UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

Pollution Cleanup Division

MEMORANDUM

Date: 5-21-1996

Subject: Contract Laboratory Program Data Review

From: for Melvin L. Ritter, ESAT RPO, 6MD-HC

To: B. Canellas , 6SF-RA

Site: OLD BRAZOS FORGE

Case#: 24517

SDG#: FE-R43

The EPA Region 6 Houston Branch ESAT data validation team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review and assessment report for this case.

The data package was found to be:

(X) Acceptable: No major problems with data package.

( ) Provisional: Use of data requires caution.
Data is acceptable for Regional use. Problems are noted in the review report.

( ) Unacceptable: Some or all of data should not be used.
Problems are noted in the review report.

Questions regarding the data review report can be addressed to me.

Attachments

cc: R. Flores, Region 6 CLP/TPO
M. El-feky, Region 6 Data Coordinator
Files (2)

961828

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USEPA REGION: VI

ORGANIC REGIONAL ACCEPTANCE/REJECTION/REDUCED VALUE RECOMMENDATION FORM

LAB CODE: AATSLA	CASE NO.: 24517	SDG NO.: FER43
SITE NAME: OLD BRAZOS FORGE	NUMBER OF SAMPLES: 8	

FORM DUE DATE: 06/18/96

SDG MAILDATE: 05/03/96

PART I. DATA ACCEPTANCE OR REJECTION

INSTRUCTIONS: EPA REGIONS MUST ACCEPT OR REJECT DATA WITHIN 30 DAYS. IF DATA ARE BEING REJECTED, THIS FORM MUST BE ACCOMPANIED BY 1.) A SIGNED MEMO FROM THE REGIONAL OFFICIAL DESCRIBING THE CONTRACTUAL REASONS FOR REJECTION. ATTACH ALL RELATED DOCUMENTS (DATA REVIEWS,TELEPHONE LOGS, ETC.), 2.) ALL REJECTED DATA.

A. FULL DATA ACCEPTANCE OR REJECTION
CHECK ONE OF THE FOLLOWING IF YOU FULLY ACCEPT OR FULLY REJECT ALL SAMPLES IN THIS SDG.

✓ ACCEPT ALL ____ REJECT ALL

B. REJECTION OF ALL SAMPLES FOR A PARTICULAR FRACTION
CHECK ONE OF THE FOLLOWING IF YOU FULLY REJECT ALL SAMPLES IN A PARTICULAR FRACTION IN THIS SDG. ALL FRACTIONS NOT MARKED AS REJECTED ARE ACCEPTED.

REJECT ALL: ____ VOA ____ BNA ____ PEST

C. REJECTION AT THE SAMPLE AND FRACTIONAL LEVEL
CHECK THE FOLLOWING TO REJECT SAMPLES AT THE SAMPLE/FRACTIONAL LEVEL AND COMPLETE THE REVERSE SIDE OF THIS FORM.

____ PARTIAL ACCEPTANCE AND REJECTION BY SAMPLE/FRACTION

PART II. REDUCED VALUE

INSTRUCTIONS: REGION RECOMMENDS REDUCED VALUE AND RETAINS THE DATA. FOR A REDUCED VALUE TO BE PROCESSED, THIS FORM MUST BE ACCOMPANIED BY A SIGNED MEMO FROM THE REGIONAL OFFICIAL CITING THE CONTRACTUAL NON-COMPLIANCE; THE DOLLAR AMOUNT FOR REDUCED VALUE; AND A WRITTEN JUSTIFICATION (NARRATIVE) OF HOW SAMPLE WORTH WAS DETERMINED FOR EACH AFFECTED SAMPLE. ATTACH ALL RELATED DOCUMENTS (DATA REVIEWS, TELEPHONE LOGS, ETC.)

CHECK ONE OF THE FOLLOWING:

✓ NO REDUCED VALUE ____ REDUCED VALUE (COMPLETE REVERSE SIDE)

IDENTIFY THE SAMPLES/FRACTIONS THAT ARE RECOMMENDED FOR REDUCED VALUE ON THE REVERSE SIDE OF THIS FORM.

THIS FORM CANNOT BE PROCEESSED WITHOUT A SIGNATURE

NAME OF REGIONAL OFFICIAL: MAHMOUD ELFEKY

SIGNATURE: M. Elfeky DATE: 5-21-96

SEND THIS FORM TO: CLASS C/O DYNCORP
INVOICE PROCESSING & CALCULATION GROUP
300 NORTH LEE STREET, ALEXANDRIA, VA 22314

SEE LIST OF SAMPLES ON REVERSE SIDE

LAB CODE: AATSLA	CASE NO.: 24517	SDG NO.: FER43

"Y" INDICATES THE SAMPLE WAS ANALYZED FOR THAT FRACTION AND IS BILLABLE
"NP" INDICATES THE SAMPLE WAS ANALYZED FOR THAT FRACTION AND IS NOT BILLABLE
A BLANK CELL INDICATES THE SAMPLE WAS NOT ANALYZED

PART III. PARTIAL ACCEPTANCE AND REJECTION BY SAMPLE

ENTER AN "X" IN THE BLOCK TO THE RIGHT OF THE "Y" FOR THE FRACTION RECOMMENDED FOR REJECTION
ENTER A "D" IN THE BLOCK TO THE RIGHT OF THE "Y" FOR THE FRACTION RECOMMENDED FOR REDUCED VALUE.
ALL SAMPLES THAT ARE NOT MARKED WITH AN "X" OR A "D" ARE ACCEPTED.

	FRACTIONS ANALYZED					
SAMPLE	VOA		BNA		PES	
FER43	Y		Y		Y	
FER43MS	Y		Y		Y	
FER43MSD	Y		Y		Y	
FER57	Y		Y		Y	
FER58	Y		Y		Y	
FER61	Y		Y		Y	
FER62	Y		Y		Y	
FES98	Y					

LOCKHEED MARTIN ENVIRONMENTAL AND SYSTEMS TECHNOLOGY, INC.
1200 SMITH STREET, SUITE 800
HOUSTON, TX 77002

MEMORANDUM

DATE: May 15, 1996

TO: Dr. Melvin Ritter, ESAT RPO, Region VI

FROM: Dr. Tom C. H. Chiang, ESAT ETM, Region VI

SUBJECT: CLP Data Review

REF: TDF # 6-6240
ESAT # O-1688

Attached is the data review summary for Case # 24517
SDG # FER43
Site OLD BRAZOS FORGE

COMMENTS:

I. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The data package was contractually compliant as determined by the hard copy data review. CCS reported contractually non-compliant %RSD's for the Pest/PCB surrogate calibration factors. The hard copy review did not confirm the outlying %RSD's.

II. TECHNICAL/USABILITY ASSESSMENT OF THE DATA PACKAGE

A total of 658 results were reviewed for this data package. No data were qualified, so the data package is technically acceptable.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

ORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 24517 SITE OLD BRAZOS FORGE
LABORATORY AATSLA NO. OF SAMPLES 6
CONTRACT# 68-D5-0023 MATRIX Water
SDG# FER43 REVIEWER (IF NOT ESD) ESAT
SOW# RAS SOW OLM03.2 REVIEWER'S NAME Chris Covington
ACCT# 6TFAJN43 SF# TFAUZZ COMPLETION DATE May 15, 1996

SAMPLE NO.					
	FE-R43	FE-R62			
	FE-R57	FE-S98			
	FE-R58				
	FE-R61				

DATA ASSESSMENT SUMMARY

	VOA	BNA	PEST
1. HOLDING TIMES	O	O	O
2. GC/MS TUNE/INSTR. PERFORM.	O	O	O
3. CALIBRATIONS	O	O	O
4. BLANKS	O	O	O
5. SMC/SURROGATES	O	O	O
6. MATRIX SPIKE/DUPLICATE	O	O	O
7. OTHER QC	O	O	O
8. INTERNAL STANDARDS	O	O	N/A
9. COMPOUND ID/QUANTITATION	O	O	O
10. PERFORMANCE/COMPLETENESS	O	O	O
11. OVERALL ASSESSMENT	O	O	O

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS: None.

AREA OF CONCERN: The laboratory analyzed all VOA samples two days past the technical holding time limit.

NOTABLE PERFORMANCE: The laboratory delivered the data package one day early.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 24517 **SDG** FER43 **SITE** OLD BRAZOS FORGE **LAB** AATSLA

The following is a summary of sample qualifiers used by Region 6 in reporting this CLP data:

No.	Acceptable	Provisional	Unacceptable
VOA	6		
BNA	5		
PEST	5		

COMMENTS: The case consisted of six water samples. Five samples were for complete RAS organics analysis and one for VOA organic analyses. The OTR/COC Record designated samples FE-R61/FE-R62 as the field duplicate pair and sample FE-R43 for MS/MSD analyses. The data package arrived at the Region 1 day early for the contractual 35-day turnaround time. All VOA water samples were analyzed two days past the technical holding time limit.

No TCL analytes were reported above the CRQL's in the samples. All results are acceptable. The technical usability of all reported sample results is appropriately indicated by ESAT's final data qualifiers in the attached Data Summary Tables. An Evidence Audit was conducted for the Complete Sample Delivery Group File (CSF), and the Evidence Inventory Checklist is attached to this report.

1. Holding Times: Acceptable. The VOA samples exceeded the technical holding time limits (40 CFR Part 136) by two days but met the contractual holding time limits. Following the Region 6 guidelines, the reviewer did not qualify results because aromatics were not present in the samples. All BNA and Pest/PCB samples met the contractual and technical holding time criteria.

2. Tuning/Performance: Acceptable. The BFB and DFTPP analyses met GC/MS tuning criteria. The sample analyses were within 12 hours of the respective BFB/DFTPP analyses. The Pest/PCB samples and calibrations were analyzed according to the method guidelines.

3. Calibrations: Acceptable. Target compounds generally met contractual and technical criteria for all fractions.

4. Blanks: Acceptable. The method, storage, and instrument blanks met contractual requirements. The BNA method blank contained the common laboratory contaminant di-n-butylphthalate. Since this contaminant was not detected in the samples, result qualification was unnecessary.

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 24517 **SDG** FER43 **SITE** OLD BRAZOS FORGE **LAB** AATSLA

4. Blanks: (continued)

Field Blank/Rinsate The field blank and rinsate samples were submitted with case 24501 SDG FEM97. The field blank, sample FE-M97, contained α-chlordane and acetone and di-n-butylphthalate. The rinsate, sample FE-M98, contained 2-butanone, acetone, diethylphthalate, butylbenzylphthalate, and bis(2-ethylhexyl)phthalate. Since these contaminants were not reported in the samples for this case/SDG, result qualification was unnecessary.

5. System Monitoring Compounds (SMC)/Surrogates: Acceptable. The SMC and surrogate recoveries met QC criteria for all samples.

6. Matrix Spike/Matrix Spike Duplicate: Acceptable. The 4-nitrophenol, pentachlorophenol, and endrin %REC's and the γ-BHC %RPD exceeded the QC limits for the MS/MSD samples. Since these analytes were not detected in the unspiked samples, no results were qualified. Other MS/MSD results met precision and recovery criteria.

7. Other QC:

Field Duplicate: Acceptable. The field duplicate results were consistent.

8. Internal Standards: Acceptable. The internal standard areas and retention times were within the QC limits for VOA and BNA samples.

9. Compound Identity/Quantitation: Acceptable. No TCL analytes were reported above the CRQL's in the samples. Compound identification and quantitation met contractual guidelines for the analytes below the CRQL's.

10. Performance/Completeness: Acceptable. The data package was complete with minor deficiencies. The laboratory was contacted for correction and resubmission (see attached FAX Record Log).

11. Overall Assessment: Data are acceptable for all samples.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

B This result may be high biased because of laboratory/field contamination. The reported concentration is above 5X or 10X the concentration reported in the method/field blank.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

* Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER43 Reviewer: C.COVINGTON

Laboratory: AATSLA Matrix: WATER Units: ug/L

VOLATILES		FLAG		FLAG		FLAG		FLAG		FLAG		FLAG
EPA SAMPLE NUMBER:	FER43		FER57		FER58		FER61		FER62		FES98	
Chloromethane	10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U	10	U
Vinyl chloride	10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U	10	U
Methylene chloride	3	J	10	U	3	J	5	J	3	J	10	U
Acetone	10	U	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	10	U	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	3	J	10	U	3	J	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethene (total)	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
Carbon tetrachloride	10	U	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	10	U	10	U	10	U	3	J	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U	10	U
Ethylbenzene	10	U	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U	10	U
Xylenes (total)	10	U	10	U	10	U	10	U	10	U	10	U
Sample Volume (mL):	5		5		5		5		5		5	
Dilution Factor:	1		1		1		1		1		1	
Number of TIC's:	0		0		0		0		0		1	

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER43 Reviewer: C.COVINGTON

Laboratory: AATSLA Matrix: WATER Units: ug/L

SEMIVOLATILES	FLAG	FLAG	FLAG	FLAG	FLAG
EPA SAMPLE NUMBER:	FER43	FER57	FER58	FER61	FER62
Phenol	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-chloropropane)	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	25 U	25 U	25 U	25 U	25 U
Acenaphthene	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	10 U	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	25 U	25 U	25 U	25 U	25 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER43 Reviewer: C.COVINGTON

Laboratory: AATSLA Matrix: WATER Units: ug/L

SEMIVOLATILES	FLAG	FLAG	FLAG	FLAG	FLAG
EPA SAMPLE NUMBER:	FER43	FER57	FER58	FER61	FER62
Carbazole	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	10 U
Sample Volume (mL):	1000	1000	1000	1000	1000
Dilution Factor:	1	1	1	1	1
Number of TIC's:	0	1	0	1	1

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER43 Reviewer: C.COVINGTON

Laboratory: AATSLA Matrix: WATER Units: ug/L

PESTICIDES/PCBs		FLAG		FLAG		FLAG		FLAG		FLAG
EPA SAMPLE NUMBER:	FER43		FER57		FER58		FER61		FER62	
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (lindane)	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Sample Volume (mL):	1000		1000		1000		1000		1000	
Dilution Factor:	1		1		1		1		1	

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 24517	SDG No. FER43	SDG Nos. To Follow	SAS No.	Date Rec 05/01/96

EPA Lab ID: AATSLA
Lab Location: Baton Rouge, LA
Region: 6 Audit No.: 24517/FER43
Re_Submitted CSF? Yes _____ No X
Box No(s): 1
COMMENTS:

Item No. Comment

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?	X		
12. Dated?	X		
AIRBILLS/AIRBILL STICKER			
13. Present?	X		
14. Signed?	X		
15. Dated?	X		
SAMPLE TAGS			
16. Does DC-1 list tags as being included?	X		
17. Present?	X		
OTHER DOCUMENTS			
18. Complete?	X		
19. Legible?	X		
20. Original?		X	
20a.If "NO", does the copy indicate where original documents are located?	X		

Audited by: C. A. Covington/Data Reviewer Date 05/13/96
Audited by: _____ _____ Date _____
Audited by: _____ _____ Date _____
Signiture Printed Name/Title

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: _____ Date Entered: _____ Date Reviewed: _____
Entered by: _____ _____
Reviewed by: _____ _____
Signature Printed Name/Title

In Reference to Case No(s):
24517 SDG:FER43 (O-1688)

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
FAX Record Log

Date of FAX: May 15, 1996
Laboratory Name: AATSLA
Lab Contact: Dr. Bagawandoss

Region: 6
Regional Contact: Chris Covington - ESAT

FAX initiated by: _____Laboratory ___X___Region

In reference to data for the following fractions:

VOA BNA PEST/PCB

Summary of Questions/Issues:

A. VOA/BNA

1. Please explain why the time in the "Last Calibration" section of the sample quantitation report does not match that of the continuing calibration associated with the samples.

