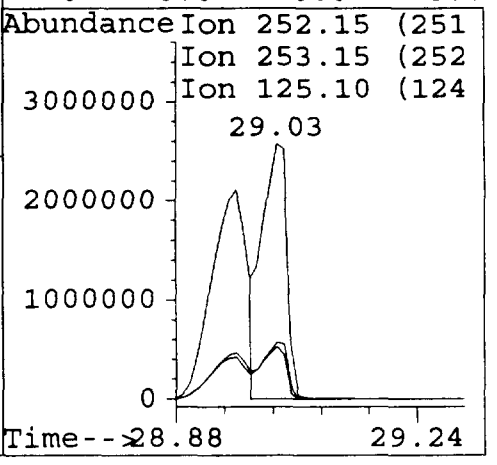
3/7/95 695



#74
Benzo(k)fluoranthene
Concen: 90.08 m
RT: 29.03 min Scan# 2337
Delta R.T. 0.03 min
Lab File: 0307607.D
Acq: 7 Mar 95 2:26 pm

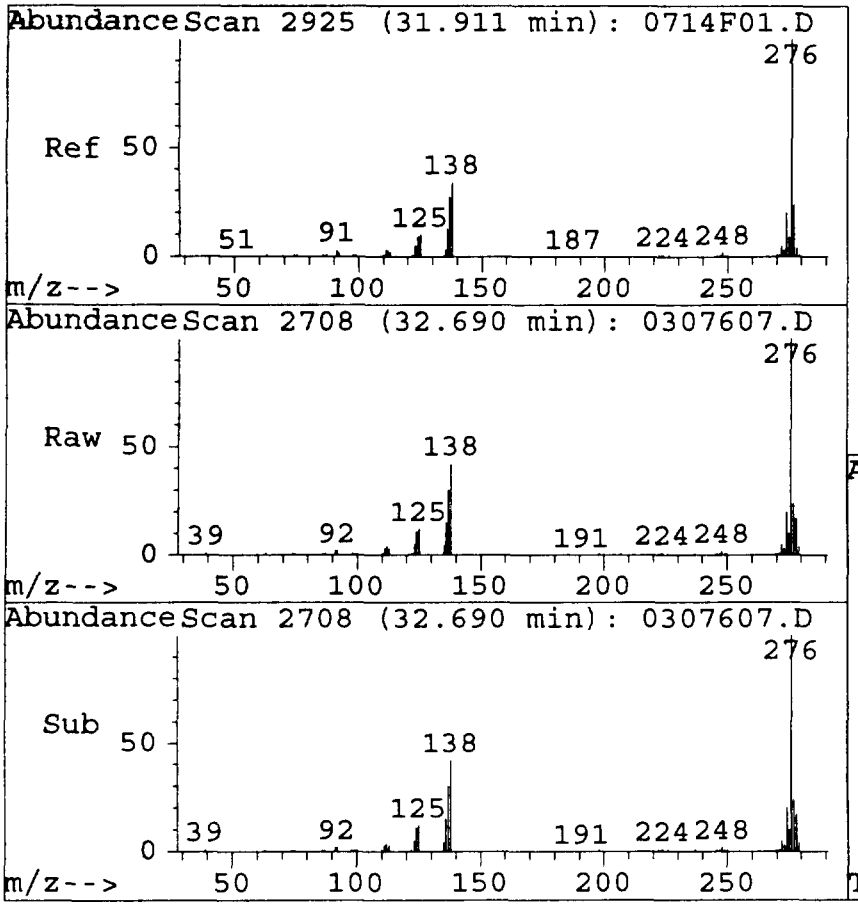
Tgt Ion:252.15 Resp: 6559365

Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.3	27.4
125	20.4	12.5	18.8#
0	0.0	0.0	0.0



2 2 0576

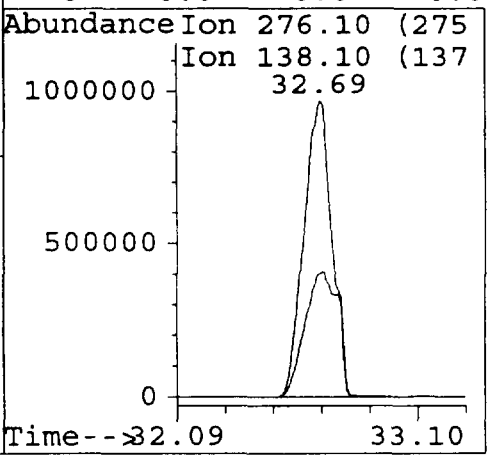
3/7/95 [illegible]



#76
Indeno(1,2,3-cd)pyrene
Concen: 93.96 m
RT: 32.69 min Scan# 2708
Delta R.T. 0.05 min
Lab File: 0307607.D
Acq: 7 Mar 95 2:26 pm

Tgt Ion:276.1 Resp: 7870746

Ion	Ratio	Lower	Upper
276	100		
138	41.6	24.5	36.8#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



2 2

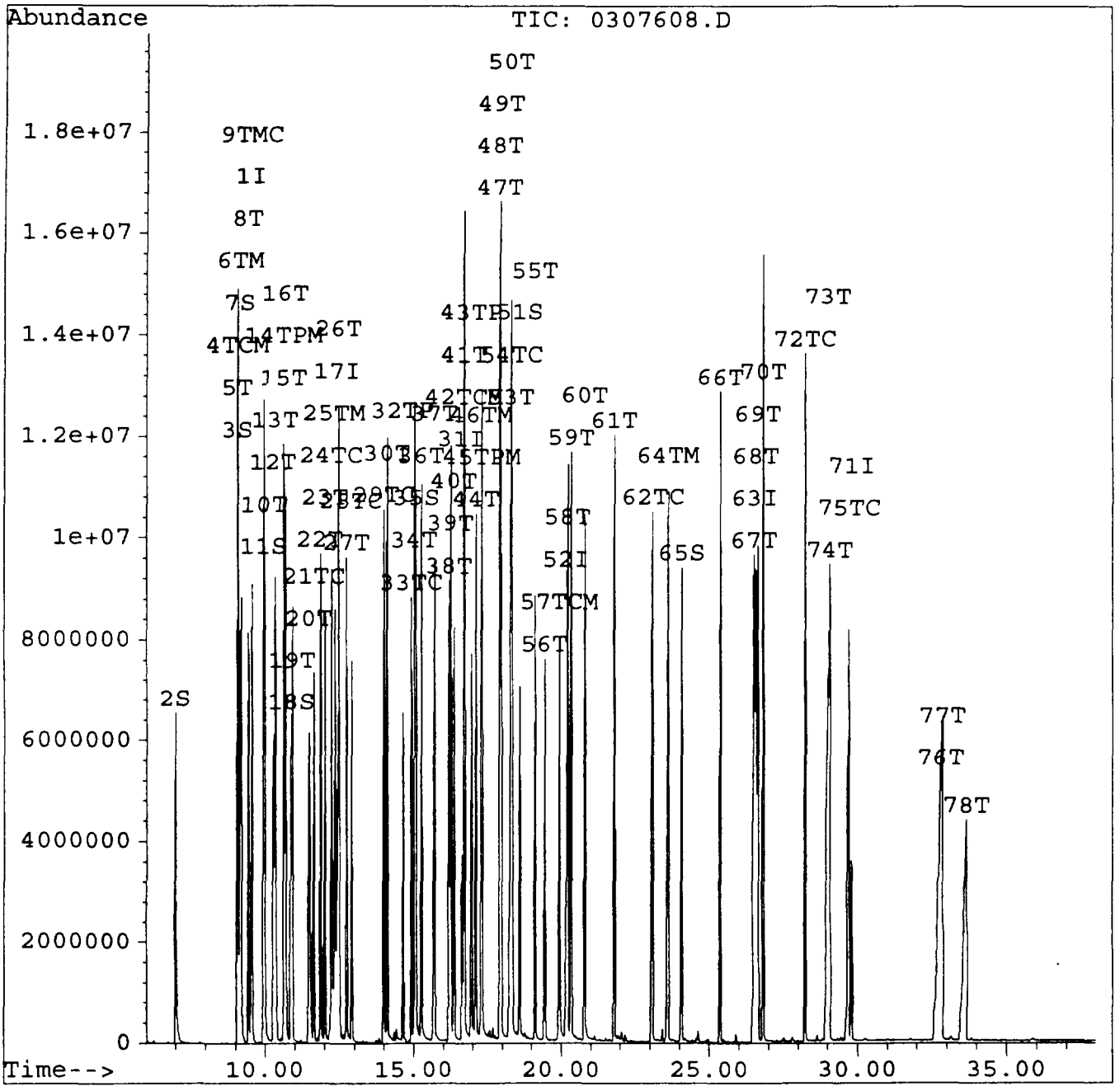
Quantitation Report

2 2 0573

Data File : c:\hpchem\1\data\9503076.b\0307608.d
Acq On : 7 Mar 95 3:13 pm
Sample : SSTD160 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 16:02 1995

Vial: 8
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 16:04:08 1995
Response via : Single Level Calibration



Quantitation Report

2 2 0579

Data File : c:\hpchem\1\data\9503076.b\0307608.d
Acq On : 7 Mar 95 3:13 pm
Sample : SSTD160 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 16:02 1995

Vial: 8
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 16:04:08 1995
Response via : Continuing Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.52	152	822279	40.00 m	0.01
17) Naphthalene-d8	12.44	136	3416899	40.00	0.02
31) Acenaphthene-d10	16.63	164	1980957	40.00	0.00
52) Phenanthrene-d10	20.16	188	2856998	40.00	0.02
63) Chrysene-d12	26.56	240	2276388	40.00	0.03
71) Perylene-d12	29.80	264	2757021	40.00	0.03

System Monitoring Compounds					%Recovery
2) 2-Fluorophenol	7.00	112	4793269	152.87 m	382.165%
3) Phenol-d5	9.07	99	6531489	140.40 m	351.011%
7) 2-Chlorophenol-d4	9.16	132	5012289	144.44 m	361.093%
11) 1,2-Dichlorobenzene-d4	9.95	152	2454961	137.31 m	343.264%
18) Nitrobenzene-d5	10.87	82	5681238	153.83	384.565%
35) 2-Fluorobiphenyl	15.09	172	7766122	135.33	338.336%
51) 2,4,6-Tribromophenol	18.60	330	1904879	215.53	179.608%
65) Terphenyl-d14	24.09	244	7698063	145.48	363.693%

Target Compounds						Qvalue
4) Phenol	9.10	94	6109534	127.44	m	86
5) Bis(2-Chloroethyl)ether	9.10	93	4380463	125.04	m	85
6) 2-Chlorophenol	9.20	128	4834850	140.27	m	99
8) 1,3-Dichlorobenzene	9.43	146	4275212	137.67	m	99
9) 1,4-Dichlorobenzene	9.56	146	4426590	137.20	m	99
10) 1,2-Dichlorobenzene	9.98	146	3805996	128.19	m	98
12) 2,2'-oxybis(1-Chloropropan	10.28	45	7718742	136.28	m	59
13) 2-Methylphenol	10.34	108	4925422	142.22	m	93
14) N-Nitroso-di-n-propylamine	10.65	70	3895910	122.51	m	87
15) Hexachloroethane	10.63	117	1712762	126.42	m	94
16) 4-Methylphenol	10.69	108	5203352	137.12	m	100
19) Nitrobenzene	10.92	77	5413786	148.46		96
20) Isophorone	11.48	82	12013228	153.02		100
21) 2-Nitrophenol	11.64	139	3054278	157.28		97
22) 2,4-Dimethylphenol	11.87	107	4529286	141.77		98
23) bis(2-Chloroethoxy)methane	12.02	93	6349763	147.13		99
24) 2,4-Dichlorophenol	12.24	162	3700481	155.76		96
25) 1,2,4-Trichlorobenzene	12.36	180	3388099	148.35		99
26) Naphthalene	12.49	128	12444409	132.69		99
27) 4-Chloroaniline	12.74	127	6359562	144.70		99
28) Hexachlorobutadiene	12.91	225	1670524	150.39		98
29) 4-Chloro-3-methylphenol	14.00	107	4608425	141.97		94
30) 2-Methylnaphthalene	14.12	142	8514585	138.93		100
32) Hexachlorocyclopentadiene	14.64	237	2062075	190.87		99
33) 2,4,6-Trichlorophenol	14.93	196	2508684	147.24		100
34) 2,4,5-Trichlorophenol	15.05	196	3902611	221.81		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : c:\hpchem\1\data\9503076.b\0307608.d
Acq On : 7 Mar 95 3:13 pm
Sample : SSTD160 SVCLP 310-E IEA MSD6
Misc :
Quant Time: Mar 7 16:02 1995

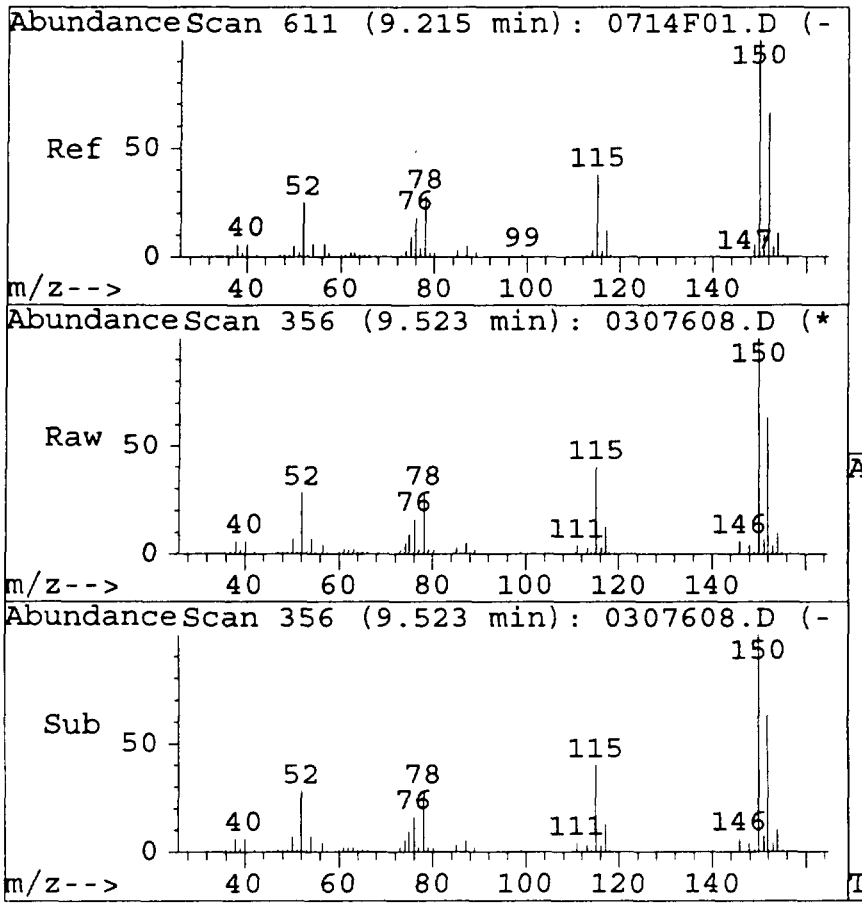
Vial: 8
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 16:04:08 1995
Response via : Continuing Calibration

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	2-Chloronaphthalene	15.28	162	7674995	140.74		97
37)	2-Nitroaniline	15.71	65	5680852	228.01		89
38)	Dimethylphthalate	16.21	163	9939812	139.20		99
39)	Acenaphthylene	16.27	152	13602605	136.07		99
40)	2,6-Dinitrotoluene	16.39	165	2684873	150.32		97
41)	3-Nitroaniline	16.74	138	4466738	198.85		93
42)	Acenaphthene	16.72	153	6978521	130.17		99
43)	2,4-Dinitrophenol	16.97	184	2877744	241.53		87
44)	Dibenzofuran	17.12	168	10802669	137.26		98
45)	4-Nitrophenol	17.32	109	2261311	224.17		90
46)	2,4-Dinitrotoluene	17.32	165	3474038	142.89	#	43
47)	Diethylphthalate	17.93	149	8408700	112.76		99
48)	Fluorene	17.95	166	7054514	116.46		99
49)	4-Chlorophenyl-phenylether	17.98	204	3519293	126.86		99
50)	4-Nitroaniline	18.31	138	4874140	201.96		97
53)	4,6-Dinitro-2-Methylphenol	18.33	198	3047172	209.14	#	44
54)	N-Nitrosodiphenylamine (1)	18.34	169	5893664	131.58	#	86
55)	4-Bromophenyl-phenylether	19.12	248	2235370	144.74		98
56)	Hexachlorobenzene	19.45	284	2434456	141.35		95
57)	Pentachlorophenol	19.94	266	2606962	240.19		98
58)	Phenanthrene	20.23	178	12239487	136.33		99
59)	Anthracene	20.34	178	12281875	133.18		100
60)	Carbazole	20.80	167	12273349	135.94		98
61)	Di-n-butylphthalate	21.81	149	16716439	123.81		99
62)	Fluoranthene	23.10	202	12620566	132.59		95
64)	Pyrene	23.62	202	13105702	147.93		94
66)	Butylbenzylphthalate	25.40	149	8522217	151.25		91
67)	Benzo(a)anthracene	26.53	228	11668844	147.68		98
68)	3,3'-Dichlorobenzidine	26.59	252	3712908	147.14		98
69)	Chrysene	26.66	228	10501636	146.31		98
70)	bis(2-Ethylhexyl)phthalate	26.84	149	10849080	141.26		99
72)	Di-n-octylphthalate	28.25	149	17552738	124.77	#	91
73)	Benzo(b)fluoranthene	29.00	252	12742532	150.72	m	96
74)	Benzo(k)fluoranthene	29.07	252	8787931	124.50	m	95
75)	Benzo(a)pyrene	29.71	252	10855529	144.07	#	95
76)	Indeno(1,2,3-cd)pyrene	32.77	276	12448305	153.32	#	65
77)	Dibenz(a,h)anthracene	32.84	278	9520346	148.52	#	94
78)	Benzo(g,h,i)perylene	33.64	276	10670930	152.41	#	91

(#) = qualifier out of range (m) = manual integration

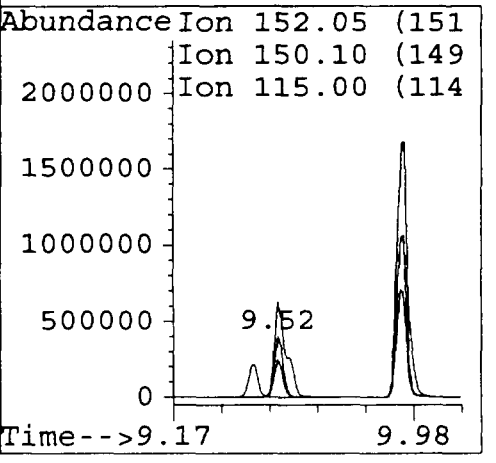
3/7/95 099



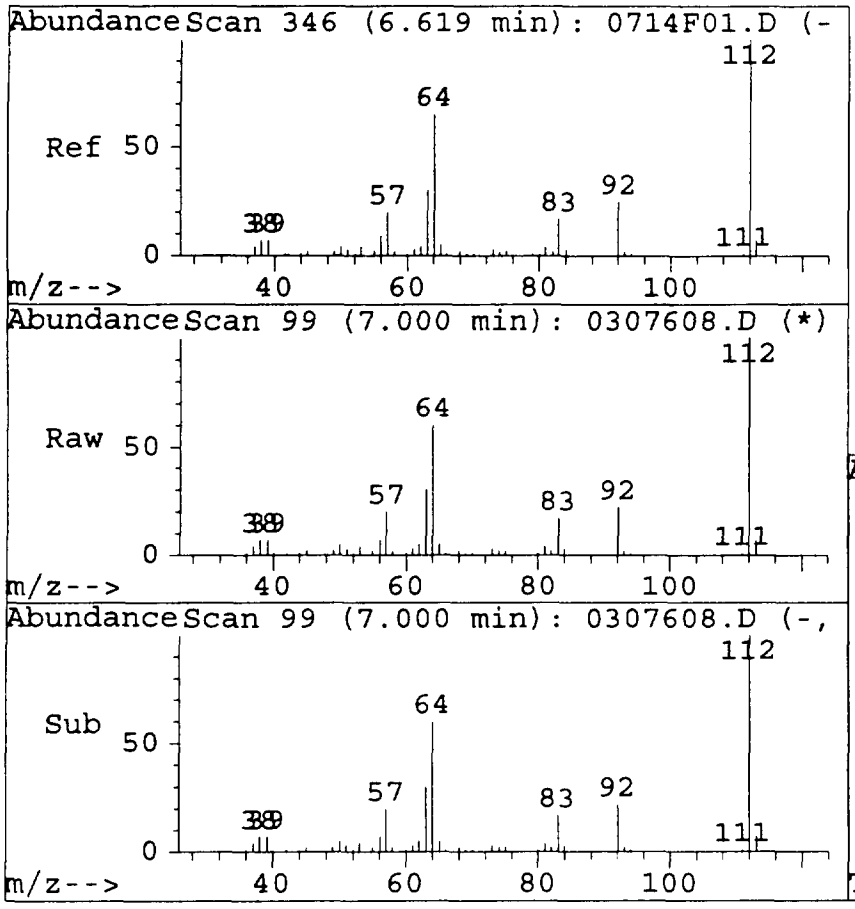
#1
1,4-dichlorobenzene-d4
Concen: 40.00 m
RT: 9.52 min Scan# 356
Delta R.T. 0.01 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

Tgt Ion:152.05 Resp: 822279

Ion	Ratio	Lower	Upper
152	100		
150	158.0	133.7	200.6
115	62.6	44.9	67.3
0	0.0	0.0	0.0



2 2 0581

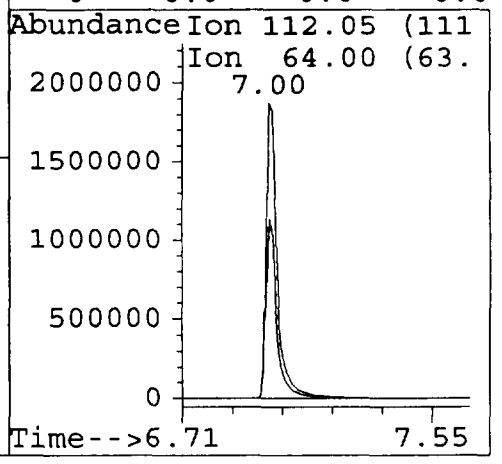


3/7/95 [illegible]

#2
2-Fluorophenol
Concen: 152.87 m
RT: 7.00 min Scan# 99
Delta R.T. -0.01 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

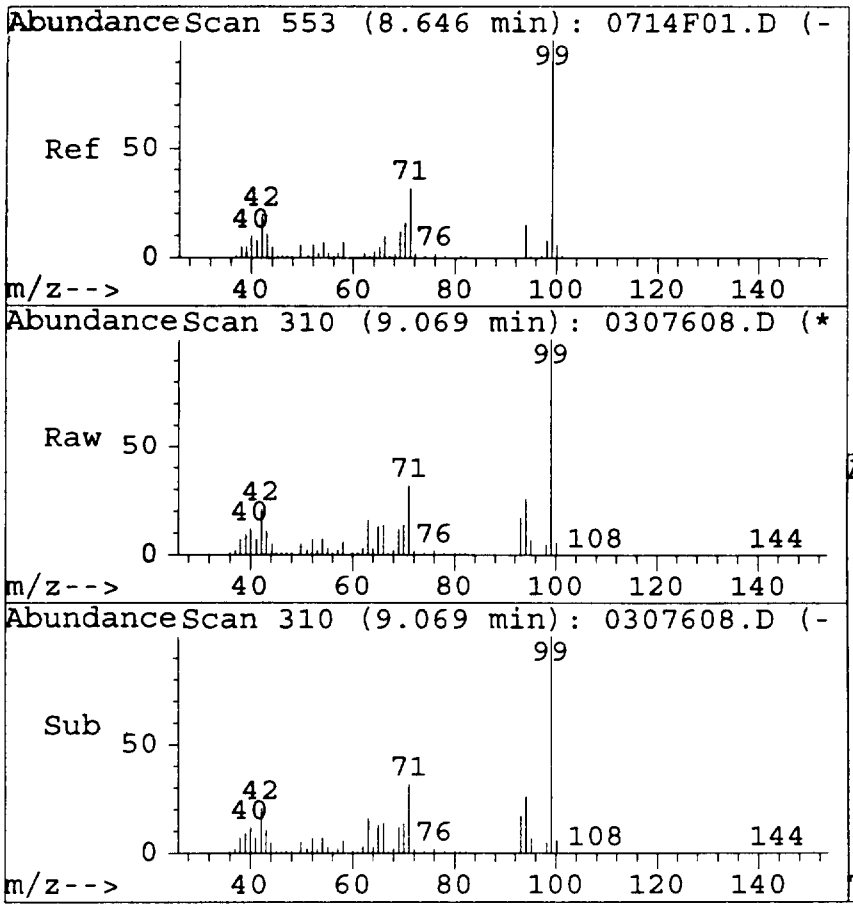
Tgt Ion:112.05 Resp: 4793269

Ion	Ratio	Lower	Upper
112	100		
64	59.1	44.9	67.3
0	0.0	0.0	0.0
0	0.0	0.0	0.0



2 2 0582

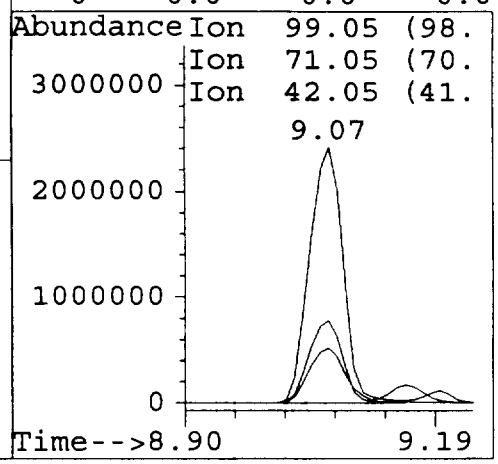
3/7/95



#3
Phenol-d5
Concen: 140.40 m
RT: 9.07 min Scan# 310
Delta R.T. 0.03 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

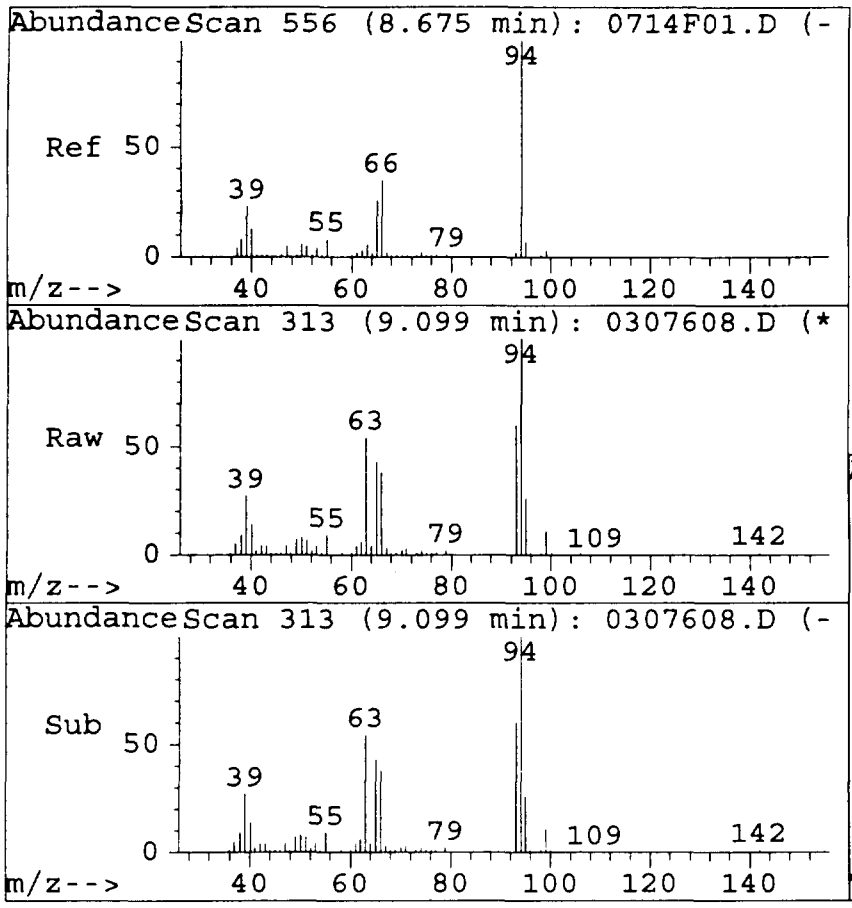
Tgt Ion:99.05 Resp: 6531489

Ion	Ratio	Lower	Upper
99	100		
71	33.0	26.0	38.9
42	23.2	15.5	23.2
0	0.0	0.0	0.0



2 2 0583

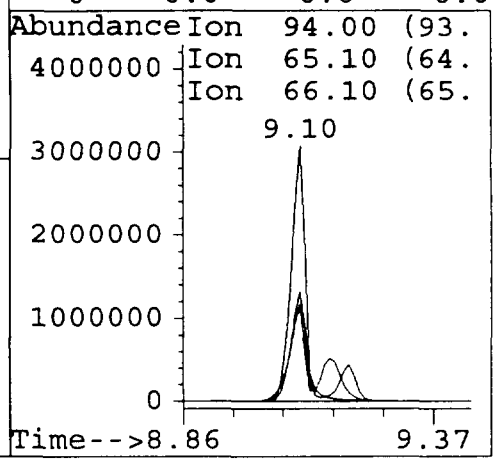
3/7/95 697



#4
Phenol
Concen: 127.44 m
RT: 9.10 min Scan# 313
Delta R.T. 0.03 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

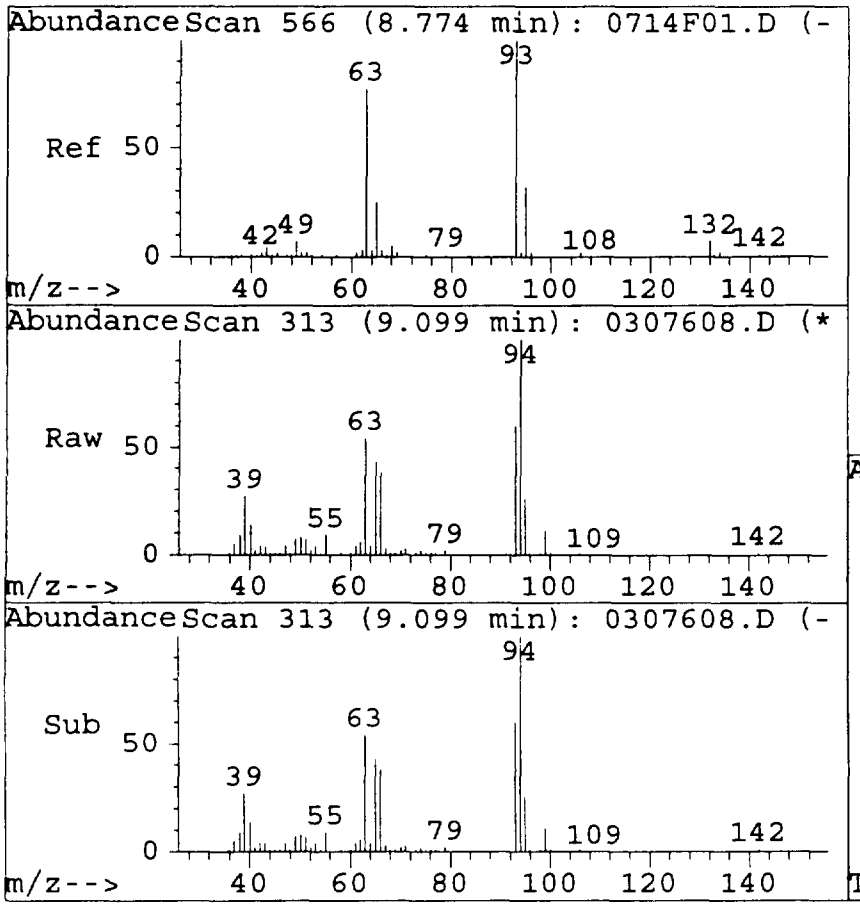
Tgt Ion:94 Resp: 6109534

Ion	Ratio	Lower	Upper
94	100		
65	45.2	22.1	33.2#
66	40.9	32.3	48.4
0	0.0	0.0	0.0



2 2 0584

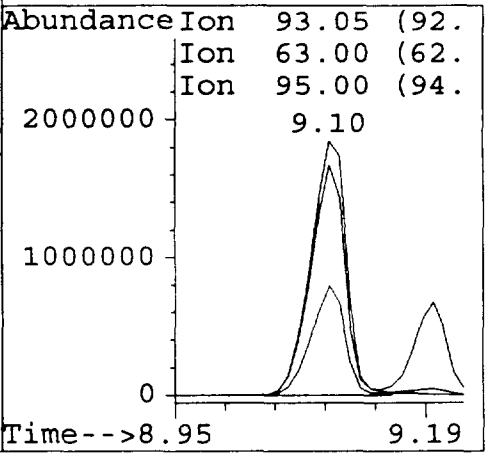
3/7/95 595



#5
Bis(2-Chloroethyl)ether
Concen: 125.04 m
RT: 9.10 min Scan# 313
Delta R.T. 0.03 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

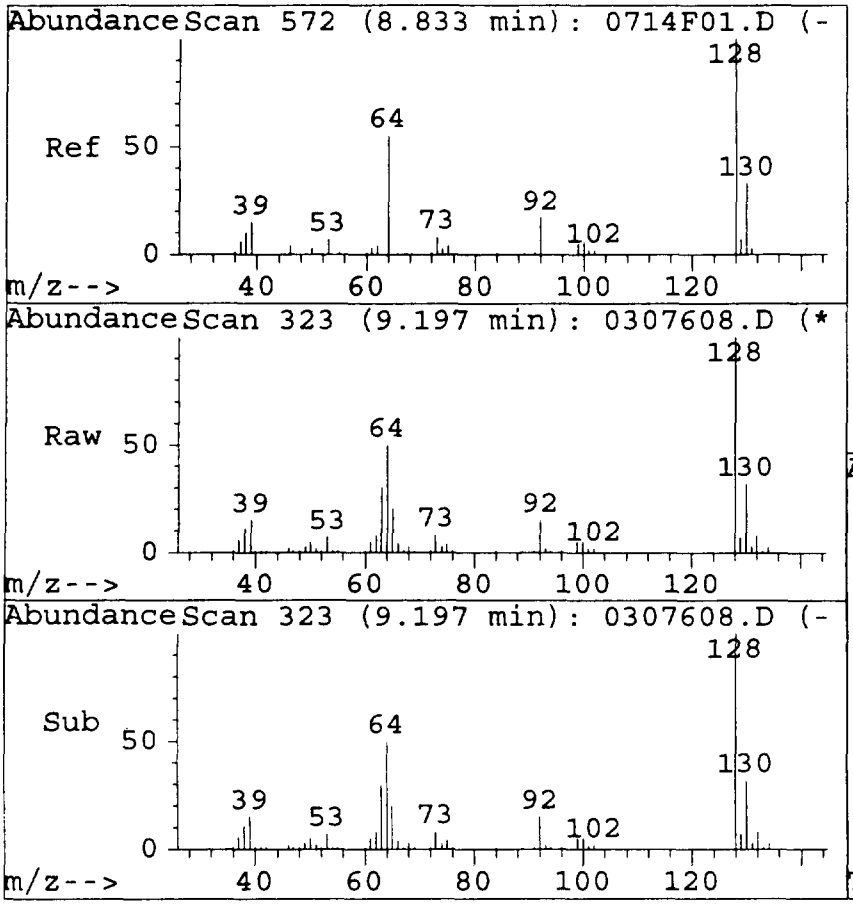
Tgt Ion:93.05 Resp: 4380463

Ion	Ratio	Lower	Upper
93	100		
63	87.5	59.9	89.8
95	41.8	26.8	40.1#
0	0.0	0.0	0.0



2 2 0565

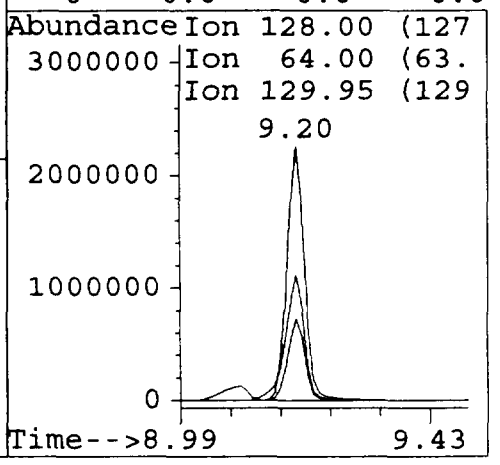
3/7/95 EGS



#6
2-Chlorophenol
Concen: 140.27 m
RT: 9.20 min Scan# 323
Delta R.T. 0.02 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

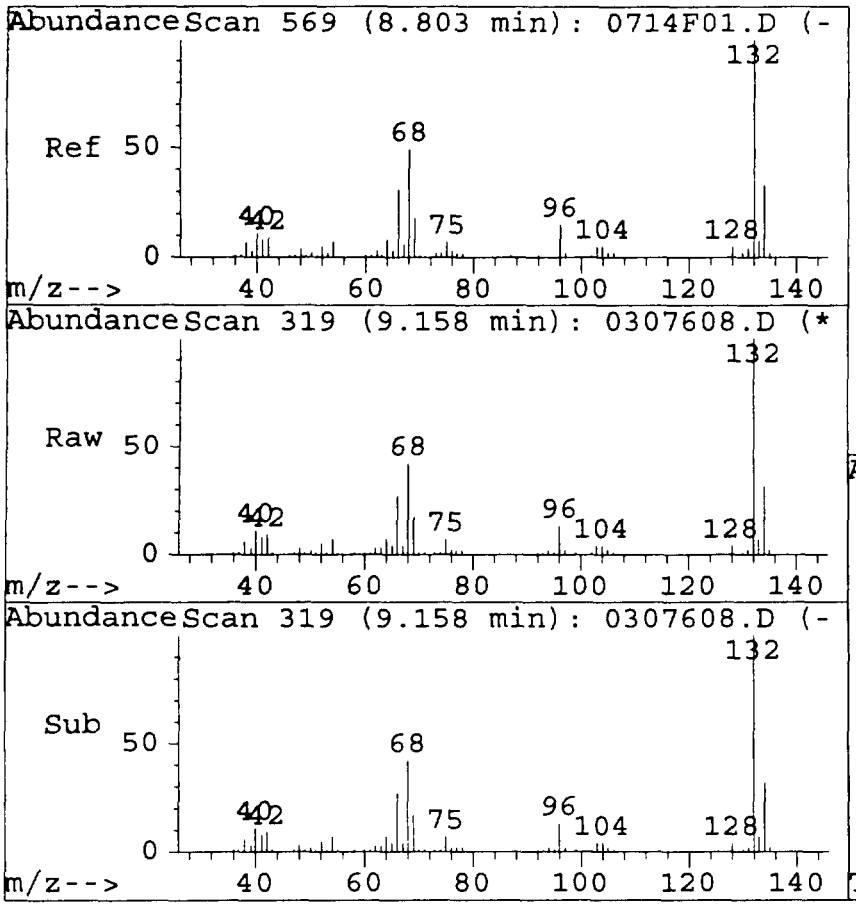
Tgt Ion:128 Resp: 4834850

Ion	Ratio	Lower	Upper
128	100		
64	53.9	42.4	63.5
130	32.0	26.1	39.1
0	0.0	0.0	0.0



2 2 0586

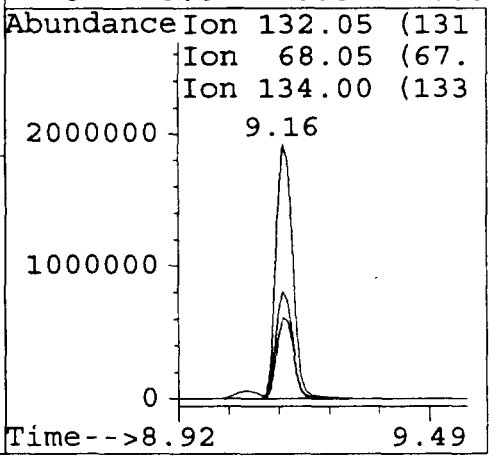
3/7/95 GGS



#7
2-Chlorophenol-d4
Concen: 144.44 m
RT: 9.16 min Scan# 319
Delta R.T. 0.01 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

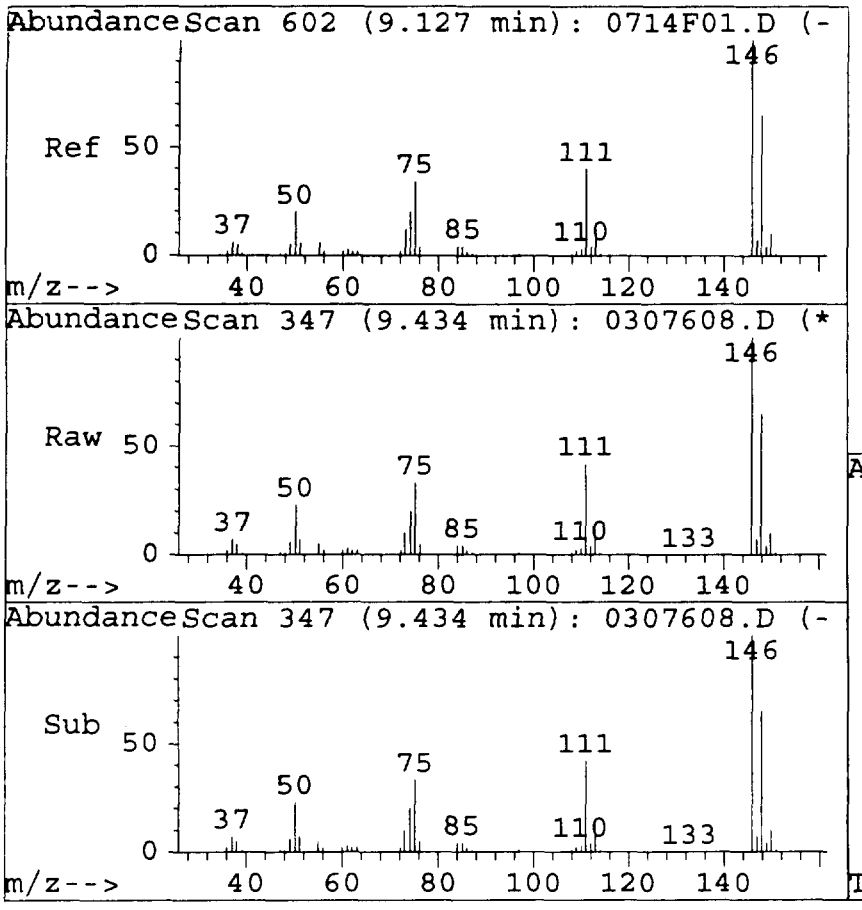
Tgt Ion:132.05 Resp: 5012289

Ion	Ratio	Lower	Upper
132	100		
68	41.8	32.2	48.3
134	32.1	26.1	39.2
0	0.0	0.0	0.0



2 2 0587

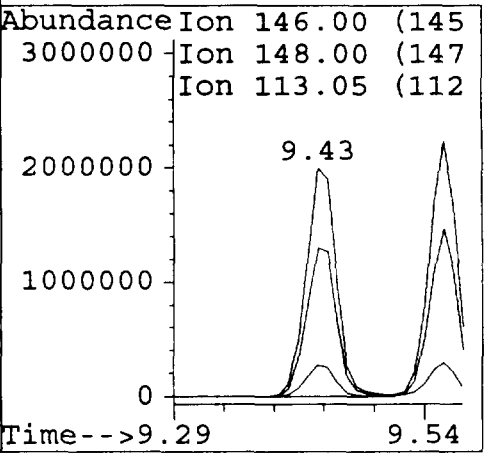
3/7/95 599



#8
1,3-Dichlorobenzene
Concen: 137.67 m
RT: 9.43 min Scan# 347
Delta R.T. 0.01 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

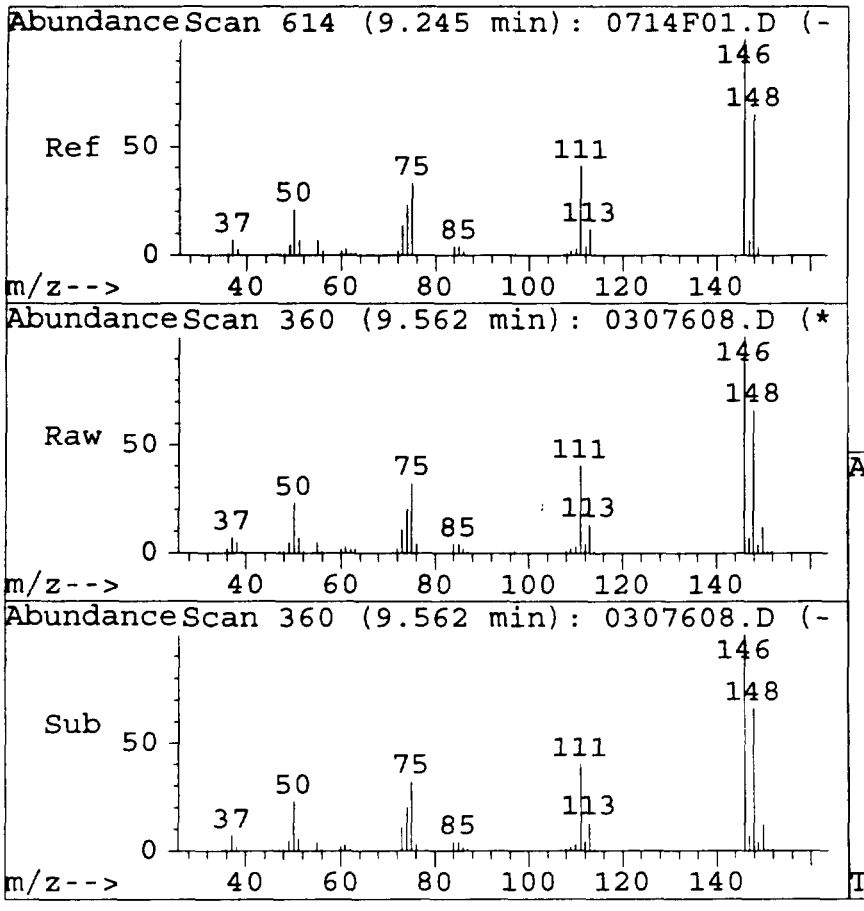
Tgt Ion:146 Resp: 4275212

Ion	Ratio	Lower	Upper
146	100		
148	65.3	52.9	79.4
113	13.4	10.1	15.2
0	0.0	0.0	0.0



2 2 0583

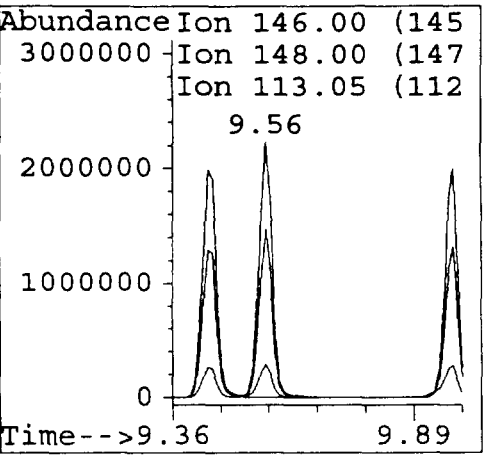
3/7/95 0589



#9
1,4-Dichlorobenzene
Concen: 137.20 m
RT: 9.56 min Scan# 360
Delta R.T. 0.01 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

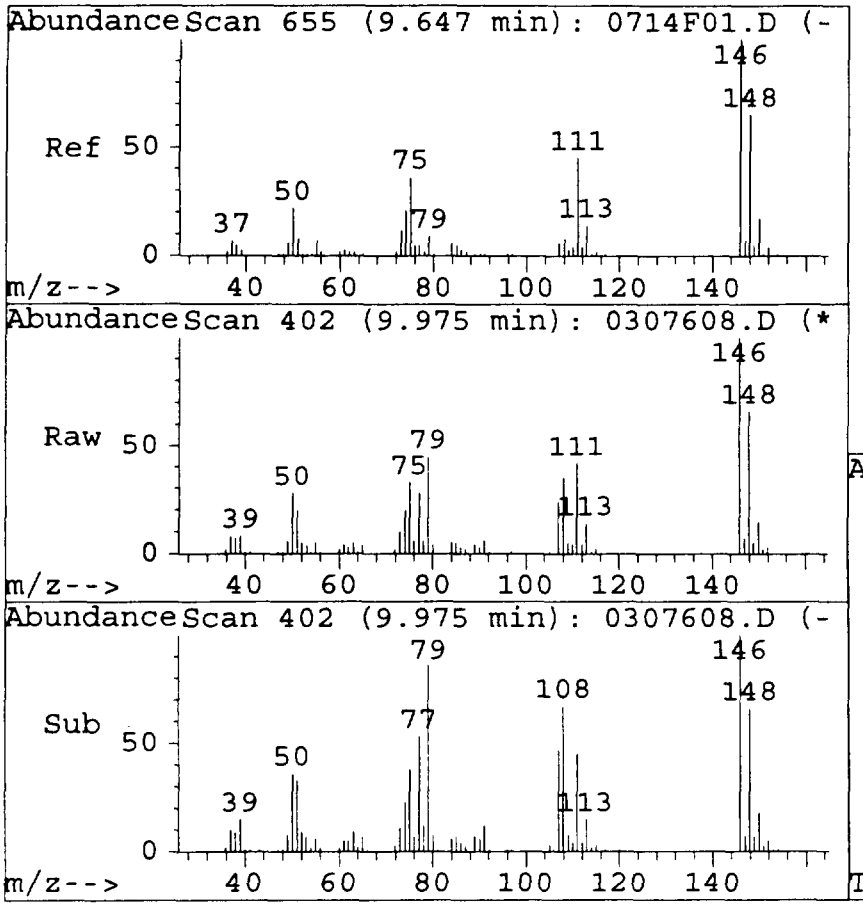
Tgt Ion:146 Resp: 4426590

Ion	Ratio	Lower	Upper
146	100		
148	65.4	52.9	79.4
113	13.5	11.3	17.0
0	0.0	0.0	0.0



2 2 0589

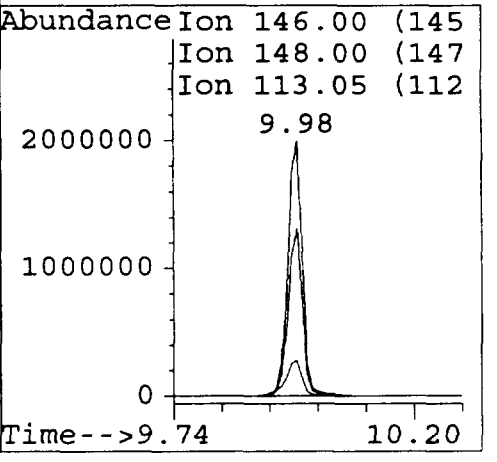
3/7/95 [illegible]



#10
1,2-Dichlorobenzene
Concen: 128.19 m
RT: 9.98 min Scan# 402
Delta R.T. 0.02 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

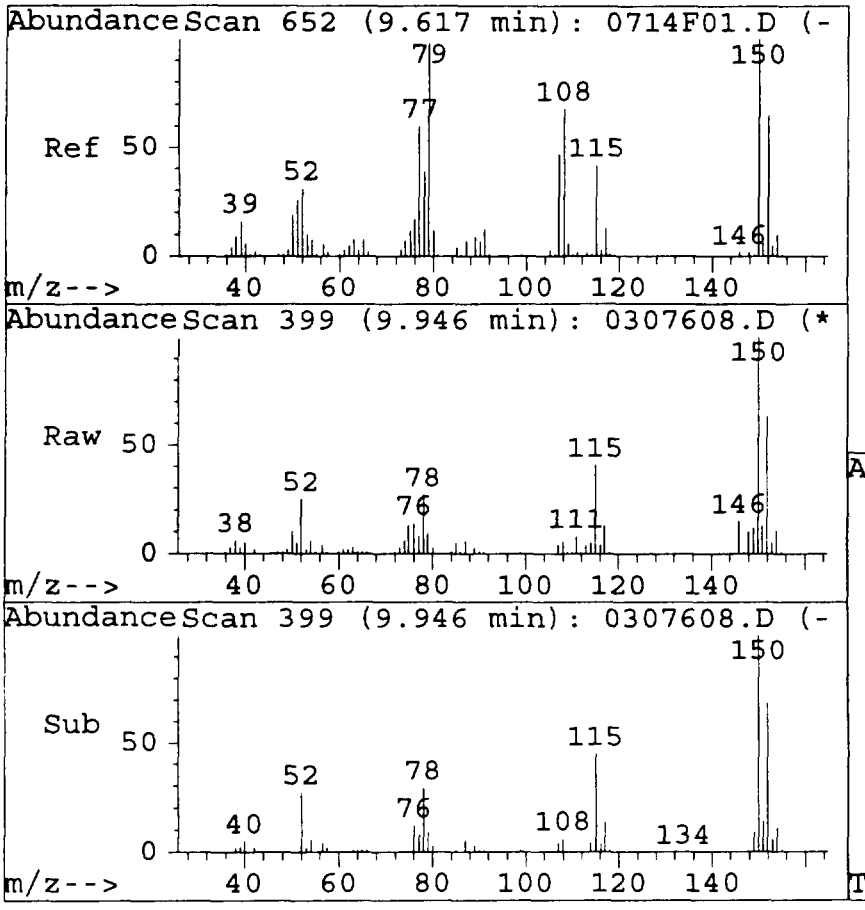
Tgt Ion:146 Resp: 3805996

Ion	Ratio	Lower	Upper
146	100		
148	65.7	51.7	77.5
113	16.1	11.7	17.6
0	0.0	0.0	0.0



2 2 0590

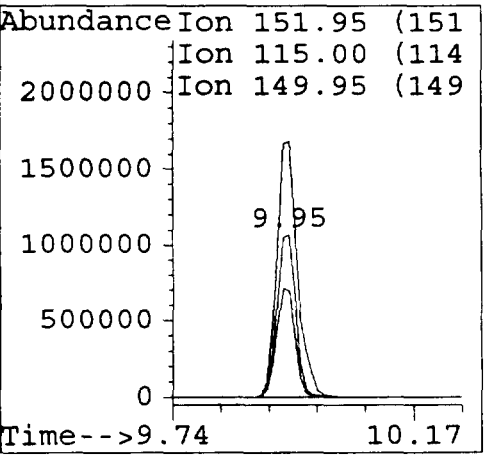
3/7/95 699



#11
1,2-Dichlorobenzene-d4
Concen: 137.31 m
RT: 9.95 min Scan# 399
Delta R.T. 0.02 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

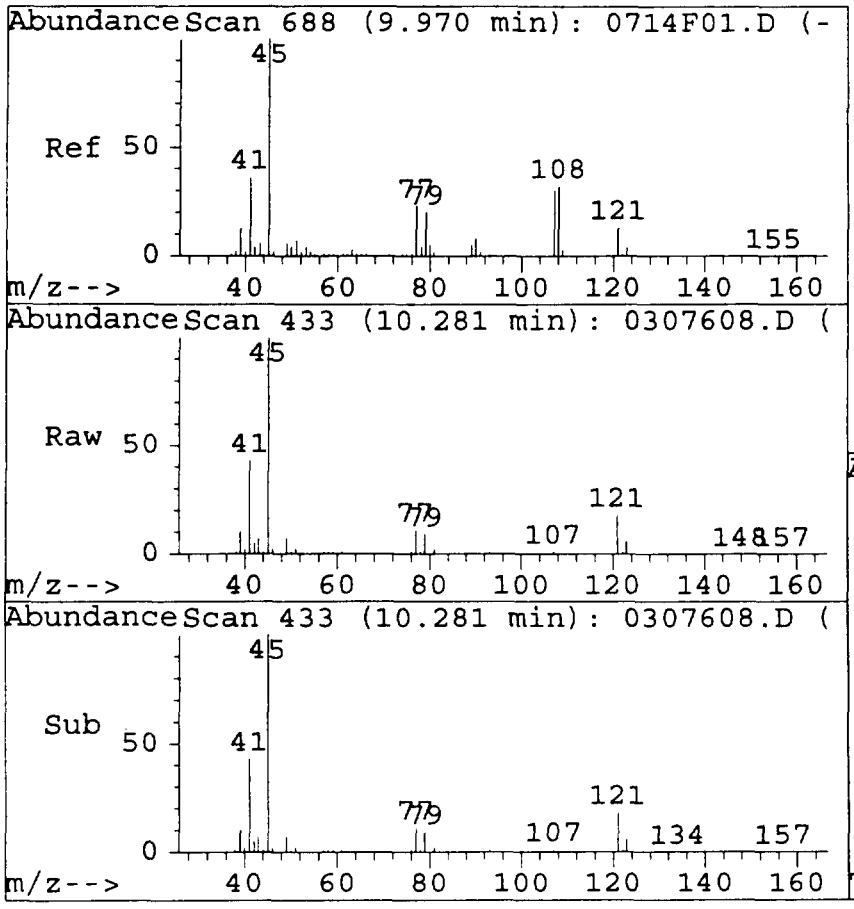
Tgt Ion:151.95 Resp: 2454961

Ion	Ratio	Lower	Upper
152	100		
115	66.5	49.7	74.5
150	172.3	136.1	204.1
0	0.0	0.0	0.0



2 2 0591

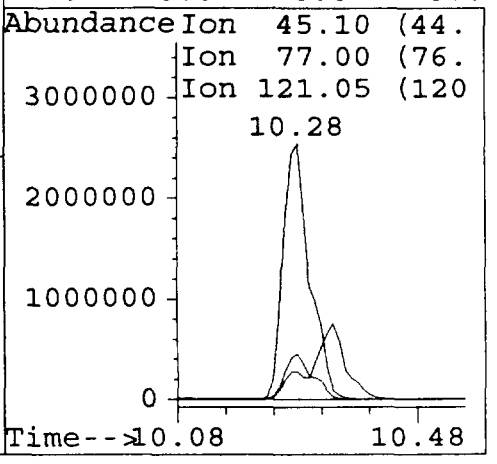
3/7/95 595



#12
2,2'-oxybis(1-Chloropropane)
Concen: 136.28 m
RT: 10.28 min Scan# 433
Delta R.T. 0.01 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

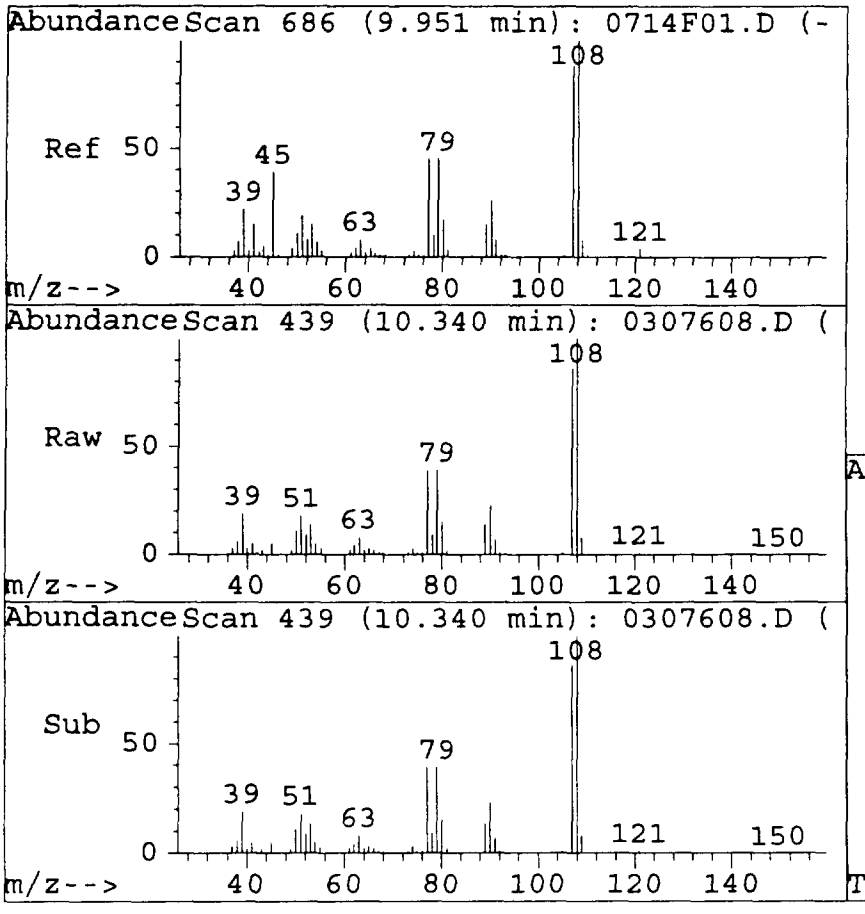
Tgt Ion:45.1 Resp: 7718742

Ion	Ratio	Lower	Upper
45	100		
77	9.7	38.1	57.2#
121	18.4	17.5	26.2
0	0.0	0.0	0.0



2 2 0592

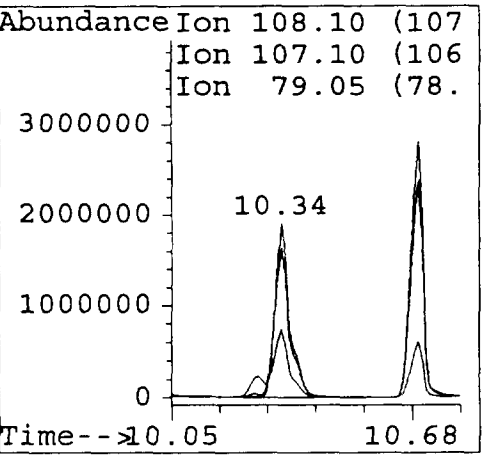
3/7/95 0595



#13
2-Methylphenol
Concen: 142.22 m
RT: 10.34 min Scan# 439
Delta R.T. 0.01 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

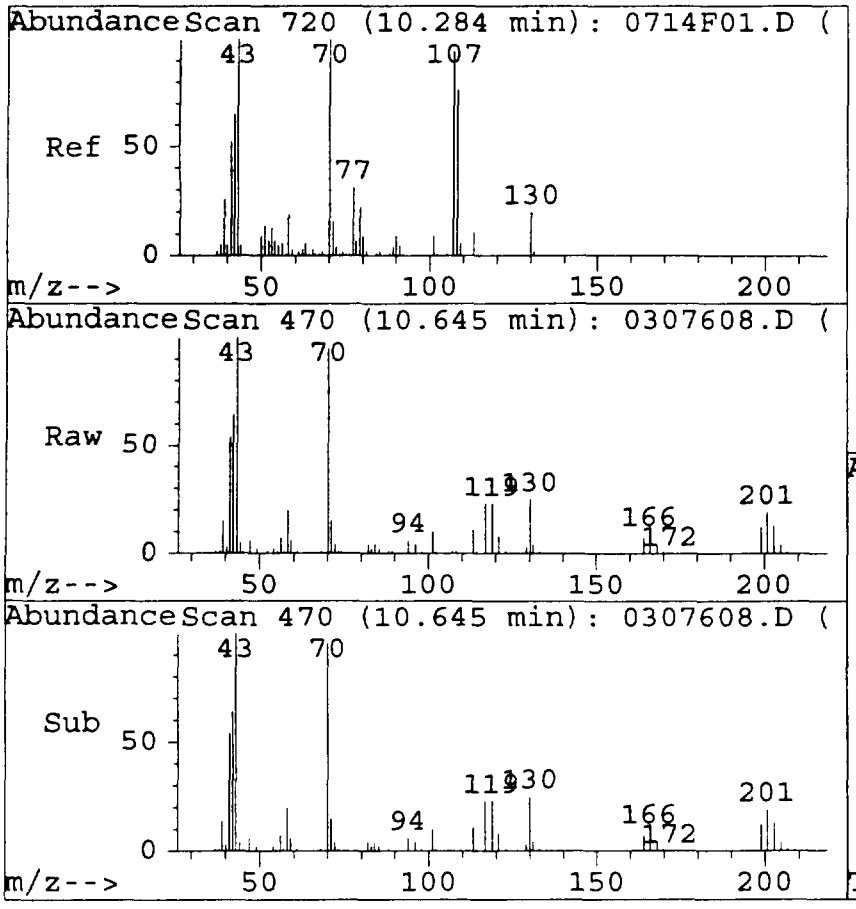
Tgt Ion:108.1 Resp: 4925422

Ion	Ratio	Lower	Upper
108	100		
107	91.4	73.2	109.7
79	40.7	43.1	64.6#
0	0.0	0.0	0.0



2 2 0593

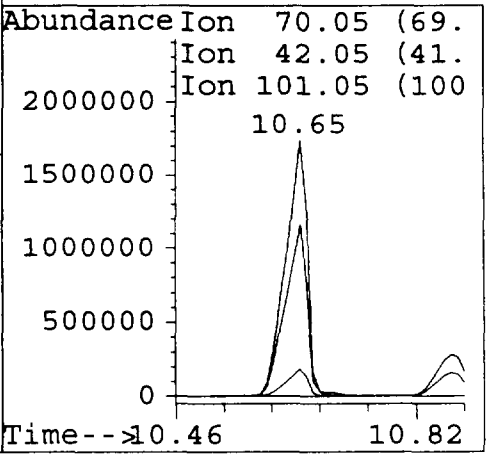
3/7/95 09



#14
N-Nitroso-di-n-propylamine
Concen: 122.51 m
RT: 10.65 min Scan# 470
Delta R.T. 0.05 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

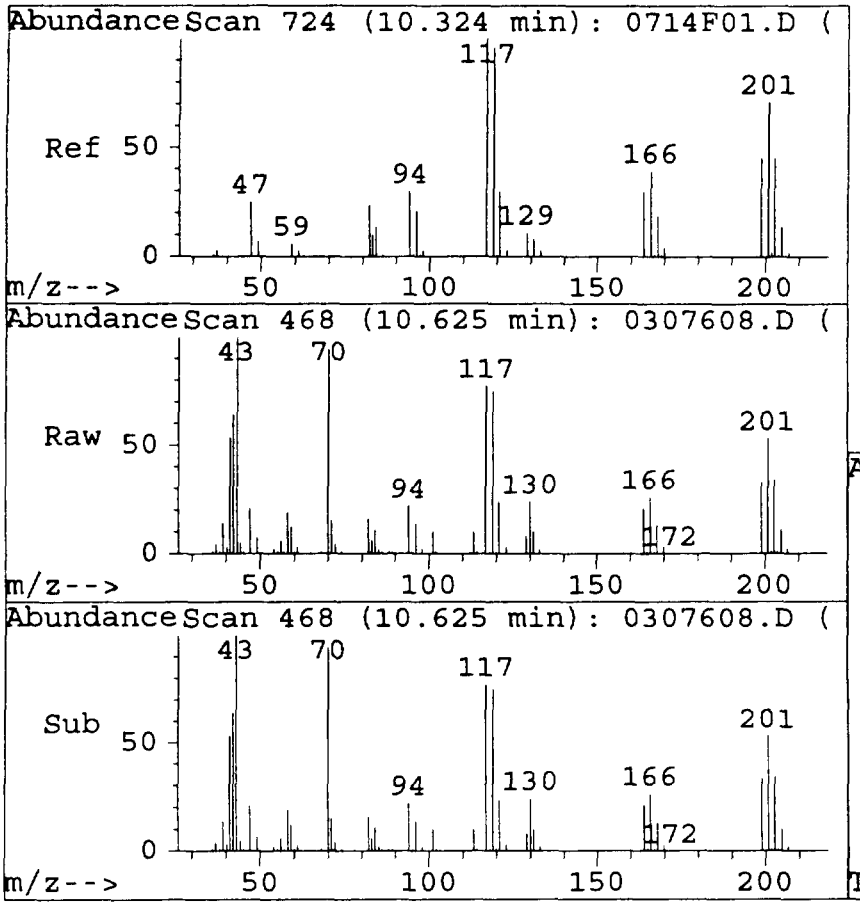
Tgt Ion:70.05 Resp: 3895910

Ion	Ratio	Lower	Upper
70	100		
42	68.3	45.8	68.7
101	10.7	8.4	12.5
0	0.0	0.0	0.0



2 2 0594

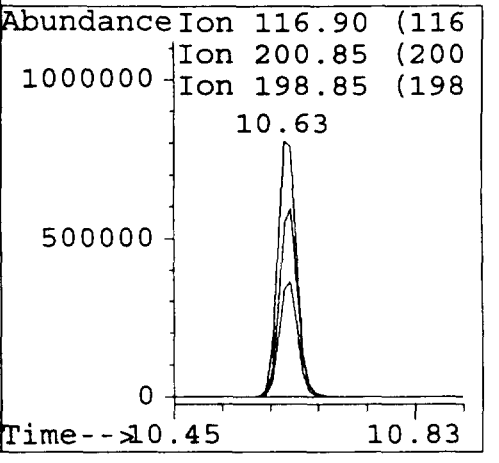
3/7/95 6 ?



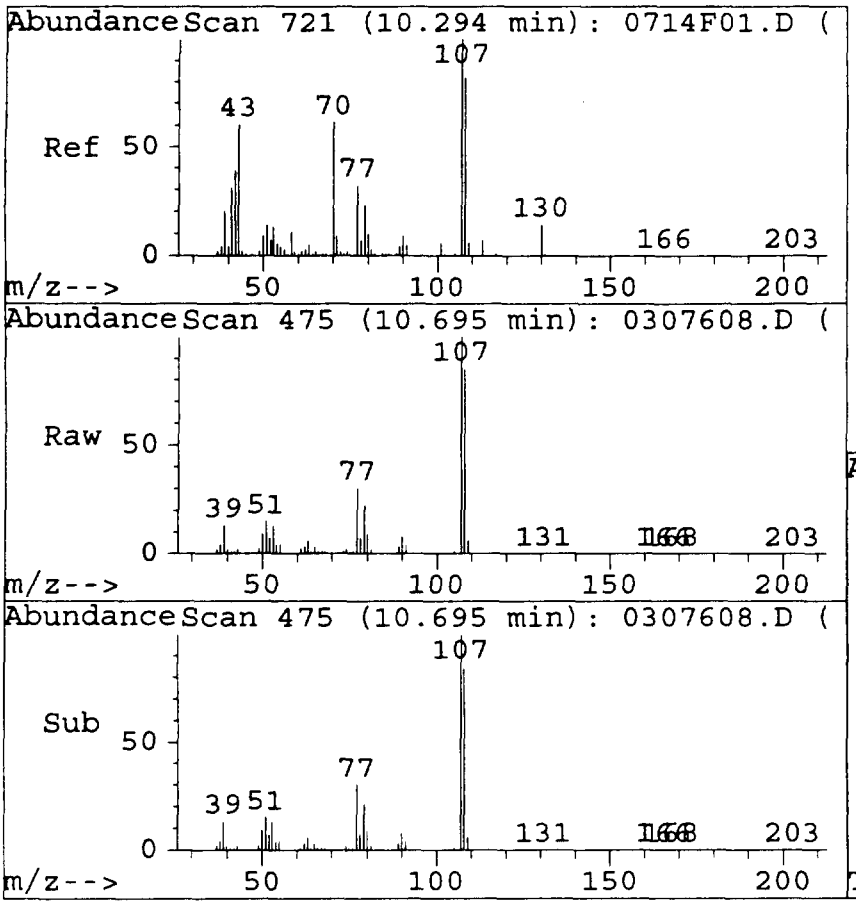
#15
Hexachloroethane
Concen: 126.42 m
RT: 10.63 min Scan# 468
Delta R.T. 0.00 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

Tgt Ion:116.9 Resp: 1712762

Ion	Ratio	Lower	Upper
117	100		
201	70.1	60.5	90.8
199	43.4	37.9	56.8
0	0.0	0.0	0.0



2 2 0595

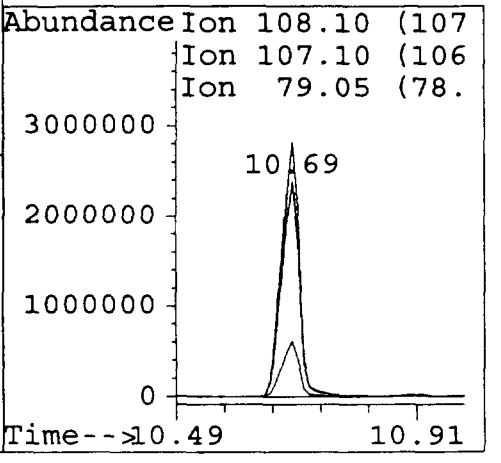


3/7/95 77

#16
4-Methylphenol
Concen: 137.12 m
RT: 10.69 min Scan# 475
Delta R.T. 0.03 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

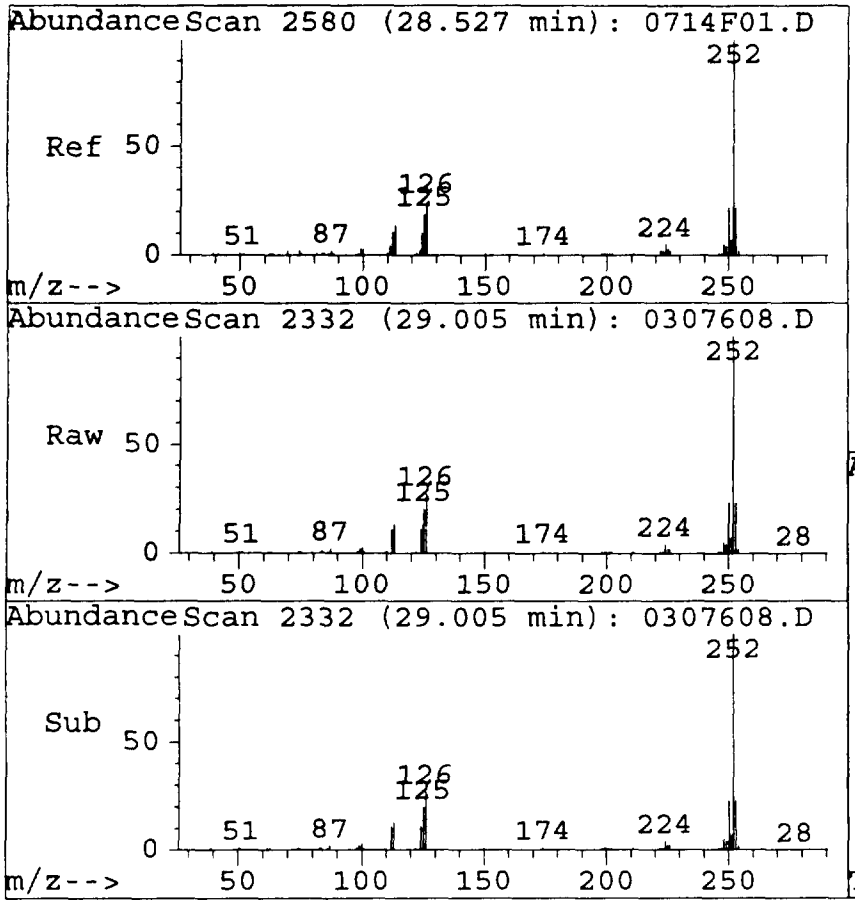
Tgt Ion:108.1 Resp: 5203352

Ion	Ratio	Lower	Upper
108	100		
107	118.1	94.3	141.4
79	25.0	20.6	30.9
0	0.0	0.0	0.0



2 2 0596

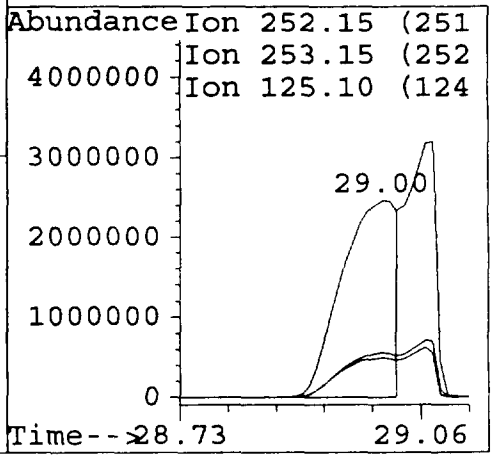
3/7/95 677



#73
Benzo(b)fluoranthene
Concen: 150.72 m
RT: 29.00 min Scan# 2332
Delta R.T. 0.06 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

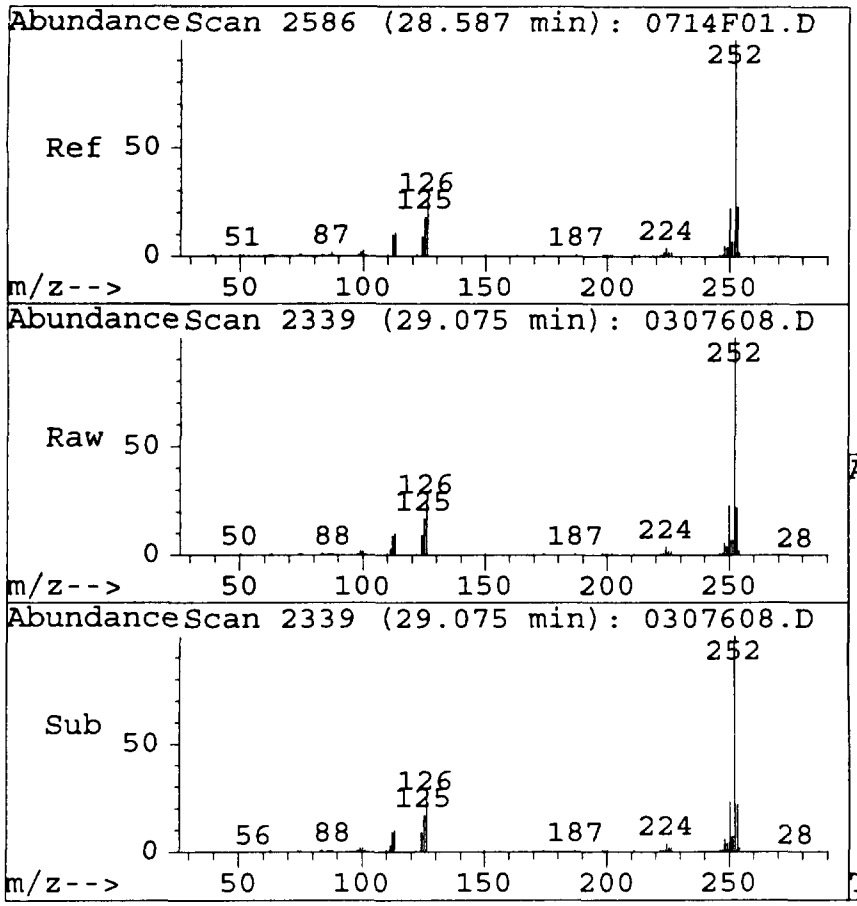
Tgt Ion:252.15 Resp:12742532

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.5	27.8
125	20.0	12.8	19.1#
0	0.0	0.0	0.0



2 2 0597

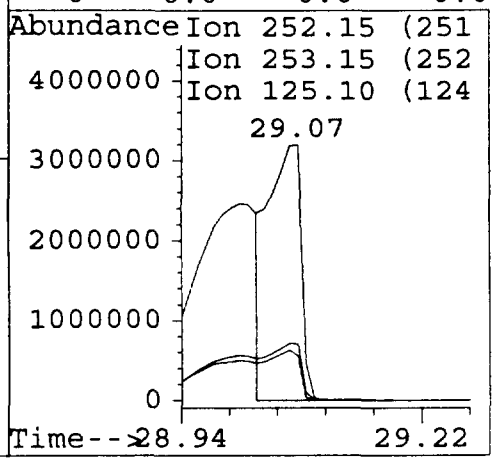
3/7/95 [illegible]



#74
Benzo(k)fluoranthene
Concen: 124.50 m
RT: 29.07 min Scan# 2339
Delta R.T. 0.07 min
Lab File: 0307608.D
Acq: 7 Mar 95 3:13 pm

Tgt Ion:252.15 Resp: 8787931

Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.3	27.4
125	17.2	12.5	18.8
0	0.0	0.0	0.0



2 2 0598

Response Factor Report MSD6

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M
Title :
Last Update : Tue Mar 07 16:04:08 1995
Response via : Continuing Calibration

Calibration Files
10 =0307605.D 20 =0307606.D 40 =0307604.D
100 =0307607.D 160 =0307608.D

		Compound	10	20	40	100	160	Avg	%RSD
1)	I	1,4-dichlorobenzene-d	----------ISTD----------						
2)	S	2-Fluorophenol	1.472	1.549	1.526	1.416	1.457	1.484	3.60
3)	S	Phenol-d5	2.292	2.305	2.263	2.010	1.986	2.171	7.32
4)	TCM	Phenol	2.400	2.410	2.332	1.965	1.858	2.193	11.93
5)	T	Bis(2-Chloroethyl)eth	1.801	1.804	1.704	1.423	1.332	1.613	13.69
6)	TM	2-Chlorophenol	1.716	1.711	1.677	1.495	1.470	1.614	7.51
7)	S	2-Chlorophenol-d4	1.711	1.736	1.688	1.518	1.524	1.635	6.47
8)	T	1,3-Dichlorobenzene	1.542	1.550	1.511	1.333	1.300	1.447	8.34
9)	TMC	1,4-Dichlorobenzene	1.651	1.604	1.569	1.382	1.346	1.510	9.09
10)	T	1,2-Dichlorobenzene	1.496	1.493	1.444	1.220	1.157	1.362	11.83
11)	S	1,2-Dichlorobenzene-d	0.882	0.877	0.870	0.762	0.746	0.827	8.12
12)	T	2,2'-oxybis(1-Chlorop	2.844	2.839	2.755	2.401	2.347	2.637	9.24
13)	T	2-Methylphenol	1.706	1.721	1.671	1.509	1.497	1.621	6.73
14)	TPM	N-Nitroso-di-n-propyl	1.590	1.618	1.547	1.240	1.184	1.436	14.39#
15)	T	Hexachloroethane	0.672	0.675	0.659	0.547	0.521	0.615	12.12
16)	T	4-Methylphenol	1.860	1.873	1.846	1.605	1.582	1.753	8.34
17)	I	Naphthalene-d8	----------ISTD----------						
18)	S	Nitrobenzene-d5	0.445	0.440	0.432	0.402	0.416	0.427	4.17
19)	T	Nitrobenzene	0.450	0.437	0.427	0.392	0.396	0.420	6.09
20)	T	Isophorone	0.951	0.940	0.919	0.834	0.879	0.905	5.33
21)	TC	2-Nitrophenol	0.221	0.223	0.227	0.214	0.223	0.222	2.17
22)	T	2,4-Dimethylphenol	0.379	0.376	0.374	0.328	0.331	0.358	7.14
23)	T	bis(2-Chloroethoxy)me	0.527	0.525	0.505	0.454	0.465	0.495	6.86
24)	TC	2,4-Dichlorophenol	0.282	0.286	0.278	0.262	0.271	0.276	3.42
25)	TM	1,2,4-Trichlorobenzen	0.275	0.273	0.267	0.242	0.248	0.261	5.72
26)	T	Naphthalene	1.152	1.140	1.098	0.955	0.911	1.051	10.57
27)	T	4-Chloroaniline	0.526	0.527	0.514	0.457	0.465	0.498	6.85
28)	TC	Hexachlorobutadiene	0.136	0.133	0.130	0.119	0.122	0.128	5.58
29)	TC	4-Chloro-3-methylphen	0.388	0.384	0.380	0.339	0.337	0.366	6.90
30)	T	2-Methylnaphthalene	0.751	0.729	0.717	0.627	0.623	0.690	8.71
31)	I	Acenaphthene-d10	----------ISTD----------						
32)	TP	Hexachlorocyclopentad	0.129	0.175	0.218	0.244	0.260	0.205	25.93#
33)	TC	2,4,6-Trichlorophenol	0.333	0.336	0.344	0.321	0.317	0.330	3.40
34)	T	2,4,5-Trichlorophenol	0.369	0.370	0.356	0.341	0.328	0.353	5.14
35)	S	2-Fluorobiphenyl	1.251	1.193	1.159	1.035	0.980	1.123	10.03
36)	T	2-Chloronaphthalene	1.130	1.113	1.101	0.993	0.969	1.061	7.04
37)	T	2-Nitroaniline	0.524	0.514	0.503	0.478	0.478	0.499	4.16
38)	T	Dimethylphthalate	1.474	1.453	1.442	1.275	1.254	1.380	7.66
39)	T	Acenaphthylene	2.072	2.054	2.019	1.772	1.717	1.927	8.75
40)	T	2,6-Dinitrotoluene	0.349	0.353	0.361	0.333	0.339	0.347	3.15
41)	T	3-Nitroaniline	0.478	0.477	0.454	0.406	0.376	0.438	10.34

(#) = Out of Range

Response Factor Report MSD6

Method : C:\HPCHEM\1\DATA\9503076.B\CLP691.M 2 2 0600
Title :
Last Update : Tue Mar 07 16:04:08 1995
Response via : Continuing Calibration

Calibration Files
10 =0307605.D 20 =0307606.D 40 =0307604.D
100 =0307607.D 160 =0307608.D

		Compound	10	20	40	100	160	Avg	%RSD
42)	TCM	Acenaphthene	1.203	1.138	1.083	0.932	0.881	1.047	13.07
43)	TP	2,4-Dinitrophenol	0.180	0.224	0.241	0.235	0.242	0.224	11.58#
44)	T	Dibenzofuran	1.664	1.626	1.589	1.414	1.363	1.531	8.76
45)	TPM	4-Nitrophenol	0.190	0.201	0.204	0.191	0.190	0.195	3.30#
46)	TM	2,4-Dinitrotoluene	0.503	0.503	0.491	0.438	0.438	0.475	7.06
47)	T	Diethylphthalate	1.629	1.602	1.506	1.225	1.061	1.405	17.79
48)	T	Fluorene	1.342	1.289	1.223	1.008	0.890	1.151	16.78
49)	T	4-Chlorophenyl-phenyl	0.581	0.574	0.560	0.486	0.444	0.529	11.48
50)	T	4-Nitroaniline	0.512	0.513	0.487	0.451	0.410	0.474	9.25
51)	S	2,4,6-Tribromophenol	0.185	0.184	0.178	0.165	0.160	0.175	6.54
52)	I	Phenanthrene-d10	----------ISTD----------						
53)	T	4,6-Dinitro-2-Methylp	0.191	0.210	0.204	0.187	0.178	0.194	6.73
54)	TC	N-Nitrosodiphenylamin	0.667	0.664	0.627	0.533	0.516	0.602	12.02
55)	T	4-Bromophenyl-phenyle	0.223	0.223	0.216	0.197	0.196	0.211	6.57
56)	T	Hexachlorobenzene	0.248	0.242	0.241	0.216	0.213	0.232	7.04
57)	TCM	Pentachlorophenol	0.125	0.146	0.152	0.147	0.152	0.144	7.74
3)	T	Phenanthrene	1.325	1.305	1.257	1.096	1.071	1.211	9.84
59)	T	Anthracene	1.337	1.334	1.291	1.126	1.075	1.233	10.02
60)	T	Carbazole	1.305	1.279	1.264	1.107	1.074	1.206	8.88
61)	T	Di-n-butylphthalate	2.034	1.966	1.890	1.587	1.463	1.788	13.95
62)	TC	Fluoranthene	1.407	1.386	1.333	1.139	1.104	1.274	11.16
63)	I	Chrysene-d12	----------ISTD----------						
64)	TM	Pyrene	1.541	1.531	1.557	1.432	1.439	1.500	3.96
65)	S	Terphenyl-d14	0.948	0.929	0.930	0.847	0.845	0.900	5.50
66)	T	Butylbenzylphthalate	1.001	0.980	0.990	0.924	0.936	0.966	3.53
67)	T	Benzo(a)anthracene	1.386	1.379	1.388	1.277	1.282	1.342	4.30
68)	T	3,3'-Dichlorobenzidin	0.486	0.456	0.443	0.406	0.408	0.440	7.71
69)	T	Chrysene	1.276	1.274	1.259	1.155	1.153	1.224	5.20
70)	T	bis(2-Ethylhexyl)phth	1.397	1.355	1.350	1.208	1.191	1.300	7.22
71)	I	Perylene-d12	----------ISTD----------						
72)	TC	Di-n-octylphthalate	2.142	2.128	2.041	1.724	1.592	1.925	13.08
73)	T	Benzo(b)fluoranthene	1.267	1.185	1.227	1.064	1.155	1.180	6.56
74)	T	Benzo(k)fluoranthene	1.054	1.115	1.023	0.922	0.797	0.982	12.73
75)	TC	Benzo(a)pyrene	1.120	1.108	1.087	0.976	0.984	1.055	6.59
76)	T	Indeno(1,2,3-cd)pyren	1.186	1.173	1.178	1.107	1.129	1.155	3.02
77)	T	Dibenz(a,h)anthracene	0.939	0.928	0.930	0.848	0.863	0.902	4.75
78)	T	Benzo(g,h,i)perylene	1.017	1.000	1.015	0.935	0.968	0.987	3.54

(#) = Out of Range

2 142

7LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Instrument ID: MSD6 Calibration Date: 03/08/95 Time: 1033

Lab File ID: 0308602.D Init. Calibration Date(s): 03/07/95

Init. Calibration Times: 1207 1513

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Phenol	2.193	2.336	0.800	-6.5	25.0
bis(2-Chloroethyl)ether	1.613	1.730	0.700	-7.3	25.0
2-Chlorophenol	1.614	1.682	0.700	-4.2	25.0
2-Methylphenol	1.621	1.693	0.700	-4.4	25.0
2,2'-oxybis(1-Chloropropane)	2.637	2.743		-4.0	
4-Methylphenol	1.753	1.864	0.600	-6.3	25.0
N-Nitroso-di-n-propylamine	1.436	1.585	0.500	-10.4	25.0
Hexachloroethane	0.615	0.675	0.300	-9.7	25.0
Nitrobenzene	0.420	0.427	0.200	-1.7	25.0
Isophorone	0.905	0.931	0.400	-2.9	25.0
2-Nitrophenol	0.222	0.232	0.100	-4.6	25.0
2,4-Dimethylphenol	0.358	0.377	0.200	-5.3	25.0
bis(2-Chloroethoxy)methane	0.495	0.513	0.300	-3.5	25.0
2,4-Dichlorophenol	0.276	0.287	0.200	-4.3	25.0
1,2,4-Trichlorobenzene	0.261	0.269	0.200	-2.9	25.0
Naphthalene	1.051	1.108	0.700	-5.4	25.0
4-Chloroaniline	0.498	0.522		-4.9	
Hexachlorobutadiene	0.128	0.133		-3.6	
4-Chloro-3-methylphenol	0.366	0.386	0.200	-5.4	25.0
2-Methylnaphthalene	0.690	0.729	0.400	-5.6	25.0
Hexachlorocyclopentadiene	0.205	0.220		-7.1	
2,4,6-Trichlorophenol	0.330	0.342	0.200	-3.5	25.0
2,4,5-Trichlorophenol	0.353	0.361	0.200	-2.2	25.0
2-Chloronaphthalene	1.061	1.099	0.800	-3.5	25.0
2-Nitroaniline	0.499	0.503		-0.8	
Dimethylphthalate	1.380	1.422		-3.0	
Acenaphthylene	1.927	1.998	1.300	-3.7	25.0
2,6-Dinitrotoluene	0.347	0.358	0.200	-3.1	25.0
3-Nitroaniline	0.438	0.448		-2.3	
Acenaphthene	1.047	1.077	0.800	-2.8	25.0
2,4-Dinitrophenol	0.224	0.248		-10.4	
4-Nitrophenol	0.195	0.203		-4.1	
Dibenzofuran	1.531	1.602	0.800	-4.6	25.0
2,4-Dinitrotoluene	0.475	0.479	0.200	-1.0	25.0

All other compounds must meet a minimum RRF of 0.010.

7LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

2 2 0602

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Instrument ID: MSD6 Calibration Date: 03/08/95 Time: 1033

Lab File ID: 0308602.D Init. Calibration Date(s): 03/07/95

Init. Calibration Times: 1207 1513

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Diethylphthalate	1.405	1.492		-6.2	
4-Chlorophenyl-phenylether	0.529	0.562	0.400	-6.2	25.0
Fluorene	1.151	1.238	0.900	-7.6	25.0
4-Nitroaniline	0.474	0.481		-1.5	
4,6-Dinitro-2-methylphenol	0.194	0.212		-9.1	
N-Nitrosodiphenylamine (1)	0.602	0.644		-7.0	
4-Bromophenyl-phenylether	0.211	0.221	0.100	-5.0	25.0
Hexachlorobenzene	0.232	0.246	0.100	-5.8	25.0
Pentachlorophenol	0.144	0.158	0.050	-9.5	25.0
Phenanthrene	1.211	1.272	0.700	-5.1	25.0
Anthracene	1.233	1.291	0.700	-4.8	25.0
Di-n-butylphthalate	1.788	1.900		-6.2	
Fluoranthene	1.274	1.324	0.600	-3.9	25.0
Pyrene	1.500	1.538	0.600	-2.6	25.0
Butylbenzylphthalate	0.966	0.988		-2.2	
3,3'-Dichlorobenzidine	0.440	0.447		-1.7	
Benzo(a)anthracene	1.342	1.370	0.800	-2.1	25.0
Chrysene	1.224	1.254	0.700	-2.5	25.0
bis(2-Ethylhexyl)phthalate	1.300	1.350		-3.9	
Di-n-octylphthalate	1.925	2.045		-6.2	
Benzo(b)fluoranthene	1.180	1.214	0.700	-3.0	25.0
Benzo(k)fluoranthene	0.982	1.031	0.700	-4.9	25.0
Benzo(a)pyrene	1.055	1.089	0.700	-3.2	25.0
Indeno(1,2,3-cd)pyrene	1.155	1.207	0.500	-4.6	25.0
Dibenz(a,h)anthracene	0.902	0.950	0.400	-5.4	25.0
Benzo(g,h,i)perylene	0.987	1.039	0.500	-5.3	25.0
Nitrobenzene-d5	0.427	0.433		-1.5	
2-Fluorobiphenyl	1.123	1.178	0.700	-4.9	25.0
Terphenyl-d14	0.900	0.927	0.500	-3.0	25.0
Phenol-d5	2.171	2.265	0.800	-4.3	25.0
2-Fluorophenol	1.484	1.542	0.600	-3.9	25.0
2,4,6-Tribromophenol	0.175	0.177		-1.4	

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

FORM VII LCSV-2 6/91

Quantitation Report

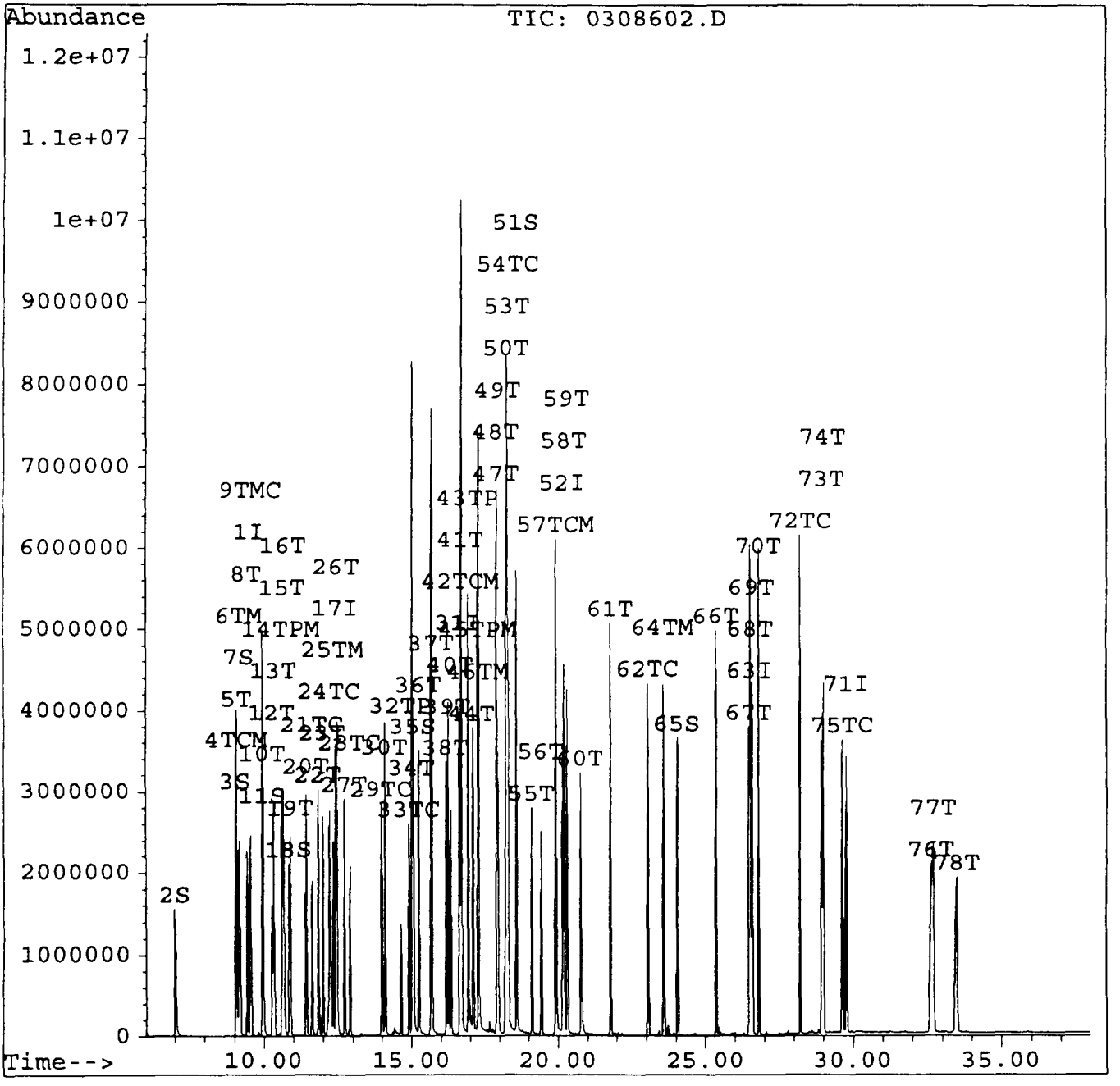
2 2 0603

Data File : C:\HPCHEM\1\DATA\9503086.B\0308602.D
Acq On : 8 Mar 95 10:33 am
Sample : SSTD040 SVCLP310-E IEA MSD6
Misc :
Quant Time: Mar 8 11:31 1995

Vial: 2
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Multiple Level Calibration

R Dm 3/08/95



Quantitation Report

2 2 0604

Data File : C:\HPCHEM\1\DATA\9503086.B\0308602.D
Acq On : 8 Mar 95 10:33 am
Sample : SSTD040 SVCLP310-E IEA MSD6
Misc :
Quant Time: Mar 8 11:31 1995

Vial: 2
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.52	152	706691	40.00	0.00
17) Naphthalene-d8	12.43	136	3218612	40.00	0.00
31) Acenaphthene-d10	16.63	164	1872802	40.00	0.00
52) Phenanthrene-d10	20.15	188	2702837	40.00	0.00
63) Chrysene-d12	26.53	240	2442439	40.00	0.00
71) Perylene-d12	29.78	264	2785544	40.00	0.00
System Monitoring Compounds					**%Recovery**
2) 2-Fluorophenol	7.01	112	1089950	41.58	103.938%
3) Phenol-d5	9.05	99	1600707	41.73	104.326%
7) 2-Chlorophenol-d4	9.16	132	1205326	41.72	104.289%
11) 1,2-Dichlorobenzene-d4	9.93	152	615124	42.08	105.205%
18) Nitrobenzene-d5	10.85	82	1394420	40.59	101.474%
35) 2-Fluorobiphenyl	15.06	172	2207059	41.96	104.896%
51) 2,4,6-Tribromophenol	18.58	330	1326563	162.26	135.219%
65) Terphenyl-d14	24.05	244	2264138	41.20	103.011%
Target Compounds					**Qvalue**
4) Phenol	9.07	94	1651118	42.62	# 86
5) Bis(2-Chloroethyl)ether	9.08	93	1222457	42.90	# 86
6) 2-Chlorophenol	9.19	128	1188954	41.70	98
8) 1,3-Dichlorobenzene	9.43	146	1083039	42.37	98
9) 1,4-Dichlorobenzene	9.56	146	1120415	41.99	98
10) 1,2-Dichlorobenzene	9.96	146	1025286	42.60	98
12) 2,2'-oxybis(1-Chloropropan	10.28	45	1938483	41.60	# 58
13) 2-Methylphenol	10.34	108	1196105	41.77	# 93
14) N-Nitroso-di-n-propylamine	10.60	70	1120448	44.17	# 87
15) Hexachloroethane	10.63	117	476703	43.89	88
16) 4-Methylphenol	10.67	108	1317186	42.53	98
19) Nitrobenzene	10.90	77	1375498	40.67	96
20) Isophorone	11.43	82	2997412	41.18	100
21) 2-Nitrophenol	11.63	139	746485	41.83	96
22) 2,4-Dimethylphenol	11.84	107	1211926	42.10	97
23) bis(2-Chloroethoxy)methane	11.99	93	1650058	41.41	99
24) 2,4-Dichlorophenol	12.22	162	925167	41.72	95
25) 1,2,4-Trichlorobenzene	12.35	180	865029	41.17	98
26) Naphthalene	12.48	128	3565810	42.16	99
27) 4-Chloroaniline	12.72	127	1680831	41.95	98
28) Hexachlorobutadiene	12.91	225	427521	41.45	98
29) 4-Chloro-3-methylphenol	13.98	107	1240883	42.18	91
30) 2-Methylnaphthalene	14.10	142	2345016	42.26	100
32) Hexachlorocyclopentadiene	14.65	237	412038	42.84	100
33) 2,4,6-Trichlorophenol	14.91	196	639939	41.41	99
34) 2,4,5-Trichlorophenol	15.03	196	2701944	163.50	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report 2 2 0605

Data File : C:\HPCHEM\1\DATA\9503086.B\0308602.D
Acq On : 8 Mar 95 10:33 am
Sample : SSTD040 SVCLP310-E IEA MSD6
Misc :
Quant Time: Mar 8 11:31 1995

Vial: 2
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36)	2-Chloronaphthalene	15.26	162	2057402	41.41		96
37)	2-Nitroaniline	15.69	65	3770095	161.26		88
38)	Dimethylphthalate	16.18	163	2662447	41.22		99
39)	Acenaphthylene	16.25	152	3741193	41.48		98
40)	2,6-Dinitrotoluene	16.34	165	669973	41.25		95
41)	3-Nitroaniline	16.71	138	3355057	163.63		92
42)	Acenaphthene	16.70	153	2016644	41.13		99
43)	2,4-Dinitrophenol	16.94	184	1854816	176.63		88
44)	Dibenzofuran	17.09	168	3001128	41.86		99
45)	4-Nitrophenol	17.29	109	1522301	166.54		90
46)	2,4-Dinitrotoluene	17.28	165	897716	40.40	#	1
47)	Diethylphthalate	17.91	149	2793819	42.48		98
48)	Fluorene	17.92	166	2318647	43.04		99
49)	4-Chlorophenyl-phenylether	17.95	204	1052794	42.48		100
50)	4-Nitroaniline	18.25	138	3605848	162.34		97
53)	4,6-Dinitro-2-Methylphenol	18.28	198	2287617	174.55	#	76
54)	N-Nitrosodiphenylamine (1)	18.31	169	1739946	42.81		96
55)	4-Bromophenyl-phenylether	19.11	248	598541	41.99		97
56)	Hexachlorobenzene	19.43	284	664185	42.34		96
57)	Pentachlorophenol	19.93	266	1708855	175.18		98
58)	Phenanthrene	20.20	178	3438706	42.03		98
59)	Anthracene	20.30	178	3490121	41.90		99
60)	Carbazole	20.76	167	3393694	41.65		99
61)	Di-n-butylphthalate	21.79	149	5134788	42.50		98
62)	Fluoranthene	23.06	202	3577218	41.56		96
64)	Pyrene	23.58	202	3757394	41.02		96
66)	Butylbenzylphthalate	25.37	149	2412381	40.89		90
67)	Benzo(a)anthracene	26.49	228	3347188	40.83		97
68)	3,3'-Dichlorobenzidine	26.54	252	1092390	40.67		97
69)	Chrysene	26.60	228	3063979	41.01		99
70)	bis(2-Ethylhexyl)phthalate	26.82	149	3298359	41.54		100
72)	Di-n-octylphthalate	28.22	149	5695961	42.48	#	92
73)	Benzo(b)fluoranthene	28.94	252	3382985	41.18	#	94
74)	Benzo(k)fluoranthene	29.00	252	2870603	41.96	#	95
75)	Benzo(a)pyrene	29.64	252	3032314	41.27	#	94
76)	Indeno(1,2,3-cd)pyrene	32.64	276	3363259	41.82	3/8/95 m	96
77)	Dibenz(a,h)anthracene	32.70	278	2647628	42.16		96
78)	Benzo(g,h,i)perylene	33.50	276	2894078	42.10	#	92

(#) = qualifier out of range (m) = manual integration

Evaluate Continuing Calibration Report

2 2 0606

Data File : C:\HPCHEM\1\DATA\9503086.B\0308602.D Vial: 2
Acq On : 8 Mar 95 10:33 am Operator: GSMITH
Sample : SSTD040 SVCLP310-E IEA MSD6 Inst : MSD6
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:28:00 1995
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
2	S	2-Fluorophenol	1.484	1.542	-3.9	91	0.00
3	S	Phenol-d5	2.171	2.265	-4.3	90	0.00
4	TCM	Phenol	2.193	2.336	-6.5	90	0.00
5	T	Bis(2-Chloroethyl)ether	1.613	1.730	-7.3	91	0.00
6	TM	2-Chlorophenol	1.614	1.682	-4.2	90	0.00
7	S	2-Chlorophenol-d4	1.635	1.706	-4.3	91	0.00
8	T	1,3-Dichlorobenzene	1.447	1.533	-5.9	91	0.00
9	TMC	1,4-Dichlorobenzene	1.510	1.585	-5.0	91	0.00
10	T	1,2-Dichlorobenzene	1.362	1.451	-6.5	90	0.00
11	S	1,2-Dichlorobenzene-d4	0.827	0.870	-5.2	90	0.00
12	T	2,2'-oxybis(1-Chloropropane	2.637	2.743	-4.0	89	0.00
13	T	2-Methylphenol	1.621	1.693	-4.4	91	0.00
14	TPM	N-Nitroso-di-n-propylamine	1.436	1.585	-10.4	92	0.00
	T	Hexachloroethane	0.615	0.675	-9.7	92	0.00
16	T	4-Methylphenol	1.753	1.864	-6.3	90	0.00
17	I	Naphthalene-d8	1.000	1.000	0.0	91	0.00
18	S	Nitrobenzene-d5	0.427	0.433	-1.5	91	0.00
19	T	Nitrobenzene	0.420	0.427	-1.7	91	0.00
20	T	Isophorone	0.905	0.931	-2.9	92	0.00
21	TC	2-Nitrophenol	0.222	0.232	-4.6	93	0.00
22	T	2,4-Dimethylphenol	0.358	0.377	-5.3	91	0.00
23	T	bis(2-Chloroethoxy)methane	0.495	0.513	-3.5	92	0.00
24	TC	2,4-Dichlorophenol	0.276	0.287	-4.3	94	0.00
25	TM	1,2,4-Trichlorobenzene	0.261	0.269	-2.9	91	0.00
26	T	Naphthalene	1.051	1.108	-5.4	92	0.00
27	T	4-Chloroaniline	0.498	0.522	-4.9	92	0.00
28	TC	Hexachlorobutadiene	0.128	0.133	-3.6	93	0.00
29	TC	4-Chloro-3-methylphenol	0.366	0.386	-5.4	92	0.00
30	T	2-Methylnaphthalene	0.690	0.729	-5.6	92	0.00
31	I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00
32	TP	Hexachlorocyclopentadiene	0.205	0.220	-7.1	93	0.00
33	TC	2,4,6-Trichlorophenol	0.330	0.342	-3.5	91	0.00
34	T	2,4,5-Trichlorophenol	0.353	0.361	-2.2	93	0.00
35	S	2-Fluorobiphenyl	1.123	1.178	-4.9	94	0.00
36	T	2-Chloronaphthalene	1.061	1.099	-3.5	92	0.00
37	T	2-Nitroaniline	0.499	0.503	-0.8	92	0.00
38	T	Dimethylphthalate	1.380	1.422	-3.0	91	0.00
	T	Acenaphthylene	1.927	1.998	-3.7	91	0.00
40	T	2,6-Dinitrotoluene	0.347	0.358	-3.1	91	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

2 2 0607

Data File : C:\HPCHEM\1\DATA\9503086.B\0308602.D Vial: 2
Acq On : 8 Mar 95 10:33 am Operator: GSMITH
Sample : SSTD040 SVCLP310-E IEA MSD6 Inst : MSD6
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:28:00 1995
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
41	T	3-Nitroaniline	0.438	0.448	-2.3	91	0.00
42	TCM	Acenaphthene	1.047	1.077	-2.8	92	0.00
43	TP	2,4-Dinitrophenol	0.224	0.248	-10.4	95	0.00
44	T	Dibenzofuran	1.531	1.602	-4.6	93	0.00
45	TPM	4-Nitrophenol	0.195	0.203	-4.1	92	0.00
46	TM	2,4-Dinitrotoluene	0.475	0.479	-1.0	90	0.00
47	T	Diethylphthalate	1.405	1.492	-6.2	91	0.00
48	T	Fluorene	1.151	1.238	-7.6	93	0.00
49	T	4-Chlorophenyl-phenylether	0.529	0.562	-6.2	92	0.00
50	T	4-Nitroaniline	0.474	0.481	-1.5	91	0.00
51	S	2,4,6-Tribromophenol	0.175	0.177	-1.4	91	0.00
52	I	Phenanthrene-d10	1.000	1.000	0.0	90	0.00
53	T	4,6-Dinitro-2-Methylphenol	0.194	0.212	-9.1	93	0.00
	TC	N-Nitrosodiphenylamine (1)	0.602	0.644	-7.0	92	0.00
55	T	4-Bromophenyl-phenylether	0.211	0.221	-5.0	92	0.00
56	T	Hexachlorobenzene	0.232	0.246	-5.8	92	0.00
57	TCM	Pentachlorophenol	0.144	0.158	-9.5	94	0.00
58	T	Phenanthrene	1.211	1.272	-5.1	91	0.00
59	T	Anthracene	1.233	1.291	-4.8	90	0.00
60	T	Carbazole	1.206	1.256	-4.1	89	0.00
61	T	Di-n-butylphthalate	1.788	1.900	-6.2	90	0.00
62	TC	Fluoranthene	1.274	1.324	-3.9	89	0.00
63	I	Chrysene-d12	1.000	1.000	0.0	91	0.00
64	TM	Pyrene	1.500	1.538	-2.6	90	0.00
65	S	Terphenyl-d14	0.900	0.927	-3.0	91	0.00
66	T	Butylbenzylphthalate	0.966	0.988	-2.2	91	0.00
67	T	Benzo(a)anthracene	1.342	1.370	-2.1	90	0.00
68	T	3,3'-Dichlorobenzidine	0.440	0.447	-1.7	92	0.00
69	T	Chrysene	1.224	1.254	-2.5	91	0.00
70	T	bis(2-Ethylhexyl)phthalate	1.300	1.350	-3.9	91	0.00
71	I	Perylene-d12	1.000	1.000	0.0	92	0.00
72	TC	Di-n-octylphthalate	1.925	2.045	-6.2	92	0.00
73	T	Benzo(b)fluoranthene	1.180	1.214	-3.0	91	0.00
74	T	Benzo(k)fluoranthene	0.982	1.031	-4.9	93	0.00
75	TC	Benzo(a)pyrene	1.055	1.089	-3.2	92	0.00
76	T	Indeno(1,2,3-cd)pyrene	1.155	1.207	-4.6	94	0.00
77	T	Dibenz(a,h)anthracene	0.902	0.950	-5.4	94	0.00
78	T	Benzo(g,h,i)perylene	0.987	1.039	-5.3	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Response Factor Report MSD6

2 2 0603

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:28:00 1995
Response via : Initial Calibration

Calibration Files
10 =0307605.D 20 =0307606.D 40 =0307604.D
100 =0307607.D 160 =0307608.D

		Compound	10	20	40	100	160	Avg	%RSD
1)	I	1,4-dichlorobenzene-d	----------ISTD----------						
2)	S	2-Fluorophenol	1.472	1.549	1.526	1.416	1.457	1.484	3.60
3)	S	Phenol-d5	2.292	2.305	2.263	2.010	1.986	2.171	7.32
4)	TCM	Phenol	2.400	2.410	2.332	1.965	1.858	2.193	11.93
5)	T	Bis(2-Chloroethyl)eth	1.801	1.804	1.704	1.423	1.332	1.613	13.69
6)	TM	2-Chlorophenol	1.716	1.711	1.677	1.495	1.470	1.614	7.51
7)	S	2-Chlorophenol-d4	1.711	1.736	1.688	1.518	1.524	1.635	6.47
8)	T	1,3-Dichlorobenzene	1.542	1.550	1.511	1.333	1.300	1.447	8.34
9)	TMC	1,4-Dichlorobenzene	1.651	1.604	1.569	1.382	1.346	1.510	9.09
10)	T	1,2-Dichlorobenzene	1.496	1.493	1.444	1.220	1.157	1.362	11.83
11)	S	1,2-Dichlorobenzene-d	0.882	0.877	0.870	0.762	0.746	0.827	8.12
12)	T	2,2'-oxybis(1-Chlorop	2.844	2.839	2.755	2.401	2.347	2.637	9.24
13)	T	2-Methylphenol	1.706	1.721	1.671	1.509	1.497	1.621	6.73
14)	TPM	N-Nitroso-di-n-propyl	1.590	1.618	1.547	1.240	1.184	1.436	14.39#
15)	T	Hexachloroethane	0.672	0.675	0.659	0.547	0.521	0.615	12.12
16)	T	4-Methylphenol	1.860	1.873	1.846	1.605	1.582	1.753	8.34
7)	I	Naphthalene-d8	----------ISTD----------						
18)	S	Nitrobenzene-d5	0.445	0.440	0.432	0.402	0.416	0.427	4.17
19)	T	Nitrobenzene	0.450	0.437	0.427	0.392	0.396	0.420	6.09
20)	T	Isophorone	0.951	0.940	0.919	0.834	0.879	0.905	5.33
21)	TC	2-Nitrophenol	0.221	0.223	0.227	0.214	0.223	0.222	2.17
22)	T	2,4-Dimethylphenol	0.379	0.376	0.374	0.328	0.331	0.358	7.14
23)	T	bis(2-Chloroethoxy)me	0.527	0.525	0.505	0.454	0.465	0.495	6.86
24)	TC	2,4-Dichlorophenol	0.282	0.286	0.278	0.262	0.271	0.276	3.42
25)	TM	1,2,4-Trichlorobenzen	0.275	0.273	0.267	0.242	0.248	0.261	5.72
26)	T	Naphthalene	1.152	1.140	1.098	0.955	0.911	1.051	10.57
27)	T	4-Chloroaniline	0.526	0.527	0.514	0.457	0.465	0.498	6.85
28)	TC	Hexachlorobutadiene	0.136	0.133	0.130	0.119	0.122	0.128	5.58
29)	TC	4-Chloro-3-methylphen	0.388	0.384	0.380	0.339	0.337	0.366	6.90
30)	T	2-Methylnaphthalene	0.751	0.729	0.717	0.627	0.623	0.690	8.71
31)	I	Acenaphthene-d10	----------ISTD----------						
32)	TP	Hexachlorocyclopentad	0.129	0.175	0.218	0.244	0.260	0.205	25.93#
33)	TC	2,4,6-Trichlorophenol	0.333	0.336	0.344	0.321	0.317	0.330	3.40
34)	T	2,4,5-Trichlorophenol	0.369	0.370	0.356	0.341	0.328	0.353	5.14
35)	S	2-Fluorobiphenyl	1.251	1.193	1.159	1.035	0.980	1.123	10.03
36)	T	2-Chloronaphthalene	1.130	1.113	1.101	0.993	0.969	1.061	7.04
37)	T	2-Nitroaniline	0.524	0.514	0.503	0.478	0.478	0.499	4.16
38)	T	Dimethylphthalate	1.474	1.453	1.442	1.275	1.254	1.380	7.66
39)	T	Acenaphthylene	2.072	2.054	2.019	1.772	1.717	1.927	8.75
40)	T	2,6-Dinitrotoluene	0.349	0.353	0.361	0.333	0.339	0.347	3.15
1)	T	3-Nitroaniline	0.478	0.477	0.454	0.406	0.376	0.438	10.34

(#) = Out of Range

Response Factor Report MSD6

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M 2 2 0609
Title :
Last Update : Wed Mar 08 11:28:00 1995
Response via : Initial Calibration

Calibration Files
10 =0307605.D 20 =0307606.D 40 =0307604.D
100 =0307607.D 160 =0307608.D

		Compound	10	20	40	100	160	Avg	%RSD
42)	TCM	Acenaphthene	1.203	1.138	1.083	0.932	0.881	1.047	13.07
43)	TP	2,4-Dinitrophenol	0.180	0.224	0.241	0.235	0.242	0.224	11.58#
44)	T	Dibenzofuran	1.664	1.626	1.589	1.414	1.363	1.531	8.76
45)	TPM	4-Nitrophenol	0.190	0.201	0.204	0.191	0.190	0.195	3.30#
46)	TM	2,4-Dinitrotoluene	0.503	0.503	0.491	0.438	0.438	0.475	7.06
47)	T	Diethylphthalate	1.629	1.602	1.506	1.225	1.061	1.405	17.79
48)	T	Fluorene	1.342	1.289	1.223	1.008	0.890	1.151	16.78
49)	T	4-Chlorophenyl-phenyl	0.581	0.574	0.560	0.486	0.444	0.529	11.48
50)	T	4-Nitroaniline	0.512	0.513	0.487	0.451	0.410	0.474	9.25
51)	S	2,4,6-Tribromophenol	0.185	0.184	0.178	0.165	0.160	0.175	6.54
52)	I	Phenanthrene-d10	----------ISTD----------						
53)	T	4,6-Dinitro-2-Methylp	0.191	0.210	0.204	0.187	0.178	0.194	6.73
54)	TC	N-Nitrosodiphenylamin	0.667	0.664	0.627	0.533	0.516	0.602	12.02
55)	T	4-Bromophenyl-phenyle	0.223	0.223	0.216	0.197	0.196	0.211	6.57
56)	T	Hexachlorobenzene	0.248	0.242	0.241	0.216	0.213	0.232	7.04
57)	TCM	Pentachlorophenol	0.125	0.146	0.152	0.147	0.152	0.144	7.74
58)	T	Phenanthrene	1.325	1.305	1.257	1.096	1.071	1.211	9.84
59)	T	Anthracene	1.337	1.334	1.291	1.126	1.075	1.233	10.02
60)	T	Carbazole	1.305	1.279	1.264	1.107	1.074	1.206	8.88
61)	T	Di-n-butylphthalate	2.034	1.966	1.890	1.587	1.463	1.788	13.95
62)	TC	Fluoranthene	1.407	1.386	1.333	1.139	1.104	1.274	11.16
63)	I	Chrysene-d12	----------ISTD----------						
64)	TM	Pyrene	1.541	1.531	1.557	1.432	1.439	1.500	3.96
65)	S	Terphenyl-d14	0.948	0.929	0.930	0.847	0.845	0.900	5.50
66)	T	Butylbenzylphthalate	1.001	0.980	0.990	0.924	0.936	0.966	3.53
67)	T	Benzo(a)anthracene	1.386	1.379	1.388	1.277	1.282	1.342	4.30
68)	T	3,3'-Dichlorobenzidin	0.486	0.456	0.443	0.406	0.408	0.440	7.71
69)	T	Chrysene	1.276	1.274	1.259	1.155	1.153	1.224	5.20
70)	T	bis(2-Ethylhexyl)phth	1.397	1.355	1.350	1.208	1.191	1.300	7.22
71)	I	Perylene-d12	----------ISTD----------						
72)	TC	Di-n-octylphthalate	2.142	2.128	2.041	1.724	1.592	1.925	13.08
73)	T	Benzo(b)fluoranthene	1.267	1.185	1.227	1.064	1.155	1.180	6.56
74)	T	Benzo(k)fluoranthene	1.054	1.115	1.023	0.922	0.797	0.982	12.73
75)	TC	Benzo(a)pyrene	1.120	1.108	1.087	0.976	0.984	1.055	6.59
76)	T	Indeno(1,2,3-cd)pyren	1.186	1.173	1.178	1.107	1.129	1.155	3.02
77)	T	Dibenz(a,h)anthracene	0.939	0.928	0.930	0.848	0.863	0.902	4.75
78)	T	Benzo(g,h,i)perylene	1.017	1.000	1.015	0.935	0.968	0.987	3.54

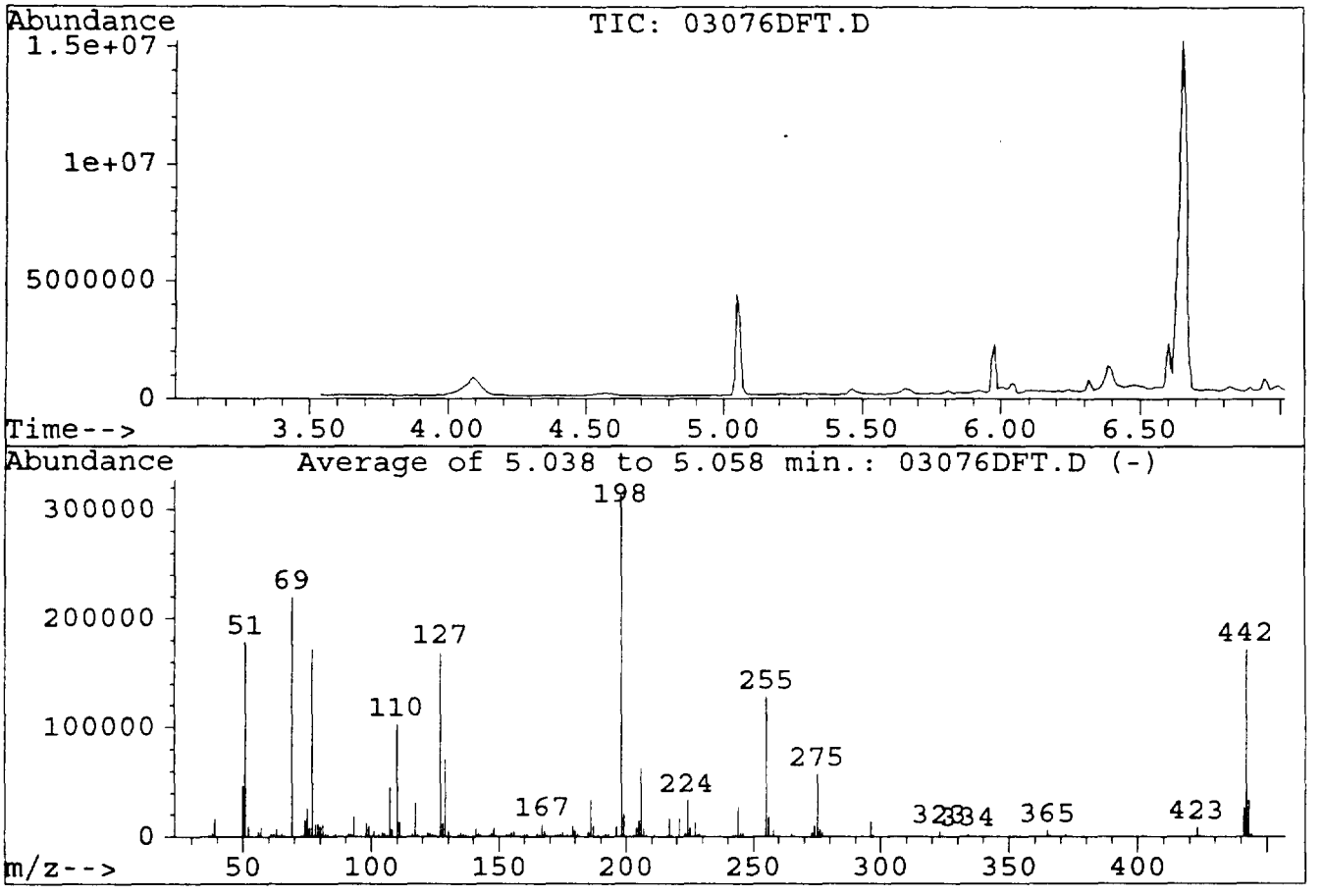
(#) = Out of Range

DFTPP 1/91 2 2 0610

Data File : C:\HPCHEM\1\DATA\9503076.B\03076DFT.D
Acq On : 7 Mar 95 8:07 am
Sample : 50NG DFTPP SVCLP294 IEA MSD6
Misc :

Vial: 1
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : DFTPP



Peak Apex is scan: 154
Average of 3 scans: 153,154,155 minus background scan 151

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Relative Abundance%	Raw Abundance	Result Pass/Fail
51	198	30.00	80.00	57.04	178699	PASS
68	69	0.00	2.00	0.00	0	PASS
69	198	0.00	100.00	70.12	219659	PASS
70	69	0.00	2.00	0.18	393	PASS
127	198	25.00	75.00	54.22	169866	PASS
197	198	0.00	1.00	0.00	0	PASS
198	198	100.00	100.00	100.00	313283	PASS
199	198	5.00	9.00	6.76	21189	PASS
275	198	10.00	30.00	18.48	57907	PASS
365	198	0.75	100.00	1.99	6226	PASS
441	443	0.10	100.00	78.10	26624	PASS
442	198	40.00	110.00	54.87	171905	PASS
443	442	15.00	24.00	19.83	34091	PASS

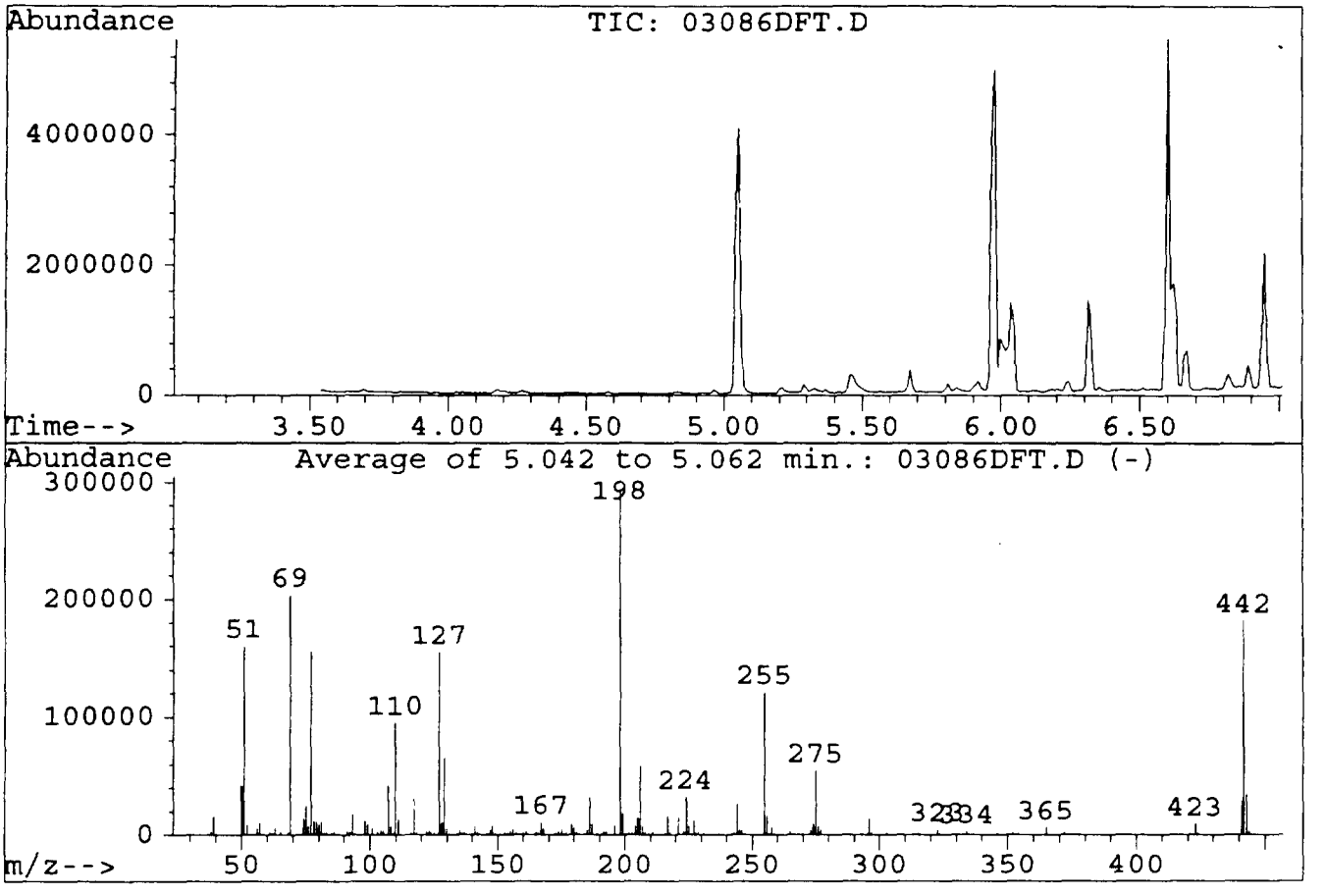
DFTPP 1/91

2 2 0611

Data File : C:\HPCHEM\1\DATA\9503086.B\03086DFT.D
Acq On : 8 Mar 95 9:31 am
Sample : 50NG DFTPP SVCLP294 IEA MSD6
Misc :

Vial: 1
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : DFTPP



Peak Apex is scan: 155
Average of 3 scans: 154,155,156 minus background scan 151

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Relative Abundance%	Raw Abundance	Result Pass/Fail
51	198	30.00	80.00	55.15	160506	PASS
68	69	0.00	2.00	0.82	1673	PASS
69	198	0.00	100.00	69.96	203608	PASS
70	69	0.00	2.00	0.27	541	PASS
127	198	25.00	75.00	53.41	155424	PASS
197	198	0.00	1.00	0.00	0	PASS
198	198	100.00	100.00	100.00	291027	PASS
199	198	5.00	9.00	6.45	18778	PASS
275	198	10.00	30.00	18.78	54664	PASS
365	198	0.75	100.00	2.15	6255	PASS
441	443	0.10	100.00	81.38	28371	PASS
442	198	40.00	110.00	62.51	181909	PASS
443	442	15.00	24.00	19.16	34861	PASS

1LCB 2 2 0612

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK27

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: SBLK27 Date Received: / /

Lab File ID: 0308603.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl)ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLK27

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: SBLK27 Date Received: / /

Lab File ID: 0308603.D Date Extracted:03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

2 2 0614

1LCF

CLIENT SAMPLE NO.

SBLK27

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: SBLK27 Date Received: / /

Lab File ID: 0308603.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File : C:\HPCHEM\1\DATA\9503086.B\0308603.D
Acq On : 8 Mar 95 11:37 am
Sample : SBLK27 IEA MSD6
Misc :
Quant Time: Mar 8 12:15 1995

Vial: 3
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M 2 2 0613
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Continuing Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.52	152	680745	40.00	0.00
17) Naphthalene-d8	12.42	136	3072042	40.00	0.00
31) Acenaphthene-d10	16.63	164	1812120	40.00	0.00
52) Phenanthrene-d10	20.14	188	2672235	40.00	-0.02
63) Chrysene-d12	26.53	240	2671721	40.00	0.00
71) Perylene-d12	29.78	264	3022078	40.00	0.00
System Monitoring Compounds					**%Recovery**
2) 2-Fluorophenol	7.01	112	825105	31.43	78.586%
3) Phenol-d5	9.05	99	1249174	32.41	81.013%
7) 2-Chlorophenol-d4	9.16	132	937608	32.30	80.754%
11) 1,2-Dichlorobenzene-d4	9.93	152	498582	33.66	84.143%
18) Nitrobenzene-d5	10.84	82	1110896	33.39	83.468%
35) 2-Fluorobiphenyl	15.06	172	1867861	34.99	87.465%
51) 2,4,6-Tribromophenol	18.57	330	837132	104.35	86.958%
65) Terphenyl-d14	24.06	244	2264543	36.57	91.435%
Target Compounds					**Qvalue**
38) Dimethylphthalate	16.63	163	221260	~~3.44~~	# 1
40) 2,6-Dinitrotoluene	16.63	165	236546	~~14.60~~	# 37

3/8/95

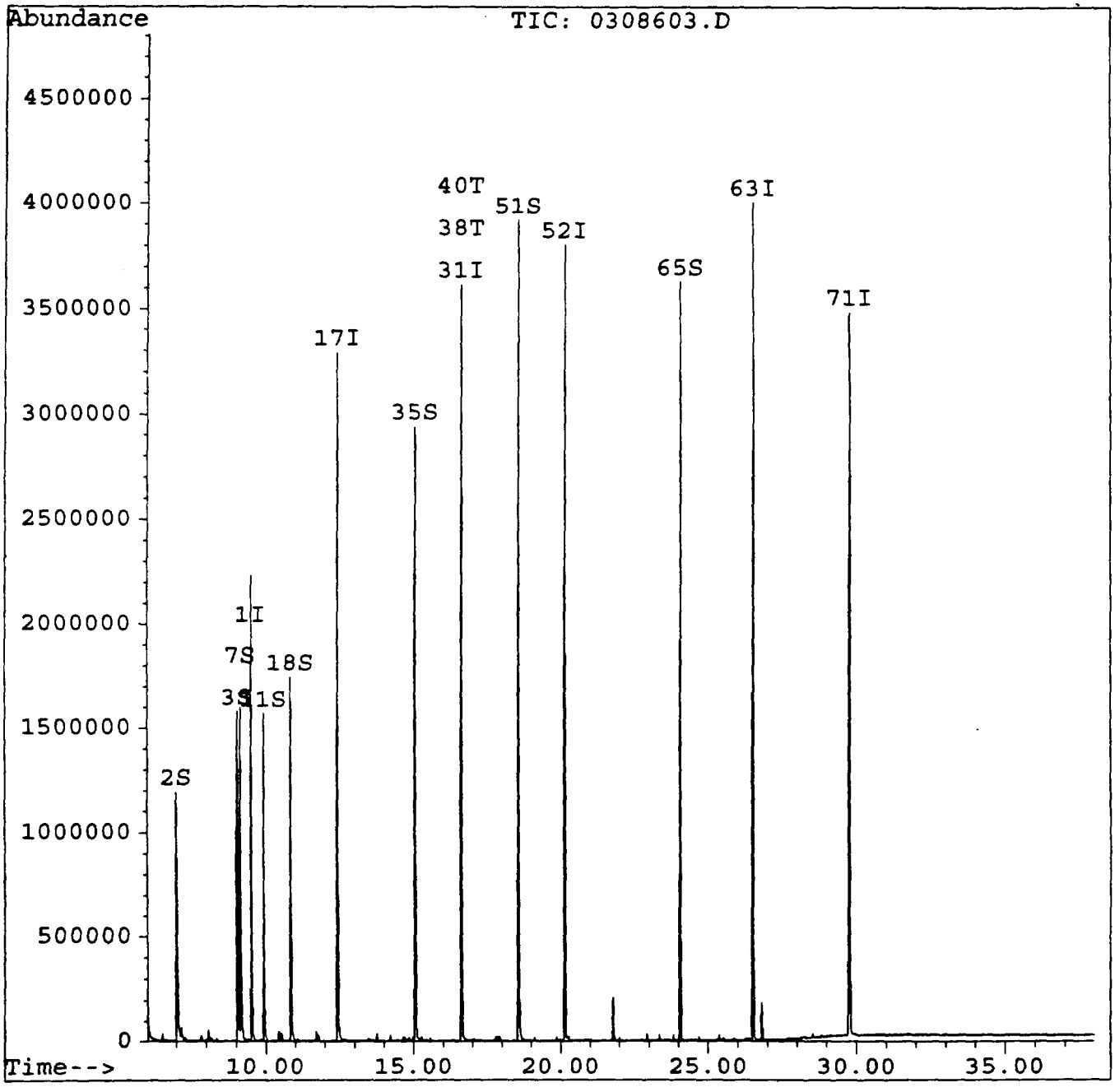
(#) = qualifier out of range (m) = manual integration

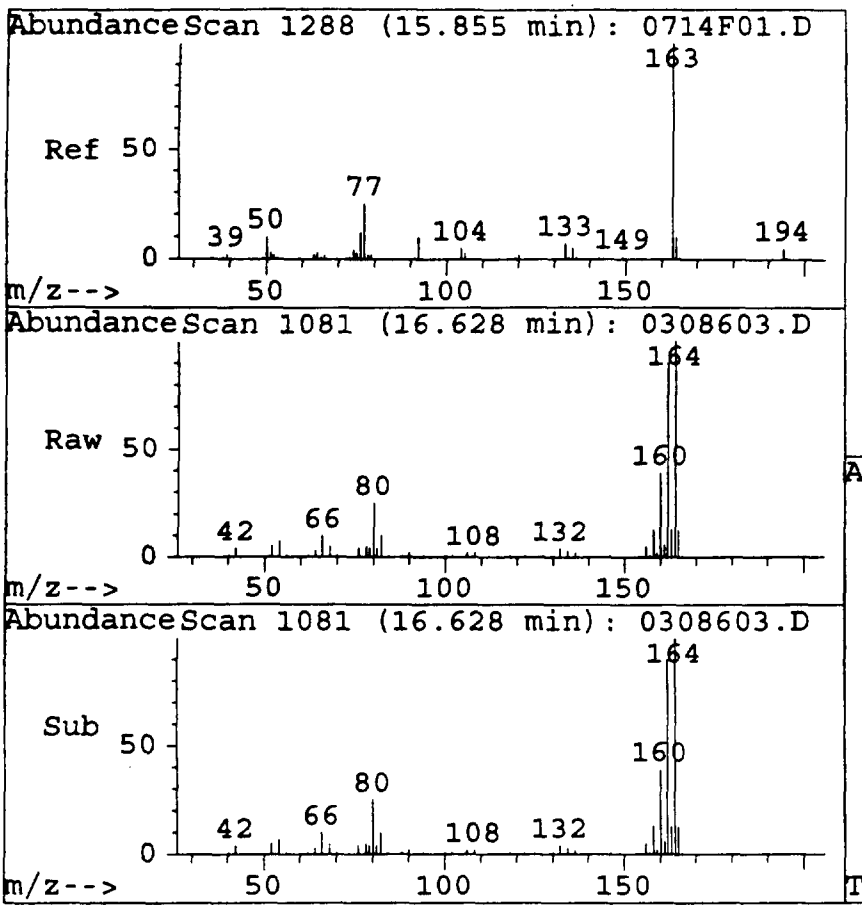
Data File : C:\HPCHEM\1\DATA\9503086.B\0308603.D
Acq On : 8 Mar 95 11:37 am
Sample : SBLK27 IEA MSD6
Misc :
Quant Time: Mar 8 12:15 1995

Vial: 3
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

2 2 0616

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Single Level Calibration

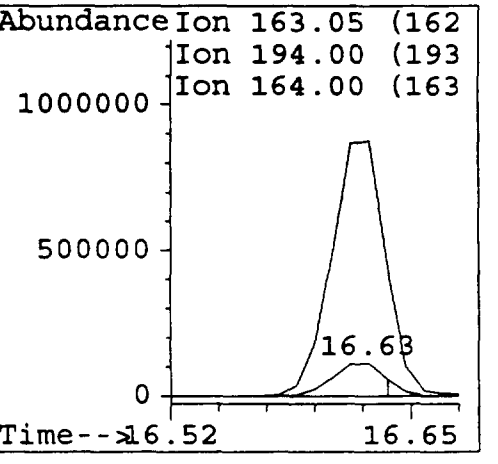


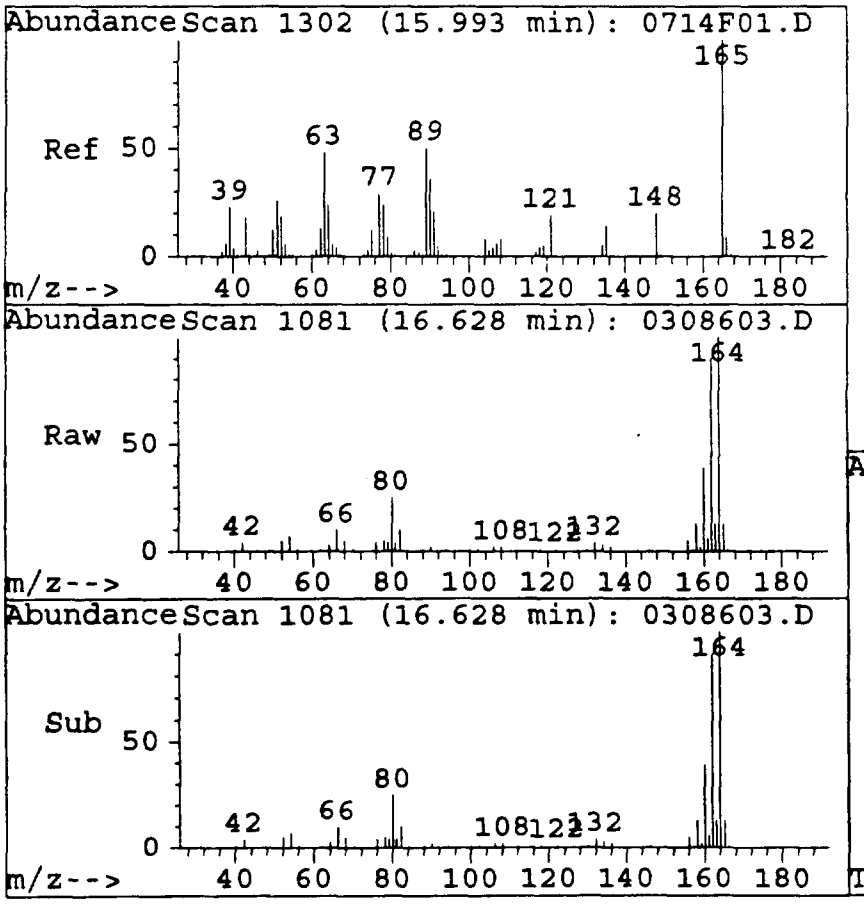


#38
Dimethylphthalate SBLK27
Concen: 3.44
RT: 16.63 min Scan# 1081
Delta R.T. 0.45 min
Lab File: 0308603.D
Acq: 8 Mar 95 11:37 am

Tgt Ion:163.05 Resp: 221260

Ion	Ratio	Lower	Upper
163	100		
194	0.0	4.4	6.5#
164	772.5	8.5	12.7#
0	0.0	0.0	0.0

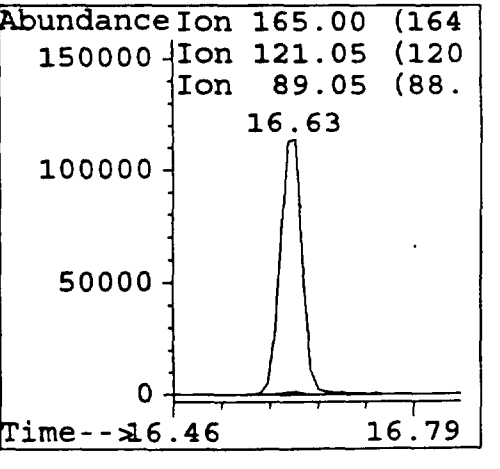




#40
2,6-Dinitrotoluene
Concen: 14.60
RT: 16.63 min Scan# 1081
Delta R.T. 0.29 min
Lab File: 0308603.D
Acq: 8 Mar 95 11:37 am

Tgt Ion:165 Resp: 236546

Ion	Ratio	Lower	Upper
165	100		
121	0.0	15.7	23.6#
89	1.0	39.7	59.5#
0	0.0	0.0	0.0



2 2 0617

Library Search Compound Report

2 2 0613

Data File : C:\HPCHEM\1\DATA\9503086.B\0308603.D
Acq On : 8 Mar 95 11:37 am
Sample : SBLK27 IEA MSD6
Misc :

Vial: 3
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : NBS75K.L

No Library Search Compounds Detected

TENTATIVELY IDENTIFIED COMPOUNDS

IEA Project Number: 2041-001(0)
IEA Sample Number: 9503098
Sample Identification: SB4K27
Applicable Fraction: Volatile _____ Base/Neutral ✓ Acid ✓ Other _____

2 2 0619

Tentatively Identified Compounds (TIC's) are compounds which are not in the specific target compound list but may be present in the sample. An attempt to identify such compounds is made through comparison of the mass spectra of these unknown compounds in the sample with approximately 50,000 spectra contained in the computer's mass spectral library. Analytical standards are not utilized in this procedure and therefore, compounds identified in this manner are referred to as "Tentative" identifications.

IEA personnel identify and classify these compounds using identification guidelines provided by the USEPA under the Contract Laboratory Program (CLP). A gross estimation of concentration is accomplished by comparing the response of the unknown compound versus the nearest internal standard in the total ion chromatogram. As per EPA CLP guidance, TIC's are identified and quantitated only if the response is equal to or greater than 10% of the nearest internal standard. Compounds identified as "unknown" are not uncommon utilizing these guidelines since the requirements for even a tentative identification are quite stringent.

TIC Compound Name	Estimated Concentration (ug/L) (ug/kg)
no tics present per above criteria	<2
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	
15.	
16.	
17.	
18.	
19.	
20.	

Comments:
21
22
23

FORM TIC Rev. 120491

24
25

2 2 0620

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SLCS27

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: SLCS27 Date Received: / /

Lab File ID: 0308608.D Date Extracted: 03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	33	
111-44-4	bis(2-Chloroethyl)ether	18	
95-57-8	2-Chlorophenol	34	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	16	
67-72-1	Hexachloroethane	13	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	16	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	15	
91-20-3	Naphthalene	17	
106-47-8	4-Chloroaniline	15	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	36	
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC 2 2 0621

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SLCS27

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SAS No.: SDG No.: 03098

Lab Sample ID: SLCS27 Date Received: / /

Lab File ID: 0308608.D Date Extracted:03/07/95

Sample Volume: 1000 (mL) Date Analyzed: 03/08/95

Concentrated Extract Volume: 1000(uL) Dilution Factor: 1.0

Injection Volume: 2.0(uL) pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	17	
84-66-2	Diethylphthalate	19	
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	9	
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	18	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	1	J
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	17	
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\9503086.B\0308608.D Vial: 8
Acq On : 8 Mar 95 3:37 pm Operator: GSMITH
Sample : SLCS27 IEA MSD6 Inst : MSD6
Misc : Multiplr: 1.00
Quant Time: Mar 8 16:16 1995

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M 2 2 0622
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Continuing Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-d4	9.54	152	615266	40.00	0.02
17) Naphthalene-d8	12.44	136	2761453	40.00	0.00
31) Acenaphthene-d10	16.63	164	1601508	40.00	0.00
52) Phenanthrene-d10	20.15	188	2327918	40.00	0.00
63) Chrysene-d12	26.53	240	2393731	40.00	0.00
71) Perylene-d12	29.79	264	2637523	40.00	0.00

System Monitoring Compounds					%Recovery
2) 2-Fluorophenol	7.03	112	767835	32.37	80.915%
3) Phenol-d5	9.06	99	1134897	32.57	81.435%
7) 2-Chlorophenol-d4	9.17	132	875368	33.37	83.417%
11) 1,2-Dichlorobenzene-d4	9.95	152	473038	35.33	88.328%
18) Nitrobenzene-d5	10.86	82	1035512	34.62	86.555%
35) 2-Fluorobiphenyl	15.07	172	1663880	35.26	88.160%
51) 2,4,6-Tribromophenol	18.58	330	775925	109.44	91.200%
65) Terphenyl-d14	24.07	244	1987264	35.82	89.557%

Target Compounds						Qvalue
4) Phenol	9.09	94	2382623 33	66.30 3/8/95	#	91
5) Bis(2-Chloroethyl)ether	9.10	93	937073 18	35.22	#	76
6) 2-Chlorophenol	9.20	128	1786042 34	69.02		99
14) N-Nitroso-di-n-propylamine	10.60	70	765701 16	31.40	#	86
15) Hexachloroethane	10.64	117	279417 13	26.93		90
20) Isophorone	11.42	82	2060353 16	32.05		99
21) 2-Nitrophenol	11.42	139	33755	~~2.11~~ FP	#	40
25) 1,2,4-Trichlorobenzene	12.36	180	572009 15	30.83		98
26) Naphthalene	12.48	128	2551104 17	33.35		99
27) 4-Chloroaniline	12.73	127	1103440 15	30.61		100
33) 2,4,6-Trichlorophenol	14.93	196	986532 36	72.11		99
34) 2,4,5-Trichlorophenol	14.93	196	986532	~~68.32~~ FP		97
38) Dimethylphthalate	16.63	163	191327	~~3.36~~ FP	#	1
40) 2,6-Dinitrotoluene	16.63	165	207012	~~14.45~~ FP	#	37
46) 2,4-Dinitrotoluene	17.27	165	652257 17	33.99	#	85
47) Diethylphthalate	17.88	149	2259959 19	37.84		97
54) N-Nitrosodiphenylamine (1)	18.28	169	697916 9	18.63	#	81
56) Hexachlorobenzene	19.43	284	511998 19	35.80		95
61) Di-n-butylphthalate	21.78	149	246150	2.23		98
70) bis(2-Ethylhexyl)phthalate	26.82	149	198065	2.45		98
75) Benzo(a)pyrene	29.65	252	2397075 17	33.39	#	95

(#) = qualifier out of range (m) = manual integration

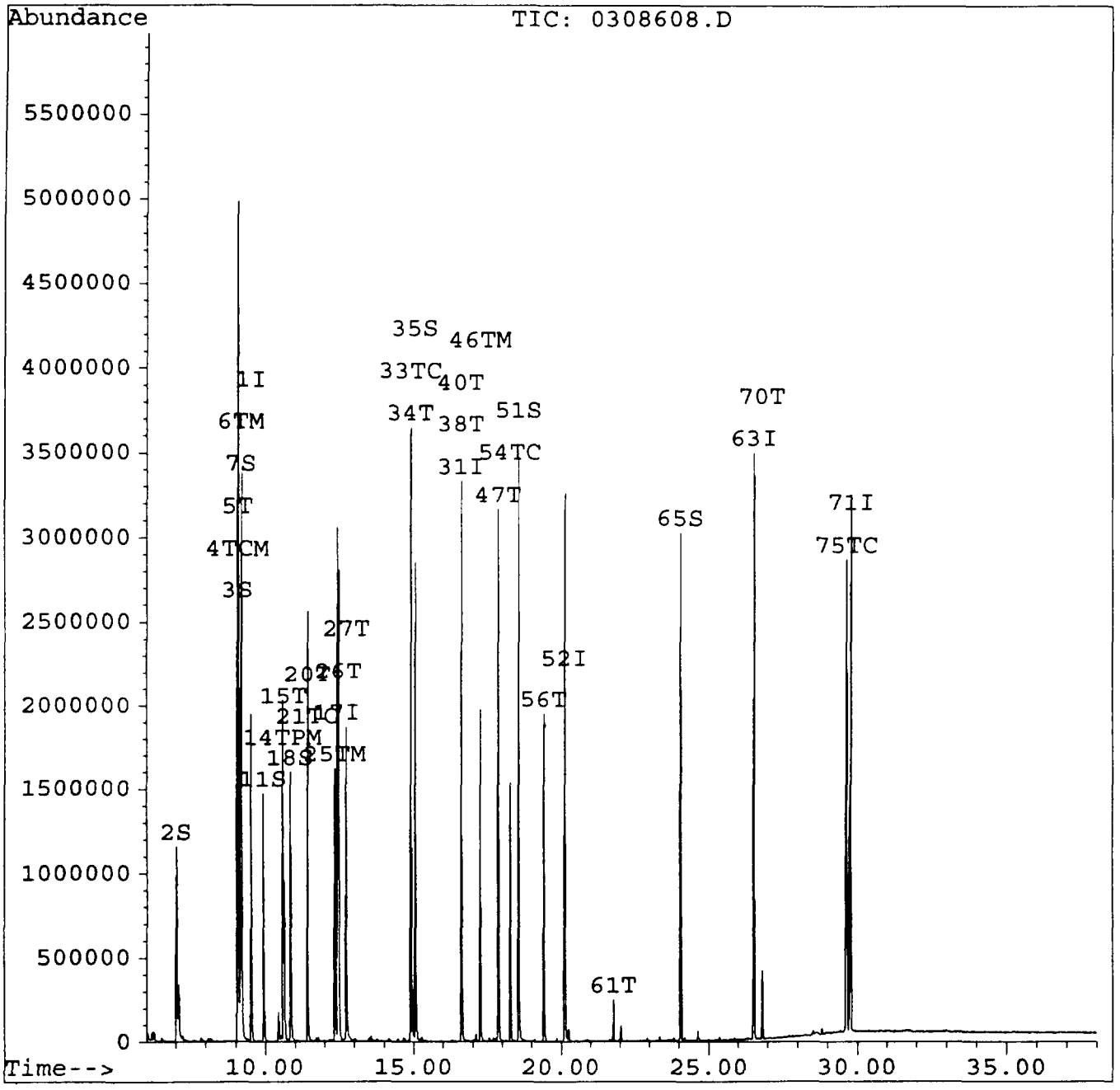
Quantitation Report

2 2 0623

Data File : C:\HPCHEM\1\DATA\9503086.B\0308608.D
Acq On : 8 Mar 95 3:37 pm
Sample : SLCS27 IEA MSD6
Misc :
Quant Time: Mar 8 16:16 1995

Vial: 8
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Last Update : Wed Mar 08 11:32:49 1995
Response via : Single Level Calibration



Library Search Compound Report

2 2 0624

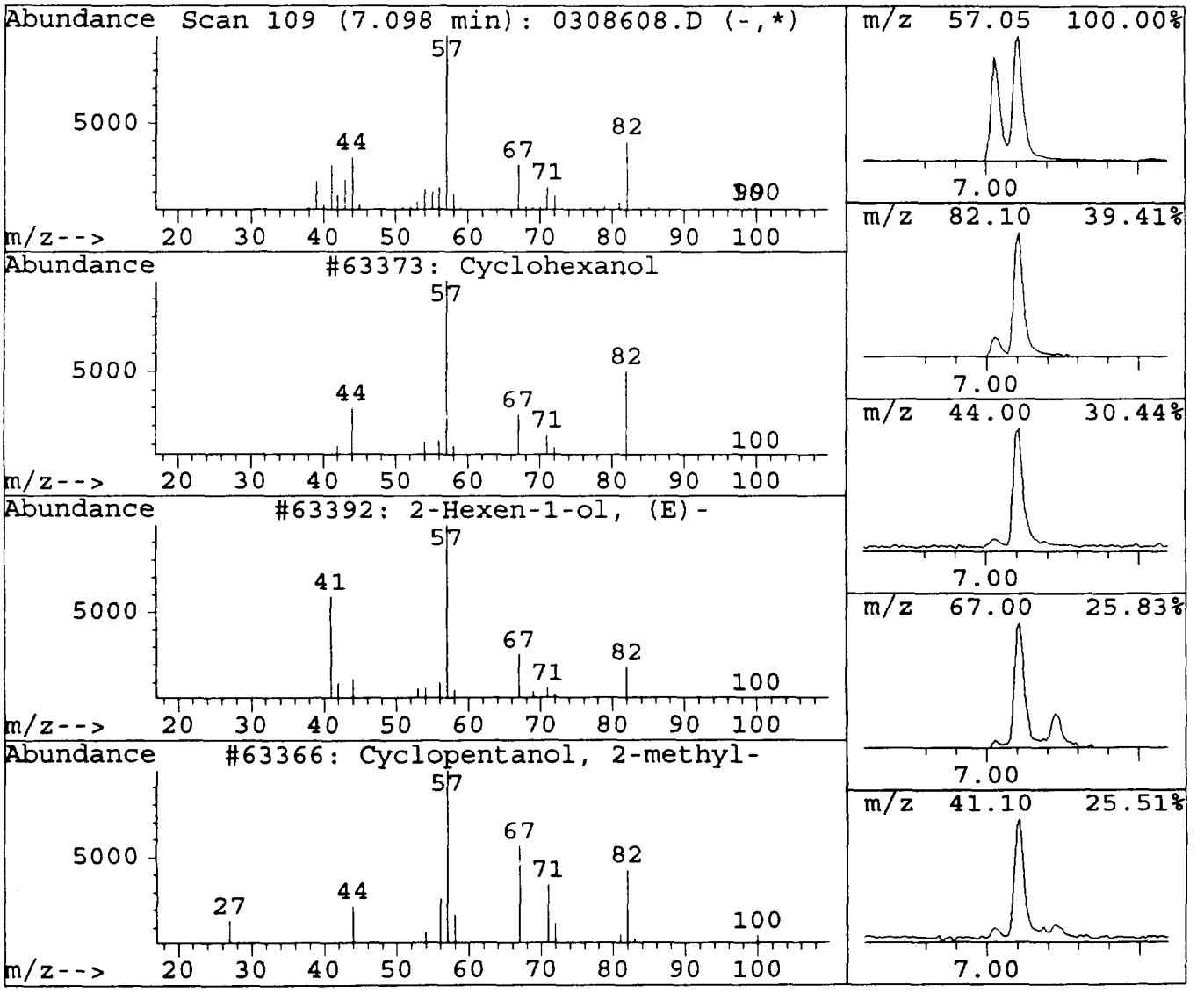
Data File : C:\HPCHEM\1\DATA\9503086.B\0308608.D
Acq On : 8 Mar 95 3:37 pm
Sample : SLCS27 IEA MSD6
Misc :

Vial: 8
Operator: GSMITH
Inst : MSD6
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\9503086.B\CLP691.M
Title :
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
7.10	9.01	879968	1,4-dichlorobenzene-d4	9.54

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanol	63373	000108-93-0	91
2	2-Hexen-1-ol, (E)-	63392	000928-95-0	58
3	Cyclopentanol, 2-methyl-	63366	024070-77-7	47
4	2-Hexen-1-ol, (Z)-	1560	000928-94-9	45
5	Cyclopentanol, 2-methyl-, cis-	1586	025144-05-2	38



2LCC
LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

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

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK67	67	64	76	76			0
02	PLCS66	67	59*	75	75			1
03	CS10	92	112	78	82			0
04	CS10A	92	116	75	76			0
05	CS15	90	110	68	72			0
06	CS15A	93	107	71	73			0
07								
08								
09								
10								
11								
12								
13								
14								
15								
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

3LCC

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PLCS66

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: PLCS66 LCS Lot No.: POC-95-088

LCS Aliquot: 1000 (uL) Date Extracted:03/07/95

Concentrated Extract Volume: 2000(uL) Date Analyzed: 03/08/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

Instrument ID(1): HP5890P1 GC Column(1):RTX-35 ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	100	80	80	56-123
Heptachlor Epoxide	100	76	76	74-150
Dieldrin	200	160	80	33-130
4,4'-DDE	200	150	75	50-150
Endrin	200	160	80	56-121
Endosulfan sulfate	200	130	65	50-100
gamma-Chlordane	100	72	72	33-130

Instrument ID(2): HP5890P2 GC Column(1):DB-1701 ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	100	75	75	56-123
Heptachlor Epoxide	100	74	74	74-150
Dieldrin	200	150	75	33-130
4,4'-DDE	200	140	70	50-150
Endrin	200	150	75	56-121
Endosulfan sulfate	200	120	60	50-100
gamma-Chlordane	100	69	69	33-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
LCS Recovery: 0 out of 14 outside limits

COMMENTS:

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLK67

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Date Extracted: 03/07/95 Lab Sample ID: PBLK67

Date Analyzed (1): 03/08/95 Date Analyzed (2): 03/08/95

Time Analyzed (1): 1817 Time Analyzed (2): 1852

Instrument ID (1): HP5890P1 Instrument ID (2): HP5890P2

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

Sulfur Cleanup: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CS10	950309801	03/08/95	03/08/95
02	CS10A	950309802	03/08/95	03/08/95
03	CS15	950309803	03/08/95	03/08/95
04	CS15A	950309804	03/08/95	03/08/95
05	PLCS66	PLCS66	03/08/95	03/08/95
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

1LCD 2 2 0623

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS10

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: 950309801 Date Received: 03/04/95

Sample wt/vol: 1000 (g/mL) ML Date Extracted: 03/07/95

Concentrated Extract Volume: 2000(uL) Date Analyzed: 03/08/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.017	P
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

10LCA 2 2 0629

LOW CONC. WATER PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

CS10

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: 950309801 Date(s) Analyzed: 03/08/95

Instrument ID (1): HP5890P1 Instrument ID (2): HP5890P2

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

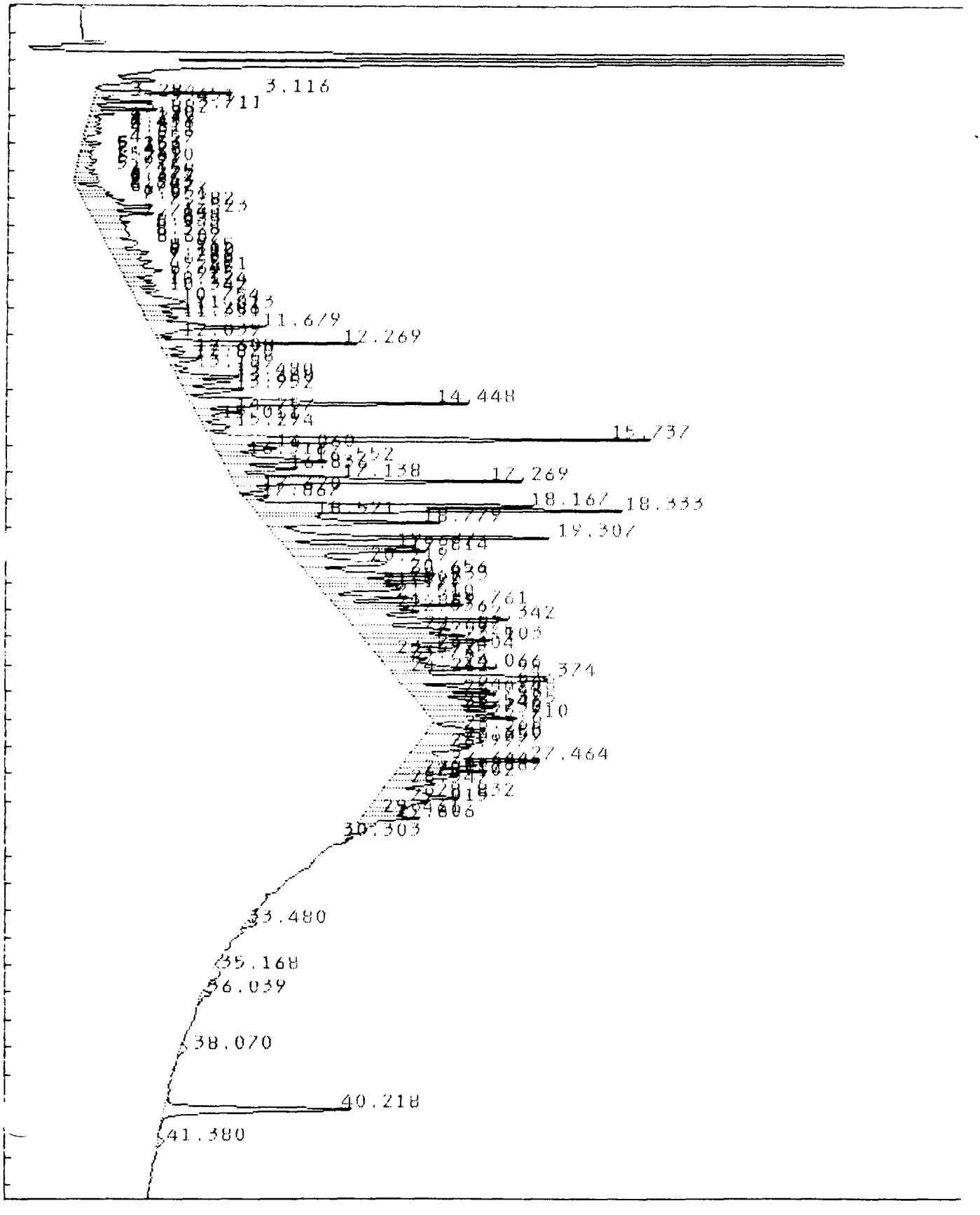
ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	20.93	20.88	20.98	0.028	
	2	13.33	13.28	13.38	0.017	64.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X LCP-1 6/91

UserModifiedFile

IEA Pesticide Standard Report

Sample Name : 950309801 Inj on 2007 08Mar1995
Result File : /RESULT/P1030195_077.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

UserModifiedFile

2 2 0631

Sample Name : 950309801 Report No : 130.200
Result File : /RESULT/P1030195_077.RES
lumn Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 2007 08Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 67 Bottle no. : 67

% Dil-Fact
20.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	3.12		.084	49708	BV	0.00000	
2	3.29		.077	4149	VV	0.00000	
3	3.45		.082	19811	VV	0.00000	
4	3.71		.076	23822	VV	0.00000	
5	3 88		.086	8485	VV	0.00000	
6	4.12		.136	7287	VV	0.00000	
7	4.28		.139	6569	VV	0.00000	
8	4.44		.155	8710	VV	0.00000	
9	4.61		.092	6365	VV	0.00000	
10	4.96		.101	7881	PV	0.00000	
11	5.17		.145	8370	VV	0.00000	
2	5.25		.079	3399	VV	0.00000	
13	5.43		.150	6629	VV	0.00000	
14	5.61		.160	11416	VV	0.00000	
15	5.74		.119	7035	VV	0.00000	
16	5.98		.149	10809	VV	0.00000	
17	6.16		.148	13350	VV	0.00000	
18	6.28		.082	7183	VV	0.00000	
19	6.37		.100	9872	VV	0.00000	
20	6.64		.174	18048	PV	0.00000	
21	6.77		.114	13501	VV	0.00000	
22	6.88		.088	10727	VV	0.00000	
23	7.05		.168	26166	VV	0.00000	
24	7.28		.177	48787	VV	0.00000	
25	7.52		.145	36321	VV	0.00000	
26	7.71		.114	12398	VV	0.00000	
27	7.86		.116	15604	VV	0.00000	
28	8.03		.173	19442	VV	0.00000	
29	8.33		.311	32954	VV	0.00000	
30	8.61		.303	34925	VV	0.00000	
31	8.97		.197	27617	VV	0.00000	
32	9.11		.123	13941	VV	0.00000	
33	9.29		.196	27267	VV	0.00000	
34	9.59		.188	29563	VV	0.00000	
35	9.74		.151	17712	VV	0.00000	
36	9.97		.121	11848	VV	0.00000	
37	10.12		.127	14374	VV	0.00000	

RPC
3/9/95

IEA Pesticide Standard Report

UserModifiedFile

2 2 0632

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
38	10.34		.130	14910	VV	0.00000	
39	10.75		.322	56939	VV	0.00000	
40	11.01		.123	22230	VV	0.00000	
41	11.21		.137	15675	VV	0.00000	
42	11.35		.137	16746	VV	0.00000	
43	11.68		.191	90214	VV	0.00000	
44	12.04		.078	5132	VV	0.00000	
45	12.27	12.25	.120	92781	VV	.03679	Tetrachloro-m-xylene
46	12.61		.150	12950	VV	0.00000	
47	12.82		.181	22867	VV	0.00000	
48	13.19		.136	8275	VV	0.00000	
49	13.48		.156	37525	VV	0.00000	
50	13.66		.154	31000	VV	0.00000	
51	13.95		.166	36901	VV	0.00000	
52	14.45		.152	165186	VV	0.00000	
53	14.76		.153	27550	VV	0.00000	
54	15.01		.142	12514	VV	0.00000	
55	15.29		.213	20303	VV	0.00000	
56	15.74		.145	241171	VV	0.00000	
57	16.06		.185	42406	VV	0.00000	
58	16.32		.120	16052	VV	0.00000	
59	16.55		.173	68707	VV	0.00000	
60	16.84		.160	42527	VV	0.00000	
61	17.14		.109	48300	VV	0.00000	
62	17.27		.138	151929	VV	0.00000	
63	17.62		.163	17762	VV	0.00000	
64	17.87	17.90	.138	12876	PV	.00817	~~beta-BHC~~ BQL
5	18.17		.130	145753	VV	0.00000	
66	18.33		.116	173953	VV	0.00000	
67	18.52		.107	24423	VV	0.00000	
68	18.78		.166	111664	VV	0.00000	
69	19.31		.143	165328	VV	0.00000	
70	19.68		.133	67933	VV	0.00000	
71	19.81		.133	70800	VV	0.00000	
72	20.22		.256	85349	VV	0.00000	
73	20.66		.207	103293	VV	0.00000	
74	20.93	20.93	.161	70557	VV	.02769	Aldrin
75	21.09		.100	31351	VV	0.00000	
76	21.20		.133	41983	VV	0.00000	
77	21.51		.128	42621	VV	0.00000	
78	21.76		.103	55037	VV	0.00000	
79	21.89		.103	26889	VV	0.00000	
80	22.04		.140	42050	VV	0.00000	
81	22.34		.177	114501	VV	0.00000	
82	22.70		.240	82652	VV	0.00000	
83	22.93		.140	54138	VV	0.00000	
84	23.10		.152	73948	VV	0.00000	
85	23.40		.219	64298	VV	0.00000	
86	23.59		.117	19562	VV	0.00000	
87	23.73		.153	26299	VV	0.00000	
88	24.07	24.07	.175	72863	VV	.02249	~~gamma-Chl~~ordane DNC
89	24.21		.084	12194	VV	0.00000	

RPC
3/9/95

IEA Pesticide Standard Report

UserModifiedFile

2 2 0633

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
90	24.37		.270	154141	VV	0.00000	
91	24.91		.187	62411	VV	0.00000	
92	25.06		.094	38078	VV	0.00000	
93	25.39		.187	67289	VV	0.00000	
94	25.55	25.53	.106	31453	VV	.01214	~~4,4'-DDE~~ BQL
95	25.73		.166	41217	VV	0.00000	
96	25.91		.154	51335	VB	0.00000	
97	26.37		.202	42918	BV	0.00000	
98	26.65		.150	33678	VV	0.00000	
99	26.76		.181	42285	VV	0.00000	
100	27.00	27.05	.188	37323	VV	.01974	~~Endrin~~ BQL
101	27.46	27.46	.144	83662	VV	.04260	~~4,4'-DDD~~ ONC
102	27.64	27.67	.170	46191	VV	.02111	~~Endosulfan II~~ ⊥
103	27.87		.130	42553	VV	0.00000	
104	27.99		.085	18549	VV	0.00000	
105	28.10		.159	40866	VV	0.00000	
106	28.35		.187	33011	VV	0.00000	
107	28.83		.256	77049	VV	0.00000	
108	29.01		.208	40975	VV	0.00000	
109	29.46		.113	16410	VV	0.00000	
110	29.61		.154	34197	VV	0.00000	
111	30.30		.082	1812	PV	0.00000	
112	33.48		.170	6999	VV	0.00000	
113	35.17		.137	3079	PV	0.00000	
114	36.04		.223	7483	VV	0.00000	
115	38.07		.300	7604	PV	0.00000	
116	40.22	#40.20	.214	145370	BV	.03108	Decachlorobiphenyl
7	41.38		.283	6551	PB	0.00000	

Total Area : 4957402 Total PPB : .222

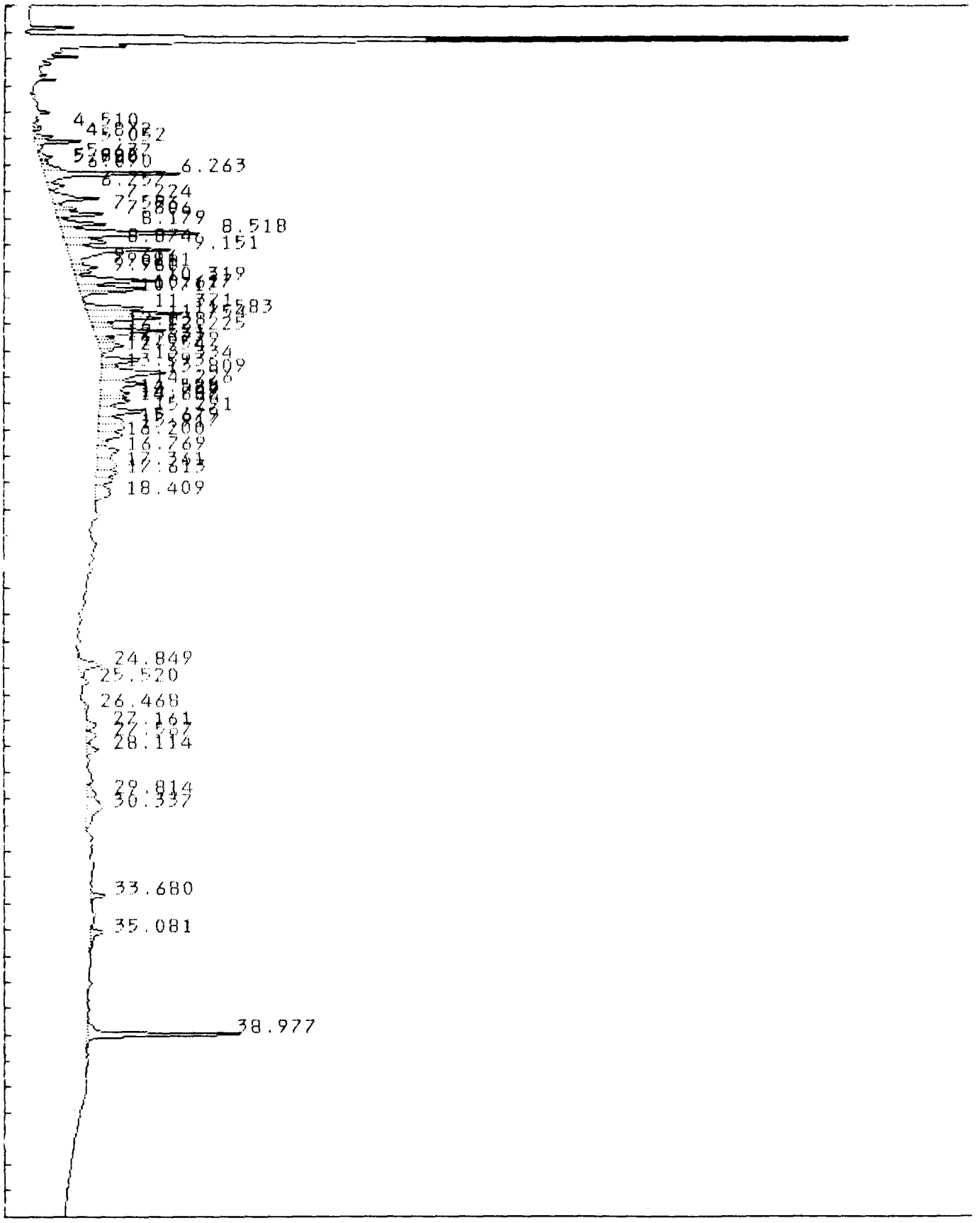
Report Time : 0839 09Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_077.RES

APC
3/9/95

IEA Pesticide Standard Report

UserModifiedFile

Sample Name : 950309801 Inj on 2039 08Mar1995
Result File : /RESULT/P2030195_061.RES INSTRUMENT : HP5890P2
lumn Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report 2 2 0635

UserModifiedFile

Sample Name : 950309801 Report No : 84.11
Result File : /RESULT/P2030195_061.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 2039 08Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 51 Bottle no. : 51

% Dil-Fact
20.00

Run Status : RunStatusOK
SpecialInteg

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.51		0.000	2630	BV	0.00000	
2	4.87		0.000	11484	PV	0.00000	
3	5.05		0.000	23804	VV	0.00000	
4	5.68		0.000	9690	PV	0.00000	
5	5.81		0.000	2004	VV	0.00000	
6	5.92		0.000	3553	VV	0.00000	
7	6.09		0.000	10965	VV	0.00000	
8	6.26	6.26	0.000	96150	VV	.04467	Tetrachloro-m-xylene
9	6.76		0.000	12850	VV	0.00000	
9	7.22		0.000	38635	VV	0.00000	
11	7.60		0.000	14246	VV	0.00000	
12	7.81		0.000	30758	VV	0.00000	
13	8.18		0.000	32600	VV	0.00000	
14	8.52		0.000	113839	VV	0.00000	
15	8.87		0.000	36606	VV	0.00000	
16	9.15		0.000	97175	VV	0.00000	
17	9.62		0.000	5951	VV	0.00000	
18	9.81		0.000	16766	VV	0.00000	
19	9.96		0.000	9225	VV	0.00000	
20	10.32		0.000	70068	VV	0.00000	
21	10.62		0.000	41347	FF	0.00000	
22	10.72		0.000	23531	FF	0.00000	
23	11.37	11.37	0.000	45076	FF	.02488	~~gamma-BHC~~ (Lindane) D
24	11.58		0.000	59521	FF	0.00000	
25	11.75		0.000	53348	FF	0.00000	
26	12.04		0.000	12020	FF	0.00000	
27	12.23	12.21	0.000	58775	FF	.02307	~~Heptachlor~~ DNC
28	12.52		0.000	7876	FF	0.00000	
29	12.63		0.000	8356	FF	0.00000	
30	12.78		0.000	18400	FF	0.00000	
31	12.95		0.000	6761	FF	0.00000	
32	13.33	13.33	0.000	33224	BV	.01700	Aldrin
33	13.59		0.000	7112	VV	0.00000	
34	13.81		0.000	74064	VV	0.00000	
35	14.23		0.000	46687	VV	0.00000	
6	14.59		0.000	20112	VV	0.00000	

RPC
3/9/95

IEA Pesticide Standard Report 2 2 0636

UserModifiedFile

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
37	14.75	14.79	0.000	13257	VV	.00944	~~beta BHC~~ BQL
38	14.89		0.000	25286	VV	0.00000	
39	15.29		0.000	44744	VV	0.00000	
40	15.68		0.000	27321	VV	0.00000	
41	15.92	15.96	0.000	26439	VV	.01600	~~delta-~~BHC DNC
42	16.20		0.000	24842	VV	0.00000	
43	16.77	16.75	0.000	31252	VV	.01328	~~Heptachl~~or epoxide DNC
44	17.36		0.000	29703	VV	0.00000	
45	17.61		0.000	21139	VV	0.00000	
46	18.41	18.43	0.000	27836	VV	.01272	~~Endosul~~fan I DNC
47	24.85		0.000	29129	PV	0.00000	
48	25.52		0.000	6841	VV	0.00000	
49	26.47		0.000	2804	BV	0.00000	
50	27.16		0.000	10303	BV	0.00000	
51	27.57		0.000	12165	VV	0.00000	
52	28.11		0.000	11545	VV	0.00000	
53	29.81		0.000	12979	VV	0.00000	
54	30.34		0.000	43263	VV	0.00000	
55	33.68		0.000	10955	PB	0.00000	
56	35.08		0.000	16318	VB	0.00000	
57	38.98	#38.97	0.000	103232	BV	.03301	Decachlorobiphenyl