B. PEST/PCB

1. Please submit the Form 6H for PEM3F (instrument HP3F, column RTX-35) which was omitted from the data package.

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 (OLM03.0, p. B-29), except those containing only replacement pages. Custody seals are required for all CSF resubmission shipments.

FAX COMMUNICATION LOG

Continuation Page 2
Laboratory/Contact AATSLA/Dr. Bagawandoss
In Reference To Case No. 24517 SDG: FER43

Please respond to the above items. Region 6 resubmissions may be included with CCS response or sent separately **within 7 days** to:

Ms. Christy Macdowell
U.S. EPA Region 6 Laboratory
10625 Fallstone Road
Houston, TX 77099

If you have any questions, please contact me at (713) 654-4843.

Signature

5-15-96
Date

Distribution: (1) Lab Copy (2) Region Copy

Lockheed Martin Environmental Systems and Technology
ESAT Region 6

1200 Smith Street, Suite 800, Houston, TX 77002 Tel:(713) 654-4843

FACSIMILE COVER SHEET

Please deliver the following pages to:

Name Dr. Bagawandoss

Firm AATS

City Baton Rouge **State** LA

Telephone (540) 753-8650 **Ext.** _____

Fax Telephone No. (504) 751-1405 **Ext.** _____

Sender:

Name Chris Covington

Date 5-15-96

Total Number of pages including this Cover Sheet 3

If you do not receive all the pages or if any pages are unclear, please call: (713) 654-4843

MESSAGES: Resubmission request for Case 24517 SDG: FER43 (O-1688)

Fax Model No. Xerox Telecopier 7033, Fax No. 713-654-4852

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 000017

EPA SAMPLE NO.

FER43

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2971

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

000024 EPA SAMPLE NO.

FER57

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541004

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2972

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	3	J
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

000031 EPA SAMPLE NO.

FER58

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2973

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET **000038**

EPA SAMPLE NO.

FER61

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541006

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2974

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	3	J
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET **000045**

EPA SAMPLE NO.

FER62

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541007

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2981

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

000052 EPA SAMPLE NO.

FES98

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541008

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2980

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FER43

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77415

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000113 EPA SAMPLE NO.

FER43

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77415

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET **000117**

EPA SAMPLE NO.

FER57

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77418

Level: (low/med) LOW Date Received: 03/28/96 ✓

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96 ✓

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96 ✓

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L ✓	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

✓

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FER57

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77418

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000123

EPA SAMPLE NO.

FER58

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77419

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000124

EPA SAMPLE NO.

FER58

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77419

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000128

EPA SAMPLE NO.

FER61

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77421

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000129 EPA SAMPLE NO.

FER61

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77421

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000134

EPA SAMPLE NO.

FER62

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77422

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000135

EPA SAMPLE NO.

FER62

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77422

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FER43

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 15410_01

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

% Moisture: decanted: (Y/N) Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FER57

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 15410_04

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

% Moisture: decanted: (Y/N) Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000200 EPA SAMPLE NO.

FER58

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 15410_05

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

% Moisture: decanted: (Y/N) Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000205 EPA SAMPLE NO.

FER61

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 15410_06

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

% Moisture: decanted: (Y/N) Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000210 EPA SAMPLE NO.

FER62

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 15410_07

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

% Moisture: decanted: (Y/N) Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Project Code	Account Code	2. Region No.: 6	Sampling Co.: TNRCC	4. Date Shipped: 3/27/96	Carrier: AIRBORNE EXPRESS
Regional Information		Sampler (Name): JOHNNY KENNEDY		Airbill Number: 43433195 73	
Non-Superfund Program		Sampler Signature:		5. Ship To: AATSLA 11950 INDUSTRIPLEX BLVD BATON ROUGE, LA 70809	
Site Name: OLD BRAZOS FORGE		3. Purpose: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD		ATTN: VIRGINIA JONES	
City, State: BRENHAM, TX	Site Spill ID				

6. Matrix (Enter in Column A): 1. Surface Water; 2. Ground Water; 3. Leachate; 4. Field QC; 5. Soil/Sediment; 6. Oil (High only); 7. Waste (High only); 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl; 2. HNO3; 3. NaHSO4; 4. H2SO4; 5. Ice only; 6. Other (Specify in Column D); N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis VOA	BNA	Pest/ PCB	High only ARO/ TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
FER43	2	L	G	5		X	X		6-020571	GW-20	3/26/96 15:16	MFGH 18	J.K.	—
FER43	2	L	G	5	X				6-020564-69	GW-20	3/26/96 15:16	MFGH 18	J.K	—
FER58	2	L	G	5	X				6-020646-47	GW-17	3/26/96 16:21	MFGH 09	J.K.	—
FER57	2	L	G	5	X				6-020651-52	GW-18	3/26/96 15:41	MFGH 08	A.P.	—
FER62	2	L	G	5	X				6-020656-57	GW-19	3/26/96 16:48	MFGH 07	A.P.	—
FER61	2	L	G	5	X				6-020661-62	GW-21	3/26/96 16:36	MFGH 06	A.P.	D(FER62)
FES98	2	L	G	5	X				6-020599-600	FB-02	3/26/96 17:14	—	R.N.	—

Shipment for Case Complete? (Y/N): N

Page: 1 of 1

Sample(s) to be Used for Laboratory QC: FER43

Additional Sampler Signatures: Abigail Powell

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Johnny Kennedy	3/27/96 14:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

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EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-3 REV. 3/93

360349

EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		6	TNRCC	3/27/96	Airborne

Regional Information

Sampler (Name): Johnny Kennedy

Airbill Number: 434331 9470

Non-Superfund Program

Sampler Signature:

5. Ship To: AATSLA
11950 Industriplex Blvd.
Baton Rouge, LA 70809
ATTN: Virginia Jones

Site Name: Old Brazos Forge

3. Purpose*: Lead — [X] SF, [ ] PRP, [ ] ST, [ ] FED; Early Action — [ ] CLEM, [ ] PA, [ ] REM, [ ] RI, [X] SI, [ ] ESI; Long-Term Action — [ ] FS, [ ] RD, [ ] RA, [ ] O&M, [ ] NPLD

City, State: Brenham, TX

Site Spill ID

6. Matrix (Enter in Column A): 1. Surface Water; 2. Ground Water; 3. Leachate; 4. Field QC; 5. Soil/Sediment; 6. Oil (High only); 7. Waste (High only); 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl; 2. HNO3; 3. NaHSO4; 4. H2SO4; 5. Ice only; 6. Other (Specify in Column D); N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only: ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
FER43	2	L	G	5		X	X		6-020570	GW-20	03/26/96 1516	MFGH18	JK	—
FER43	2	L	G	5		X	X		6-020572	GW-20	03/26/96 1518	MFGH18	JK	—

Shipment for Case Complete? (Y/N): N

Page: 1 of 1

Sample(s) to be Used for Laboratory QC: FER43

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	03/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-3 REV. 3/93

360350

EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		6	TNRCC	3/27/96	Airborne

Regional Information

Sampler (Name): Abbi Power

Airbill Number: 434331927 1

Non-Superfund Program

Sampler Signature: Abbi Power

5. Ship To: AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
ATTN: Virginia Jones

Site Name: Old Brazos Forge

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

City, State: Brenham, TX

Site Spill ID

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
FER62	2	L	G	5		X	X		6-020658	GW-19	03/26/96/1648	MFGH07	AP	—
FER61	2	L	G	5		X	X		6-020663	GW-21	03/26/96/1618	MFGH06	AP	D (FER62)

Shipment for Case Complete? (Y/N): N

Page: 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Jerry Hazlewood	3/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-3 REV. 3/93

360352

EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Project Code	Account Code	2. Region No. 6	Sampling Co. TNRCC	4. Date Shipped 3/27/96	Carrier Airborne
Regional Information		Sampler (Name) Johnny Kennedy		Airbill Number 434331937 4	
Non-Superfund Program		Sampler Signature		5. Ship To AATSLA	
Site Name Old Brazos Forge		3. Purpose: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD		11950 Industriplex Blvd. Baton Rouge, LA 70809	
City, State Brenham, TX	Site Spill ID			ATTN: Virginia Jones	

6. Matrix (Enter in Column A): 1. Surface Water; 2. Ground Water; 3. Leachate; 4. Field QC; 5. Soil/Sediment; 6. Oil (High only); 7. Waste (High only); 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl; 2. HNO3; 3. NaHSO4; 4. H2SO4; 5. Ice only; 6. Other (Specify in Column D); N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) / Other:	E RAS Analysis: VOA	BNA	Pest/ PCB	High only ARO/ TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
FER58	2	L	G	5		X	X		6-020648	GW-17	03/26/96 1622	MFGH09	VK	—
FER57	2	L	G	5		X	X		6-020653	GW-18	03/26/96 1549	MFGH08	AP	—

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
N	1 of 1		Abigail Bowles	

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	03/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

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EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

360353

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME American Analytical & Technical Services, Inc.
CITY/STATE Baton Rouge, Louisiana

CASE NO. 24517 SDG NO. FER43 SDG NOS. TO FOLLOW FER94
SAS NO. _____

CONTRACT NO. 68-D5-0023
SOW NO. OLM03.1

All documents delivered in the complete SDG file must be original documents where possible.

		PAGE NOs FROM	TO	CHECK LAB	EPA
1.	Inventory Sheet (Form DC-2) (Do not number)				
2.	SDG Case Narrative	1	2		
3.	SDG Cover Sheet/Traffic Report	3	10		
4.	Volatiles Data				
a.	QC Summary				
	System Monitoring Compound Summary (Form II VOA)	11	11		
	Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	12	12		
	Method Blank Summary (Form IV VOA)	13	13		
	GC/MS Instrument Performance Check (Form V VOA)	14	15		
	Internal Standard Area and RT Summary (Form VIII VOA)	16	16		
b.	Sample Data	17	56		
	TCL Results - (Form I VOA)				
	Tentatively Identified Compounds (Form I VOA-TIC)				
	Reconstructed total ion chromatograms (RIC) for each sample				
	For each sample:				
	Raw spectra and background-subtracted mass spectra of target compounds identified				
	Quantitation reports				
	Mass spectra of all reported TICs with three best library matches				
c.	Standards Data (All Instruments)	57	78		
	Initial Calibration Data (Form VI VOA)				
	RICs and Quan Reports for all Standards				
	Continuing Calibration Data (Form VII VOA)				
	RICs and Quantitation Reports for all Standards				
d.	Raw QC Data				
	BFB	79	82		
	Blank Data	83	94		
	Matrix Spike/Matrix Spike Duplicate Data	95	104		

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 24517 SDG NO. FER43 SDG NOS. TO FOLLOW FER94
SAS NO. _____

		PAGE NOs FROM	TO	CHECK LAB	EPA
5.	Semivolatiles Data				
a.	QC Summary				
	Surrogate Percent Recovery Summary (Form II SV)	105	105	—	✓
	MS/MSD Summary (Form III SV)	106	106	—	✓
	Method Blank Summary (Form IV SV)	107	107	—	✓
	GC/MS Instrument Performance Check (Form V SV)	108	109	—	✓
	Internal Standard Area and RT Summary (Form VIII SV)	110	111	—	✓
b.	Sample Data	112	139		
	TCL Results - (Form I SV-1. SV-2)				
	Tentatively Identified Compounds (Form I SV-TIC)			—	✓
	Reconstructed total ion chromatograms (RIC) for each sample			—	✓
	For each sample:				
	Raw spectra and background-subtracted mass spectra of target compounds			—	✓
	Quantitation reports			—	✓
	Mass spectra of TICs with three best library matches			—	✓
	GPC chromatograms (if GPC performed)			NA	—
c.	Standards Data (All Instruments)	140	167		
	Initial Calibration Data (Form VI SV-1, SV-2)			—	✓
	RICs and Quan Reports for all Standards			—	✓
	Continuing Calibration Data (Form VII SV-1, SV-2)			—	✓
	RICs and Quantitation Reports for all Standards			—	✓
d.	Raw QC Data				
	DFTPP	168	171	—	✓
	Blank Data	172	178	—	✓
	Matrix Spike/Matrix Spike Duplicate Data	179	186	—	✓
e.	Raw GPC Data	NA	NA	NA	—
6.	Pesticides				
a.	QC Summary				
	Surrogate Percent Recovery Summary (Form II PEST)	187	187	—	✓
	MS/MSD Duplicate Summary (Form III PEST)	188	188	—	✓
	Method Blank Summary (Form IV PEST)	189	189	—	✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 24517 SDG NO. FER43 SDG NOS. TO FOLLOW FER94
SAS NO. _____

		PAGE NOs FROM	TO	CHECK LAB	EPA
6.	Pesticides (cont.)				
	b. Sample Data	190	214		
	TCL Results - Organic Analysis Data Sheet (Form I PEST)			—	✓
	Chromatograms (Primary Column)			✓	✓
	Chromatograms from second GC Column confirmation			—	✓
	GC Integration report or data system printout			✓	✓
	Manual work sheets			NA	—
	For pesticides/Aroclors confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			NA	—
	c. Standards Data	215	340		
	Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)			—	✓
	Initial Calibration of Multicomponent Analytes (Form VI PEST-3)			—	✓
	Analyte Resolution Summary (Form VI PEST-4)			—	✓
	Performance Evaluation Mixture (Form VI PEST-5)			—	✓
	Individual Standard Mixture A (Form VI PEST-6)			—	✓
	Individual Standard Mixture B (Form VI PEST-7)			—	✓
	Calibration Verification Summary (Form VII PEST-1)			—	✓
	Calibration Verification Summary (Form VII PEST-2)			—	✓
	Analytical Sequence (Form VIII PEST)			—	✓
	Florisil Cartridge Check (Form IX PEST-1)			✓	✓
	Pesticide GPC Calibration (Form IX PEST-2)			NA	—
	Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)			—	✓
	Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)			NA	—
	Chromatograms and data system printouts				
	A printout of retention times and corresponding peak areas or peak heights			—	✓
	d. Raw QC Data				✓
	Blank Data	341	363	—	✓
	Matrix Spike/Matrix Spike Duplicate Data	364	373	—	✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 24517 SDG NO. FER43 SDG NOS. TO FOLLOW FER44
SAS NO. _____

		PAGE NOs FROM	TO	CHECK LAB	EPA
6.	Pesticides (Cont.)				
	e. Raw GPC Data	NA	NA	NA	—
	f. Raw Florisil Data	374	385	✓	✓
7.	Miscellaneous Data				
	Original preparation and analysis forms or copies of preparation and analysis logbook pages	386	401	✓	✓
	Internal sample and sample extract transfer chain-of-custody records	NA	NA	NA	—
	Screening records	NA	NA	NA	—
	All instrument output, including strip charts from screening activities (describe or list)				
	_____	NA	NA	NA	—
	_____	↓	↓	↓	—
8.	EPA Shipping/Receiving Documents				
	Airbills (No. of shipments 1)	402	405	✓	✓
	Chain-of-Custody Records	406	410	✓	✓
	Sample Tags			✓	✓
	Sample Log-In Sheet (Lab & DC1)	411	413	✓	✓
	Miscellaneous Shipping/Receiving Records (describe or list)				
	_____	NA	NA	NA	—
	_____	↓	↓	↓	—
9.	Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	_____	NA	NA	NA	—
	_____	↓	↓	↓	—
10.	Other Records (describe or list)				
	Telephone Communication Log	414	416	—	✓
	_____	NA	NA	NA	—
	_____	↓	↓	✓	—

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 24517	SDG NO. FER43	SDG NOS. TO FOLLOW FER94	
	SAS NO.		

11. Comments: Sample tags are shipped with this data package.

Completed by: (CLP Lab)	Robyn Darby (Signature)	Robyn J. Darby Data Clerk (Printed Name/Title)	4-30-96 (Date)
Verified by: (CLP Lab)	Virginia L Jones (Signature)	Virginia L Jones Document Control Officer (Printed Name/Title)	4/30/96 (Date)
Audited by: (EPA)	CA Covington (Signature)	CH Covington/Data Review (Printed Name/Title)	5/13/96 (Date)

BOOKMARK

I. SDG NARRATIVE

SDG NARRATIVE

Laboratory Name: AATSLA, Baton Rouge

Case No: 24517
SDG No: FER43
Contract: 68-D5-0023

Six water samples were received 28 March 1996 for Volatile, Semivolatile, and Pesticide/PCB organic analysis utilizing USEPA's CLP SOW OLM03.1 protocol. The samples, along with their respective pH values of the volatile vials are listed below in Table 1:

TABLE 1

EPA Sample Number:	pH
FER43	7
FER43MS	7
FER43MSD	7
FER57	7
FER58	7
FER61	7
FER62	7
FES98	7

Please note, the volatile vials appear not to have been field preserved.

Volatile Organic Analysis:

A 75 m x 0.53 mm ID with a 3 µm film DB-624 J&W capillary column was utilized. Also a 30.5 cm Supelco Purge Trap F consisting of 1 cm 3% SP-2100, 15 cm Tenax TA, and 7.7 cm Silica gel 15 was used.

No other significant problems were encountered.

All manual integrations are represented by an "m" flag on the quantitative report. Included in the data package are graphic reports of any manual integrations which have been initialed and dated.

Semi-volatile Organic Analysis:

Sample FER43's MS/MSD had spike compound recoveries outside advisory QC criteria. No further action was necessary.

A 30m x 0.25 mm ID with a 0.25 µm film XTI-5 Restek capillary column was utilized.

No significant problems were encountered.

Manual integrations are represented by an "m" flag on the quantitative report. Included in the data package are graphic reports of any manual integrations which have been initialed and dated.

Pesticide/PCB Organic Analysis:

Columns used for Pesticide/PCB analysis were:

a. RTX-35, 0.53 mm ID, 30 m length
Restek Crossbonded® 65% dimethyl - 35% diphenyl polysiloxane, 1.5 micron thickness

b. DB-5, 0.53 mm ID, 30 m length
(5% phenyl) methylpolysiloxane, 1.5 micron thickness

In FER43MS endrin recovery exceeded QC recovery limits.

The RPD value for gamma-BHC exceeded limits, despite the fact that gamma-BHC recovery in both the MS and MSD was within limits.

No significant problems were encountered.

Where manual integrations were performed, the modifications were dated and initialed.

"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 and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature."

Russell D. McNiece
GC/MS Supervisor
30 April 1996

RDM:rjd

BOOKMARK

II. TRAFFIC REPORT

000003

AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.

April 3, 1996

Mrs. Christine Bennett
CLASS
USEPA
Contract Laboratory Program
P.O. Box 818
Alexandria, VA 22313

REF: Contract No. 68-D5-0023
Case No. 24517, SDG FER43

SUBJECT: Organic Traffic Report

Dear Mrs. Bennett:

Attached are the Organic Traffic Reports and the SDG TR Cover Sheet covering samples received March 28 , 1996 from Region VI.

The "CLPAS SHIPPING" form faxed to the laboratory indicated that a total of five low water samples had been shipped for BNA/PES analysis only even though this case was scheduled for full TCL (FTCL) analysis . When the samples were received, the chain-of-custody indicated FTCL analysis was to be performed, and sample containers for FTCL were received. It appears that the sampler did not give CLASS all the information required. Enclosed is a copy of the telephone record log covering this issue.

If you have any questions, or need additional information, please call me at (504) 753-8650.

Sincerely yours,

Virginia L. Jones
Document Control Officer

:vlj

Attachments

11950 INDUSTRIPLEX BLVD. • BATON ROUGE, LA 70809 • OFFICE (504) 753-8650 • FAX (504) 751-1405

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

Lab Name: American Analytical & Technical Services, Inc. Contract No.: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ - ___

Full Sample Analysis Price in Contract: $ 612.00

SDG No./First Sample in SDG: FER43 Sample Receipt Date: 03/28/96 (MM/DD/YY)
(Lowest EPA Sample Number in first shipment of samples received under SDG)

Last Sample in SDG: FES98 Sample Receipt Date: 03/28/96 (MM/DD/YY)
(Highest EPA Sample Number in last shipment of samples received under SDG)

EPA Sample Numbers in the SDG (listed in alphanumeric order):

1.	FER43	11.	
2.	FER57	12.	
3.	FER58	13.	
4.	FER61	14.	
5.	FER62	15.	
6.	FES98	16.	
7.		17.	
8.		18.	
9.		19.	
10.		20.	

NOTE: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

Susan Stewart
Sample Custodian

April 3, 1996
Date

50

000005

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: 6

Sampling Co.: TNRCC

4. Date Shipped: 3/27/96

Carrier: Airborne

6. Date Received - Received by: 3/28/96 [signature]

Sampler (Name): Johnny Kennedy

Airbill Number: 4343319470

Laboratory Contract Number:

Unit Price:

Sampler Signature: [signature]

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

5. Ship To: AATSLA, 11950 Industriplex Blvd., Baton Rouge, LA 70809

ATTN: Virginia Jones

7. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER43	2	L	G	5		X	X		6-020570	GW-20	03/26/96 1516	MFGH18	JK			
FER43	2	L	G	5		X	X		6-020572	GW-20	03/26/96 1516	MFGH18	JK			

Shipment for Case Complete? (Y/N): N

Page: 1 of 1

Sample(s) to be Used for Laboratory QC: FER43

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	03/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		[signature]	3/28/96 1100		

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO; SDG FER

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

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4°C

EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

900006

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H2SO4
   5. Ice only
   6. Other (Specify in Column D)
   N. Not preserved

2. Region No.: 6
Sampling Co.: TNRCC
4. Date Shipped: 3/27/96
Carrier: Airborne
6. Date Received -- Received by: 3/28/96 Alan Stewart
Sampler (Name): Johnny Kennedy
Airbill Number: 434331937 4
Laboratory Contract Number:
Unit Price:
Sampler Signature:
3. Purpose — Lead: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI; Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD
5. Ship To: AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
ATTN: Virginia Jones
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER58	W	L	G	5		X	X		6-020648	GW-17	03/26/96 1622	MFGH09	JK			
FER57	W	L	G	5		X	X		6-020653	GW-18	03/26/96 1549	MFGH08	AP			

Shipment for Case Complete? (Y/N): N
Page: 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	03/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		[signature]	3/28/96 1100		

A21-012-4 REV. 3/93

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EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

SDG FER

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EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable)

Case No. 24517

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 6
Sampling Co.: TNRCC
Sampler (Name): Abbi Power
Sampler Signature: [signature]

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 3/27/96
Carrier: Airborne
Airbill Number: 4343319271

5. Ship To: AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
ATTN: Virginia Jones

6. Date Received – Received by: 3/28/96 [signature]
Laboratory Contract Number
Unit Price
7. Transfer to:
Date Received
Received by
Contract Number
Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER62	2	L	G	5		X	X		6-020658	GW-19	03/26/96/1648	MFGH07	AF			
FER61	2	L	G	5		X	X		6-020663	GW-21	03/26/96/1648	MFGH06	AF			

HH 3/26

Shipment for Case Complete? (Y/N) N
Page 1 of 1
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures
Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	3/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature]	Date / Time 3/28/96 1100	Remarks Is custody seal intact? Y/N/none	

A21-012-4 REV. 3/93

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EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

SDG F 3

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7

EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H2SO4
   5. Ice only
   6. Other (Specify in Column D)
   N. Not preserved

2. Region No.: 6 | Sampling Co.: TNRCC

4. Date Shipped: 3/27/96 | Carrier: AIRBORNE EXPRESS

6. Date Received: 3/28/96 | Received by: Ellen Stevens

Sampler (Name): JOHNNY KENNEDY

Airbill Number: 4343319573

Laboratory Contract Number | Unit Price

Sampler Signature: Johnny Kennedy

3. Purpose
   - Lead: [X] SF, [ ] PRP, [ ] ST, [ ] FED
   - Early Action: [ ] CLEM, [ ] PA, [ ] REM, [ ] RI, [X] SI, [ ] ESI
   - Long-Term Action: [ ] FS, [ ] RD, [ ] RA, [ ] O&M, [ ] NPLD

5. Ship To:
AATSLA
11950 INDUSTRIPLEX BLVD
BATON ROUGE, LA 70809
ATTN: VIRGINIA JONES

7. Transfer to: | Date Received

Received by

Contract Number | Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only: ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER43	2	L	G	5		X	X		6-020571	GW-20	3/26/96 15:16	MEGH 18	J.K			
FER43	2	L	G	5	X				6-020564-69	GW-20	3/26/96 15:16	MEGH 18	J.K			
FER58	2	L	G	5	X				6-020646-47	GW-17	3/26/96 16:22	MEGH 09	J.K			
FER57	2	L	G	5	X				6-020651-52	GW-18	3/26/96 15:48	MEGH 08	A.F.			
FER62	2	L	G	5	X				6-020656-57	GW-19	3/26/96 16:48	MEGH 07	A.F			
FER61	2	L	G	5	X				6-020661-62	GW-21	3/26/96 16:38	MEGH 06	A.F			
FES98	2	L	G	5	X				6-020599-600	FB-02	3/26/96 17:14	—	B.N.			

Shipment for Case Complete? (Y/N): N

Page: 1 of 1

Sample(s) to be Used for Laboratory QC: FER43

Additional Sampler Signatures: Abigail Rowe

Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Johnny Kennedy	3/27/96 14:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		Ellen Stevens	3/28/96 1100		

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EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

SDG FER4
SDG Final Sample

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000009

In Reference to Case No(s):
24517

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 03/28/96

Laboratory Name: AATSLA
Lab Contact: Virginia L. Jones

~~Region~~: CLASS
Regional Contact: Jonathan Rude / Carol Shaffer

Call Initiated by: X Laboratory _____ Region

In reference to data for the following sample number(s):

Summary of Questions/Issues Discussed:

CLPAS SHIPPING form indicated that a total of 5 LW for BNA/PES were to be received. The laboratory actually received 5 LW for VOA/BNA/PES plus 1 LW for VOA only. The chain-of-custodies indicate that the case is not complete.

Summary of Resolution:
Class will update their information.

Virginia L Jones
Signature

4/3/96
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

VIRGINIA JONES

CLPAS SHIPPING

TO: AATSLA **DATE: 03/28/96** **FROM: RAS COORDINATORS**

Case No	Coordinator	Region	Shipping Date	Airbill Number	Samples Shipped	Ship info called in by sampler complete? Y/N	Does lab TR match? Y/N
24517	Jonathan	VI	03/27/96	4343319676	6 LS VOA/BNA/PES Airborne Ex. ???COMPLETE???	N	Y
24517	Jonathan	VI	03/27/96	4343319470	1 LW BNA/PES Airborne Ex. ???COMPLETE???	N	N
24517	Jonathan	VI	03/27/96	4343319374	2 LW BNA/PES Airborne Ex. ???COMPLETE???	N	N
24517	Jonathan	VI	03/27/96	4343319271	2 LW BNA/PES Airborne Ex. ???COMPLETE???	N	N

???