Total Area : 1686565 Total PPB : .194

Report Time : 0912 09Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_061.RES

RPC
3/9/95

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS10A

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: 950309802 Date Received: 03/04/95

Sample wt/vol: 1000 (g/mL) ML Date Extracted:03/07/95

Concentrated Extract Volume: 2000(uL) Date Analyzed: 03/08/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.019	P
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

10LCA

LOW CONC. WATER PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

CS10A

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: 950309802 Date(s) Analyzed: 03/08/95

Instrument ID (1): HP5890P1 Instrument ID (2): HP5890P2

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

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	20.91	20.88	20.98	0.034	
	2	13.33	13.28	13.38	0.019	78.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X LCP-1 6/91

IEA Pesticide Standard Report

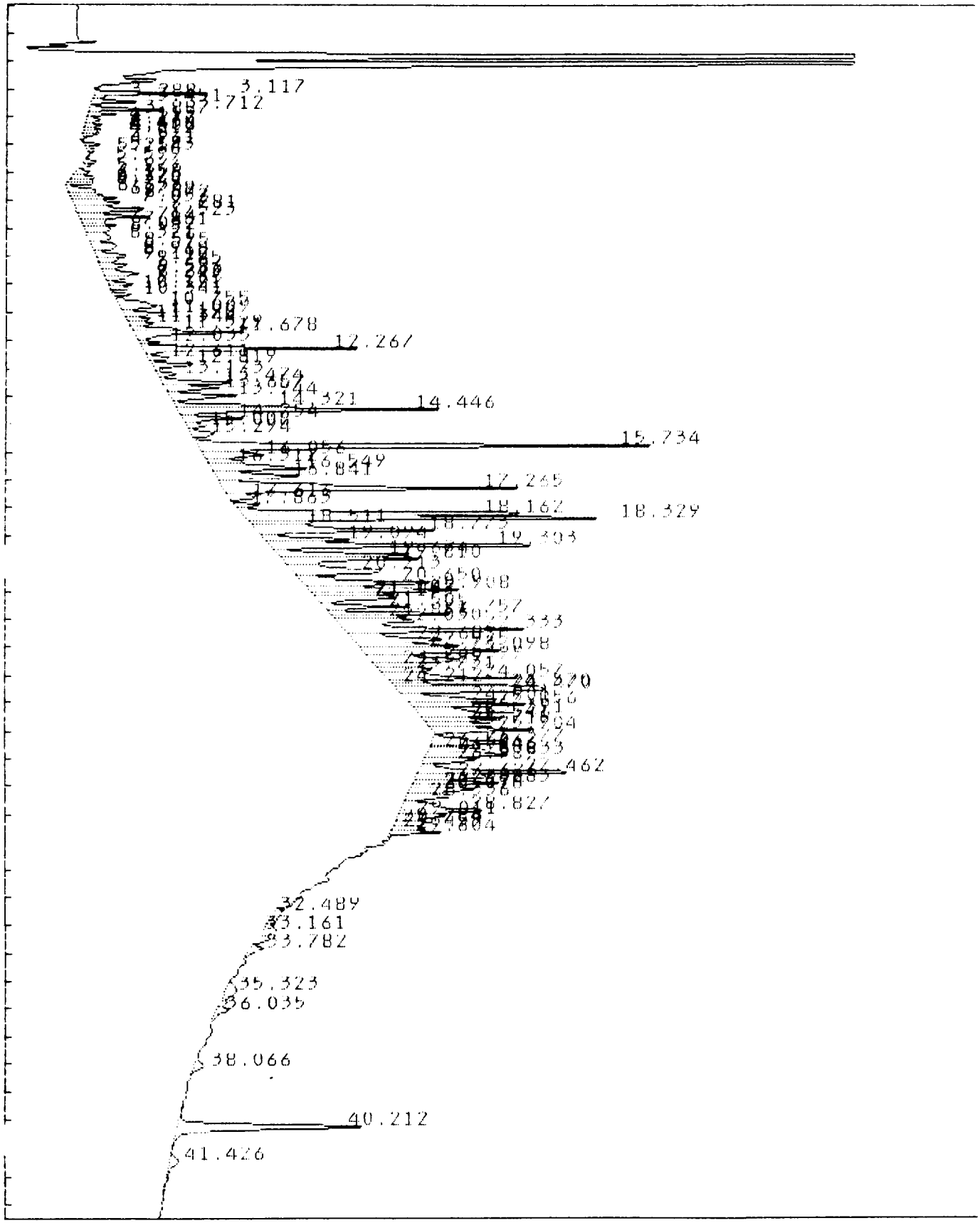
UserModifiedFile

2 2 0639

Sample Name : 950309802 Inj on 2102 08Mar1995

Result File : /RESULT/F1030195_078.RES INSTRUMENT : HP5890F1

Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



UserModifiedFile

IEA Pesticide Standard Report 2 2 0640

Sample Name : 950309802 Report No : 131.200
Result File : /RESULT/P1030195_078.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 2102 08Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 68 Bottle no. : 68

% Dil-Fact
20.00

Run Status : RunStatusOK
EndOffBaseline

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	3.12		.085	40152	BV	0.00000	
2	3.29		.077	3425	VV	0.00000	
3	3.45		.084	15453	VV	0.00000	
4	3.71		.077	25873	VV	0.00000	
5	3.89		.097	10433	VV	0.00000	
6	4.11		.137	6850	VV	0.00000	
7	4.28		.118	7769	VV	0.00000	
8	4.44		.080	4987	VV	0.00000	
9	4.51		.083	5060	VV	0.00000	
10	4.61		.091	6084	VV	0.00000	
11	4.96		.096	6610	PV	0.00000	
12	5.17		.109	4582	VV	0.00000	
13	5.25		.060	1289	VV	0.00000	
14	5.60		.119	5201	BV	0.00000	
15	5.98		.124	6717	PV	0.00000	
16	6.16		.145	11628	VV	0.00000	
17	6.27		.084	7103	VV	0.00000	
18	6.37		.096	9218	VV	0.00000	
19	6.64		.178	18267	PV	0.00000	
20	6.78		.104	12358	VV	0.00000	
21	6.87		.101	17597	VV	0.00000	
22	7.05		.160	28031	VV	0.00000	
23	7.28		.161	44774	VV	0.00000	
24	7.52		.136	36229	VV	0.00000	
25	7.71		.110	10050	VV	0.00000	
26	7.86		.111	14356	VV	0.00000	
27	8.03		.172	16312	VV	0.00000	
28	8.32		.292	23372	VV	0.00000	
29	8.60		.273	24209	VV	0.00000	
30	8.97		.186	20549	VV	0.00000	
31	9.11		.112	8199	VV	0.00000	
32	9.29		.162	17289	VV	0.00000	
33	9.59		.175	23002	VV	0.00000	
34	9.74		.131	10551	VV	0.00000	
35	9.97		.110	10702	VV	0.00000	
36	10.12		.100	8102	VV	0.00000	

RAC
3/9/95

IEA Pesticide Standard Report

UserModifiedFile

2 2 0641

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
37	10.34		.094	6908	PV	0.00000	
38	10.76		.275	37798	VV	0.00000	
39	11.01		.110	17788	VV	0.00000	
40	11.19		.134	11846	VV	0.00000	
41	11.34		.129	12146	VV	0.00000	
42	11.53		.107	18617	VV	0.00000	
43	11.68		.139	60923	VV	0.00000	
44	12.03		.075	6153	VV	0.00000	
45	12.27	12.25	.114	92710	VV	.03676	Tetrachloro-m-xylene
46	12.61		.138	11428	VV	0.00000	
47	12.82		.152	23939	VV	0.00000	
48	13.17		.132	9692	VV	0.00000	
49	13.47		.158	40429	VV	0.00000	
50	13.66		.151	32471	VV	0.00000	
51	13.94		.157	38673	VV	0.00000	
52	14.32		.089	35802	VV	0.00000	
53	14.45		.116	115074	VV	0.00000	
54	14.75		.135	31557	VV	0.00000	
55	15.01		.137	11674	VV	0.00000	
56	15.29		.208	17576	VV	0.00000	
57	15.73		.146	243543	PV	0.00000	
58	16.06		.179	40016	VV	0.00000	
59	16.31		.124	16391	VV	0.00000	
60	16.55		.174	62663	VV	0.00000	
61	16.84		.174	53157	VV	0.00000	
62	17.26		.181	195895	VV	0.00000	
63	17.62		.169	17579	VV	0.00000	
64	17.86	17.90	.137	12728	PV	.00807	~~beta-BHC~~ BQL
65	18.16		.131	144147	VV	0.00000	
66	18.35		.116	16474	VV	0.00000	
67	18.51		.106	23486	VV	0.00000	
68	18.77		.161	110958	VV	0.00000	
69	19.09		.129	43380	VV	0.00000	
70	19.30		.126	142235	VV	0.00000	
71	19.67		.133	66164	VV	0.00000	
72	19.81		.136	71005	VV	0.00000	
73	20.21		.247	80240	VV	0.00000	
74	20.65		.198	94124	VV	0.00000	
75	20.91	20.93	.163	87007	VV	.03415	Aldrin
76	21.09		.098	29828	VV	0.00000	
77	21.19		.130	39173	VV	0.00000	
78	21.50		.119	38657	VV	0.00000	
79	21.76		.100	50551	VV	0.00000	
80	21.90		.107	27964	VV	0.00000	
81	22.03		.147	43151	VV	0.00000	
82	22.33		.166	111057	VV	0.00000	
83	22.69		.220	70264	VV	0.00000	
84	22.92		.142	51147	VV	0.00000	
85	23.10		.152	78357	VV	0.00000	
86	23.40		.218	68726	VV	0.00000	
87	23.59		.111	20445	VV	0.00000	
88	23.73		.165	31460	VV	0.00000	

RPC
3/9/95

IEA Pesticide Standard Report

UserModifiedFile

2 2 0642

Pk#	Rt	ID-tm	Peak Width	Area	Code	PPB	Name
89	24.06	24.07	.160	78431	VV	.02420	~~gamma-Chlor~~dane DNC
90	24.21		.084	11630	VV	0.00000	
91	24.37		.101	54783	VV	0.00000	
92	24.47		.172	93011	VV	0.00000	
93	24.90		.179	63325	VV	0.00000	
94	25.06		.105	48883	VV	0.00000	
95	25.39		.180	72481	VV	0.00000	
96	25.54	25.53	.107	32083	VV	.01238	~~4,4'-DDE~~ BQL
97	25.72		.162	40401	VV	0.00000	
98	25.90		.150	56147	VB	0.00000	
99	26.38		.173	50762	BV	0.00000	
100	26.55		.078	10648	VV	0.00000	
101	26.65		.096	21029	VV	0.00000	
102	26.83		.167	49217	VV	0.00000	
103	26.99	27.05	.171	31521	VV	.01667	~~Endrin~~ BQL
104	27.46	27.46	.126	85424	VV	.04349	~~4,4'-DDD~~ DNC
105	27.63	27.67	.175	43095	VV	.01969	~~Endosulfan~~ II BQL
106	27.86		.127	39573	VV	0.00000	
107	27.99		.083	15703	VV	0.00000	
108	28.10		.150	36198	VV	0.00000	
109	28.34		.172	28227	VV	0.00000	
110	28.83		.217	67430	VV	0.00000	
111	29.01		.185	30835	VV	0.00000	
112	29.28	29.22	.152	19036	VV	.00879	~~Endosulfan~~ sulfate BQL
113	29.46		.096	12320	VV	0.00000	
114	29.60		.101	18950	VV	0.00000	
115	32.49		.468	12696	PV	0.00000	
116	33.16		.319	14384	VV	0.00000	
117	33.78		.219	9628	VV	0.00000	
118	35.32		.454	17237	PV	0.00000	
119	36.04		.232	9825	VV	0.00000	
120	38.07		.273	9035	PV	0.00000	
121	40.21	#40.20	.217	139704	BV	.02987	Decachlorobiphenyl
122	41.43		.362	11797	PV	0.00000	

Total Area : 4824010 Total PPB : .234

Report Time : 0842 09Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_078.RES

RPC
3/9/95

IEA Pesticide Standard Report

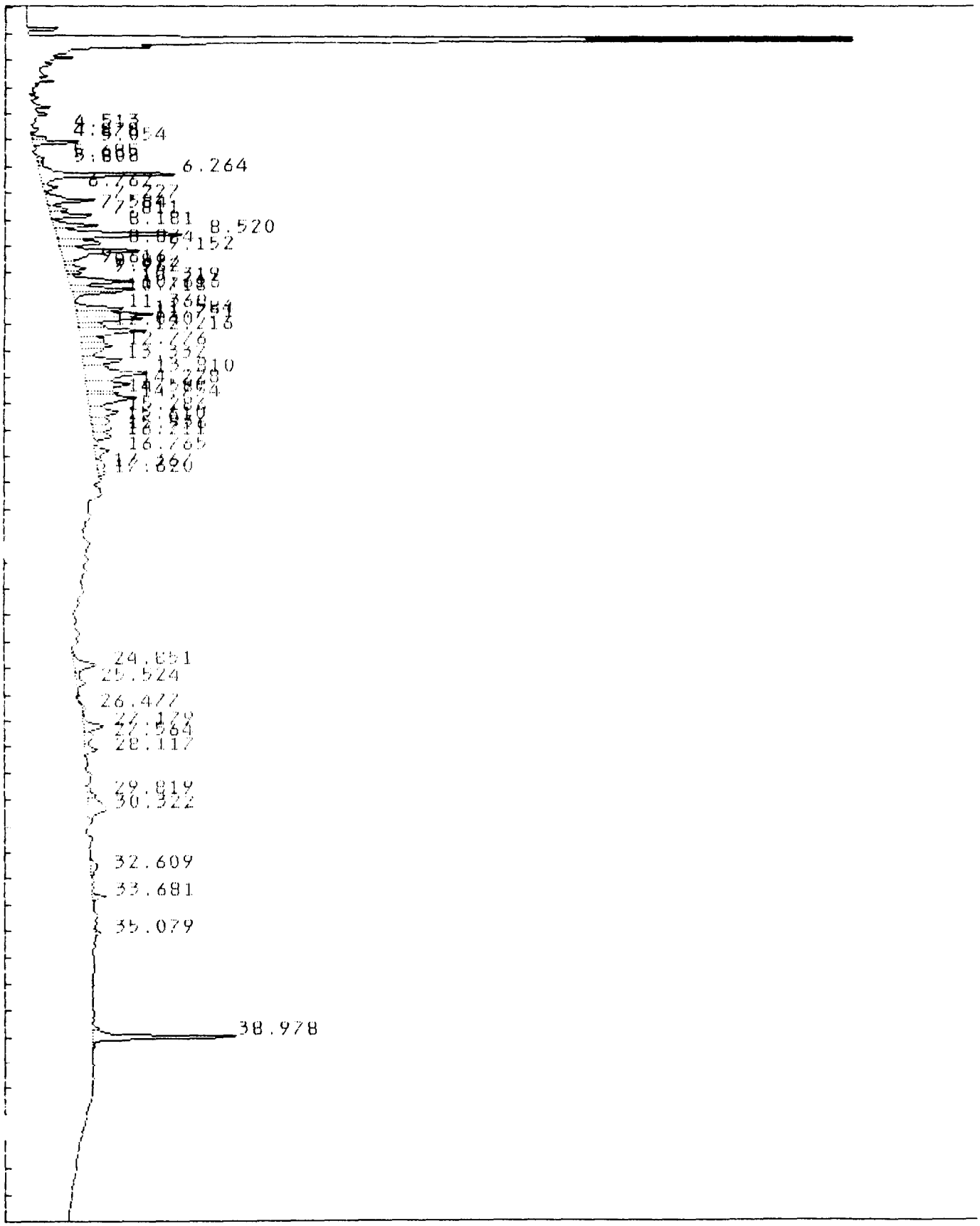
UserModifiedFile

2 2 0643

Sample Name : 950309802 Inj on 2133 08Mar1995

Result File : /RESULT/P2030195_062.RES INSTRUMENT : HP5890P2

Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report 2 2 0644

UserModifiedFile

Sample Name : 950309802 Report No : 85.11
Result File : /RESULT/P2030195_062.RES
Column Type : DB-1/01 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 2133 08Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 37 52 Bottle no. : 52

% Dil-Fact
20.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.51		0.000	713	BV	0.00000	
2	4.88		0.000	9247	BV	0.00000	
3	5.05		0.000	23530	VV	0.00000	
4	5.69		0.000	4733	VV	0.00000	
5	5.81		0.000	2310	VV	0.00000	
6	6.26	6.26	0.000	99488	VV	.04622	Tetrachloro-m-xylene
7	6.76		0.000	9719	VV	0.00000	
8	7.23		0.000	37401	PV	0.00000	
9	7.58		0.000	14389	VV	0.00000	
10	7.81		0.000	26463	VV	0.00000	
11	8.18		0.000	27567	VV	0.00000	
12	8.52		0.000	102110	VV	0.00000	
13	8.87		0.000	37322	VV	0.00000	
14	9.15		0.000	77674	VV	0.00000	
15	9.62		0.000	5692	VV	0.00000	
16	9.81		0.000	13866	VV	0.00000	
17	9.96		0.000	7291	VV	0.00000	
18	10.32		0.000	57866	VV	0.00000	
19	10.62		0.000	38274	VV	0.00000	
20	10.72		0.000	23917	VB	0.00000	
21	11.36	11.37	0.000	38034	BV	.02099	~~gamma-BHC~~ (Lindane) ONC
22	11.58		0.000	48301	VV	0.00000	
23	11.75		0.000	46602	VV	0.00000	
24	12.04		0.000	14439	VV	0.00000	
25	12.22	12.21	0.000	61835	VV	.02427	~~Heptachlor~~ ONC
26	12.78		0.000	24373	VV	0.00000	
27	13.33	13.33	0.000	37255	VV	.01906	Aldrin
28	13.81		0.000	87297	VV	0.00000	
29	14.23		0.000	51238	VV	0.00000	
30	14.59		0.000	18360	VV	0.00000	
31	14.75	14.79	0.000	51476	VV	.03664	~~beta BHC~~ ONC
32	15.29		0.000	33690	VV	0.00000	
33	15.61		0.000	19904	VV	0.00000	
34	15.94	15.96	0.000	19062	VV	.01154	~~delta BHC~~ ONC
35	16.21		0.000	17548	VV	0.00000	
36	16.76	16.75	0.000	14433	VV	.00613	~~Heptachlor~~ epoxide
37	17.37		0.000	9418	VV	0.00000	~~DNC~~ BO

RPC
3/9/95

IEA Pesticide Standard Report

UserModifiedFile

2 2 0645

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
38	17.62		0.000	5549	VV	0.00000	
9	24.85		0.000	29283	BV	0.00000	
40	25.52		0.000	11665	VB	0.00000	
41	26.48		0.000	2717	BB	0.00000	
42	27.18		0.000	22669	BV	0.00000	
43	27.56		0.000	13009	VV	0.00000	
44	28.12		0.000	13484	VV	0.00000	
45	29.82		0.000	9897	VV	0.00000	
46	30.32		0.000	39427	VV	0.00000	
47	32.61	32.60	0.000	11806	PV	.00597	~~Endosulfan~~ sulfate
48	33.68		0.000	8751	VV	0.00000	BQL
49	35.08		0.000	3635	PV	0.00000	
50	38.98	#38.97	0.000	95432	VV	.03052	Decachlorobiphenyl

Total Area : 1480157 Total PPB : .201

Report Time : 0914 09Mar1995
Method : /METHOD/P2030195CLP.MIH
Result File : /RESULT/P2030195_062.RES

RPC
3/9/95

1LCD 2 2 0646

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS15

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: 950309803 Date Received: 03/04/95

Sample wt/vol: 1000 (g/mL) ML Date Extracted:03/07/95

Concentrated Extract Volume: 2000(uL) Date Analyzed: 03/08/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.018	P
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

10LCA

LOW CONC. WATER PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

CS15

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: 950309803 Date(s) Analyzed: 03/08/95

Instrument ID (1): HP5890P1 Instrument ID (2): HP5890P2

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

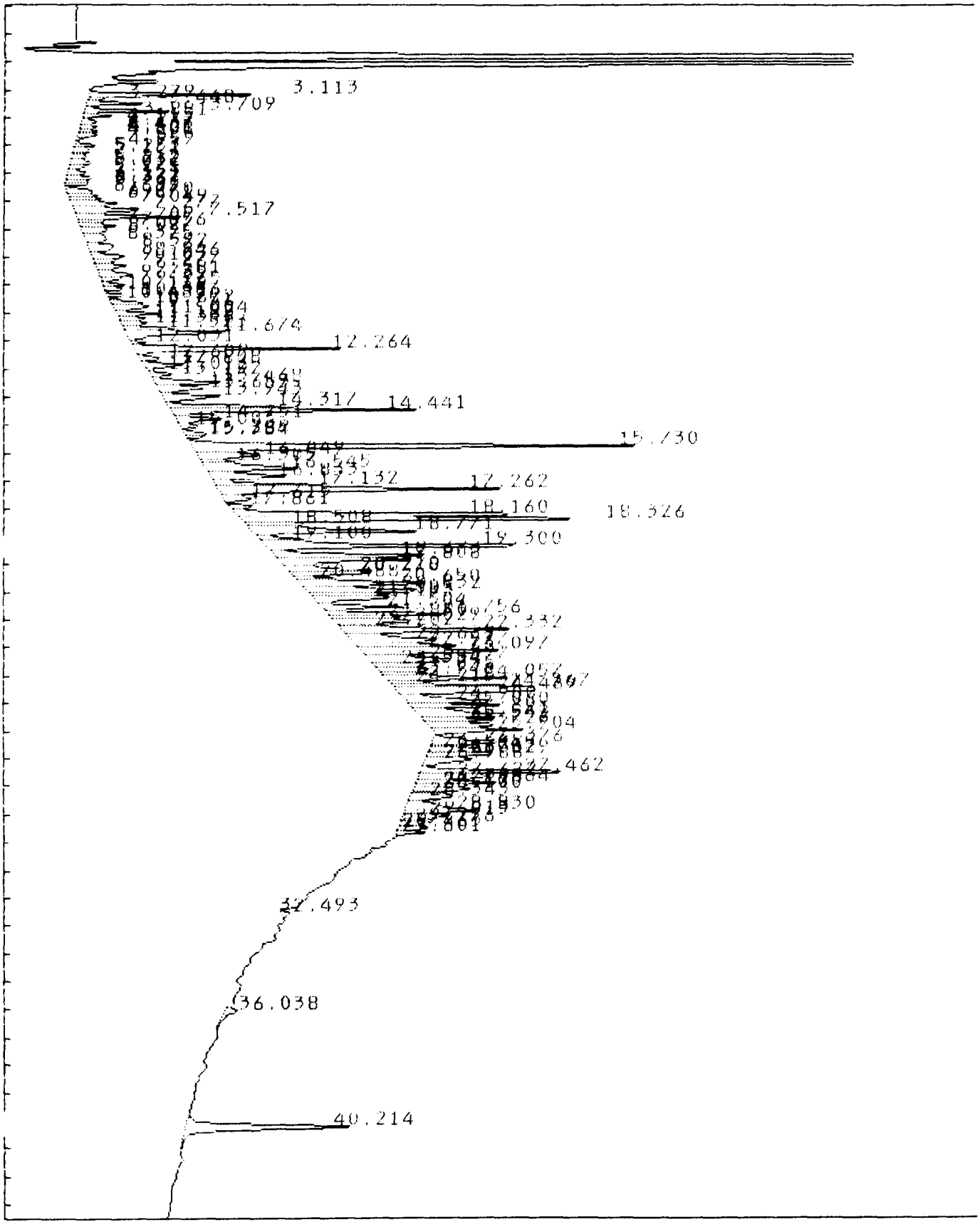
ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	20.93	20.88	20.98	0.026	
	2	13.34	13.28	13.38	0.018	44.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X LCP-1 6/91

IEA Pesticide Standard Report

UserModifiedFile

Sample Name : 950309803 Inj on 2157 08Mar1995
esult File : /RESULT/P1030195_079.RES INSTRUMENT : HP5890P1
olumn Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report 2 2 0642

UserModifiedFile

mple Name : 950309803 Report No : 132.200
esult File : /RESULT/P1030195_079.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 2157 08Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 69 Bottle no. : 69

% Dil-Fact
20.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	3.11		.084	58044	BV	0.00000	
2	3.28		.073	4123	VV	0.00000	
3	3.45		.086	19963	VV	0.00000	
4	3.71		.081	31627	VV	0.00000	
5	3.88		.084	9316	VV	0.00000	
6	4.11		.143	7976	VV	0.00000	
7	4.28		.131	8268	VV	0.00000	
8	4.44		.081	5061	VV	0.00000	
9	4.50		.080	4909	VV	0.00000	
10	4.61		.092	6642	VV	0.00000	
11	4.96		.106	8517	PV	0.00000	
12	5.17		.142	9093	VV	0.00000	
13	5.25		.087	4721	VV	0.00000	
14	5.61		.159	11856	VV	0.00000	
15	5.73		.121	7369	VV	0.00000	
16	5.97		.141	10035	VV	0.00000	
17	6.15		.147	12522	VV	0.00000	
18	6.27		.084	6807	VV	0.00000	
19	6.37		.096	8537	VV	0.00000	
20	6.64		.177	16745	PV	0.00000	
21	6.77		.114	12285	VV	0.00000	
22	6.87		.091	10817	VV	0.00000	
23	7.05		.158	26891	VV	0.00000	
24	7.28		.167	42848	VV	0.00000	
25	7.52		.124	50956	VV	0.00000	
26	7.71		.105	9505	VV	0.00000	
27	7.86		.115	15718	VV	0.00000	
28	8.03		.161	14241	VV	0.00000	
29	8.32		.305	23563	VV	0.00000	
30	8.59		.271	24780	VV	0.00000	
31	8.95		.189	22119	VV	0.00000	
32	9.10		.117	9249	VV	0.00000	
33	9.28		.164	18433	VV	0.00000	
34	9.58		.174	21750	VV	0.00000	
35	9.73		.132	10000	VV	0.00000	
36	9.97		.107	8803	VV	0.00000	
37	10.12		.101	7538	VV	0.00000	

APC
3/9/95

IEA Pesticide Standard Report

UserModifiedFile

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
38	10.34		.094	6811	VV	0.00000	
39	10.49		.057	2165	PV	0.00000	
40	10.62		.117	13071	VV	0.00000	
41	10.75		.174	23051	VV	0.00000	
42	11.00		.113	19286	VV	0.00000	
43	11.18		.140	13440	VV	0.00000	
44	11.34		.134	13105	VV	0.00000	
45	11.52		.115	20602	VV	0.00000	
46	11.67		.143	55883	VV	0.00000	
47	12.03		.072	4724	PV	0.00000	
48	12.26	12.25	.118	91137	VV	.03614	Tetrachloro-m-xylene
49	12.61		.149	11330	VV	0.00000	
50	12.81		.154	22466	VV	0.00000	
51	13.02		.074	2099	VV	0.00000	
52	13.17		.131	11251	VV	0.00000	
53	13.47		.159	38590	VV	0.00000	
54	13.65		.154	29108	VV	0.00000	
55	13.94		.164	35140	VV	0.00000	
56	14.32		.094	38383	VV	0.00000	
57	14.44		.116	106378	VV	0.00000	
58	14.75		.147	26010	VV	0.00000	
59	15.00		.126	9761	VV	0.00000	
60	15.29		.152	11945	VV	0.00000	
61	15.38		.079	5196	VV	0.00000	
62	15.73		.149	246075	PV	0.00000	
63	16.05		.170	38450	VV	0.00000	
64	16.31		.130	16800	VV	0.00000	
65	16.55		.177	60951	VV	0.00000	
66	16.83		.171	46514	VV	0.00000	
67	17.13		.113	43713	VV	0.00000	
68	17.26		.140	143943	VV	0.00000	
69	17.62		.167	17956	VV	0.00000	
70	17.86	17.90	.139	11890	PV	.00754	~~beta-BHC~~ BQL
71	18.16		.134	144665	VV	0.00000	
72	18.33		.116	161411	VV	0.00000	
73	18.51		.103	20968	VV	0.00000	
74	18.77		.164	105046	VV	0.00000	
75	19.10		.124	19182	VV	0.00000	
76	19.30		.132	143153	VV	0.00000	
77	19.67		.130	74245	VV	0.00000	
78	19.81		.138	69308	VV	0.00000	
79	20.21		.146	44785	VV	0.00000	
80	20.28		.105	29813	VV	0.00000	
81	20.49		.088	13120	VV	0.00000	
82	20.65		.179	82831	VV	0.00000	
83	20.93	20.93	.165	66535	VV	.02611	Aldrin
84	21.08		.100	29646	VV	0.00000	
85	21.19		.128	36197	VV	0.00000	
86	21.50		.126	39765	VV	0.00000	
87	21.76		.099	48038	VV	0.00000	
88	21.89		.111	27649	VV	0.00000	
89	22.03		.142	40638	VV	0.00000	

RPC
3/9/95

IEA Pesticide Standard Report

UserModifiedFile

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
90	22.20		.086	15056	VV	0.00000	
1	22.33		.144	90272	VV	0.00000	
92	22.68		.233	72793	VV	0.00000	
93	22.93		.144	51610	VV	0.00000	
94	23.10		.155	78711	VV	0.00000	
95	23.40		.214	62919	VV	0.00000	
96	23.58		.120	21951	VV	0.00000	
97	23.73		.164	30385	VV	0.00000	
98	23.95		.110	21359	VV	0.00000	
99	24.06	24.07	.116	52508	VV	.01620	~~gamma-Chlordane~~ DNC
100	24.22		.093	14147	VV	0.00000	
101	24.37		.102	53615	VV	0.00000	
102	24.47		.171	87767	VV	0.00000	
103	24.90		.186	59477	VV	0.00000	
104	25.06		.093	36574	VV	0.00000	
105	25.39		.179	66018	VV	0.00000	
106	25.54	25.53	.109	30209	VV	.01166	~~4,4'-DDE~~ BQL
107	25.73		.174	41571	VV	0.00000	
108	25.90		.149	51025	VB	0.00000	
109	26.38		.181	45579	BV	0.00000	
110	26.55		.073	9538	VV	0.00000	
111	26.64		.097	19835	VV	0.00000	
112	26.76		.081	16720	VV	0.00000	
113	26.83		.111	25274	VV	0.00000	
114	26.99	27.05	.194	33010	VV	.01746	~~Endrin~~ BQL
115	27.46	27.46	.113	70061	VV	.03567	~~4,4'-DDD~~ DNC
6	27.62	27.67	.177	40979	VV	.01872	~~Endosulfan II~~ BQL
7	27.86		.130	37990	VV	0.00000	
118	27.99		.088	15990	VV	0.00000	
119	28.10		.112	24247	VV	0.00000	
120	28.34		.174	26329	VV	0.00000	
121	28.83		.232	61246	VV	0.00000	
122	29.01		.192	31500	VV	0.00000	
123	29.23	29.22	.159	17716	VV	.00818	~~Endosulfan~~ sulfate BQL
124	29.46		.102	11972	VV	0.00000	
125	29.60		.096	10256	VV	0.00000	
126	32.49		.197	6710	BV	0.00000	
127	36.04		.232	10503	VV	0.00000	
128	40.21	#40.20	.220	126973	BV	.02715	Decachlorobiphenyl

Total Area : 4595845 Total PPB : .205

Report Time : 0846 09Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_079.RES

RPC
3/9/95

IEA Pesticide Standard Report

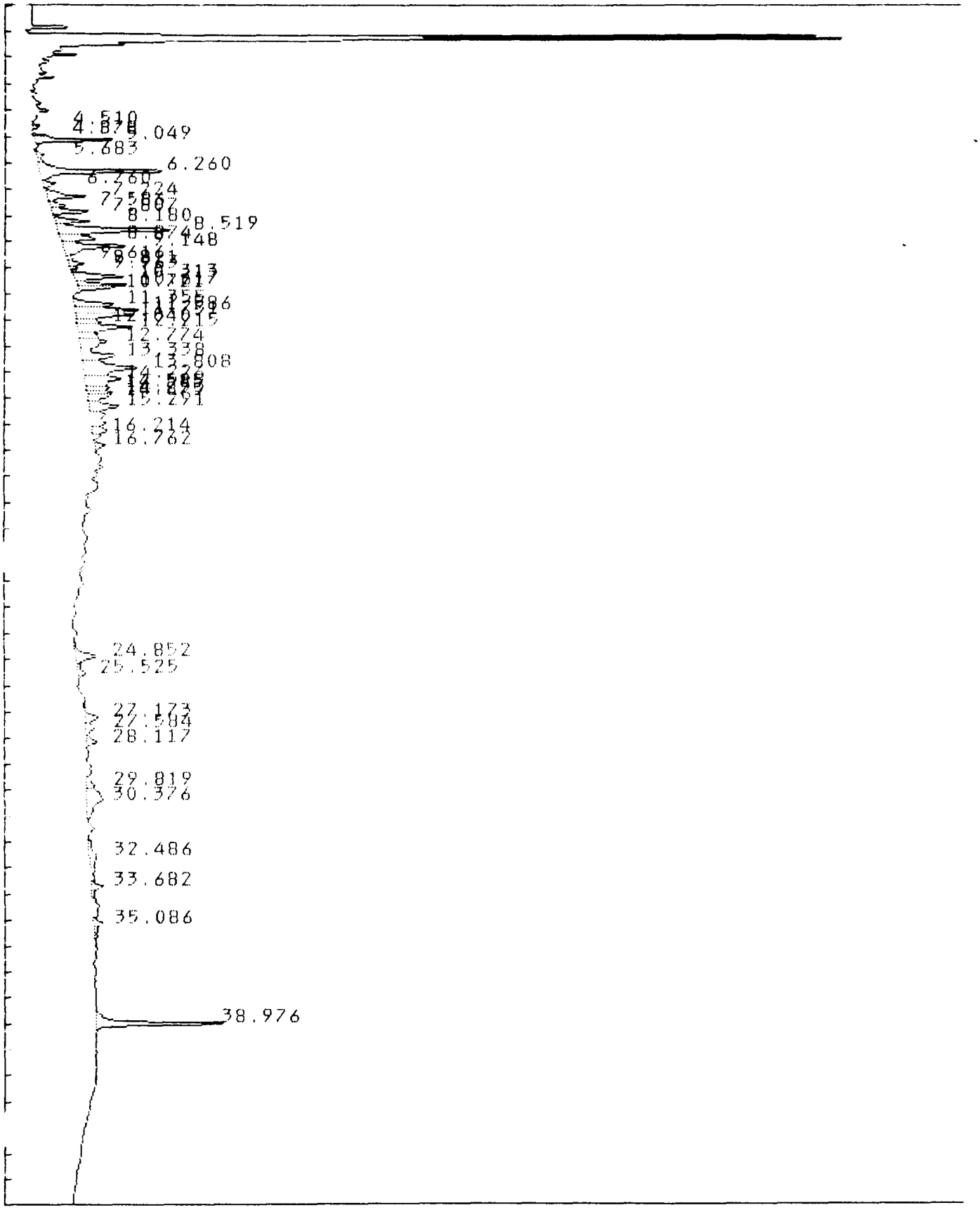
UserModifiedFile

2 2 0652

Sample Name : 950309803 Inj on 2227 08Mar1995

Result File : /RESULT/P2030195_063.RES INSTRUMENT : HP5890P2

Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

UserModifiedFile

2 2 0653

Sample Name : 950309803 Report No : 86.11
esult File : /RESULT/P2030195_063.RES
olumn Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 2227 08Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 53 Bottle no. : 53

% Dil-Fact
20.00

Run Status : RunStatusOK
SpecialInteg

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.51		0.000	2589	BV	0.00000	
2	4.88		0.000	5609	PV	0.00000	
3	5.05		0.000	38918	VV	0.00000	
4	5.68		0.000	5391	VV	0.00000	
5	6.26	6.26	0.000	94715	VV	.04401	Tetrachloro-m-xylene
6	6.76		0.000	8562	VV	0.00000	
7	7.22		0.000	29936	PV	0.00000	
8	7.59		0.000	11044	VV	0.00000	
9	7.81		0.000	22788	VV	0.00000	
10	8.18		0.000	21839	VV	0.00000	
1	8.52		0.000	92233	VV	0.00000	
12	8.87		0.000	30057	VV	0.00000	
13	9.15		0.000	59482	VV	0.00000	
14	9.62		0.000	2832	VV	0.00000	
15	9.81		0.000	9067	VV	0.00000	
16	9.96		0.000	3459	VV	0.00000	
17	10.31		0.000	42675	PV	0.00000	
18	10.62		0.000	27650	FF	0.00000	
19	10.72		0.000	14032	FF	0.00000	
20	11.36	11.37	0.000	32160	BV	.01775	~~gamma BHC~~ (Lindane) ONC
21	11.59		0.000	41445	VV	0.00000	
22	11.75		0.000	42336	VV	0.00000	
23	12.04		0.000	13707	VV	0.00000	
24	12.21	12.21	0.000	50385	VV	.01978	~~Heptachlor~~ ONC
25	12.77		0.000	33976	VV	0.00000	
26	13.34	13.33	0.000	36166	VV	.01850	Aldrin
27	13.81		0.000	77719	VV	0.00000	
28	14.23		0.000	44149	VV	0.00000	
29	14.59		0.000	15934	VV	0.00000	
30	14.75	14.79	0.000	16158	VV	.01150	~~beta BHC~~ ONC
31	14.87		0.000	17126	VV	0.00000	
32	15.29		0.000	31797	VV	0.00000	
33	16.21		0.000	14165	VV	0.00000	
34	16.76	16.75	0.000	8828	VV	.00375	~~Heptachlor~~ epoxide ~~ONC~~ BQ
35	24.85		0.000	26818	PV	0.00000	
36	25.52		0.000	10326	VB	0.00000	

RPC
3/9/95

3 029

IEA Pesticide Standard Report

UserModifiedFile

2 2 0654

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
37	27.17		0.000	15023	BV	0.00000	
8	27.58		0.000	10925	VV	0.00000	
39	28.12		0.000	11543	VV	0.00000	
40	29.82		0.000	10514	VV	0.00000	
41	30.38		0.000	45339	VV	0.00000	
42	32.49		0.000	21278	PV	0.00000	
43	33.68		0.000	13766	VV	0.00000	
44	35.09		0.000	13068	VB	0.00000	
45	38.98	#38.97	0.000	90518	BV	.02895	Decachlorobiphenyl

Total Area : 1268049 Total PPB : .144

Report Time : 0916 09Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_063.RES

RPC
3/9/95

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

CS15A

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: 950309804 Date Received: 03/04/95

Sample wt/vol: 1000 (g/mL) ML Date Extracted: 03/07/95

Concentrated Extract Volume: 2000(uL) Date Analyzed: 03/08/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.013	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

10LCA

LOW CONC. WATER PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

CS15A

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: 950309804 Date(s) Analyzed: 03/08/95

Instrument ID (1): HP5890P1 Instrument ID (2): HP5890P2

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

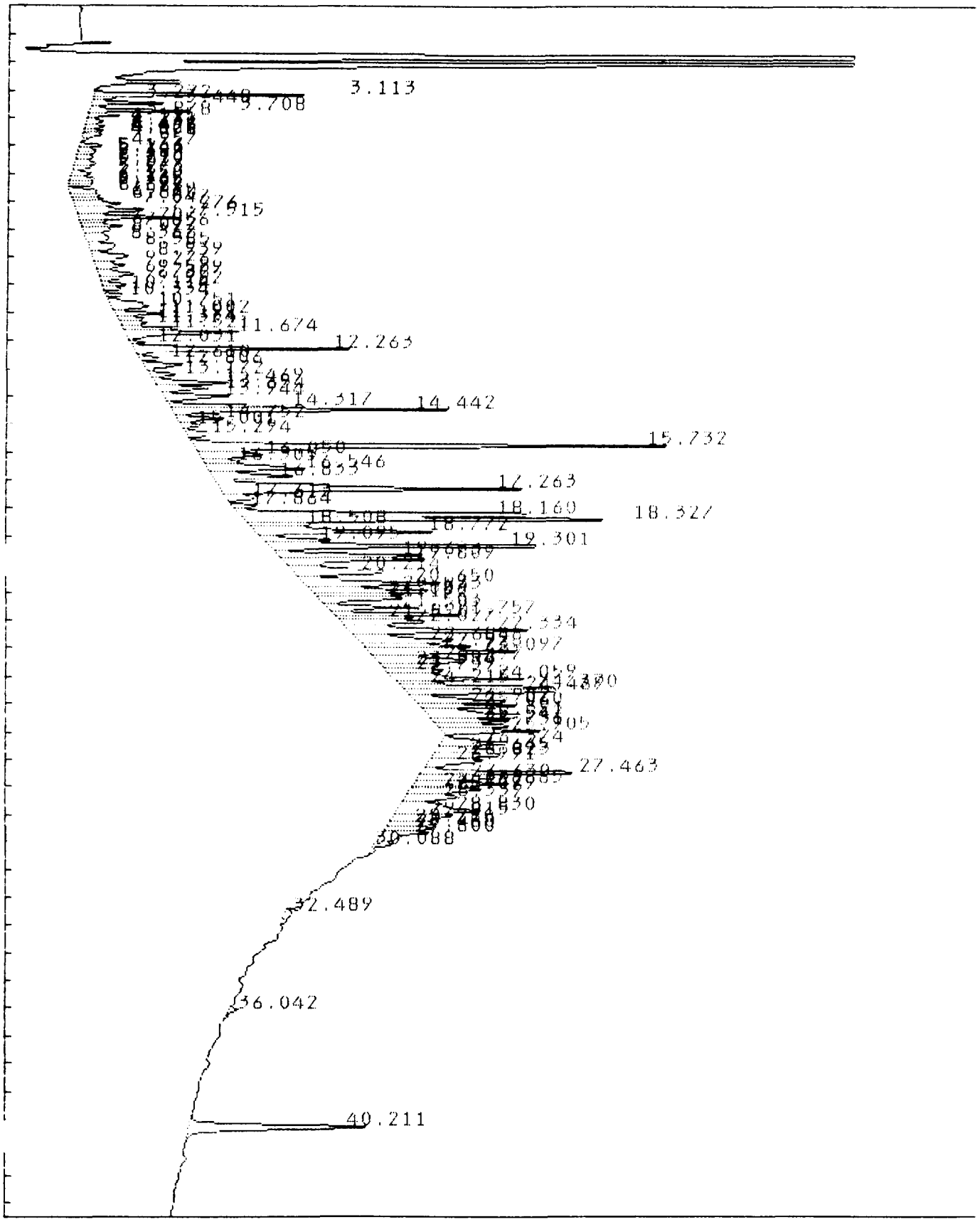
ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	20.93	20.88	20.98	0.028	
	2	13.33	13.27	13.37	0.013	115.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X LCP-1 6/91

UserModifiedFile

IEA Pesticide Standard Report

Sample Name : 950309804 Inj on 2252 08Mar1995
Result File : /RESULT/P1030195_080.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

UserModifiedFile

2 2 0653

Sample Name : 950309804 Report No : 133.200
Result File : /RESULT/P1030195_080.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSID
Run Time : 43.50 Mins. Injected on 2252 08Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 70 Bottle no. : 70

% Dil-Fact
20.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	3.11		.081	74264	BV	0.00000	
2	3.27		.079	6099	VV	0.00000	
3	3.45		.083	25060	VV	0.00000	
4	3.71		.081	38217	VV	0.00000	
5	3.88		.086	10925	VV	0.00000	
6	4.12		.137	9059	VV	0.00000	
7	4.27		.136	9828	VV	0.00000	
8	4.44		.080	5545	VV	0.00000	
9	4.49		.079	5266	VV	0.00000	
10	4.61		.092	6808	VV	0.00000	
11	4.96		.103	9550	VV	0.00000	
12	5.17		.141	9548	VV	0.00000	
13	5.25		.086	5102	VV	0.00000	
14	5.39		.143	8288	VV	0.00000	
15	5.61		.157	12377	VV	0.00000	
16	5.73		.116	7602	VV	0.00000	
17	5.97		.147	10749	VV	0.00000	
18	6.15		.147	12955	VV	0.00000	
19	6.27		.082	6756	VV	0.00000	
20	6.37		.097	8988	VV	0.00000	
21	6.63		.180	17836	PV	0.00000	
22	6.77		.114	12412	VV	0.00000	
23	6.87		.091	10393	VV	0.00000	
24	7.05		.159	27436	VV	0.00000	
25	7.28		.165	44514	VV	0.00000	
26	7.52		.124	47397	VV	0.00000	
27	7.71		.103	9514	VV	0.00000	
28	7.86		.116	17908	VV	0.00000	
29	8.02		.164	15603	VV	0.00000	
30	8.37		.302	23835	VV	0.00000	
31	8.58		.272	26069	VV	0.00000	
32	8.94		.266	34140	VV	0.00000	
33	9.28		.163	18232	VV	0.00000	
34	9.58		.183	24772	VV	0.00000	
35	9.74		.130	10029	VV	0.00000	
36	9.96		.113	10735	VV	0.00000	
37	10.11		.100	7671	VV	0.00000	

APC
3/9/95

IEA Pesticide Standard Report

UserModifiedFile

2 2 0659

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
38	10.33		.095	6964	PV	0.00000	
39	10.75		.285	38700	VV	0.00000	
40	11.00		.111	19960	VV	0.00000	
41	11.19		.142	13689	VV	0.00000	
42	11.33		.130	13046	VV	0.00000	
43	11.52		.112	22014	VV	0.00000	
44	11.67		.138	61327	VV	0.00000	
45	12.05		.071	4657	PV	0.00000	
46	12.26	12.25	.114	93430	VV	.03705	Tetrachloro-m-xylene
47	12.61		.146	10865	VV	0.00000	
48	12.81		.170	24989	VV	0.00000	
49	13.17		.129	13115	VV	0.00000	
50	13.47		.157	41196	VV	0.00000	
51	13.65		.149	30966	VV	0.00000	
52	13.94		.161	39239	VV	0.00000	
53	14.32		.091	39700	VV	0.00000	
54	14.44		.116	120263	VV	0.00000	
55	14.75		.147	26217	VV	0.00000	
56	15.00		.127	10373	VV	0.00000	
57	15.29		.220	18071	VV	0.00000	
58	15.73		.147	258598	PV	0.00000	
59	16.05		.173	40896	VV	0.00000	
60	16.30		.132	18291	VV	0.00000	
61	16.55		.175	64699	VV	0.00000	
62	16.83		.171	49734	VV	0.00000	
63	17.26		.179	199713	VV	0.00000	
64	17.61		.172	19099	VV	0.00000	
65	17.86	17.90	.139	13024	PV	.00826	~~beta~~-BHC BQL
66	18.16		.131	150786	VV	0.00000	
67	18.33		.117	175977	VV	0.00000	
68	18.51		.102	22443	VV	0.00000	
69	18.77		.160	110962	VV	0.00000	
70	19.09		.131	33507	VV	0.00000	
71	19.30		.129	151161	VV	0.00000	
72	19.67		.152	72193	VV	0.00000	
73	19.81		.139	75796	VV	0.00000	
74	20.21		.246	80828	VV	0.00000	
75	20.65		.204	103184	VV	0.00000	
76	20.93	20.93	.163	71438	VV	.02804	~~Aldrin~~ High % D
77	21.09		.099	32215	VV	~~0.00000~~	
78	21.19		.129	40113	VV	0.00000	MA 3/9/95
79	21.50		.123	43117	VV	0.00000	
80	21.76		.101	53491	VV	0.00000	
81	21.89		.105	28524	VV	0.00000	
82	22.03		.144	45720	VV	0.00000	
83	22.33		.167	112314	VV	0.00000	
84	22.68		.239	81066	VV	0.00000	
85	22.93		.139	53926	VV	0.00000	
86	23.10		.155	85408	VV	0.00000	
87	23.40		.212	68323	VV	0.00000	
88	23.58		.117	24391	VV	0.00000	
89	23.74		.168	34923	VV	0.00000	

RPC
3/7/95

IEA Pesticide Standard Report

UserModifiedFile

2 2 0660

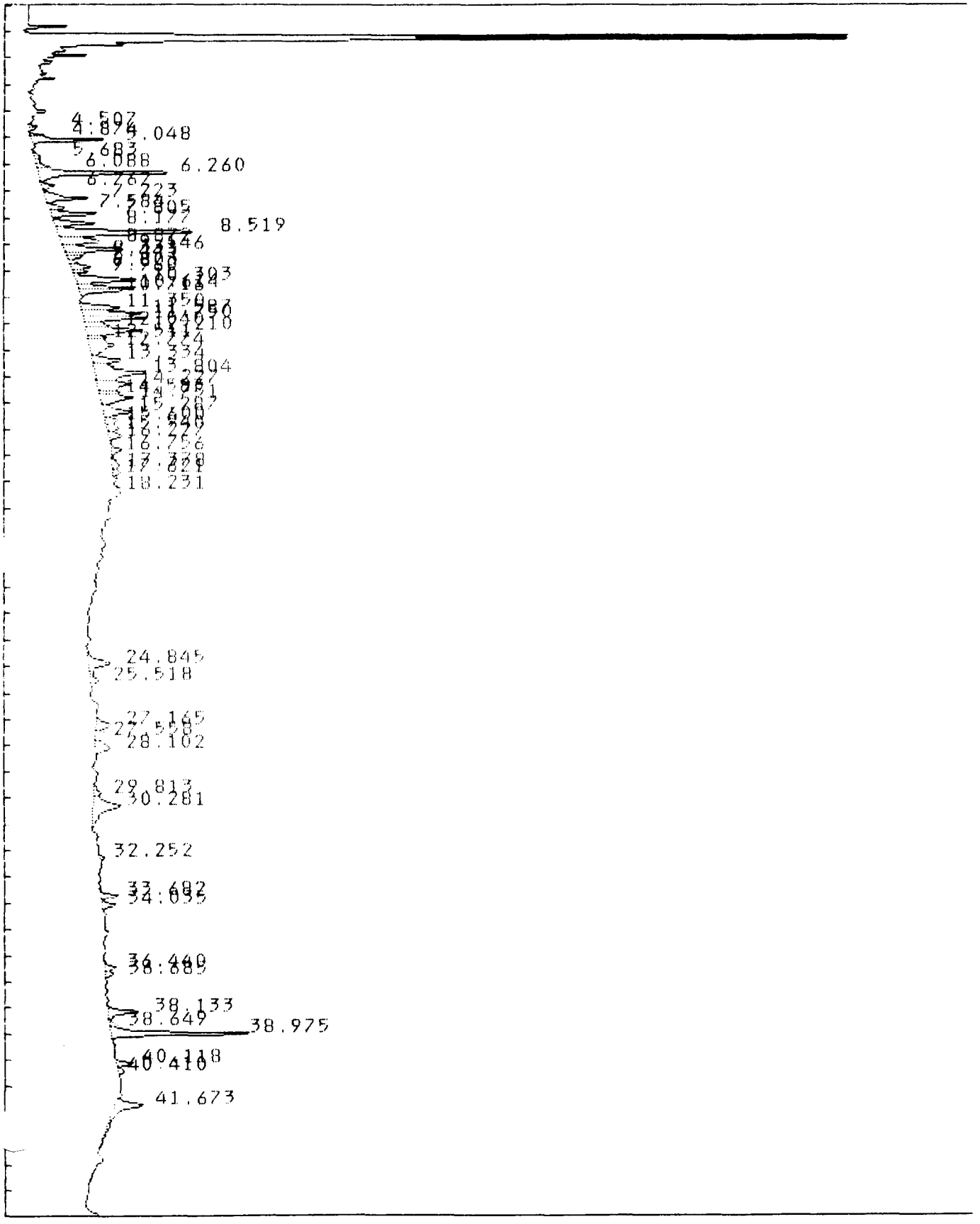
Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name	
90	24.06	24.07	.165	80143	VV	.02473	~~gamma-Chlordane~~	DNC
91	24.22		.090	15027	VV	0.00000		
92	24.37		.102	58635	VV	0.00000		
93	24.47		.170	95276	VV	0.00000		
94	24.90		.183	63927	VV	0.00000		
95	25.06		.096	40522	VV	0.00000		
96	25.39		.179	70408	VV	0.00000		
97	25.54	25.53	.109	32754	VV	.01264	~~4,4'-DDE~~	BQL
98	25.73		.169	44166	VV	0.00000		
99	25.90		.150	55065	VB	0.00000		
100	26.37		.181	48344	BV	0.00000		
101	26.64		.150	33045	VV	0.00000		
102	26.82		.185	44897	VV	0.00000		
103	26.99	27.05	.217	40868	VV	.02162	~~Endrin~~	DNC
104	27.46	27.46	.116	77485	VV	.03945	~~4,4'-DDD~~	
105	27.63	27.67	.178	47965	VV	.02192	~~Endosulfan~~ II	
106	27.87		.135	45900	VV	0.00000		
107	27.99		.082	18136	VV	0.00000		
108	28.10		.160	42339	VV	0.00000		
109	28.34		.197	37391	VV	0.00000		
110	28.83		.262	79330	VV	0.00000		
111	29.02		.197	42023	VV	0.00000		
112	29.28	29.22	.176	27299	VV	.01261	~~Endosulfan~~ sulfate	
113	29.46		.113	19218	VV	0.00000		BQL
114	29.60		.216	35734	VV	0.00000		
115	30.09		.163	9642	VV	0.00000		
116	32.49		.297	7011	PV	0.00000		
117	36.04		.165	5108	VB	0.00000		
118	40.21	#40.20	.214	133391	BV	.02852	Decachlorobiphenyl	

Total Area : 5057175 Total PPB : .235

Report Time : 0854 09Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_080.RES

RPC
3/9/95

Sample Name : 950309804 Inj on 2320 08Mar1995
Result File : /RESULT/P2030195_064.RES INSTRUMENT : HP5890P2
olumn Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report 2 2 0662

Sample Name : 950309804 Report No : 87.00
sult File : /RESULT/P2030195_064.RES
lumn Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 2320 08Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 54 Bottle no. : 54

% Dil-Fact
20.00

Run Status : RunStatusOK
EndOffBaseline

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.51		.080	3293	PV	0.00000	
2	4.87		.093	6503	PV	0.00000	
3	5.05		.089	35280	VV	0.00000	
4	5.68		.141	4362	VV	0.00000	
5	6.09		.116	6401	VV	0.00000	
6	6.26	6.26	.136	92177	VV	.04283	Tetrachloro-m-xylene
7	6.76		.149	9063	VV	0.00000	
8	7.22		.160	31420	PV	0.00000	
9	7.58		.141	10811	VV	0.00000	
10	7.81		.131	27003	VV	0.00000	
1	8.18		.141	26745	VV	0.00000	
12	8.52		.176	107798	VV	0.00000	
13	8.87		.188	32244	VV	0.00000	
14	9.15		.164	45485	VV	0.00000	
15	9.33		.110	8737	VV	0.00000	
16	9.44		.100	6182	VV	0.00000	
17	9.80		.154	12996	VV	0.00000	
18	9.96		.099	7156	VV	0.00000	
19	10.30		.213	58620	VV	0.00000	
20	10.61		.132	32835	VV	0.00000	
21	10.72		.113	20220	VV	0.00000	
22	11.35	11.37	.183	29753	BV	.01642	~~gamma-BHC~~ (Lindane) ONC
23	11.59		.151	37828	VV	0.00000	
24	11.75		.158	43739	VV	0.00000	
25	12.04		.132	14134	VV	0.00000	
26	12.21	12.21	.210	50858	VV	.01996	~~Heptachlor~~ ONC
27	12.51		.118	10012	VV	0.00000	
28	12.77		.356	40536	VV	0.00000	
29	13.33	13.33	.194	25248	VV	.01292	~~Aldrin~~ High % D
30	13.80		.319	69294	VV	0.00000	KS 3/9/95
31	14.23		.285	41073	VV	0.00000	
32	14.58		.134	12122	VV	0.00000	
33	14.75	14.79	.225	32461	VV	.02311	~~beta-BHC~~ ONC
34	15.29		.218	27292	VV	0.00000	
35	15.60		.229	11736	VV	0.00000	
36	15.94	15.96	.226	11247	VV	.00681	~~delta-BHC~~ ~~ONC~~ BQL

APC
3/9/95

IEA Pesticide Standard Report

2 2 0663

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
37	16.23		.231	12707	VB	0.00000	
8	16.76	16.75	.205	9009	BV	.00383	~~Heptachlor~~ epoxide
39	17.38		.269	8409	VV	0.00000	BQL
40	17.62		.188	6262	VV	0.00000	
41	18.23		.135	1997	PV	0.00000	
42	24.84		.302	27800	PV	0.00000	
43	25.52		.305	11160	VB	0.00000	
44	27.17		.286	17407	BV	0.00000	
45	27.56		.318	14684	VV	0.00000	
46	28.10		.338	21274	VV	0.00000	
47	29.81		.240	7767	PV	0.00000	
48	30.28		.434	50276	VV	0.00000	
49	32.25		.123	2788	PB	0.00000	
50	33.68		.161	12471	PV	0.00000	
51	34.04		.173	10438	VV	0.00000	
52	36.44		.189	8430	BV	0.00000	
53	36.69		.171	5401	VV	0.00000	
54	38.13		.185	24311	VV	0.00000	
55	38.65		.178	5669	VV	0.00000	
56	38.98	#38.97	.146	91382	VV	.02922	Decachlorobiphenyl
57	40.12		.165	11499	PV	0.00000	
58	40.41		.173	4688	VV	0.00000	
59	41.67		.338	39630	VV	0.00000	

Total Area : 1448120 Total PPB : .155

Report Time : 0007 09Mar1995
Method : /METHOD/PZ030195CLP.MTH
Result File : /RESULT/PZ030195_064.RES

3/9/95

6LCD

LOW CONC. WATER PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Instrument ID: HP5890P1 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:RTX-35 ID: 0.53 (mm) Date(s) Analyzed: 03/02/95

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	15.60	15.60	15.60	15.60	15.55	15.65
beta-BHC	17.90	17.90	17.89	17.90	17.85	17.95
delta-BHC	19.61	19.61	19.61	19.61	19.56	19.66
gamma-BHC (Lindane)	17.50	17.50	17.50	17.50	17.45	17.55
Heptachlor	19.38	19.38	19.38	19.38	19.33	19.43
Aldrin	20.94	20.93	20.93	20.93	20.88	20.98
Heptachlor epoxide	23.31	23.31	23.30	23.31	23.24	23.38
Endosulfan I	24.73	24.73	24.72	24.73	24.66	24.80
Dieldrin	25.84	25.83	25.83	25.83	25.76	25.90
4,4'-DDE	25.53	25.53	25.53	25.53	25.46	25.60
Endrin	27.05	27.05	27.05	27.05	26.98	27.12
Endosulfan II	27.68	27.67	27.67	27.67	27.60	27.74
4,4'-DDD	27.46	27.46	27.46	27.46	27.39	27.53
Endosulfan sulfate	29.22	29.22	29.22	29.22	29.15	29.29
4,4'-DDT	28.50	28.50	28.50	28.50	28.43	28.57
Methoxychlor	31.43	31.43	31.43	31.43	31.36	31.50
Endrin ketone	32.02	32.02	32.02	32.02	31.95	32.09
Endrin aldehyde	28.69	28.68	28.68	28.68	28.61	28.75
alpha-Chlordane	24.67	24.67	24.66	24.67	24.60	24.74
gamma-Chlordane	24.08	24.07	24.07	24.07	24.00	24.14
Tetrachloro-m-xylene	12.26	12.25	12.25	12.25	12.20	12.30
Decachlorobiphenyl	40.20	40.20	40.20	40.20	40.10	40.30

* 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.

6LCE

LOW CONC. WATER PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Instrument ID: HP5890P1 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:RTX-35 ID: 0.53 (mm) Date(s) Analyzed: 03/02/95

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	4021800	4084250	4974588	4360212	12.2
beta-BHC	3093400	3153550	3337675	3194875	4.0
delta-BHC	4230600	4275800	5013838	4506746	9.8
gamma-BHC (Lindane)	4180600	4280050	5144300	4534983	11.7
Heptachlor	7386200	5874600	5737125	6332642	14.4
Aldrin	5555600	5095700	4932788	5194696	6.2
Heptachlor epoxide	5624200	5411700	5463850	5499917	2.0
Endosulfan I	4964600	4831750	5025575	4940642	2.0
Dieldrin	4632000	4587000	5227594	4815531	7.4
4,4'-DDE	5178800	5181500	5806144	5388815	6.7
Endrin	3877700	3781450	3991406	3883519	2.7
Endosulfan II	4355200	4376950	4973525	4568558	7.7
4,4'-DDD	3595500	3928000	3962525	3828675	5.3
Endosulfan sulfate	4330300	4329050	4814888	4491412	6.2
4,4'-DDT	3799200	4048875	4744475	4197517	11.7
Methoxychlor	2184160	2104320	2032509	2106996	3.6
Endrin ketone	4684000	4785200	5443512	4970904	8.3
Endrin aldehyde	4484600	4323825	4430950	4413125	1.8
alpha-Chlordane	6481800	6248550	6375438	6368596	1.8
gamma-Chlordane	6719000	6480950	6533825	6577925	1.9
Tetrachloro-m-xylene	5184600	5044050	5268038	5165562	2.2
Decachlorobiphenyl	9831700	9353750	8969388	9384946	4.6

* 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%.

6LCD

LOW CONC. WATER PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91 2 2 0666

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Instrument ID: HP5890P2 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:DB-1701 ID: 0.53 (mm) Date(s) Analyzed: 03/02/95

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	9.74	9.74	9.73	9.74	9.69	9.79
beta-BHC	14.79	14.79	14.78	14.79	14.74	14.84
delta-BHC	15.96	15.96	15.95	15.96	15.91	16.01
gamma-BHC (Lindane)	11.37	11.37	11.37	11.37	11.32	11.42
Heptachlor	12.21	12.21	12.20	12.21	12.16	12.26
Aldrin	13.33	13.33	13.32	13.33	13.28	13.38
Heptachlor epoxide	16.75	16.75	16.74	16.75	16.68	16.82
Endosulfan I	18.43	18.43	18.42	18.43	18.36	18.50
Dieldrin	21.42	21.41	21.41	21.41	21.34	21.48
4,4'-DDE	20.56	20.56	20.55	20.56	20.49	20.63
Endrin	23.22	23.22	23.21	23.22	23.15	23.29
Endosulfan II	27.76	27.75	27.74	27.75	27.68	27.82
4,4'-DDD	27.93	27.92	27.91	27.92	27.85	27.99
Endosulfan sulfate	32.60	32.60	32.59	32.60	32.53	32.67
4,4'-DDT	29.06	29.06	29.05	29.06	28.99	29.13
Methoxychlor	33.26	33.25	33.25	33.25	33.18	33.32
Endrin ketone	34.65	34.65	34.64	34.65	34.58	34.72
Endrin aldehyde	30.63	30.63	30.62	30.63	30.56	30.70
alpha-Chlordane	19.44	19.44	19.43	19.44	19.37	19.51
gamma-Chlordane	19.02	19.02	19.01	19.02	18.95	19.09
Tetrachloro-m-xylene	6.26	6.26	6.25	6.26	6.21	6.31
Decachlorobiphenyl	38.97	38.97	38.97	38.97	38.87	39.07

* 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.

6LCE

LOW CONC. WATER PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

2 2 0667

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Instrument ID: HP5890P2 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column:DB-1701 ID: 0.53 (mm) Date(s) Analyzed: 03/02/95

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	3359800	3322100	4167338	3616412	13.2
beta-BHC	3541000	2809700	2893075	3081258	13.0
delta-BHC	3354000	3304150	3841162	3499771	8.5
gamma-BHC (Lindane)	3585400	3623300	4386162	3864954	11.7
Heptachlor	5634800	5095600	4849325	5193242	7.7
Aldrin	4161200	3909600	4356612	4142471	5.4
Heptachlor epoxide	5126200	4707850	4506062	4780038	6.6
Endosulfan I	4797200	4376250	4108812	4427421	7.8
Dieldrin	4176000	3788775	3734150	3899642	6.2
4,4'-DDE	3499400	3382000	3641781	3507727	3.7
Endrin	3997500	3673825	3629494	3766940	5.3
Endosulfan II	4293500	3914900	3992631	4067010	4.9
4,4'-DDD	2641100	2620725	2714962	2658929	1.9
Endosulfan sulfate	4257000	3954750	4085206	4098985	3.7
4,4'-DDT	2900400	2814450	2975538	2896796	2.8
Methoxychlor	1785880	1731085	1634162	1717042	4.5
Endrin ketone	3804800	3712325	4126138	3881088	5.6
Endrin aldehyde	3422500	3365875	3285412	3357929	2.0
alpha-Chlordane	5726000	5317650	5105388	5383012	5.9
gamma-Chlordane	5879600	5412400	5082700	5458233	7.3
Tetrachloro-m-xylene	4271400	4304550	4933112	4503021	8.3
Decachlorobiphenyl	6771900	6254325	5967419	6331215	6.4

* 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%.

6LCF

LOW CONC. WATER PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91 2 2 0668

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Instrument ID: HP5890P1 Date(s) Analyzed: 03/01/95 03/02/95

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	27.90	27.83	27.97	228034
		*2	29.04	28.97	29.11	110434
		*3	29.47	29.40	29.54	173692
		4				
		5				
Aroclor-1016	0.10	*1	15.26	15.19	15.33	155690
		*2	16.77	16.70	16.84	27070
		*3	17.35	17.28	17.42	416930
		4				
		5				
Aroclor-1221	0.20	*1	14.22	14.15	14.29	83825
		*2	14.94	14.87	15.01	58665
		*3	15.26	15.19	15.33	187300
		4				
		5				
Aroclor-1232	0.10	*1	19.28	19.21	19.35	284590
		*2	19.98	19.91	20.05	101930
		*3	22.16	22.09	22.23	123710
		4				
		5				
Aroclor-1242	0.10	*1	17.35	17.28	17.42	328200
		*2	18.64	18.57	18.71	146070
		*3	19.98	19.91	20.05	195370
		4				
		5				
Aroclor-1248	0.10	*1	20.85	20.78	20.92	332360
		*2	22.16	22.09	22.23	307970
		*3	23.41	23.34	23.48	458680
		4				
		5				
Aroclor-1254	0.10	*1	24.27	24.20	24.34	530900
		*2	25.70	25.63	25.77	257600
		*3	26.73	26.66	26.80	355750
		4				
		5				
Aroclor-1260	0.10	*1	26.15	26.08	26.22	315780
		*2	27.18	27.11	27.25	620420
		*3	30.55	30.48	30.62	798030
		4				
		5				

* Denotes required peaks

FORM VI LCP-3 6/91

6LCF

LOW CONC. WATER PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91 2 2 0669

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Instrument ID: HP5890P2 Date(s) Analyzed: 03/01/95 03/02/95

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	25.36	25.29	25.43	51948
		*2	27.35	27.28	27.42	101482
		*3	30.62	30.55	30.69	50376
		4				
		5				
Aroclor-1016	0.10	*1	8.53	8.46	8.60	128520
		*2	10.05	9.98	10.12	341170
		*3	11.01	10.94	11.08	122110
		4				
		5				
Aroclor-1221	0.20	*1	6.47	6.40	6.54	32845
		*2	7.70	7.63	7.77	61525
		*3	8.53	8.46	8.60	166565
		4				
		5				
Aroclor-1232	0.10	*1	10.05	9.98	10.12	148790
		*2	11.94	11.87	12.01	192020
		*3	13.39	13.32	13.46	158260
		4				
		5				
Aroclor-1242	0.10	*1	12.46	12.39	12.53	221250
		*2	13.40	13.33	13.47	342850
		*3	14.84	14.77	14.91	145610
		4				
		5				
Aroclor-1248	0.10	*1	13.37	13.30	13.44	503740
		*2	14.84	14.77	14.91	227430
		*3	18.06	17.99	18.13	265030
		4				
		5				
Aroclor-1254	0.10	*1	17.65	17.58	17.72	464510
		*2	20.15	20.08	20.22	284300
		*3	23.48	23.41	23.55	235650
		4				
		5				
Aroclor-1260	0.10	*1	27.68	27.61	27.77	576060
		*2	28.02	27.95	28.09	324750
		*3	30.13	30.06	30.20	336520
		4				
		5				

* Denotes required peaks

FORM VI LCP-3 6/91

6LCG
LOW CONC. WATER PESTICIDE ANALYTE RESOLUTION SUMMARY

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column (1):RTX-35 ID: 0.53(mm) Instrument ID (1): HP5890P1

EPA Sample No. (standard 1):RESC37 Lab Sample ID (1): RESC37

Date Analyzed (1): 03/01/95 Time Analyzed (1): 1645

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	12.27	100.0
02	gamma-Chlordane	24.09	100.0
03	Endosulfan I	24.74	100.0
04	4,4'-DDE	25.54	98.2
05	Dieldrin	25.85	100.0
06	Endosulfan sulfate	29.23	100.0
07	Methoxychlor	31.45	100.0
08	Endrin ketone	32.04	100.0
09	Decachlorobiphenyl	40.23	

C Column (2):DB-1701 ID: 0.53(mm) Instrument ID (2): HP5890P2

EPA Sample No. (standard 2):RESC36 Lab Sample ID (2): RESC36

Date Analyzed (2): 03/01/95 Time Analyzed (2): 1707

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.27	100.0
02	Endosulfan I	18.46	100.0
03	gamma-Chlordane	19.06	100.0
04	4,4'-DDE	20.61	100.0
05	Dieldrin	21.46	100.0
06	Endosulfan sulfate	32.62	100.0
07	Methoxychlor	33.27	100.0
08	Endrin ketone	34.67	100.0
09	Decachlorobiphenyl	38.99	

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%.

8LCD
LOW CONC. WATER PESTICIDE ANALYTICAL SEQUENCE

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 03/01/95 03/02/95

Instrument ID: HP5890P1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 12.25 DCB: 40.20

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC37	RESC37	03/01/95	1645	12.27	40.23
02	PEM1E	PEM1E	03/01/95	1740	12.26	40.21
03	AR166048	AR166048	03/01/95	1836	12.26	40.21
04	AR122148	AR122148	03/01/95	1932	12.26	40.21
05	AR123248	AR123248	03/01/95	2028	12.26	40.20
06	AR124248	AR124248	03/01/95	2123	12.26	40.21
07	AR124848	AR124848	03/01/95	2218	12.26	40.21
08	AR125448	AR125448	03/01/95	2312	12.26	40.21
09	TOXAPH48	TOXAPH48	03/02/95	0007	12.26	40.21
10	INDAL37	INDAL37	03/02/95	0102	12.26	40.20
11	INDBL37	INDBL37	03/02/95	0157	12.26	40.21
12	INDAM1I	INDAM1I	03/02/95	0252	12.25	40.20
13	INDBM1I	INDBM1I	03/02/95	0347	12.25	40.19
14	INDAH37	INDAH37	03/02/95	0442	12.25	40.20
15	INDBH37	INDBH37	03/02/95	0537	12.25	40.19
16	PIBLK1I	PIBLK1I	03/02/95	0632	12.25	40.18
17	PEM1I	PEM1I	03/02/95	0727	12.25	40.18
18	PIBLK7Z	PIBLK7Z	03/08/95	1456	12.26	40.20
19	PEM7Z	PEM7Z	03/08/95	1620	12.27	40.24
20	ZZZZZ	ZZZZZ	03/08/95	1722		
21	PBLK67	PBLK67	03/08/95	1817	12.28	40.23
22	PLCS66	PLCS66	03/08/95	1912	12.27	40.23
23	CS10	950309801	03/08/95	2007	12.27	40.22
24	CS10A	950309802	03/08/95	2102	12.27	40.21
25	CS15	950309803	03/08/95	2157	12.26	40.21
26	CS15A	950309804	03/08/95	2252	12.26	40.21
27	ZZZZZ	ZZZZZ	03/08/95	2347		
28	ZZZZZ	ZZZZZ	03/09/95	0042		
29	PIBLK1U	PIBLK1U	03/09/95	0137	12.25	40.18
30	INDAM1U	INDAM1U	03/09/95	0232	12.25	40.18
31	INDBM1U	INDBM1U	03/09/95	0327	12.25	40.18
32						

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.

8LCD
LOW CONC. WATER PESTICIDE ANALYTICAL SEQUENCE

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/01/95 03/02/95

Instrument ID: HP5890P2

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.26 DCB: 38.97

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	RESC36	RESC36	03/01/95	1707	6.27	38.99
02	PEM1G	PEM1G	03/01/95	1802	6.26	38.98
03	AR166047	AR166047	03/01/95	1856	6.26	38.98
04	AR122147	AR122147	03/01/95	1950	6.26	38.97
05	AR123247	AR123247	03/01/95	2045	6.26	38.97
06	AR124247	AR124247	03/01/95	2139	6.26	38.98
07	AR124847	AR124847	03/01/95	2234	6.26	38.98
08	AR125447	AR125447	03/01/95	2328	6.26	38.97
09	TOXAPH47	TOXAPH47	03/02/95	0023	6.26	38.97
10	INDAL36	INDAL36	03/02/95	0117	6.26	38.97
11	INDBL36	INDBL36	03/02/95	0211	6.26	38.98
12	INDAM1H	INDAM1H	03/02/95	0306	6.26	38.97
13	INDBM1H	INDBM1H	03/02/95	0400	6.26	38.97
14	INDAH36	INDAH36	03/02/95	0454	6.25	38.97
15	INDBH36	INDBH36	03/02/95	0549	6.25	38.97
16	PIBLK1H	PIBLK1H	03/02/95	0643	6.25	38.97
17	PEM1H	PEM1H	03/02/95	0738	6.25	38.97
18	PIBLK1S	PIBLK1S	03/08/95	1513	6.27	38.99
19	PEM1S	PEM1S	03/08/95	1607	6.26	38.98
20	ZZZZZ	ZZZZZ	03/08/95	1705		
21	ZZZZZ	ZZZZZ	03/08/95	1759		
22	PBLK67	PBLK67	03/08/95	1852	6.27	38.98
23	PLCS66	PLCS66	03/08/95	1946	6.26	38.98
24	CS10	950309801	03/08/95	2039	6.26	38.98
25	CS10A	950309802	03/08/95	2133	6.26	38.98
26	CS15	950309803	03/08/95	2227	6.26	38.98
27	CS15A	950309804	03/08/95	2320	6.26	38.98
28	ZZZZZ	ZZZZZ	03/09/95	0014		
29	ZZZZZ	ZZZZZ	03/09/95	0108		
30	PIBLK1T	PIBLK1T	03/09/95	0201	6.25	38.97
31	INDAM1T	INDAM1T	03/09/95	0255	6.25	38.97
32	INDBM1T	INDBM1T	03/09/95	0348	6.25	38.97

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.

7LCD

LOW CONC. WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 03/01/95 03/02/95

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

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

Client Sample No.(PEM): PEM1E Date Analyzed : 03/01/95

Lab Sample ID (PEM): PEM1E Time Analyzed : 1740

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	15.61	15.55	15.65	0.0099	0.0100	1.0
beta-BHC	17.90	17.85	17.95	0.0094	0.0100	6.0
gamma-BHC (Lindane)	17.50	17.45	17.55	0.0097	0.0100	3.0
Endrin	27.05	26.98	27.12	0.050	0.050	0.0
4,4'-DDT	28.50	28.43	28.57	0.11	0.10	10.0
Methoxychlor	31.44	31.36	31.50	0.24	0.25	4.0

,4'-DDT % breakdown (1): 7.9 Endrin % breakdown (1): 4.2

Combined % breakdown (1): 12.1

QC LIMITS

%D 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%

7LCD

LOW CONC. WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 03/01/95 03/02/95

Client Sample No.(PIBLK): PIBLK1I Date Analyzed : 03/02/95

Lab Sample ID (PIBLK): PIBLK1I Time Analyzed : 0632

Client Sample No.(PEM): PEM1I Date Analyzed : 03/02/95

Lab Sample ID (PEM): PEM1I Time Analyzed : 0727

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	15.59	15.55	15.65	0.0099	0.0100	1.0
beta-BHC	17.89	17.85	17.95	0.0097	0.0100	3.0
gamma-BHC (Lindane)	17.49	17.45	17.55	0.0096	0.0100	4.0
Endrin	27.04	26.98	27.12	0.047	0.050	6.0
4,4'-DDT	28.50	28.43	28.57	0.10	0.10	0.0
Methoxychlor	31.42	31.36	31.50	0.23	0.25	8.0

,4'-DDT % breakdown (1): 2.0 Endrin % breakdown (1): 11.8

Combined % breakdown (1): 13.8

QC LIMITS

%D 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%

7LCD

LOW CONC. WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 03/01/95 03/02/95

Client Sample No.(PIBLK): PIBLK7Z Date Analyzed : 03/08/95

Lab Sample ID (PIBLK): PIBLK7Z Time Analyzed : 1456

Client Sample No.(PEM): PEM7Z Date Analyzed : 03/08/95

Lab Sample ID (PEM): PEM7Z Time Analyzed : 1620

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	15.62	15.55	15.65	0.011	0.0100	10.0
beta-BHC	17.92	17.85	17.95	0.0098	0.0100	2.0
gamma-BHC (Lindane)	17.52	17.45	17.55	0.0100	0.0100	0.0
Endrin	27.06	26.98	27.12	0.047	0.050	6.0
4,4'-DDT	28.52	28.43	28.57	0.11	0.10	10.0
Methoxychlor	31.46	31.36	31.50	0.22	0.25	12.0

,4'-DDT % breakdown (1): 6.7 Endrin % breakdown (1): 3.2

Combined % breakdown (1): 9.9

QC LIMITS

%D 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%

7LCD

LOW CONC. WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/01/95 03/02/95

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

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

Client Sample No.(PEM): PEM1G Date Analyzed : 03/01/95

Lab Sample ID (PEM): PEM1G Time Analyzed : 1802

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	9.74	9.69	9.79	0.0100	0.0100	0.0
beta-BHC	14.79	14.74	14.84	0.011	0.0100	10.0
gamma-BHC (Lindane)	11.38	11.32	11.42	0.0098	0.0100	2.0
Endrin	23.22	23.15	23.29	0.046	0.050	8.0
4,4'-DDT	29.06	28.99	29.13	0.096	0.10	4.0
Methoxychlor	33.25	33.18	33.32	0.22	0.25	12.0

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

Combined % breakdown (1): 0.0

QC LIMITS

%D 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%

7LCD
LOW CONC. WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/01/95 03/02/95

Client Sample No.(PIBLK): PIBLK1H Date Analyzed : 03/02/95

Lab Sample ID (PIBLK): PIBLK1H Time Analyzed : 0643

Client Sample No.(PEM): PEM1H Date Analyzed : 03/02/95

Lab Sample ID (PEM): PEM1H Time Analyzed : 0738

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	9.73	9.69	9.79	0.0095	0.0100	5.0
beta-BHC	14.79	14.74	14.84	0.0097	0.0100	3.0
gamma-BHC (Lindane)	11.37	11.32	11.42	0.0094	0.0100	6.0
Endrin	23.21	23.15	23.29	0.047	0.050	6.0
4,4'-DDT	29.05	28.99	29.13	0.097	0.10	3.0
Methoxychlor	33.24	33.18	33.32	0.24	0.25	4.0

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

Combined % breakdown (1): 0.0

QC LIMITS

%D 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%

7LCD

LOW CONC. WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/01/95 03/02/95

Client Sample No.(PIBLK): PIBLK1S Date Analyzed : 03/08/95

Lab Sample ID (PIBLK): PIBLK1S Time Analyzed : 1513

Client Sample No.(PEM): PEM1S Date Analyzed : 03/08/95

Lab Sample ID (PEM): PEM1S Time Analyzed : 1607

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	9.74	9.69	9.79	0.0099	0.0100	1.0
beta-BHC	14.80	14.74	14.84	0.011	0.0100	10.0
gamma-BHC (Lindane)	11.38	11.32	11.42	0.0098	0.0100	2.0
Endrin	23.23	23.15	23.29	0.048	0.050	4.0
4,4'-DDT	29.06	28.99	29.13	0.10	0.10	0.0
Methoxychlor	33.26	33.18	33.32	0.23	0.25	8.0

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

Combined % breakdown (1): 0.0

QC LIMITS

%D 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%

7LCE

LOW CONC. WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column:RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 03/01/95 03/02/95

Client Sample No.(PIBLK): PIBLK1U Date Analyzed : 03/09/95

Lab Sample ID (PIBLK): PIBLK1U Time Analyzed : 0137

Client Sample No.(INDA): INDAM1U Date Analyzed : 03/09/95

Lab Sample ID (INDA): INDAM1U Time Analyzed : 0232

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	15.60	15.55	15.65	0.020	0.020	0.0
gamma-BHC (Lindane)	17.49	17.45	17.55	0.020	0.020	0.0
Heptachlor	19.37	19.33	19.43	0.019	0.020	5.0
Endosulfan I	24.72	24.66	24.80	0.019	0.020	5.0
Dieldrin	25.83	25.76	25.90	0.039	0.040	2.5
Endrin	27.04	26.98	27.12	0.037	0.040	7.5
4,4'-DDD	27.45	27.39	27.53	0.039	0.040	2.5
4,4'-DDT	28.49	28.43	28.57	0.038	0.040	5.0
Methoxychlor	31.43	31.36	31.50	0.190	0.200	5.0
Tetrachloro-m-xylene	12.25	12.20	12.30	0.020	0.020	0.0
Decachlorobiphenyl	40.18	40.10	40.30	0.039	0.040	2.5

Client Sample No.(INDB): INDBM1U Date Analyzed : 03/09/95

Lab Sample ID (INDB): INDBM1U Time Analyzed : 0327

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	17.89	17.85	17.95	0.020	0.020	0.0
delta-BHC	19.60	19.56	19.66	0.020	0.020	0.0
Aldrin	20.92	20.88	20.98	0.020	0.020	0.0
Heptachlor epoxide	23.30	23.24	23.38	0.020	0.020	0.0
4,4'-DDE	25.53	25.46	25.60	0.042	0.040	5.0
Endosulfan II	27.67	27.60	27.74	0.039	0.040	2.5
Endosulfan sulfate	29.21	29.15	29.29	0.040	0.040	0.0
Endrin ketone	32.01	31.95	32.09	0.040	0.040	0.0
Endrin aldehyde	28.68	28.61	28.75	0.040	0.040	0.0
alpha-Chlordane	24.66	24.60	24.74	0.020	0.020	0.0
gamma-Chlordane	24.07	24.00	24.14	0.019	0.020	5.0
Tetrachloro-m-xylene	12.25	12.20	12.30	0.022	0.020	10.0
Decachlorobiphenyl	40.18	40.10	40.30	0.040	0.040	0.0

QC LIMITS: %D of amounts in the Individual Mixes must be less than or equal to 25.0%.

7LCE

LOW CONC. WATER PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

GC Column:DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/01/95 03/02/95

Client Sample No.(PIBLK): PIBLK1T Date Analyzed : 03/09/95

Lab Sample ID (PIBLK): PIBLK1T Time Analyzed : 0201

Client Sample No.(INDA): INDAM1T Date Analyzed : 03/09/95

Lab Sample ID (INDA): INDAM1T Time Analyzed : 0255

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	9.73	9.69	9.79	0.019	0.020	5.0
gamma-BHC (Lindane)	11.36	11.32	11.42	0.019	0.020	5.0
Heptachlor	12.20	12.16	12.26	0.020	0.020	0.0
Endosulfan I	18.41	18.36	18.50	0.019	0.020	5.0
Dieldrin	21.40	21.34	21.48	0.040	0.040	0.0
Endrin	23.20	23.15	23.29	0.039	0.040	2.5
4,4'-DDD	27.91	27.85	27.99	0.040	0.040	0.0
4,4'-DDT	29.05	28.99	29.13	0.040	0.040	0.0
Methoxychlor	33.24	33.18	33.32	0.210	0.200	5.0
Tetrachloro-m-xylene	6.25	6.21	6.31	0.019	0.020	5.0
Decachlorobiphenyl	38.97	38.87	39.07	0.040	0.040	0.0

Client Sample No.(INDB): INDBM1T Date Analyzed : 03/09/95

Lab Sample ID (INDB): INDBM1T Time Analyzed : 0348

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	14.78	14.74	14.84	0.020	0.020	0.0
delta-BHC	15.95	15.91	16.01	0.019	0.020	5.0
Aldrin	13.32	13.28	13.38	0.019	0.020	5.0
Heptachlor epoxide	16.74	16.68	16.82	0.020	0.020	0.0
4,4'-DDE	20.55	20.49	20.63	0.039	0.040	2.5
Endosulfan II	27.74	27.68	27.82	0.040	0.040	0.0
Endosulfan sulfate	32.59	32.53	32.67	0.039	0.040	2.5
Endrin ketone	34.64	34.58	34.72	0.041	0.040	2.5
Endrin aldehyde	30.62	30.56	30.70	0.040	0.040	0.0
alpha-Chlordane	19.43	19.37	19.51	0.020	0.020	0.0
gamma-Chlordane	19.00	18.95	19.09	0.020	0.020	0.0
Tetrachloro-m-xylene	6.25	6.21	6.31	0.021	0.020	5.0
Decachlorobiphenyl	38.97	38.87	39.07	0.040	0.040	0.0

QC LIMITS: %D of amounts in the Individual Mixes must be less than or equal to 25.0%.

PESTICIDE STANDARDS

COLUMN: RTX-35 INSTRUMENT: HP5890P1 1 ul injected

COMPOUND	NG INJECTED		
	LOW	MEDIUM	HIGH
INDA:			
alpha-BHC	0.005	0.020	0.080
Heptachlor	0.005	0.020	0.080
gamma-BHC	0.005	0.020	0.080
Endosulfan I	0.005	0.020	0.080
Dieldrin	0.010	0.040	0.160
Endrin	0.010	0.040	0.160
4,4'-DDD	0.010	0.040	0.160
4,4'-DDT	0.010	0.040	0.160
Methoxychlor	0.050	0.200	0.800
Tetrachloro-m-xylene	0.005	0.020	0.080
Decachlorobiphenyl	0.010	0.040	0.160
IDB:			
beta-BHC	0.005	0.020	0.080
delta-BHC	0.005	0.020	0.080
Aldrin	0.005	0.020	0.080
Heptachlor epoxide	0.005	0.020	0.080
alpha-Chlordane	0.005	0.020	0.080
gamma-Chlordane	0.005	0.020	0.080
4,4'-DDE	0.010	0.040	0.160
Endosulfan sulfate	0.010	0.040	0.160
Endrin aldehyde	0.010	0.040	0.160
Endrin ketone	0.010	0.040	0.160
Endosulfan II	0.010	0.040	0.160
Tetrachloro-m-Xylene	0.005	0.020	0.080
Decachlorobiphenyl	0.010	0.040	0.160

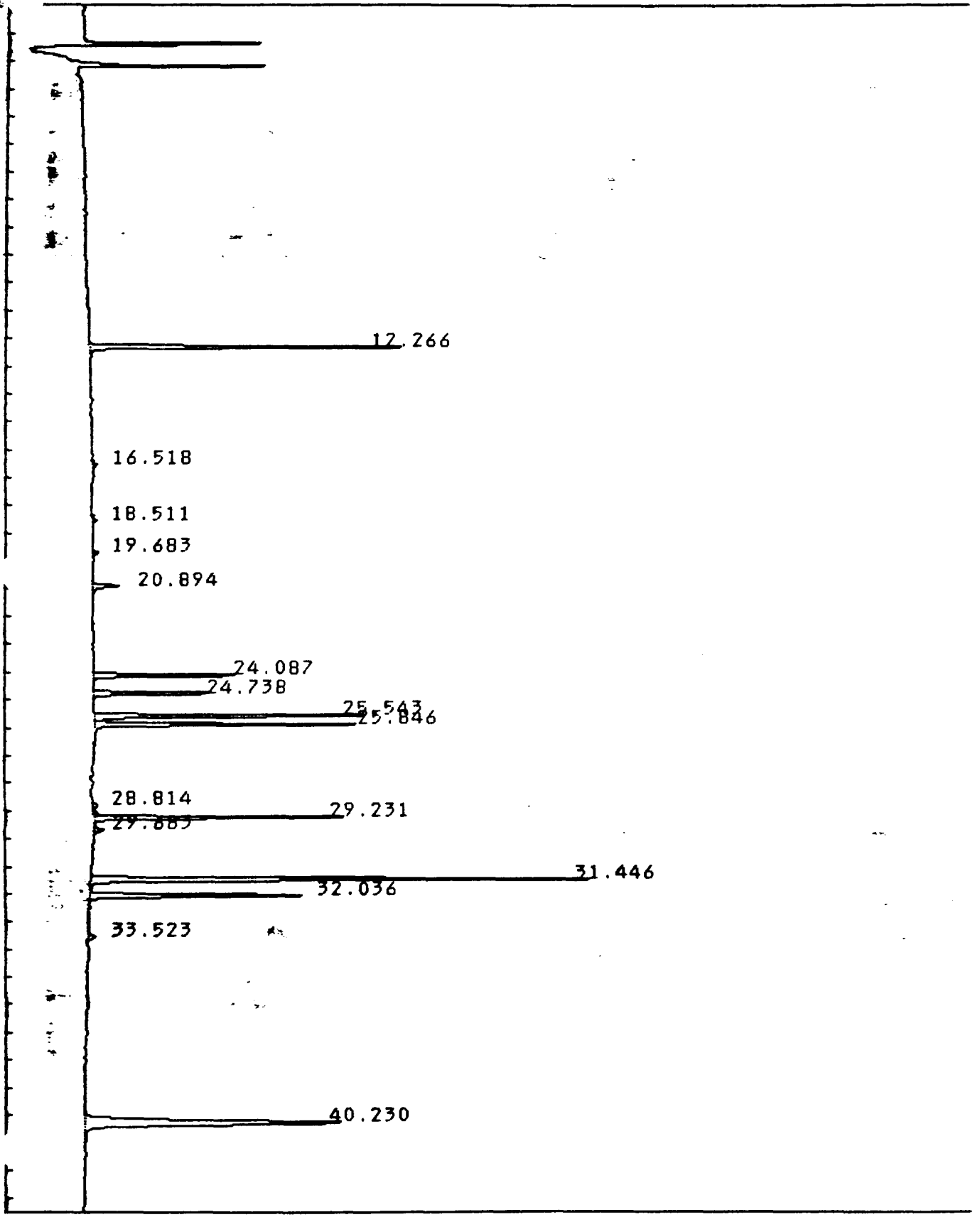
PESTICIDE STANDARDS

COLUMN: RTX-35 INSTRUMENT: HP5890P1 1 ul injected

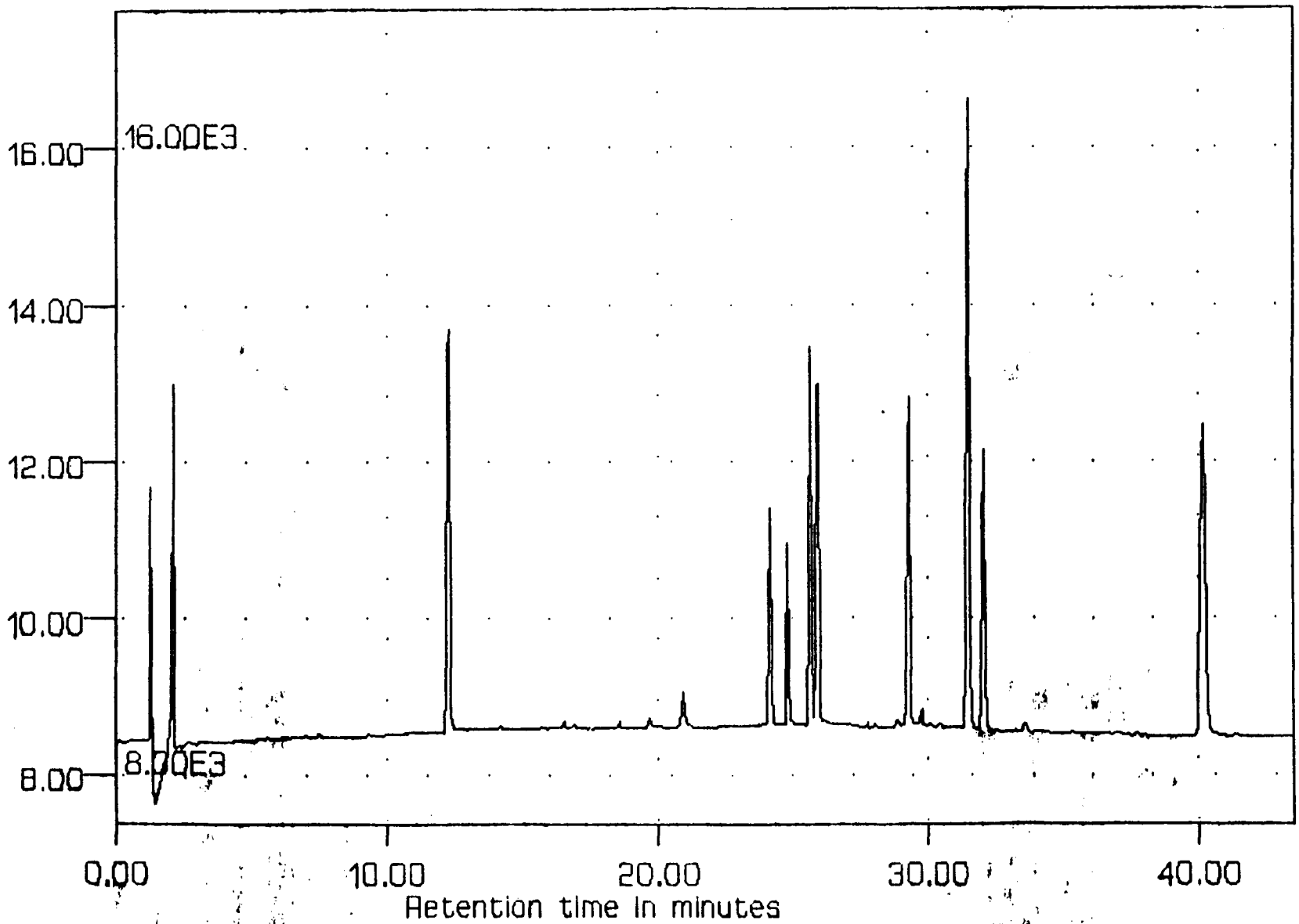
COMPOUND	NG INJECTED
RESC:	
gamma-Chlordane	0.010
Endosulfan I	0.010
p,p'-DDE	0.020
Dieldrin	0.020
Endosulfan sulfate	0.020
Endrin ketone	0.020
Methoxychlor	0.100
Tetrachloro-m-xylene	0.020
Decachlorobiphenyl	0.020
PEM:	
gamma-BHC	0.010
[illegible]pha-BHC	0.010
[illegible]'-DDT	0.100
beta-BHC	0.010
Endrin	0.050
Methoxychlor	0.250
tetrachloro-m-xylene	0.020
Decachlorobiphenyl	0.020
AR1660 (combination of AR1016 & AR1260)	0.200
AR1221	0.200
AR1232	0.100
AR1242	0.100
AR1248	0.100
AR1254	0.100
TOXAPH	0.500

IEA Pesticide Standard Report

Sample Name : RESC37 Inj on 1645 01Mar1995
Result File : /RESULT/P1030195_002.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul

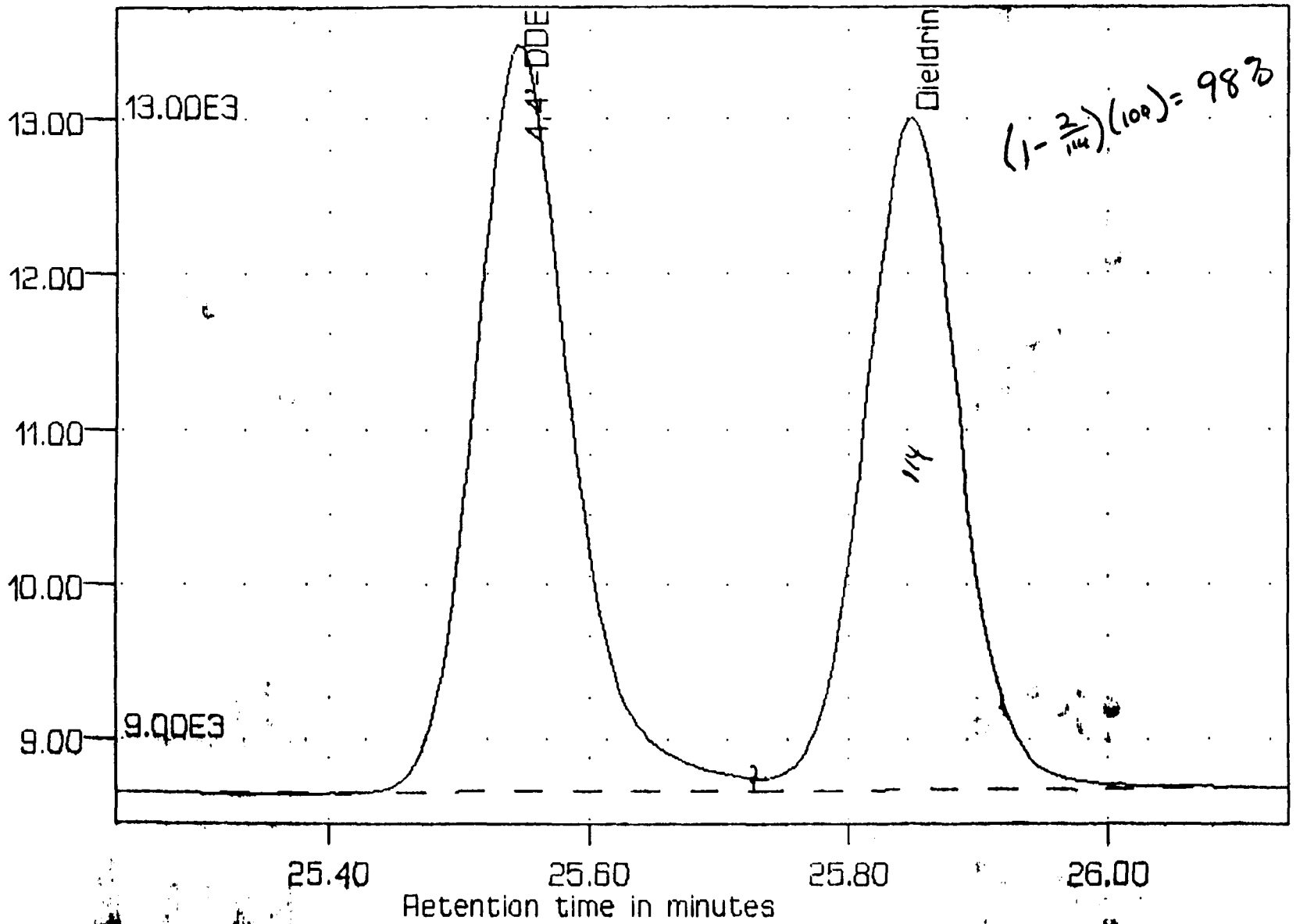


Sample : RESC37 Inj. On : 1645 01Mar1995



Result : P1030195_002 Method : P1030195CLP

Sample : RESC37 Inj. On : 1645 01Mar1995



Result : P1030195_002 Method : P1030195CLP

IEA Pesticide Standard Report

2 2 0636

Sample Name : RESC37 Report No : 51.020
Result File : /RESULT/P1030195_002.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 1645 01Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 1/ 2 Bottle no. : 2

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.27	12.25	.089	109456	BB	.21700	Tetrachloro-m-xylene
2	16.52		.106	2182	BB	0.00000	
3	18.51		.102	1738	BB	0.00000	
4	19.68		.107	2991	BB	0.00000	
5	20.89	20.93	.124	13466	BB	~~.02643~~	~~Aldrin~~
6	24.09	24.07	.092	61224	BB	.09447	gamma-Chlordane
7	24.74	24.73	.091	50693	BB	.10492	Endosulfan I
8	25.54	25.53	.087	100593	BV	.19414	4,4'-DDE
9	25.85	25.83	.088	92044	VB	.20066	Dieldrin
10	28.81		.178	2997	BV	0.00000	
11	29.23	29.22	.085	85800	VV	.19820	Endosulfan sulfate
12	29.68		.086	3863	PV	0.00000	
13	31.45	31.43	.105	202065	BV	.96024	Methoxychlor
14	32.04	32.02	.112	95763	VV	.20012	Endrin ketone
15	33.52		.145	4028	BV	0.00000	
16	40.23	#40.20	.216	206088	BB	.22033	Decachlorobiphenyl

Total Area : 1034991 Total PPB : 2.416

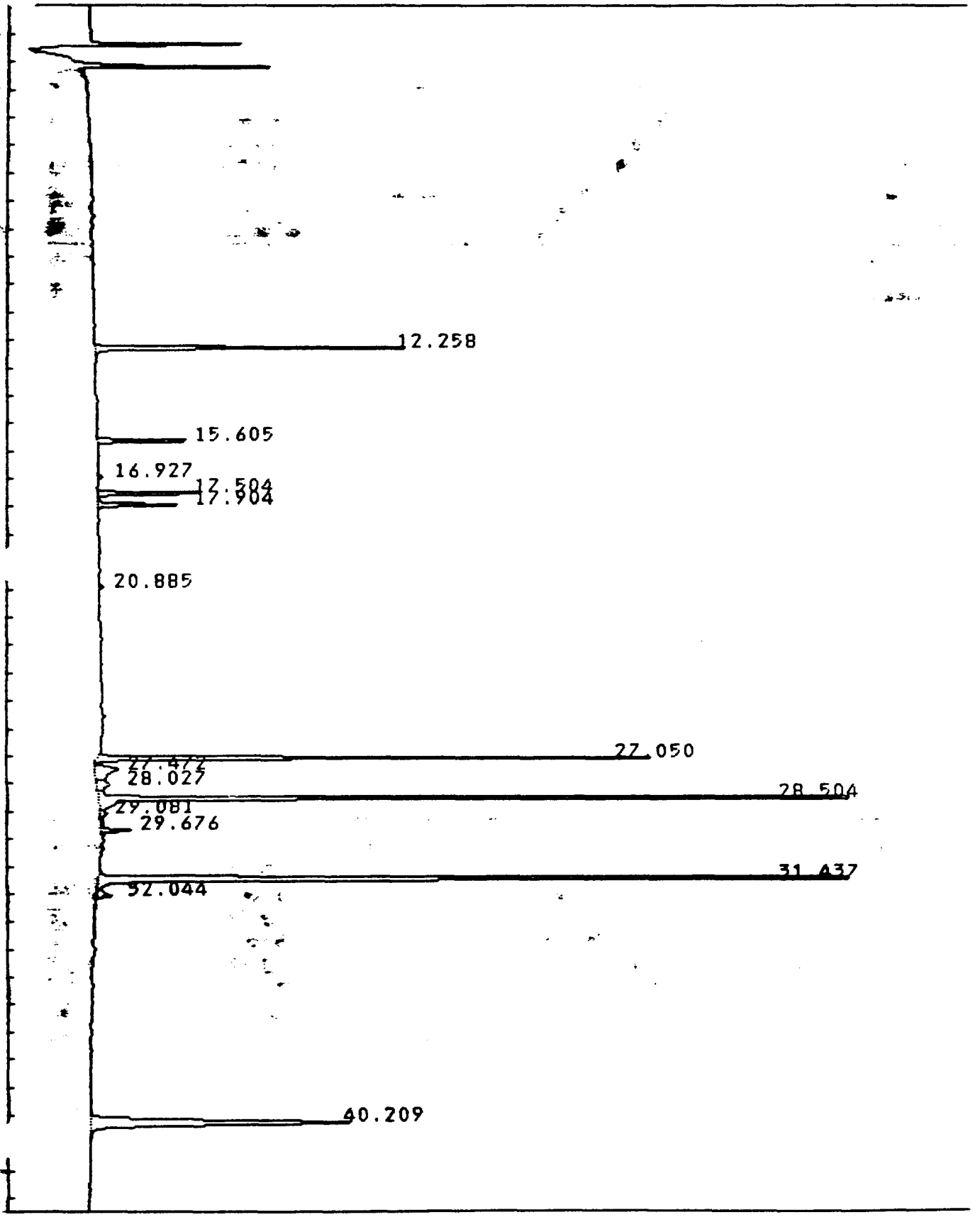
Report Time : 1400 03Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_002.RES

DD
3/7/95

IEA Pesticide Standard Report

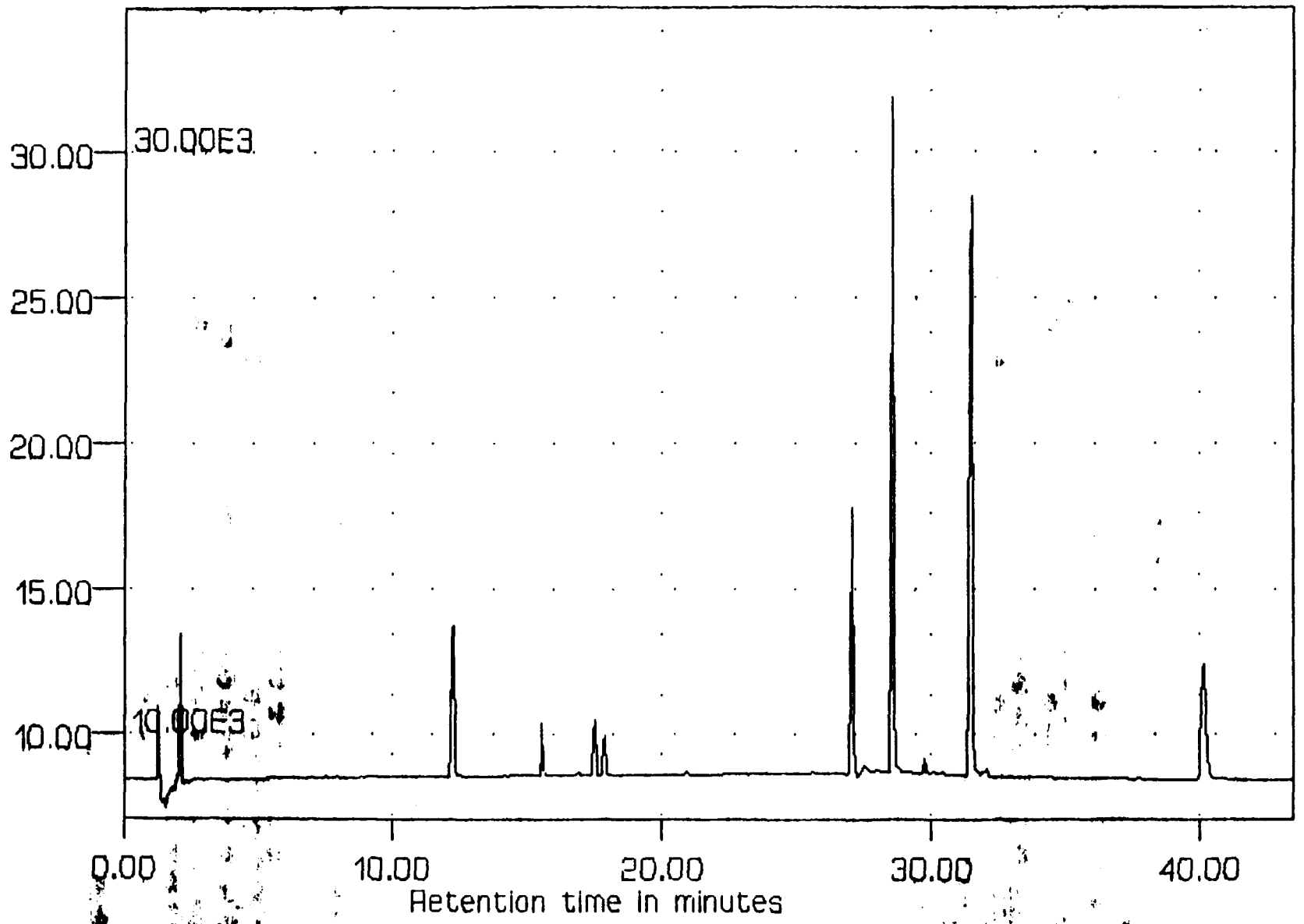
2 2 0607

Sample Name : PEM1E Inj on 1740 01Mar1995
Result File : /RESULT/P1030195_003.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



3 063

Sample : PEM1E Inj. On : 1740 01Mar1995



Result : P1030195_003 Method : P1030195CLP

IEA Pesticide Standard Report

2 2 0689

Sample Name : PEM1E
Report No : 52.020
Result File : /RESULT/P1030195_003.RES
Column Type : RTX-35 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 1740 01Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 1/ 3
Bottle no. : 3

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.26	12.25	.089	111768	BB	.22158	Tetrachloro-m-xylene
2	15.61	15.60	.091	40411	BB	.09894	alpha-BHC
3	16.93		.092	1850	BB	0.00000	
4	17.50	17.50	.090	41685	BV	.09739	gamma-BHC (Lindane)
5	17.90	17.90	.091	29644	VB	.09400	beta-BHC
6	20.89	20.93	.114	1791	BB	~~.00351~~	~~Aldrin~~
7	27.05	27.05	.085	188315	BV	.49800	Endrin
8	27.47	27.46	.351	30954	PV	.07880	4,4'-DDD
9	28.03		.265	12465	VV	0.00000	
10	28.50	28.50	.081	450142	VV	1.11177	4,4'-DDT
11	29.08		.254	6945	VV	0.00000	
2	29.68		.102	12636	VV	0.00000	
13	31.44	31.43	.105	499249	BV	2.37250	Methoxychlor
14	32.04	32.02	.174	9909	VB	.02071	Endrin ketone
15	40.21	#40.20	.216	206497	BB	.22076	Decachlorobiphenyl

Total Area : 1644260 Total PPB : 4.818

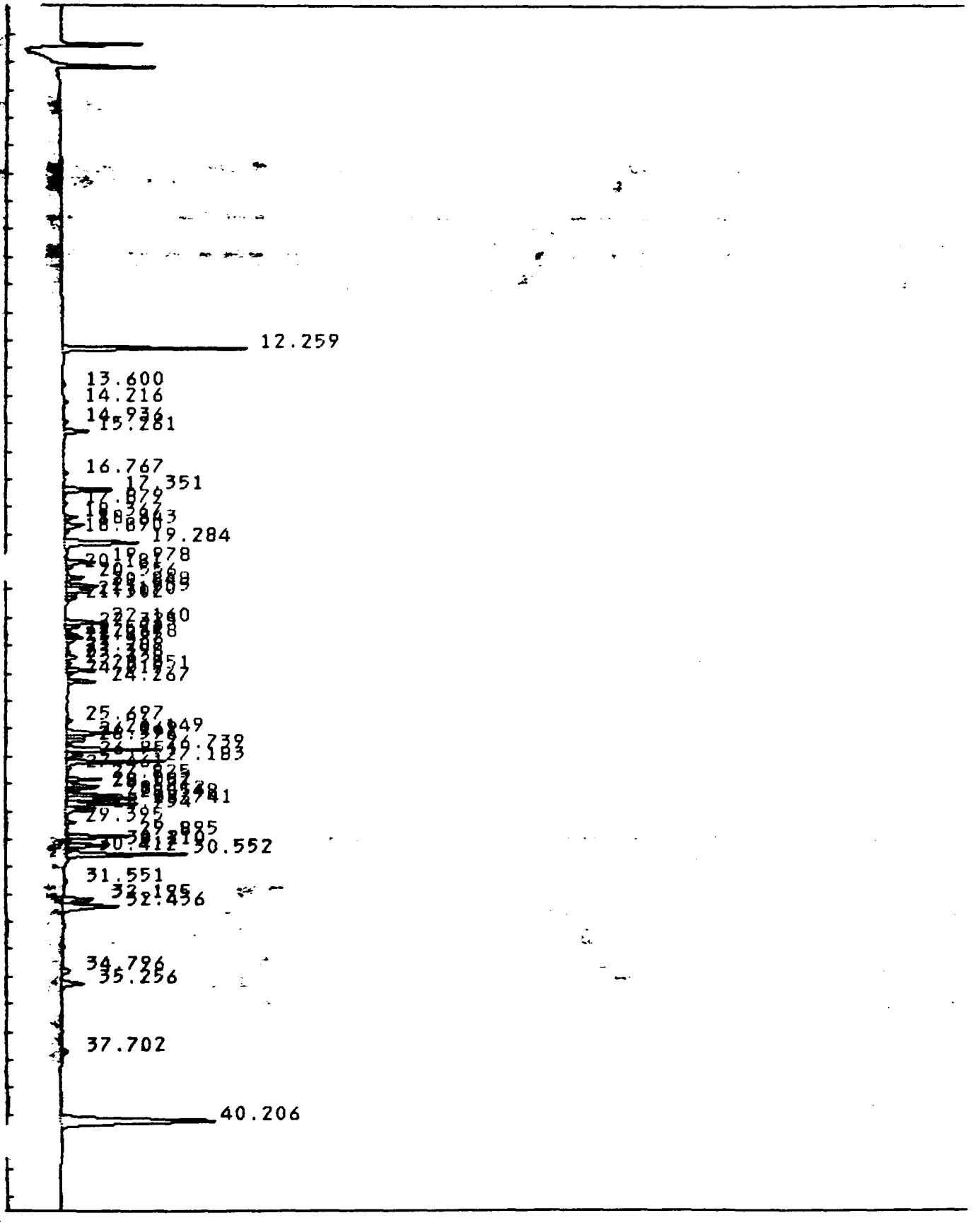
Report Time : 1405 03Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_003.RES

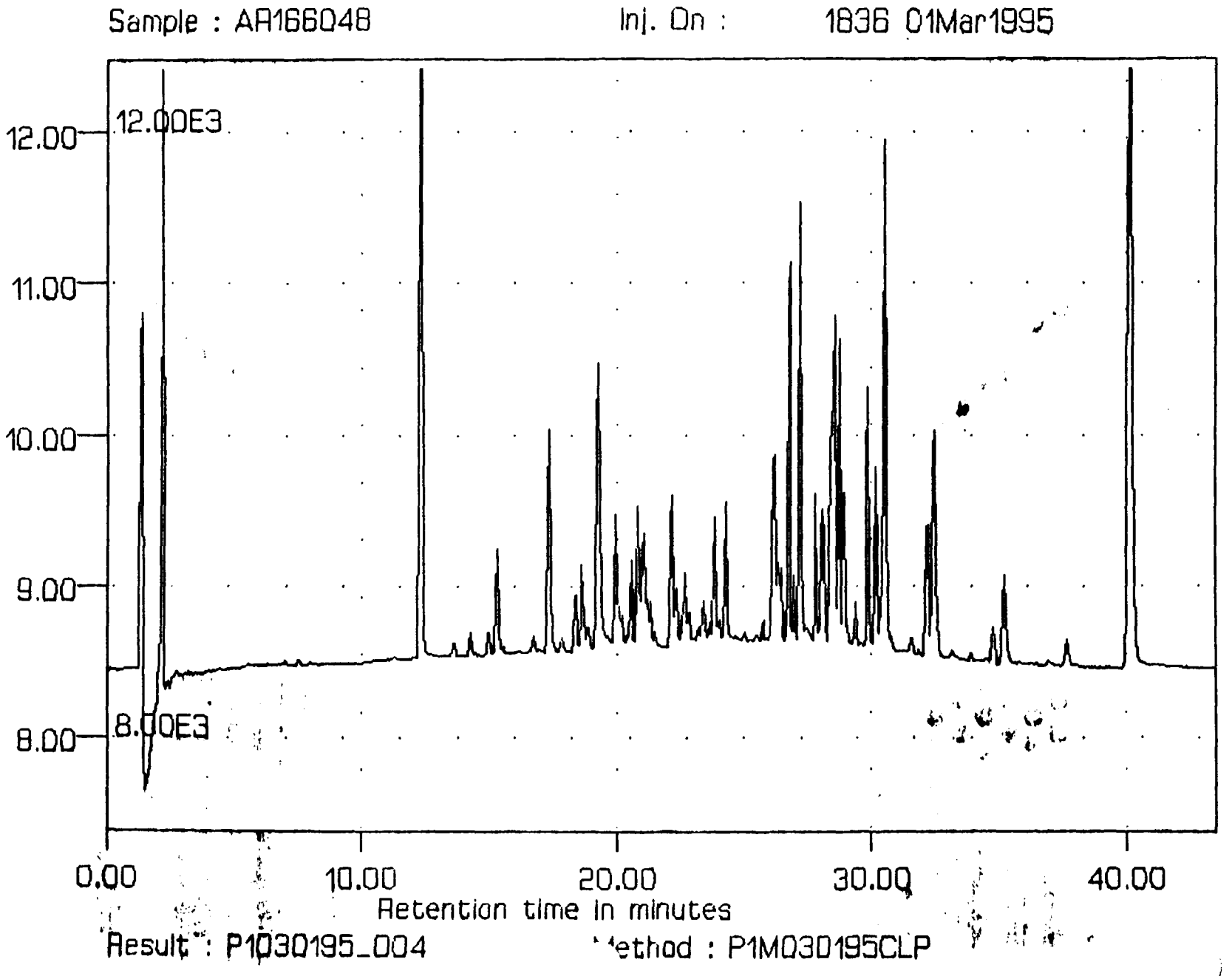
DD
3/7/95

IEA Pesticide Standard Report

2 2 0690

Sample Name : AR166048 Inj on 1836 01Mar1995
Result File : /RESULT/P1030195_004.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : AR166048
Inj. On : 1836 01Mar1995
12.00E3
8.00E3
12.00
11.00
10.00
9.00
8.00
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P1030195_004
Method : P1M030195CLP

IEA Pesticide Standard Report

Sample Name : AR166048 Report No : 53.01
sult File : /RESULT/P1030195_004.RES
olumn Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.52 Mins. Injected on 1836 01Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 2/ 1 Bottle no. : 1

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.26	12.25	.089	109845	BB	.21777	Tetrachloro-m-xylene
2	13.60		.111	2450	BB	0.00000	
3	14.22		.102	3520	BB	0.00000	
4	14.94		.099	3412	BB	0.00000	
5	15.26		.096	15569	BV	0.00000	
6	16.77		.102	2707	BB	0.00000	
7	17.35		.118	41693	BV	0.00000	
8	17.88		.125	2802	PB	0.00000	
9	18.37		.104	9231	BV	0.00000	
10	18.64		.141	18747	VV	0.00000	
11	18.89		.105	3308	VB	0.00000	
12	19.28		.155	69689	BV	0.00000	
13	19.98		.117	24292	VV	0.00000	
14	20.18		.105	4642	VV	0.00000	
15	20.56		.104	13771	VV	0.00000	
16	20.85		.105	22554	VV	0.00000	
17	21.05		.129	22281	VV	0.00000	
18	21.17		.078	5184	VV	0.00000	
19	21.30		.093	6038	VV	0.00000	
20	22.16		.104	24677	BV	0.00000	
21	22.32		.109	9865	VV	0.00000	
22	22.59		.089	5793	VV	0.00000	
23	22.70		.099	11303	VV	0.00000	
24	22.84		.108	5349	VV	0.00000	
25	23.21		.103	2377	VV	0.00000	
26	23.40		.122	7863	VV	0.00000	
27	23.64		.108	2968	VV	0.00000	
28	23.85		.091	17681	VV	0.00000	
29	24.02		.090	2685	VV	0.00000	
30	24.27		.093	20133	VV	0.00000	
31	25.70		.083	2728	PB	0.00000	
32	26.15		.107	31578	BV	0.00000	
33	26.27		.091	11221	VV	0.00000	
34	26.40		.106	12252	VV	0.00000	
35	26.74		.092	55544	VV	0.00000	
36	26.95		.089	9259	VV	0.00000	
37	27.18		.089	62042	VV	0.00000	

DD 3/7/95

IEA Pesticide Standard Report

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
38	27.46		.200	4815	VV	0.00000	
39	27.83		.086	20106	VV	0.00000	
40	28.08		.089	18781	VV	0.00000	
41	28.16		.077	14342	VV	0.00000	
42	28.41		.099	32855	VV	0.00000	
43	28.55		.090	47051	VV	0.00000	
44	28.74		.087	41968	VV	0.00000	
45	28.93		.101	24339	VV	0.00000	
46	29.39		.089	5915	VV	0.00000	
47	29.90		.095	58949	BV	0.00000	
48	30.21		.107	29754	VV	0.00000	
49	30.41		.077	6275	VV	0.00000	
50	30.55		.100	79803	VV	0.00000	
51	31.55		.123	2695	BV	0.00000	
52	32.20		.123	25665	VV	0.00000	
53	32.44		.149	53438	VB	0.00000	
54	34.80		.139	7783	VV	0.00000	
55	35.26		.159	21949	PB	0.00000	
56	37.70		.162	6520	BB	0.00000	
57	40.21	#40.20	.214	203402	BB	.21745	Decachlorobiphenyl

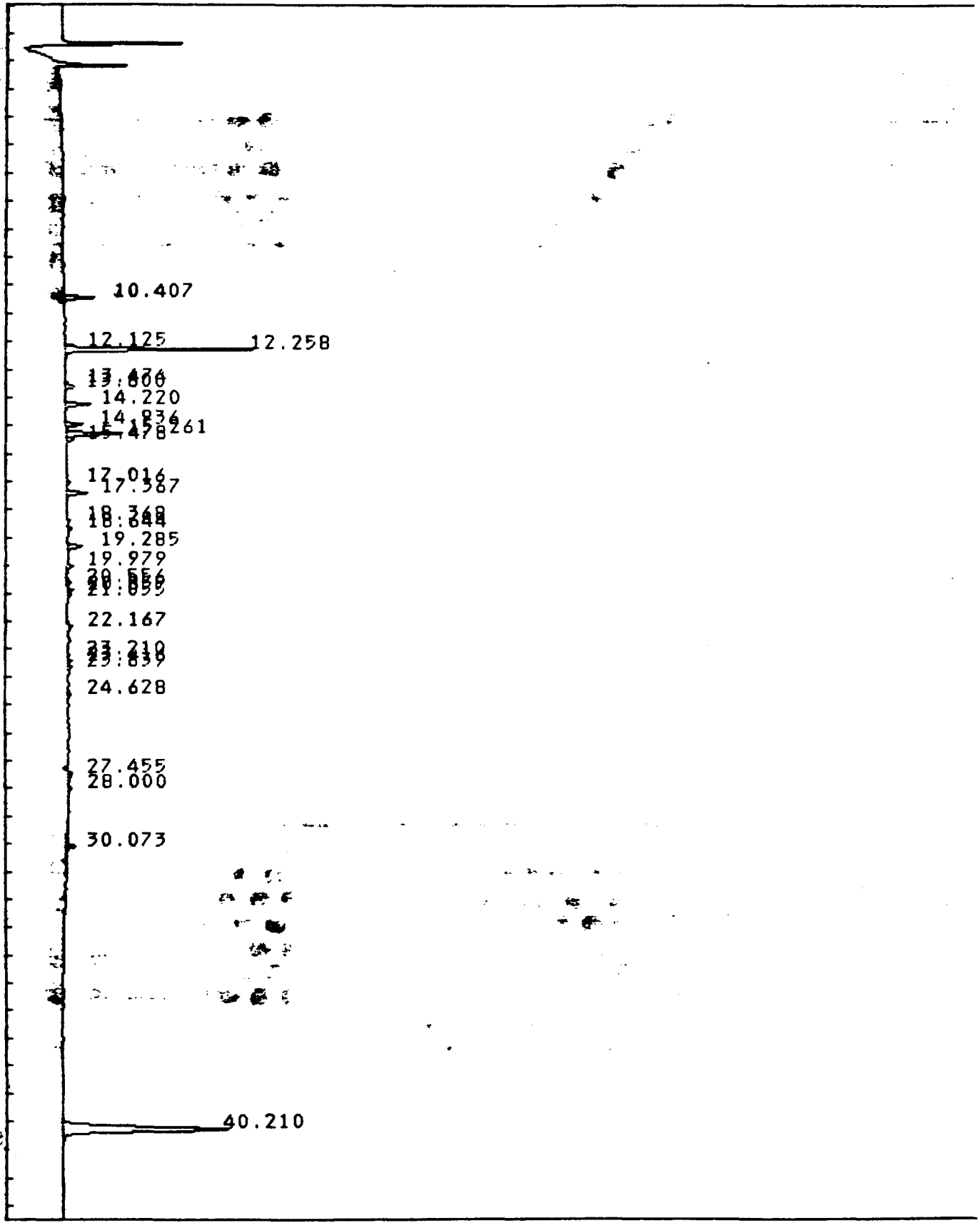
Total Area : 1363460 Total PPB : .435

Report Time : 1410 03Mar1995
Method : /METHOD/P1M030195CLP.MTH
Result File : /RESULT/P1030195_004.RES

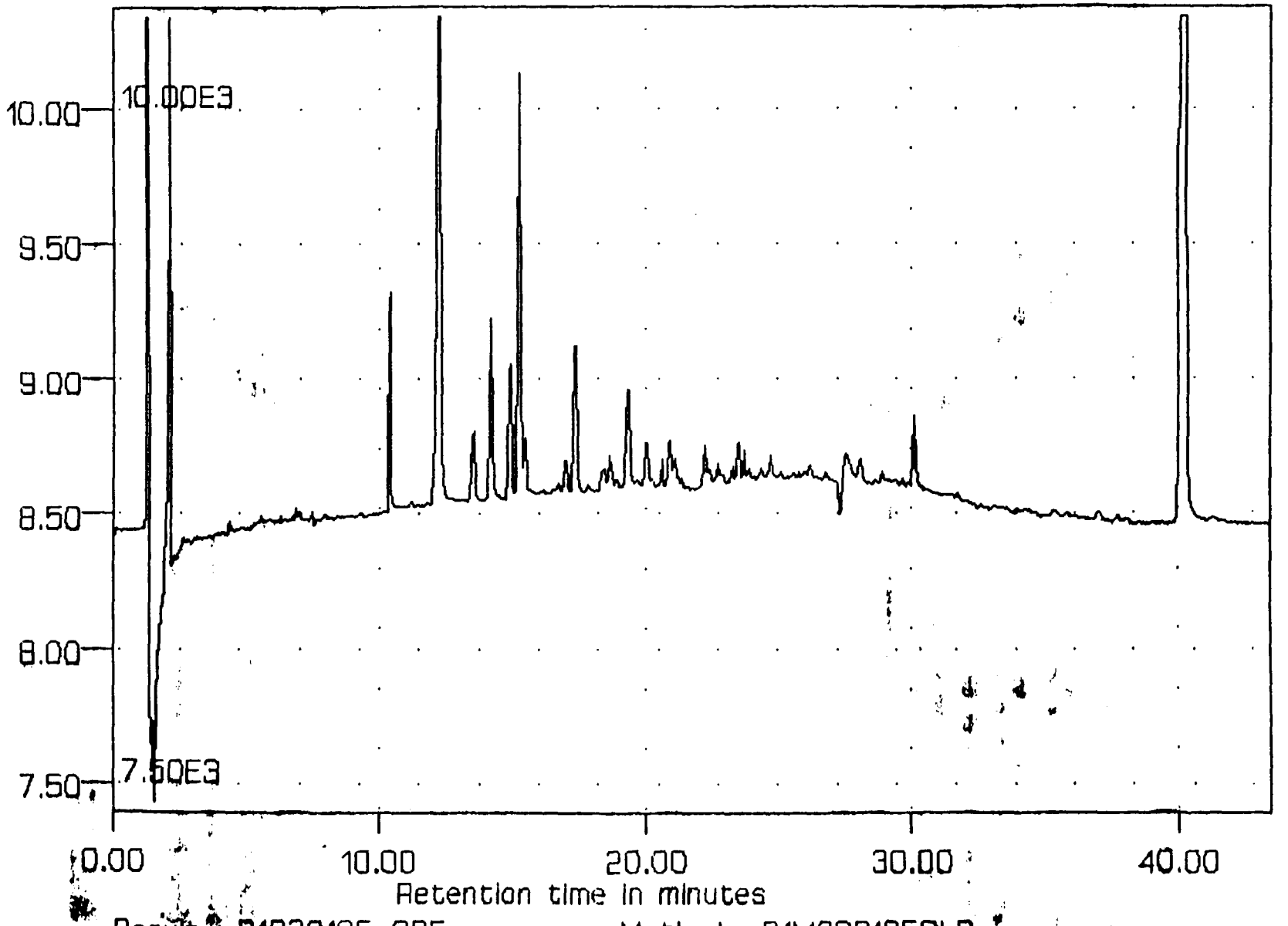
DD
3/7/95

IEA Pesticide Standard Report

Sample Name : AR122148 Inj on 1932 01Mar1995
Result File : /RESULT/P1030195_005.RES INSTRUMENT : HP5890P1
lumn Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



Sample : AR122148 Inj. On : 1932 01Mar1995



Result : P1030195_005 Method : P1M030195CLP

IEA Pesticide Standard Report 2 2 0696

Sample Name : AR122148 Report No : 54.01
sult File : /RESULT/P1030195_005.RES
lumn Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 1932 01Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 2/ 2 Bottle no. : 2

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	10.41		.095	18469	BB	0.00000	
2	12.13		.072	4331	BV	0.00000	
3	12.26	12.25	.090	111291	VB	.22064	Tetrachloro-m-xylene
4	13.47		.084	2118	BV	0.00000	
5	13.60		.104	6442	VB	0.00000	
6	14.22		.105	16765	BB	0.00000	
7	14.94		.100	11733	BV	0.00000	
8	15.26		.100	37460	VV	0.00000	
9	15.48		.109	5286	VB	0.00000	
10	17.02		.123	3374	BV	0.00000	
11	17.37		.125	16262	VB	0.00000	
12	18.37		.092	1670	BV	0.00000	
13	18.64		.125	3418	VV	0.00000	
14	19.28		.147	12459	BV	0.00000	
15	19.98		.138	5352	BV	0.00000	
16	20.56		.109	2582	PV	0.00000	
17	20.86		.121	4782	VV	0.00000	
18	21.05		.134	3037	VV	0.00000	
19	22.17		.059	1692	BV	0.00000	
20	23.21		.087	1296	PV	0.00000	
21	23.42		.099	3298	VV	0.00000	
22	23.64		.091	2192	VV	0.00000	
23	24.63		.130	2572	BB	0.00000	
24	27.45		.237	6405	BV	0.00000	
25	28.00		.164	3652	VV	0.00000	
26	30.07		.127	8049	VB	0.00000	
27	40.21	#40.20	.214	212358	BB	.22703	Decachlorobiphenyl

Total Area : 508347 Total PPB : .448

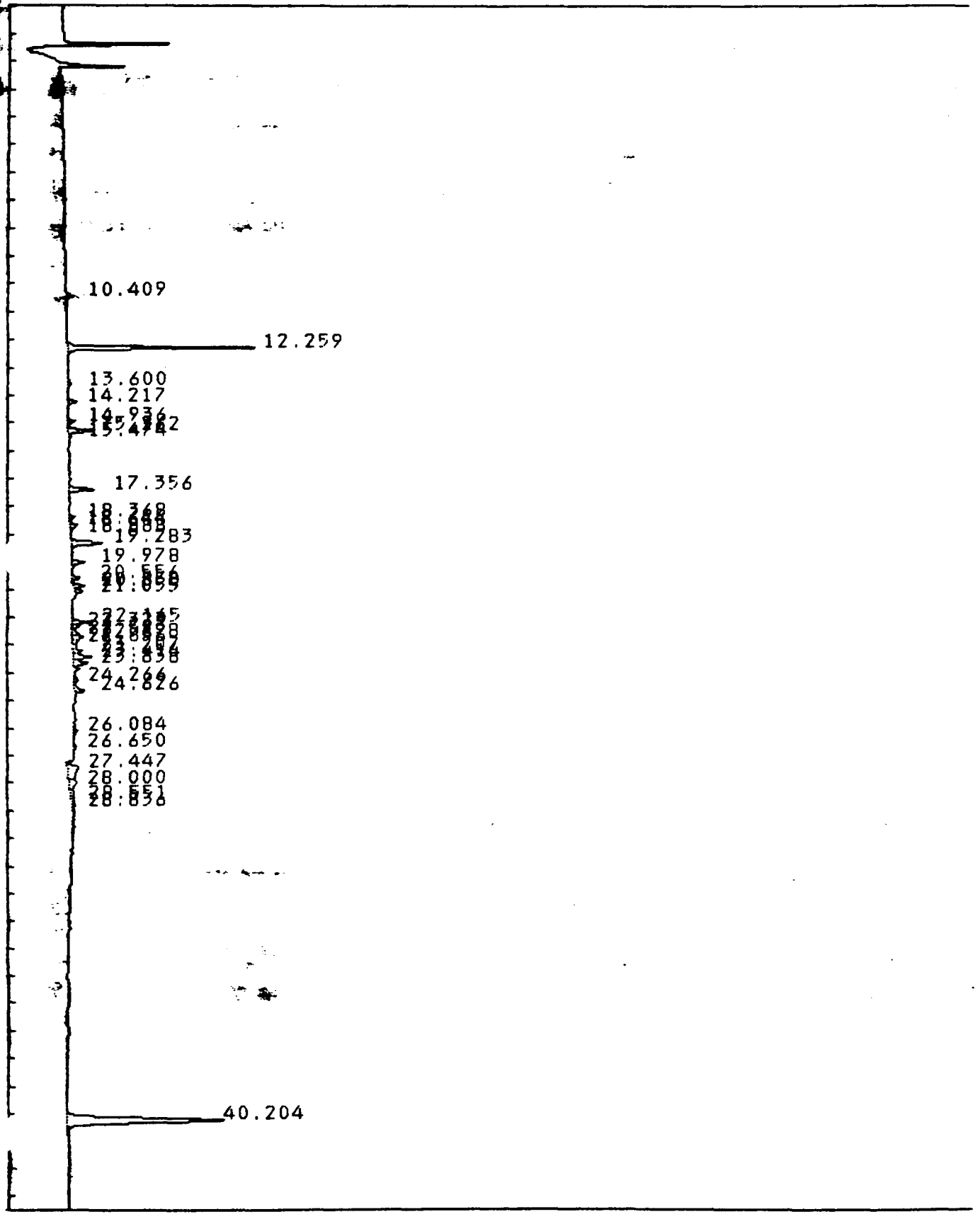
Report Time : 1417 03Mar1995
Method : /METHOD/P1M030195CLP.MTH
Result File : /RESULT/P1030195_005.RES

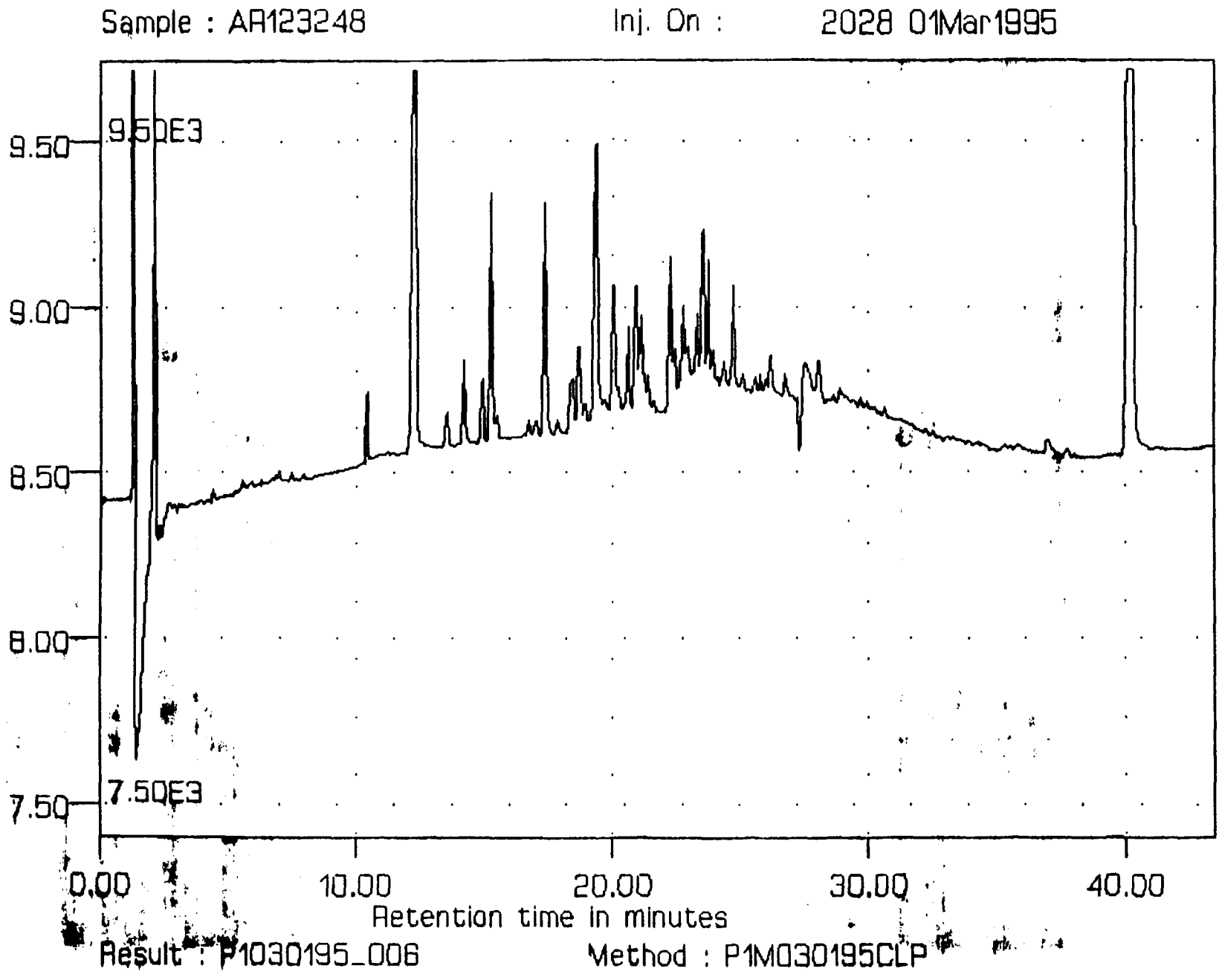
DD
3/7/95

IEA Pesticide Standard Report

2 2 0607

Sample Name : AR12324B Inj on 2028 01Mar1995
Result File : /RESULT/P1030195_006.RES INSTRUMENT : HP5890P1
lumn Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : AR123248
Inj. On : 2028 01Mar1995
9.50E3
7.50E3
9.50
9.00
8.50
8.00
7.50
Amplitude / 10E3
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P1030195_006
Method : P1M030195CLP

IEA Pesticide Standard Report

Sample Name : AR12324B
Report No : 55.01
sult File : /RESULT/P1030195_006.RES
olumn Type : RTX-35 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 2028 01Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 2/ 3 Bottle no. : 3

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	10.41		.092	4648	BB	0.00000	
2	12.26	12.25	.091	112086	BB	.22221	Tetrachloro-m-xylene
3	13.60		.102	2440	VB	0.00000	
4	14.22		.102	6112	BB	0.00000	
5	14.94		.099	4547	BV	0.00000	
6	15.26		.100	17905	VV	0.00000	
7	15.47		.111	1863	VB	0.00000	
8	17.36		.121	20281	BB	0.00000	
9	18.37		.109	4072	BV	0.00000	
10	18.64		.138	7852	VV	0.00000	
11	18.89		.098	1285	VB	0.00000	
12	19.28		.147	28459	BV	0.00000	
13	19.98		.114	10193	BV	0.00000	
14	20.56		.096	5563	VV	0.00000	
15	20.85		.099	7932	PV	0.00000	
16	21.05		.101	4828	VV	0.00000	
17	22.16		.111	12371	BV	0.00000	
18	22.32		.115	5024	VV	0.00000	
19	22.59		.116	5141	VV	0.00000	
20	22.70		.115	8420	VV	0.00000	
21	22.84		.150	6300	VV	0.00000	
22	23.21		.119	7634	VV	0.00000	
23	23.41		.122	15045	VV	0.00000	
24	23.64		.119	11892	VV	0.00000	
25	24.27		.172	4074	VV	0.00000	
26	24.63		.126	9613	VV	0.00000	
27	26.08		.116	3053	VB	0.00000	
28	26.65		.140	2276	BB	0.00000	
29	27.45		.440	27733	PV	0.00000	
30	28.00		.238	12622	VV	0.00000	
31	28.55		.355	6391	VV	0.00000	
32	28.84		.274	4444	VB	0.00000	
33	40.20	#40.20	.214	201852	BB	.21580	Decachlorobiphenyl

Total Area : 583951 Total PPB : .438

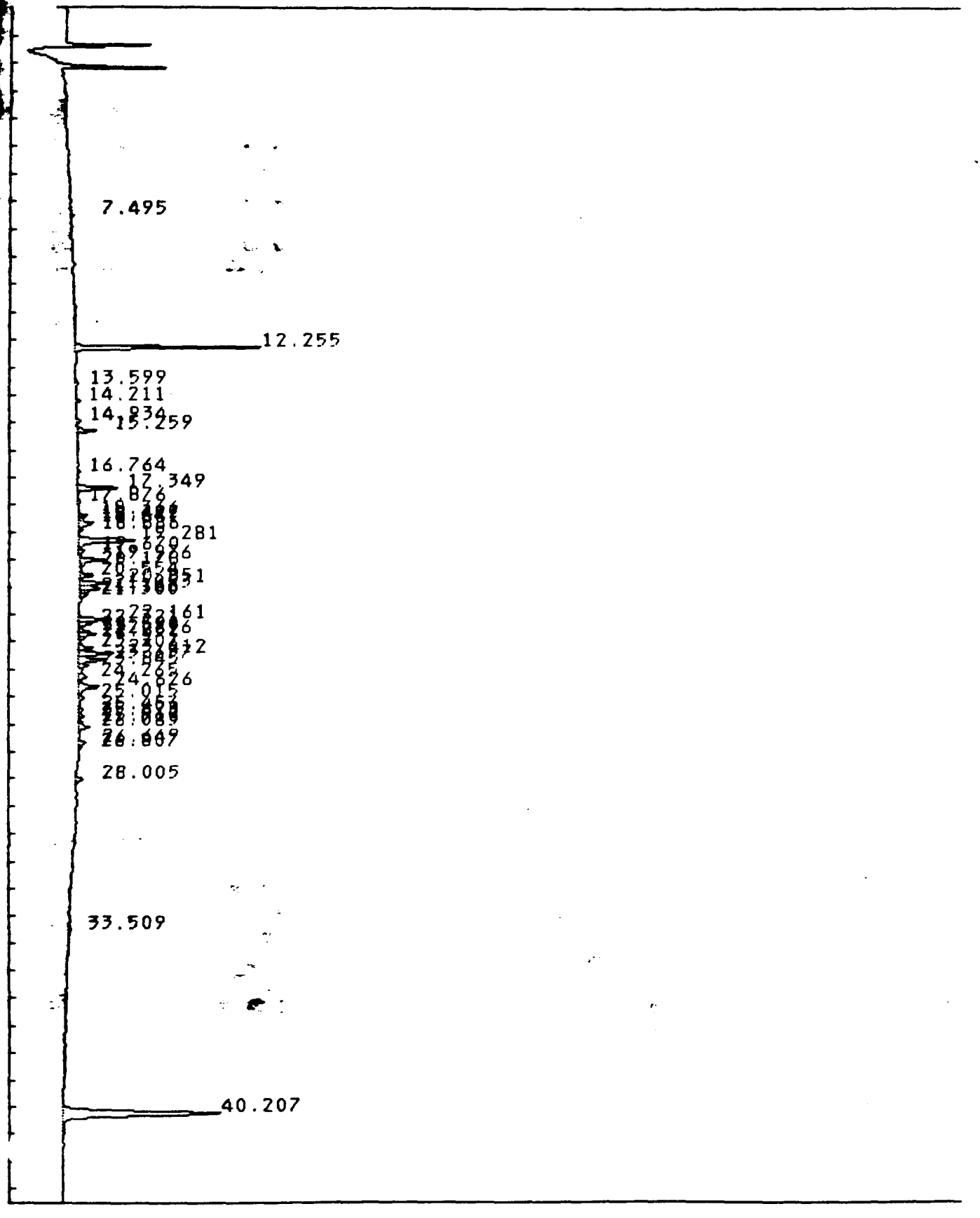
eport Time : 1423 03Mar1995
Method : /METHOD/P1M030195CLP.MTH
Result File : /RESULT/P1030195_006.RES

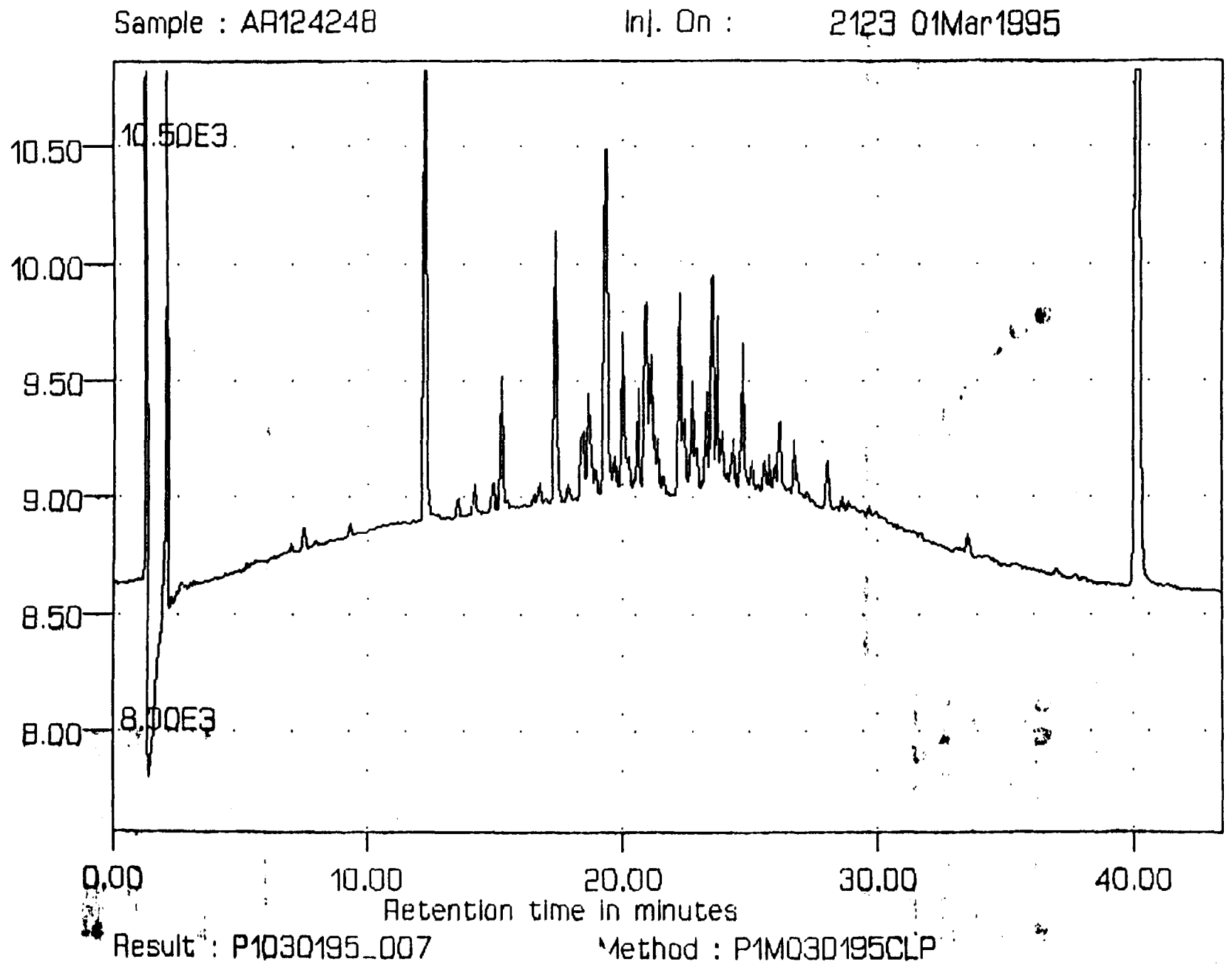
DD 3/7/95

IEA Pesticide Standard Report

2 2 0700

Sample Name : AR124248 Inj on 2123 01Mar1995
Result File : /RESULT/P1030195_007.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul





Amplitude / 10E3

IEA Pesticide Standard Report

2 2 0702

Sample Name : AR12424B
Report No : 56.01
Result File : /RESULT/P1030195_007.RES
Column Type : RTX-35 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 2123 01Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 2/ 4 Bottle no. : 4

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	7.49		.091	1945	BB	0.00000	
2	12.26	12.25	.089	109995	BB	.21807	Tetrachloro-m-xylene
3	13.60		.115	2142	BB	0.00000	
4	14.21		.103	3128	BB	0.00000	
5	14.93		.099	2825	BB	0.00000	
6	15.26		.097	13035	BV	0.00000	
7	16.76		.094	1865	BB	0.00000	
8	17.35		.118	32820	BB	0.00000	
9	17.88		.126	2198	BB	0.00000	
10	18.37		.084	5423	BV	0.00000	
11	18.50		.083	1925	VV	0.00000	
2	18.64		.141	14607	VV	0.00000	
13	18.89		.099	2408	VB	0.00000	
14	19.28		.154	54444	BV	0.00000	
15	19.67		.142	5251	VV	0.00000	
16	19.98		.120	19537	VV	0.00000	
17	20.18		.106	3773	VV	0.00000	
18	20.55		.105	11029	VV	0.00000	
19	20.85		.115	22069	VV	0.00000	
20	21.05		.126	17398	VV	0.00000	
21	21.17		.078	4143	VV	0.00000	
22	21.30		.093	4735	VV	0.00000	
23	22.16		.109	22633	BV	0.00000	
24	22.32		.117	9295	VV	0.00000	
25	22.59		.088	5397	VV	0.00000	
26	22.70		.102	11978	VV	0.00000	
27	22.83		.112	5535	VV	0.00000	
28	23.21		.102	10857	VV	0.00000	
29	23.41		.113	25678	VV	0.00000	
30	23.64		.112	20800	VV	0.00000	
31	23.85		.122	8215	VV	0.00000	
32	24.26		.122	7277	VV	0.00000	
33	24.63		.152	23948	VV	0.00000	
34	25.01		.126	4932	VV	0.00000	
35	25.46		.139	5062	VV	0.00000	
36	25.69		.114	5025	VV	0.00000	
37	25.92		.107	3458	VV	0.00000	

DD 3/7/95

IEA Pesticide Standard Report

2 2 0703

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
38	26.08		.137	10691	VV	0.00000	
39	26.65		.112	6617	VV	0.00000	
40	26.81		.118	2886	VB	0.00000	
41	28.01		.123	6244	PV	0.00000	
42	33.51		.150	3015	BV	0.00000	
43	40.21	#40.20	.214	202862	BB	.21688	Decachlorobiphenyl

Total Area : 739101 Total PPB : .435

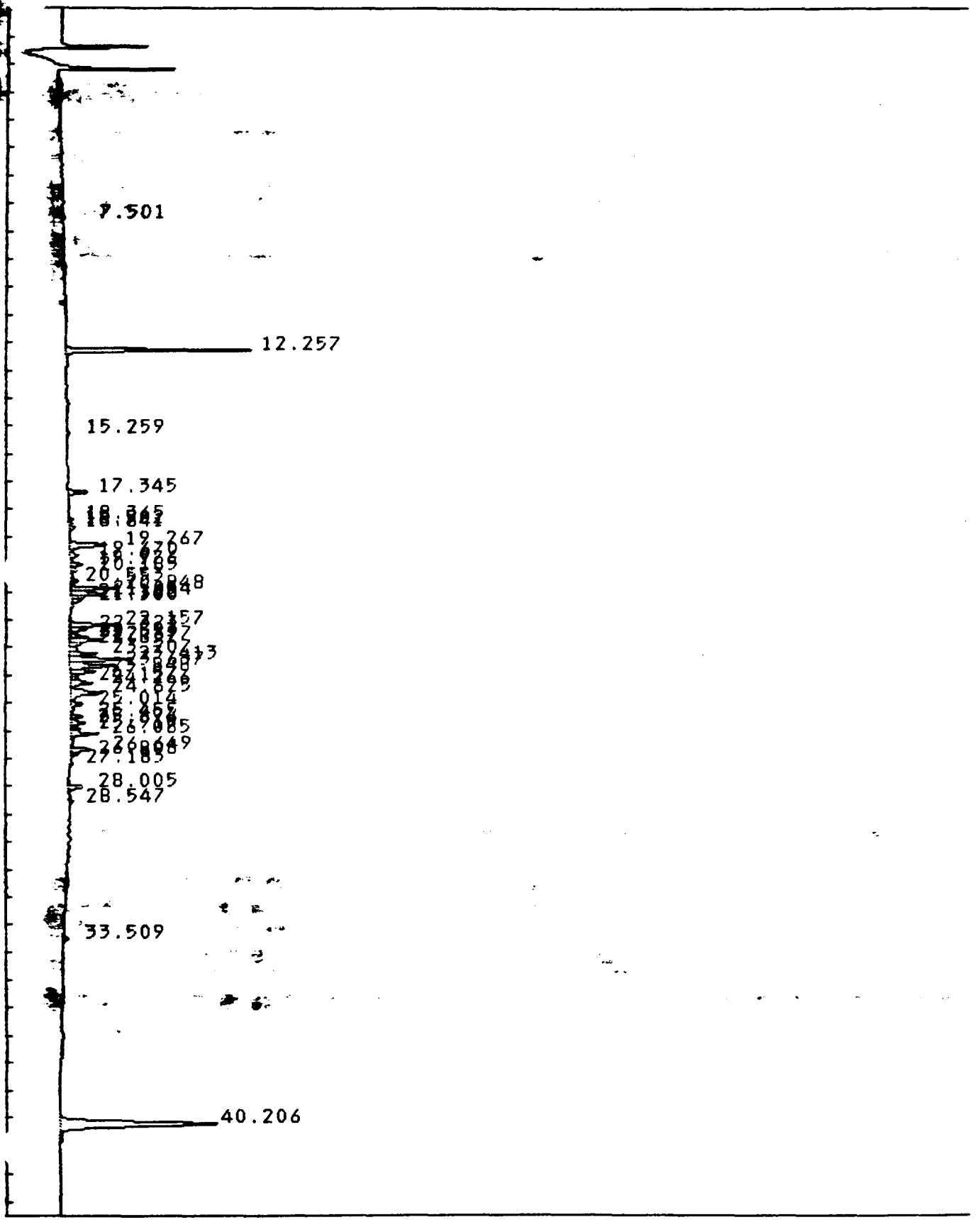
Report Time : 1429 03Mar1995
Method : /METHOD/P1M030195CLP.MTH
Result File : /RESULT/P1030195_007.RES

DD
3/7/95

IEA Pesticide Standard Report

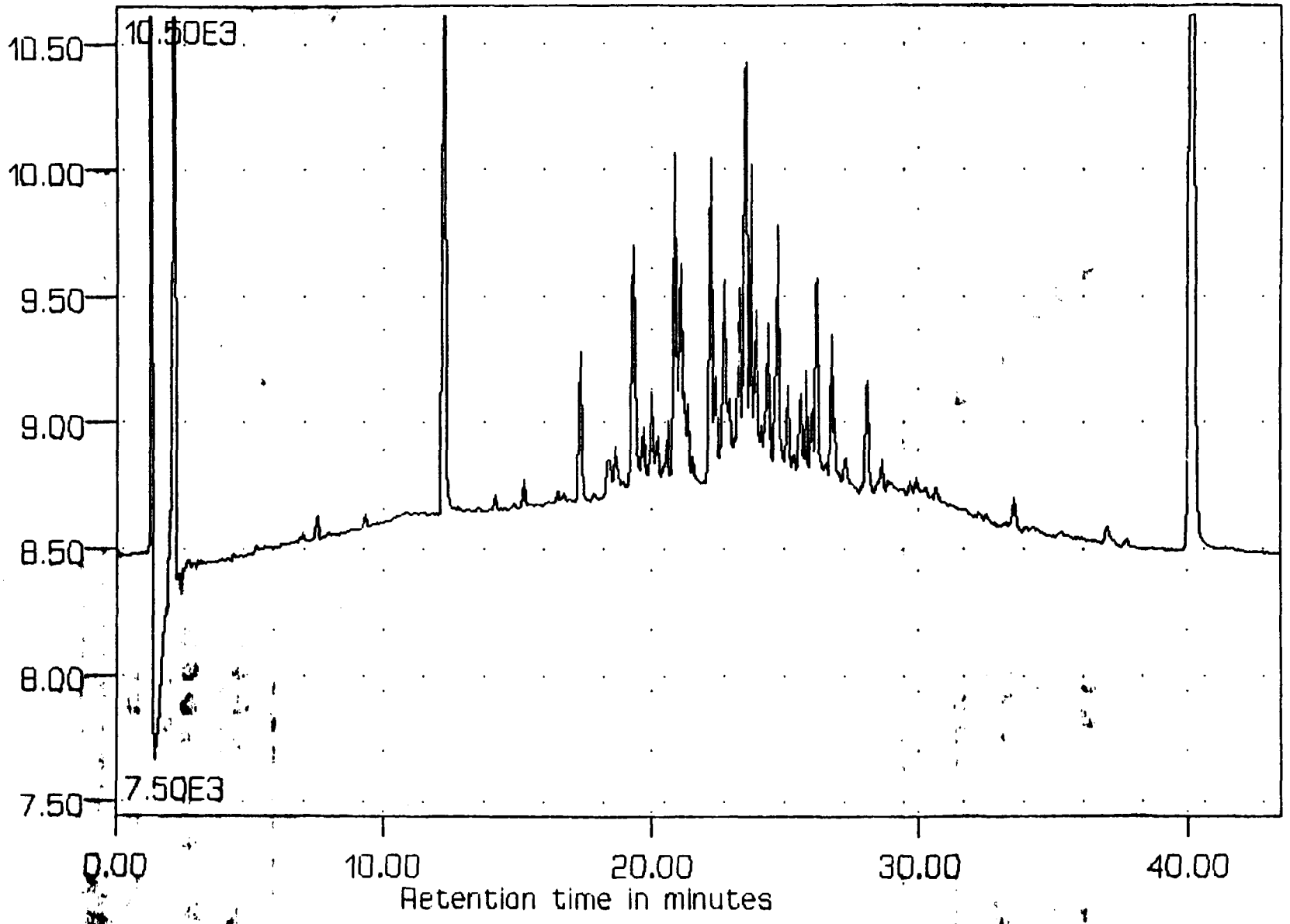
2 2 0704

Sample Name : AR124848 Inj on 2218 01Mar1995
Result File : /RESULT/P1030195_008.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



3 080

Sample : AR124848 Inj. On : 2218 01Mar1995



Result : P1030195_008 Method : P1M030195CLP

IEA Pesticide Standard Report

2 2 0706

Sample Name : AR124848 Report No : 57.01
Result File : /RESULT/P1030195_008.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 2218 01Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 2/ 5 Bottle no. : 5

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	7.50		.092	2037	BB	0.00000	
2	12.26	12.25	.089	108977	BB	.21605	Tetrachloro-m-xylene
3	15.26		.102	2610	BB	0.00000	
4	17.34		.112	15763	BB	0.00000	
5	18.37		.090	2994	BV	0.00000	
6	18.50		.093	1894	VV	0.00000	
7	18.64		.131	5134	VV	0.00000	
8	19.27		.158	35890	BV	0.00000	
9	19.67		.135	7129	VV	0.00000	
10	19.98		.114	9604	VV	0.00000	
11	20.18		.108	4569	VV	0.00000	
12	20.55		.098	5294	VV	0.00000	
13	20.85		.108	33236	PV	0.00000	
14	21.05		.121	24144	VV	0.00000	
15	21.17		.078	5975	VV	0.00000	
16	21.30		.092	5972	VV	0.00000	
17	22.16		.100	30797	BV	0.00000	
18	22.32		.111	11318	VV	0.00000	
19	22.59		.097	10023	VV	0.00000	
20	22.70		.109	20935	VV	0.00000	
21	22.83		.136	10753	VV	0.00000	
22	23.21		.109	19981	VV	0.00000	
23	23.41		.115	45868	VV	0.00000	
24	23.64		.113	34189	VV	0.00000	
25	23.85		.116	18955	VV	0.00000	
26	24.16		.084	5234	VV	0.00000	
27	24.27		.116	17542	VV	0.00000	
28	24.63		.163	39597	VV	0.00000	
29	25.01		.116	10544	VV	0.00000	
30	25.46		.124	10399	VV	0.00000	
31	25.69		.104	10982	VV	0.00000	
32	25.92		.096	6637	VV	0.00000	
33	26.08		.117	22664	VV	0.00000	
34	26.65		.111	15475	VV	0.00000	
35	26.81		.108	6441	VB	0.00000	
36	27.18		.111	2464	BB	0.00000	
37	28.01		.120	12609	PV	0.00000	

DD
3/7/95

IEA Pesticide Standard Report

2 2 0707

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
38	28.55		.081	2398	VV	0.00000	
39	33.51		.175	5230	BV	0.00000	
40	40.21	#40.20	.214	202175	BB	.21614	Decachlorobiphenyl

Total Area : 844432 Total PPB : .432

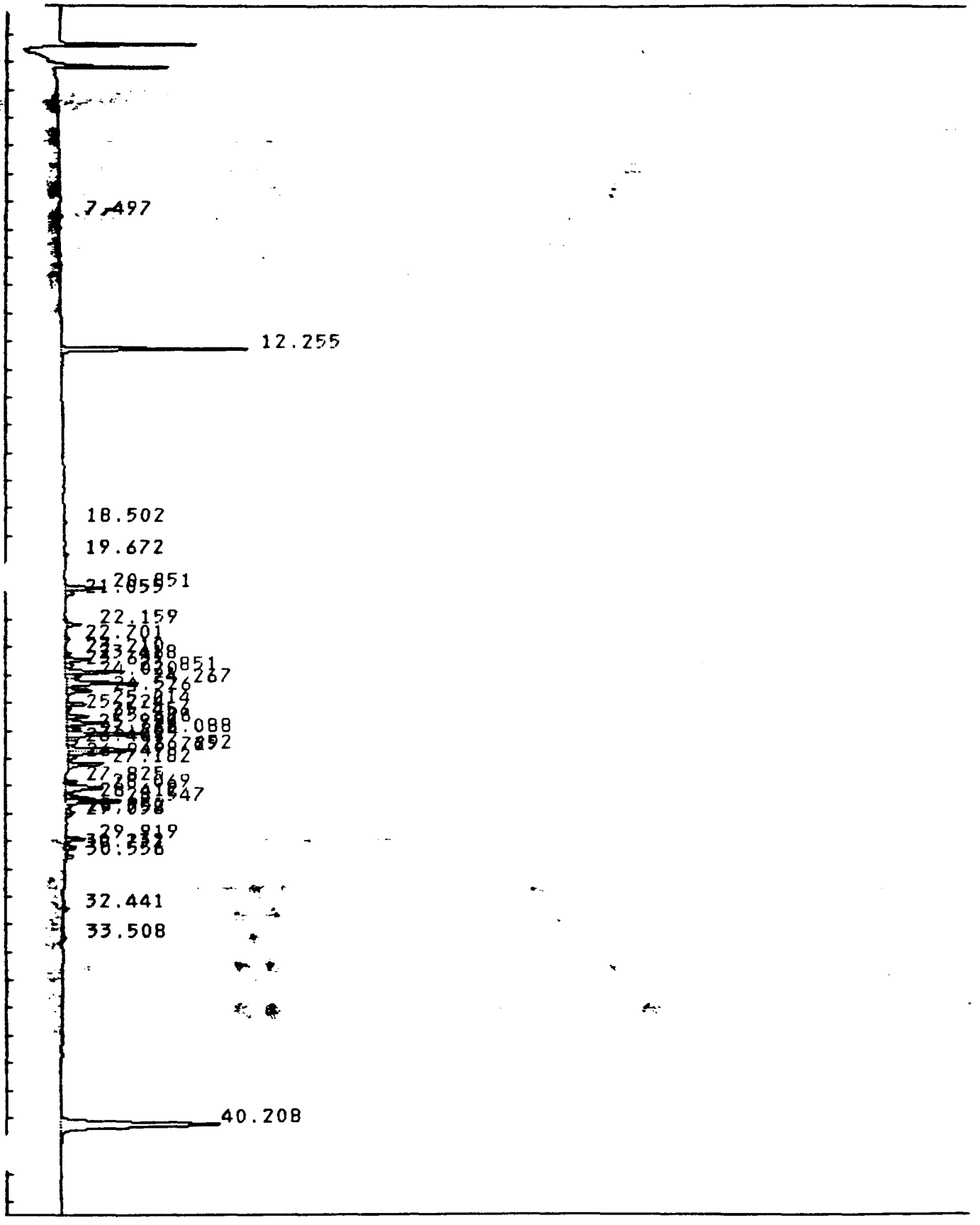
Report Time : 1435 03Mar1995
Method : /METHOD/P1M030195CLP.MTH
Result File : /RESULT/P1030195_008.RES

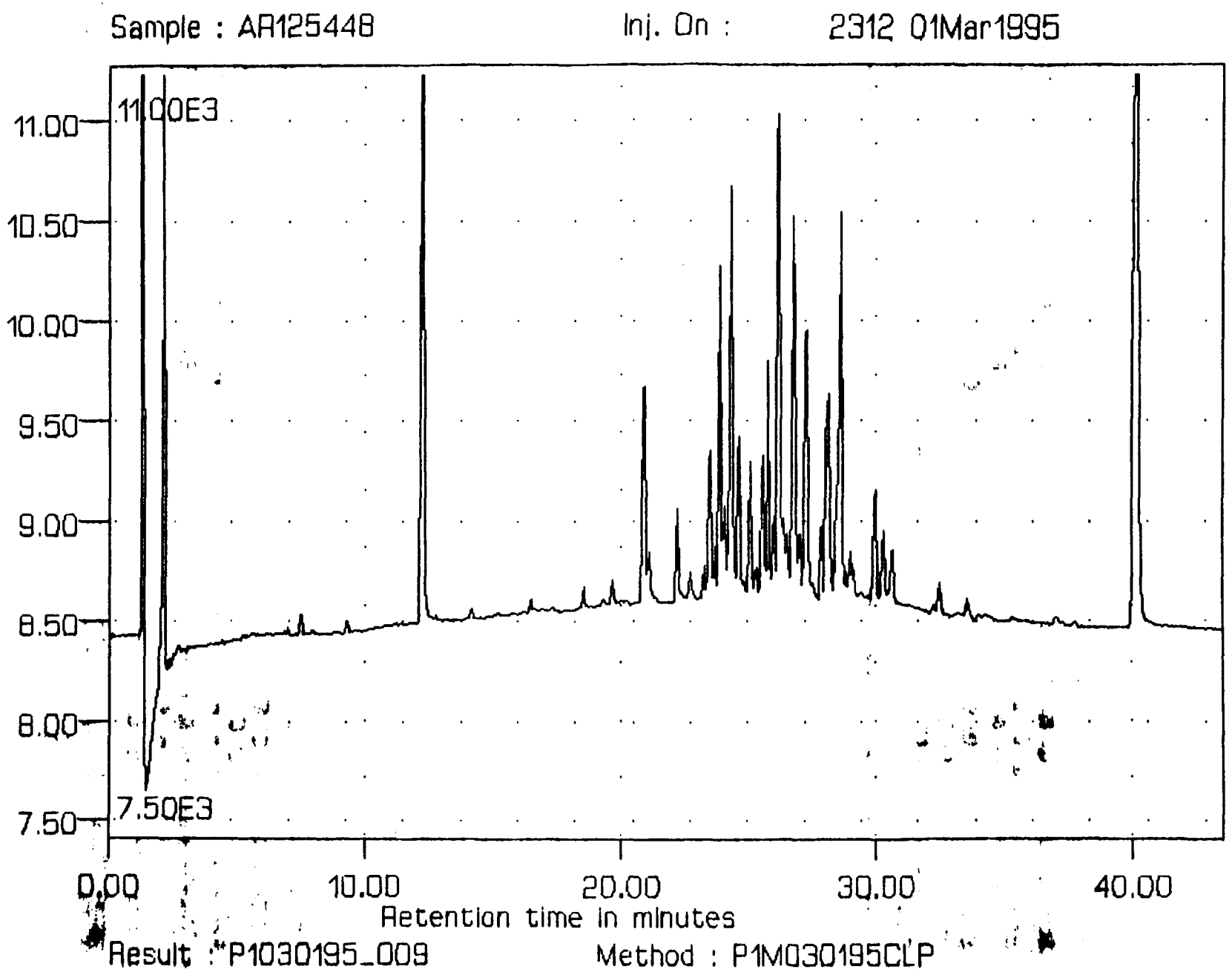
DD
3/7/95

IEA Pesticide Standard Report

2 2 0703

Sample Name : AR125448 Inj on 2312 01Mar1995
Result File : /RESULT/P1030195_009.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : AR125448
Inj. On : 2312 01Mar1995
11.00E3
7.50E3
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
Amplitude / 10E3
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P1030195_009
Method : P1M030195CLP

IEA Pesticide Standard Report 2 2 0710

Sample Name : AR125448 Report No : 58.01
Result File : /RESULT/P1030195_009.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 2312 01Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 2/ 6 Bottle no. : 6

% Dil-Fact
: 100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	7.50		.089	1999	BB	0.00000	
2	12.26	12.25	.089	110605	BB	.21928	Tetrachloro-m-xylene
3	18.50		.097	2320	BB	0.00000	
4	19.67		.107	2990	BB	0.00000	
5	20.85		.112	29103	BV	0.00000	
6	21.06		.130	7631	VB	0.00000	
7	22.16		.089	9306	BV	0.00000	
8	22.70		.121	3792	BB	0.00000	
9	23.21		.097	3713	BV	0.00000	
10	23.42		.104	18175	VV	0.00000	
11	23.64		.112	6745	VV	0.00000	
2	23.85		.092	36489	VV	0.00000	
13	24.02		.093	10071	VV	0.00000	
14	24.27		.108	53090	VV	0.00000	
15	24.53		.112	21326	VV	0.00000	
16	25.01		.091	14205	VV	0.00000	
17	25.22		.090	2657	VV	0.00000	
18	25.46		.101	16506	VV	0.00000	
19	25.70		.093	25760	VV	0.00000	
20	25.92		.087	7648	VV	0.00000	
21	26.09		.099	56702	VV	0.00000	
22	26.25		.097	8191	VV	0.00000	
23	26.41		.131	8398	VV	0.00000	
24	26.65		.088	38981	VV	0.00000	
25	26.73		.099	35575	VV	0.00000	
26	26.95		.091	5806	VV	0.00000	
27	27.18		.096	29311	PV	0.00000	
28	27.82		.080	6914	BV	0.00000	
29	28.07		.161	39479	VV	0.00000	
30	28.41		.103	14442	VV	0.00000	
31	28.55		.090	41427	VV	0.00000	
32	28.95		.096	5178	VV	0.00000	
33	29.06		.096	3006	VB	0.00000	
34	29.92		.101	13175	BV	0.00000	
35	30.23		.111	9385	VV	0.00000	
36	30.56		.115	7150	VB	0.00000	
37	32.44		.121	4551	VB	0.00000	

DD
3/7/95

IEA Pesticide Standard Report

2 2 0711

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
38	33.51		.240	6022	BV	0.00000	
39	40.21	#40.20	.214	205453	BB	.21965	Decachlorobiphenyl

Total Area : 923279 Total PPB : .439

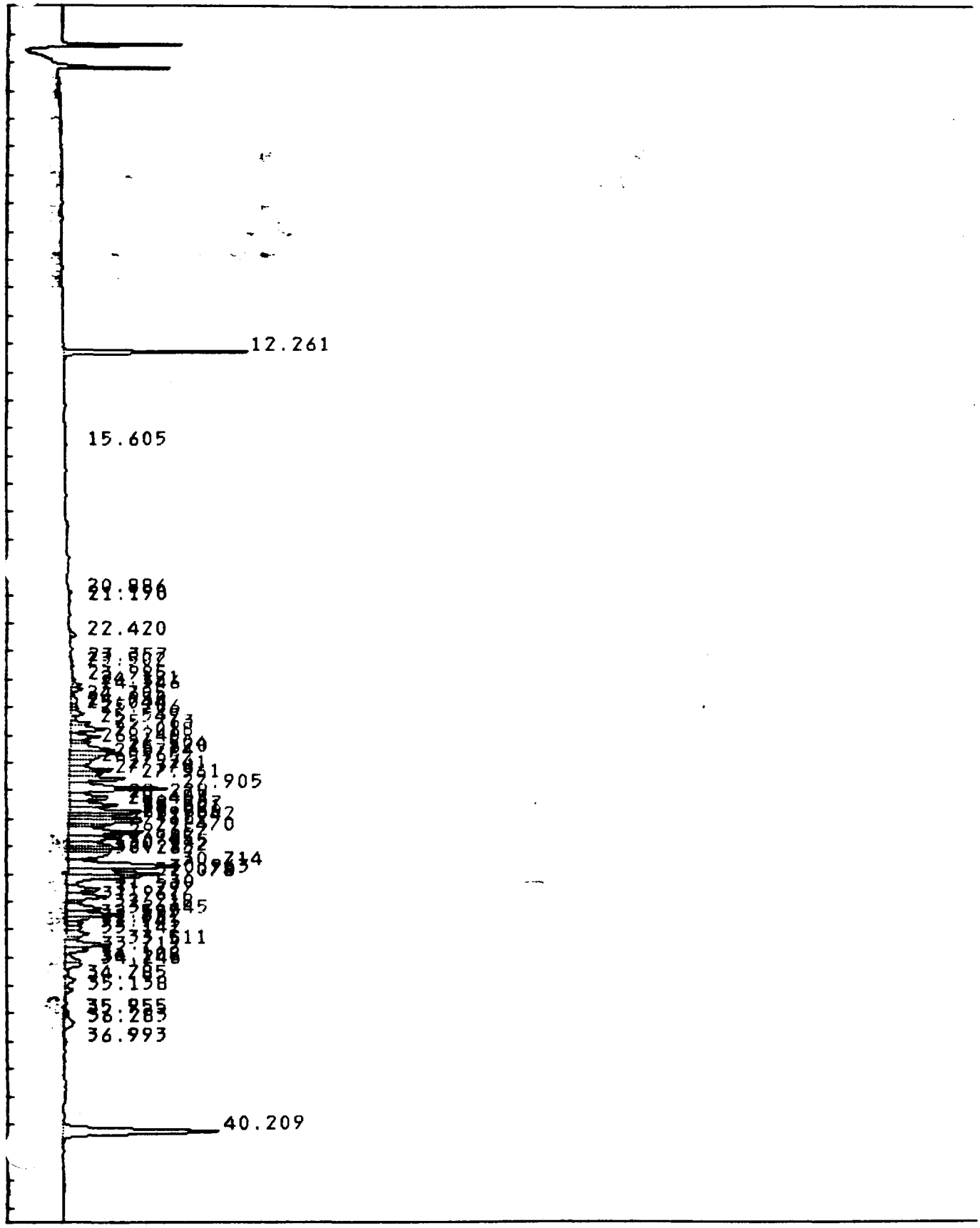
Report Time : 1444 03Mar1995
Method : METHOD/P1M030195CLP.MTH
Result File : RESULT/P1030195_009.RES

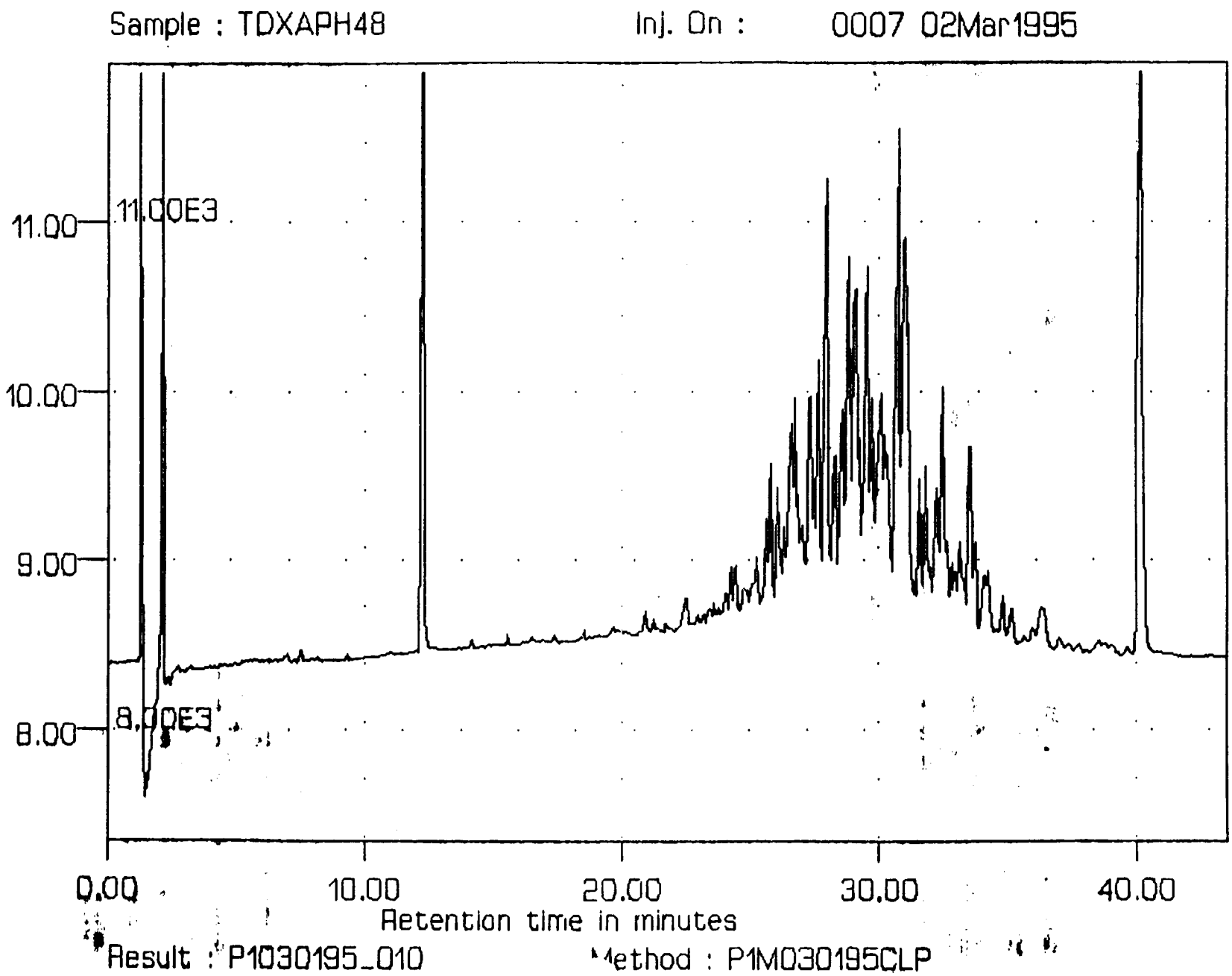
DD
3/7/95

IEA Pesticide Standard Report

2 2 0712

Sample Name : TOXAPH48 Inj on 0007 02Mar1995
Result File : /RESULT/P1030195_010.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : TDXAPH48
Inj. On : 0007 02Mar1995
11.00E3
8.00E3
11.00
10.00
9.00
8.00
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P1030195_010
Method : P1M030195CLP