000010

MATRIX: LW=Low Conc. Water LS=Low Conc. Soil MS=Medium Conc. Soil

ANALYSIS: FTCL=Full Target Compound List; VOA; BNA; PEST/PCB (P/P)

TMCN=Total Metals and Cyanide; TM=Total Metals; CN=Cyanide; DM=Dissolved Metals

Lab should determine whether TR received matches shipping info. provided by CLASS and should call appropriate coordinator if there is a problem with the above information.

BOOKMARK

III. VOA DATA

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	FER43	105	105	102	0	0
02	FER57	105	104	102	0	0
03	FER58	105	105	102	0	0
04	FER61	104	106	102	0	0
05	FER62	105	106	102	0	0
06	FES98	105	105	99	0	0
07	VHBLK1J	104	103	105	0	0
08	FER43MS	105	107	104	0	0
09	FER43MSD	105	106	105	0	0
10	VBLK1J	103	106	103	0	0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix Spike - EPA Sample No.: FER43

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0	51.12	102	61-145
Trichloroethene	50.00	0	51.28	103	71-120
Benzene	50.00	0	54.33	109	76-127
Toluene	50.00	0	50.41	101	76-125
Chlorobenzene	50.00	0	48.42	97	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	51.63	103	1	14	61-145
Trichloroethene	50.00	49.77	100	3	14	71-120
Benzene	50.00	51.49	103	6	11	76-127
Toluene	50.00	49.86	100	1	13	76-125
Chlorobenzene	50.00	48.13	96	1	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: VBLK1J

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Lab File ID: B2970 Lab Sample ID: VBLK1J

Date Analyzed: 04/04/96 Time Analyzed: 1159

GC Column: CAP ID: 0.530 (mm) Heated Purge: (Y/N) N

Instrument ID: HP1

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	FER43	1541001	B2971	1231
02	FER57	1541004	B2972	1258
03	FER58	1541005	B2973	1324
04	FER61	1541006	B2974	1351
05	FER62	1541007	B2981	1736
06	FES98	1541008	B2980	1709
07	VHBLK1J	VHBLK1J	B2986	1950
08	FER43MS	1541002MS	B2982	1802
09	FER43MSD	1541003MSD	B2983	1829

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

000014

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Lab File ID: ABFB1229 BFB Injection Date: 12/29/95

Instrument ID: HP1 BFB Injection Time: 0828

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	38.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	66.5
175	4.0 - 9.0% of mass 174	3.5 (5.2)1
176	93.0 - 101.0% of mass 174	66.3 (99.7)1
177	5.0 - 9.0% of mass 176	4.6 (7.0)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501V	VSTD0501V	B1168	12/29/95	0846
02	VSTD2001V	VSTD2001V	B1170	12/29/95	0955
03	VSTD1001V	VSTD1001V	B1171	12/29/95	1024
04	VSTD0201V	VSTD0201V	B1172	12/29/95	1052
05	VSTD0101V	VSTD0101V	B1173	12/29/95	1120

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

000015

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Lab File ID: ABFB0404 BFB Injection Date: 04/04/96

Instrument ID: HP1 BFB Injection Time: 0957

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.6
75	30.0 - 66.0% of mass 95	43.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	60.4
175	4.0 - 9.0% of mass 174	3.1 (5.2)1
176	93.0 - 101.0% of mass 174	58.0 (96.1)1
177	5.0 - 9.0% of mass 176	3.9 (6.7)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501J	VSTD0501J	B2967	04/04/96	1014
02	VBLK1J	VBLK1J	B2970	04/04/96	1159
03	FER43	1541001	B2971	04/04/96	1231
04	FER57	1541004	B2972	04/04/96	1258
05	FER58	1541005	B2973	04/04/96	1324
06	FER61	1541006	B2974	04/04/96	1351
07	FES98	1541008	B2980	04/04/96	1709
08	FER62	1541007	B2981	04/04/96	1736
09	FER43MS	1541002MS	B2982	04/04/96	1802
10	FER43MSD	1541003MSD	B2983	04/04/96	1829
11	VHBLK1J	VHBLK1J	B2986	04/04/96	1950

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023 000016

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Lab File ID (Standard): B2967 Date Analyzed: 04/04/96

Instrument ID: HP1 Time Analyzed: 1014

GC Column: CAP ID: 0.530 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (CBZ) AREA	#	RT	#
	12 HOUR STD	138782		9.87		669674		10.90		546409		14.17	
	UPPER LIMIT	277564		10.37		1339348		11.40		1092818		14.67	
	LOWER LIMIT	69391		9.37		334837		10.40		273204		13.67	
	EPA SAMPLE NO.												
01	FER43	147520		9.90		750942		10.94		619618		14.22	
02	FER57	143558		9.89		718444		10.94		597096		14.24	
03	FER58	121406		9.90		617247		10.94		506374		14.24	
04	FER61	124222		9.92		620519		10.95		515816		14.24	
05	FER62	133283		9.92		663462		10.94		552358		14.24	
06	FES98	150301		9.92		746532		10.95		618981		14.22	
07	VHBLK1J	165819		9.94		819411		10.97		695565		14.25	
08	FER43MS	146127		9.92		705070		10.95		596933		14.24	
09	FER43MSD	125507		9.92		618874		10.95		516608		14.25	
10	VBLK1J	169251		9.92		829440		10.95		699839		14.22	

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000018 EPA SAMPLE NO.

FER43

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541001

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2971

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

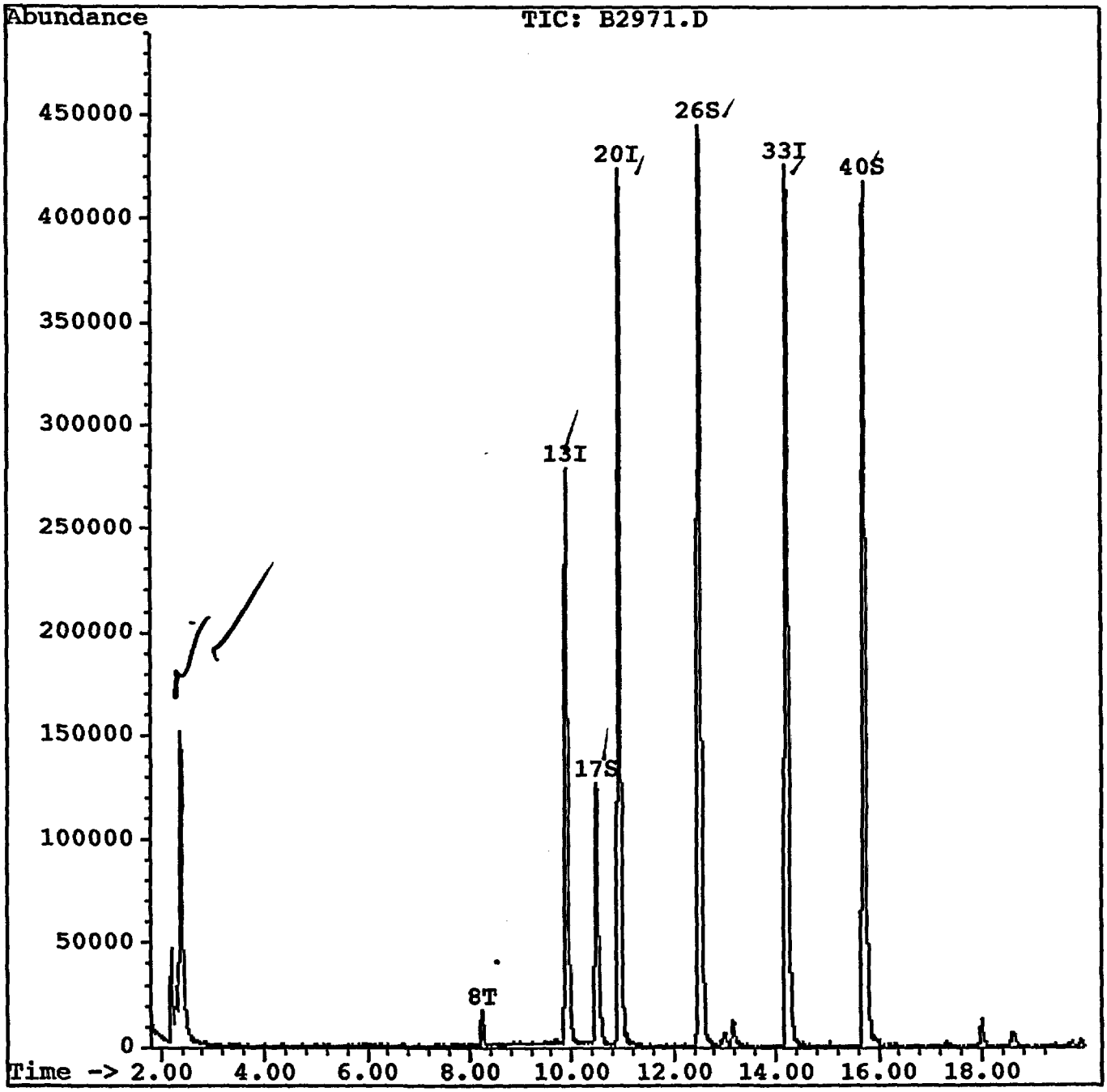
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 12:31

000019

Data File: C:\040496A\B2971.D
Name: FER43
Misc: HP1*USEPA*15410.01*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration



QUANT REPORT

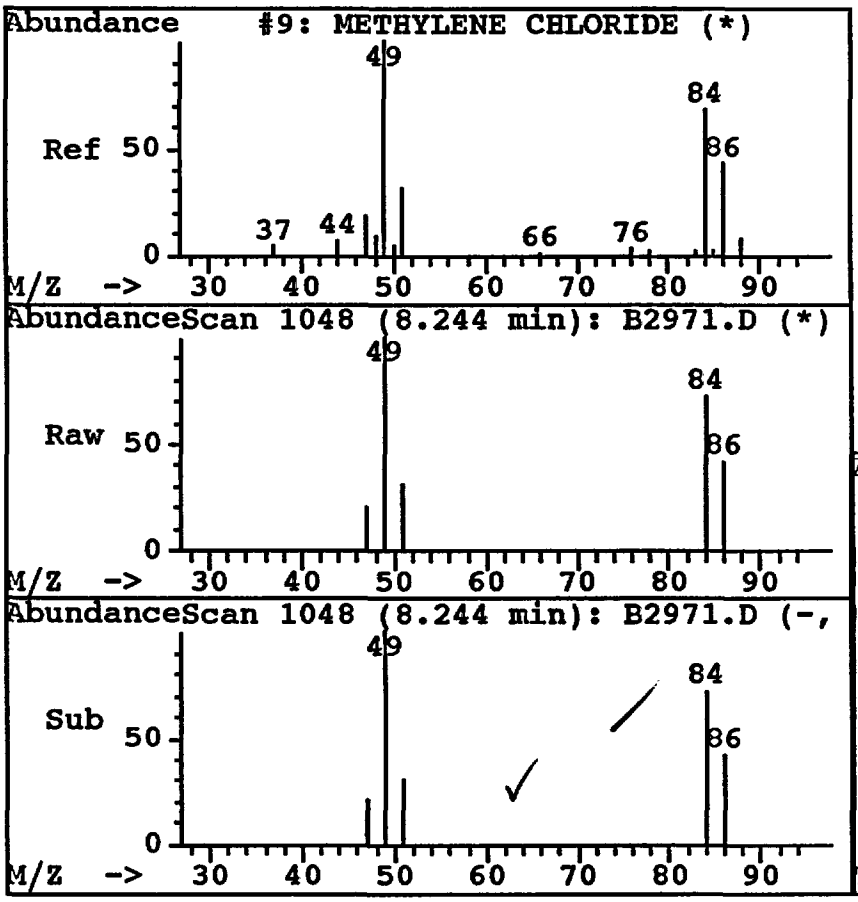
Operator ID: JR Date Acquired: 4 Apr 96 12:31

000020

Data File: C:\040496A\B2971.D
Name: FER43
Misc: HP1*USEPA*15410.01*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.90	128	147520	50.00	ug/L	0.04
20) CI10 1,4-Difluorobenzene	10.93	114	750942	50.00	ug/L	0.03
33) CI20 D5-Chlorobenzene	14.22	117	619618	50.00	ug/L	0.06
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.49	65	170830	51.21	ug/L	102.41%
26) CS05 D8-Toluene SU2	12.51	98	730410	52.37	ug/L	104.75%
40) CS10 p-Bromofluorobenzene	15.72	95	471683	52.32	ug/L	104.63%
Target Compounds						ISTD#
8) C030 Methylene chloride	8.24	84	13906	2.90	ug/L	001#

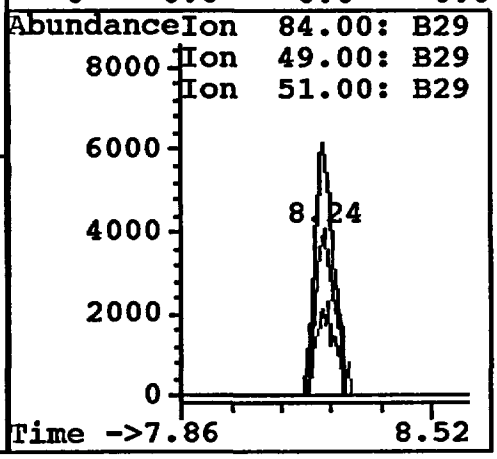
(#) = qualifier out of range



#8 Inst: HP1 **000021**
C030 Methylene chloride
Concen: 2.90 ug/L
RT: 8.24 min Scan# 1048
Delta R.T. 0.03 min
Lab File: B2971.D
Acq: 4 Apr 96 12:31
FER43

Tgt Ion: 84 Area: 13906

Ion	Ratio	Lower	Upper
84	100		
49	158.0	97.8	146.6#
51	57.2	30.0	45.0#
0	0.0	0.0	0.0



INTERNAL STANDARD CHECK REPORT

000022

Method : OLMO3W1.M
Instrument ID : HP1
Continuing Calibration File : B2967.D
Sample File : B2971.D
Acquisition Date & Time : 4 Apr 96 12:31
Sample Name : FER43
Misc Info : HP1*USEPA*15410.01*5mL*MS317
Operator : JR

Istd	Name	Sample Area	Cont. Calib Area	Lower Limit	Upper Limit	Status
CI01	Bromochloromethan	147520	138782	69391	277564	OK
CI10	1,4-Difluorobenze	750942	669674	334837	1339348	OK
CI20	D5-Chlorobenzene	619618	546409	273205	1092818	OK

Istd	Name	Sample R.Time	Cont. Calib R.Time	Lower R.Time	Upper R.Time	Status
CI01	Bromochloromethan	9.90	9.86	9.36	10.36	OK
CI10	1,4-Difluorobenze	10.93	10.89	10.39	11.39	OK
CI20	D5-Chlorobenzene	14.22	14.16	13.66	14.66	OK

SURROGATE RECOVERY REPORT

000023

Sample File : B2971.D
Sample Name : FER43
Misc Info : HP1*USEPA*15410.01*5mL*MS317
Acquisition Date & Time : 4 Apr 96 12:31
Method : OLMO3W1.M
Instrument ID : HP1
Operator : JR

Surrogate	Sample Conc	Spike Amt.	Water Limits	% Rec.
CS15 D4-1,2-Dichloroet	51.21	50.00	76-114	102.4
CS05 D8-Toluene SU2	52.37	50.00	88-110	104.7
CS10 p-Bromofluorobenz	52.32	50.00	86-115	104.6

LINEARITY CHECK REPORT

Compound Name	Detected Concentration	Max. Allowed Concentration

All Compounds within Linear Range

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000025 EPA SAMPLE NO.