IEA Pesticide Standard Report

2 2 0714

Sample Name : TOXAPH48 Report No : 59.01
esult File : /RESULT/P1030195_010.RES
olumn Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0007 02Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 2/ 7 Bottle no. : 7

% Dil-Fact
100.00

Run Status : RunStatusOK
EndOffBaseline

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.26	12.25	.090	107322	BB	.21277	Tetrachloro-m-xylene
2	15.61		.088	1351	BB	0.00000	
3	20.89		.133	3860	BB	0.00000	
4	21.19		.079	1187	BV	0.00000	
5	22.42		.159	6353	BB	0.00000	
6	23.36		.137	2018	PV	0.00000	
7	23.50		.085	1669	VB	0.00000	
8	23.99		.091	2586	BV	0.00000	
9	24.19		.114	7667	VV	0.00000	
10	24.35		.112	7859	VV	0.00000	
11	24.71		.261	9708	VV	0.00000	
12	24.93		.096	3571	VV	0.00000	
13	25.04		.109	5187	VV	0.00000	
14	25.21		.137	11673	VV	0.00000	
15	25.55		.106	14877	VV	0.00000	
16	25.76		.153	33529	VV	0.00000	
17	26.02		.153	28853	VV	0.00000	
18	26.24		.111	14449	VV	0.00000	
19	26.50		.161	45026	VV	0.00000	
20	26.62		.129	40545	VV	0.00000	
21	26.77		.150	26836	VV	0.00000	
22	26.97		.159	21632	VV	0.00000	
23	27.24		.123	39383	VV	0.00000	
24	27.38		.129	26041	VV	0.00000	
25	27.56		.127	47299	VV	0.00000	
26	27.90		.181	114017	VV	0.00000	
27	28.23		.165	39652	VV	0.00000	
28	28.48		.163	49816	VV	0.00000	
29	28.71		.115	60203	VV	0.00000	
30	28.80		.092	36519	VV	0.00000	
31	28.96		.094	41673	VV	0.00000	
32	29.04		.115	55217	VV	0.00000	
33	29.19		.109	29056	VV	0.00000	
34	29.47		.169	86846	VV	0.00000	
35	29.66		.162	52794	VV	0.00000	
36	29.95		.131	32922	VV	0.00000	

DD
3/7/95

IEA Pesticide Standard Report

2 2 0715

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
37	30.04		.125	41759	VV	0.00000	
8	30.17		.096	26753	VV	0.00000	
39	30.26		.181	45099	VV	0.00000	
40	30.71		.189	134481	VV	0.00000	
41	30.96		.162	90259	VV	0.00000	
42	31.08		.144	63001	VV	0.00000	
43	31.53		.149	32575	VV	0.00000	
44	31.80		.180	43106	VV	0.00000	
45	31.96		.110	10390	VV	0.00000	
46	32.22		.183	37965	VV	0.00000	
47	32.45		.148	52512	VV	0.00000	
48	32.60		.112	15012	VV	0.00000	
49	32.78		.140	14606	VV	0.00000	
50	32.94		.137	12711	VV	0.00000	
51	33.14		.166	22703	VV	0.00000	
52	33.51		.155	42321	VV	0.00000	
53	33.72		.156	21467	VV	0.00000	
54	34.11		.171	15674	VV	0.00000	
55	34.25		.168	16967	VV	0.00000	
56	34.78		.190	12788	VV	0.00000	
57	35.14		.170	8592	VV	0.00000	
58	35.95		.250	6080	VV	0.00000	
59	36.28		.324	18290	VB	0.00000	
60	36.99		.189	2778	BV	0.00000	
61	40.21	#40.20	.215	197491	PV	.21114	Decachlorobiphenyl

tal Area : 2094573 Total PPB : .424

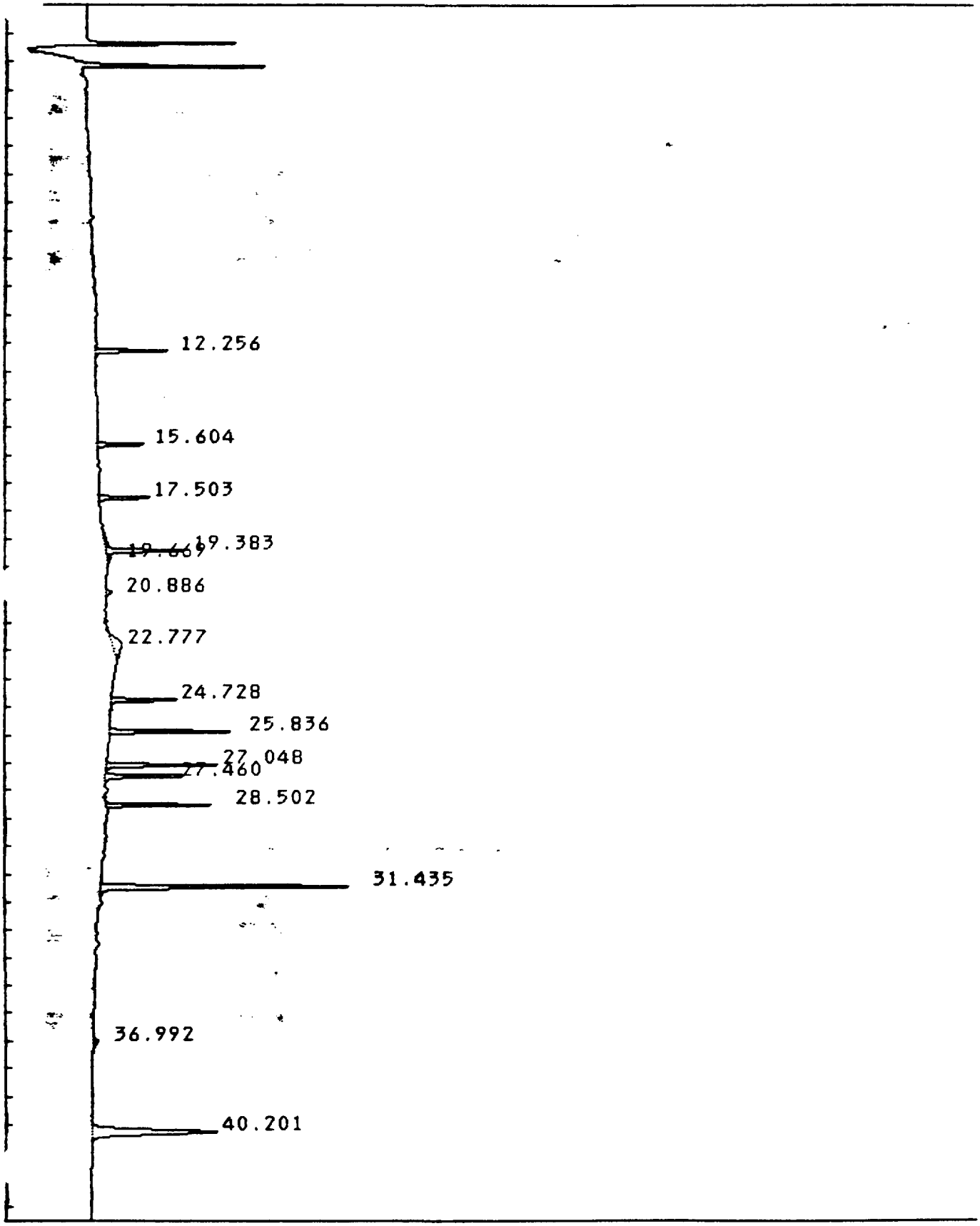
Report Time : 1449 03Mar1995
Method : /METHOD/P1M030195CLP.MTH
Result File : /RESULT/P1030195_010.RES

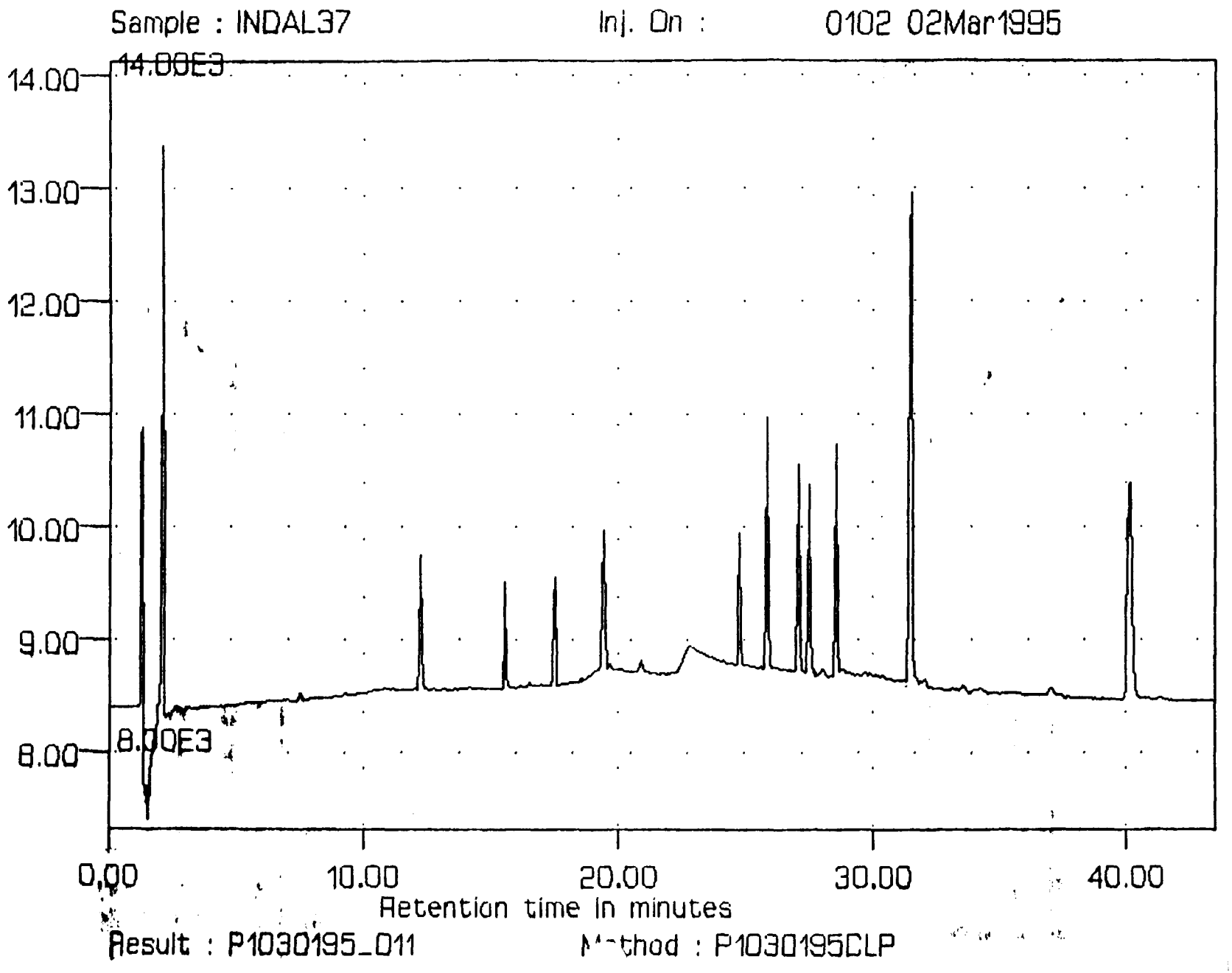
DD
3/7/95

IEA Pesticide Standard Report

2 2 0716

Sample Name : INDAL37 Inj on 0102 02Mar1995
Result File : /RESULT/P1030195_011.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : INDAL37
Inj. On : 0102 02Mar1995
14.00E3
8.00E3
14.00
13.00
12.00
11.00
10.00
9.00
8.00
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P1030195_011
Method : P1030195CLP

IEA Pesticide Standard Report

Sample Name : INDAL37 Report No : 60.010
Result File : /RESULT/P1030195_011.RES
lumn Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
nstrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0102 02Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 1 Bottle no. : 1

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.26	12.25	.090	25923	PB	.05139	Tetrachloro-m-xylene
2	15.60	15.60	.091	20109	BB	.04924	alpha-BHC
3	17.50	17.50	.091	20903	BB	.04884	gamma-BHC (Lindane)
4	19.38	19.38	.122	36931	BV	.06287	Heptachlor
5	19.67		.134	1934	VB	0.00000	
6	20.89	20.93	.122	3015	BB	~~.00592~~	~~Aldrin~~
7	22.78		.529	19127	BB	0.00000	
8	24.73	24.73	.089	24823	BB	.05138	Endosulfan I
9	25.84	25.83	.087	46320	BB	.10098	Dieldrin
10	27.05	27.05	.088	38777	BV	.10255	Endrin
11	27.46	27.46	.090	35955	VV	.09153	4,4'-DDD
12	28.50	28.50	.078	37992	PV	.09383	4,4'-DDT
13	31.43	31.43	.105	109208	BV	.51897	Methoxychlor
14	36.99		.283	5298	BB	0.00000	
15	40.20	#40.20	.214	98317	BB	.10511	Decachlorobiphenyl

Total Area : 524633 Total PPB : 1.283

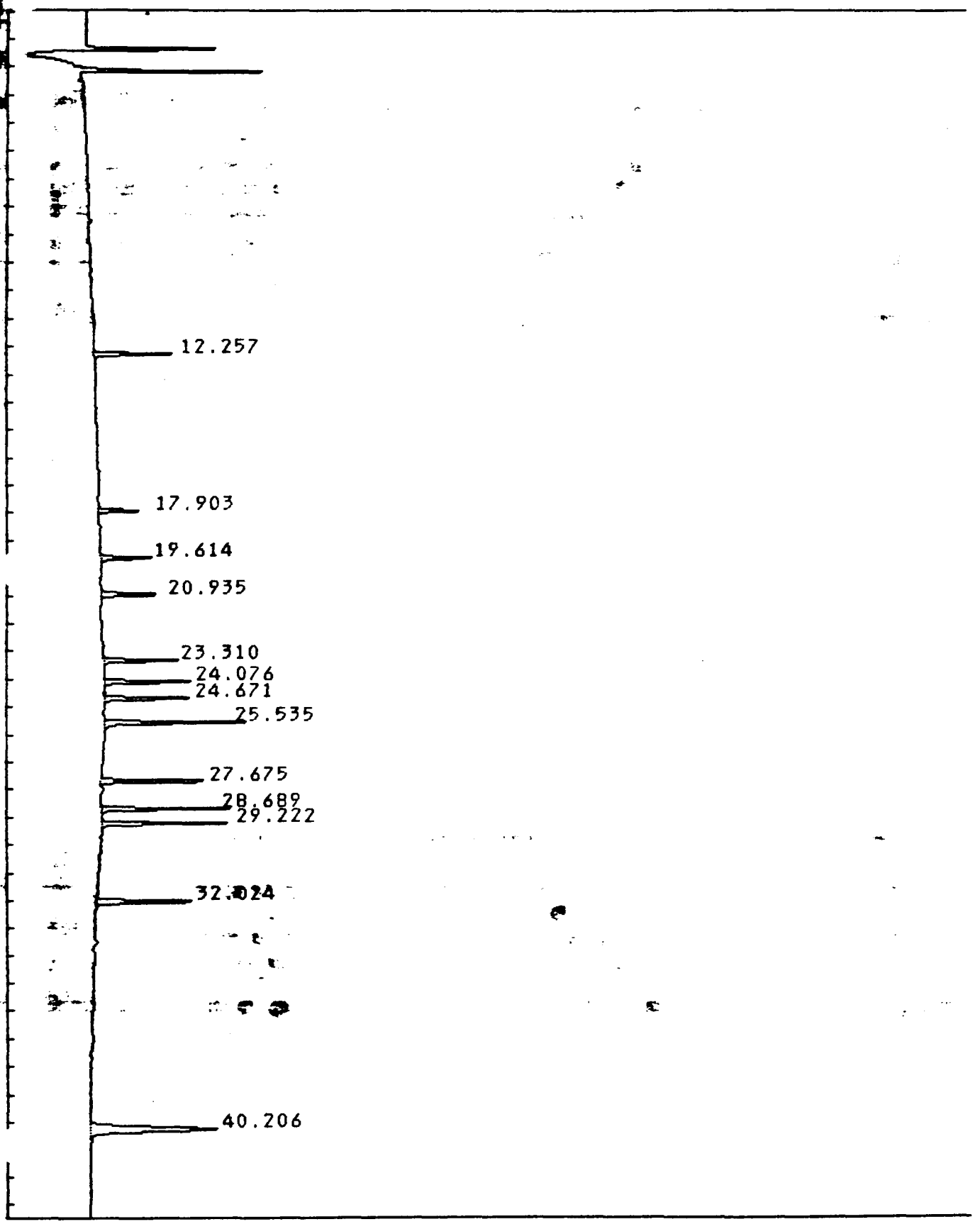
Report Time : 1451 03Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_011.RES

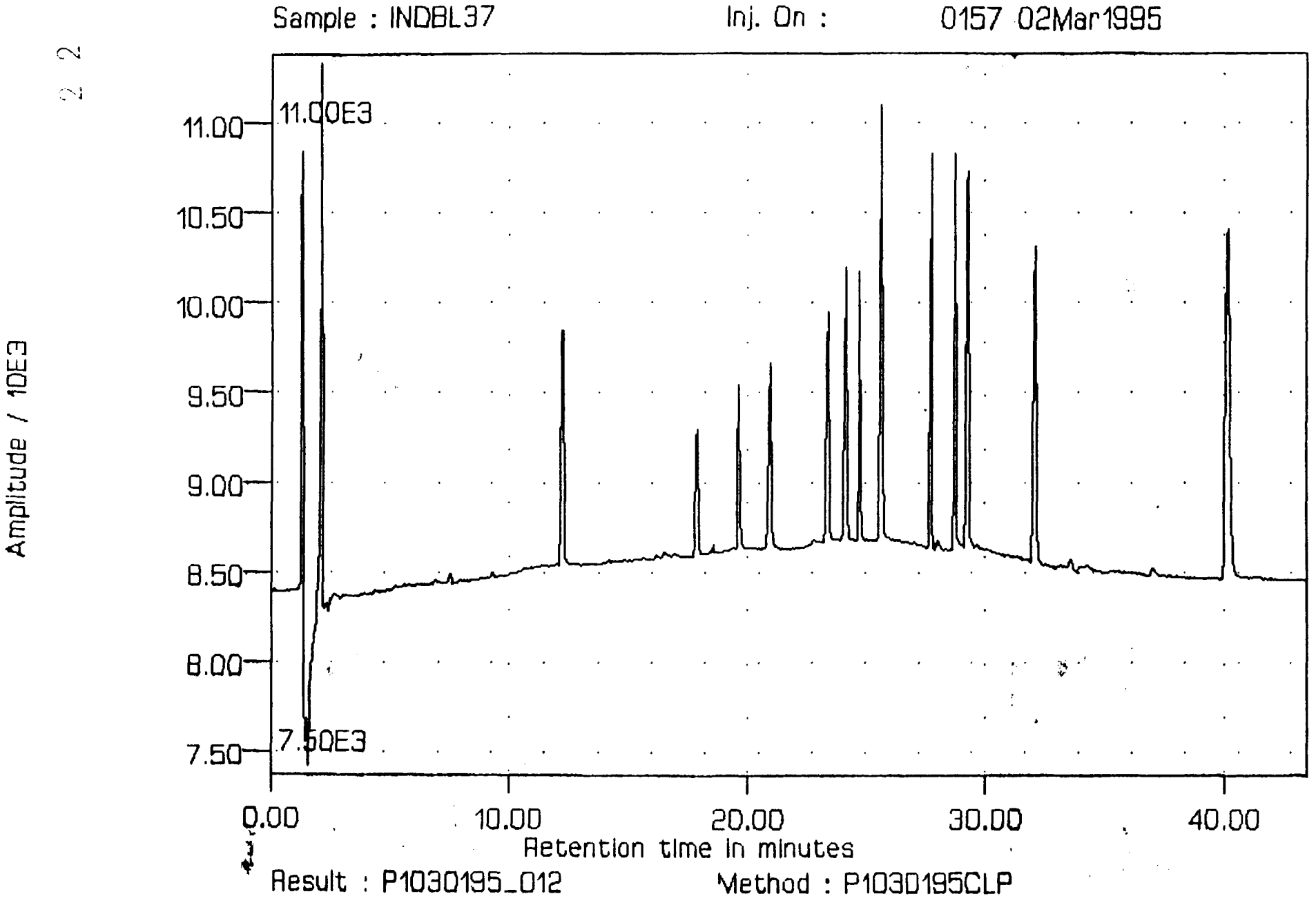
DD
3/7/95

IEA Pesticide Standard Report

2 2 0719

Sample Name : INDBL37 Inj on 0157 02Mar1995
Result File : /RESULT/P1030195_012.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : INDBL37
Inj. On : 0157 02Mar1995
11.00E3
7.50E3
11.00
10.50
10.00
9.50
9.00
8.50
8.00
7.50
Amplitude / 10E3
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P1030195_012
Method : P1030195CLP

IEA Pesticide Standard Report

Sample Name : INDBL37 Report No : 61.010
sult File : /RESULT/P1030195_012.RES
olumn Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0157 02Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 2 Bottle no. : 2

% Dil-Fact
: 100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.26	12.25	.089	28071	BB	.05565	Tetrachloro-m-xylene
2	17.90	17.90	.091	15467	BB	.04905	beta-BHC
3	19.61	19.61	.097	21153	BB	.04947	delta-BHC
4	20.94	20.93	.112	27778	BB	.05451	Aldrin
5	23.31	23.31	.092	28121	BB	.05196	Heptachlor epoxide
6	24.08	24.07	.092	33595	BB	.05184	gamma-Chlordane
7	24.67	24.67	.090	32409	BB	.05187	alpha-Chlordane
8	25.53	25.53	.089	51788	BB	.09995	4,4'-DDE
9	27.68	27.67	.083	43552	BV	.09950	Endosulfan II
10	28.69	28.68	.085	44846	BB	.10372	Endrin aldehyde
11	29.22	29.22	.086	43303	BV	.10003	Endosulfan sulfate
12	32.02	32.02	.111	46840	BB	.09788	Endrin ketone
13	40.21	#40.20	.213	99185	BB	.10604	Decachlorobiphenyl

Total Area : 516109 Total PPB : .971

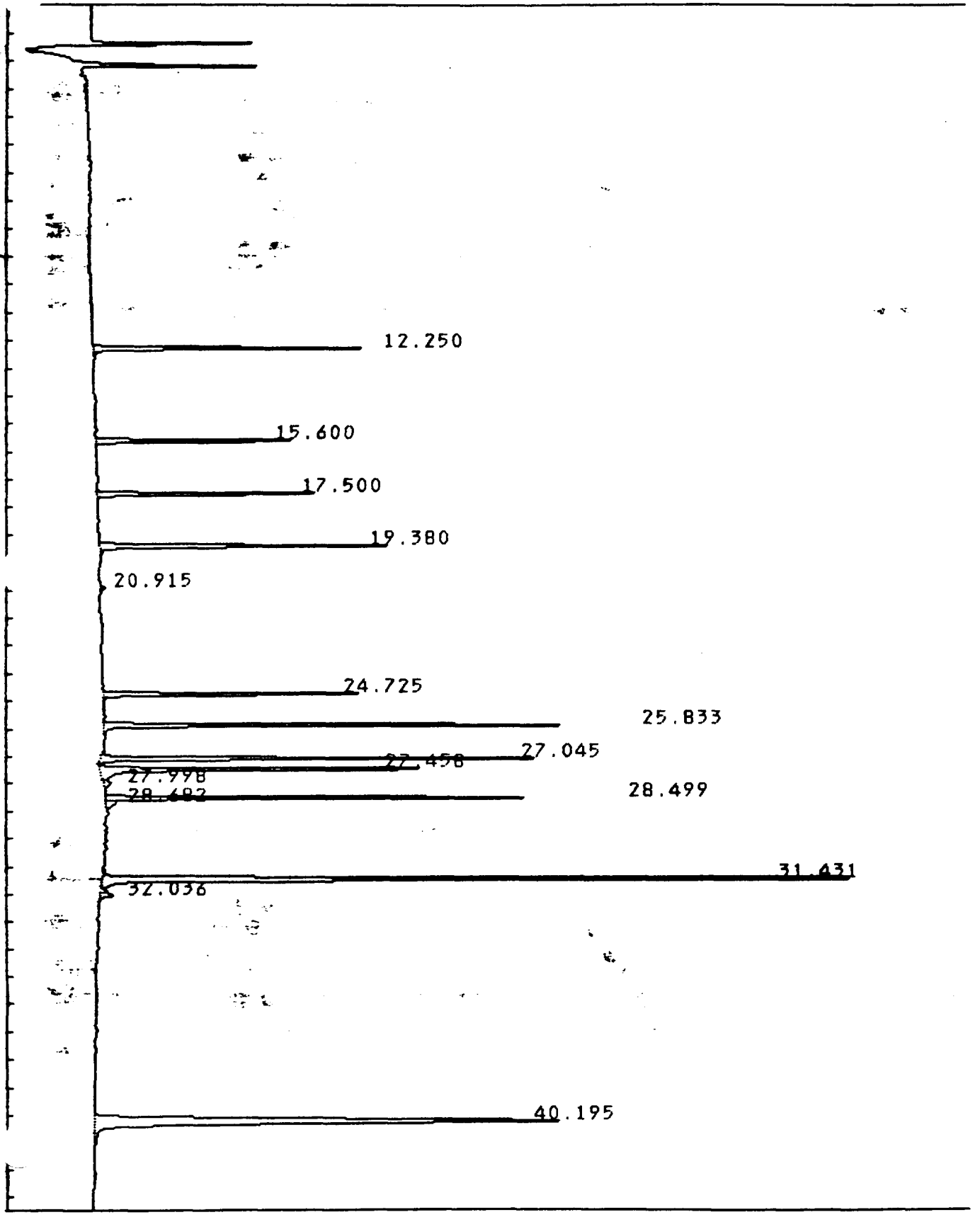
Report Time : 1454 03Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_012.RES

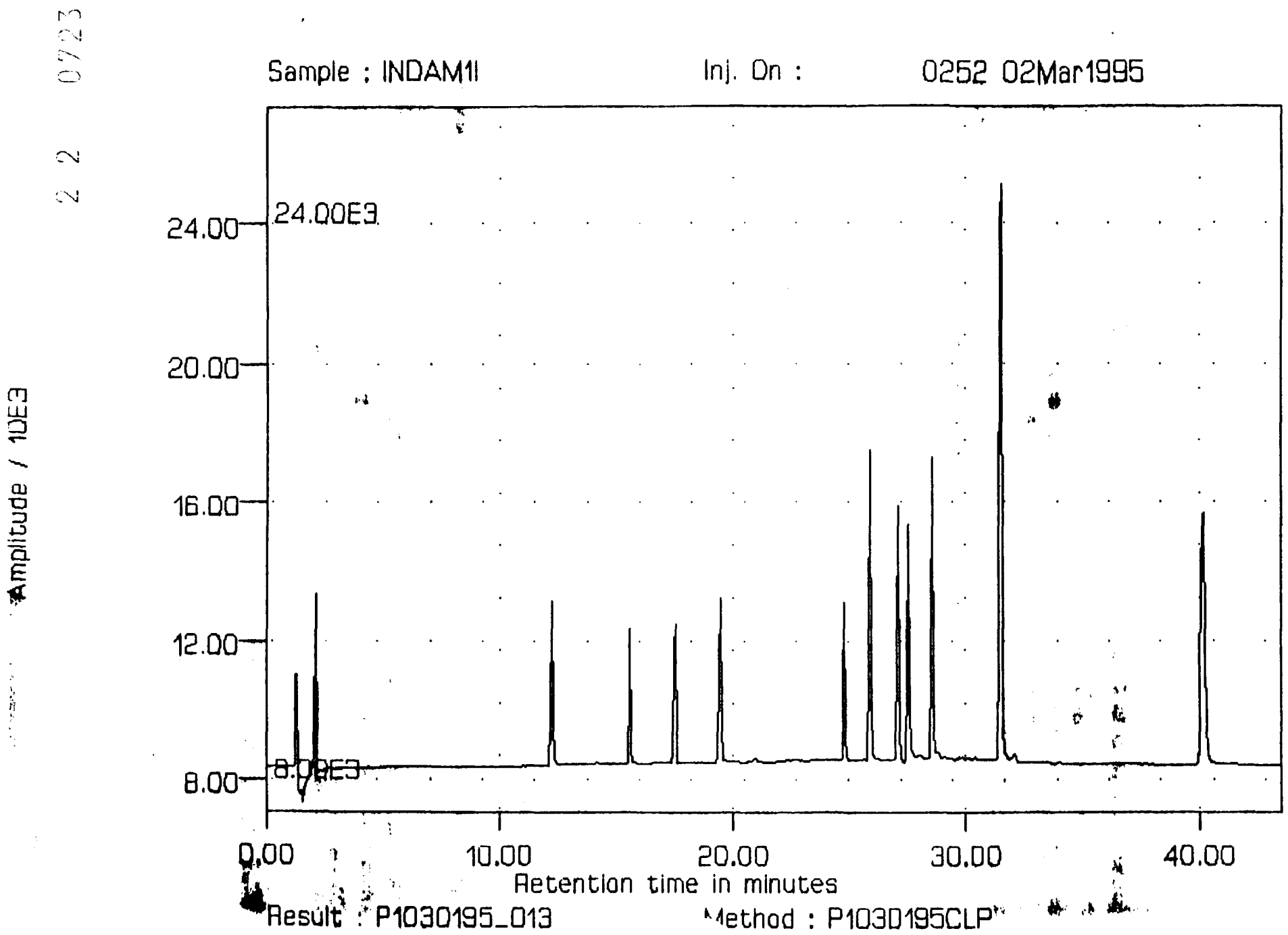
DD
3/7/95

IEA Pesticide Standard Report

2 2 0722

Sample Name : INDAM1I Inj on 0252 02Mar1995
Result file : /RESULT/P1030195_013.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : INDAM1I
Inj. On : 0252 02Mar1995
24.00E3
8.00E3
24.00
20.00
16.00
12.00
8.00
Amplitude / 10E3
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P1030195_013
Method : P1030195CLP

IEA Pesticide Standard Report

2 2 0724

Sample Name : INDAM1I Report No : 62.010
Result File : /RESULT/P1030195_013.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0252 02Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 3 Bottle no. : 3

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.25	12.25	.089	100881	BB	.20000	Tetrachloro-m-xylene
2	15.60	15.60	.088	81685	BB	.20000	alpha-BHC
3	17.50	17.50	.090	85601	BB	.20000	gamma-BHC (Lindane)
4	19.38	19.38	.105	117492	BB	.20000	Heptachlor
5	20.92	20.93	.136	2469	BB	~~.00484~~	~~Aldrin~~
6	24.73	24.73	.089	96635	BB	.20000	Endosulfan I
7	25.83	25.83	.086	183480	BB	.40000	Dieldrin
8	27.05	27.05	.086	151258	BV	.40000	Endrin
9	27.46	27.46	.096	157120	PV	.40000	4,4'-DDD
10	28.00		.212	5747	VB	0.00000	
11	28.50	28.50	.078	161955	BV	.40000	4,4'-DDT
2	28.68	28.68	.195	7678	VV	~~.01776~~	~~Endrin aldehyde~~
13	31.43	31.43	.106	420864	BV	2.00000	Methoxychlor
14	32.04	32.02	.132	7263	VB	~~.01518~~	~~Endrin ketone~~
15	40.20	#40.20	.216	374150	BB	.40000	Decachlorobiphenyl

Total Area : 1954280 Total PPB : 5.038

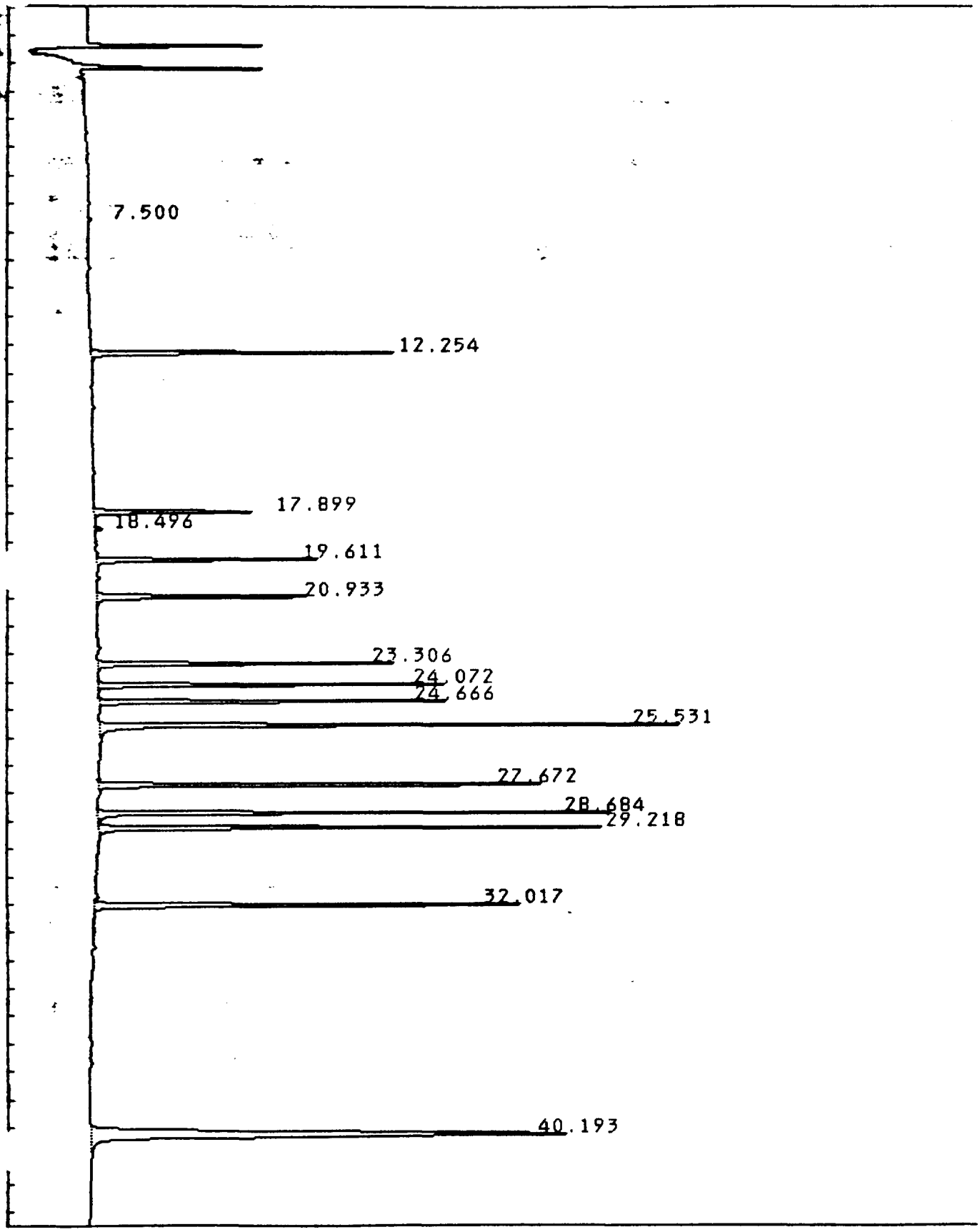
Report Time : 1456 03Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_013.RES

DD
3/7/95

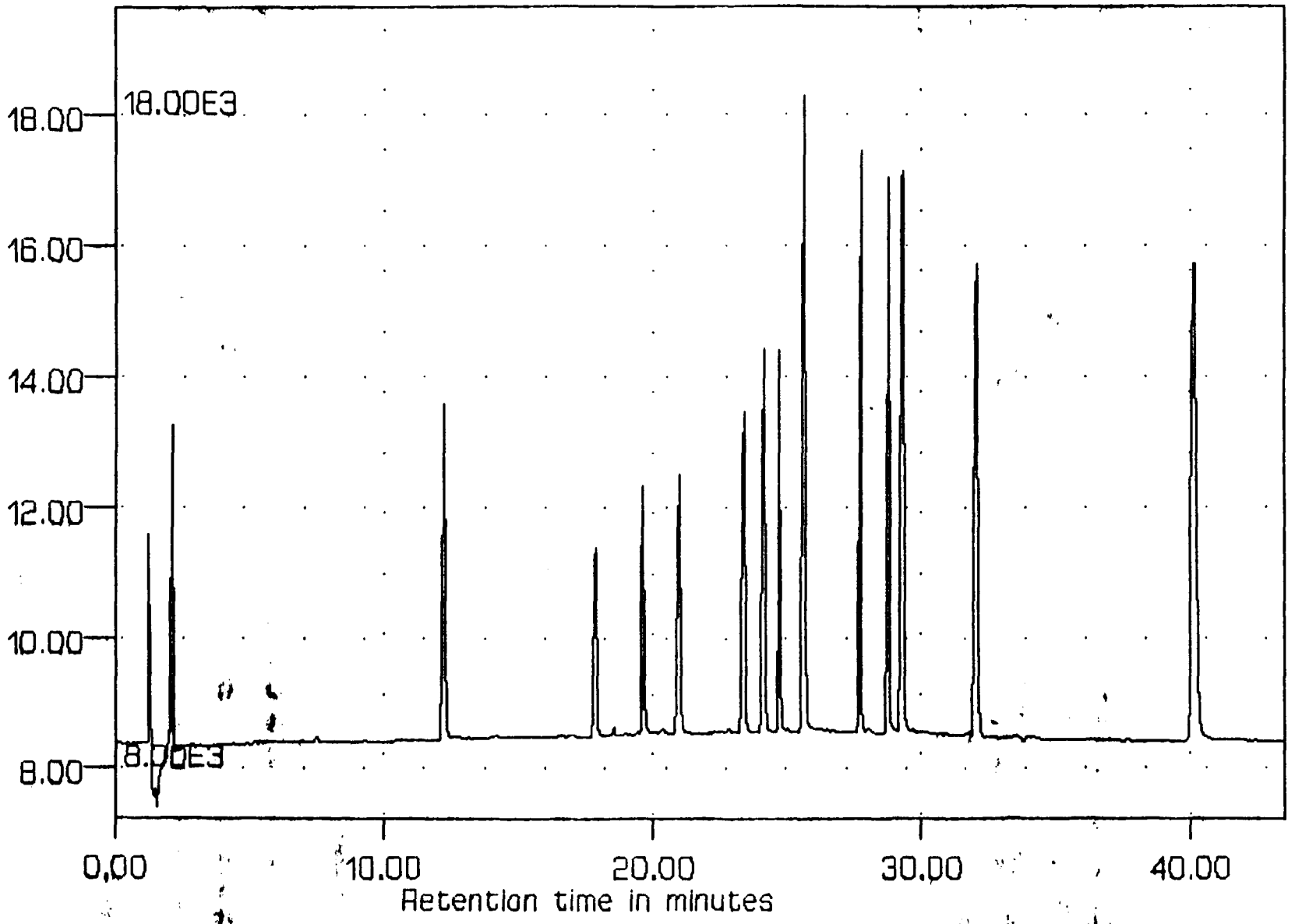
IEA Pesticide Standard Report

2 2 0725

Sample Name : INDBM1I Inj on 0347 02Mar1995
Result File : /RESULT/P1030195_014.RES INSTRUMENT : HP5890P1
olumn Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



Sample : INDBM11 Inj. On : 0347 02Mar1995



Result : P1030195_014 Method : P1030195CLP

IEA Pesticide Standard Report

2 2 0727

Sample Name : INDBM1I
Report No : 63.010
Result File : /RESULT/P1030195_014.RES
Column Type : RTX-35 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0347 02Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 4
Bottle no. : 4

% Dil-Fact
: 100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	7.50		.088	1658	BB	0.00000	
2	12.25	12.25	.089	109830	BB	.21774	Tetrachloro-m-xylene
3	17.90	17.90	.091	63071	BV	.20000	beta-BHC
4	18.50		.101	2973	BB	0.00000	
5	19.61	19.61	.094	85516	PB	.20000	delta-BHC
6	20.93	20.93	.107	101914	BB	.20000	Aldrin
7	23.31	23.31	.092	108234	BB	.20000	Heptachlor epoxide
8	24.07	24.07	.092	129619	BB	.20000	gamma-Chlordane
9	24.67	24.67	.090	124971	BV	.20000	alpha-Chlordane
10	25.53	25.53	.089	207260	BB	.40000	4,4'-DDE
11	27.67	27.67	.082	175078	BV	.40000	Endosulfan II
12	28.68	28.68	.085	172953	BV	.40000	Endrin aldehyde
13	29.22	29.22	.084	173162	VV	.40000	Endosulfan sulfate
14	32.02	32.02	.110	191408	PB	.40000	Endrin ketone
15	40.19	#40.20	.218	380936	BB	.40725	Decachlorobiphenyl

Total Area : 2028584 Total PPB : 3.825

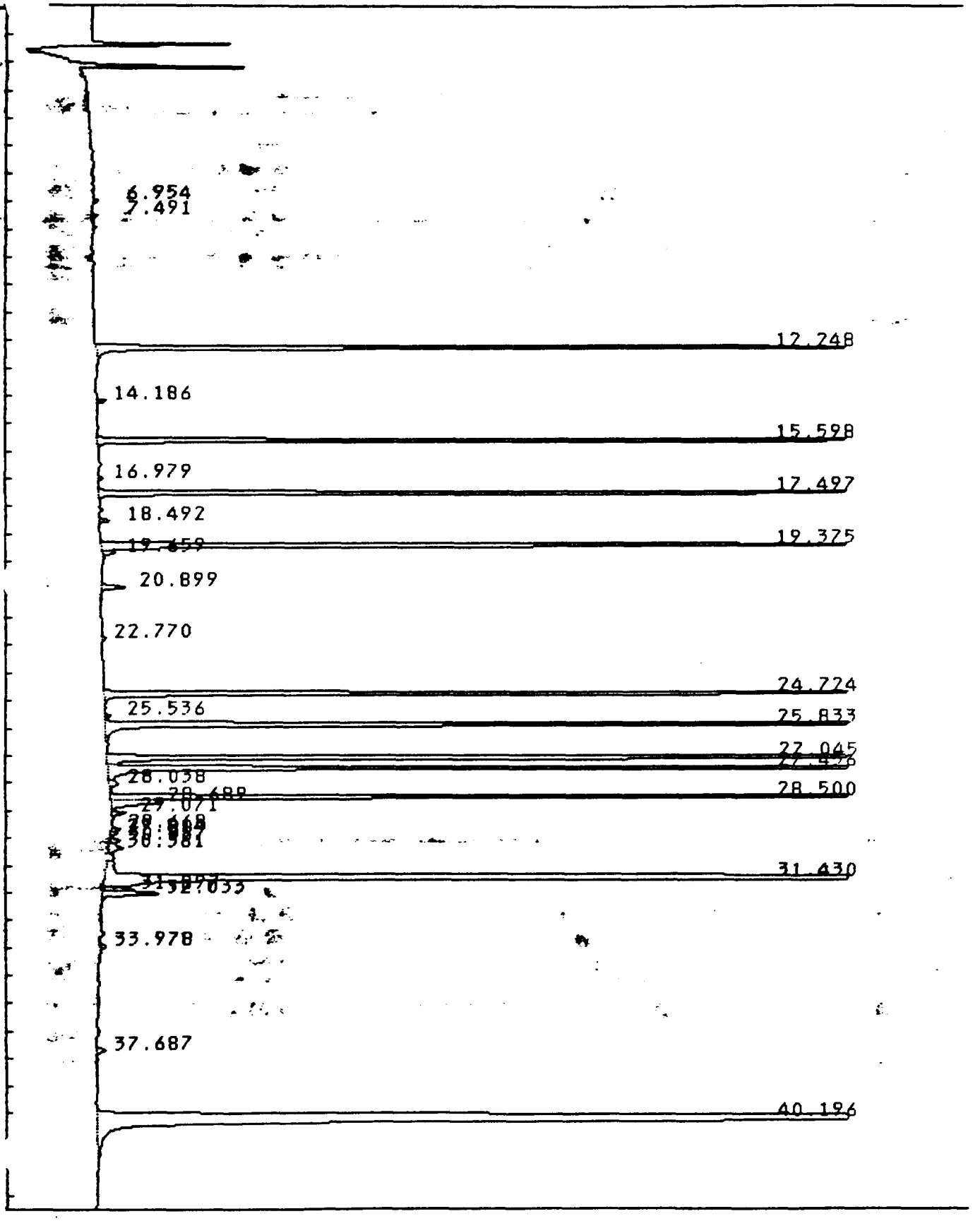
Report Time : 1458 03Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_014.RES

DD
3/7/95

IEA Pesticide Standard Report

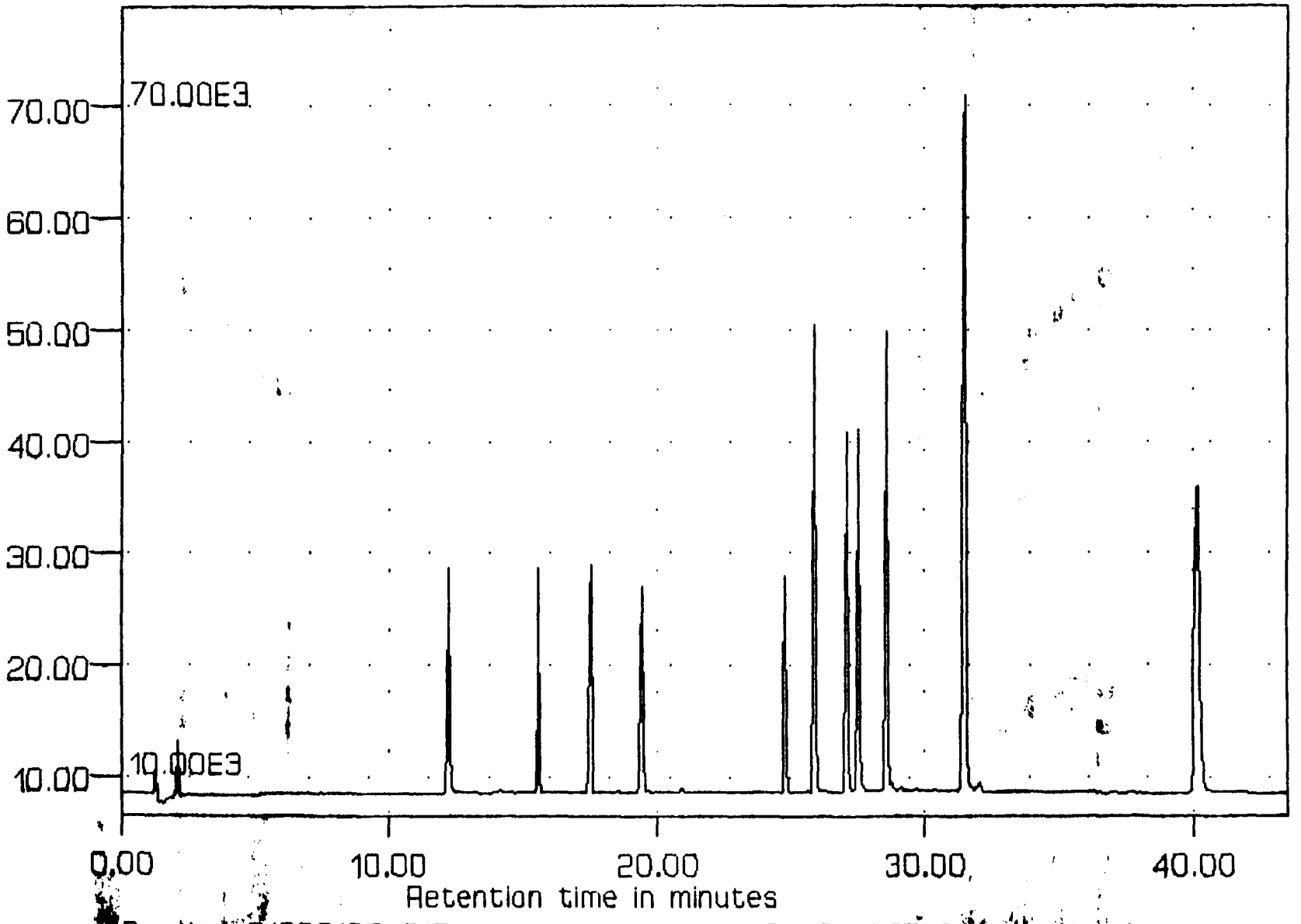
2 2 0723

Sample Name : INDAH37 Inj on 0442 02Mar1995
Result File : /RESULT/P1030195_015.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



2 2 0722

Sample : INDAH37 Inj. On : 0442 02Mar1995



Result : P1030195_015 Method : P1030195CLP

IEA Pesticide Standard Report

2 2 0770

Sample Name : INDAH37 Report No : 64.010
Result File : /RESULT/P1030195_015.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0442 02Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 5 Bottle no. : 5

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.95		.075	2139	VB	0.00000	
2	7.49		.090	2086	BB	0.00000	
3	12.25	12.25	.087	421443	BV	.83552	Tetrachloro-m-xylene
4	14.19		.087	3925	BB	0.00000	
5	15.60	15.60	.082	397967	BB	.97439	alpha-BHC
6	16.98		.125	2053	BB	0.00000	
7	17.50	17.50	.084	411544	BV	.96153	gamma-BHC (Lindane)
8	18.49		.102	4291	BB	0.00000	
9	19.38	19.38	.103	458970	BV	.78128	Heptachlor
10	19.66	19.61	.143	7232	VB	~~.01691~~	~~delta BHC~~
11	20.90	20.93	.145	13710	BB	~~.02690~~	~~Aldrin~~
12	22.77		.104	1703	BB	0.00000	
13	24.72	24.73	.087	402046	BV	.83209	Endosulfan I
14	25.54	25.53	.111	2982	BV	~~.00575~~	~~4,4'-DDE~~
15	25.83	25.83	.083	836415	VV	1.82344	Dieldrin
16	27.05	27.05	.083	638625	PV	1.68884	Endrin
17	27.46	27.46	.081	634004	VV	1.61406	4,4'-DDD
18	28.04		.178	6605	VV	0.00000	
19	28.50	28.50	.077	759116	VV	1.87487	4,4'-DDT
20	28.69	28.68	.170	32556	VV	~~.07550~~	~~Endrin aldehyde~~
21	29.07		.118	6687	VV	0.00000	
22	29.67		.100	3976	BV	0.00000	
23	29.81		.151	3868	VV	0.00000	
24	30.09		.162	6565	VV	0.00000	
25	30.36		.205	11817	VV	0.00000	
26	31.43	31.43	.109	1626007	VV	7.72700	Methoxychlor
27	31.90		.104	11847	VV	0.00000	
28	32.03	32.02	.139	32354	VB	~~.06761~~	~~Endrin ketone~~
29	33.98		.159	3450	PV	0.00000	
30	37.69		.154	5191	BV	0.00000	
31	40.20	#40.20	.218	1435102	BB	1.53425	Decachlorobiphenyl

Total Area : 8186278 Total PPB : 20.840

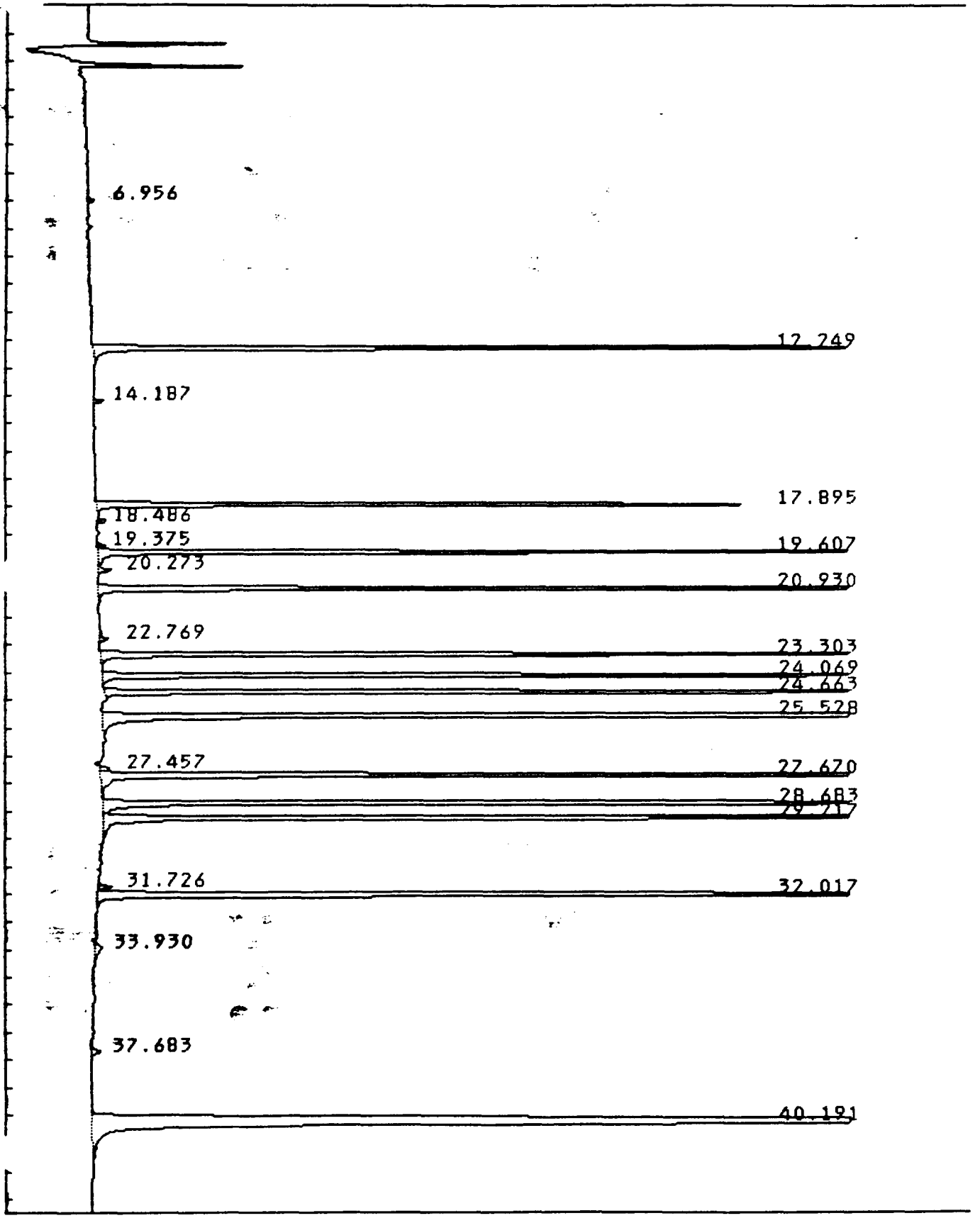
Report Time : 1501 03Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_015.RES

DD
3/7/95

IEA Pesticide Standard Report

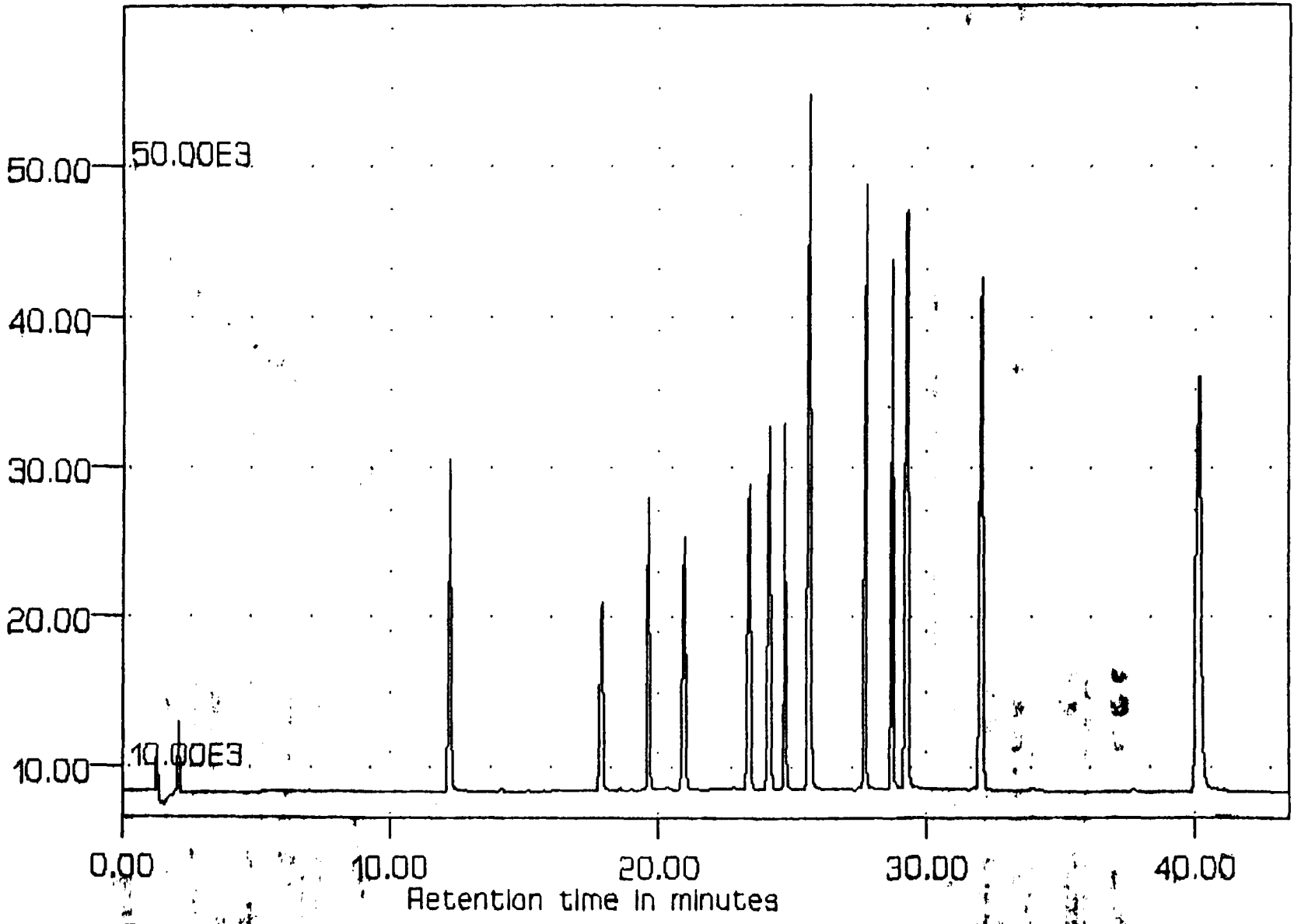
2 2 0751

Sample Name : INDBH37 Inj on 0537 02Mar1995
Result File : /RESULT/P1030195_016.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



2 2 0732

Sample : INDBH37 Inj. On : 0537 02Mar1995



Result : P1030195_016 Method : P1030195CLP

IEA Pesticide Standard Report

2 2 0733

Sample Name : INDBH37 Report No : 65.010
Result File : /RESULT/P1030195_016.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0537 02Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 6 Bottle no. : 6

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.96		.077	2411	BB	0.00000	
2	12.25	12.25	.087	460563	BB	.91308	Tetrachloro-m-xylene
3	14.19		.088	4340	BB	0.00000	
4	17.89	17.90	.089	267014	BB	.84671	beta-BHC
5	18.49		.094	3598	BB	0.00000	
6	19.38	19.38	.100	3049	BV	~~.00519~~	~~Heptachlor~~
7	19.61	19.61	.086	401107	VV	.93808	delta-BHC
8	20.27		.120	6923	VB	0.00000	
9	20.93	20.93	.098	394623	BB	.77442	Aldrin
10	22.77		.108	4129	BB	0.00000	
11	23.30	23.31	.089	437108	BB	.80771	Heptachlor epoxide
2	24.07	24.07	.090	522706	BV	.80653	gamma-Chlordane
13	24.66	24.67	.088	510035	PV	.81624	alpha-Chlordane
14	25.53	25.53	.084	928983	BV	1.79289	4,4'-DDE
15	27.46	27.46	.132	4673	BV	~~.01190~~	~~4,4' DDD~~
16	27.67	27.67	.083	795764	VB	1.81807	Endosulfan II
17	28.68	28.68	.084	708952	BV	1.63964	Endrin aldehyde
18	29.22	29.22	.083	770382	VB	1.77957	Endosulfan sulfate
19	31.73		.120	6481	BV	0.00000	
20	32.02	32.02	.106	870962	VB	1.82012	Endrin ketone
21	33.93		.317	8076	BB	0.00000	
22	37.68		.163	5656	BB	0.00000	
23	40.19	#40.20	.218	1444168	BB	1.54395	Decachlorobiphenyl

Total Area : 8561706 Total PPB : 16.314

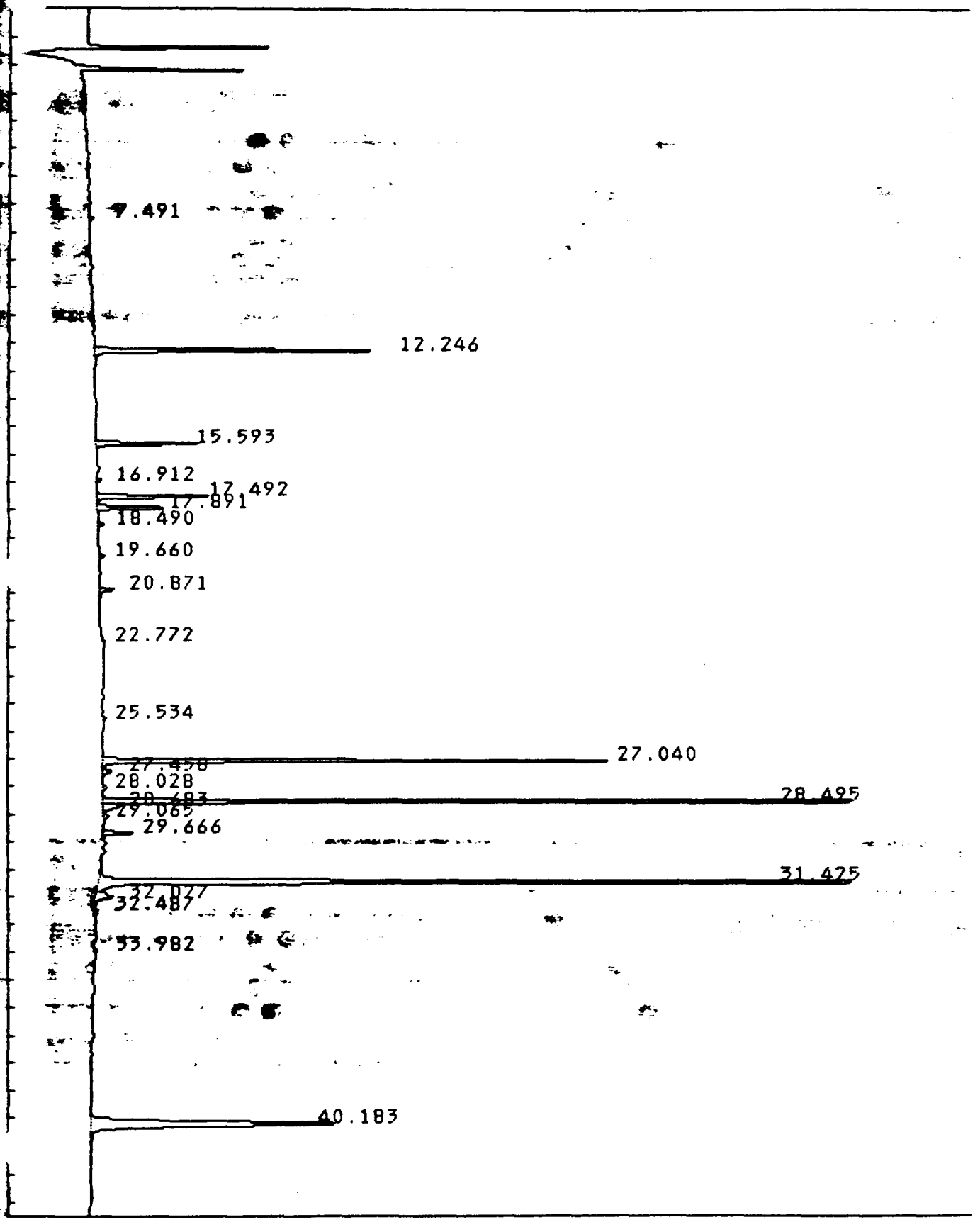
Report Time : 1506 03Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_016.RES

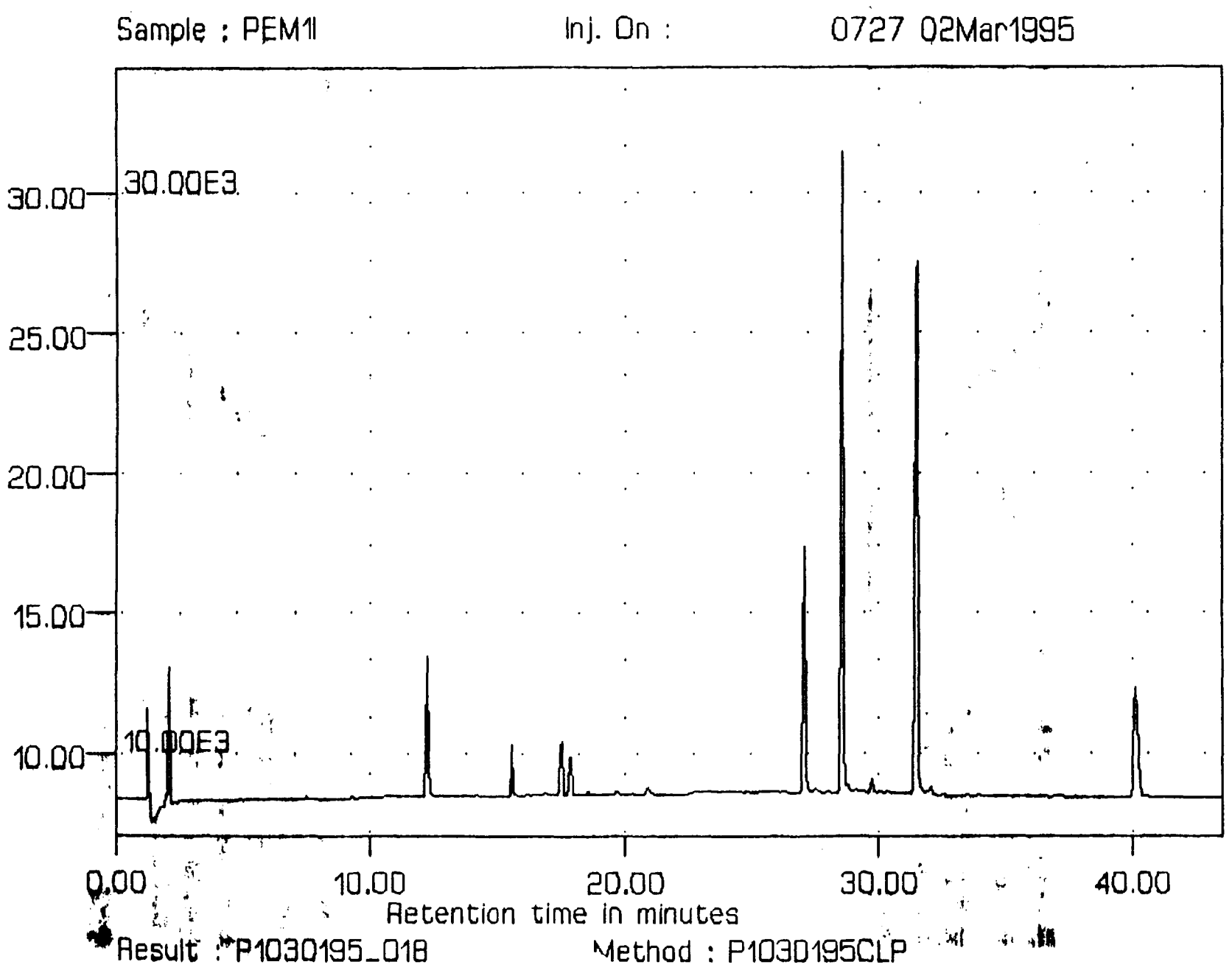
DD
3/7/95

IEA Pesticide Standard Report

2 2 0734

Sample Name : PEM1I Inj on 0727 02Mar1995
Result File : /RESULT/P1030195_018.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : PEM11
Inj. On : 0727 02Mar1995
30.00E3
10.00E3
30.00
25.00
20.00
15.00
10.00
Amplitude / 10E3
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P1030195_018
Method : P1030195CLP

Sample Name : PEM1I Report No : 67.010
Result File : /RESULT/P1030195_018.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0727 02Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 8 Bottle no. : 8

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	7.49		.091	1980	BB	0.00000	
2	12.25	12.25	.089	107751	BB	.21362	Tetrachloro-m-xylene
3	15.59	15.60	.093	40592	BB	.09939	alpha-BHC
4	16.91		.095	1836	BB	0.00000	
5	17.49	17.50	.090	41255	BV	.09639	gamma-BHC (Lindane)
6	17.89	17.90	.094	30533	VB	.09682	beta-BHC
7	18.49		.102	2685	BB	0.00000	
8	19.66		.106	2771	BB	0.00000	
9	20.87		.124	7777	BB	0.00000	
10	22.77		.120	1049	BB	0.00000	
11	25.53	25.53	.110	1648	BB	.00318	4,4'-DDE
12	27.04	27.05	.085	179299	BV	.47416	Endrin
13	27.46	27.46	.174	6573	VV	.01673	4,4'-DDD
14	28.03		.148	2724	PV	0.00000	
15	28.50	28.50	.078	425830	PV	1.05172	4,4'-DDT
16	28.68	28.68	.174	10934	VV	.02529	Endrin aldehyde
17	29.07		.117	2293	VB	0.00000	
18	29.67		.097	11350	BV	0.00000	
19	31.42	31.43	.106	481412	BV	2.28773	Methoxychlor
20	32.03	32.02	.221	16462	VV	.03440	Endrin ketone
21	32.49		.227	3533	PB	0.00000	
22	33.98		.168	1831	PB	0.00000	
23	40.18	#40.20	.215	201274	BB	.21518	Decachlorobiphenyl

Total Area : 1583389 Total PPB : 4.615

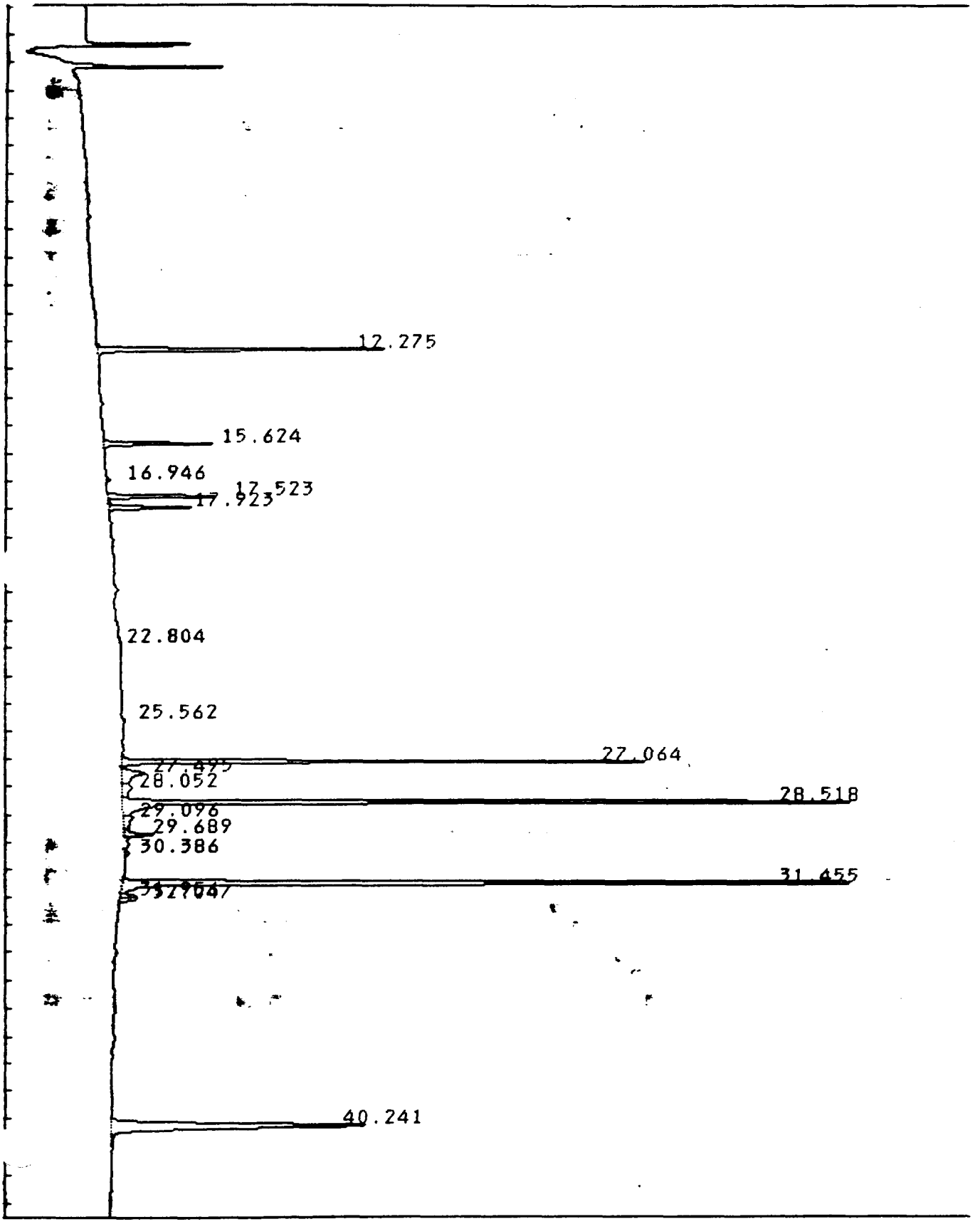
Report Time : 1515 03Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_018.RES

DD
3/7/95

IEA Pesticide Standard Report

2 2 0737

Sample Name : PEM7Z Inj on 1620 08Mar1995
Result File : /RESULT/P1030195_073.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



3 1B

IEA Pesticide Standard Report 2 2 0733

Sample Name : PEM7Z Report No : 126.000
Result File : /RESULT/P1030195_073.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.52 Mins. Injected on 1620 08Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 63 Bottle no. : 63

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.27	12.25	.087	103983	BB	.20615✓	Tetrachloro-m-xylene
2	15.62	15.60	.095	43666	BB	.10691✓	alpha-BHC
3	16.95		.088	1602	BB	0.00000	
4	17.52	17.50	.091	43371	BV	.10133✓	gamma-BHC (Lindane)
5	17.92	17.90	.093	30954	VB	.09816✓	beta-BHC
6	22.80		.102	450	BB	0.00000	
7	25.56	25.53	.082	894	BB	.00173	4,4'-DDE
8	27.06	27.05	.084	177832	BB	.47028✓	Endrin
9	27.49	27.46	.294	25558	BV	.06507	4,4'-DDD
10	28.05		.339	14301	VV	0.00000	
11	28.52	28.50	.082	458415	VV	1.13220✓	4,4'-DDT
12	29.10		.321	12771	VV	0.00000	
13	29.69		.112	14530	VV	0.00000	
14	30.39		.180	3996	VB	0.00000	
15	31.46	31.43	.106	469132	BV	2.22937✓	Methoxychlor
16	31.96		.125	7740	VV	0.00000	
17	32.05	32.02	.116	7452	VB	.01557	Endrin ketone
18	40.24	#40.20	.216	204413	BB	.21854✓	Decachlorobiphenyl

Total Area : 1621061 Total PPB : 4.645

Report Time : 1709 08Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_073.RES

3 114

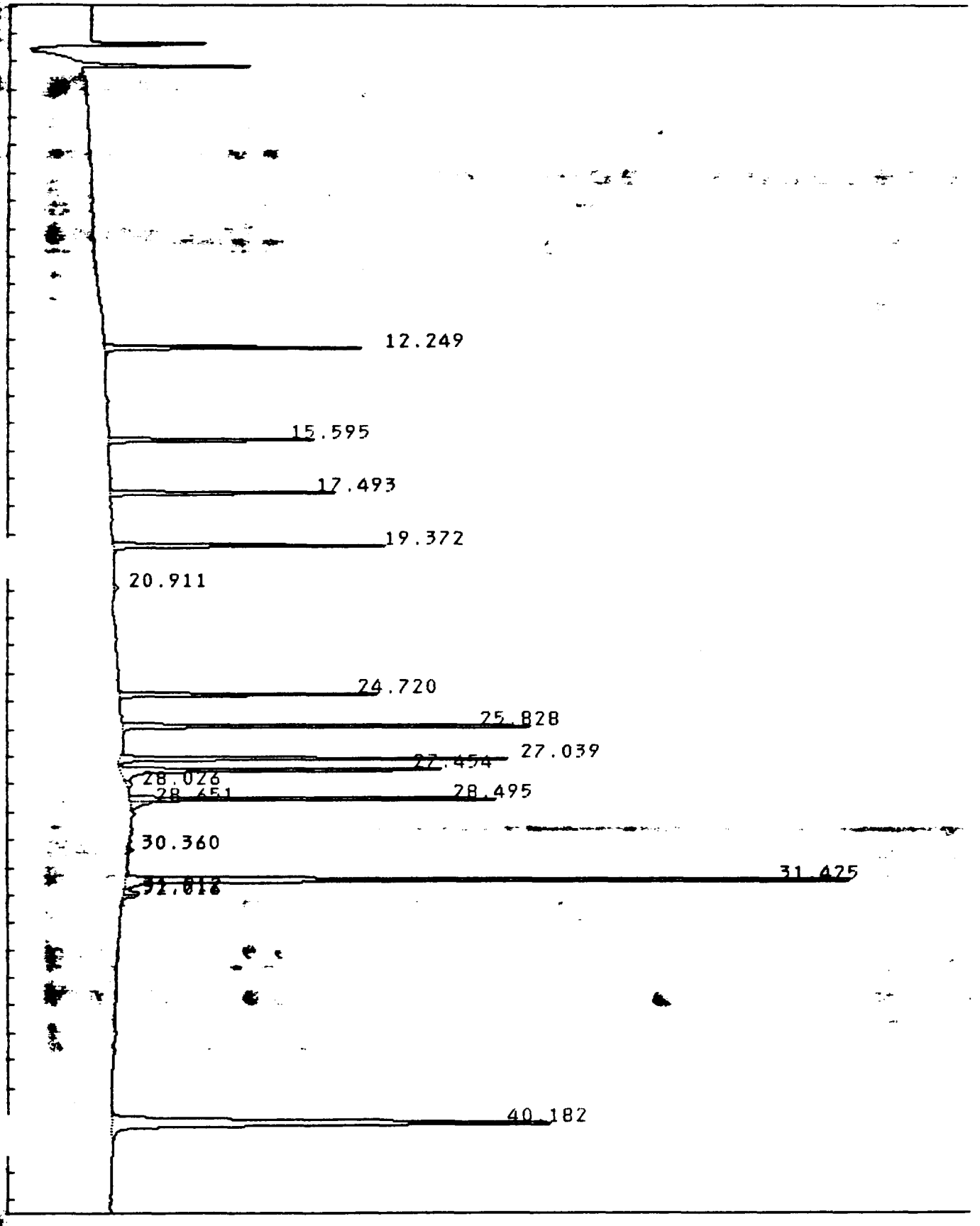
~~3 113~~

BO 3-17-9

IEA Pesticide Standard Report

2 2 0739

Sample Name : INDAM1U Inj on 0232 09Mar1995
Result File : /RESULT/P1030195_084.RES INSTRUMENT : HP5890P1
olumn Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

2 2 0740

Sample Name : INDAM1U Report No : 137.000
Result File : /RESULT/P1030195_084.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0232 09Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 74 Bottle no. : 74

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.25	12.25	.090	99459	BB	.19718	Tetrachloro-m-xylene
2	15.60	15.60	.089	80838	BB	.19792	alpha-BHC
3	17.49	17.50	.090	84474	BB	.19736	gamma-BHC (Lindane)
4	19.37	19.38	.105	114249	BB	.19448	Heptachlor
5	20.91	20.93	.142	2642	BB	~~.00519~~	~~Aldrin~~
6	24.72	24.73	.089	93481	BB	.19347	Endosulfan I
7	25.83	25.83	.086	179051	BB	.39034	Dieldrin
8	27.04	27.05	.086	140458	BV	.37144	Endrin
9	27.45	27.46	.099	153286	PV	.39024	4,4'-DDD
10	28.03		.231	4982	VB	0.00000	
11	28.49	28.50	.079	154724	BV	.38214	4,4'-DDT
2	28.65	28.68	.151	13873	VV	~~.03208~~	~~Endrin aldehyde~~
13	30.36		.104	2054	BB	0.00000	
14	31.43	31.43	.106	402637	BV	1.91338	Methoxychlor
15	31.91		.132	7958	VV	0.00000	
16	32.02	32.02	.110	6316	VB	~~.01320~~	~~Endrin ketone~~
17	40.18	#40.20	.216	364811	BB	.39002	Decachlorobiphenyl

Total Area : 1905294 Total PPB : 4.868

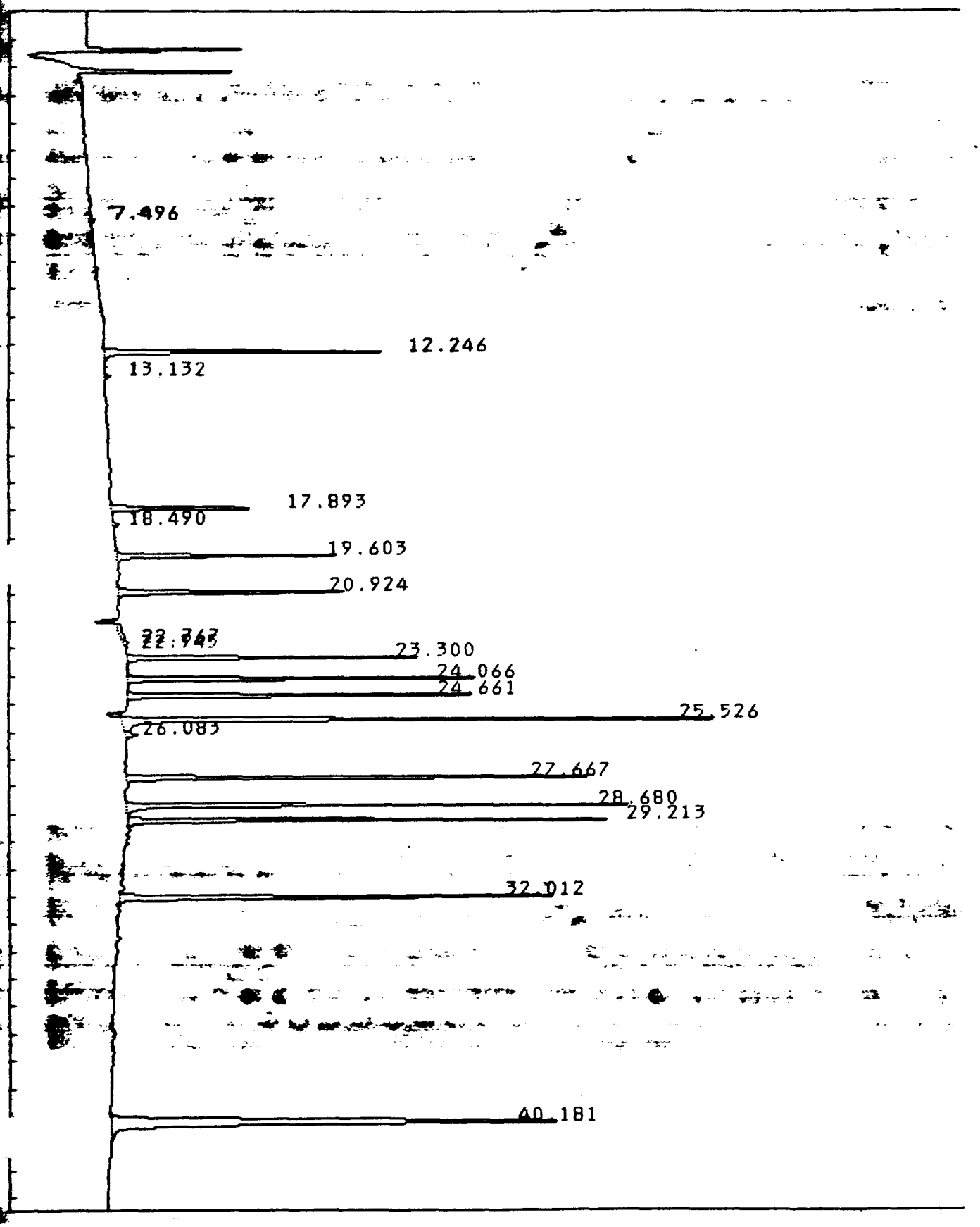
Report Time : 0317 09Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_084.RES

RPC
3/9/95

IEA Pesticide Standard Report

2 2 0741

Sample Name : INDBM1U Inj on 0327 09Mar1995
Result File : /RESULT/P1030195_085.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter 0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report 2 2 0742

Sample Name : INDBM1U Report No : 138.000
esult File : /RESULT/P1030195_085.RES
olumn Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0327 09Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 75 Bottle no. : 75

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	7.50		.092	1727	BB	0.00000	
2	12.25	12.25	.090	108707	BB	.21551✓	Tetrachloro-m-xylene
3	13.13		.104	2452	BB	0.00000	
4	17.89	17.90	.092	61873	BB	.19620✓	beta-BHC
5	18.49		.102	2652	BB	0.00000	
6	19.60	19.61	.094	84124	PB	.19674✓	delta-BHC
7	20.92	20.93	.107	101212	BB	.19862✓	Aldrin
8	22.77		.319	7849	BV	0.00000	
9	22.94		.121	1133	VB	0.00000	
10	23.30	23.31	.091	105769	BB	.19544✓	Heptachlor epoxide
11	24.07	24.07	.091	126255	BB	.19481✓	gamma-Chlordane
12	24.66	24.67	.089	122613	BV	.19623✓	alpha-Chlordane
13	25.53	25.53	.090	217001	BV	.41880✓	4,4'-DDE
14	26.08		.111	6115	VB	0.00000	
15	27.67	27.67	.082	172416	BV	.39392✓	Endosulfan II
16	28.68	28.68	.085	174481	BV	.40354✓	Endrin aldehyde
17	29.21	29.22	.084	171582	VV	.39635✓	Endosulfan sulfate
18	32.01	32.02	.109	191027	PB	.39921✓	Endrin ketone
19	40.18	#40.20	.216	374175	BB	.40003✓	Decachlorobiphenyl

Total Area : 2033164 Total PPB : 3.805

Report Time : 0412 09Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_085.RES

RPC
3/9/95

PESTICIDE STANDARDS

COLUMN: DB-1701

INSTRUMENT: HP5890P2

1 ul injected

COMPOUND	NG INJECTED LOW	MEDIUM	HIGH
INDA:			
alpha-BHC	0.005	0.020	0.080
Heptachlor	0.005	0.020	0.080
gamma-BHC	0.005	0.020	0.080
Endosulfan I	0.005	0.020	0.080
Dieldrin	0.010	0.040	0.160
Endrin	0.010	0.040	0.160
4,4'-DDD	0.010	0.040	0.160
4,4'-DDT	0.010	0.040	0.160
Methoxychlor	0.050	0.200	0.800
Tetrachloro-m-xylene	0.005	0.020	0.080
Decachlorobiphenyl	0.010	0.040	0.160
NDB:			
beta-BHC	0.005	0.020	0.080
delta-BHC	0.005	0.020	0.080
Aldrin	0.005	0.020	0.080
Heptachlor epoxide	0.005	0.020	0.080
alpha-Chlordane	0.005	0.020	0.080
gamma-Chlordane	0.005	0.020	0.080
4,4'-DDE	0.010	0.040	0.160
Endosulfan sulfate	0.010	0.040	0.160
Endrin aldehyde	0.010	0.040	0.160
Endrin ketone	0.010	0.040	0.160
Endosulfan II	0.010	0.040	0.160
Tetrachloro-m-Xylene	0.005	0.020	0.080
Decachlorobiphenyl	0.010	0.040	0.160

PESTICIDE STANDARDS

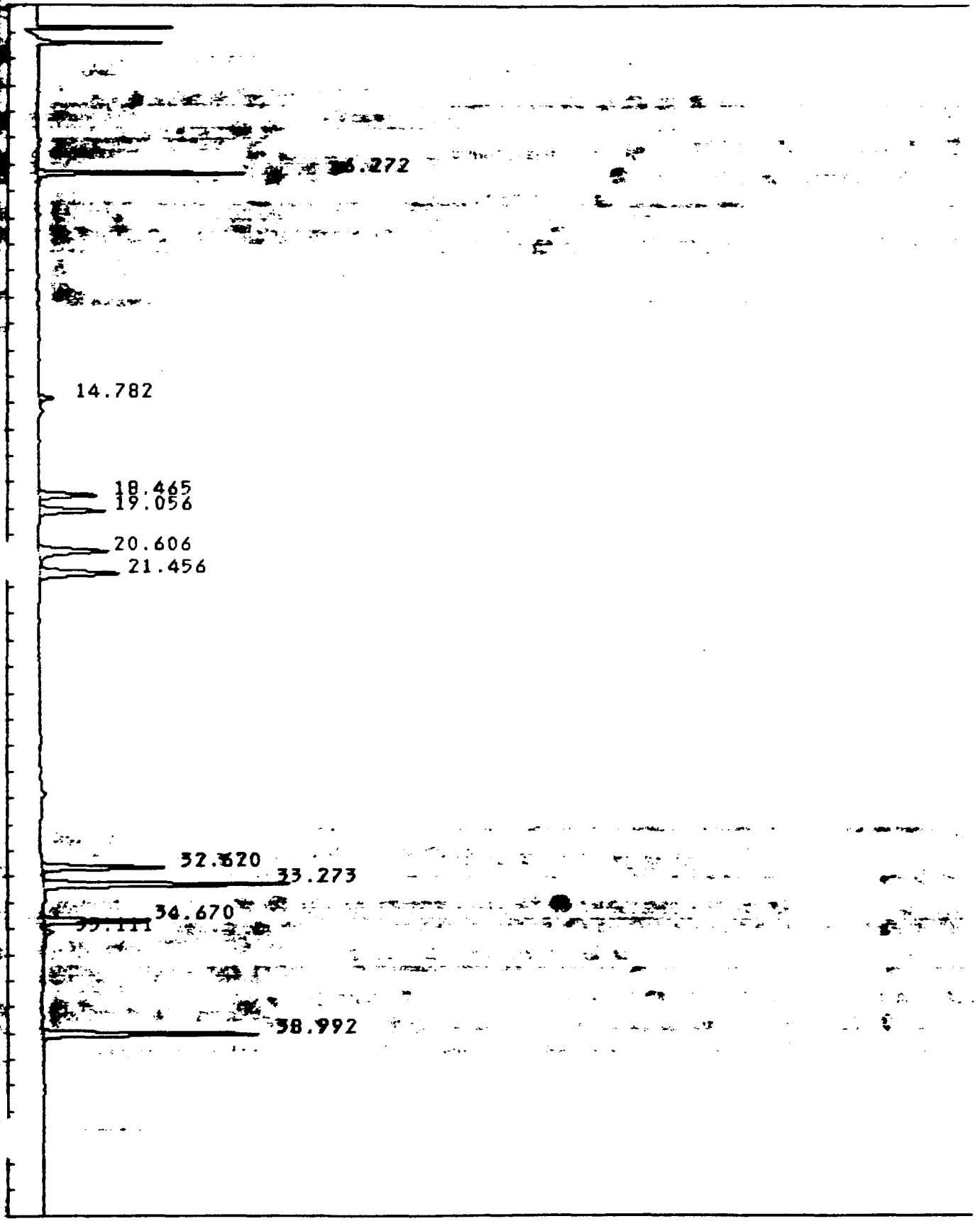
COLUMN: DB-1701 INSTRUMENT: HP5890P2 1 ul injected

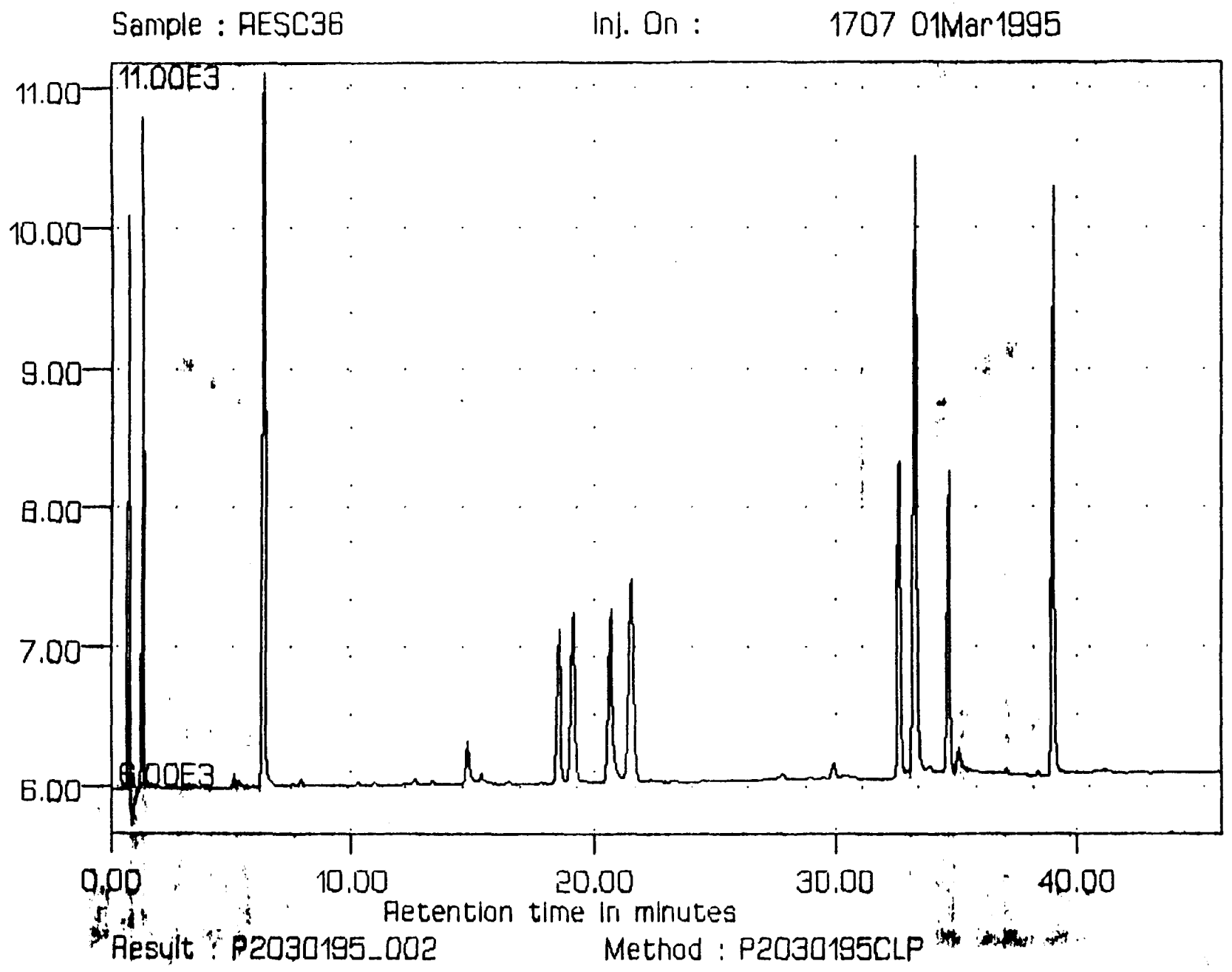
COMPOUND	NG INJECTED
RESC:	
gamma-Chlordane	0.010
Endosulfan I	0.010
p,p'-DDE	0.020
Dieldrin	0.020
Endosulfan sulfate	0.020
Endrin ketone	0.020
Methoxychlor	0.100
Tetrachloro-m-xylene	0.020
Decachlorobiphenyl	0.020
PEM:	
gamma-BHC	0.010
lpha-BHC	0.010
,4'-DDT	0.100
beta-BHC	0.010
Endrin	0.050
Methoxychlor	0.250
tetrachloro-m-xylene	0.020
Decachlorobiphenyl	0.020
AR1660 (combination of AR1016 & AR1260)	0.200
AR1221	0.200
AR1232	0.100
AR1242	0.100
AR1248	0.100
AR1254	0.100
TOXAPH	0.500

Pesticide Standard Report

2 2 0745

Sample Name : RESC36 Inj on 1707 01Mar1995
Result File : RESULT/P2030195_002.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : RESC36
Inj. On : 1707 01Mar1995
11.00E3
6.00E3
11.00
10.00
9.00
8.00
7.00
6.00
Amplitude / 10E3
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P2030195_002
Method : P2030195CLP

IEA Pesticide Standard Report

Sample Name : RESC36 Report No : 23.01
Result File : /RESULT/P2030195_002.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 1707 01Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 1/ 2 Bottle no. : 2

Dil-fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.27	6.26	.080	98437	BB	.22868	Tetrachloro-m-xylene
2	14.78	14.79	.143	10015	BB	~~.03564~~	~~beta-BHC~~
3	18.46	18.43	.174	45271	BB	.10345	Endosulfan I
4	19.06	19.02	.181	51948	BB	.09598	gamma-Chlordane
5	20.61	20.56	.236	70056	BV	.20714	4,4'-DDE
6	21.46	21.41	.224	77192	VB	.20374	Dieldrin
7	32.62	32.60	.150	80664	BB	.20397	Endosulfan sulfate
8	33.27	33.25	.149	157828	BB	.91173	Methoxychlor
9	34.67	34.65	.140	71861	BV	.19357	Endrin ketone
10	35.11		.162	6050	PB	0.00000	
11	38.99	#38.97	.137	137876	BB	.22045	Decachlorobiphenyl

Total Area : 807198 Total PPB : 2.404

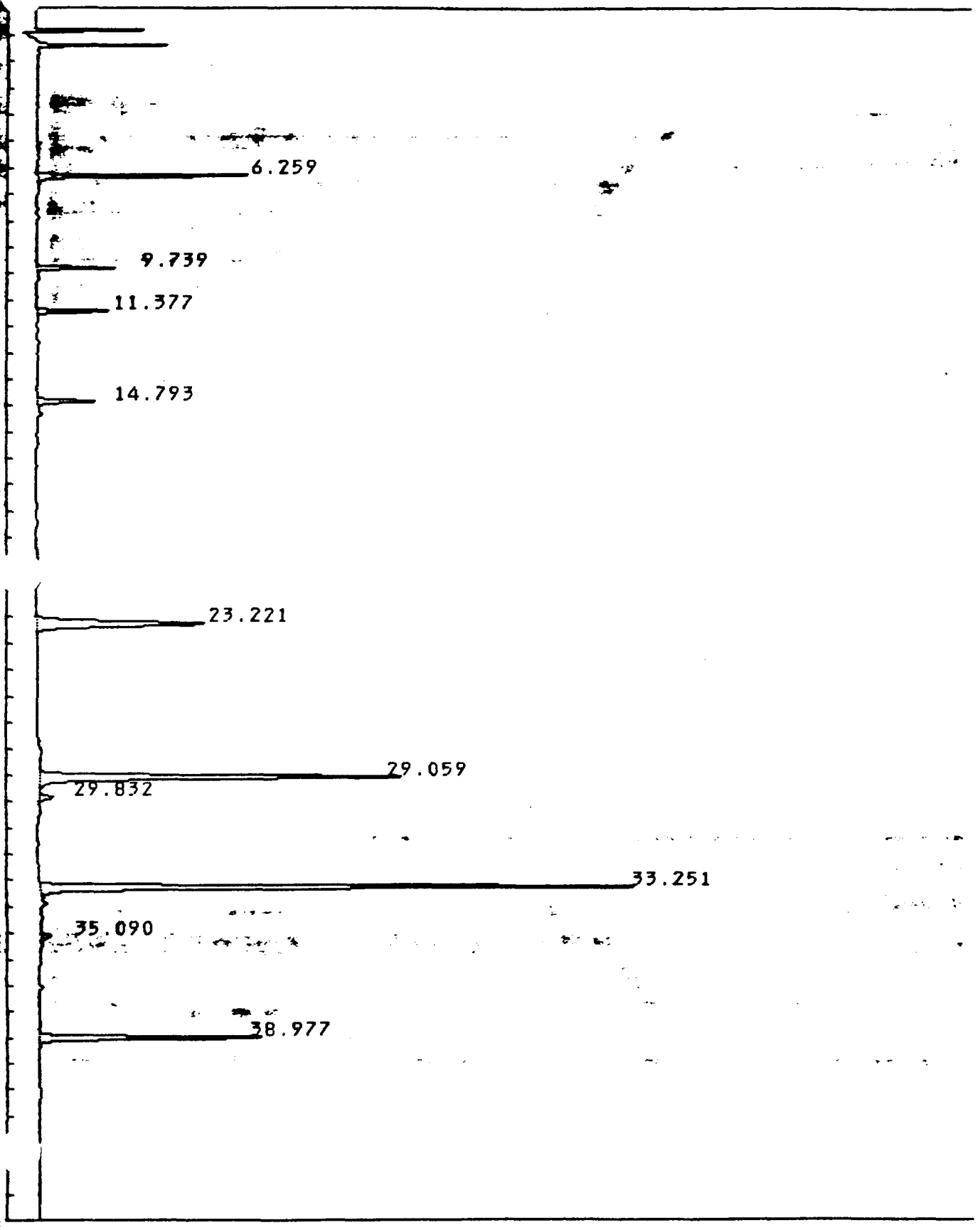
Report Time : 1313 03Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_002.RES

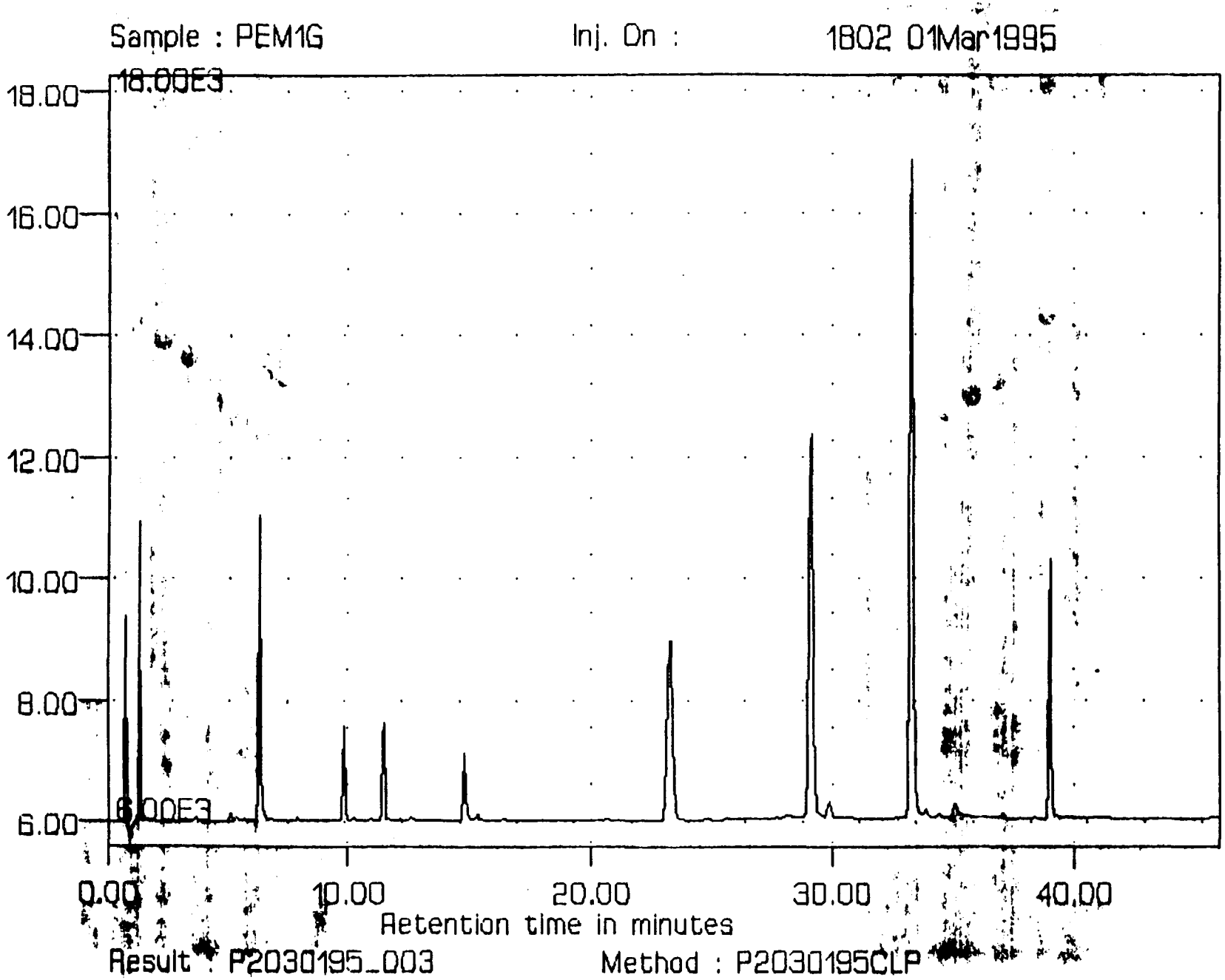
DD
3/6/95

IEA Pesticide Standard Report

2 2 0743

Sample Name : PEM1G Inj on 1802 01Mar1995
Result File : /RESULT/P2030195_003.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : PEM1G
Inj. On : 1802 01Mar1995
18.00E3
16.00
14.00
12.00
10.00
8.00
6.00
6.00E3
Amplitude / nVs
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P2030195_003
Method : P2030195CLP

IEA Pesticide Standard Report 2 2 0750

Sample Name : PEM1G Report No : 24.01
Result File : /RESULT/P2030195_003.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 1802 01Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 1/ 3 Bottle no. : 3

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.081	98123	BB	.22795	Tetrachloro-m-xylene
2	9.74	9.74	.090	33152	BB	.09979	alpha-BHC
3	11.38	11.37	.093	35442	BB	.09782	gamma-BHC (Lindane)
4	14.79	14.79	.119	31383	BB	.11169	beta-BHC
5	23.22	23.22	.241	170774	BB	.46484	Endrin
6	29.06	29.06	.180	270933	BV	.96265	4,4'-DDT
7	29.83		.167	10425	VB	0.00000	
8	33.25	33.25	.146	376345	BV	2.17405	Methoxychlor
9	35.09		.163	7391	BB	0.00000	
10	38.98	#38.97	.136	139082	BB	.22238	Decachlorobiphenyl

Total Area : 1173049 Total PPB : 4.361

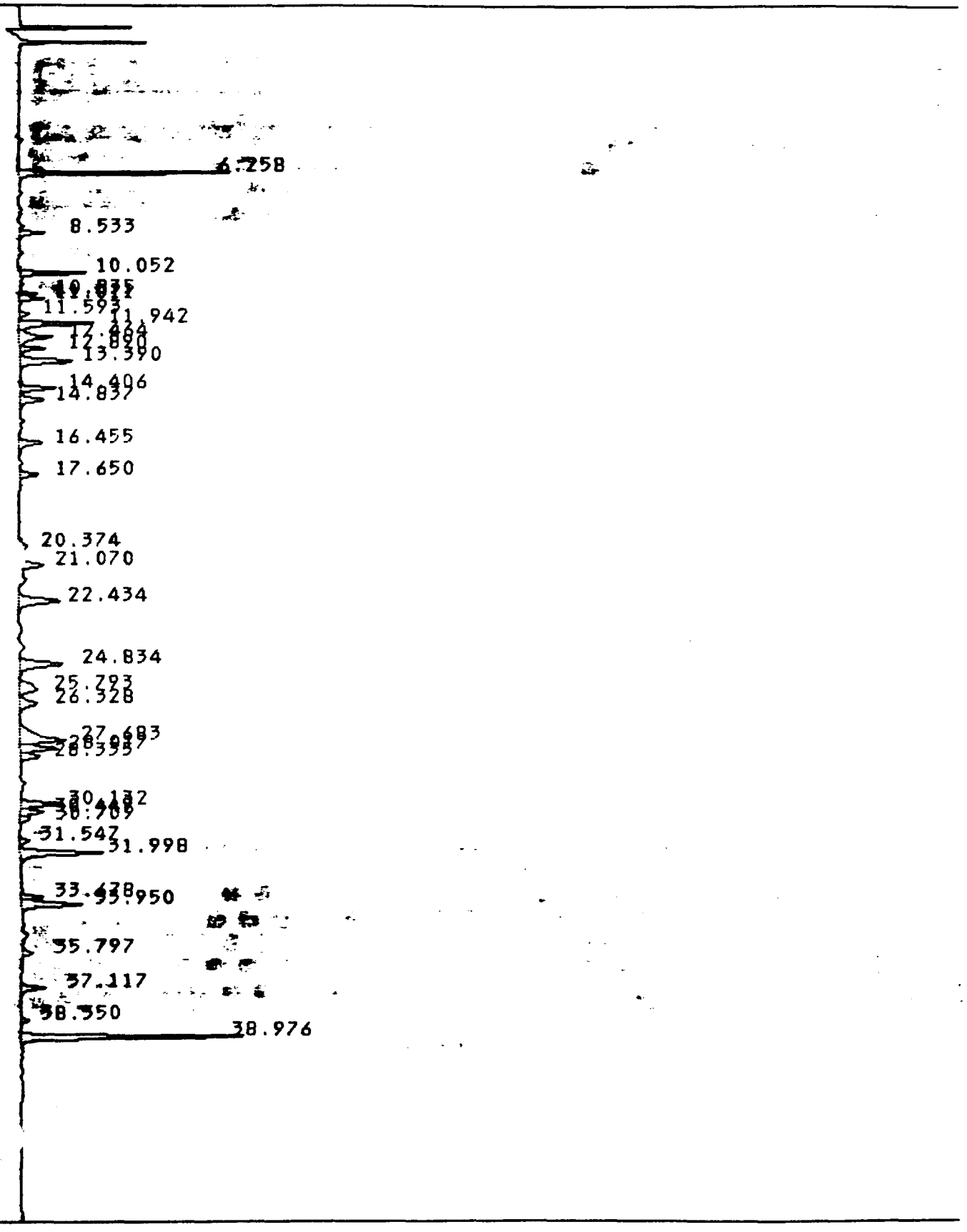
Report Time : 1316 03Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_003.RES

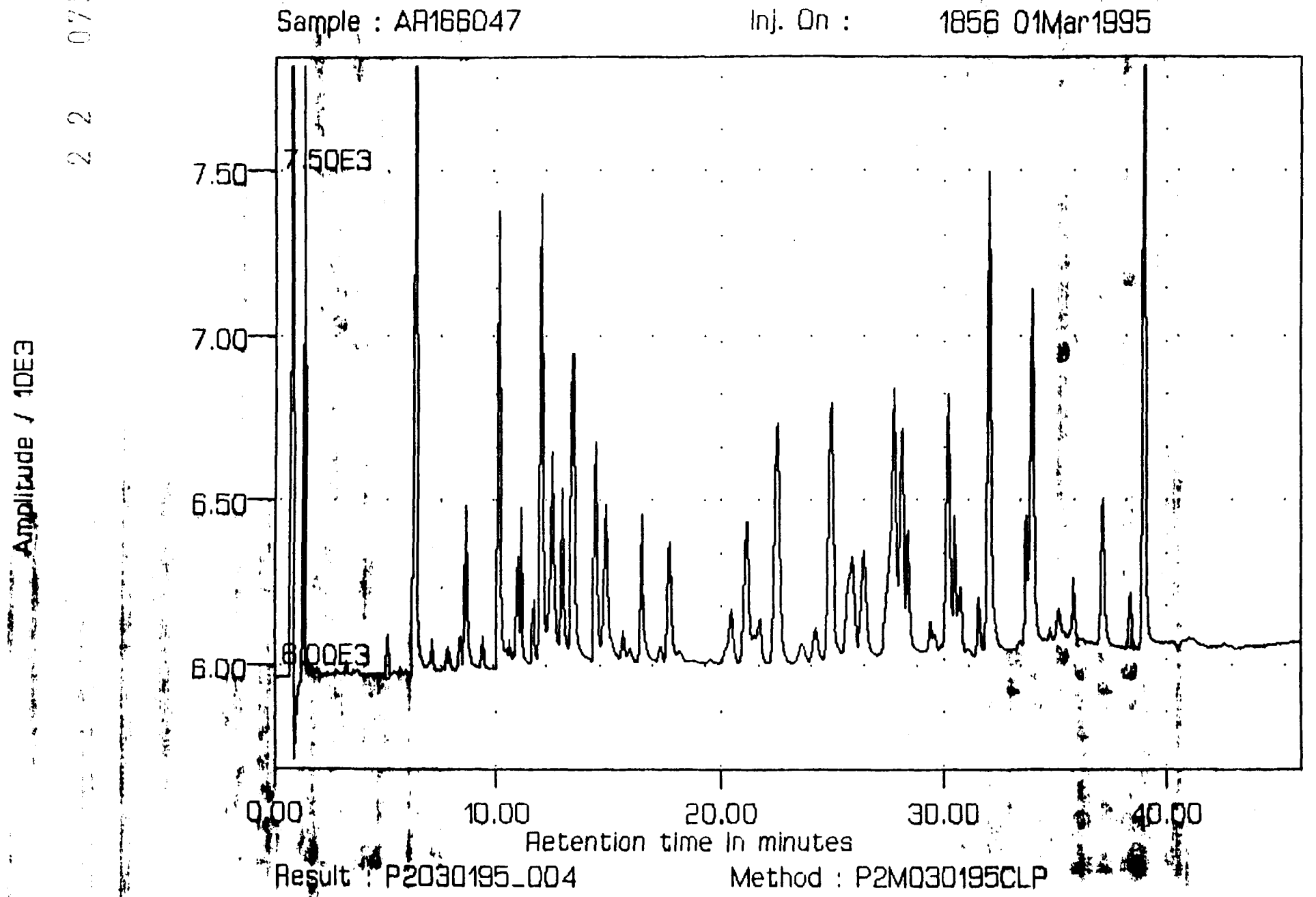
DD 3/7/95

IEA Pesticide Standard Report

2 2 0751

Sample Name : AR166047 Inj on 1856 01Mar1995
Result File : /RESULT/P2030195_004.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : AR166047
Inj. On : 1856 01Mar1995
7.50E3
7.00
6.50
6.00E3
Amplitude / 10E3
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P2030195_004
Method : P2M030195CLP

Sample Name : AR166047 Report No : 25.01
Result File : /RESULT/P2030195_004.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 1856 01Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 2/ 1 Bottle no. : 1

% Dil-Fact
: 100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.081	96746	BB	.22475	Tetrachloro-m-xylene
2	8.53		.112	12852	VB	0.00000	
3	10.05		.104	34117	BB	0.00000	
4	10.84		.105	7849	PV	0.00000	
5	11.01		.110	12211	VB	0.00000	
6	11.59		.126	5704	BV	0.00000	
7	11.94		.140	47436	VV	0.00000	
8	12.46		.192	29090	VV	0.00000	
9	12.89		.135	16738	VV	0.00000	
10	13.39		.205	45484	VB	0.00000	
11	14.41		.152	23912	BV	0.00000	
2	14.84		.203	22463	VB	0.00000	
13	16.45		.178	18739	BB	0.00000	
14	17.65		.171	14385	PV	0.00000	
15	20.37		.258	10239	BB	0.00000	
16	21.07		.210	19638	BV	0.00000	
17	22.43		.248	42817	BB	0.00000	
18	24.83		.253	47118	PV	0.00000	
19	25.79		.361	26261	VV	0.00000	
20	26.33		.263	19922	VB	0.00000	
21	27.68		.301	57606	BV	0.00000	
22	28.02		.201	32475	VV	0.00000	
23	28.34		.201	17419	VB	0.00000	
24	30.13		.180	33652	VV	0.00000	
25	30.45		.178	17565	VV	0.00000	
26	30.71		.167	7860	VV	0.00000	
27	31.55		.176	7226	BV	0.00000	
28	32.00		.183	63978	VB	0.00000	
29	33.68		.148	13881	VV	0.00000	
30	33.95		.179	46270	VB	0.00000	
31	35.80		.156	6728	BB	0.00000	
32	37.12		.164	17540	BB	0.00000	
33	38.35		.137	5504	BB	0.00000	
34	38.98	#38.97	.138	138151	BB	.22089	Decachlorobiphenyl

Total Area : 1019577 Total PPB : .446

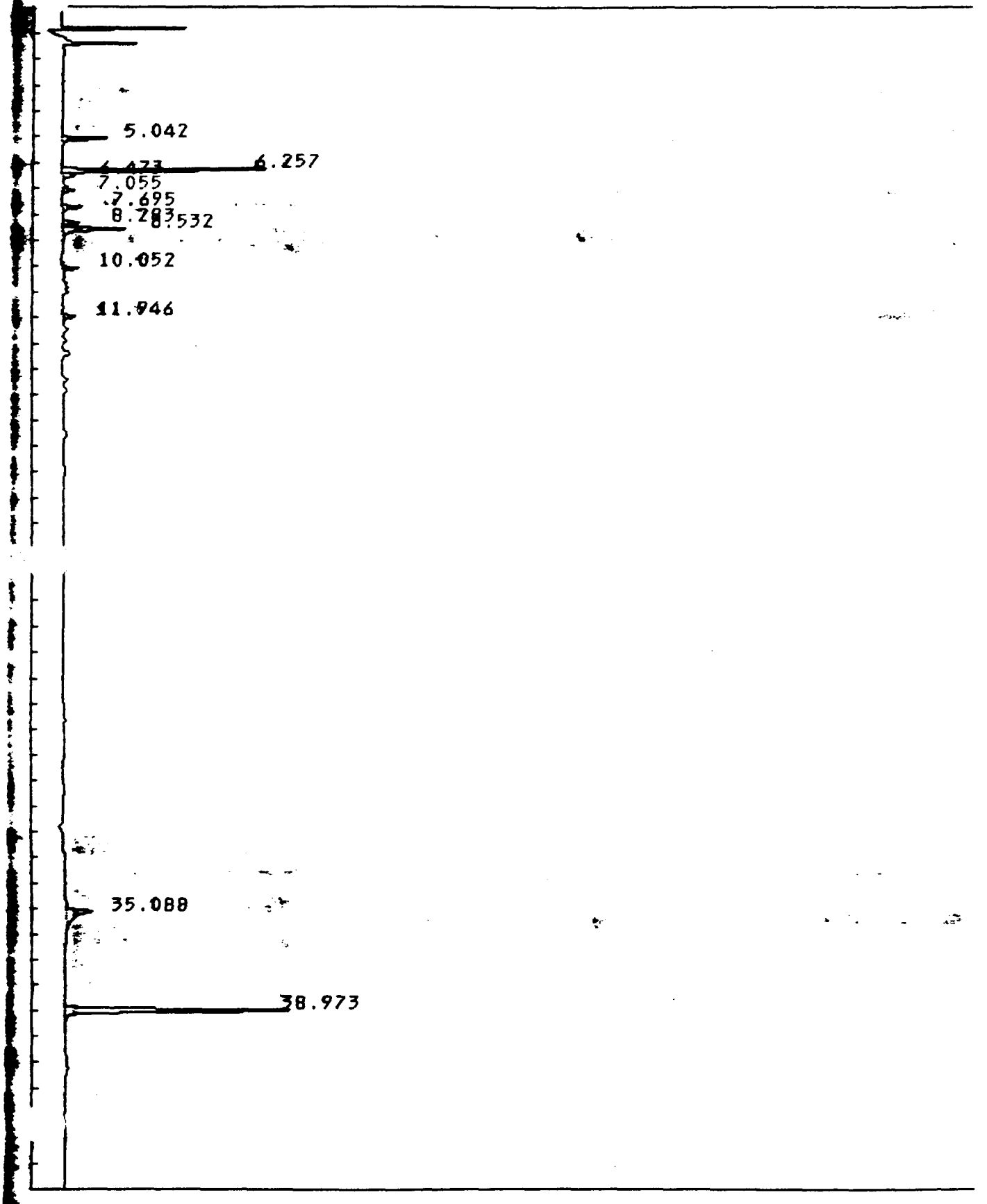
Report Time : 1320 03Mar1995
Method : /METHOD/P2M030195CLP.MTH

DD 3/1/95

IEA Pesticide Standard Report

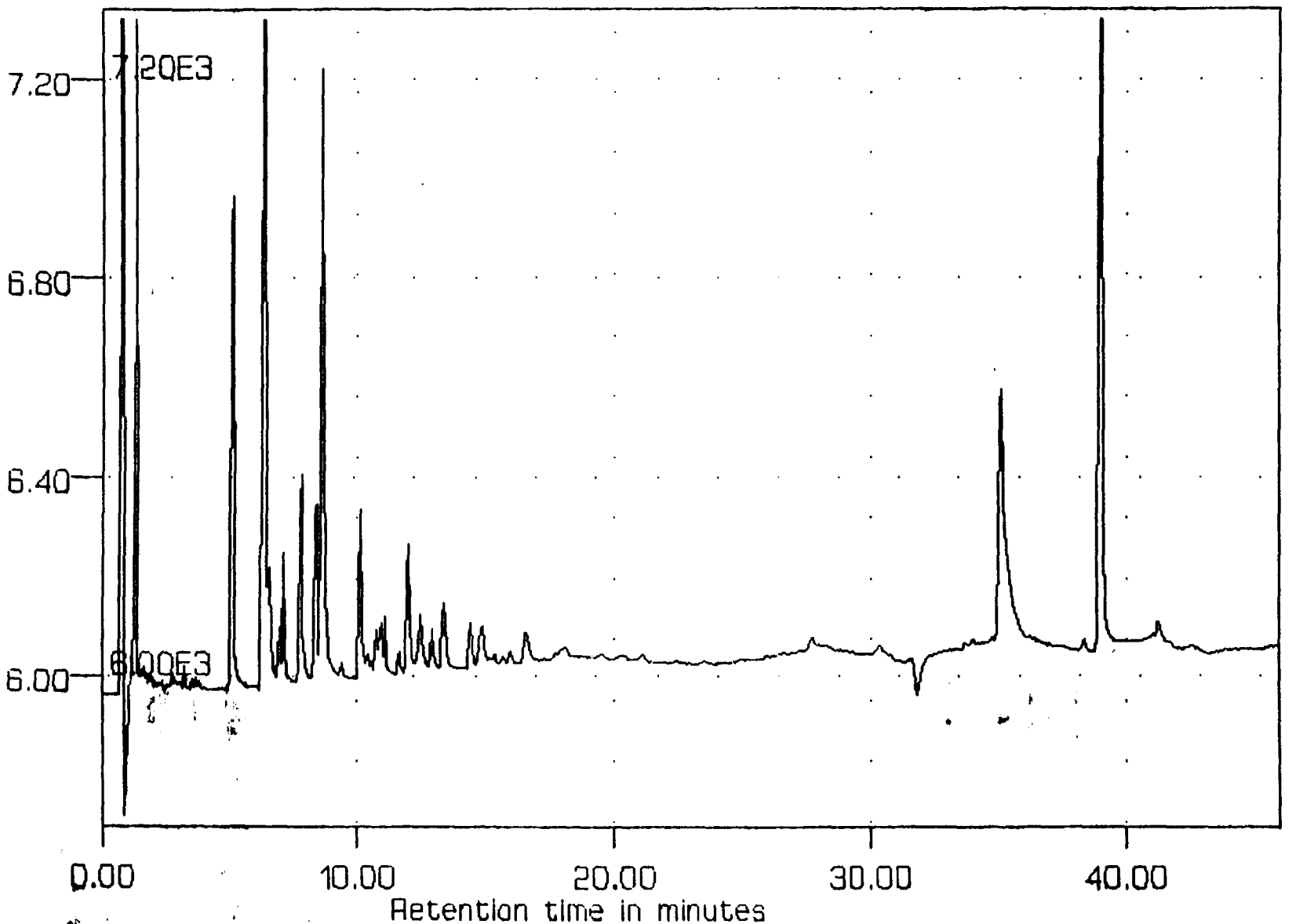
2 2 0755

Sample Name : AR122147 Inj on 1950 01Mar1995
Result File : /RESULT/P2030195_005.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



2 2 0755

Sample : AR122147 Inj. On : 1950 01Mar1995



Result : P2030195_005 Method : P2M030195CLP

Pesticide Standard Report

Sample Name : [illegible]R122147 Report No : 26.01
Result File : /RESULT/P2030195_005.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : [illegible]6.00 Mins. Injected on 1950 01Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : [illegible]/ 2 Bottle No. : 2

% Dil-Fact
[illegible]00.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	5.04		.085	20076	BB	0.00000	
2	6.26	6.26	.078	92903	BV	.21583	Tetrachloro-m-xylene
3	6.47		.124	6569	VB	0.00000	
4	7.05		.091	5431	VB	0.00000	
5	7.70		.124	12305	BB	0.00000	
6	8.29		.099	8058	BV	0.00000	
7	8.53		.115	33313	VB	0.00000	
8	10.05		.102	7991	BB	0.00000	
9	11.95		.124	7326	BB	0.00000	
10	35.09		.266	31488	BB	0.00000	
11	38.97	#38.97	.136	141949	BB	.22696	Decachlorobiphenyl

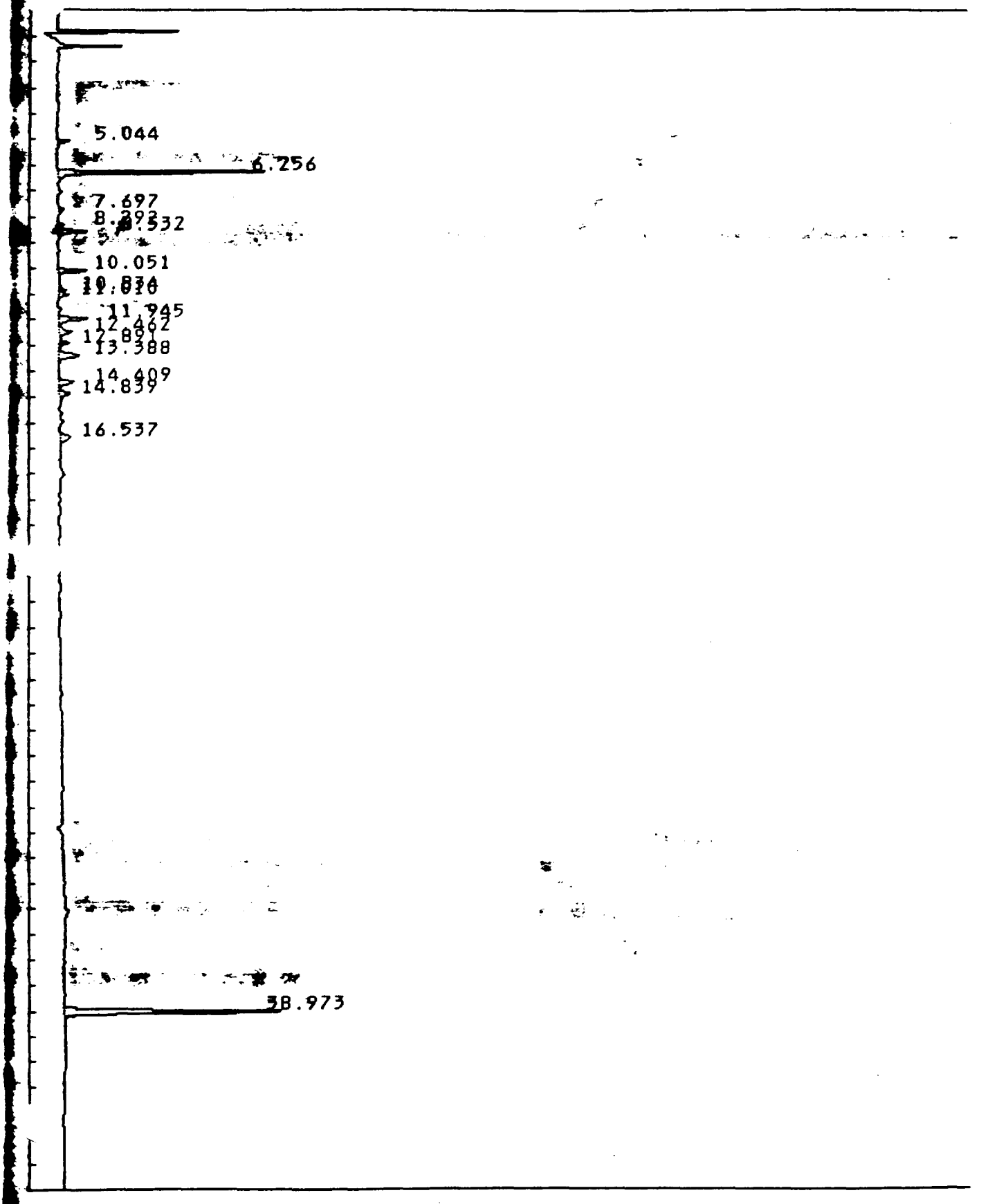
Total Area : 367409 Total PPB : .443

Report Time : 1324 03Mar1995
Method : /METHOD/P2M030195CLP.MTH
Result File : /RESULT/P2030195_005.RES

DD
3/7/95

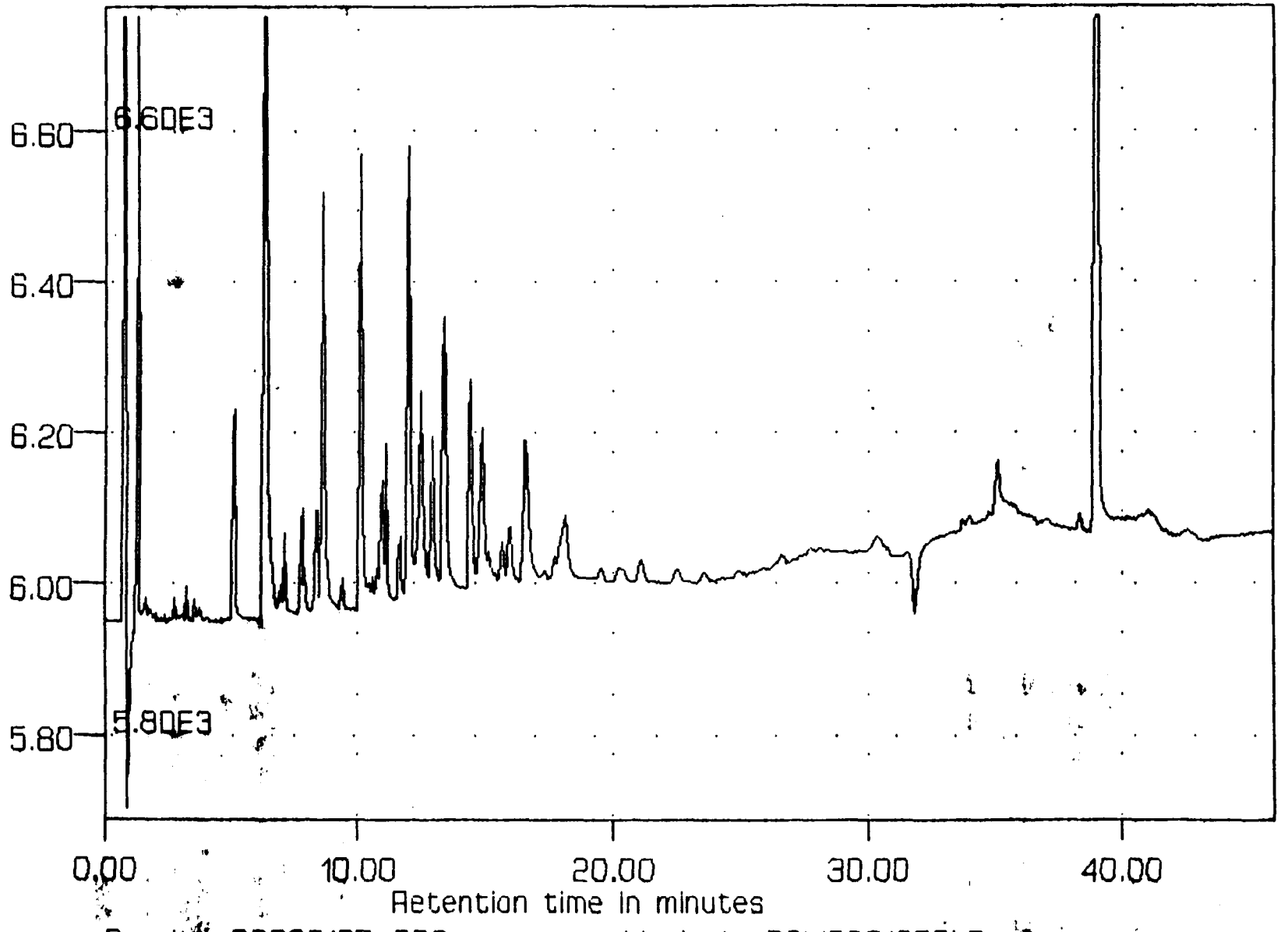
EA Pesticide Standard Report

Sample Name : AR123247 Inj on 2045 01Mar1995
Result File : /RESULT/P2030195_006.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



2 2 0752

Sample : AR123247 Inj. On : 2045 01Mar1995



Result : P2030195_006 Method : P2M030195CLP

TEA Pesticide Standard Report

Sample Name : AR123247 Report No : 27.01
Result File : /RESULT/P2030195_006.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 2045 01Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 2/ 3 Bottle no. : 3

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	5.04		.081	5391	BB	0.00000	
2	6.26	6.26	.080	96370	BB	.22388	Tetrachloro-m-xylene
3	7.70		.090	2532	BV	0.00000	
4	8.29		.096	2899	BV	0.00000	
5	8.53		.113	14716	VB	0.00000	
6	10.05		.105	14879	BB	0.00000	
7	10.83		.093	2978	BV	0.00000	
8	11.01		.105	4772	VB	0.00000	
9	11.94		.137	19202	BV	0.00000	
10	12.46		.161	9778	VB	0.00000	
11	12.89		.118	5340	BV	0.00000	
12	13.39		.189	15826	PB	0.00000	
13	14.41		.149	9764	BV	0.00000	
14	14.84		.193	9312	VB	0.00000	
15	16.54		.284	12238	BB	0.00000	
16	38.97	#38.97	.136	136252	BB	.21785	Decachlorobiphenyl

Total Area : 362250 Total PPB : .442

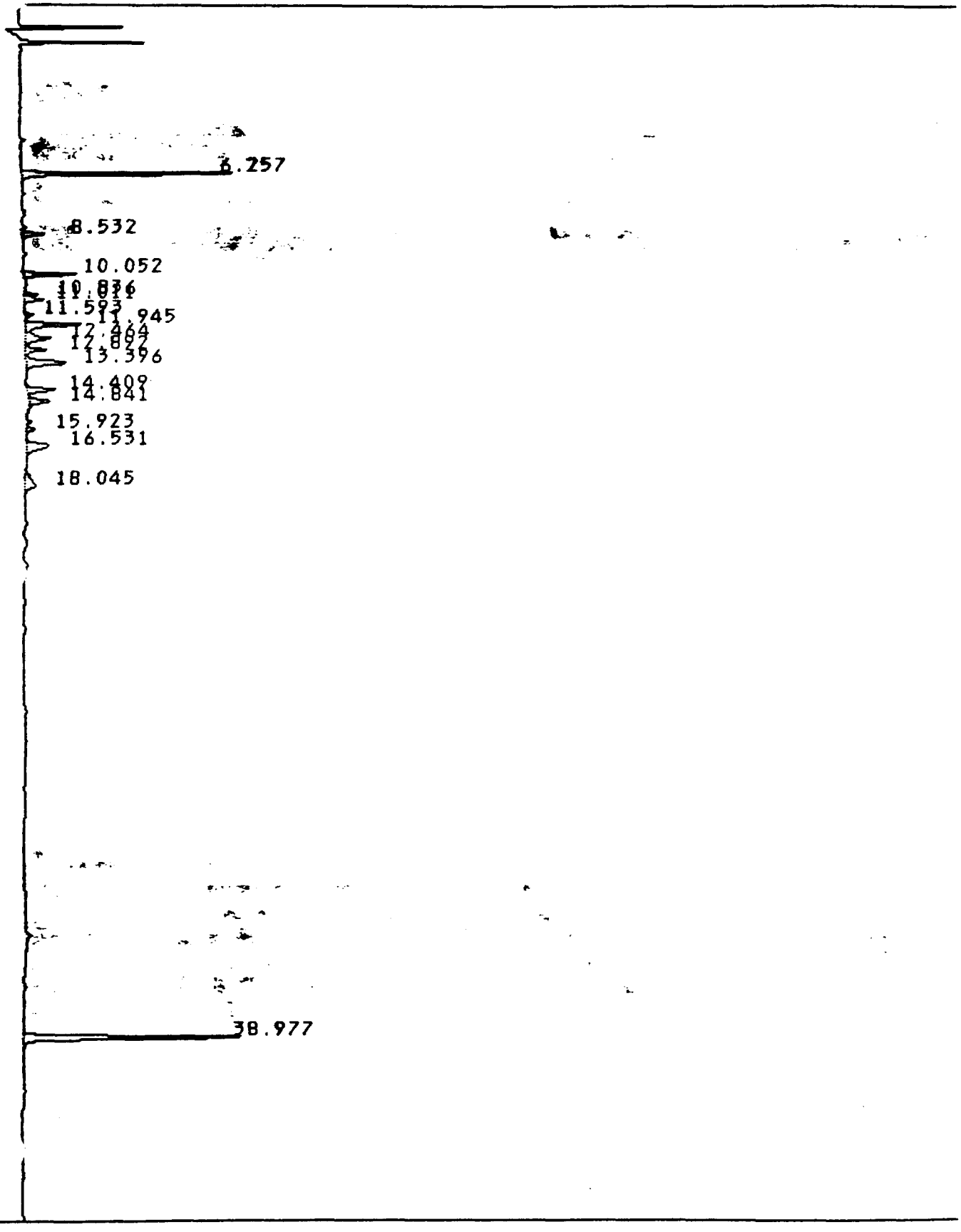
Report Time : 1329 03Mar1995
Method : /METHOD/P2M030195CLP.MTH
Result File : /RESULT/P2030195_006.RES

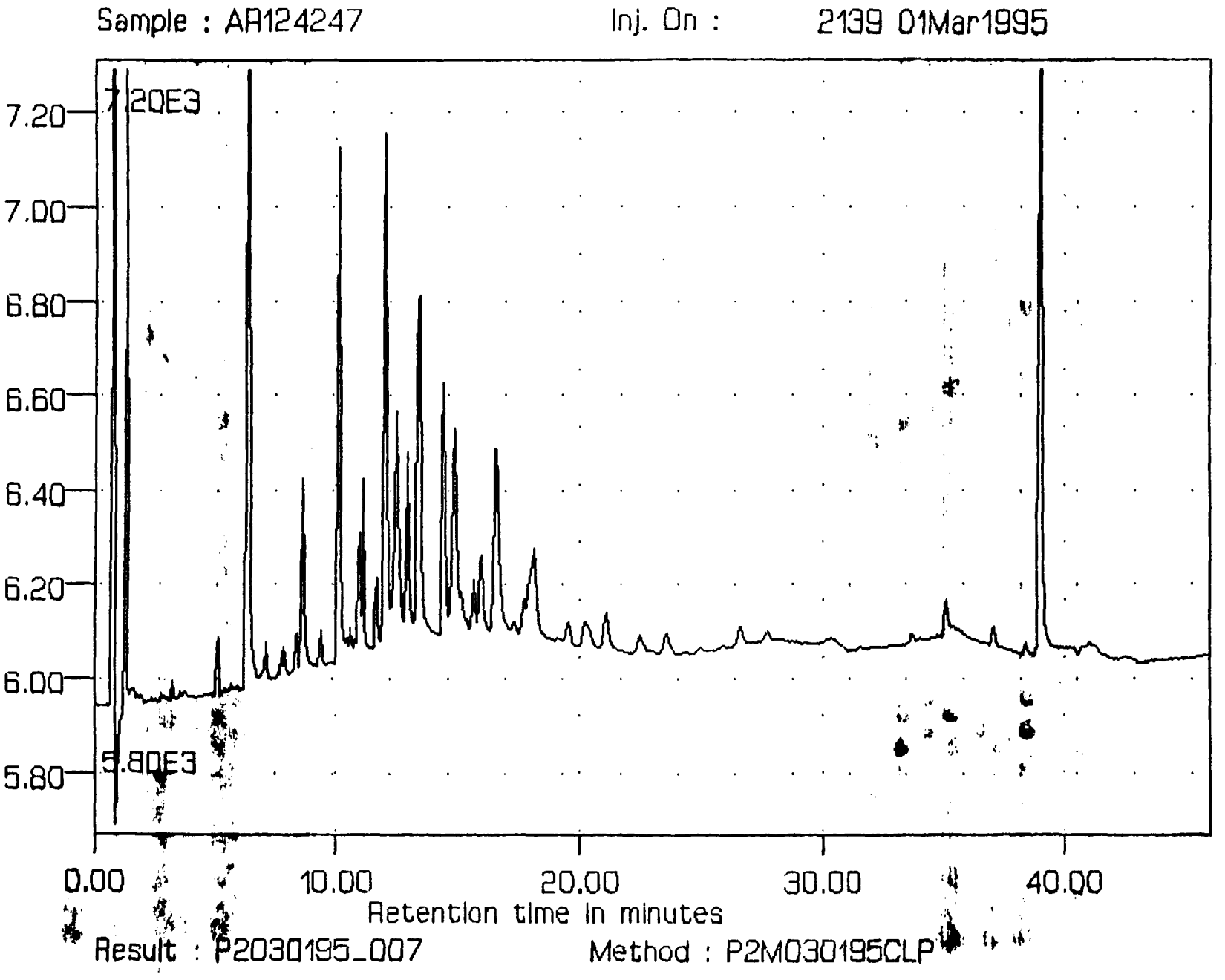
DD
3/7/95

IEA Pesticide Standard Report

2 2 0761

Sample Name : AR124247 Inj on 2139 01Mar1995
Result File : /RESULT/P2030195_007.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : AR124247
Inj. On : 2139 01Mar1995
7.20E3
5.80E3
7.20
7.00
6.80
6.60
6.40
6.20
6.00
5.80
Amplitude / 10E3
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P2030195_007
Method : P2M030195CLP

IEA Pesticide Standard Report 2 2 0763

Sample Name : AR124247 Report No : 28.01
Result File : /RESULT/P2030195_007.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 2139 01Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 2/ 4 Bottle no. : 4

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.080	94644	BB	.21987	Tetrachloro-m-xylene
2	8.53		.110	10328	BB	0.00000	
3	10.05		.104	26788	BB	0.00000	
4	10.84		.104	6039	BV	0.00000	
5	11.01		.109	9296	VB	0.00000	
6	11.59		.120	4048	BB	0.00000	
7	11.94		.139	35766	BV	0.00000	
8	12.46		.193	22125	VV	0.00000	
9	12.89		.134	12521	VV	0.00000	
10	13.40		.201	34285	VB	0.00000	
11	14.41		.142	17497	BV	0.00000	
12	14.84		.160	14561	PV	0.00000	
13	15.92		.159	5867	VB	0.00000	
14	16.53		.297	27162	BB	0.00000	
15	18.05		.394	17308	BB	0.00000	
16	38.98	#38.97	.137	135718	BB	.21700	Decachlorobiphenyl

Total Area : 473952 Total PPB : .437

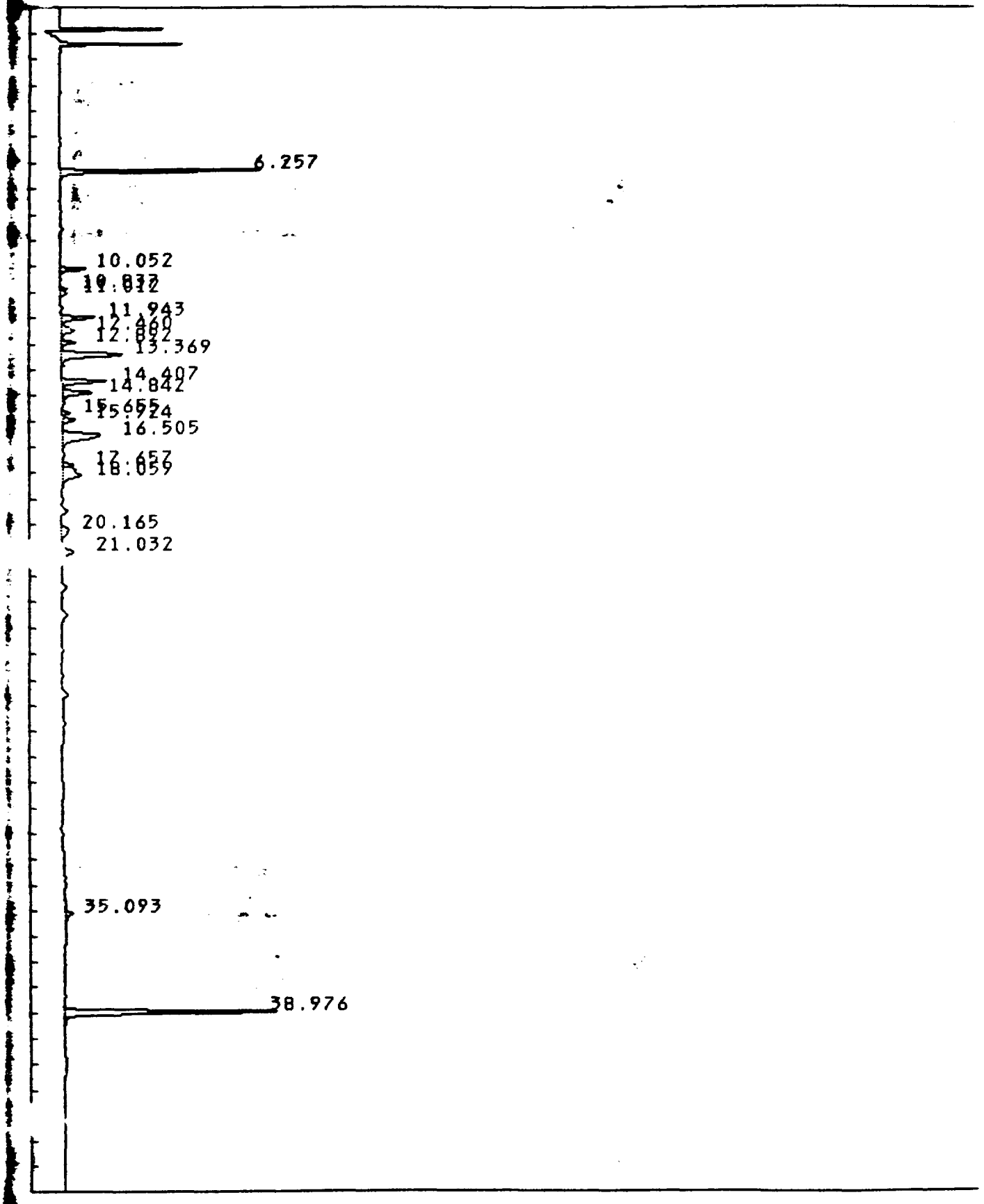
Report Time : 1335 03Mar1995
Method : /METHOD/P2M030195CLP.MTH
Result File : /RESULT/P2030195_007.RES

DD
3/7/95

IEA Pesticide Standard Report

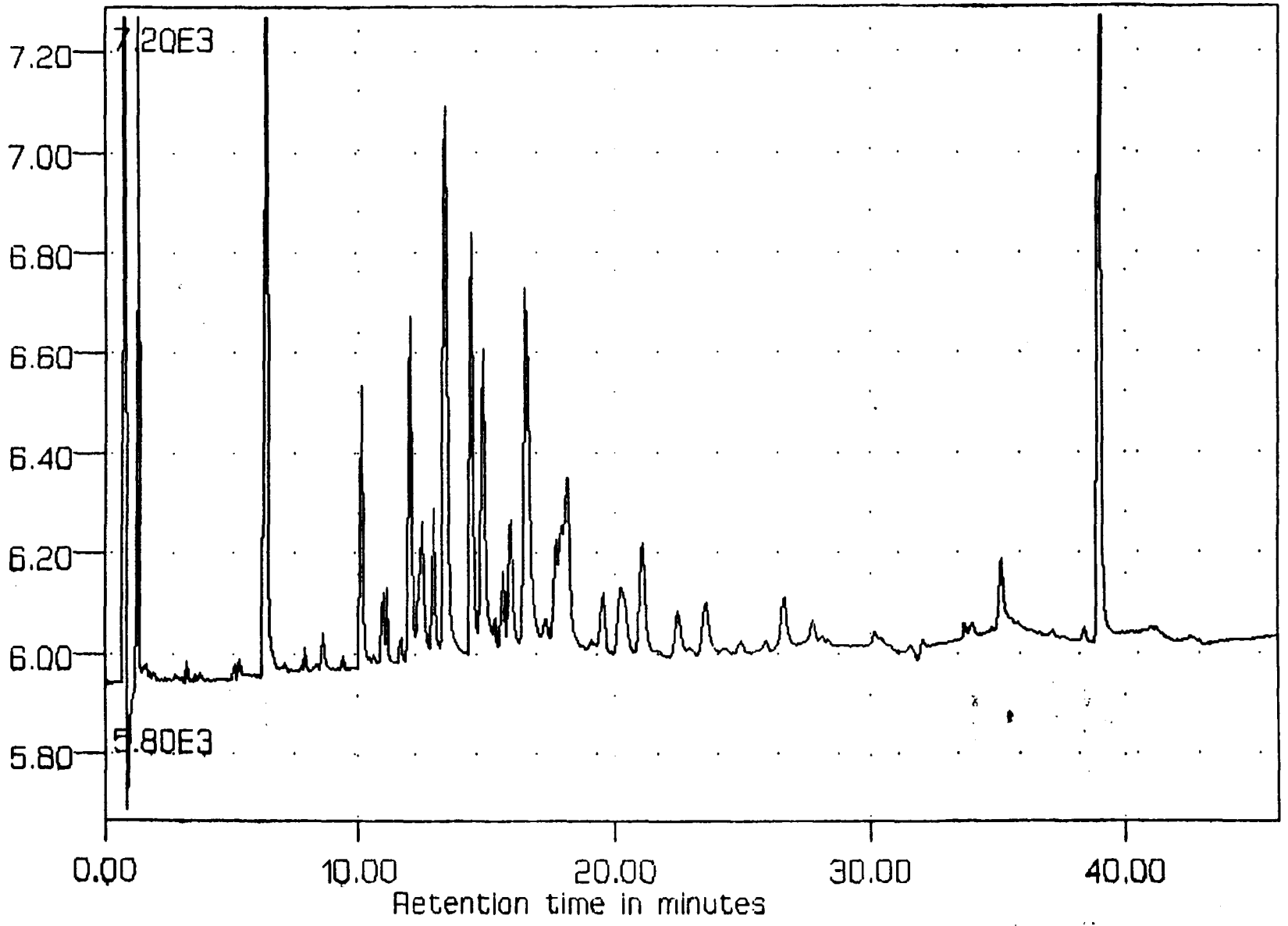
2 2 0764

Sample Name : AR124847 Inj on 2234 01Mar1995
Result File : /RESULT/P2030195_008.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



2 2 0765

Sample : AR124847 Inj. On : 2234 01Mar1995



Result : P2030195_008 Method : P2M030195CLP

EA Pesticide Standard Report

2 2 0766

Sample Name : AR124847 Report No : 29.01
Result File : /RESULT/P2030195_008.RES
lumn Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
nstrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 2234 01Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 2/ 5 Bottle no. : 5

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.080	93447	BB	.21709	Tetrachloro-m-xylene
2	10.05		.105	14063	BB	0.00000	
3	10.84		.097	3148	BV	0.00000	
4	11.01		.106	3636	VB	0.00000	
5	11.94		.136	22289	BV	0.00000	
6	12.46		.193	12022	VB	0.00000	
7	12.89		.111	7351	BB	0.00000	
8	13.37		.195	50374	BB	0.00000	
9	14.41		.144	28592	BV	0.00000	
10	14.84		.163	22743	VV	0.00000	
11	15.65		.130	4651	BV	0.00000	
2	15.92		.170	10122	VB	0.00000	
3	16.51		.286	48329	BV	0.00000	
14	17.66		.152	7217	BV	0.00000	
15	18.06		.343	26503	VB	0.00000	
16	20.17		.339	10598	BB	0.00000	
17	21.03		.228	12020	BB	0.00000	
18	35.09		.170	5363	BB	0.00000	
19	38.98	#38.97	.136	135305	BB	.21634	Decachlorobiphenyl

Total Area : 517774 Total PPB : .433

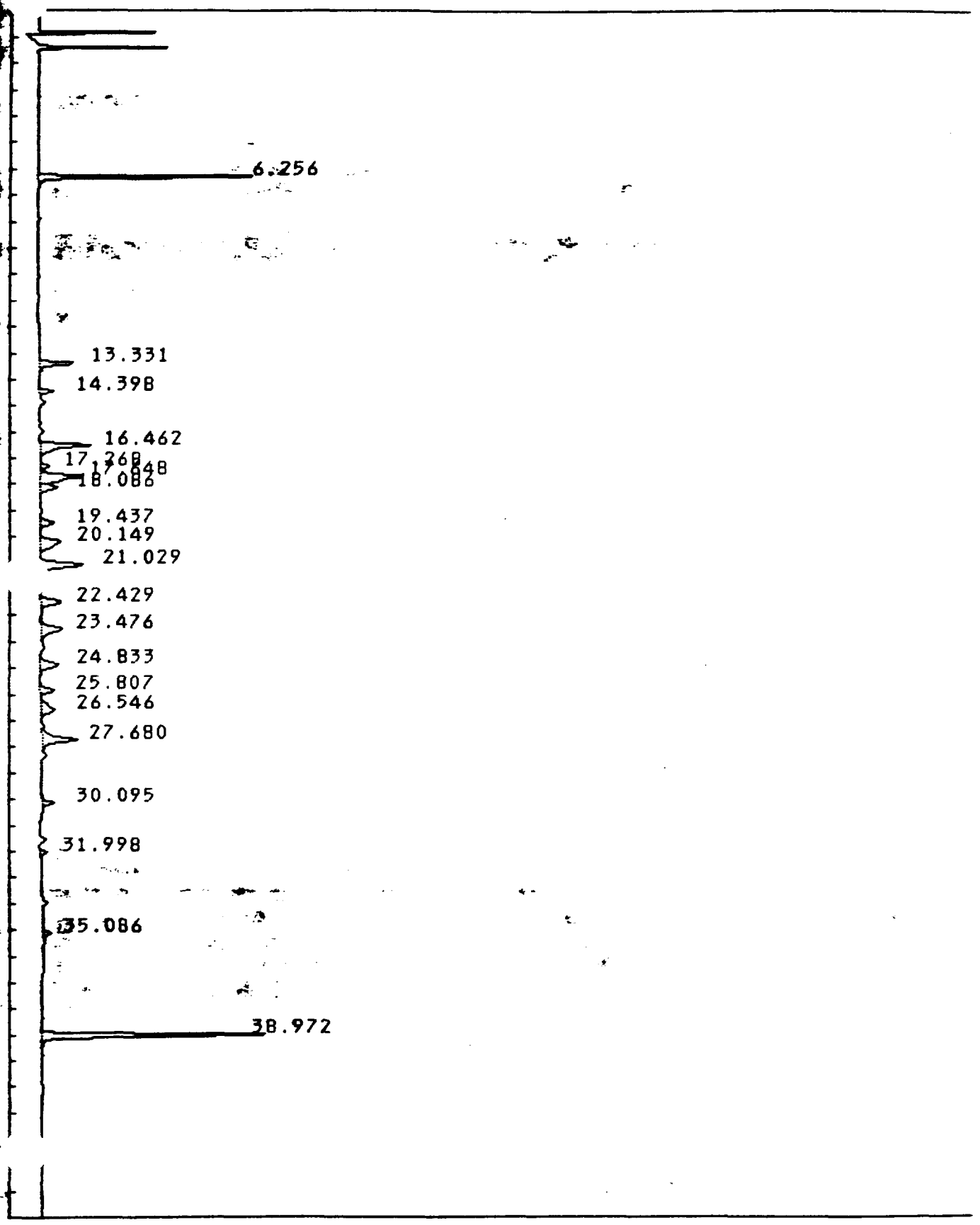
Report Time : 1341 03Mar1995
Method : /METHOD/P2M030195CLP.MTH
Result File : /RESULT/P2030195_008.RES

DD
3/7/95

IEA Pesticide Standard Report

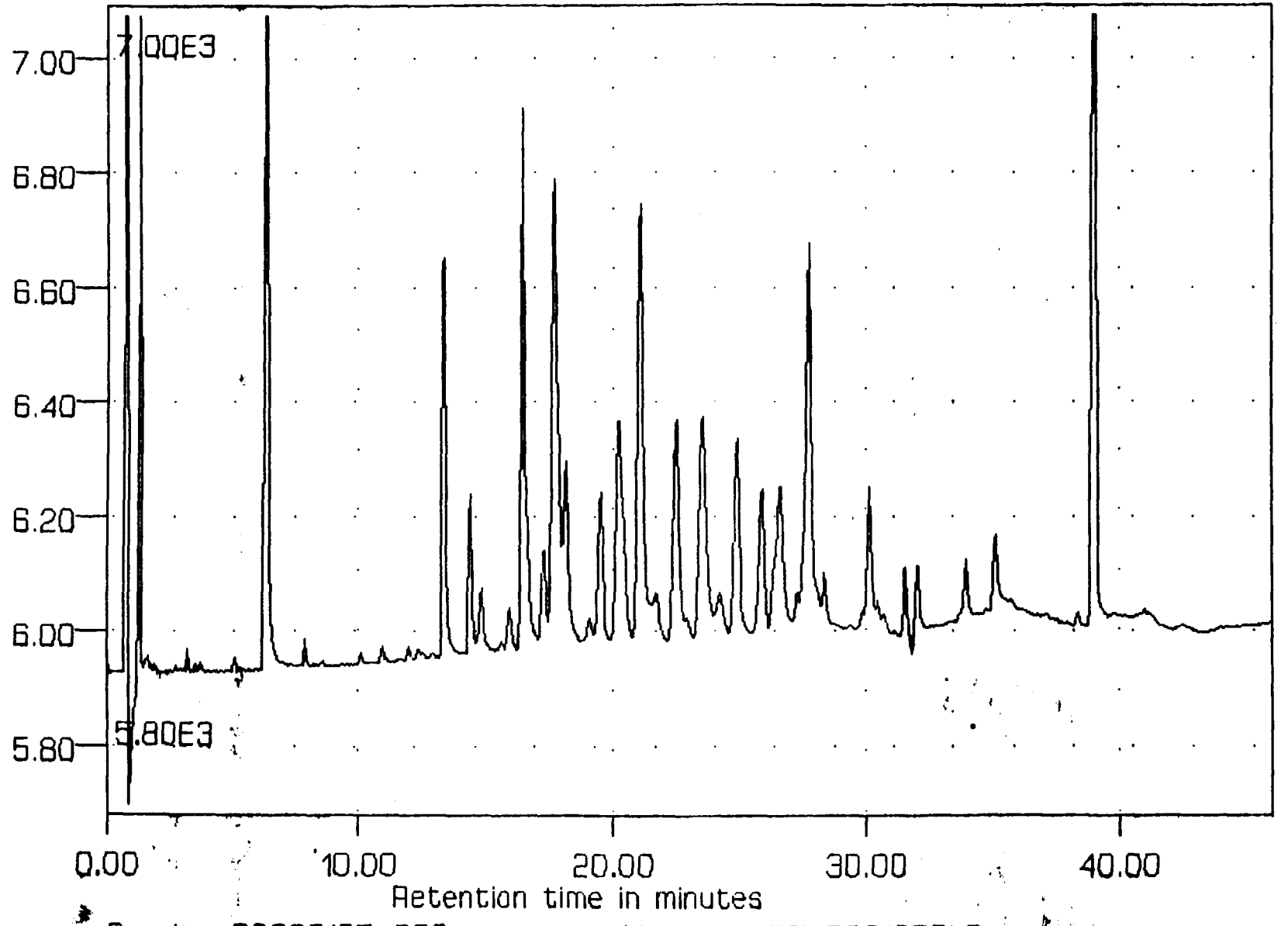
2 2 0767

Sample Name : AR125447 Inj on 2328 01Mar1995
Result File : /RESULT/P2030195_009.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



2 2 0763

Sample : AR125447 Inj. On : 2328 01Mar1995



Result : P2030195_009 Method : P2M030195CLP

IEA Pesticide Standard Report

2 2 0769

Sample Name : AR125447 Report No : 30.01
Result File : /RESULT/P2030195_009.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
strument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 2328 01Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 2/ 6 Bottle no. : 6

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.080	94922	BB	.22052	Tetrachloro-m-xylene
2	13.33		.135	22286	BB	0.00000	
3	14.40		.127	8234	BB	0.00000	
4	16.46		.204	45829	BB	0.00000	
5	17.27		.154	5370	BV	0.00000	
6	17.65		.244	46451	VV	0.00000	
7	18.09		.196	14150	VB	0.00000	
8	19.44		.207	12535	BB	0.00000	
9	20.15		.313	28430	BV	0.00000	
10	21.03		.225	39419	PB	0.00000	
11	22.43		.236	20711	BB	0.00000	
12	23.48		.273	23565	BV	0.00000	
3	24.83		.247	20101	PB	0.00000	
4	25.81		.214	12581	BV	0.00000	
15	26.55		.329	18958	VV	0.00000	
16	27.68		.252	38862	VV	0.00000	
17	30.10		.166	8740	BV	0.00000	
18	32.00		.187	5956	PB	0.00000	
19	35.09		.168	4827	BB	0.00000	
20	38.97	#38.97	.137	136429	BB	.21814	Decachlorobiphenyl

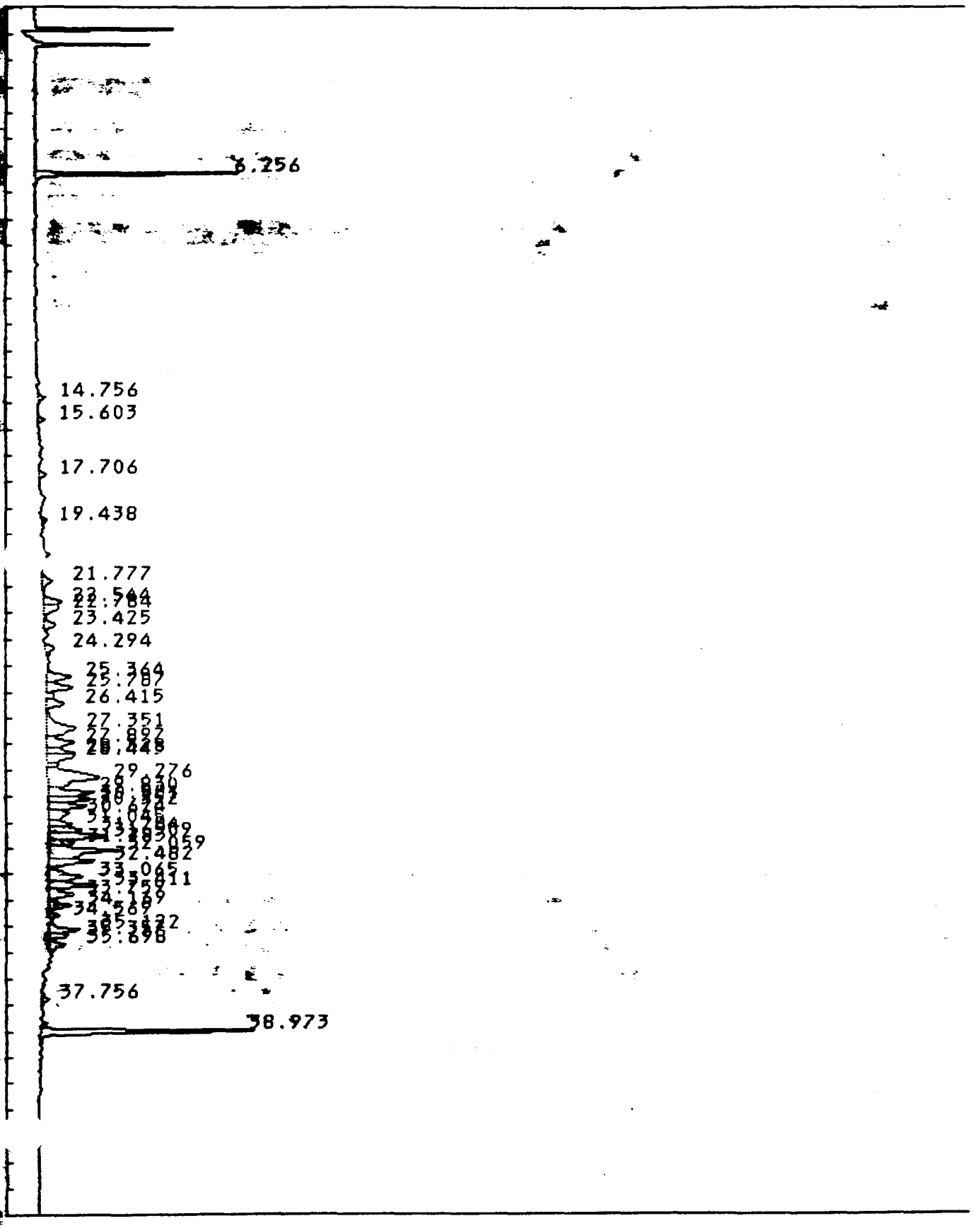
Total Area : 608357 Total PPB : .439

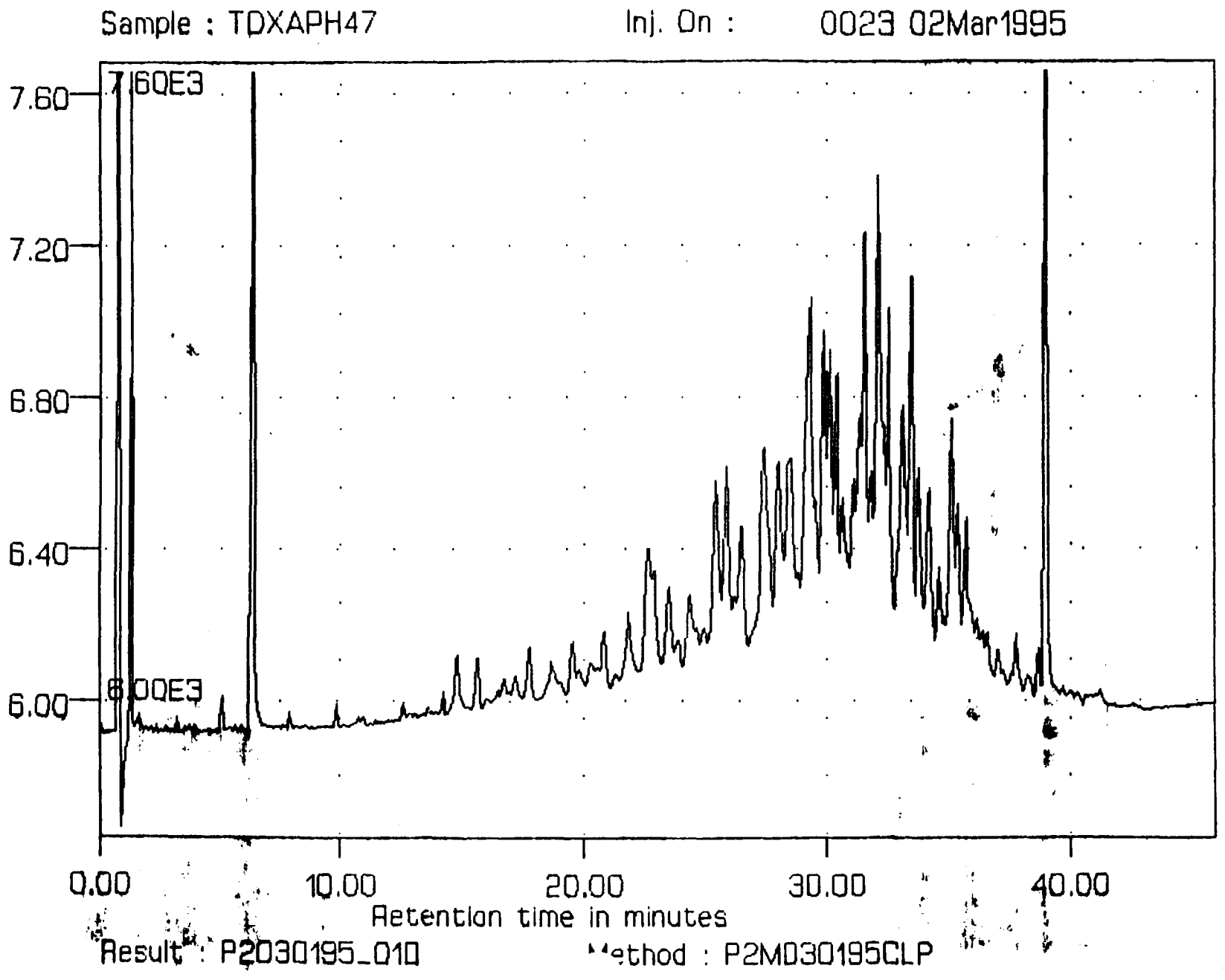
Report Time : 1347 03Mar1995
Method : /METHOD/P2M030195CLP.MTH
Result File : /RESULT/P2030195_009.RES

DD 3/7/95

IEA Pesticide Standard Report

Sample Name = TOXAPH47 Inj on 0023 02Mar1995
Result File = /RESULT/P2030195_010.RES INSTRUMENT = HP5890P2
lumn Type = DB-1701 30-Meter,0.53mm ID Inj. Vol. = 1 ul




Sample : TDXAPH47
Inj. On : 0023 02Mar1995
7.60E3
6.00E3
7.60
7.20
6.80
6.40
6.00
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P2030195_010
Method : P2M030195CLP

IEA Pesticide Standard Report 2 2 0772

Sample Name : TDXAPH47 Report No : 31.01
Result File : /RESULT/P2030195_010.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0023 02Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 2/ 7 Bottle no. : 7

% Dil-Fact
: 100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.080	91201	BB	.21187	Tetrachloro-m-xylene
2	14.76		.138	4274	BB	0.00000	
3	15.60		.146	4567	BB	0.00000	
4	17.71		.183	5891	BB	0.00000	
5	19.44		.158	4213	BV	0.00000	
6	21.78		.304	12336	BV	0.00000	
7	22.54		.263	20093	VV	0.00000	
8	22.78		.240	14480	VB	0.00000	
9	23.42		.228	11087	BV	0.00000	
10	24.29		.275	10872	PB	0.00000	
11	25.36		.252	25974	VV	0.00000	
2	25.79		.223	25043	VV	0.00000	
13	26.41		.236	17656	VV	0.00000	
14	27.35		.406	50741	PV	0.00000	
15	27.90		.280	32345	VV	0.00000	
16	28.33		.174	19842	VV	0.00000	
17	28.44		.228	26865	VV	0.00000	
18	29.28		.432	94589	VV	0.00000	
19	29.83		.209	41283	VV	0.00000	
20	30.08		.195	36234	VV	0.00000	
21	30.35		.200	33919	VV	0.00000	
22	30.62		.276	25188	VV	0.00000	
23	31.05		.192	19806	VV	0.00000	
24	31.28		.194	27838	VV	0.00000	
25	31.51		.210	54126	VV	0.00000	
26	31.78		.187	20102	VV	0.00000	
27	32.06		.263	77085	VV	0.00000	
28	32.48		.202	42143	VV	0.00000	
29	33.07		.294	43528	VV	0.00000	
30	33.41		.160	36632	VV	0.00000	
31	33.76		.228	24802	VV	0.00000	
32	34.17		.197	18722	VV	0.00000	
33	34.57		.155	6909	PV	0.00000	
34	35.12		.179	24482	VV	0.00000	
35	35.36		.161	13385	VV	0.00000	
36	35.70		.210	15590	VV	0.00000	
37	37.76		.209	7145	PV	0.00000	

DD
3/7/95

IEA Pesticide Standard Report

2 2 0773

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
38	38.97	#38.97	.135	131022	VV	.20949	Decachlorobiphenyl

Total Area : 1172009 Total PPB : .421

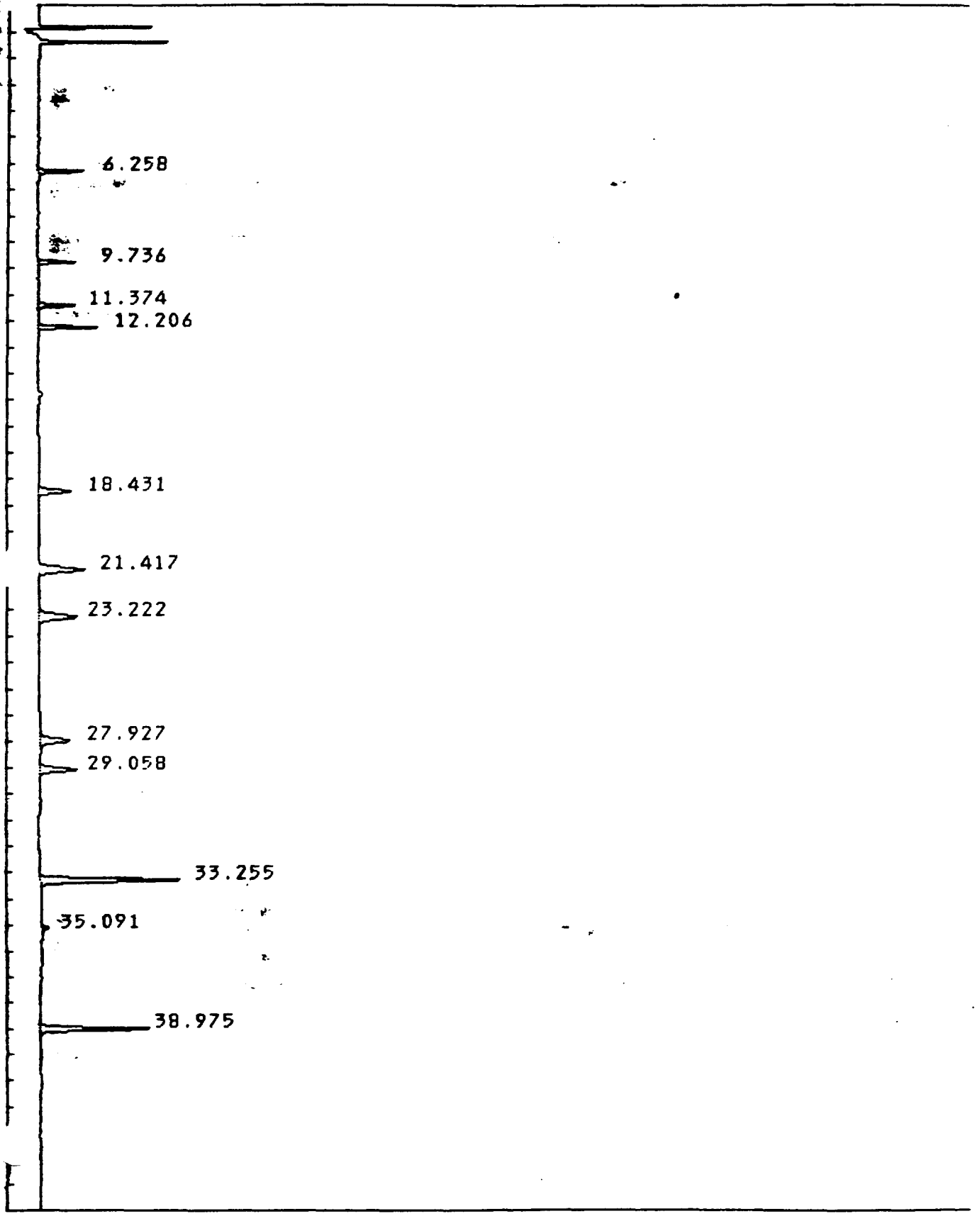
Report Time : 1352 03Mar1995
Method : /METHOD/P2M030195CLP.MTH
Result File : /RESULT/P2030195_010.RES

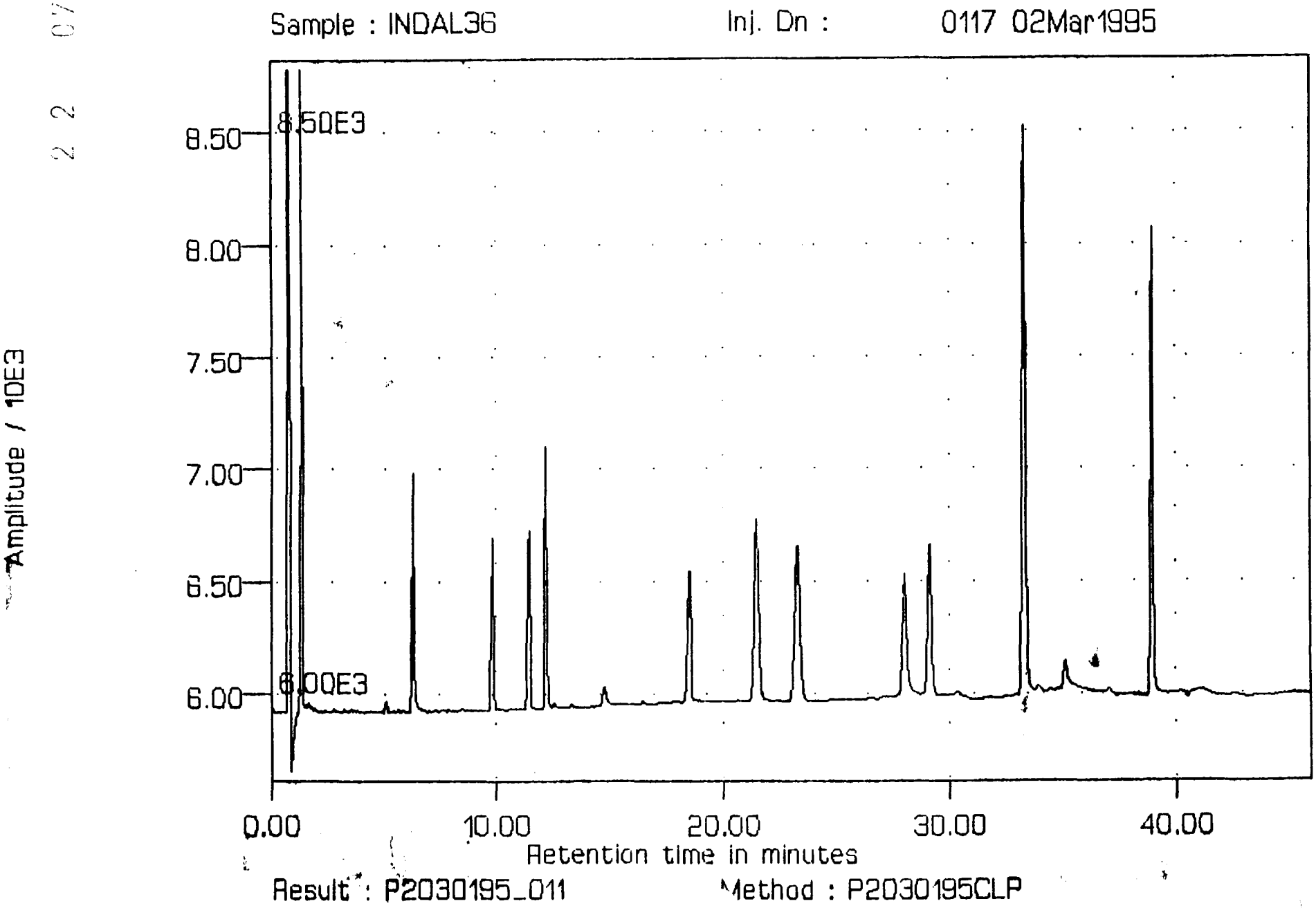
DD
3/2/95

IEA Pesticide Standard Report

2 2 0774

Sample Name : INDAL36 Inj on 0117 02Mar1995
Result File : /RESULT/P2030195_011.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : INDAL36
Inj. Dn : 0117 02Mar1995
8.50E3
6.00E3
8.50
8.00
7.50
7.00
6.50
6.00
Amplitude / 10E3
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P2030195_011
Method : P2030195CLP