FER57

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541004

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2972

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. _____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

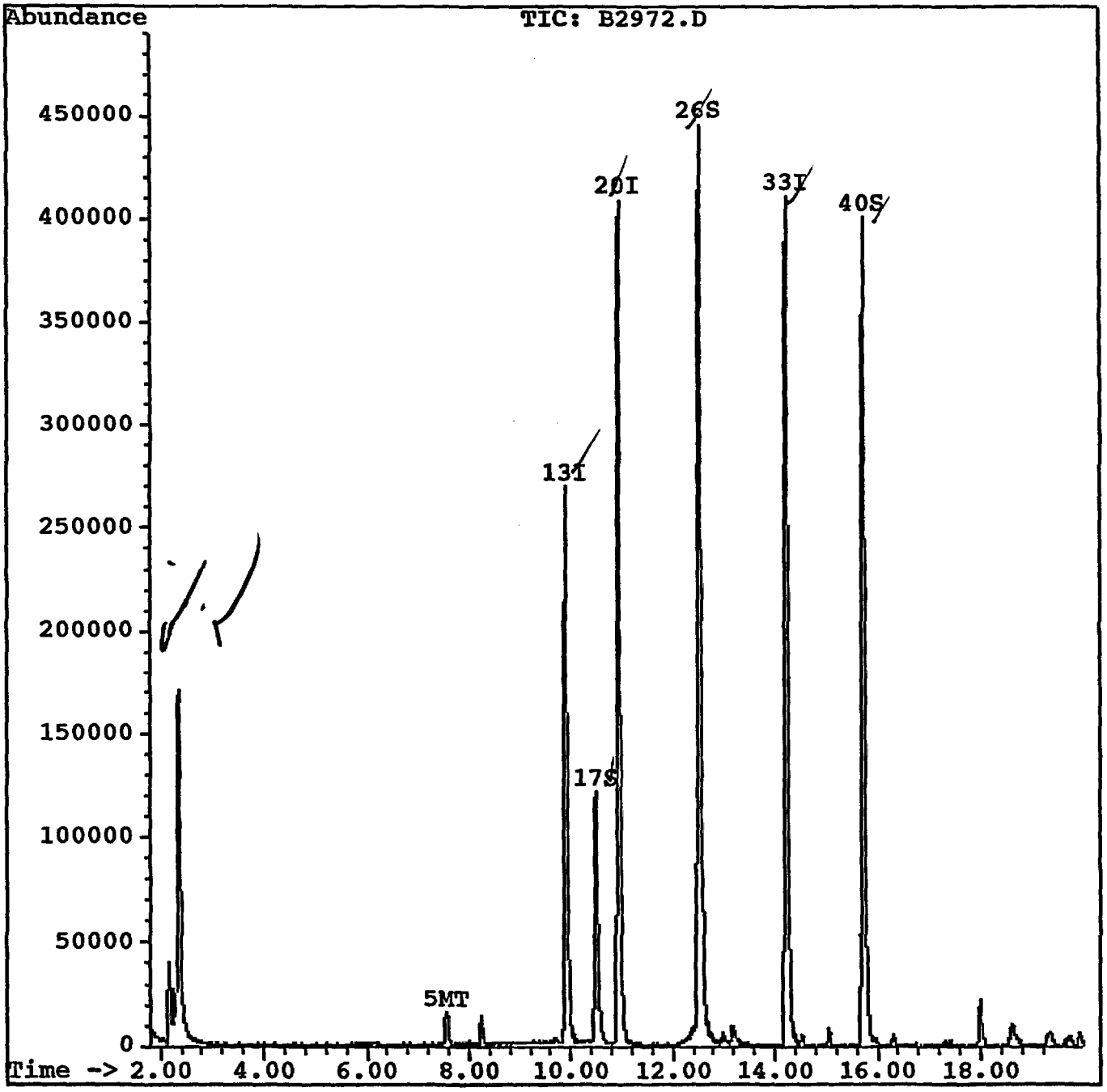
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 12:58
Data File: C:\040496A\B2972.D
Name: FER57
Misc: HP1*USEPA*15410.04*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration



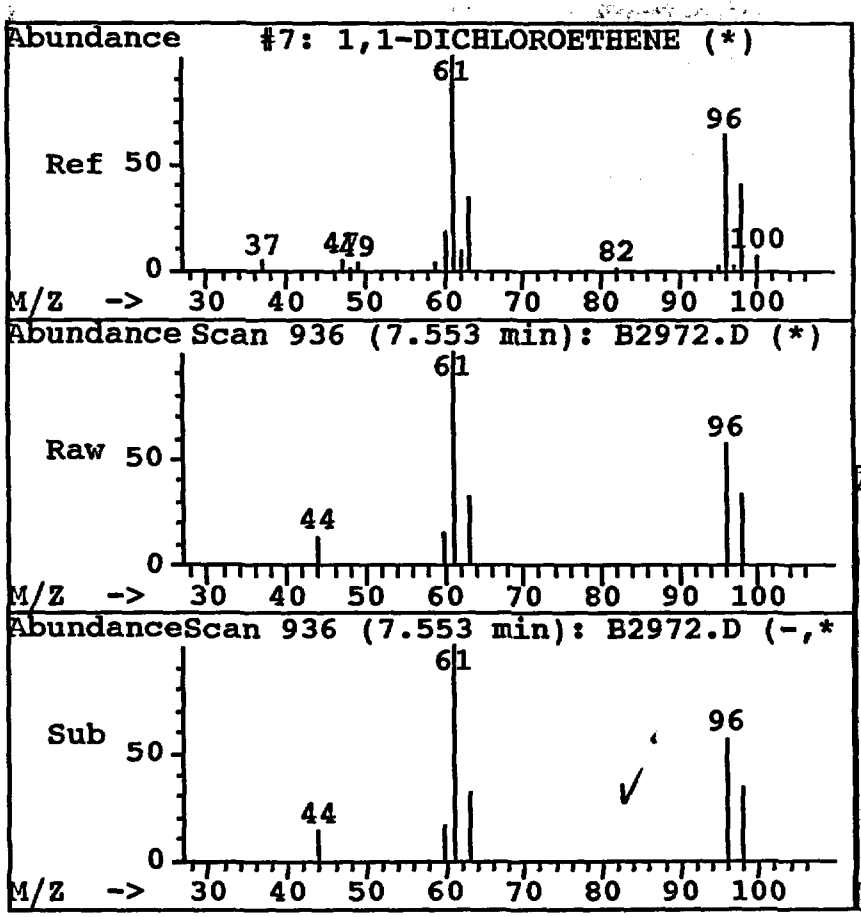
QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 12:58
Data File: C:\040496A\B2972.D
Name: FER57
Misc: HP1*USEPA*15410.04*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration

000027

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	143558	50.00	ug/L	0.03
20) CI10 1,4-Difluorobenzene	10.94	114	718444	50.00	ug/L	0.04
33) CI20 D5-Chlorobenzene	14.23	117	597096	50.00	ug/L	0.06
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.50	65	165891	51.10	ug/L	102.20%
26) CS05 D8-Toluene SU2	12.52	98	704197	52.40	ug/L	104.80%
40) CS10 p-Bromofluorobenzene	15.73	95	453400	52.19	ug/L	104.37%
Target Compounds						**ISTD#**
5) C045 1,1-Dichloroethene	7.55	96	14190	2.99	ug/L	001#

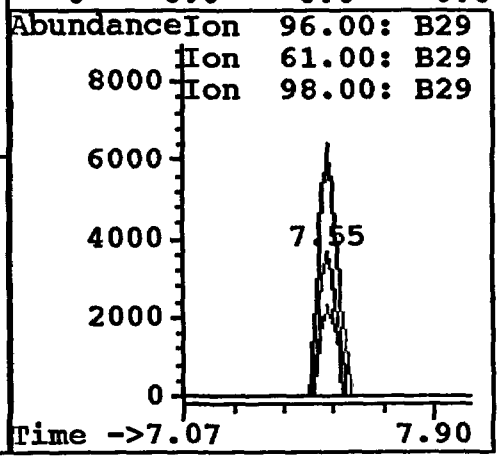
(#) = qualifier out of range



#5 Inst: HP1 000028
C045 1,1-Dichloroethene
Concen: 2.99 ug/L
RT: 7.55 min Scan# 936
Delta R.T. 0.02 min
Lab File: B2972.D
Acq: 4 Apr 96 12:58
FER57

Tgt Ion: 96 Area: 14190

Ion	Ratio	Lower	Upper
96	100		
61	186.7	113.4	170.0#
98	61.1	49.3	73.9
0	0.0	0.0	0.0



INTERNAL STANDARD CHECK REPORT

000029

Method : OLMO3W1.M
Instrument ID : HP1
Continuing Calibration File : B2967.D
Sample File : B2972.D
Acquisition Date & Time : 4 Apr 96 12:58
Sample Name : FER57
Misc Info : HP1*USEPA*15410.04*5mL*MS317
Operator : JR

Istd	Name	Sample Area	Cont. Calib Area	Lower Limit	Upper Limit	Status
CI01	Bromochloromethan	143558	138782	69391	277564	OK
CI10	1,4-Difluorobenze	718444	669674	334837	1339348	OK
CI20	D5-Chlorobenzene	597096	546409	273205	1092818	OK

Istd	Name	Sample R.Time	Cont. Calib R.Time	Lower R.Time	Upper R.Time	Status
CI01	Bromochloromethan	9.89	9.86	9.36	10.36	OK
CI10	1,4-Difluorobenze	10.94	10.89	10.39	11.39	OK
CI20	D5-Chlorobenzene	14.23	14.16	13.66	14.66	OK

SURROGATE RECOVERY REPORT

000030

Sample File : B2972.D
Sample Name : FER57
Misc Info : HP1*USEPA*15410.04*5mL*MS317
Acquisition Date & Time : 4 Apr 96 12:58
Method : OLMO3W1.M
Instrument ID : HP1
Operator : JR

Surrogate	Sample Conc	Spike Amt.	Water Limits	% Rec.
CS15 D4-1,2-Dichloroet	51.10	50.00	76-114	102.2
CS05 D8-Toluene SU2	52.40	50.00	88-110	104.8
CS10 p-Bromofluorobenz	52.19	50.00	86-115	104.4

LINEARITY CHECK REPORT

Compound Name	Detected Concentration	Max. Allowed Concentration

All Compounds within Linear Range

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000032 EPA SAMPLE NO.