IEA Pesticide Standard Report

2 2 0776

Sample Name : INDAL36 Report No : 32.01
Result File : /RESULT/P2030195_011.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0117 02Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 1 Bottle no. : 1

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.084	21357	BB	.04961	Tetrachloro-m-xylene
2	9.74	9.74	.091	16799	BB	.05057	alpha-BHC
3	11.37	11.37	.095	17927	BB	.04948	gamma-BHC (Lindane)
4	12.21	12.21	.101	28174	BB	.05529	Heptachlor
5	18.43	18.43	.172	23986	BB	.05481	Endosulfan I
6	21.42	21.41	.216	41760	BB	.11022	Dieldrin
7	23.22	23.22	.242	39975	BB	.10881	Endrin
8	27.93	27.92	.205	26411	BB	.10078	4,4'-DDD
9	29.06	29.06	.182	29004	BB	.10305	4,4'-DDT
10	33.26	33.25	.148	89294	BB	.51582	Methoxychlor
11	35.09		.158	4425	BB	0.00000	
12	38.97	#38.97	.136	67719	BB	.10828	Decachlorobiphenyl

Total Area : 406829 Total PPB : 1.307

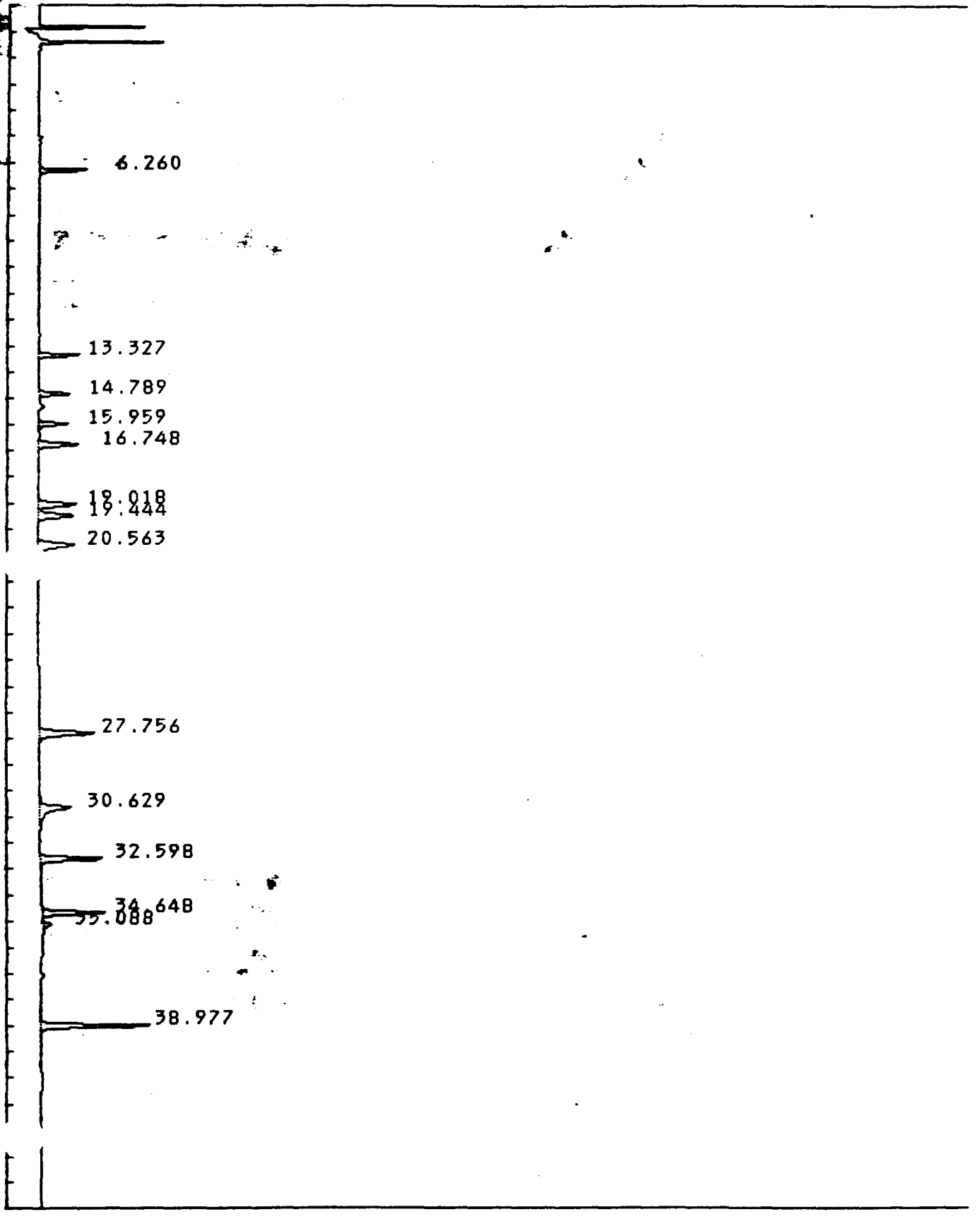
Report Time : 1357 03Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_011.RES

DD
3/7/95

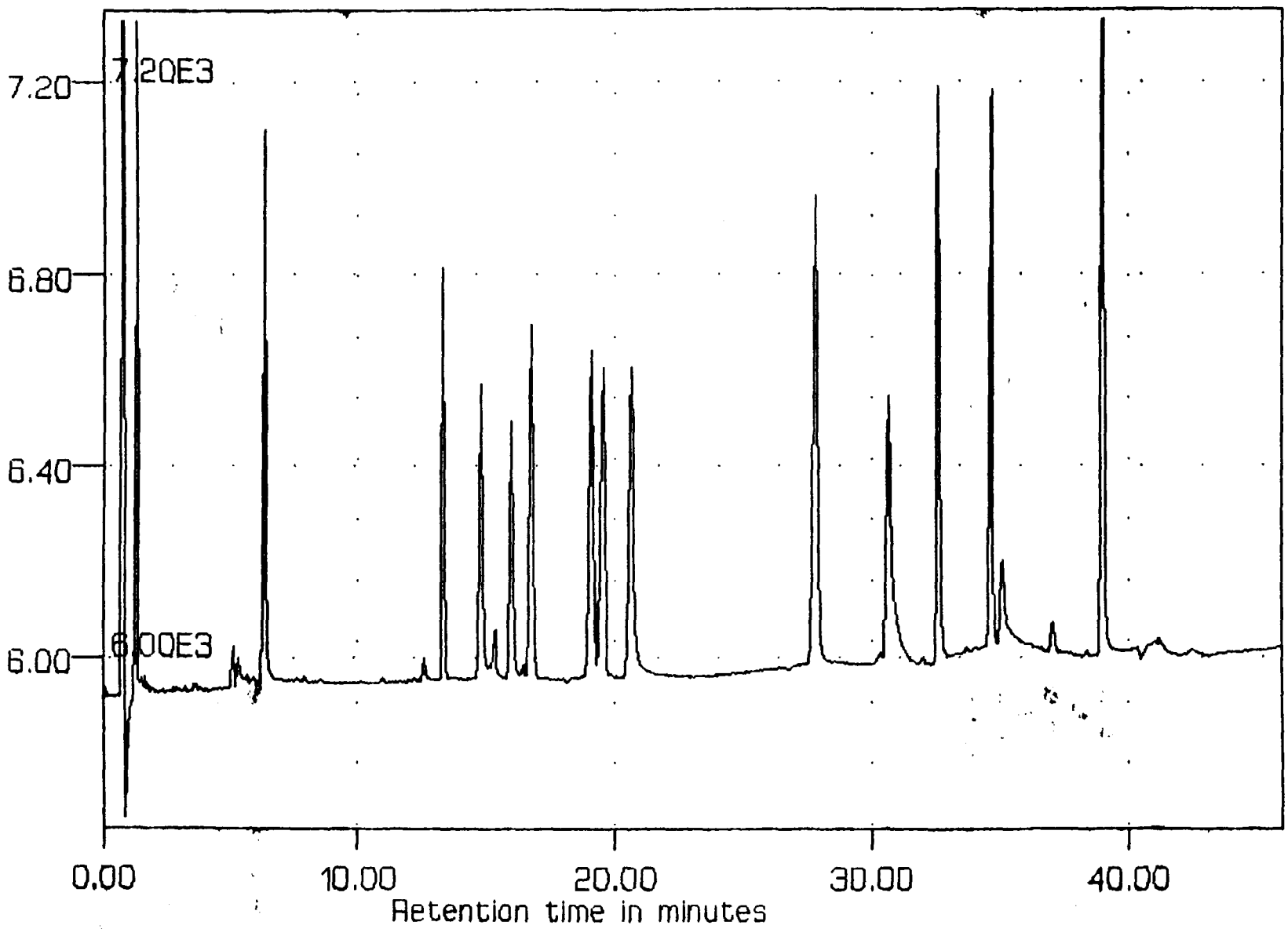
IEA Pesticide Standard Report

2 2 0777

Sample Name : INDBL36 Inj on 0211 02Mar1995
Result File : /RESULT/P2030195_012.RES INSTRUMENT : HP5890P2
lumn Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



Sample : INDBL36 Inj. On : 0211 02Mar1995



Result : P2030195_012 Method : P2030195CLP

IEA Pesticide Standard Report

2 2 0770

Sample Name : INDBL36 Report No : 33.01
Result File : /RESULT/P2030195_012.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0211 02Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 2 Bottle no. : 2

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.085	23621	BB	.05488	Tetrachloro-m-xylene
2	13.33	13.33	.101	20806	BB	.05322	Aldrin
3	14.79	14.79	.122	17705	BB	.06301	beta-BHC
4	15.96	15.96	.132	16770	BB	.05075	delta-BHC
5	16.75	16.75	.145	25631	BB	.05444	Heptachlor epoxide
6	19.02	19.02	.181	29398	BV	.05432	gamma-Chlordane
7	19.44	19.44	.186	28630	VB	.05384	alpha-Chlordane
8	20.56	20.56	.229	34994	BB	.10347	4,4'-DDE
9	27.76	27.75	.184	42935	BB	.10967	Endosulfan II
10	30.63	30.63	.257	34225	BB	.10168	Endrin aldehyde
11	32.60	32.60	.148	42570	BB	.10764	Endosulfan sulfate
2	34.65	34.65	.137	38048	BV	.10249	Endrin ketone
13	35.09		.159	6162	PB	0.00000	
14	38.98	#38.97	.136	68672	BB	.10980	Decachlorobiphenyl

Total Area : 430168 Total PPB : 1.019

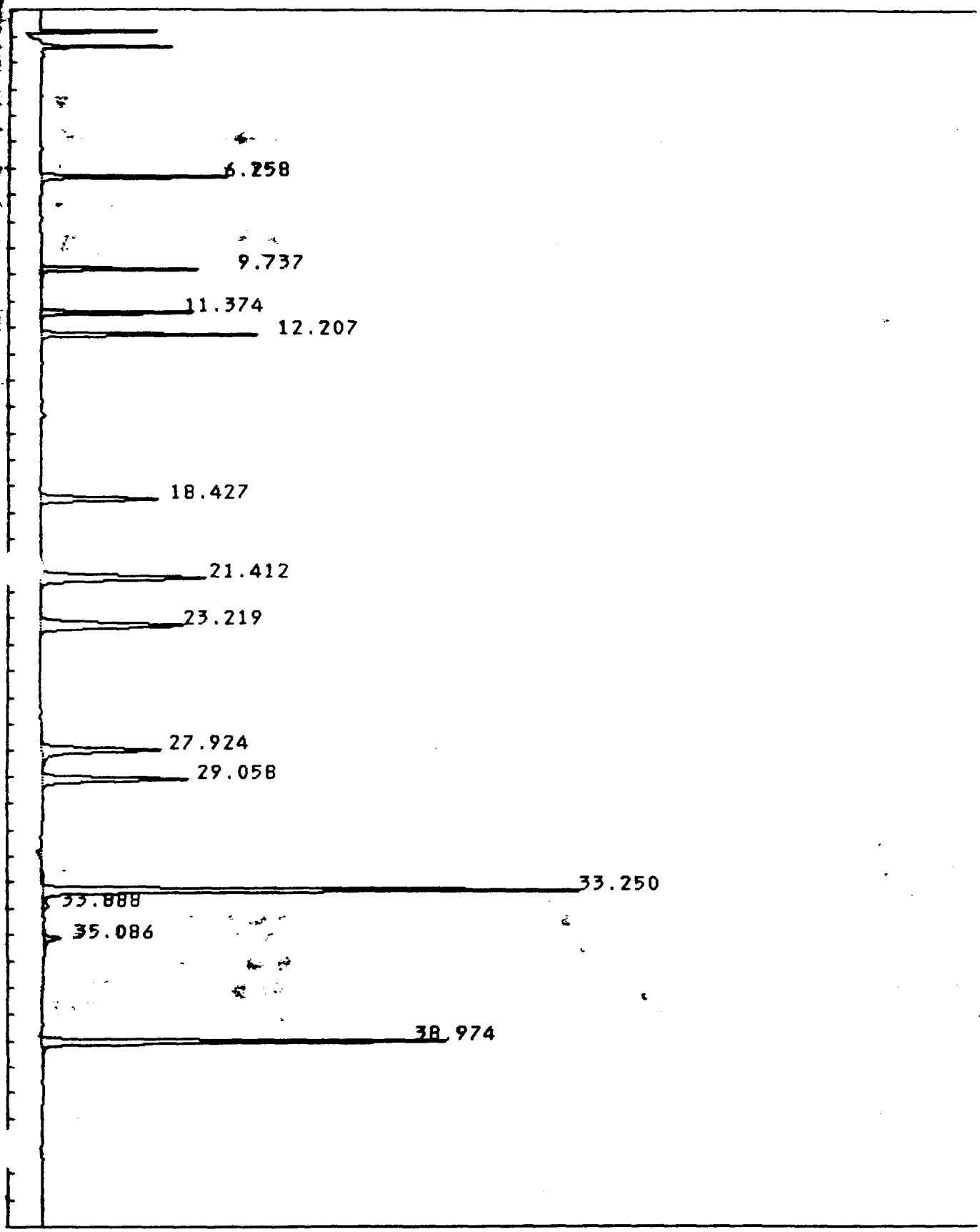
Report Time : 1403 03Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_012.RES

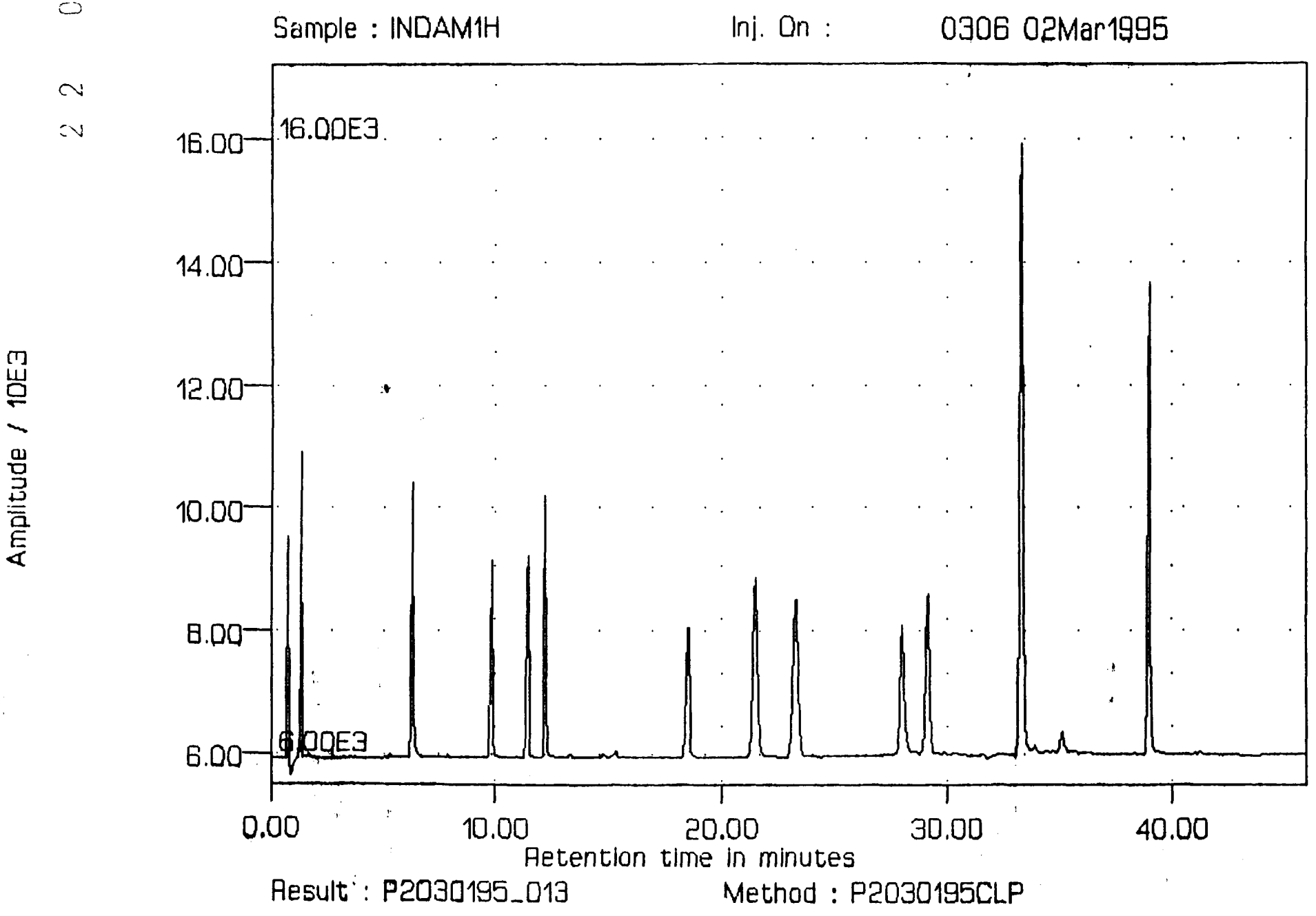
DD
3/7/95

IEA Pesticide Standard Report

2 2 0780

Sample Name : INDAM1H Inj on 0306 02Mar1995
Result File : /RESULT/P2030195_013.RES INSTRUMENT : HP5890P2
lumn Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : INDAM1H
Inj. On : 0306 02Mar1995
16.00E3
6.00E3
16.00
14.00
12.00
10.00
8.00
6.00
Amplitude / 10E3
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P2030195_013
Method : P2030195CLP

IEA Pesticide Standard Report

2 2 0782

Sample Name : INDAM1H
Report No : 34.01
Result File : /RESULT/P2030195_013.RES
Column Type : DB-1701 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0306 02Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 3 Bottle no. : 3

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.080	86091	BB	.20000	Tetrachloro-m-xylene
2	9.74	9.74	.087	66442	BB	.20000	alpha-BHC
3	11.37	11.37	.092	72466	BB	.20000	gamma-BHC (Lindane)
4	12.21	12.21	.100	101912	BB	.20000	Heptachlor
5	18.43	18.43	.174	87525	BB	.20000	Endosulfan I
6	21.41	21.41	.217	151551	BB	.40000	Dieldrin
7	23.22	23.22	.241	146953	BB	.40000	Endrin
8	27.92	27.92	.208	104829	BB	.40000	4,4'-DDD
9	29.06	29.06	.182	112578	BB	.40000	4,4'-DDT
10	33.25	33.25	.145	346217	BV	2.00000	Methoxychlor
11	33.89		.179	4983	VB	0.00000	
12	35.09		.178	13978	BB	0.00000	
13	38.97	#38.97	.136	250173	BB	.40000	Decachlorobiphenyl

Total Area : 1545697 Total PPB : 5.000

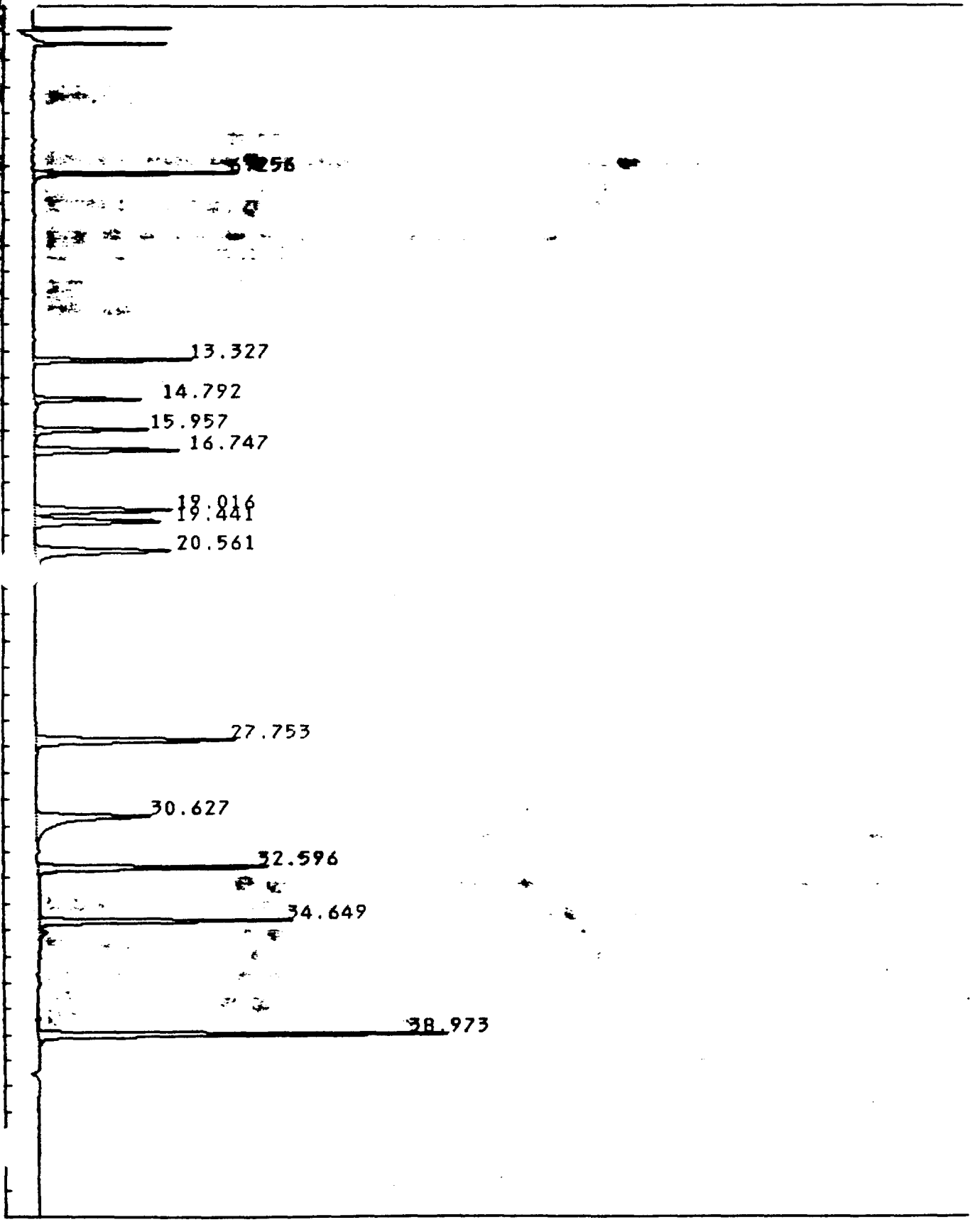
Report Time : 1406 03Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_013.RES

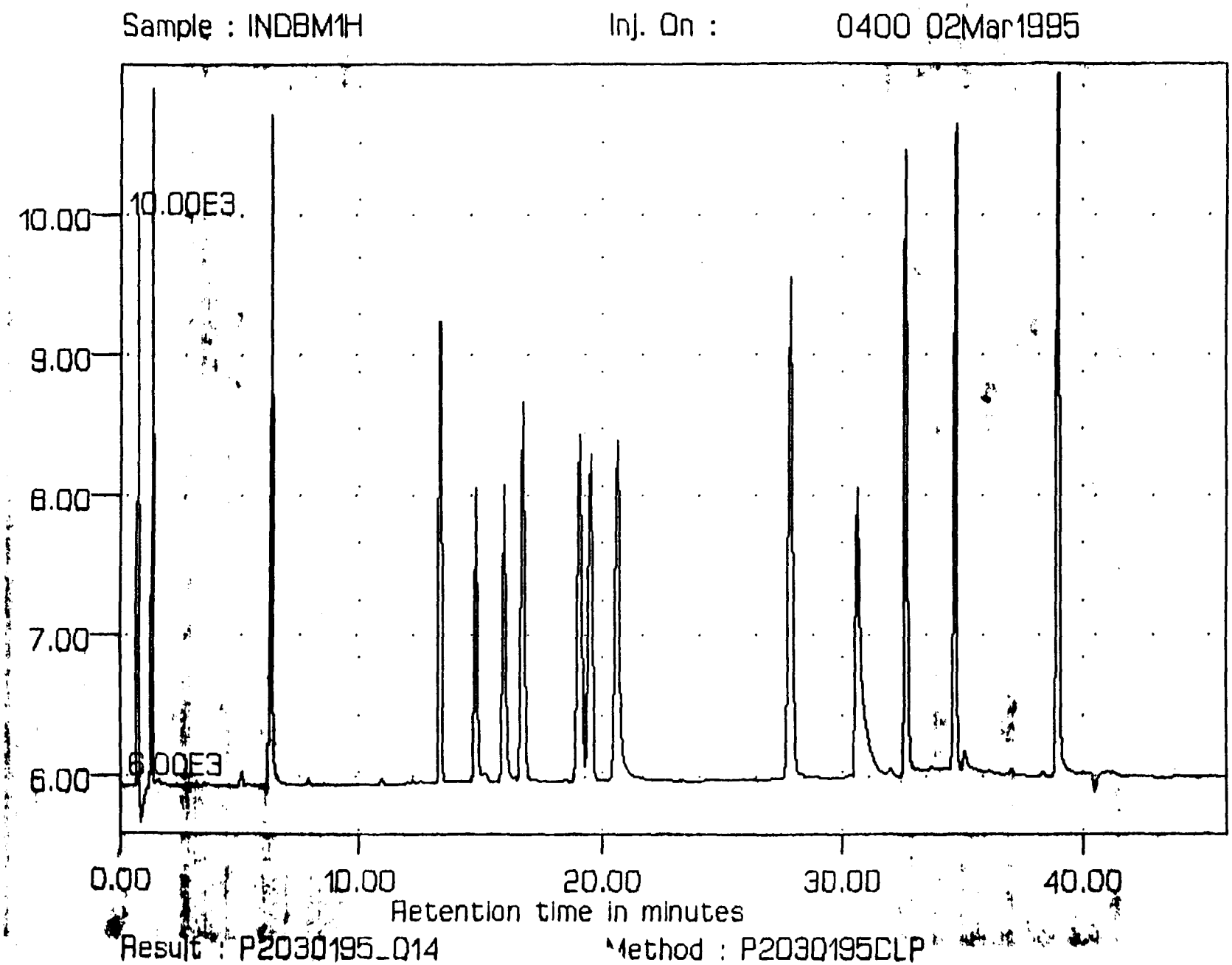
DD
3/7/95

IEA Pesticide Standard Report

2 2 0783

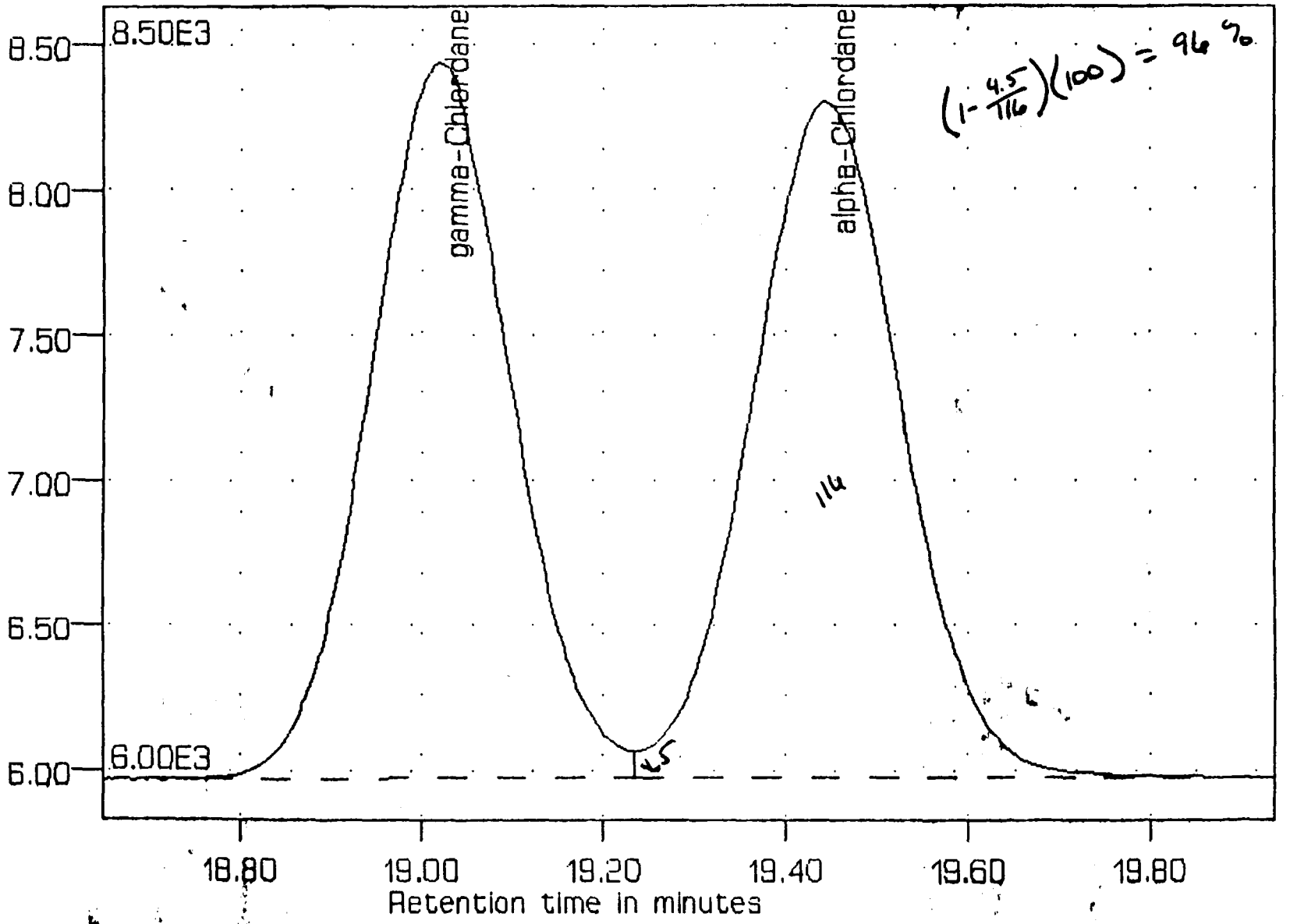
Sample Name : INDBM1H Inj on 0400 02Mar1995
Result File : /RESULT/P2030195_014.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul




Sample : INDBM1H
Inj. On : 0400 02Mar1995
10.00E3
6.00E3
10.00
9.00
8.00
7.00
6.00
0.00
10.00
20.00
30.00
40.00
Retention time in minutes
Result : P2030195_014
Method : P2030195CLP

2 2 0785

Sample : INDBM1H Inj. On : 0400 02Mar1995



Result : P2030195_014 Method : P2030195CLP

IEA Pesticide Standard Report

Sample Name : INDBM1H
Report No : 35.01
Result File : /RESULT/P2030195_014.RES
Column Type : DB-1701 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0400 02Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 4 Bottle no. : 4

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.081	93453	BB	.21710	Tetrachloro-m-xylene
2	13.33	13.33	.099	78192	BB	.20000	Aldrin
3	14.79	14.79	.113	56194	BB	.20000	beta-BHC
4	15.96	15.96	.131	66083	BB	.20000	delta-BHC
5	16.75	16.75	.146	94157	BB	.20000	Heptachlor epoxide
6	19.02	19.02	.183	108248	BV	.20000	gamma-Chlordane
7	19.44	19.44	.190	106353	VB	.20000	alpha-Chlordane
8	20.56	20.56	.234	135280	BB	.40000	4,4'-DDE
9	27.75	27.75	.184	156596	BB	.40000	Endosulfan II
10	30.63	30.63	.274	134635	BV	.40000	Endrin aldehyde
11	32.60	32.60	.148	158190	BB	.40000	Endosulfan sulfate
12	34.65	34.65	.135	148493	BV	.40000	Endrin ketone
13	38.97	#38.97	.138	254777	BB	.40736	Decachlorobiphenyl

Total Area : 1590652 Total PPB : 3.824

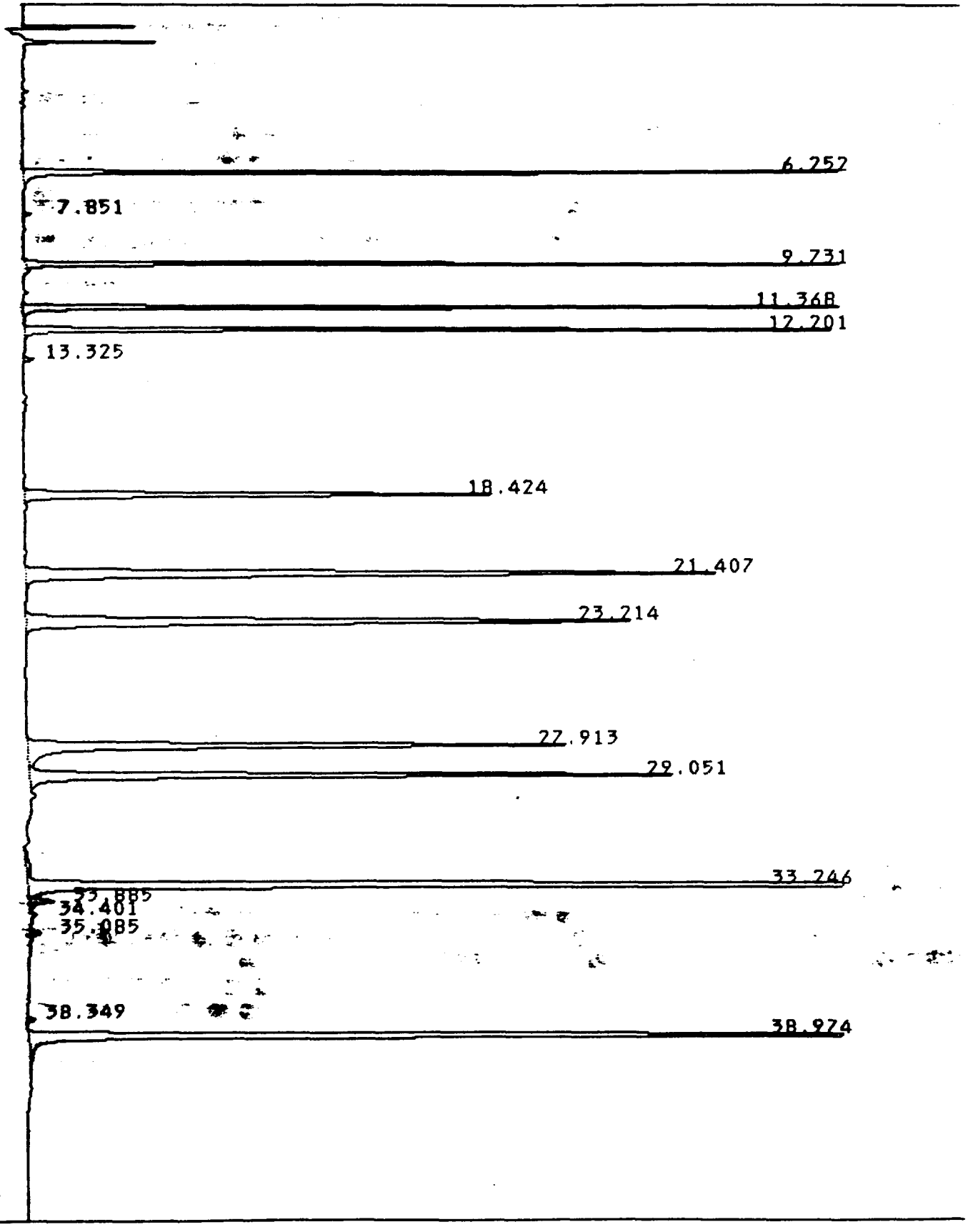
Report Time : 1412 03Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_014.RES

DD
3/7/95

EA Pesticide Standard Report

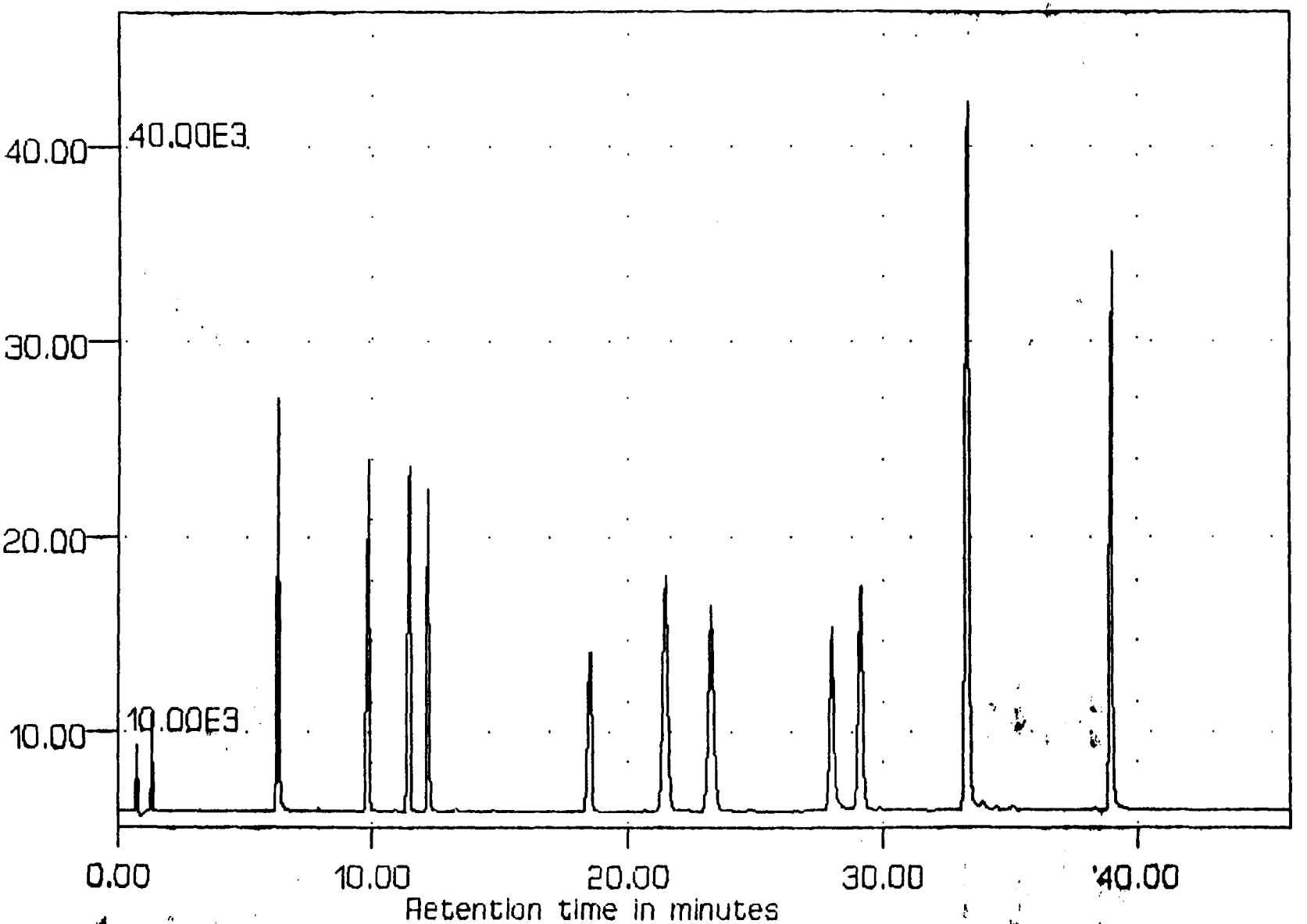
2 2 0787

Sample Name : INDAH36 Inj on 0454 02Mar1995
Result File : /RESULT/P2030195_015.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



2 2 0763

Sample : INDAH36 Inj. On : 0454 02Mar1995



Result : P2030195_015 Method : P2030195CLP

IEA Pesticide Standard Report

2 2 0789

Sample Name : INDAH36 Report No : 36.01
Result File : /RESULT/P2030195_015.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0454 02Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 5 Bottle no. : 5

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.25	6.26	.077	394649	BB	.91682	Tetrachloro-m-xylene
2	7.85		.089	3438	BB	0.00000	
3	9.73	9.74	.077	333387	BV	1.00354	alpha-BHC
4	11.37	11.37	.083	350893	BB	.96843	gamma-BHC (Lindane)
5	12.20	12.21	.098	387946	BB	.76133	Heptachlor
6	13.33	13.33	.101	4471	BB	~~.01144~~	~~Aldrin~~
7	18.42	18.43	.167	328705	BB	.75111	Endosulfan I
8	21.41	21.41	.207	597464	BB	1.57693	Dieldrin
9	23.21	23.22	.230	580719	BB	1.58069	Endrin
10	27.91	27.92	.193	434394	BV	1.65754	4,4'-DDD
11	29.05	29.06	.174	476086	VV	1.69158	4,4'-DDT
2	33.25	33.25	.150	1307330	PV	7.55209	Methoxychlor
13	33.89		.188	20040	VV	0.00000	
14	34.40		.152	3933	VV	0.00000	
15	35.09		.181	8416	BB	0.00000	
16	38.35		.134	4628	BB	0.00000	
17	38.97	#38.97	.139	954787	BB	1.52660	Decachlorobiphenyl

Total Area : 6191285 Total PPB : 19.998

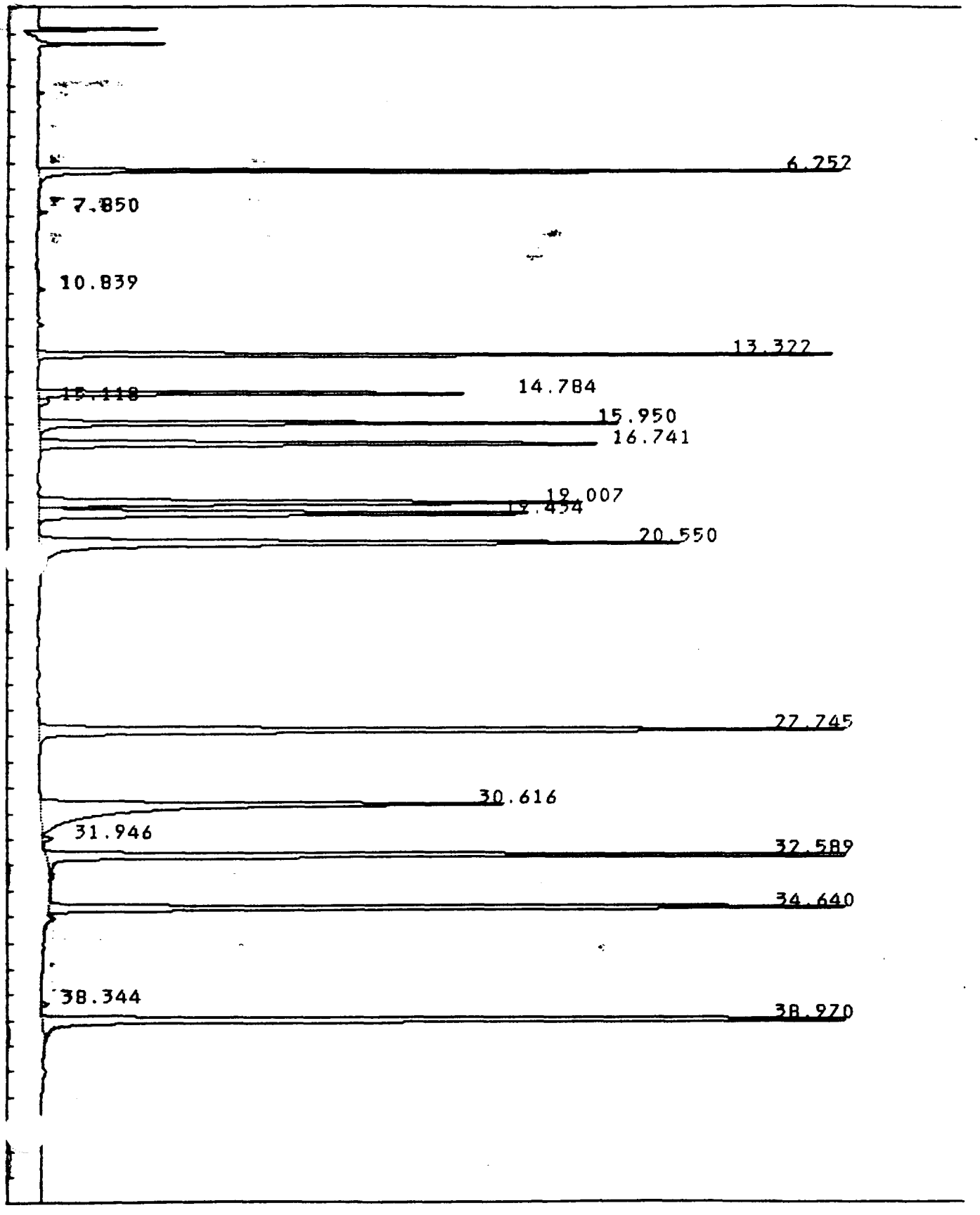
Report Time : 1418 03Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_015.RES

DD
3/7/95

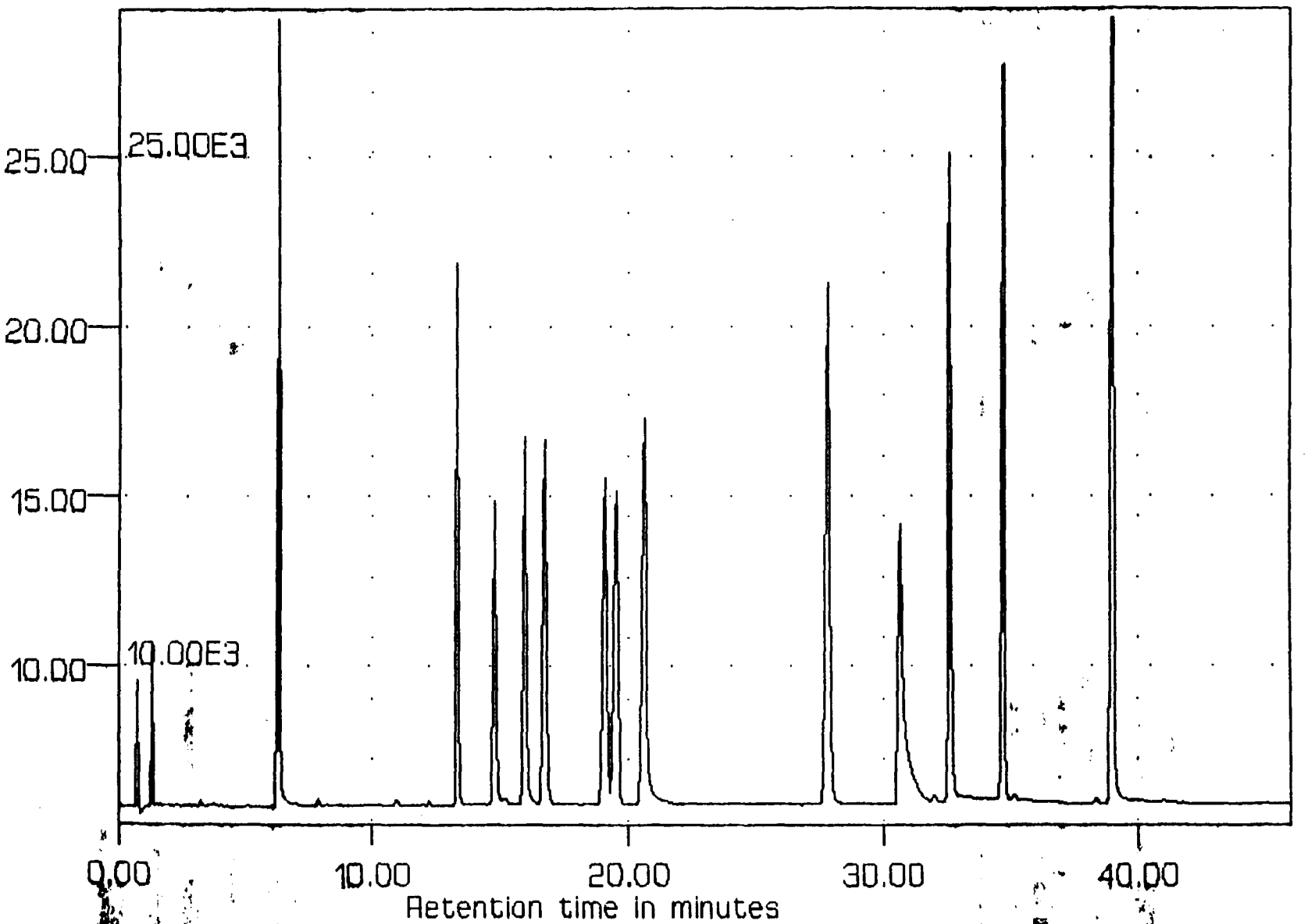
IEA Pesticide Standard Report

2 2 0790

Sample Name : INDBH36 Inj on 0549 02Mar1995
Result File : ./RESULT/P2030195_016.RES INSTRUMENT : HP5890P2
lumn Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



Sample : INDBH36 Inj. On : 0549 02Mar1995



Result : P2030195_016 Method : P2030195CLP

IEA Pesticide Standard Report 2 2 0722

Sample Name : INDBH36 Report No : 37.01
Result File : /RESULT/P2030195_016.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0549 02Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 6 Bottle no. : 6

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.25	6.26	.076	432246	BV	1.00416	Tetrachloro-m-xylene
2	7.85		.089	3724	BB	0.00000	
3	10.84		.102	3616	BB	0.00000	
4	13.32	13.33	.091	348529	BB	.89147	Aldrin
5	14.78	14.79	.108	231446	BV	.82373	beta-BHC
6	15.12		.222	9802	VB	0.00000	
7	15.95	15.96	.119	307293	BB	.93002	delta-BHC
8	16.74	16.75	.141	360485	BV	.76571	Heptachlor epoxide
9	19.01	19.02	.176	406616	BV	.75127	gamma-Chlordane
10	19.43	19.44	.185	408431	VB	.76806	alpha-Chlordane
11	20.55	20.56	.214	582685	BB	1.72290	4,4'-DDE
2	27.74	27.75	.174	638821	BB	1.63177	Endosulfan II
13	30.62	30.63	.268	525666	BV	1.56175	Endrin aldehyde
14	31.95		.145	6399	PB	0.00000	
15	32.59	32.60	.143	653633	BB	1.65278	Endosulfan sulfate
16	34.64	34.65	.127	660182	BV	1.77835	Endrin ketone
17	38.34		.135	4731	BB	0.00000	
18	38.97	#38.97	.140	973539	BB	1.55658	Decachlorobiphenyl

Total Area : 6557848 Total PPB : 15.839

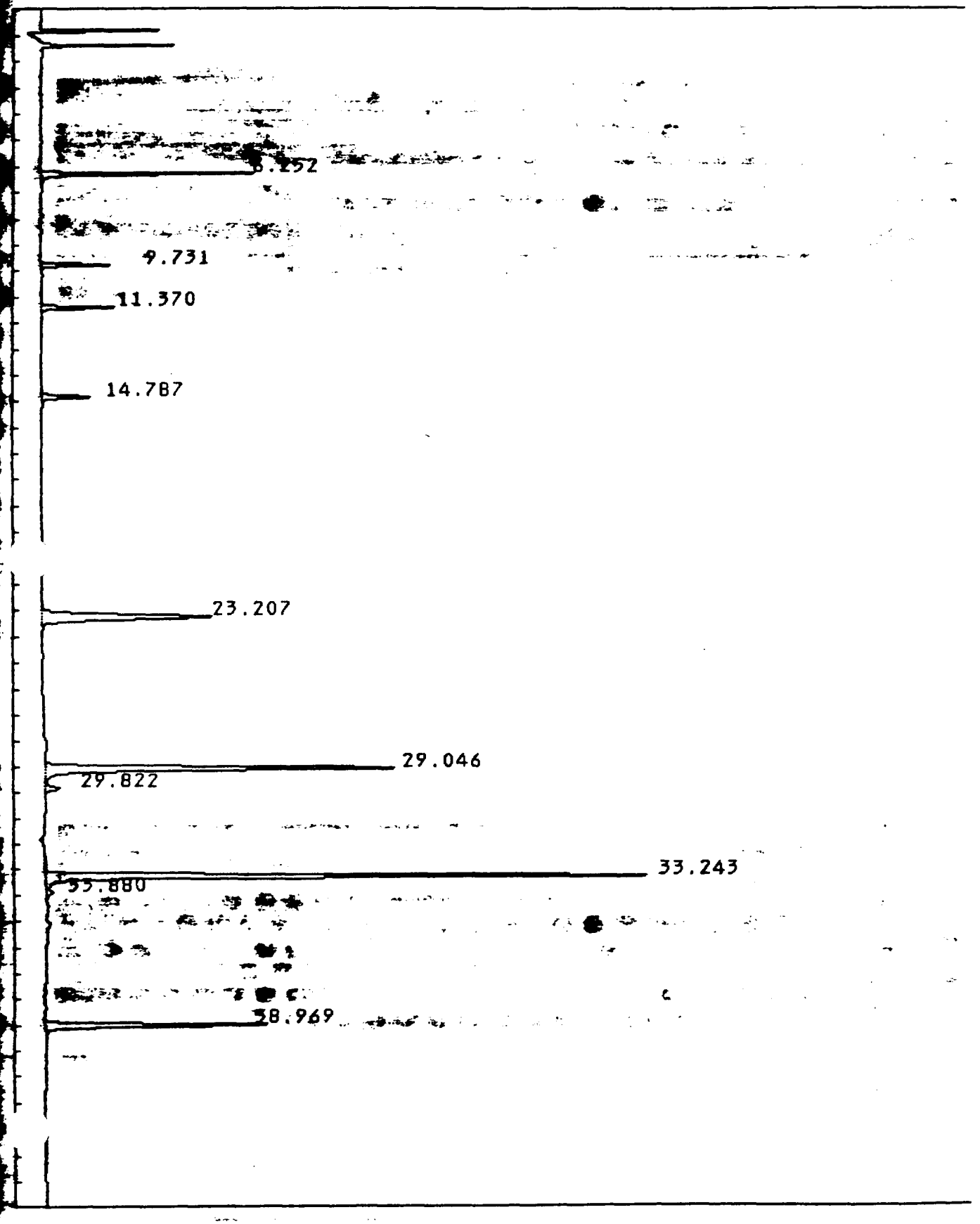
Report Time : 1425 03Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_016.RES

DD
3/7/95

EA Pesticide Standard Report

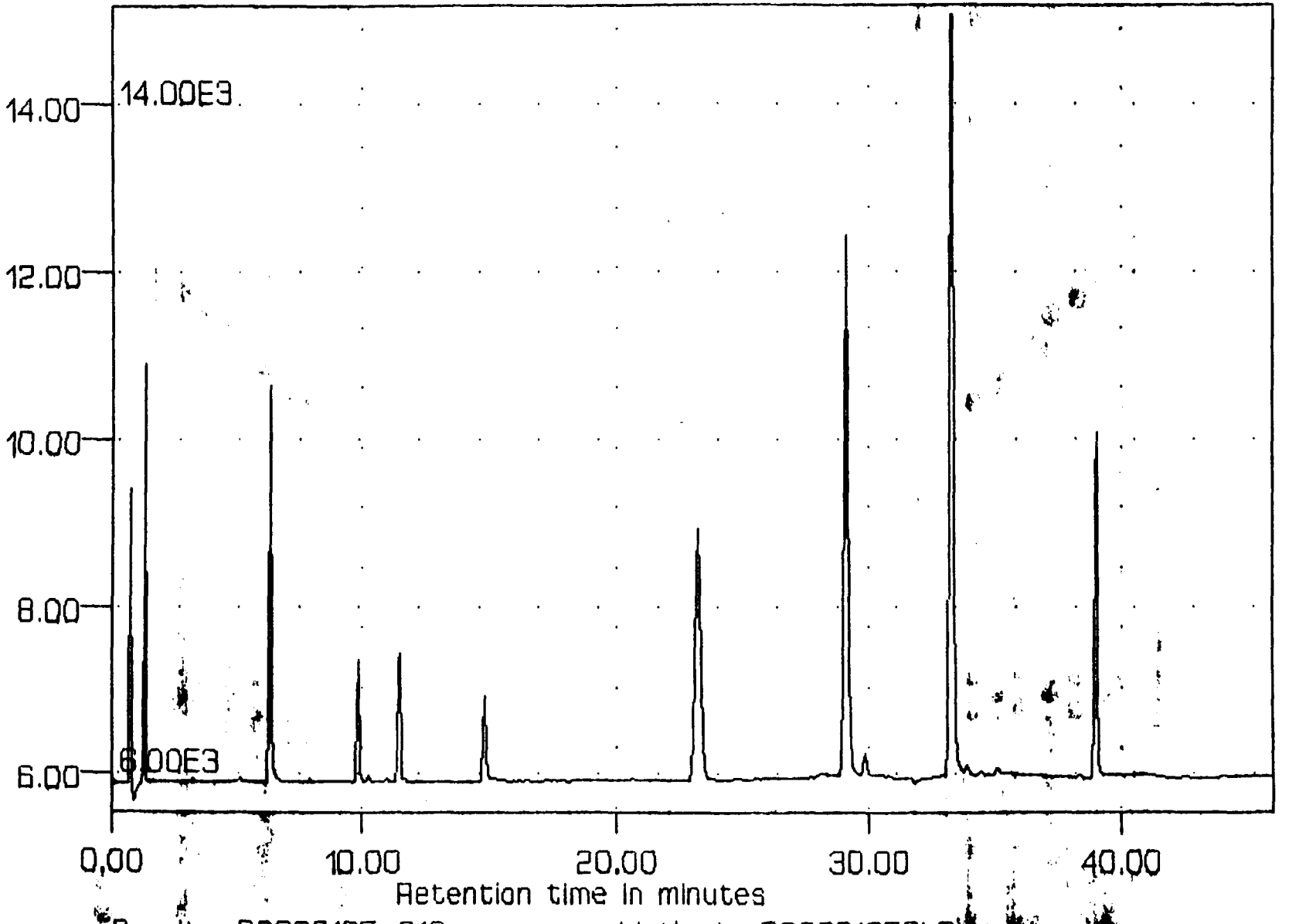
2 2 0793

Sample Name : PEM1H Inj on 0738 02Mar1995
Result File : /RESULT/P2030195_018.RES INSTRUMENT : HP5890P2
lumn Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



2 2 0724

Sample : PEM1H Inj. On : 0738 02Mar1995



Result : P2030195_018 Method : P2030195CLP

IEA Pesticide Standard Report

2 2 0795

Sample Name : PEM1H
Report No : 39.01
Result File : /RESULT/P2030195_018.RES
Column Type : DB-1701 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0738 02Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 8
Bottle no. : 8

% Dil-Fact
: 100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.25	6.26	.080	91845	BB	.21337	Tetrachloro-m-xylene
2	9.73	9.74	.090	31657	BB	.09529	alpha-BHC
3	11.37	11.37	.094	34177	BB	.09433	gamma-BHC (Lindane)
4	14.79	14.79	.114	27240	BB	.09695	beta-BHC
5	23.21	23.22	.241	173327	BB	.47179	Endrin
6	29.05	29.06	.176	272942	BV	.96979	4,4'-DDT
7	29.82		.169	10690	VB	0.00000	
8	33.24	33.25	.148	407318	BV	2.35296	Methoxychlor
9	33.88		.177	5594	VB	0.00000	
10	38.97	#38.97	.139	136988	BB	.21903	Decachlorobiphenyl

Total Area : 1191778 Total PPB : 4.514

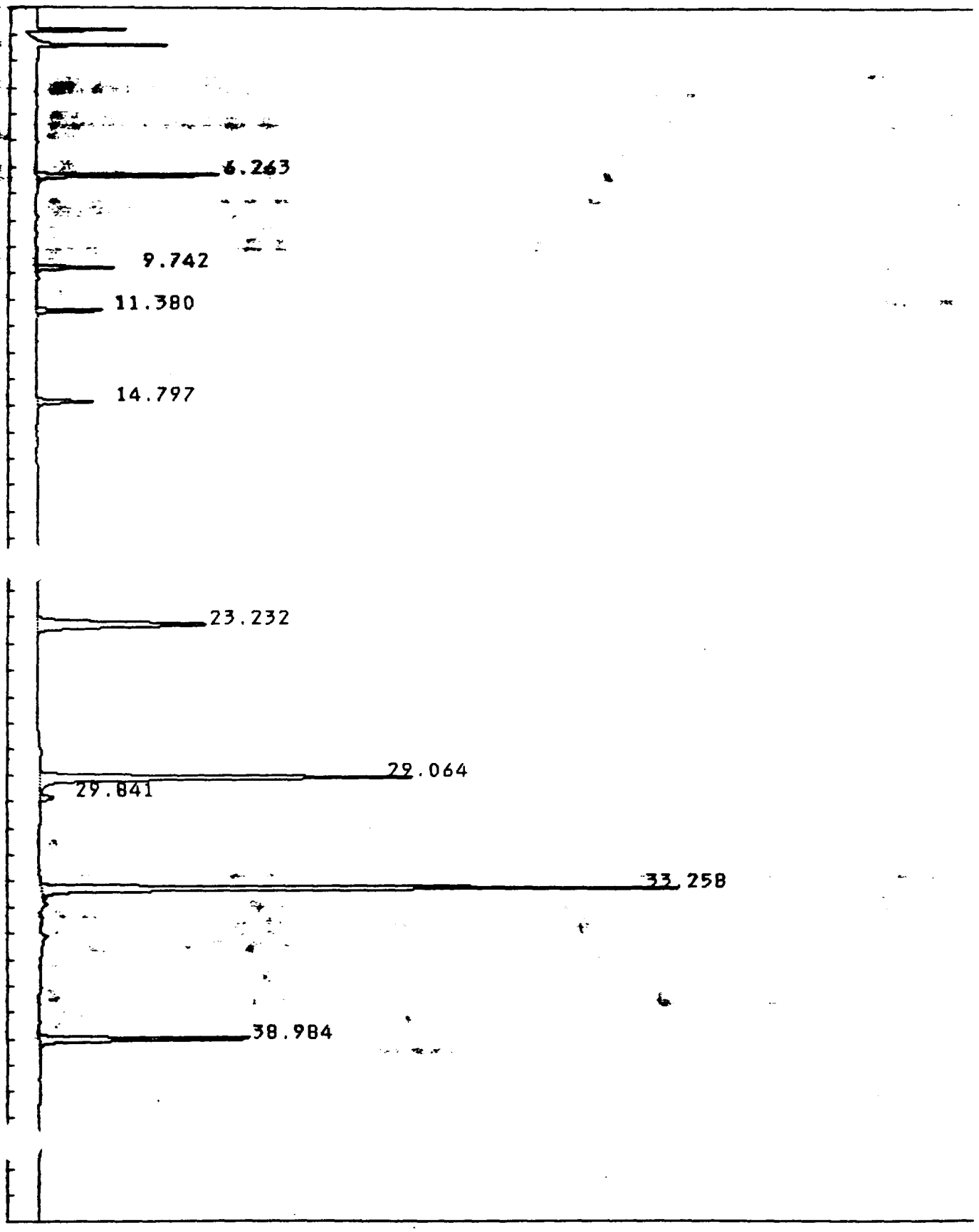
Report Time : 1435 03Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_018.RES

DD
3/7/95

IEA Pesticide Standard Report

2 2 0721

Sample Name : PEM1S Inj on 1607 08Mar1995
Result File : /RESULT/P2030195_056.RES INSTRUMENT : HP5890P2
lumn Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report 2 2 0797

Sample Name : PEM1S Report No : 79.00
Result File : /RESULT/P2030195_056.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 1607 08Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 46 Bottle no. : 46

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.26	6.26	.082	94117	BB	.21864	Tetrachloro-m-xylene
2	9.74	9.74	.091	33008	BB	.09936	alpha-BHC
3	11.38	11.37	.095	35425	BB	.09777	gamma-BHC (Lindane)
4	14.80	14.79	.119	30378	BB	.10812	beta-BHC
5	23.23	23.22	.241	177417	BB	.48292	Endrin
6	29.06	29.06	.178	280558	BV	.99685	4,4'-DDT
7	29.84		.170	10981	VB	0.00000	
8	33.26	33.25	.146	400308	BV	2.31247	Methoxychlor
9	38.98	#38.97	.137	140318	BB	.22435	Decachlorobiphenyl

otal Area : 1202509 Total PPB : 4.540

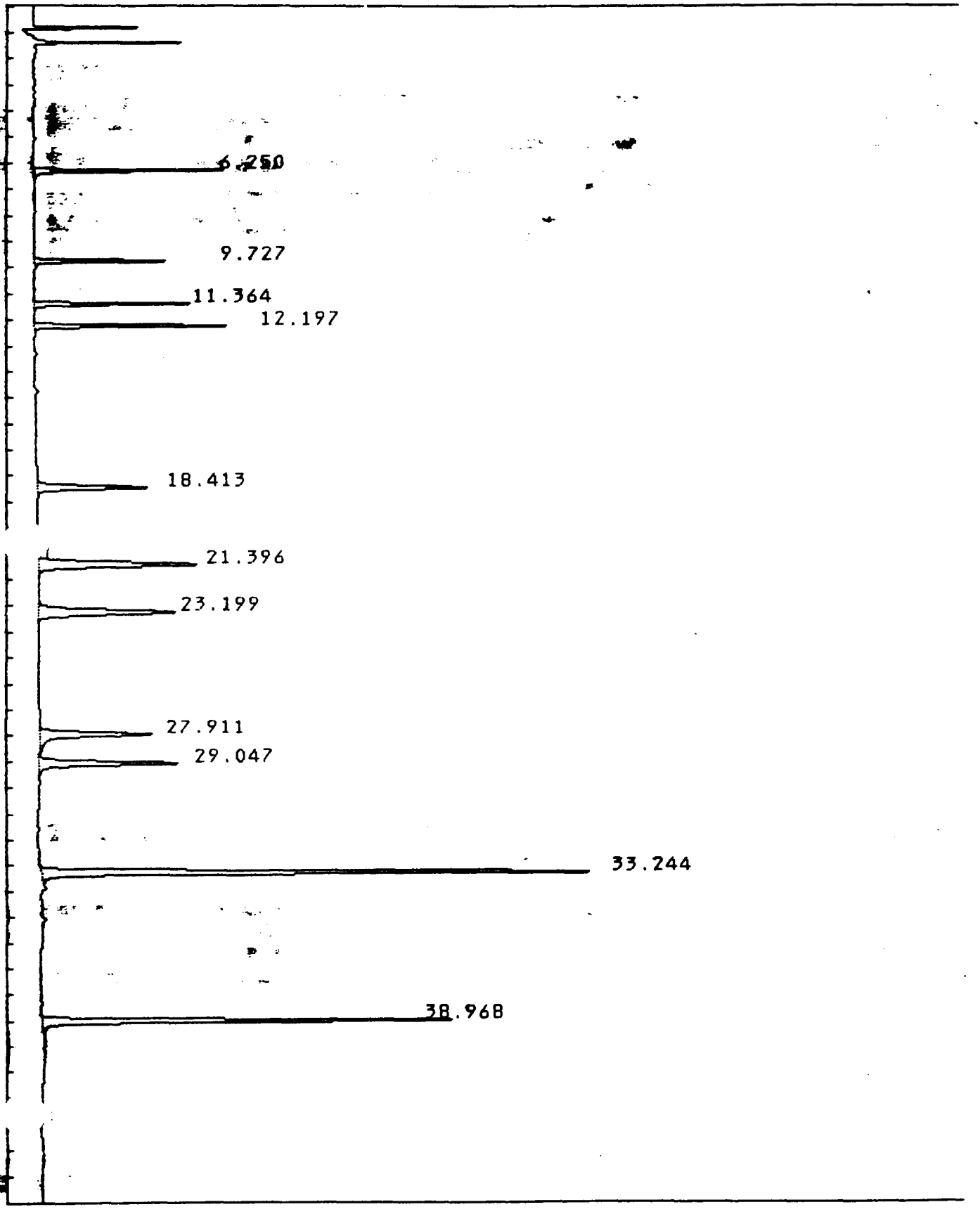
Report Time : 1654 08Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_056.RES

RPC
3/9/95

IEA Pesticide Standard Report

2 2 0793

Sample Name : INDAM1T Inj on 0255 09Mar1995
Result File : /RESULT/P2030195_06B.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

2 2 0799

Sample Name : INDAM1T
Report No : 91.00
Result File : /RESULT/P2030195_06B.RES
Column Type : DB-1701 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0255 09Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 58
Bottle no. : 5B

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.25	6.26	.082	81697	BB	.18979	Tetrachloro-m-xylene
2	9.73	9.74	.088	63426	BB	.19092	alpha-BHC
3	11.36	11.37	.092	69899	BB	.19292	gamma-BHC (Lindane)
4	12.20	12.21	.101	100212	BB	.19666	Heptachlor
5	18.41	18.43	.174	84825	BB	.19383	Endosulfan I
6	21.40	21.41	.215	151674	BB	.40033	Dieldrin
7	23.20	23.22	.243	143245	BB	.38991	Endrin
8	27.91	27.92	.216	105474	BV	.40246	4,4'-DDD
9	29.05	29.06	.183	112539	VB	.39986	4,4'-DDT
10	33.24	33.25	.143	366495	BV	2.11715	Methoxychlor
11	38.97	#38.97	.135	247832	BB	.39626	Decachlorobiphenyl

Total Area : 1527319 Total PPB : 5.070

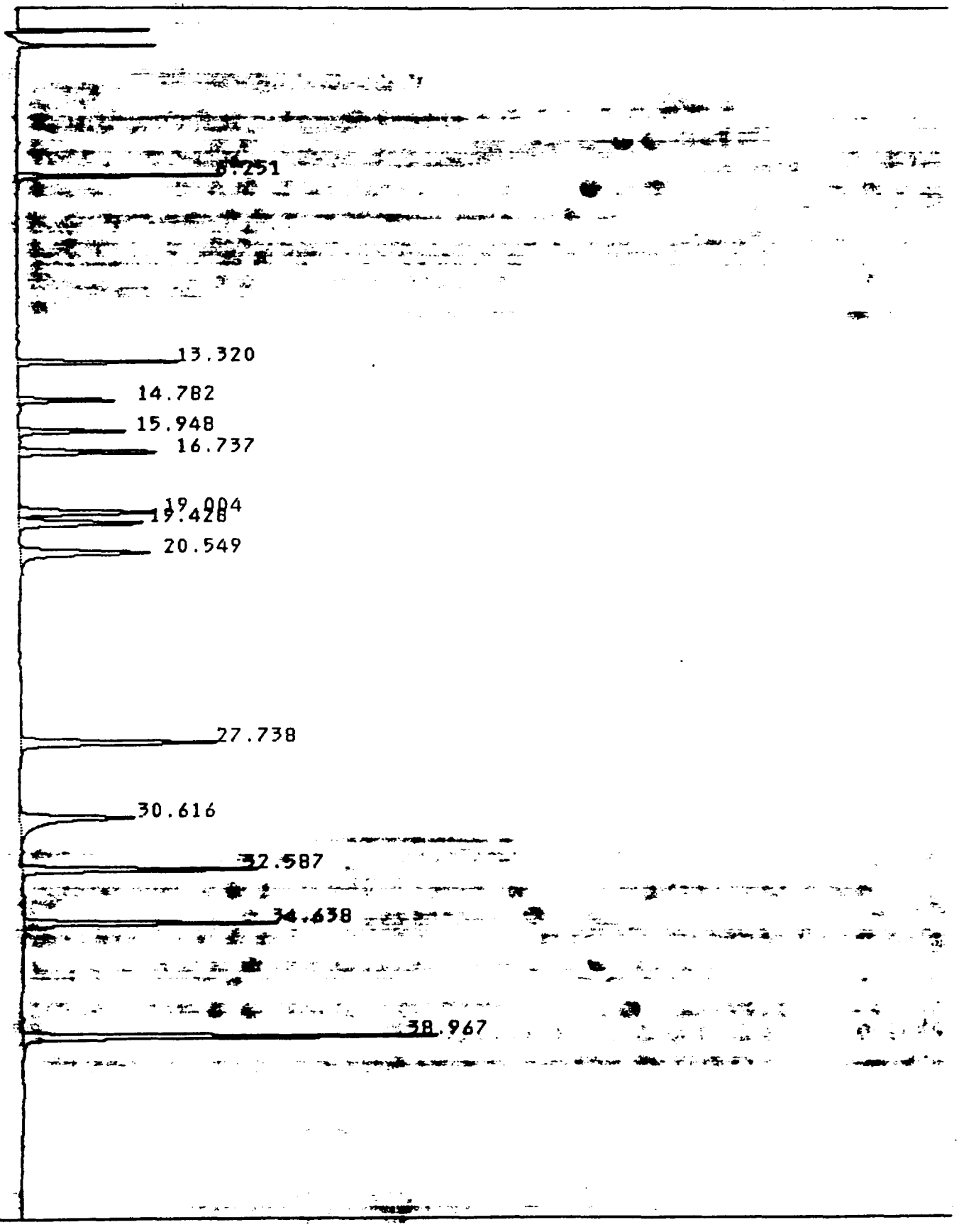
Report Time : 0342 09Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_06B.RES

RPC
3/9/95

IEA Pesticide Standard Report

2 2 0000

Sample Name : INDBM1T Inj on 0348 09Mar1995
Result File : /RESULT/P2030195_069.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

2 2 0001

Sample Name : INDBM1T
Report No : 92.00
Result File : /RESULT/P2030195_069.RES
Column Type : DB-1701 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0348 09Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 59 Bottle no. : 59

% Diff-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.25	6.26	.082	89919	BB	.20889	Tetrachloro-m-xylene
2	13.32	13.33	.100	76129	BB	.19472	Aldrin
3	14.78	14.79	.115	57051	BB	.20305	beta-BHC
4	15.95	15.96	.130	63218	BV	.19133	delta-BHC
5	16.74	16.75	.146	94380	BB	.20047	Heptachlor epoxide
6	19.00	19.02	.185	106690	BV	.19712	gamma-Chlordane
7	19.43	19.44	.188	104349	VB	.19623	alpha-Chlordane
8	20.55	20.56	.236	132222	BB	.39096	4,4'-DDE
9	27.74	27.75	.186	157429	BB	.40213	Endosulfan II
10	30.62	30.63	.276	136492	BV	.40552	Endrin aldehyde
11	32.59	32.60	.146	156193	BB	.39495	Endosulfan sulfate
12	34.64	34.65	.134	150790	BV	.40619	Endrin ketone
13	38.97	#38.97	.138	253239	BB	.40490	Decachlorobiphenyl

Total Area : 1578101 Total PPB : 3.796

Report Time : 0435 09Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_069.RES

RA
3/9/95

1LCD 2 2 0802

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLK67

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: PBLK67 Date Received: / /

Sample wt/vol: 1000 (g/mL) ML Date Extracted:03/07/95

Concentrated Extract Volume: 2000(uL) Date Analyzed: 03/08/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

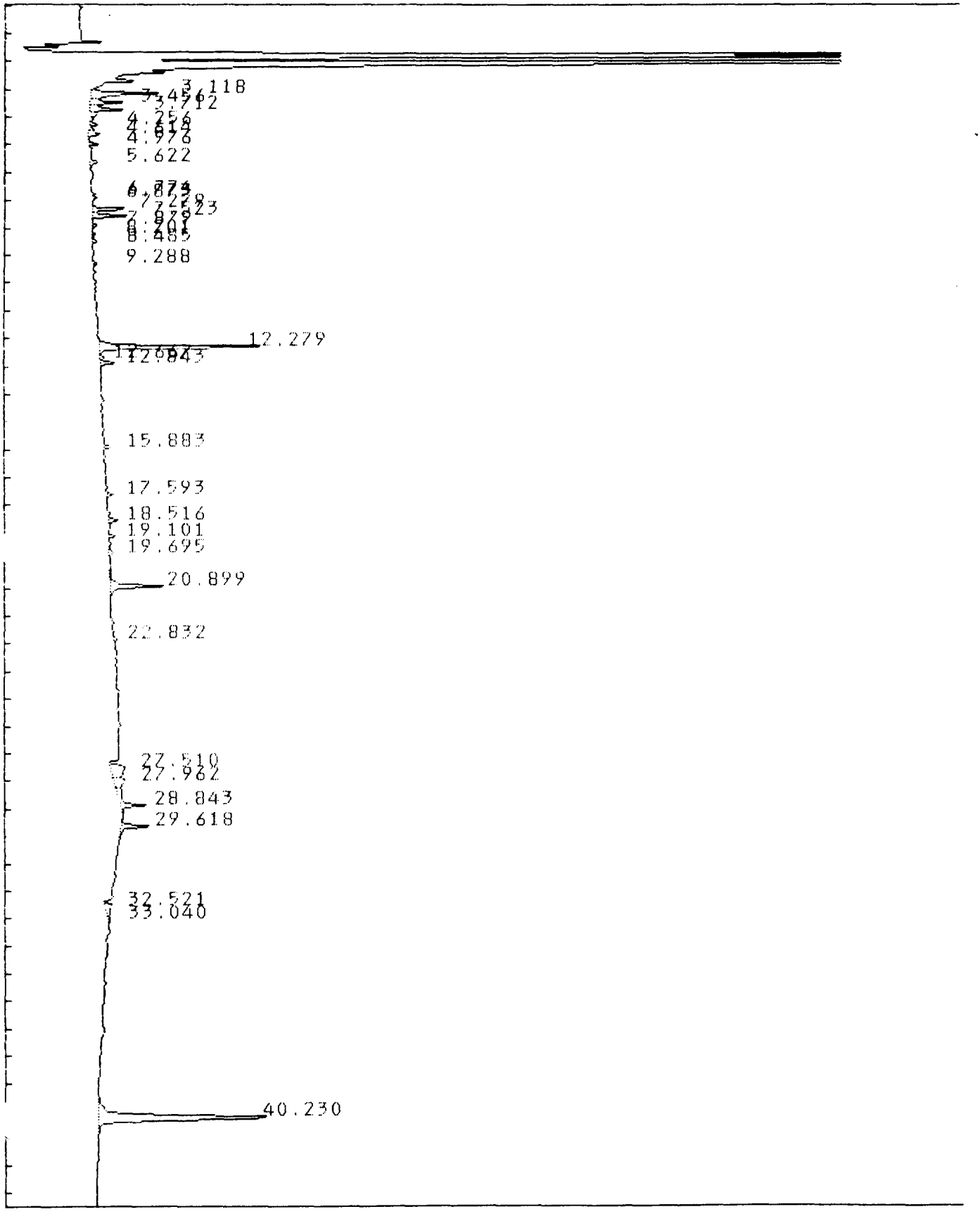
Sulfur Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

IEA Pesticide Standard Report

2 2 0803

Sample Name : PBLK 67 Inj on 1817 08Mar1995
Result File : /RESULT/P1030195_075.RES INSTRUMENT : HP5890P1
lumn Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : PBLK 67 Report No : 128.000
sult File : /RESULT/P1030195_075.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 1817 08Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 65 Bottle no. : 65

% Dil-Fact
20.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	3.12		.120	34046	PH	0.00000	
2	3.46		.094	12371	VV	0.00000	
3	3.71		.100	14697	VV	0.00000	
4	4.26		.090	2872	VV	0.00000	
5	4.61		.101	5914	VV	0.00000	
6	4.98		.080	2921	PV	0.00000	
7	5.62		.147	3861	BV	0.00000	
8	6.77		.053	787	PV	0.00000	
9	6.87		.068	1305	VV	0.00000	
10	7.28		.088	13560	BV	0.00000	
1	7.52		.095	12871	VV	0.00000	
.2	7.88		.140	2447	BV	0.00000	
13	8.20		.140	2394	PV	0.00000	
14	8.40		.095	2173	VB	0.00000	
15	9.29		.100	1822	BB	0.00000	
16	12.28	12.25	.099	67838	VV	.02690	Tetrachloro-m-xylene
17	12.67		.095	2089	VV	0.00000	
18	12.84		.105	5801	VB	0.00000	
19	15.88		.103	2791	BV	0.00000	
20	17.59		.120	2726	BB	0.00000	
21	18.52		.115	4090	PV	0.00000	
22	19.10		.097	2096	BV	0.00000	
23	19.69		.154	2352	VV	0.00000	
24	20.90	20.93	.145	29740	BB	.01167	~~Aldrin~~ DNC
25	22.83		.118	1757	BB	0.00000	
26	27.51	27.46	.412	21188	PV	.01079	~~4,4'~~-DDD BQL
27	27.96		.313	12878	VV	0.00000	
28	28.84		.196	19219	VB	0.00000	
29	29.62		.126	14047	BB	0.00000	
30	32.52		.300	7972	PV	0.00000	
31	33.04		.227	1788	VV	0.00000	
32	40.23	#40.20	.226	141502	BB	.03026	Decachlorobiphenyl

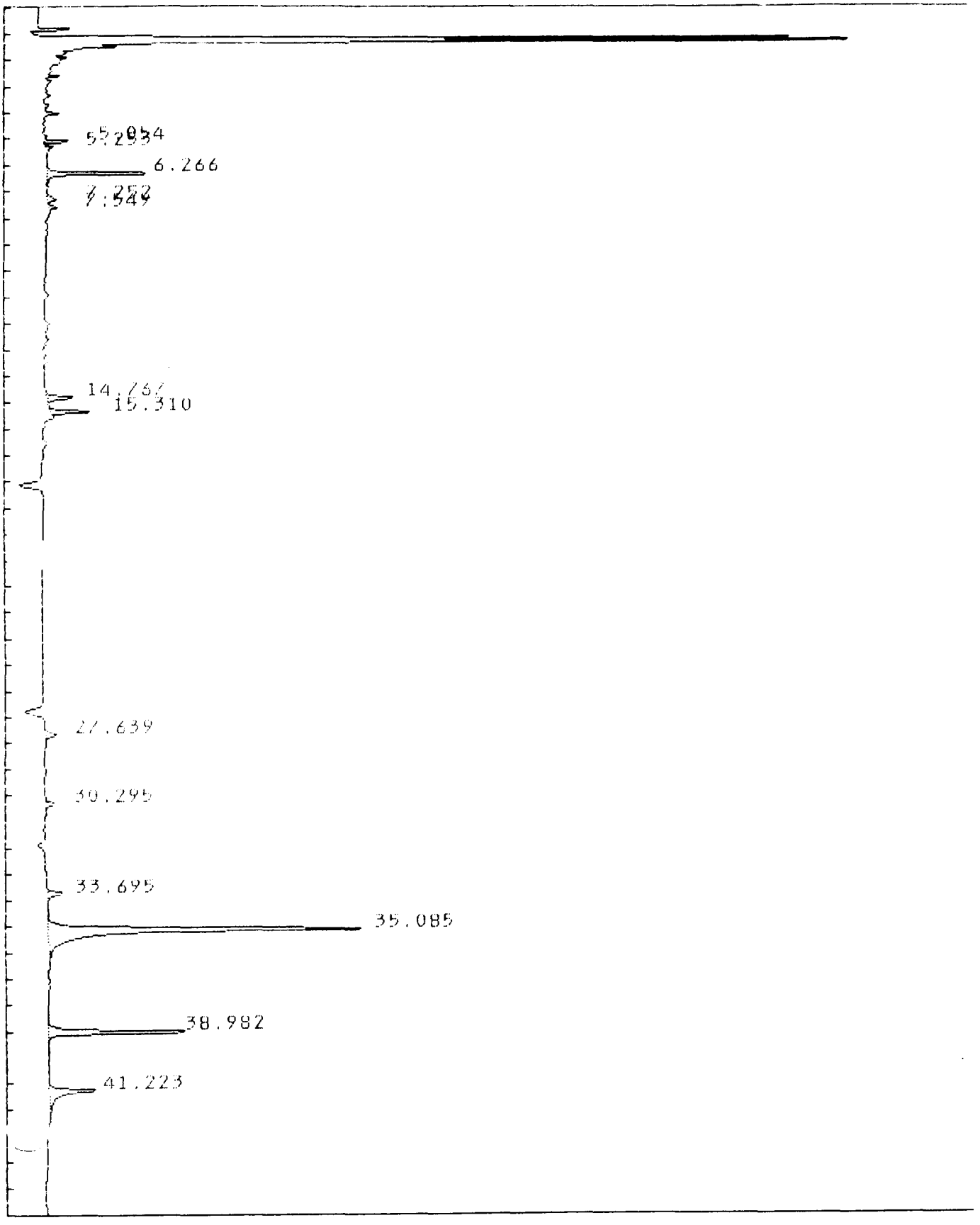
Total Area : 453913 Total PPB : .080

port Time : 1901 08Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_075.RES

RPC
3/9/95

ltA Pesticide Standard Report

Sample Name : PBLK 67 Inj on 1852 08Mar1995
Result File : /RESULT/P2030195_059.RES INSTRUMENT : HP5890P2
lumn Type : DB-1/01 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : PBLK 67 Report No : 82.00
sult File : /RESULT/P2030195_059.RES
olumn Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 1852 08Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 49 Bottle no. : 49

% Dil-Fact
20.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	5.05		.067	10231	BV	0.00000	
2	5.25		.097	3748	PB	0.00000	
3	6.27	6.26	.088	55467	BB	.02577	Tetrachloro-m-xylene
4	7.25		.156	6032	BV	0.00000	
5	7.55		.102	4304	VV	0.00000	
6	14.77	14.79	.146	17519	BB	.01247	~~beta-BHC~~ DNC
7	15.31		.114	20733	BV	0.00000	
8	27.64		.207	10220	BB	0.00000	
9	30.30		.188	6911	BB	0.00000	
10	33.70		.178	11286	BB	0.00000	
11	35.09		.204	284883	BB	0.00000	
12	38.98	#38.97	.144	94982	BB	.03037	Decachlorobiphenyl
13	41.22		.245	51779	BB	0.00000	

Total Area : 578096 Total PPB : .069

Report Time : 1939 08Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_059.RES

RPC
3/9/95

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK1I

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: PIBLK1I Date Received: _____

Sample wt/vol: _____ (g/mL) Date Extracted: _____

Concentrated Extract Volume: _____(uL) Date Analyzed: 03/02/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

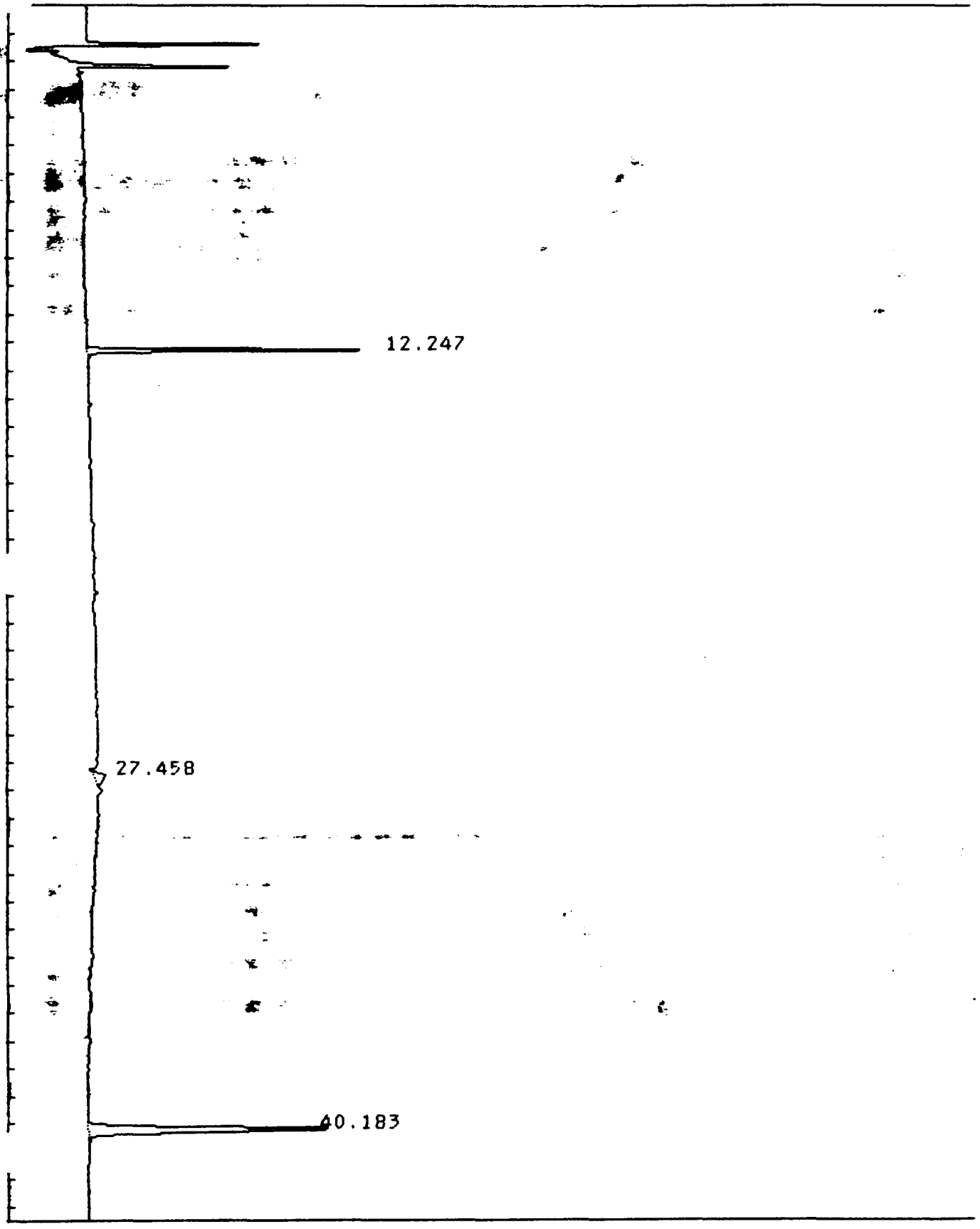
Sulfur Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.036	
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

IEA Pesticide Standard Report

2 2 0803

Sample Name : PIBLK1I Inj on 0632 02Mar1995
Result File : /RESULT/P1030195_017.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

2 2 0309

Sample Name : PIBLK1I Report No : 66.220
Result File : /RESULT/P1030195_017.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0632 02Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 7 Bottle no. : 7

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.25	12.25	.090	104999	BB	.20816	Tetrachloro-m-xylene
2	27.46	27.46	.331	14108	BB	.03592	4,4'-DDD J <½ Quant. Limit
3	40.18	#40.20	.216	195589	BB	.20910	Decachlorobiphenyl

Total Area : 314697 Total PPB : .453

Report Time : 1641 08Mar1995
Method : /METHOD/P1030195.MTH
Result File : /RESULT/P1030195_017.RES

DD
3/8/95

1LCD 2 2 0810

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK1H

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: PIBLK1H Date Received: _____

Sample wt/vol: _____ (g/mL) Date Extracted: _____

Concentrated Extract Volume: _____(uL) Date Analyzed: 03/02/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

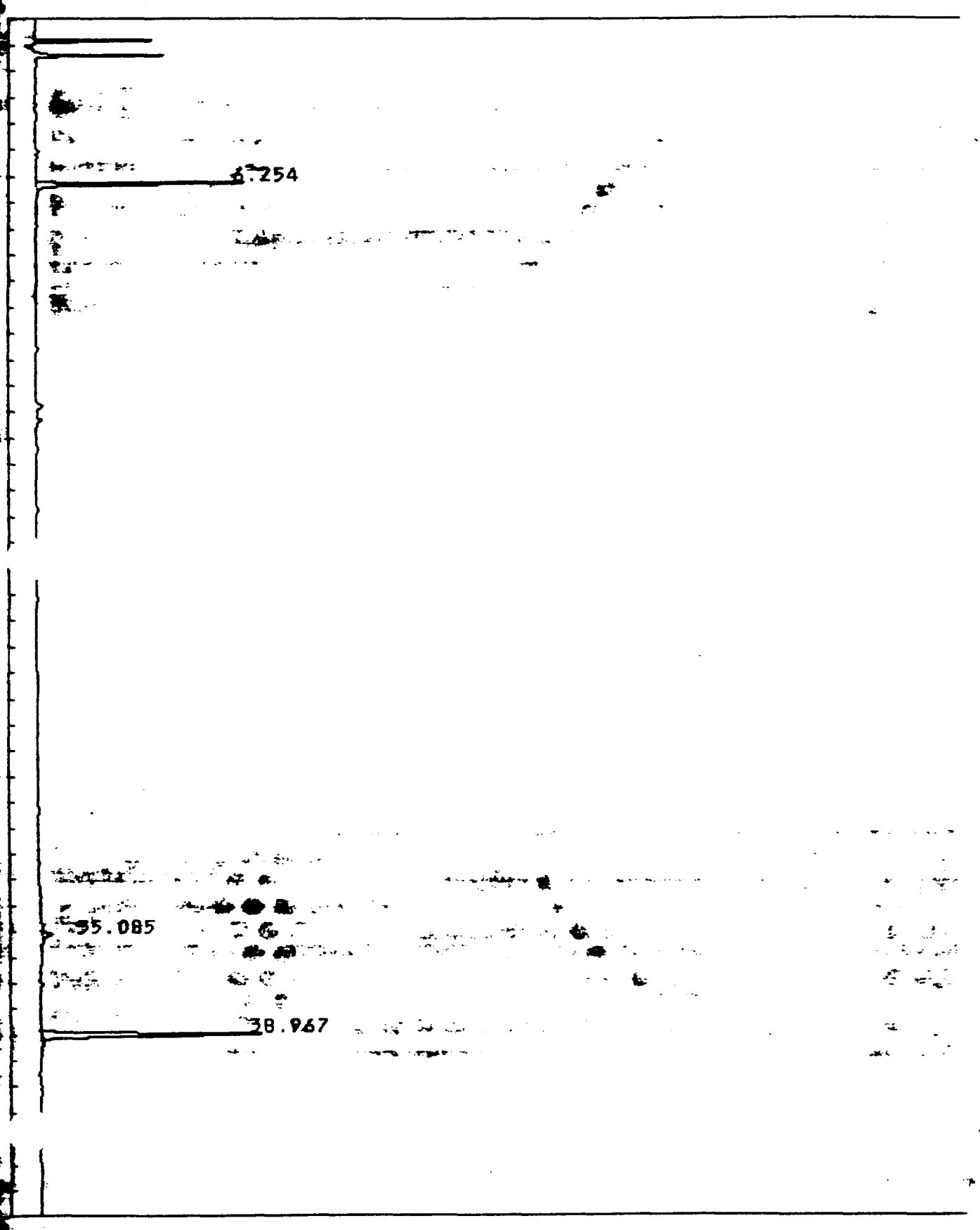
Sulfur Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

EA Pesticide Standard Report

2 2 0811

Sample Name : PIBLK1H Inj on 0643 02Mar1995
Result File : /RESULT/P2030195_017.RES INSTRUMENT : HP5890P2
lumn Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report 2 2 0812

Sample Name : PIBLK1H Report No : 3B.01
Result File : /RESULT/P2030195_017.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0643 02Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 7 Bottle no. : 7

% Dil-Fact
: 100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.25	6.26	.081	92040	BB	.21382	Tetrachloro-m-xylene
2	35.09		.154	6981	BB	0.00000	
3	38.97	#38.97	.136	133276	BB	.21309	Decachlorobiphenyl

Total Area : 232297 Total PPB : .427

Report Time : 1430 03Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_017.RES

DD
3/7/95

2 2 0813

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK7Z

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: PIBLK7Z Date Received: _____

Sample wt/vol: _____ (g/mL) Date Extracted: _____

Concentrated Extract Volume: _____(uL) Date Analyzed: 03/08/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

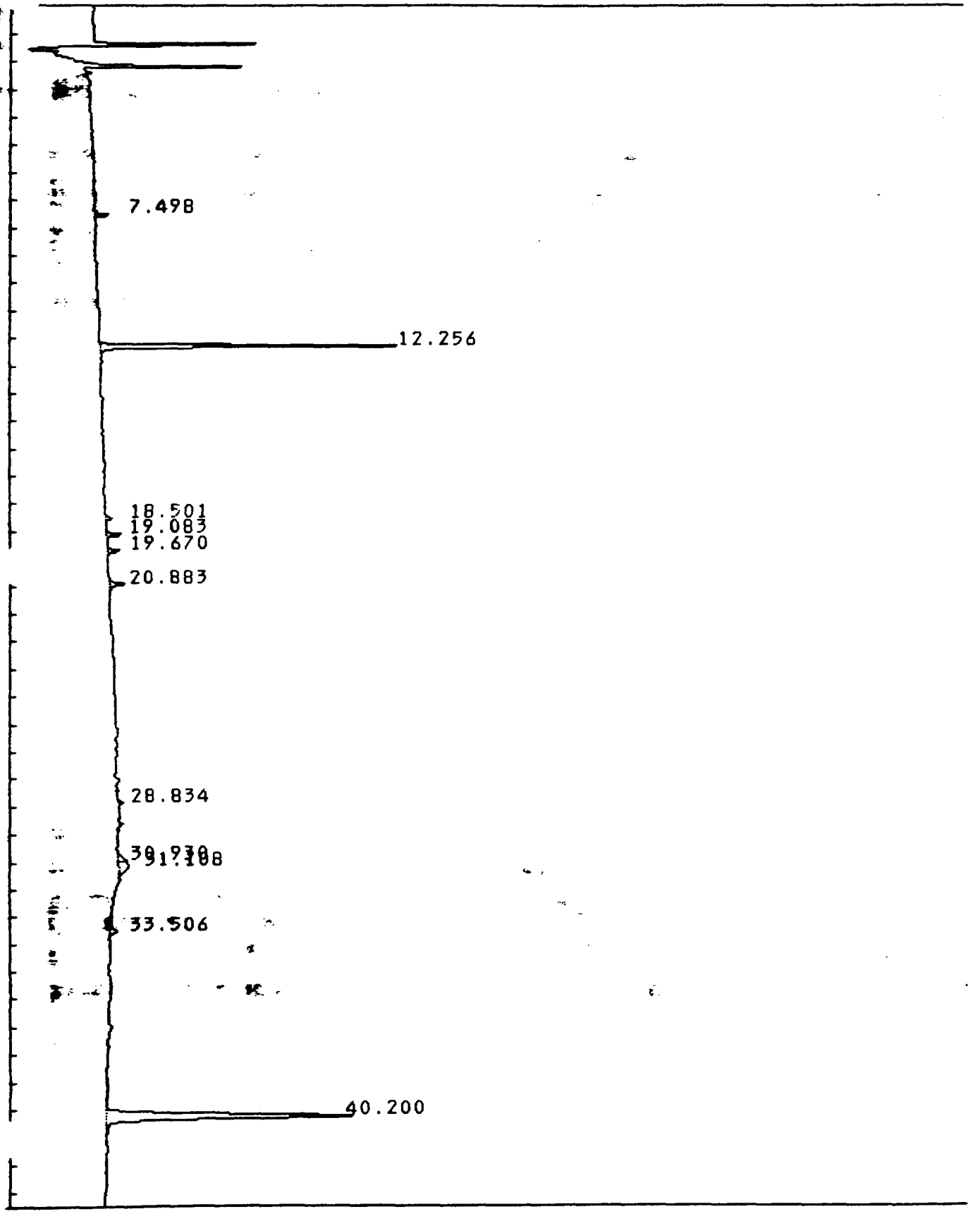
Sulfur Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.018	
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

IEA Pesticide Standard Report

2 2 0314

Sample Name : PIBLK7Z Inj on 1456 08Mar1995
Result File : ✓RESULT/P1030195_072.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

2 2 0815

Sample Name : PIBLK7Z
Report No : 125.000
Result File : /RESULT/P1030195_072.RES
Column Type : RTX-35 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 1456 08Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 62
Bottle no. : 62

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	7.50		.090	6189	BB	0.00000	
2	12.26	12.25	.090	108376	BB	.21486	Tetrachloro-m-xylene
3	18.50		.105	2598	BB	0.00000	
4	19.08		.099	6380	BB	0.00000	
5	19.67		.107	5182	BB	0.00000	
6	20.88	20.93	.132	9125	BB	.01791	Aldrin J < ½ quant Limit
7	28.83		.101	1852	BB	0.00000	
8	30.93		.194	6694	BV	0.00000	
9	31.11		.340	12336	VV	0.00000	
10	33.51		.148	4088	BV	0.00000	
11	40.20	#40.20	.213	193528	BB	.20690	Decachlorobiphenyl

Total Area : 356347 Total PPB : .440

Report Time : 1545 08Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_072.RES

DD 3/8/95

1LCD 2 2 0816

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK1S

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: PIBLK1S Date Received: _____

Sample wt/vol: _____ (g/mL) Date Extracted: _____

Concentrated Extract Volume: _____(uL) Date Analyzed: 03/08/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

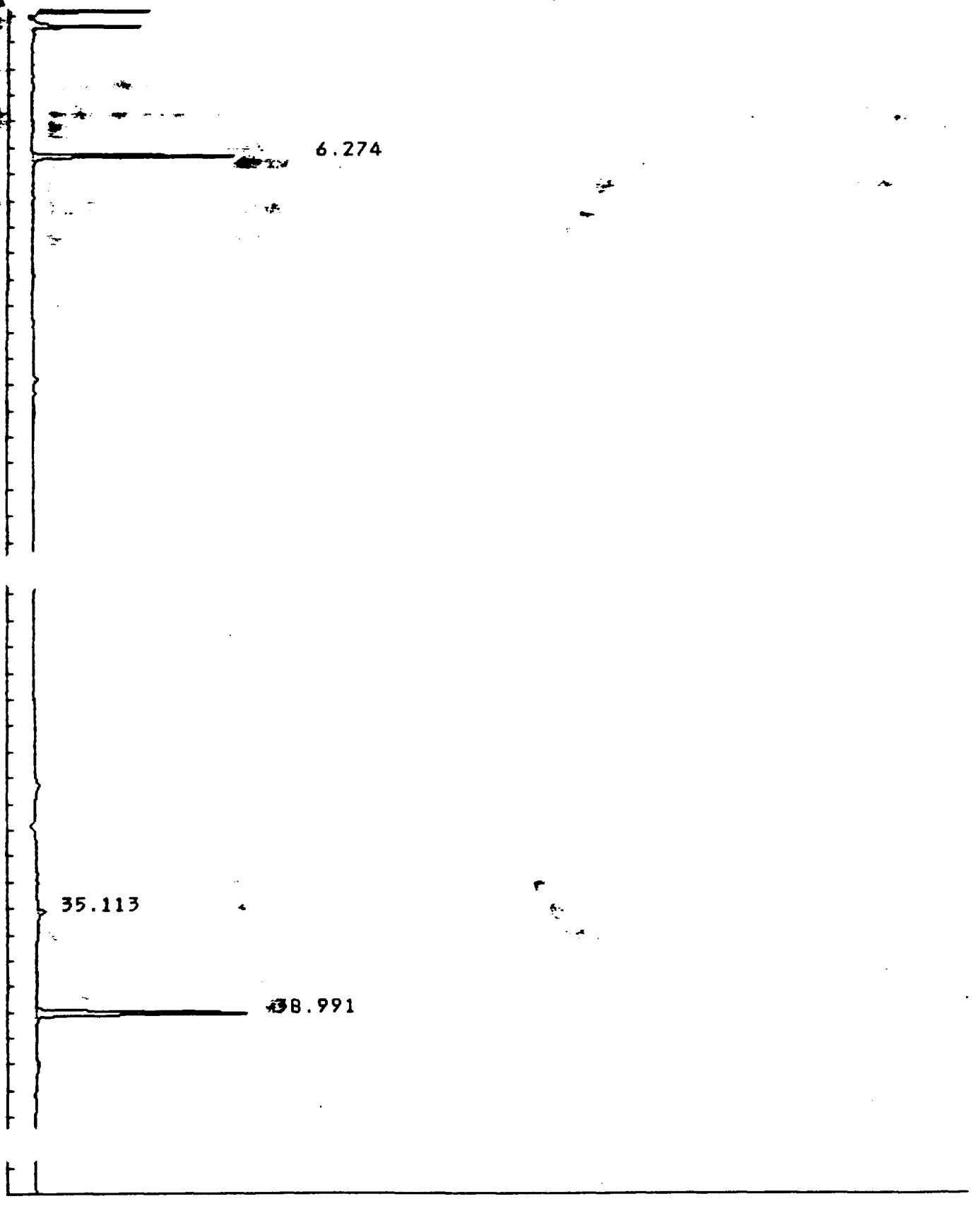
Sulfur Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

IEA Pesticide Standard Report

2 2 0817

Sample Name : PIBLK1S Inj on 1513 08Mar1995
Result File : /RESULT/P2030195_055.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report 2 2 0813

Sample Name : PIBLK1S Report No : 78.00
Result File : /RESULT/P2030195_055.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 1513 08Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 45 Bottle no. : 45

% Dil-Fact
: 100.00

Run Status : **RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.27	6.26	.080	92104	BB	.21397	Tetrachloro-m-xylene
2	35.11		.152	4809	BB	0.00000	
3	38.99	#38.97	.135	133625	BB	.21365	Decachlorobiphenyl

Total Area : 230539 Total PPB : .428

Report Time : 1603 08Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_055.RES

RPC
3/9/95

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK1U

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: PIBLK1U Date Received: _____

Sample wt/vol: _____ (g/mL) Date Extracted: _____

Concentrated Extract Volume: _____(uL) Date Analyzed: 03/09/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

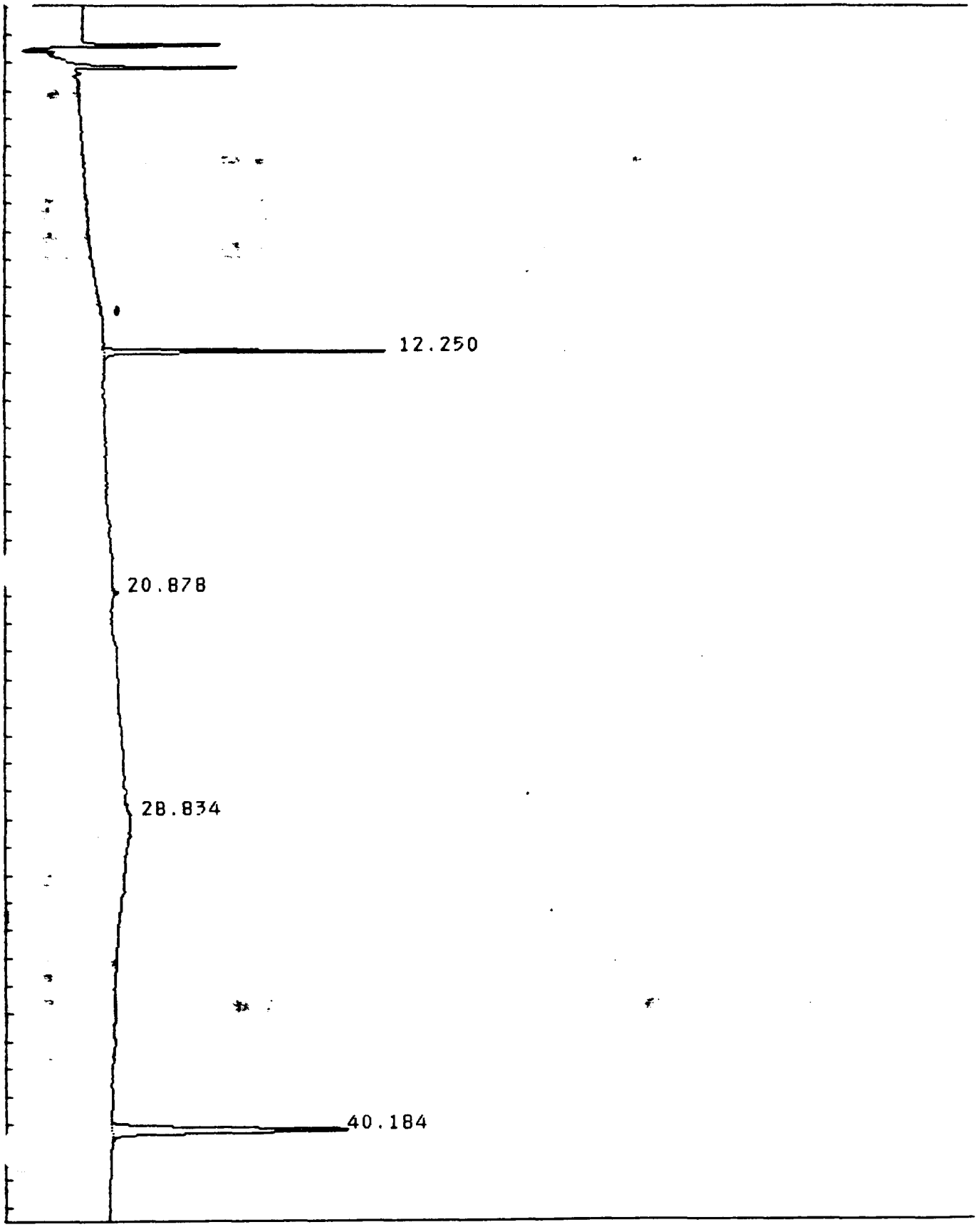
Sulfur Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

IEA Pesticide Standard Report

2 2 0820

Sample Name : PIBLK1U Inj on 0137 09Mar1995
Result File : /RESULT/P1030195_083.RES INSTRUMENT : HP5890P1
Column Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : PIBLK1U
Report No : 136.000
Result File : /RESULT/P1030195_083.RES
Column Type : RTX-35 30 Meter,0.53mm ID
Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 0137 09Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 73
Bottle no. : 73

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	12.25	12.25	.090	104895	BB	.20796	Tetrachloro-m-xylene
2	20.88		.118	2883	BB	0.00000	
3	28.83		.117	1012	BB	0.00000	
4	40.18	#40.20	.214	188258	BB	.20126	Decachlorobiphenyl

Total Area : 297048 Total PPB : .409

Report Time : 0222 09Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_083.RES

RPC
3/9/95

1LCD 2 2 0822

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PIBLK1T

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: PIBLK1T Date Received: _____

Sample wt/vol: _____ (g/mL) Date Extracted: _____

Concentrated Extract Volume: _____(uL) Date Analyzed: 03/09/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

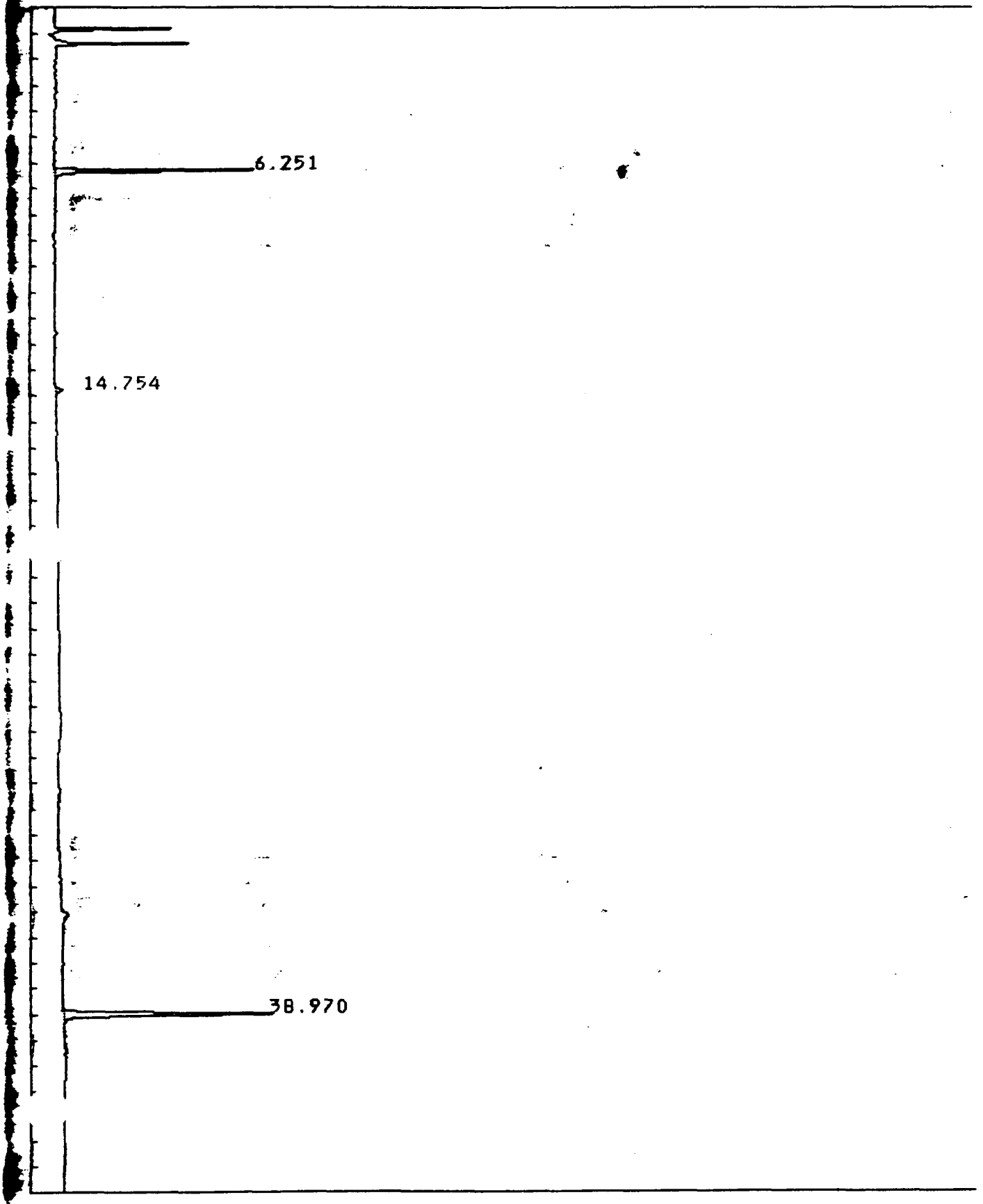
Sulfur Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.015	
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

IEA Pesticide Standard Report

2 2 0823

Sample Name : PIBLK1T Inj on 0201 09Mar1995
Result File : /RESULT/P2030195_067.RES INSTRUMENT : HP5890P2
Column Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report 2 2 0824

Sample Name : PIBLK1T Report No : 90.00
Result File : /RESULT/P2030195_067.RES
Column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSTD
Run Time : 46.00 Mins. Injected on 0201 09Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 57 Bottle no. : 57

% Dil-Fact
100.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.25	6.26	.081	87085	BB	.20231	Tetrachloro-m-xylene
2	14.75	14.79	.136	4349	BB	.01548	beta-BHC
3	38.97	#38.97	.135	129673	BB	.20733	Decachlorobiphenyl

Total Area : 221107 Total PPB : .425

Report Time : 0248 09Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_067.RES

RPC
3/9/95

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PLCS66

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: PLCS66 Date Received: / /

Sample wt/vol: 1000 (g/mL) ML Date Extracted:03/07/95

Concentrated Extract Volume: 2000(uL) Date Analyzed: 03/08/95

Injection Volume: 1.0(uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.075	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.074	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.15	
72-55-9	4,4'-DDE	0.14	
72-20-8	Endrin	0.15	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.12	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.069	
8001-35-2	Toxaphene	0.040	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U

10LCA

LOW CONC. WATER PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

PLCS66

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Lab Sample ID: PLCS66 Date(s) Analyzed: 03/08/95

Instrument ID (1): HP5890P1 Instrument ID (2): HP5890P2

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

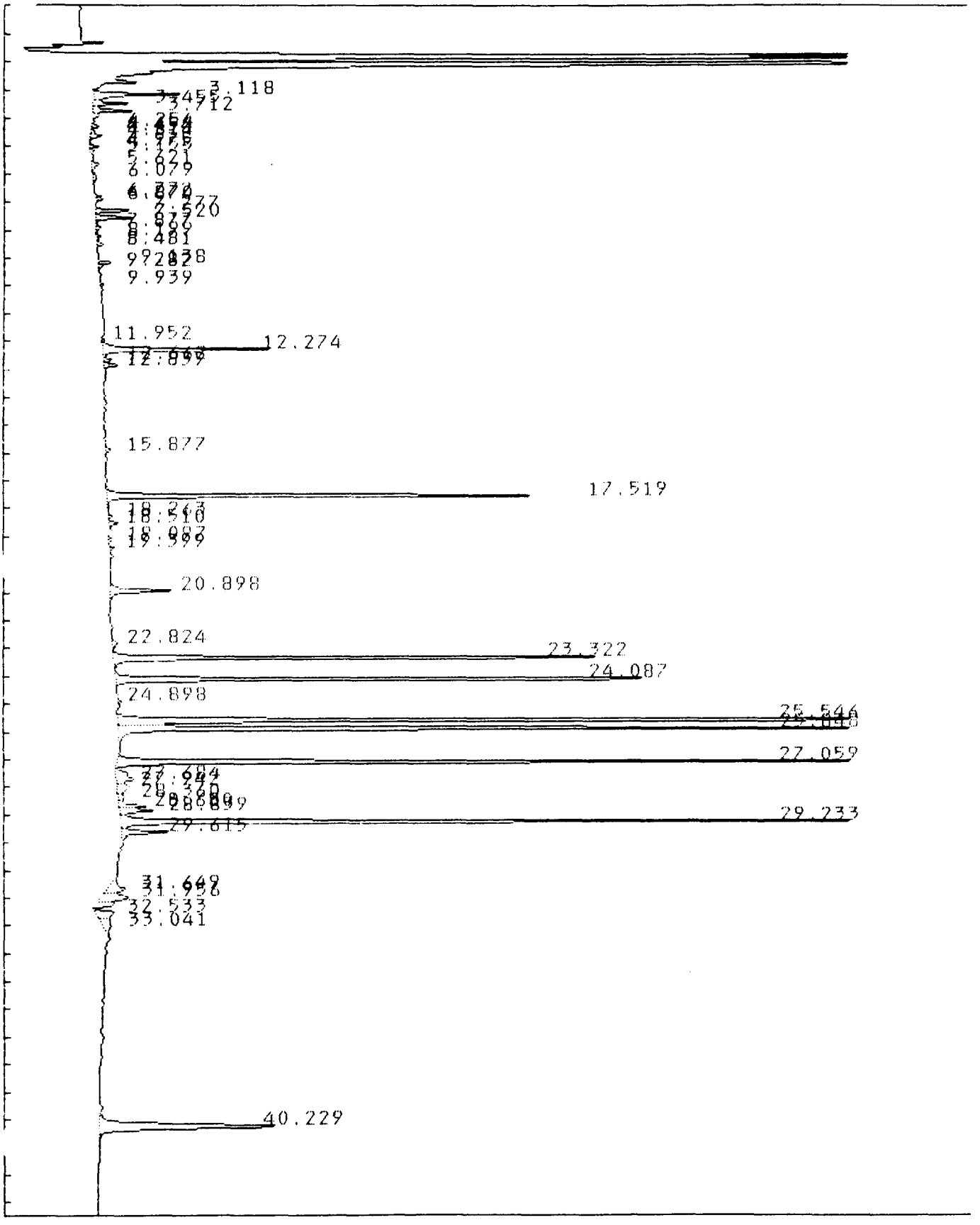
ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	17.52	17.45	17.55	0.080	
	2	11.38	11.32	11.42	0.075	6.7
Heptachlor epoxide	1	23.32	23.24	23.38	0.076	
	2	16.76	16.68	16.82	0.074	2.7
Dieldrin	1	25.85	25.76	25.90	0.16	
	2	21.42	21.34	21.48	0.15	6.7
4,4'-DDE	1	25.55	25.46	25.60	0.15	
	2	20.57	20.49	20.63	0.14	7.1
Endrin	1	27.06	26.98	27.12	0.16	
	2	23.23	23.15	23.29	0.15	6.7
Endosulfan sulfate	1	29.23	29.15	29.29	0.13	
	2	32.60	32.53	32.67	0.12	8.3
gamma-Chlordane	1	24.09	24.00	24.14	0.072	
	2	19.03	18.95	19.09	0.069	4.3
	1					
	2					

FORM X LCP-1 6/91

IEA Pesticide Standard Report

2 2 0827

Sample Name : PLCS 66 Inj on 1912 08Mar1995
Result File : /RESULT/P1030195_076.RES INSTRUMENT : HP5890P1
lumn Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

2 2 0823

Sample Name : PLCS 66 Report No : 129.000
Result File : /RESULT/P1030195_076.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 1912 08Mar1995
Sequence File : /SEQUENCE/P1030195CLP.SEQ
Subseq/Sample : 3/ 66 Bottle no. : 66

% Dil-Fact
20.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	3.12		.100	36388	PH	0.00000	
2	3.46		.079	11590	VV	0.00000	
3	3.71		.083	14854	VV	0.00000	
4	4.25		.084	2685	VV	0.00000	
5	4.45		.067	1375	VV	0.00000	
6	4.61		.081	4622	VV	0.00000	
7	4.97		.082	3090	PV	0.00000	
8	5.15		.107	1573	VV	0.00000	
9	5.62		.168	5319	VV	0.00000	
10	6.08		.243	2895	PV	0.00000	
11	6.77		.065	1894	BV	0.00000	
12	6.87		.071	2205	VV	0.00000	
13	7.28		.085	13441	BV	0.00000	
14	7.52		.098	14043	VV	0.00000	
15	7.88		.154	3087	VV	0.00000	
16	8.20		.150	2314	VV	0.00000	
17	8.48		.098	2873	VB	0.00000	
18	9.14		.084	5388	VV	0.00000	
19	9.28		.097	1913	VB	0.00000	
20	9.94		.106	1668	BV	0.00000	
21	11.95		.104	1305	PV	0.00000	
22	12.27	12.25	.100	67668	VV	.02683	Tetrachloro-m-xylene
23	12.66		.101	3459	VV	0.00000	68%
24	12.84		.108	6218	VB	0.00000	
25	15.88		.121	3221	VV	0.00000	
26	17.52	17.50	092	171730	BB	.08025	gamma-BHC (Lindane)
27	18.26		.098	1741	BV	0.00000	80%
28	18.51		.114	4035	PV	0.00000	
29	19.10		.098	1734	BV	0.00000	
30	19.40	19.38	.099	1759	PV	~~.00060~~	~~Heptachlor~~
31	20.90	20.93	.145	34067	BB	~~.01337~~	~~Aldrin~~
32	22.82		.166	3958	PV	0.00000	
33	23.32	23.31	.094	205913	VV	.07610	Heptachlor epoxide 76%
34	24.09	24.07	.092	233630	VB	.07210	gamma-Chlordane 72%
35	24.90		.073	1207	PV	0.00000	
36	25.55	25.53	.087	387783	BV	.14968	4,4'-DDE 75%
37	25.85	25.83	.087	375083	VV	.16354	Dieldrin 80%

RPC
3/9/95

IEA Pesticide Standard Report

2 2 C829

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
38	27.06	27.05	.085	297324	BB	.15725	Endrin 80%
39	27.68	27.67	.288	19715	BV	~~.00901~~	~~Endosulfan II~~
40	27.94		.293	12623	VV	0.00000	
41	28.36		.185	4156	VV	0.00000	
42	28.68	28.68	.138	14552	VV	~~.00673~~	~~Endrin aldehyde~~
43	28.84		.120	15931	VV	0.00000	
44	29.23	29.22	.086	289277	VV	.13365	Endosulfan sulfate 65%
45	29.61		.125	22629	VV	0.00000	
46	31.65		.264	16484	BV	0.00000	
47	31.96	32.02	.257	24388	VV	~~.01019~~	~~Endrin ketone~~
48	32.53		.267	17785	PV	0.00000	
49	33.04		.456	12479	VB	0.00000	
50	40.23	#40.20	.217	140984	VB	.03014	Decachlorobiphenyl 75%

Total Area : 2526055 Total PPB : .929

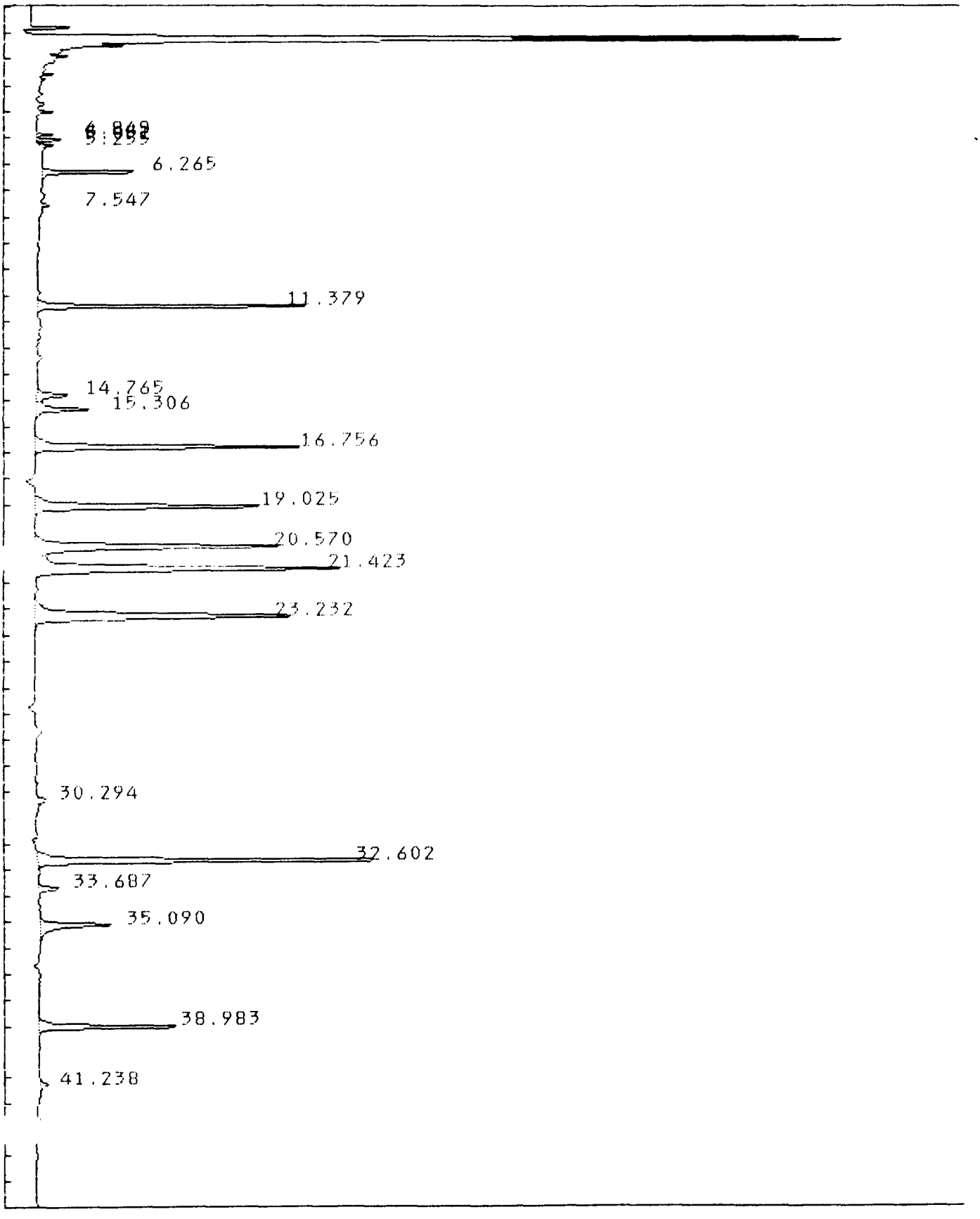
Report Time : 1956 08Mar1995
Method : /METHOD/P1030195CLP.MTH
Result File : /RESULT/P1030195_076.RES

RPC
3/9/95

IEA Pesticide Standard Report

2 2 0830

Sample Name : PLCS 66 Inj on 1946 08Mar1995
Result File : /RESULT/P2030195_060.RES INSTRUMENT : HP5890P2
lumn Type : DB-1701 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

Sample Name : PLCS 66 Report No : 83.00
sult File : /RESULT/P2030195_060.RES
column Type : DB-1701 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P2
Calculation : ExternalSID
Run Time : 46.00 Mins. Injected on 1946 08Mar1995
Sequence File : /SEQUENCE/P2030195CLP.SEQ
Subseq/Sample : 3/ 50 Bottle no. : 50

% Dil-Fact
20.00

Run Status : RunStatusOK

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	4.85		.072	6259	BV	0.00000	
2	5.05		.070	10240	VV	0.00000	
3	5.25		.103	6592	PB	0.00000	
4	6.26	6.26	.087	50658	BB	.02354	Tetrachloro-m-xylene 60%
5	7.55		.094	3823	BV	0.00000	
6	11.38	11.37	.090	135486	BB	.07479	gamma-BHC (Lindane)
7	14.77	14.79	.171	24291	BV	~~.01729~~	~~beta-BHC~~ 75%
8	15.31		.163	39222	VB	0.00000	
9	16.76	16.75	.151	173322	BB	.07363	Heptachlor epoxide 74%
10	19.05	19.02	.190	187778	BB	.06939	gamma-Chlordane 69%
11	20.57	20.56	.226	235946	BV	.13953	4,4'-DDE 70%
12	21.42	21.41	.224	287495	VV	.15176	Dieldrin 75%
13	23.23	23.22	.245	271689	BB	.14790	Endrin 75%
14	30.29		.201	7538	BB	0.00000	
15	32.60	32.60	.149	241654	BV	.12221	Endosulfan sulfate 60%
16	33.69		.163	14270	BB	0.00000	
17	35.09		.199	60948	BB	0.00000	
18	38.98	#38.97	.143	93959	BB	.03005	Decachlorobiphenyl 75%
19	41.24		.184	6080	BB	0.00000	

Total Area : 1857248 Total PPB : .850

Report Time : 2032 08Mar1995
Method : /METHOD/P2030195CLP.MTH
Result File : /RESULT/P2030195_060.RES

RPC
3/9/95

9LCA
LOW CONC. WATER PESTICIDE FLORISIL CARTRIDGE CHECK

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 6/91

Lab Code: IEA Case No.: 2041-001(0) SDG No.: 03098

Florisil Cartridge Lot Number: 159AC Date of Analysis: 02/27/95

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	8.7	87	80-120
gamma-BHC (Lindane)	10	8.9	89	80-120
Heptachlor	10	9.9	99	80-120
Endosulfan I	10	9.1	91	80-120
Dieldrin	20	18	90	80-120
Endrin	20	19	95	80-120
4,4'-DDD	20	22	110	80-120
4,4'-DDT	20	18	90	80-120
Methoxychlor	100	100	100	80-120
Tetrachloro-m-xylene	10	9.0	90	80-120
Decachlorobiphenyl	20	19	95	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:

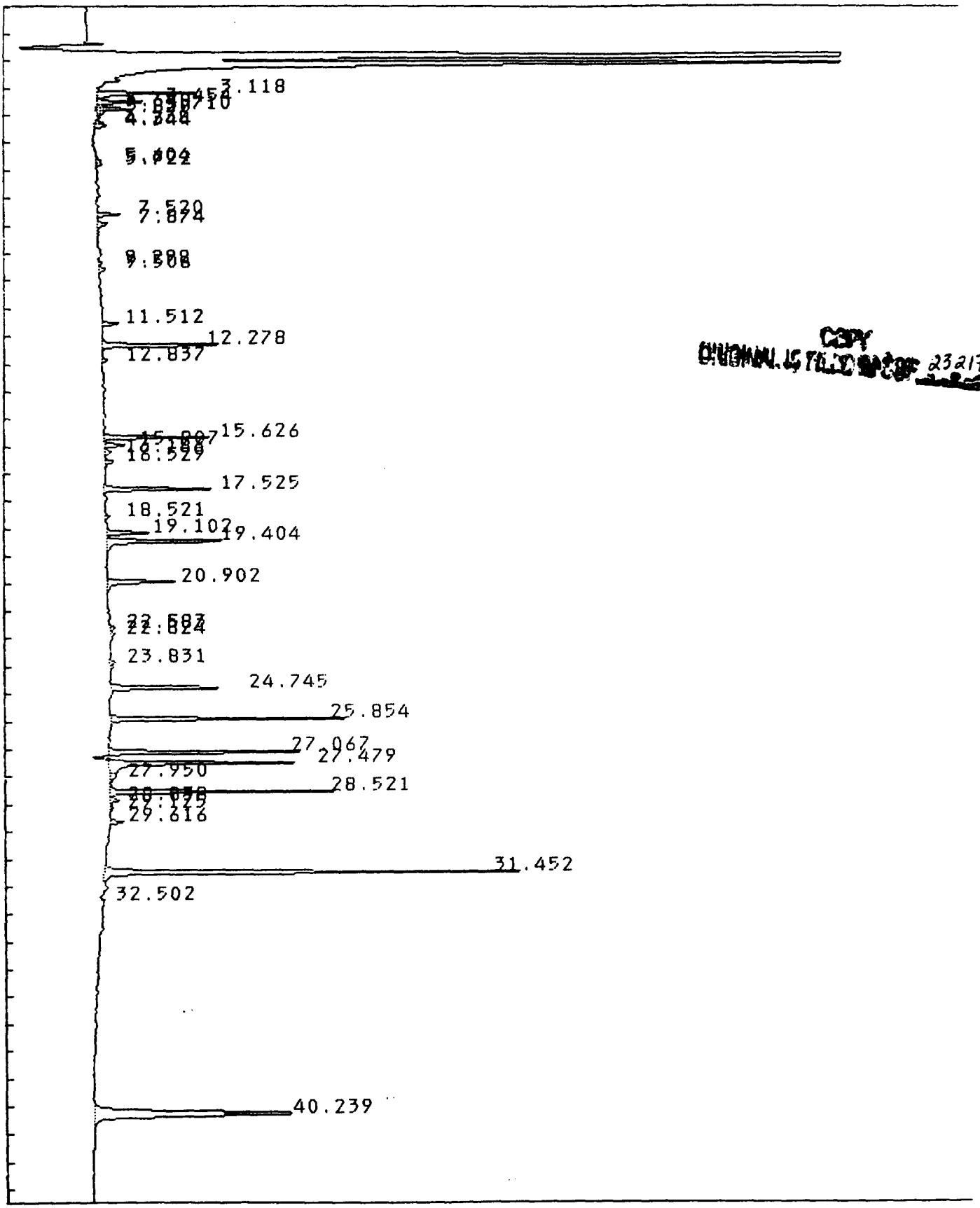
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK67	PBLK67	03/08/95	03/08/95
02	PLCS66	PLCS66	03/08/95	03/08/95
03	CS10	950309801	03/08/95	03/08/95
04	CS10A	950309802	03/08/95	03/08/95
05	CS15	950309803	03/08/95	03/08/95
06	CS15A	950309804	03/08/95	03/08/95
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				

IEA Pesticide Standard Report

UserModifiedFile

2 2 0833

Sample Name : INDA TEST Inj on 1823 27Feb1995
R lt File : /RESULT/P1022295_045.RES INSTRUMENT : HP5890P1
C. mn Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



COPY

IEA Pesticide Standard Report

UserModifiedFile

Sample Name : INDA TEST Report No : 15.020
Result File : /RESULT/P1022295_045.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 1823 27Feb1995
Sequence File : /SEQUENCE/P1022295CLP.SEQ
Subseq/Sample : 3/ 35 Bottle no. : 35

% Dil-Fact
100.00

Run Status : RunStatusOK
SpecialInteg

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	3.12		0.000	35517	BV	0.00000	
2	3.45		0.000	14996	VV	0.00000	
3	3.64		0.000	2774	VV	0.00000	
4	3.71		0.000	11650	VV	0.00000	
5	3.83		0.000	2578	VV	0.00000	
6	4.24		0.000	3015	VV	0.00000	
7	4.34		0.000	4131	VV	0.00000	
8	5.60		0.000	2487	BV	0.00000	
9	5.72		0.000	2657	VV	0.00000	
[illegible]	7.52		0.000	8180	BV	0.00000	
[illegible]	7.87		0.000	5973	PV	0.00000	
12	9.30		0.000	2068	BV	0.00000	
13	9.51		0.000	3746	VB	0.00000	
14	11.51		0.000	6448	BB	0.00000	
15	12.28	12.25	0.000	44945	BB	.09032	Tetrachloro-m-xylene
16	12.84		0.000	2042	BB	0.00000	
17	15.63	15.61	0.000	37548	BV	.08718	alpha-BHC
18	15.91		0.000	9250	VV	0.00000	
19	16.19		0.000	3709	VV	0.00000	
20	16.53		0.000	4114	VV	0.00000	
21	17.52	17.51	0.000	39905	BV	.08913	gamma-BHC (Lindane)
22	18.52		0.000	2229	BV	0.00000	
23	19.10		0.000	16481	BV	0.00000	
24	19.40	19.39	0.000	54077	VV	.09948	Heptachlor
25	20.90	20.94	0.000	32518	BB	~~.27892~~	~~Aldrin~~
26	22.58		0.000	2529	PV	0.00000	
27	22.82		0.000	1505	VV	0.00000	
28	23.83		0.000	2557	BV	0.00000	
29	24.74	24.73	0.000	42877	PV	.09084	Endosulfan I
30	25.85	25.84	0.000	81191	BV	.18403	Dieldrin
31	27.07	27.05	0.000	68228	FF	.18659	Endrin
32	27.48	27.46	0.000	80044	FF	.21747	4,4'-DDD
33	27.95		0.000	5856	FF	0.00000	
34	28.52	28.51	0.000	74262	FF	.18548	4,4'-DDT
[illegible]	28.84		0.000	4656	FF	0.00000	
	29.13		0.000	2129	FF	0.00000	

IEA Pesticide Standard Report

UserModifiedFile

2 2 0855

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
37	29.62		0.000	5071	BV	0.00000	
	31.45	31.44	0.000	172243	BV	1.04219	Methoxychlor
.	32.50		0.000	1154	PV	0.00000	
40	40.24	#40.22	0.000	163395	BB	.19031	Decachlorobiphenyl

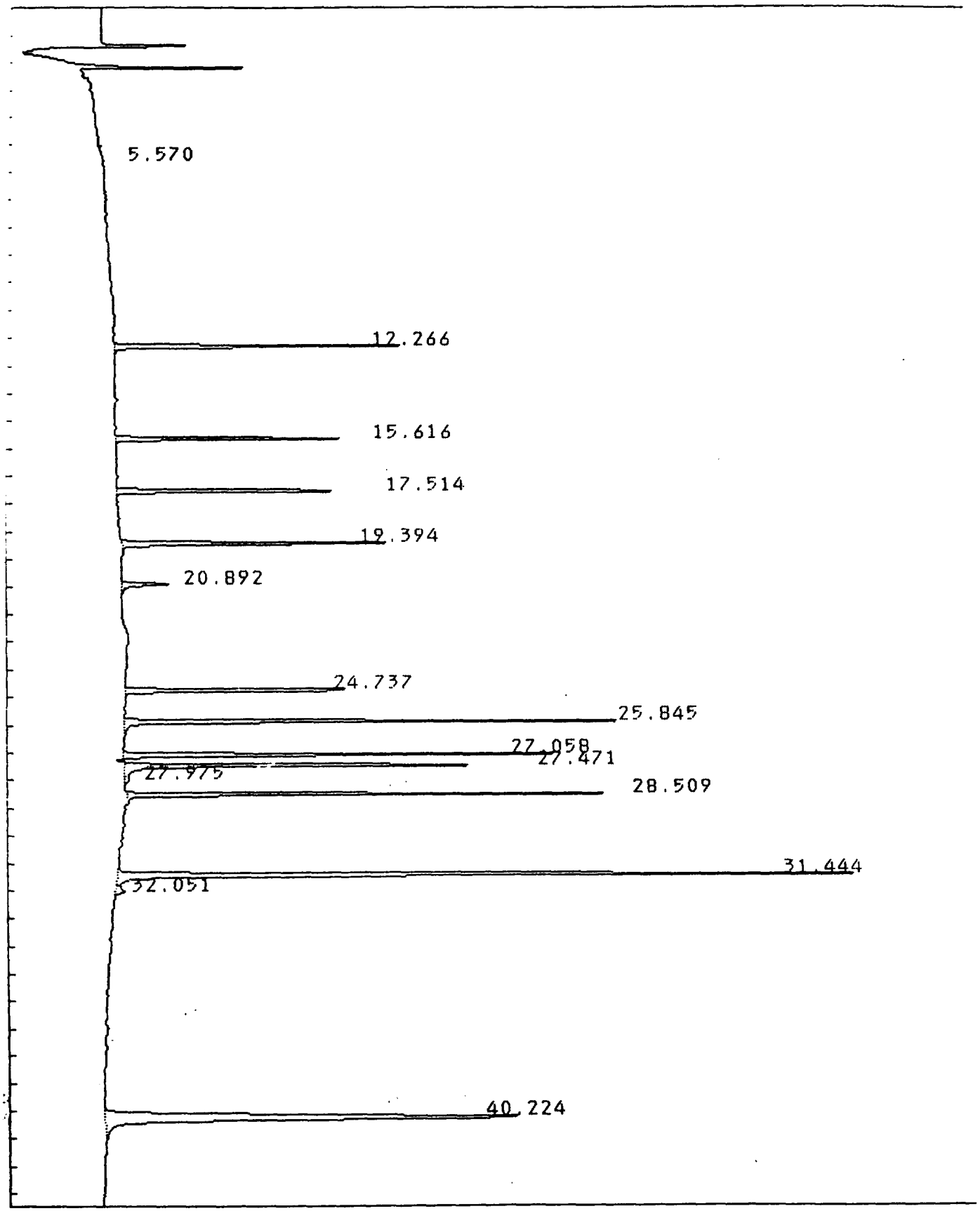
Total Area : 1060734 Total PPB : 2.742

Report Time : 0948 28Feb1995
Method : /METHOD/P1022295FLOR.MTH
Result File : /RESULT/P1022295_045.RES

IEA Pesticide Standard Report 2 2 0833

UserModifiedFile

Sample Name : INDAM Inj on 1634 27Feb1995
Re lt File : /RESULT/P1022295_043.RES INSTRUMENT : HP5890P1
Cc an Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report

UserModifiedFile

2 2 0637

Sample Name : INDAM Report No : 13.020
Result File : /RESULT/P1022295_043.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 1634 27Feb1995
Sequence File : /SEQUENCE/P1022295CLP.SEQ
Subseq/Sample : 3/ 33 Bottle no. : 33

% Dil-Fact
100.00

Run Status : RunStatusOK
SpecialInteg

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	5.57		0.000	1065	BB	0.00000	
2	12.27	12.25	0.000	99525	BB	.20000	Tetrachloro-m-xylene
3	15.62	15.61	0.000	86138	BB	.20000	alpha-BHC
4	17.51	17.51	0.000	89546	BB	.20000	gamma-BHC (Lindane)
5	19.39	19.39	0.000	108713	BV	.20000	Heptachlor
6	20.89	20.94	0.000	~~23317~~	~~BB~~	~~.20000~~	~~Aldrin~~
7	24.74	24.73	0.000	94405	BB	.20000	Endosulfan I
8	25.85	25.84	0.000	176472	BB	.40000	Dieldrin
9	27.06	27.05	0.000	146264	FF	.40000	Endrin
	27.47	27.46	0.000	147226	FF	.40000	4,4'-DDD
	27.97		0.000	4521	FF	0.00000	
12	28.51	28.51	0.000	160155	BV	.40000	4,4'-DDT
13	31.44	31.44	0.000	330541	BV	2.00000	Methoxychlor
14	32.05	32.03	0.000	7124	VB	.40000	Endrin ketone
15	40.22	#40.22	0.000	343426	BB	.40000	Decachlorobiphenyl

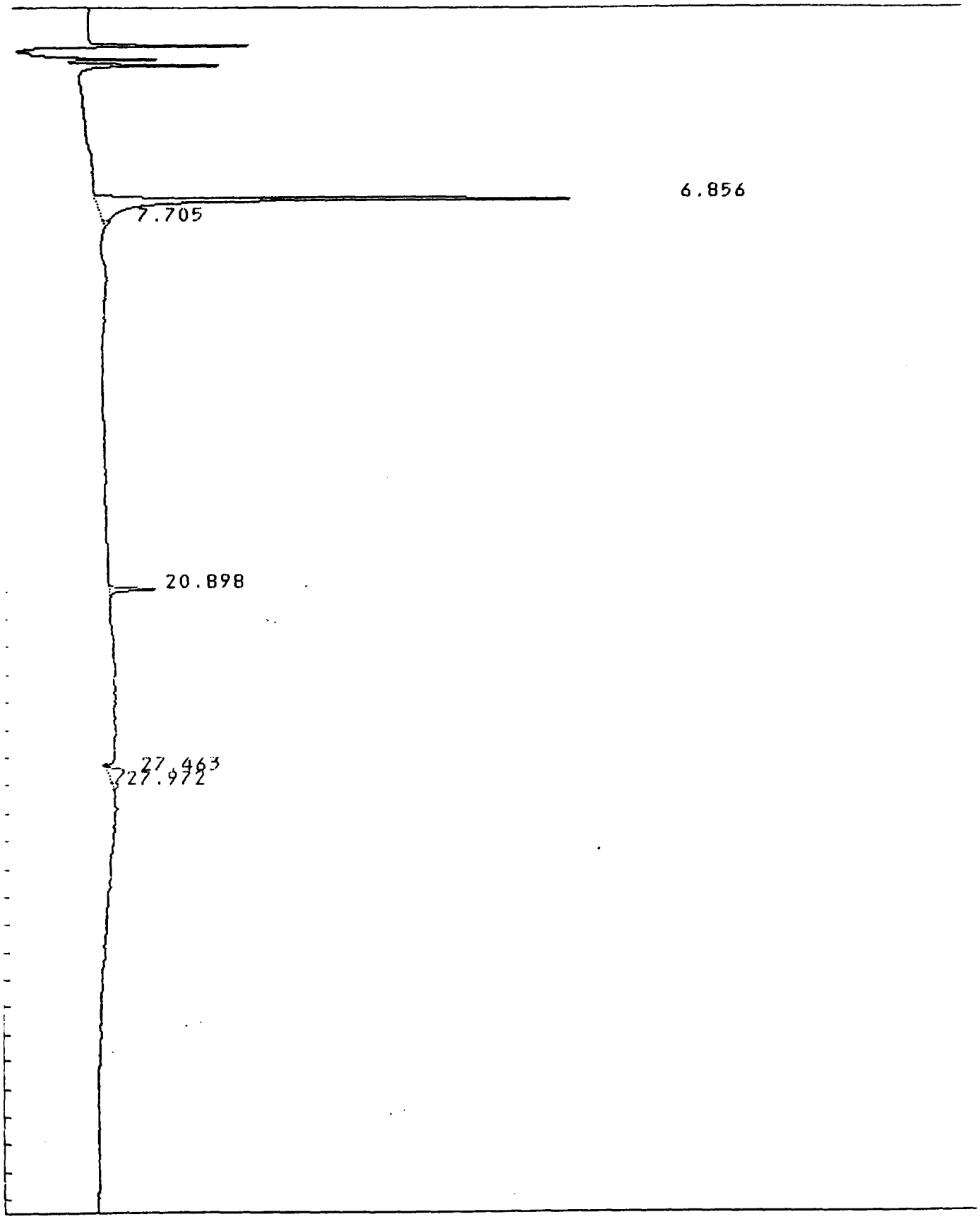
Total Area : 1818439 Total PPB : 5.600

Report Time : 0941 28Feb1995
Method : /METHOD/P1022295FLOR.MTH
Result File : /RESULT/P1022295_043.RES

IEA Pesticide Standard Report

2 2 0833

Sample Name : PHENOL STD Inj on 1728 27Feb1995
Re 't File : /RESULT/P1022295_044.RES INSTRUMENT : HP5890P1
Co n Type : RTX-35 30-Meter,0.53mm ID Inj. Vol. : 1 ul



IEA Pesticide Standard Report 2 2 0839

Sample Name : PHENOL STD Report No : 14.000
Report File : /RESULT/P1022295_044.RES
Column Type : RTX-35 30 Meter,0.53mm ID Inj. Vol. : 1 ul
Instrument : HP5890P1
Calculation : ExternalSTD
Run Time : 43.50 Mins. Injected on 1728 27Feb1995
Sequence File : /SEQUENCE/P1022295CLP.SEQ
Subseq/Sample : 3/ 34 Bottle no. : 34

% Dil-Fact
100.00

Run Status : RunStatusOK
NoReference

Pk#	RT	ID-tm	Peak Width	Area	Code	PPB	Name
1	6.86		.123	275083	BV	0.00000	- 2,4,5-Trichlorophenol
2	7.71		.133	3288	VB	0.00000	
3	20.90	20.94	.122	21771	BB	.04385	~~Aldrin~~ N/A
4	27.46	27.46	.381	22366	BV	.06142	~~4,4'-DDD~~ ⊥
5	27.97		.194	4182	VB	0.00000	

Total Area : 326690 Total PPB : .105

Report Time : 1813 27Feb1995
Method : /METHOD/P1022295CLP.MTH
Result File : /RESULT/P1022295_044.RES

Method: 8240 CLP 624 Other: 8260LC

Matrix: Water/Med Soil

Water Curve: 0303K Soil Curve: _____

GC/MS Volatile Runlog

Instrument-MSD11

EM: 2412

Batch: 9303031 1

Filename	IEA Sample ID.	Case #	Date	Time	ALS#	Init/Final Vol.	DF	Dilution Preparation/Comment	IS	Surr.	Analyst	Rerun
0303KBF1	BFB tune run	/	3/3/91	11:35	1	4ml / 5ml	-	Met 8260	NA →		S	✓
0303K04	VSTD005	/	3/3/91	12:00	1	25ml	—	"C". 691.M	NA →		S	✓
0303K05	VSTD001	/	3/3/91	12:55	1	25ml	-		NA →		S	✓
0303K06	VSTD002	/	3/3/91	14:05	1	25ml	-		NA →		S	✓
0303K07	VSTD010	/	3/3/91	14:44	1	25ml	-		NA →		S	✓
0303K08	VSTD025	/	3/3/91	15:28	1	25ml	-	Met 8260	NA →		S	✓
											S 3/5/91 →	
								CONTINUED ON NEXT PAGE				

Tunes: 1 Surr Fail: ___ IS Fail: ___ Tot Inj: ___ Suc Inj: ___ Billables: ___

Secondary Review By: _____ Date: _____

IEA, Inc. Form# MSL00300.NC

IEA Logbook# MS23D

Method: 8240 CLP 624 Other: 6/91

Matrix: Water/Med Soil

Water Curve: 0303KC Soil Curve: _____

GC/MS Volatile Runlog

Instrument-MSD11

EM: 242

Batch: 95030711

Filename	IEA Sample ID.	Case #	Date	Time	ALS#	Init/Final Vol.	DF	Dilution Preparation/Comment	IS	Surr.	Analyst	Rerun
0307KBF	BFB TUNE Std	/	3/7/95	7:42	1	4ul / 25ml	–	MET 6/91	NA →		Σ	✓
0307K01	VSTD005	/	3/7/95	8:13	1	25ml	–	MET curve	NA →		Σ	✓
0307K02	VBLKKV	/	3/7/95	9:02	1	25ml	STK		IN	IN	Σ	
0307K03	VBLKKV	/	3/7/95	9:49	1	25ml	STK		IN	IN	Σ	✓
0307K04	LCSKV	/	3/7/95	10:29	1	25ml	STK		IN	IN	Σ	✓
0307K05	CS-17 2041-1-13	9503663	3/7/95	11:10	1	25ml	STK	PH=1	IN	IN	Σ	✓
0307K06	CS-20 2041-1-14	↓	3/7/95	11:47	1	25ml	STK	PH=1	IN	IN	Σ	✓
0307K07	CS-23 2041-1-15	↓	3/7/95	12:25	1	25ml	STK	PH=1	IN	IN	Σ	✓
0307K08	CS-24 2041-1-16	↓	3/7/95	13:02	1	25ml	STK	PH=1	IN	IN	Σ	✓

Tunes: 1 Surr Fail: ___ IS Fail: ___ Tot Inj: ___ Suc Inj: ___ Billables: ___

Secondary Review By: _____ Date: _____

IEA, Inc. Form 00300.NC

IEA Logbook# MS23D

2 2 0842

Method: 8240 CLP 624 Other: 6/91

Matrix: Water/Med Soil

Water Curve: 0303KC Soil Curve:_____

GC/MS Volatile Runlog

Instrument-MSD11

EM: [illegible]

Batch: 95-0307 11

Filename	IEA Sample ID.	Case #	Date	Time	ALS#	Init/Final Vol.	DF	Dilution Preparation/Comment	IS	Surr.	Analyst	Rerun
0307K09	CS-25 2041-1-17	9503093	3/7/95	13:57	1	25ml	STR	pH=1	IN	IN	C	✓
0307K10	CS-26 2041-1-18	↓	3/7/95	14:28	1	25ml	STR	pH=1	IN	IN	C	✓
0307K11	CS-27 2041-1-19		3/7/95	15:06	1	25ml	STR	pH=1	IN	IN	C	✓
0307K12	CS-28 2041-1-20		3/7/95	1543	1	25ml	STR	pH=1	IN	IN	C	—
0307K13	CS-29 FB 2041-1(C)-5	9503098	3/7/95	1622	1	25ml	STR	pH=1 Acetone@41	IN	IN	DWC	5/3/95 ✓ ~~2.5X~~
0307K14	~~CS-29 FB~~ DWC 3/7/95 HB 03097 2041-1-21	9503094	3/7/95	1701	1	25ml	STR	pH=1 c/o?	IN	IN	DWC	STR
0307K15	CS-29 FB 2041-1(0)-5	9503098	3/7/95	1738	1	25ml	2.5X	pH=1 confirm	IN	IN	DWC	2.5X
0307K16	INSTRUMENT BLANK	/	3/7/95		1	25ml	STR	—	IN	IN	DWC	✓
0307K17	2041-1(0)-5	9503098	3/7/95		1	25ml	2.5X	pH=1	IN	IN	DWC	✓

Tunes: 1 Surr Fail:___ IS Fail:___ Tot Inj:___ Suc Inj:___ Billables:___

Secondary Review By:_____ Date:_____

IEA, Inc. Form# [illegible]SL00300.NC

IEA Logbook# MS23D

000008

Method: 8240 CLP 624 Other: 6/91

Matrix: Water/Med Soil

Water Curve: 0303KC Soil Curve: _____

GC/MS Volatile Runlog

Instrument-MSD11

EM: 2412

Batch: 950302

Filename	IEA Sample ID.	Case #	Date	Time	ALS#	Init/Final Vol.	DF	Dilution Preparation/Comment	IS	Surr.	Analyst	Rerun
0307VBF	BFB TUNE 50ng	/	3/7/95	2010	1	4ul / 25ml	/	Met CLP	/	/	DWC	✓
0307V01	VSTD050	/	3/7/95	2046	1	25ml	/	Met Curve	/	/	DWC	✓
0307V02	VBLKKW	/	3/7/95	2142	1	25ml	STR	Acetone @ 2.5	IN	IN	DWC	STR
0307V03	VBLKKW	/	3/7/95	2231	1	25ml	STR		IN	IN	DWC	✓
0307V04	HB-03093 2041-1-21	9503094	3/7/95	2309	1	25ml	STR	pH=1	IN	IN	DWC	✓
0307V05	HB-03098 2041-1(0)-21	9503098	3/7/95	2354	1	25ml	STR	pH=1	IN	IN	DWC	STR
0307V06	HB-03098 2041-1(0)-21	9503098	3/8/95 ~~3/7/95~~ DWC	0132	1	25ml	STR	pH=1	IN	IN	DWC	✓ ~~STR~~

Tunes: 1 Surr Fail: ___ IS Fail: ___ Tot Inj: ___ Suc Inj: ___ Billables: ___

Secondary Review By: _____ Date: _____

IEA, Inc. Fc MSL00300.NC

IEA Logbook# MS23D

Organic Stock Standard Log
GC/MS Laboratory

2 2 0844

IEA Standard Number	691018	Date Standard Expires	2/10/95
Date Prepared	1/10/95	Analyst	Ware

Description	Lot #	Initial Concentration	Amount Used	Final Volume	Final Concentration	Comments
Bromochloromethane	13601-67					
AP9008	—	See page	258			
Internal Std	A004298					
Surrogate Std	A001792					
Restek mix #1	—	See page 263				
LCS mix #1	A002270					
LCS mix #2	A002272					

Secondary Review By:_____ Date:_____

IEA, Inc. Form# MSF01000.NC

Organic Working Standard Log
GC/MS Laboratory

2 2 0845

Standard #	Description	Initial Conc.	Amount Used	Final Volume	Final Conc.	Analyst	Date Prepared	Expiration Date
1[illegible]1018A	Internal only	2000 ug/mL	62.5 ul	10 mL	12.5 ppm	Ware	1/10/95	1/17/95
	Surr only	5000 ug/mL	25 ul					
	IS/Surr mix	2000 ug/mL 5000 ug/mL	62.5 ul 25 ul					
	Keytones	5000 ug/mL	40 ul		20 ppm			
	AP9008	2000 ug/mL	25 ul		5 ppm			
	BCM	1000 ug/mL	50 ul					
	LCS mix	2500 ug/mL	50 ul		12.5 ppm 5/21/95			
1[illegible]91018B	Surr Only	5000 ug/L	25 ul	10 ml	12.5 ug/L	[illegible]	1/18/95	1/25/95
	INTERNAL only	2000 ug/L	62.5 ul					
	IS/Surr mix	5000 ug/L 2000 ug/L	25 ul 62.5 ul					
	KETONES	5000 ug/L	40 ul		20 ug/ml			
	AP9009	2000 ug/L	25 ul		5 ug/L			
	BCM	1000 ug/ml	50 ul					
	LCS MIX	2500 ug/L	50 ul		12.5 ug/L			

Comments:

Secondary Review By:_____ Date:_____

64 of 300
book# MS24A

IEA Inc. Form# MSF01000.NC

Page 265
IEA Logbook# M

8 006

Organic Stock Standard Log
GC/MS Laboratory

IEA Standard Number	MS025	Date Standard Expires	2-11-95
Date Prepared	1-11-95	Analyst	S.M.

Description	Lot #	Initial Concentration	Amount Used	Final Volume	Final Concentration	Comments
MATRIX SPIKE	A 004497	2500ug/L	—	—	—	
			S.M. 2/7/95			

Secondary Review By:_____ Date:_____

IEA, Inc. Form# MSF01000.NC

Organic Working Standard Log
GC/MS Laboratory

#	Description	Initial Conc.	Amount Used	Final Volume	Final Conc.	Analyst	Date Prepared	Expiration Date
iA	Matrix spike	2500 ug/ml	100ml	10 mL	25 ug/ml	S	1-11-95	1-18-95
B	↓	↓	↓	↓	↓	↓	1/11/95	1-23-95
5C	↓	↓	↓	↓	↓	↓	1/22/95	1/29/95
5D	↓	↓	↓	↓	↓	↓	1/30/95	2/6/95
25E	↓	↓	↓	↓	↓	↓	2/4/95	2/11/95
								2/7/95

Secondary Review By:_____ Date:_____

Form# MSF01000.NC

2 2 0843

Organic Stock Standard Log
GC/MS Laboratory

IEA Standard Number	691019	Date Standard Expires	2-~~20~~ 21-92
Date Prepared	1-~~19~~ 21-92 5/21/92	Analyst	[illegible]

Description	Lot #	Initial Concentration	Amount Used	Final Volume	Final Concentration	Comments
Bromochloromethane	136-01-03					
AP 9009	see 272					
IS	A004296					
Surrogate	A005792					
Restek mix #1	A003827					
LCS mix #1	A002270					
↓ #2	A02272					

Secondary Review By:_____ Date:_____

IEA, Inc. Form# MSF01000.NC

8 009

Organic Working Standard Log
GC/MS Laboratory

2 2 0549

Standard #	Description	Initial Conc.	Amount Used	Final Volume	Final Conc.	Analyst	Date Prepared	Expiration Date
691019A	IS only	2000 ug/ml	62.5 ml	10 ml	12.5 ug/ml	[illegible]	1/21/95	1/28/95
	Surr only	5000 ug/ml	25 ml					
	IS/Surr mix	2000 ug/ml 5000 ug/ml	62.5 ml 25 ml					
	KETONES	5000 ug/ml	40 ml		20 ug/ml			
	BCM	1000 ug/ml	50 ml		5 ug/ml			
	LCS mix	2500 ug/ml	50 ml		12.5 ug/ml			
	AP9009	2000 ug/ml	25 ml		5 ug/ml			
691019B	IS only	2000 ug/ml	62.5 ml	10 ml	12.5 ug/ml	[illegible]	1/27/95	2/4/95
	Surr only	5000 ug/ml	25 ml					
	IS/Surr mix	2000 ug/ml 5000 ug/ml	62.5 ml 25 ml					
	KETONES	5000 ug/ml	40 ml		20 ug/ml			
	BCM	1000 ug/ml	50 ml		5 ug/ml			
	LCS mix 1 & 2	2500 ug/ml	50 ml		12.5 ug/ml			
	AP9009	2000 ug/ml	25 ml		5 ug/ml			
691019C	SR ONLY	5000 ug/ml	25 µl	10 mL	12.5 ppm	[illegible]	2/6/95	2/13/95
691019D	SR only	5000 ppm	25 µl	10 m	12.5 ppm	[illegible]	2/14/95	2/21/95

Comments:

Secondary Review By:_____ Date:_____

Organic Stock Standard Log
GC/MS Laboratory

2 2 0850

IEA Standard Number	IS044	Date Standard Expires	2-28-95
Date Prepared	1-30-95	Analyst	S.M.

Description	Lot #	Initial Concentration	Amount Used	Final Volume	Final Concentration	Comments
RESTEK IS mix	A003494					
RESTEK Surr mix	A003739					

Secondary Review By:_____ Date:_____

IEA, Inc. Form# MSF01000.NC

IEA Logbook# MS244

8 011

Organic Working Standard Log
GC/MS Laboratory

2 2 0851

Standard #	Description	Initial Conc.	Amount Used	Final Volume	Final Conc.	Analyst	Date Prepared	Expiration Date
IS044 A	IS/Surr mix	2500 g/ml	100 ml	10 ml	25 g/ml	[illegible]	1-30-95	2-6-95
IS044 B	IS only	2500 g/ml	100 ml	10 ml	25 g/ml	[illegible]	2/1/95	2/8/95
IS044 C	Surr only	↓	↓	↓	↓	↓	↓	↓
IS044 D	IS ONLY	2500 ppm	100 µl	10 µl	25 ppm	[illegible]	2/6/95	2/13/95
↓ E	SR ONLY	↓	100 µl ~~200 µl~~	10 µl ~~25 µl~~	50 ppm	↓	↓	↓

S 2/1/95

Comments:

Secondary Review By:_____ Date:_____

300
24A

IEA, Inc. Form# MSF01000.NC

Page 277 of 300
IEA Logbook# MS24A

8 012

Method: 8270 CLP 625 Other:____

Injection Volume: 2µl

Curve: CLP____ 8270____ 625____

GC/MS Semi-Volatile Runlog

Instrument-MSD6

EM: 1976

Batch: 9503076

R	Filename	IEA Sample ID.	A	CLP ID.#	Case #	Date	Time	DF	Dilution Preparation/Comment	IS. OK Y	IS. OK N	Surr.OK Y	Surr.OK N	Analyst
	03076DFT	DFTPP	✓	8270/625		3/7/95	0807	—	SVC/p 294	N/A				
	01a	SSTD050 60	✓	8270			0824	—	SVC/p 310-D	N/A				
	02	SVB 242	✓	625			1036	—		✓		✓		
	03	02448 01 RE	✓				1121	—	acetone low, dorfine	✓			✓	
	04	SSTD040	✓	6/41			1207	—	SVC/p 310-E	N/A				
	05	SSTD010	✓				1253	—						
	06	SSTD020	✓				1340	—						
	07	SSTD 100	✓				1426	—						
	08	SSTD 160	✓				1513	—						
OK	09	02 50201	✓	8270			1613	100		✓		Dilu		
OK	10	02 50202	✓				1658	100		✓		Dilu		
	11	02 50212	✓				1744	100		✓		Dilu		
	12	02 50213	✓				1829	100		✓		Dilu		
OK	13	02 502 05	✓				1914	50	OK SPB 2/7/95	✓		Dilu		
	14	02 502 03	✓				1959	50	Corrupted File ~~Harddisk Full~~					
	Ø3Ø76 15	Ø25Ø8Ø1	✓	625			2044	3X		✓		✓		Burrows
	Ø3Ø76 16	$VB 239B	✓				2248			✓		✓		
	Ø3Ø7617	Ø2517Ø1	✓				2333		acid SS's low - 625 DN only	✓		✓		
	Ø3Ø7618	Ø2517Ø2	✓			3/8/95	0014			✓		✓		
	Ø3Ø7619	Ø2517Ø3	✓				0104			✓		✓		

Primary ✓ Alter Pull: ___ In Pull: ___ Out Int: ___ Alter Int: ___ Billables: ___

Secondary Review By: D. Moore Date: 3/08/95

IEA, Inc. Proprietary and Confidential

IEA Logbook# MR1211

Method: 8270 CLP 625 Other: 0853 2 2

GC/MS Semi-Volatile Runlog

Injection Volume: 2µl

Instrument-MSD6

EM: 1976

Curve: CLP_____ 8270_____ 625_____

Batch: 9503086

R	Filename	IEA Sample ID.	A	CLP ID.#	Case #	Date	Time	DF	Dilution Preparation/Comment	IS. OK Y	IS. OK N	Surr.OK Y	Surr.OK N	Analyst
	03086 DFT	DFTPD	✓	8270/CLP		3/8/95	0931	—	svc/p 294	N/A				GSS
	014 ~~01~~ 3/8/95	SSTD0506P	✓	8270			0948	—	svc/p 310-C	N/A				
	02	SSTD040 ~~SSTD040~~ 3/8/95	✓	6/91			1033	—	svc/p 310-E	N/A				
	03	SBLK27	✓		2041-0016		1137	—		✓		✓		
	04	030980	✓				1223	—		✓		✓		
	05	0309802	✓				01312	—		✓		✓		
	06	0309803	✓				1404	—		✓		✓		
	07	0309804	✓				1450	—		✓		✓		
	08	SLCS027	✓				1537	—		✓		—		
	09	GPC blank		EPA				—						

IS Fail:___ Tot Inj:___ Suc Inj:___ Billables:___

Secondary Review By: D Mann Date: 3/08/95

IEA Logbook# MS12D

IEA, Inc. F NC

STANDARDS PREPARATION LOGBOOK

Standard Name: DFTPP (25 ug/ml)
Location: R11A

2 2 0054

Lot Code #: SVCU294
Solvent Used:
Volume of Solvent Used:

Prepared By:
Date Prepared:
Expiration Date:

Stock Name	Vendor	Stock Lot # / Lot Code #	Logbook / Page #	Stock Conc (ug/ml)	Amt Added	Final Vol
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

1/18/95

Prepared By: D. Morse
Date Prepared: 1/06/95
Expiration Date: 1/06/96

Standard	Stock Lot #	(µl) Stock Volume	Stock Conc (ug/ml)	(ml) Solvent Volume	(ug/ml) Final Conc	(ml) Final Vol
1. SV Tuning mix	A003997	1000	2500	—	25	100
2. CH_2Cl_2	BH969	—	—	99	—	6
3.						
4.						
5.						
9.						

Cat.#31001 SV Tuning Mix
Lot# A003997 Exp. Date 8/97 Store @ 4 C
2500 ug/ml in 1ml methylene chloride
FOR LABORATORY USE ONLY
Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823

CALCULATIONS

Comments:

Secondary Review By: C. Smith Date: 1/18/95

IEA, Inc. Form# QAL01300.NC

IEA Logbook# QA127A

STANDARDS PREPARATION LOGBOOK

Standard Name: $V Internal Standard 2 2 0355
Location: R11

Lot Code #: SVCLP313
Solvent Used: MeCl2
Volume of Solvent Used: ~1ml

Prepared By: Peter P. Bunor
Date Prepared: 2/22/95
Expiration Date: 2/22/96

Stock Name	Vendor	Stock Lot # / Lot Code #	Logbook / Page #	Stock Conc (ug/ml)	(ml) Amt Added	(ml) Final Vol
1. $V.Int.Std.Mix	Restek	A004579	—	4000	1000	1000
2. MeCl2	Baxter	31786	—	—	1000	2000
3.						
4.						
5.						
6.						
7.						
8.						
9.			2/22/95 SPB			
10.						

Cat.#31006 SV Internal Standard Mix
Lot# A004579 Exp. Date 12/96 Store @ 4 C
4000 ug/ml ea. in 1ml methylene chloride
FOR LABORATORY USE ONLY
Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823

Prepared By:
Date Prepared:
Expiration Date:

Standard	Stock Lot #	Stock Volume	Stock Conc (ug/ml)	Solvent Volume	Final Conc	Final Vol
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.			SPB 2/22/95			
9.						

CALCULATIONS

Comments:

Secondary Review By: K. Hinshaw Date: 3/8/95

IEA, Inc. Form# QAL01300.NC

IEA Logbook# QA127A

8 016

Standard Name: SVCLP 6/91 Initial Calibration
Location: R11

2 2 0856

Lot Code #: svclp ~~316 A~~ 310-E 3/7/95 ESS
Solvent Used: CH_2Cl_2
Volume of Solvent Used:

Prepared By:
Date Prepared:
Expiration Date:

Stock Name	Vendor	Stock Lot # / Lot Code #	Logbook / Page #	Stock Conc (ug/ml)	Amt Added	Final Vol
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

Prepared By: S Smith
Date Prepared: 3/7/95
Expiration Date: 4/7/95

Standard	Stock Lot #	Stock Volume	Stock Conc (ug/ml)	Solvent Volume	Final Conc	Final Vol
1. SSTD040	svclp310	100	200	—	20	1.0#
2.	043-195	30	2000	870	60	↓
3. SSTD 010	svclp310	25	200	—	5	1.0#
4.	043-195	7.5	2000	967.5	15	↓
5. SSTD 020	svclp310	50	200	—	10	1.0#
6.	043-195	20	2000	930	40	↓
7. SSTD 100	svclp310	250	200	—	50	1.0#
8.	043-195	25	2000	725	50	↓
9. SSTD160	svclp310	400	2000	—	80	1.0#
	043-195	20	2000	580	40	↓

3/8/95 expiration date 3/14/95 ESS

CALCULATIONS

10 µl of IS (svclp 313) added to each 1.0 ml standard

Comments:

Secondary Review By: K Hinsban Date: 3/8/95

IEA, Inc. Form# QAL01300.NC

IEA Logbook# QA127A

8 017

Standard Name: SWUP224
Location: R17

2 2 0857

Lot Code #: BH544
Solvent Used: CH3OH (B-Ach B+J)
Volume of Solvent Used: 48 mls

Prepared By: D. Mare 6-14-94
Date Prepared: 6-14-94
Expiration Date: 6-14-95

Stock Name	Vendor	Stock Lot # / Lot Code #	Logbook / Page #	Stock Conc (ug/ml)	Amt Added	Final Vol
1. ~~L/C B/N LAB CONTROL SAMPLE~~	RESTEK	A003250	-			
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

6-14-94

Prepared By: D. Mare
Date Prepared: 6-14-94
Expiration Date: 6-14-95

Standard	Stock Lot #	Stock Volume	Stock Conc (ug/ml)	Solvent Volume	Final Conc	Final Vol
1. L/C B/N LAB CONTROL SAMPLE	A003250	1.0 ml	1000-2000	—	20-40	50 ml
2. L/C ~~B/N~~ ACID LAB CONTROL SAMPLE	A002252	1.0 ml	2000	~~48 mls~~	40	↓
3. Methanol B	BH544	←	—	48 mls	—	—
4.						
5.						
6.						
7.						
8.						
9.						

6-14-94

Cat.#31241 L/C B/N Lab Control Sample
Lot# A 003250 Date Made 2/94 Store @ 4 C
1000-2000 ug/ml in 1ml methylene chloride/methanol (6:1)
FOR LABORATORY USE ONLY
Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823

Cat.#31212 L/C Acid Lab Control Sample
Lot# A 002252 Date Made 4/93 Store @ 4 C
2000 ug/ml ea. in 1ml methanol
FOR LABORATORY USE ONLY
Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823

Secondary Review By: [signature] Date: 6/20/94

IEA, Inc. Form# QAL01300.NC

IEA Logbook# QA127

8 018

STANDARDS PREPARATION LOGBOOK

Standard Name: 6/91 BNA SURROGATE SPIKING SOLUTION (40 µg/ml)
2,4,6 TBP (120 µg/ml)
Location: R17

Lot Code #: SVCLP263
Solvent Used: CH3OH
Volume of Solvent Used: 2 94.7 ml

Prepared By: D. Moore 2 2
Date Prepared: 10.20.94
Expiration Date: 10.20.96

0858

Stock Name	Vendor	Stock Lot # / Lot Code #	Logbook / Page #	Stock Conc (ug/ml)	Amt Added (µl)	Final Vol (ml)
1. Acid Sur mix (3/90)	Restek	A003568	2	7500	533	100
2. B/N Sur mix (3/90)	Restek	A004194	2	5000	800	↓
3. 2,4,6 Tribromophenol	Supelco	LA38713	2	20000	4000	↓
4. CH3OH	Burdick (BOJ)	BH460		—	194667	
5.						
6.						
7.						
8.						
9.						
10.						

Prepared By:
Date Prepared:
Expiration Date:

Standard	Stock Lot #	Stock Volume	Stock Conc (ug/ml)	Solvent Volume	Final Conc	Final Vol
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.				D 10-20-94		

CALCULATIONS

Comments:

Secondary Review By: C. Stu[illegible] Date: 11/14/94

IEA, Inc. Form# QAL01300.NC

IEA Logbook# QA127

8 019

Cat.#31083 Acid Surrogate Mix (3/90)
Lot# A 003868 Exp. Date 7/96 Store @ 4 C
7500 ug/ml ea. in 5ml methanol
FOR LABORATORY USE ONLY
Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823

Cat.#31082 B/N Surrogate Standard Mix (3/90)
Lot# A 004194 Exp. Date 9/97 Store @ 4 C
5000 ug/ml ea. in 5ml methylene chloride
FOR LABORATORY USE ONLY
Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823

SUPELCO, INC. • Supelco Park • Bellefonte, PA 16823-0048 USA • Phone (814) 359-3441

2,4,6-Tribromophenol
1 x 1ml
2000ug/ml in methanol

Cat no 4-8084
Storage-REFRIGERATE
Lot no-LA38713
Mfg Date SEP-93
Exp date JUN-95

SUPELCO, INC. • Supelco Park • Bellefonte, PA 16823-0048 USA • Phone (814) 359-34

2,4,6-Tribromophenol
1 x 1ml
2000ug/ml in methanol

Cat no 4-8084
Storage-REFRIGERATE
Lot no-LA38713
Mfg Date SEP-93
Exp date JUN-95

FOR LABORATORY USE ONLY. NOT FOR DRUG, HOUSEHOLD OR OTHER USES.

SUPELCO, INC. • Supelco Park • Bellefonte, PA 16823-0048 USA • Phone (814) 359-3441

2,4,6-Tribromophenol
1 x 1ml
2000ug/ml in methanol

Cat no 4-8084
Storage-REFRIGERATE
Lot no-LA38713
Mfg Date SEP-93
Exp date JUN-95

SUPELCO, INC. • Supelco Park • Bellefonte, PA 16823-0048 USA • Phone (814) 359-3441

2,4,6-Tribromophenol
1 x 1ml
2000ug/ml in methanol

Cat no 4-8084
Storage-REFRIGERATE
Lot no-LA38713
Mfg Date SEP-93
Exp date JUN-95

FOR LABORATORY USE ONLY. NOT FOR DRUG, HOUSEHOLD OR OTHER USES.

DANGER-TOXIC-MAY BE FATAL IF SWALLOWED
DANGER-EXTREMELY FLAMMABLE
May cause headache, nausea, blindness.

SUPELCO, INC. • Supelco Park • Bellefonte, PA 16823-0048 USA • Phone (814) 359-3441

AccuStandard Inc.
25 Science Park
New Haven, CT 06511

CERTIFICATE OF PRODUCT DATA

2 2 0860

PRODUCT: S-1127
DESCRIPTION: Custom Mix
LOT #: 043-195
SOLVENT: Methylene chloride

EXPIRATION: On-going Stability Program

Component	CAS #	Purity % (GC/FID)	Conc. # µg/mL
2,4-Dinitrophenol	51-28-5	97.6	2048 *
2,4,5-Trichlorophenol	95-95-4	100	2004
2-Nitroaniline	88-74-4	99.8	2000
3-Nitroaniline	99-09-2	98.5	2020
4-Nitroaniline	100-01-6	99.1	2012
4-Nitrophenol	100-02-7	99.9	2008
4,6-Dinitro-2-methylphenol	534-52-1	98.0	2004
Pentachlorophenol	87-86-5	99.0	2008
2,4,6-Tribromophenol	118-79-6	100	2004

All weights are traceable through National Bureau of Standards Test No. 731/243669 's'

* Weight compensated to 100% purity

Certified by _____ Certified by _____

This product was manufactured to meet the quality system requirements of ISO 9001

8 02i