FER58

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541005

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2973

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 13:24

Data File: C:\040496A\B2973.D

000033

Name: FER58

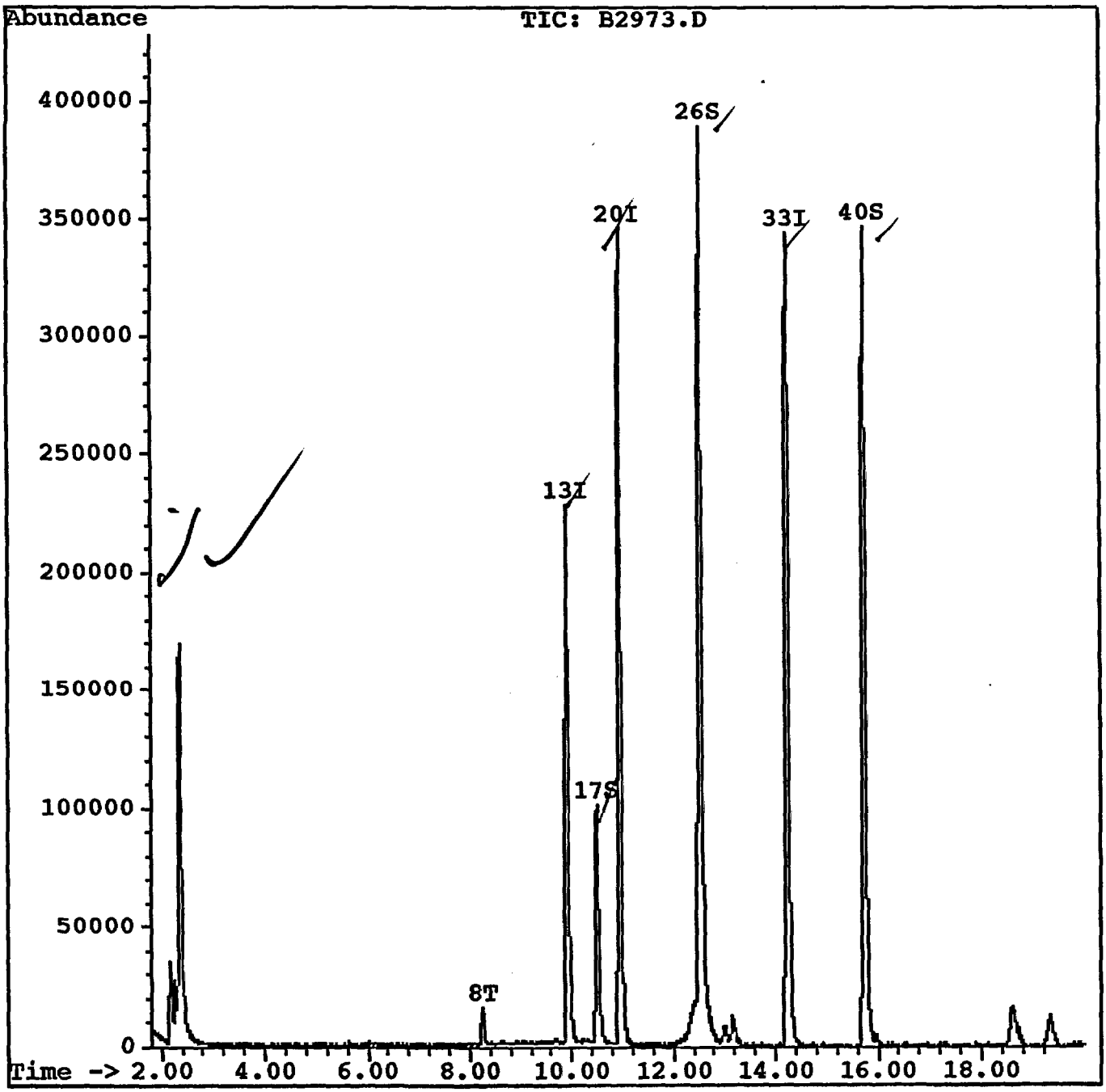
Misc: HP1*USEPA*15410.05*5mL*MS317

Method: OLMO3W1.M Inst: HP1

Title: OLMO3.0 WATER

Last Calibration: Thu Apr 04 14:28:42 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 13:24

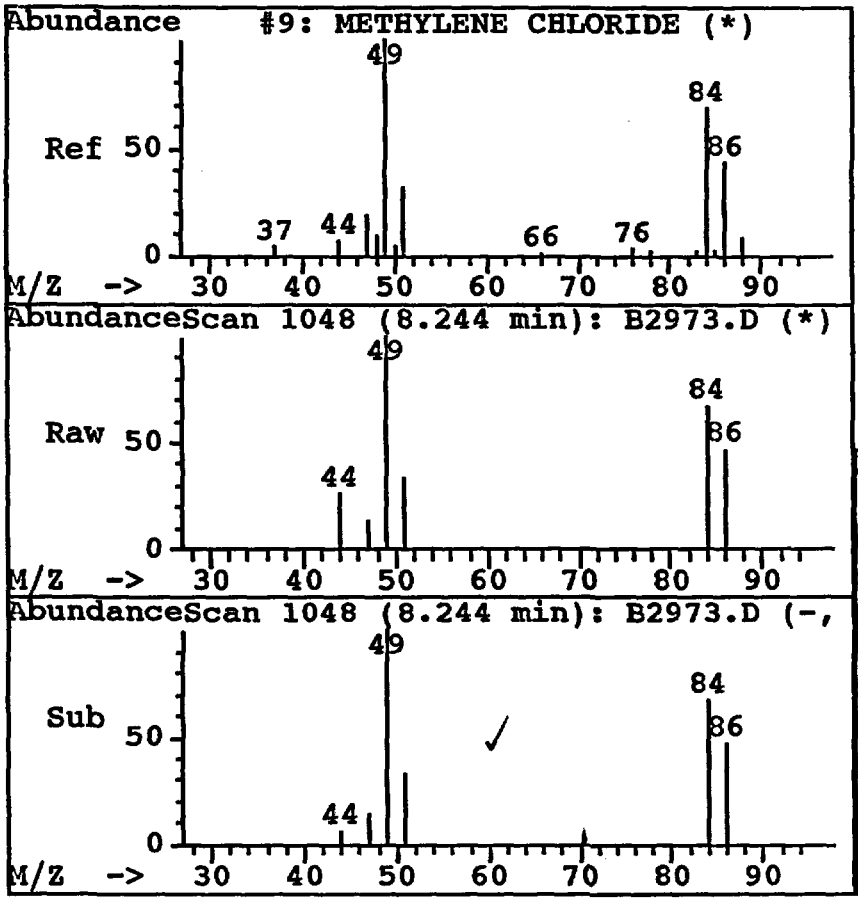
000034

Data File: C:\040496A\B2973.D
Name: FER58
Misc: HP1*USEPA*15410.05*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration

Pollution Cleanup Division

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.90	128	121406	50.00	ug/L	0.04
20) CI10 1,4-Difluorobenzene	10.94	114	617247	50.00	ug/L	0.05
33) CI20 D5-Chlorobenzene	14.24	117	506374	50.00	ug/L	0.07
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.50	65	140303	51.10	ug/L	102.20%
26) CS05 D8-Toluene SU2	12.53	98	598052	52.47	ug/L	104.95%
40) CS10 p-Bromofluorobenzene	15.73	95	388154	52.68	ug/L	105.36%
Target Compounds						ISTD#
8) C030 Methylene chloride	8.24	84	12686	3.21	ug/L	001#

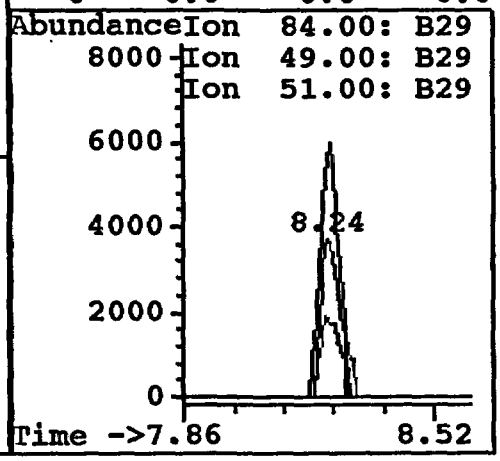
(#) = qualifier out of range



#8 Inst: HP1 **000035**
C030 Methylene chloride
Concen: 3.21 ug/L
RT: 8.24 min Scan# 1048
Delta R.T. 0.03 min
Lab File: B2973.D
Acq: 4 Apr 96 13:24
FER58

Tgt Ion: 84 Area: 12686

Ion	Ratio	Lower	Upper
84	100		
49	168.2	97.8	146.6#
51	54.7	30.0	45.0#
0	0.0	0.0	0.0



INTERNAL STANDARD CHECK REPORT

000036

Method : OLMO3W1.M
Instrument ID : HP1
Continuing Calibration File : B2967.D
Sample File : B2973.D
Acquisition Date & Time : 4 Apr 96 13:24
Sample Name : FER58
Misc Info : HP1*USEPA*15410.05*5mL*MS317
Operator : JR

Istd	Name	Sample Area	Cont. Calib Area	Lower Limit	Upper Limit	Status
CI01	Bromochloromethan	121406	138782	69391	277564	OK
CI10	1,4-Difluorobenze	617247	669674	334837	1339348	OK
CI20	D5-Chlorobenzene	506374	546409	273205	1092818	OK

Istd	Name	Sample R.Time	Cont. Calib R.Time	Lower R.Time	Upper R.Time	Status
CI01	Bromochloromethan	9.90	9.86	9.36	10.36	OK
CI10	1,4-Difluorobenze	10.94	10.89	10.39	11.39	OK
CI20	D5-Chlorobenzene	14.24	14.16	13.66	14.66	OK

SURROGATE RECOVERY REPORT

000037

Sample File : B2973.D
Sample Name : FER58
Misc Info : HP1*USEPA*15410.05*5mL*MS317
Acquisition Date & Time : 4 Apr 96 13:24
Method : OLMO3W1.M
Instrument ID : HP1
Operator : JR

Surrogate	Sample Conc	Spike Amt.	Water Limits	% Rec.
CS15 D4-1,2-Dichloroet	51.10	50.00	76-114	102.2
CS05 D8-Toluene SU2	52.47	50.00	88-110	104.9
CS10 p-Bromofluorobenz	52.68	50.00	86-115	105.4

LINEARITY CHECK REPORT

Compound Name	Detected Concentration	Max. Allowed Concentration

All Compounds within Linear Range

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000039 EPA SAMPLE NO.

FER61

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541006

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2974

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

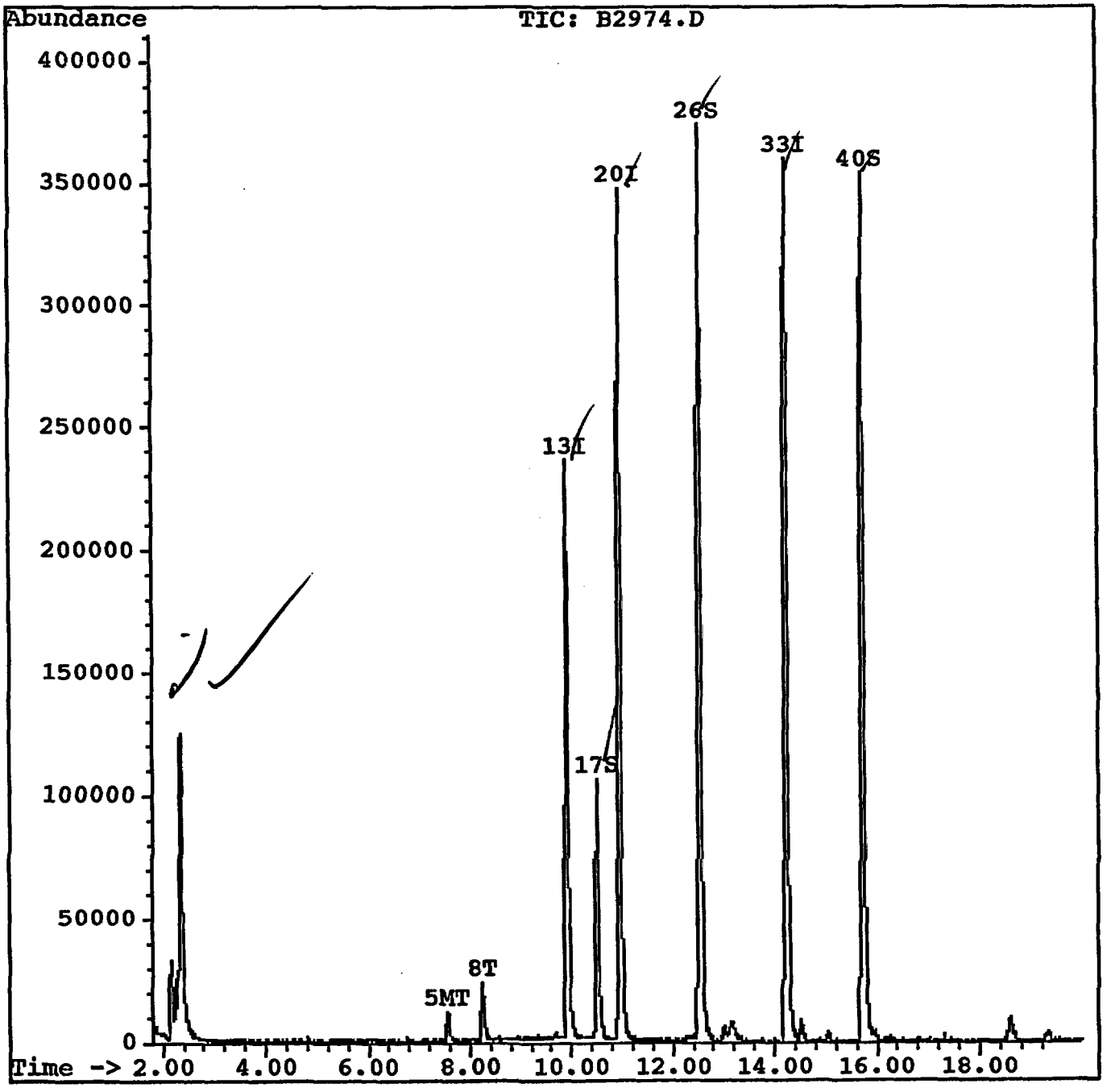
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 13:51

000040

Data File: C:\040496A\B2974.D
Name: FER61
Misc: HP1*USEPA*15410.06*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration



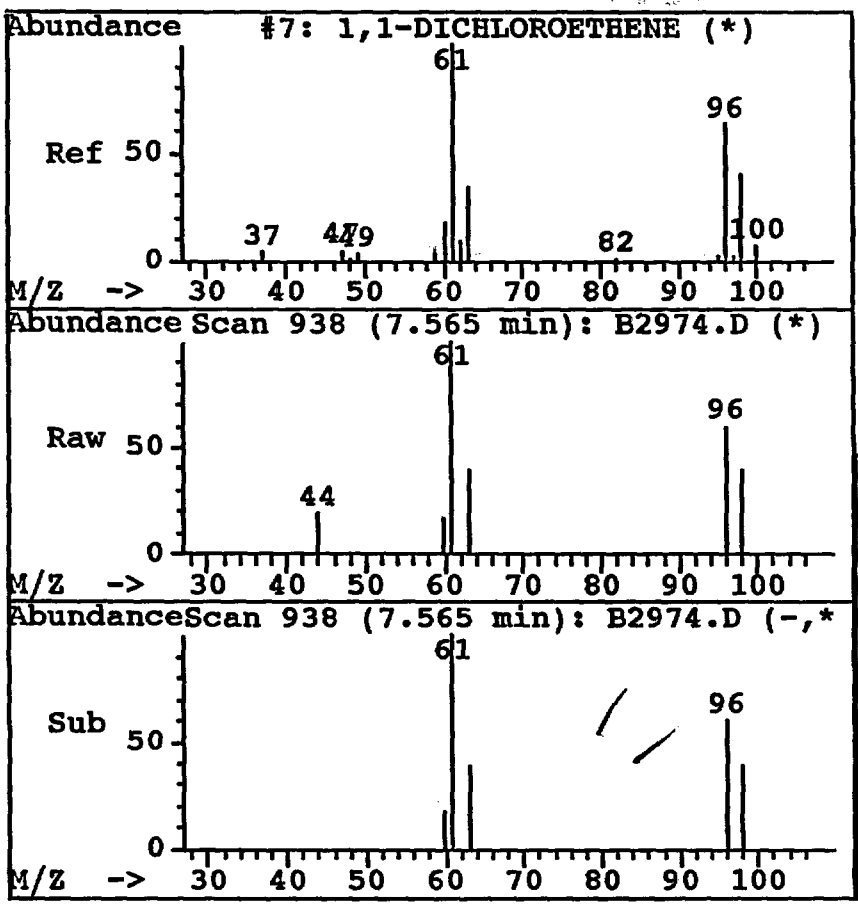
QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 13:51
Data File: C:\040496A\B2974.D
Name: FER61
Misc: HP1*USEPA*15410.06*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration

000041

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.91	128	124222	50.00	ug/L	0.05
20) CI10 1,4-Difluorobenzene	10.95	114	620519	50.00	ug/L	0.06
33) CI20 D5-Chlorobenzene	14.24	117	515816	50.00	ug/L	0.08
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.50	65	143713	51.16	ug/L	102.32%
26) CS05 D8-Toluene SU2	12.53	98	606457	52.24	ug/L	104.47%
40) CS10 p-Bromofluorobenzene	15.73	95	397976	53.02	ug/L	106.05%
Target Compounds						ISTD#
5) C045 1,1-Dichloroethene	7.56	96	10823	2.64	ug/L	001#
8) C030 Methylene chloride	8.24	84	21188	5.24	ug/L	001#

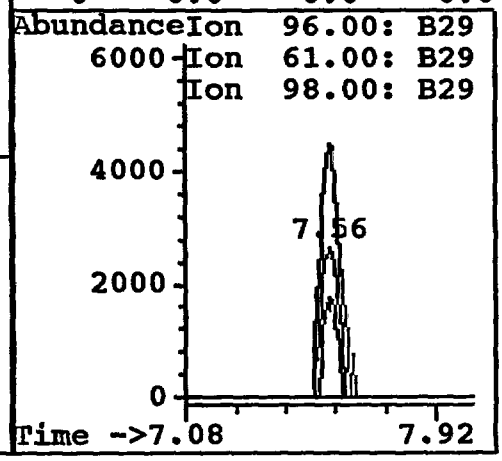
(#) = qualifier out of range

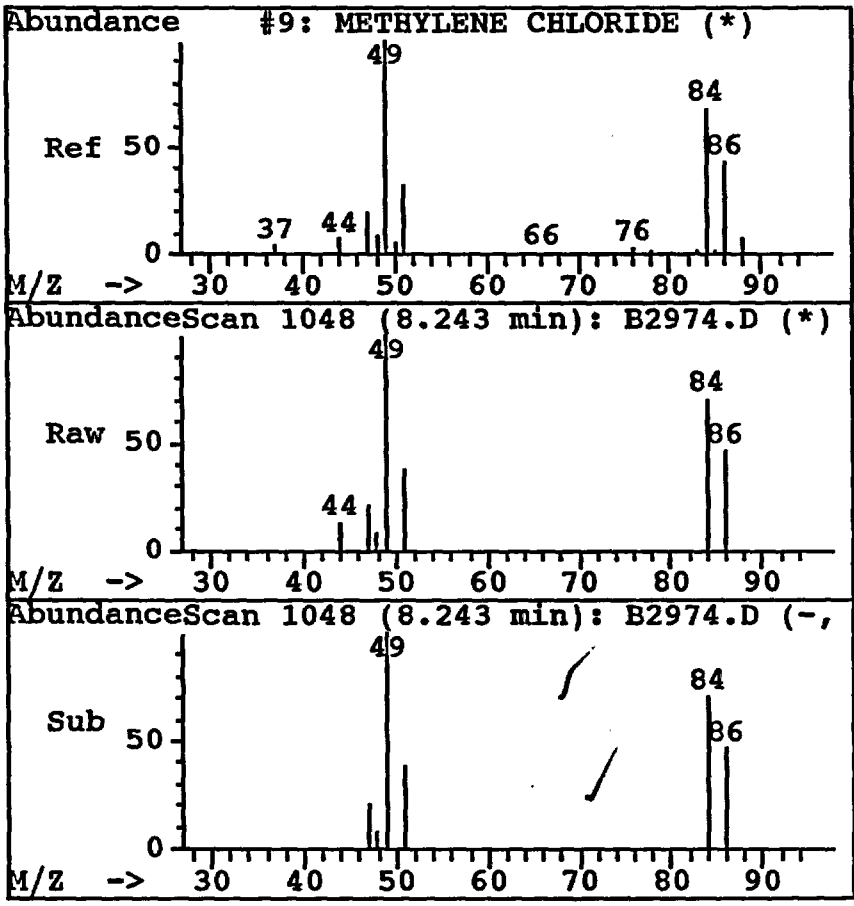


#5 Inst: HP1
C045 1,1-Dichloroethene
Concen: 2.64 ug/L
RT: 7.56 min Scan# 938
Delta R.T. 0.04 min
Lab File: B2974.D
Acq: 4 Apr 96 13:51
FER61

Tgt Ion: 96 Area: 10823

Ion	Ratio	Lower	Upper
96	100		
61	182.9	113.4	170.0#
98	51.1	49.3	73.9
0	0.0	0.0	0.0

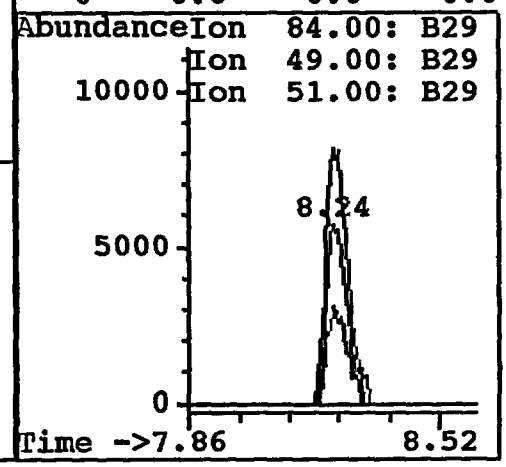




#8 Inst: HP1
C030 Methylene chloride
Concen: 5.24 ug/L
RT: 8.24 min Scan# 1048
Delta R.T. 0.03 min
Lab File: B2974.D
Acq: 4 Apr 96 13:51
FER61

Tgt Ion: 84 Area: 21188

Ion	Ratio	Lower	Upper
84	100		
49	153.1	97.8	146.6#
51	53.6	30.0	45.0#
0	0.0	0.0	0.0



INTERNAL STANDARD CHECK REPORT

000043

Method : OLMO3W1.M
Instrument ID : HP1
Continuing Calibration File : B2967.D
Sample File : B2974.D
Acquisition Date & Time : 4 Apr 96 13:51
Sample Name : FER61
Misc Info : HP1*USEPA*15410.06*5mL*MS317
Operator : JR

Istd	Name	Sample Area	Cont. Calib Area	Lower Limit	Upper Limit	Status
CI01	Bromochloromethan	124222	138782	69391	277564	OK
CI10	1,4-Difluorobenze	620519	669674	334837	1339348	OK
CI20	D5-Chlorobenzene	515816	546409	273205	1092818	OK

Istd	Name	Sample R.Time	Cont. Calib R.Time	Lower R.Time	Upper R.Time	Status
CI01	Bromochloromethan	9.91	9.86	9.36	10.36	OK
CI10	1,4-Difluorobenze	10.95	10.89	10.39	11.39	OK
CI20	D5-Chlorobenzene	14.24	14.16	13.66	14.66	OK

SURROGATE RECOVERY REPORT

000044

Sample File : B2974.D
Sample Name : FER61
Misc Info : HP1*USEPA*15410.06*5mL*MS317
Acquisition Date & Time : 4 Apr 96 13:51
Method : OLMO3W1.M
Instrument ID : HP1
Operator : JR

Surrogate	Sample Conc	Spike Amt.	Water Limits	% Rec.
CS15 D4-1,2-Dichloroet	51.16	50.00	76-114	102.3
CS05 D8-Toluene SU2	52.24	50.00	88-110	104.5
CS10 p-Bromofluorobenz	53.02	50.00	86-115	106.0

LINEARITY CHECK REPORT

Compound Name	Detected Concentration	Max. Allowed Concentration

All Compounds within Linear Range

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET **000046**

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FER62

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541007

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2981

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 17:36

Data File: C:\040496A\B2981.D

000047

Name: FER62

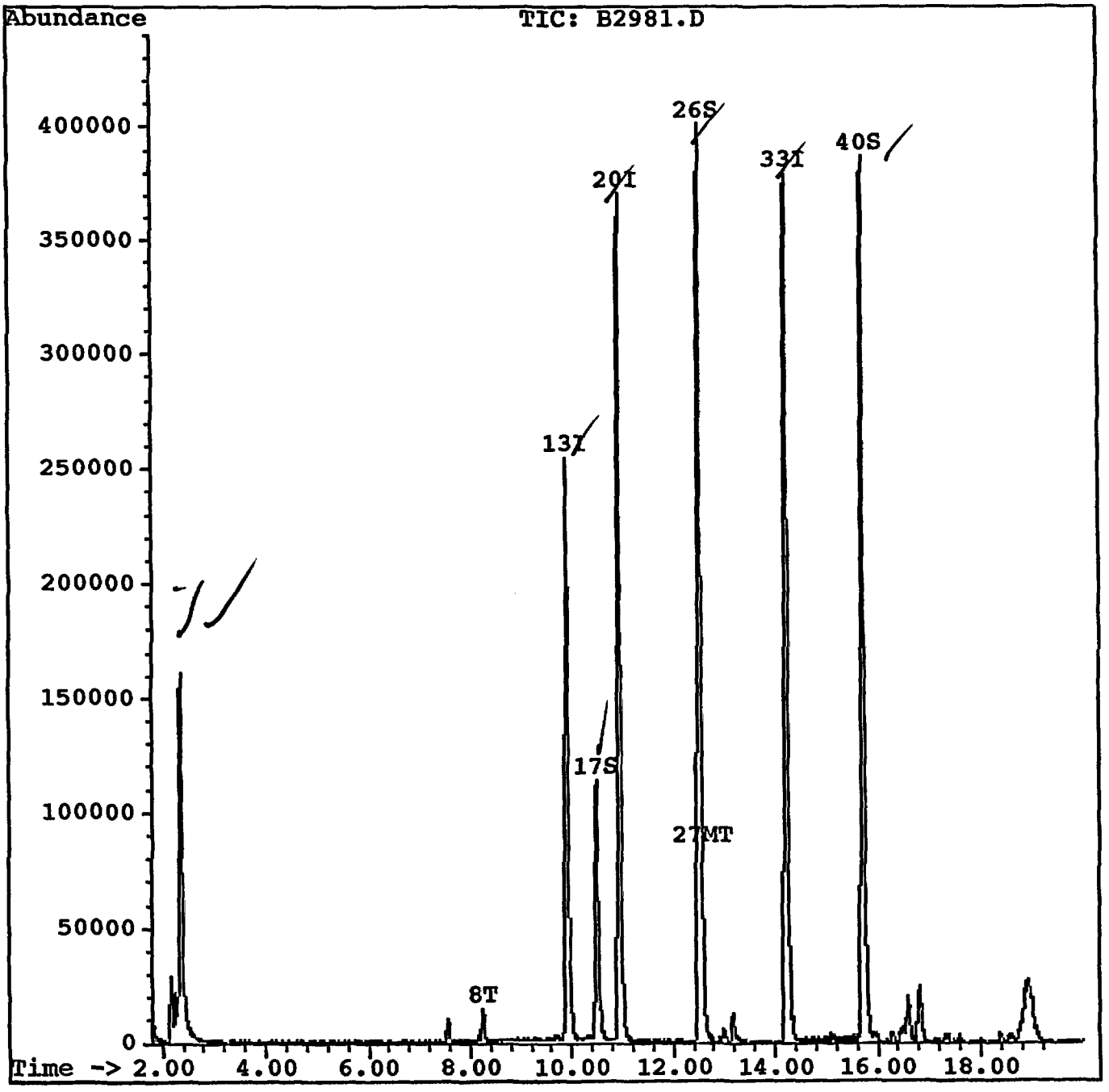
Misc: HP1*USEPA*15410.07*5mL*MS317

Method: OLMO3W1.M Inst: HP1

Title: OLMO3.0 WATER

Last Calibration: Thu Apr 04 14:28:42 1996

Quantitated using Single Level Calibration



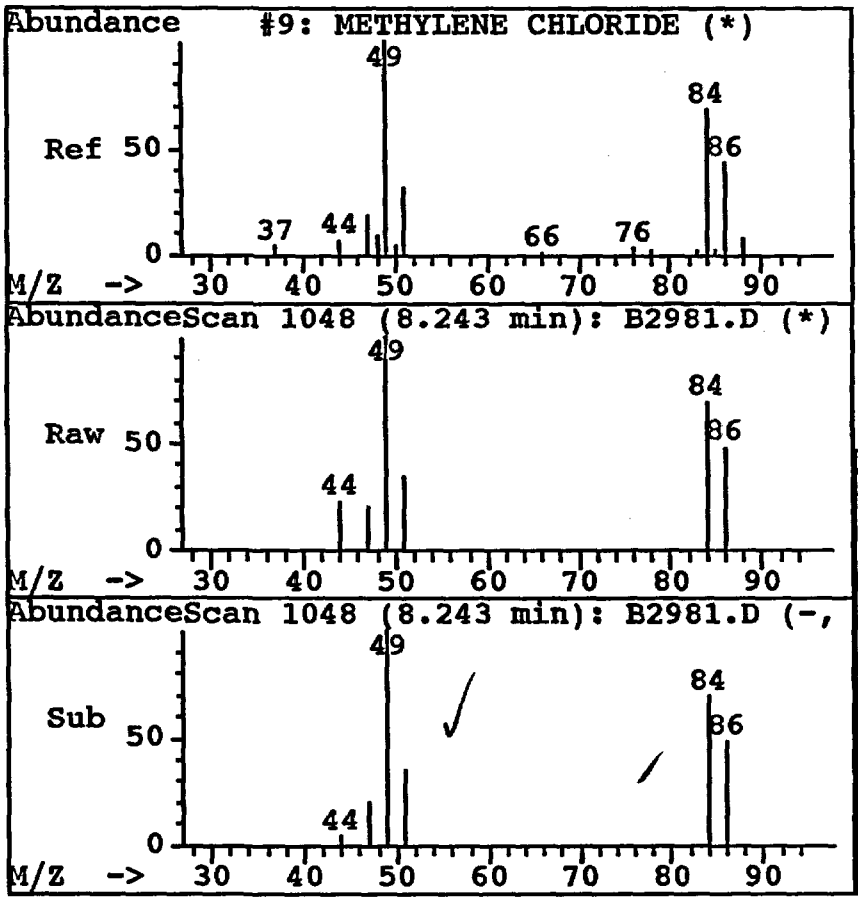
QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 17:36
Data File: C:\040496A\B2981.D
Name: FER62
Misc: HP1*USEPA*15410.07*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration

000048

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.91	128	133283	50.00	ug/L	0.05
20) CI10 1,4-Difluorobenzene	10.93	114	663462	50.00	ug/L	0.04
33) CI20 D5-Chlorobenzene	14.23	117	552358	50.00	ug/L	0.07
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.50	65	152983	50.76	ug/L	101.51%
26) CS05 D8-Toluene SU2	12.52	98	653047	52.53	ug/L	105.06%
40) CS10 p-Bromofluorobenzene	15.72	95	426967	53.12	ug/L	106.25%
Target Compounds						ISTD#
8) C030 Methylene chloride	8.24	84	11559	2.66	ug/L	001#
27) C230 Toluene	12.59	91	42784	3.07	ug/L	003

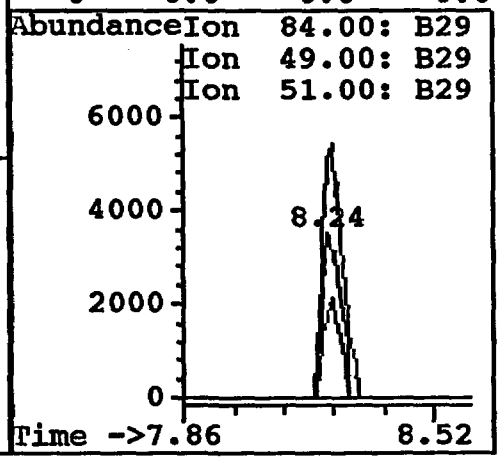
(#) = qualifier out of range

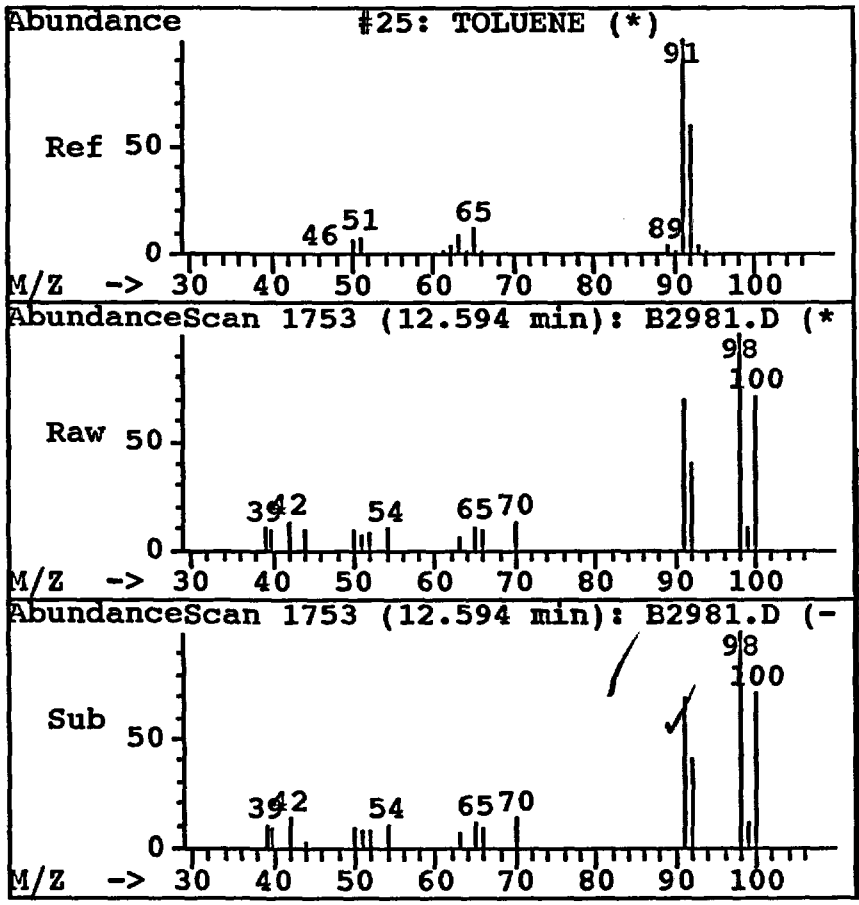


#8 Inst: HP1
C030 Methylene chloride
Concen: 2.66 ug/L
RT: 8.24 min Scan# 1048
Delta R.T. 0.03 min
Lab File: B2981.D
Acq: 4 Apr 96 17:36
FER62

Tgt Ion: 84 Area: 11559

Ion	Ratio	Lower	Upper
84	100		
49	168.3	97.8	146.6#
51	54.7	30.0	45.0#
0	0.0	0.0	0.0

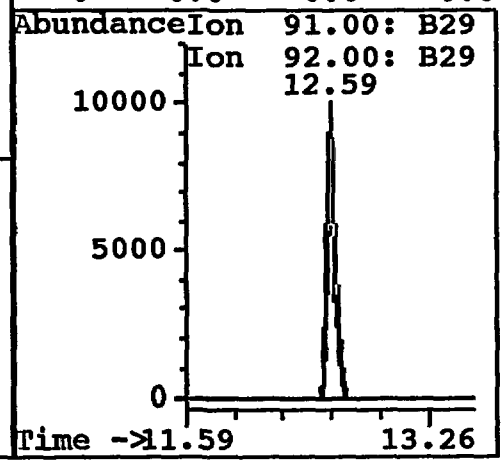




#27 Inst: HP1
C230 Toluene
Concen: 3.07 ug/L
RT: 12.59 min Scan# 1753
Delta R.T. 0.05 min
Lab File: B2981.D
Acq: 4 Apr 96 17:36
FER62

Tgt Ion: 91 Area: 42784

Ion	Ratio	Lower	Upper
91	100		
92	58.1	48.0	72.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



INTERNAL STANDARD CHECK REPORT

000050

Method : OLMO3W1.M
Instrument ID : HP1
Continuing Calibration File : B2967.D
Sample File : B2981.D
Acquisition Date & Time : 4 Apr 96 17:36
Sample Name : FER62
Misc Info : HP1*USEPA*15410.07*5mL*MS317
Operator : JR

Istd	Name	Sample Area	Cont. Calib Area	Lower Limit	Upper Limit	Status
CI01	Bromochloromethan	133283	138782	69391	277564	OK
CI10	1,4-Difluorobenze	663462	669674	334837	1339348	OK
CI20	D5-Chlorobenzene	552358	546409	273205	1092818	OK

Istd	Name	Sample R.Time	Cont. Calib R.Time	Lower R.Time	Upper R.Time	Status
CI01	Bromochloromethan	9.91	9.86	9.36	10.36	OK
CI10	1,4-Difluorobenze	10.93	10.89	10.39	11.39	OK
CI20	D5-Chlorobenzene	14.23	14.16	13.66	14.66	OK

SURROGATE RECOVERY REPORT

000051

Sample File : B2981.D
Sample Name : FER62
Misc Info : HP1*USEPA*15410.07*5mL*MS317
Acquisition Date & Time : 4 Apr 96 17:36
Method : OLMO3W1.M
Instrument ID : HP1
Operator : JR

Surrogate	Sample Conc	Spike Amt.	Water Limits	% Rec.
CS15 D4-1,2-Dichloroet	50.76	50.00	76-114	101.5
CS05 D8-Toluene SU2	52.53	50.00	88-110	105.1
CS10 p-Bromofluorobenz	53.12	50.00	86-115	106.2

LINEARITY CHECK REPORT

Compound Name	Detected Concentration	Max. Allowed Concentration

All Compounds within Linear Range

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000053

EPA SAMPLE NO.

FES98

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541008

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2980

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 128-37-0	Butylated Hydroxytoluene	18.52	110	JN

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 17:09

Data File: C:\040496A\B2980.D

000054

Name: FES98

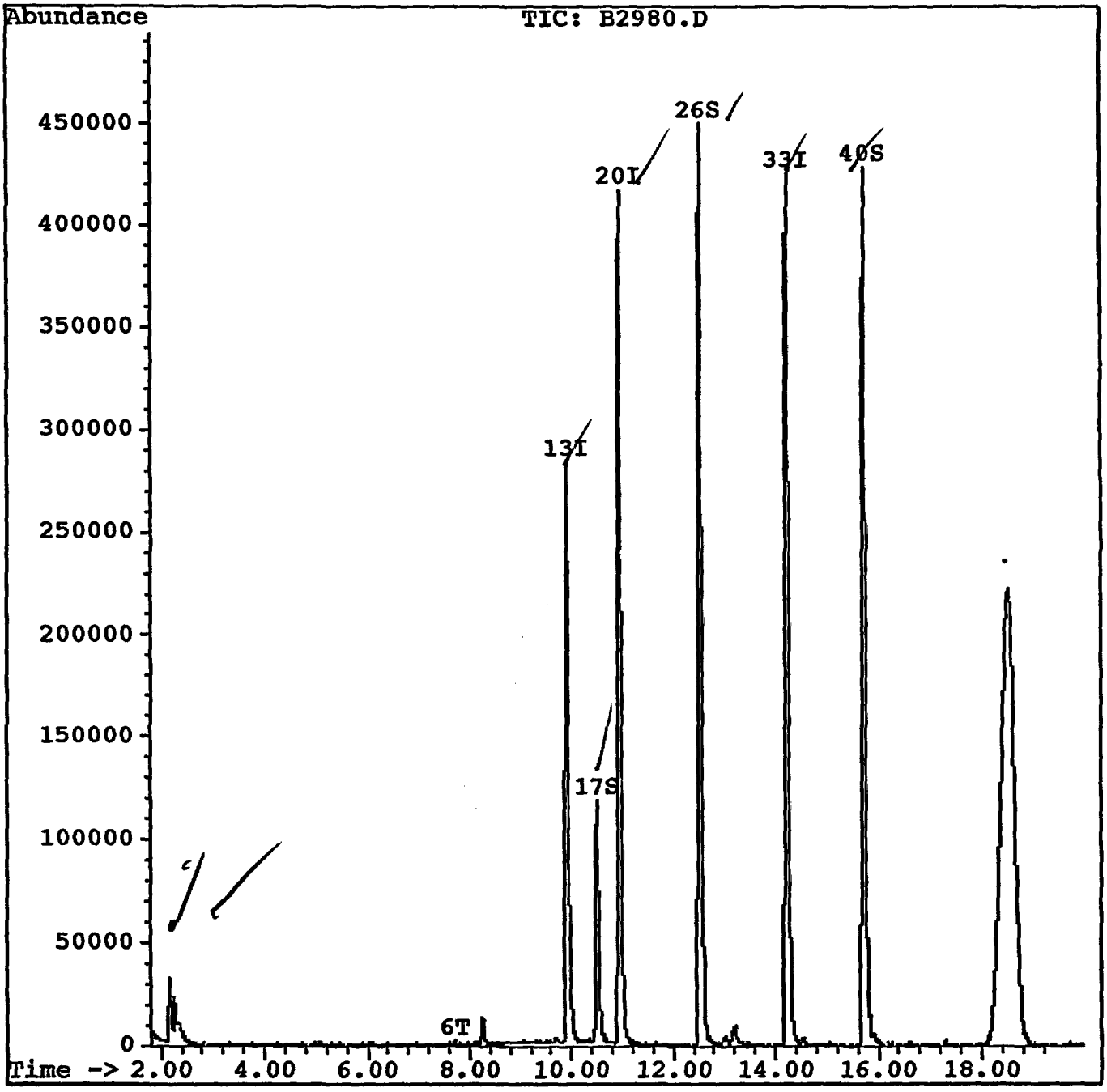
Misc: HP1*USEPA*15410.08*5mL*MS317

Method: OLMO3W1.M Inst: HP1

Title: OLMO3.0 WATER

Last Calibration: Thu Apr 04 14:28:42 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 17:09
Data File: C:\040496A\B2980.D
Name: FES98
Misc: HP1*USEPA*15410.08*5mL*MS317 000055
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.92	128	150301	50.00	ug/L	0.06
20) CI10 1,4-Difluorobenzene	10.94	114	746532	50.00	ug/L	0.05
33) CI20 D5-Chlorobenzene	14.22	117	618981	50.00	ug/L	0.06
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.51	65	168727	49.64	ug/L	99.28%
26) CS05 D8-Toluene SU2	12.52	98	731611	52.51	ug/L	105.03%
40) CS10 p-Bromofluorobenzene	15.72	95	473987	52.63	ug/L	105.25%
Target Compounds						ISTD#
6) ~~C035 Acetone~~	~~7.71~~	~~43~~	~~2796~~	~~2.99~~	~~ug/L FP~~	001#

FP = false positive 04/1996

(#) = qualifier out of range

Tentatively Identified Compound (LSC)

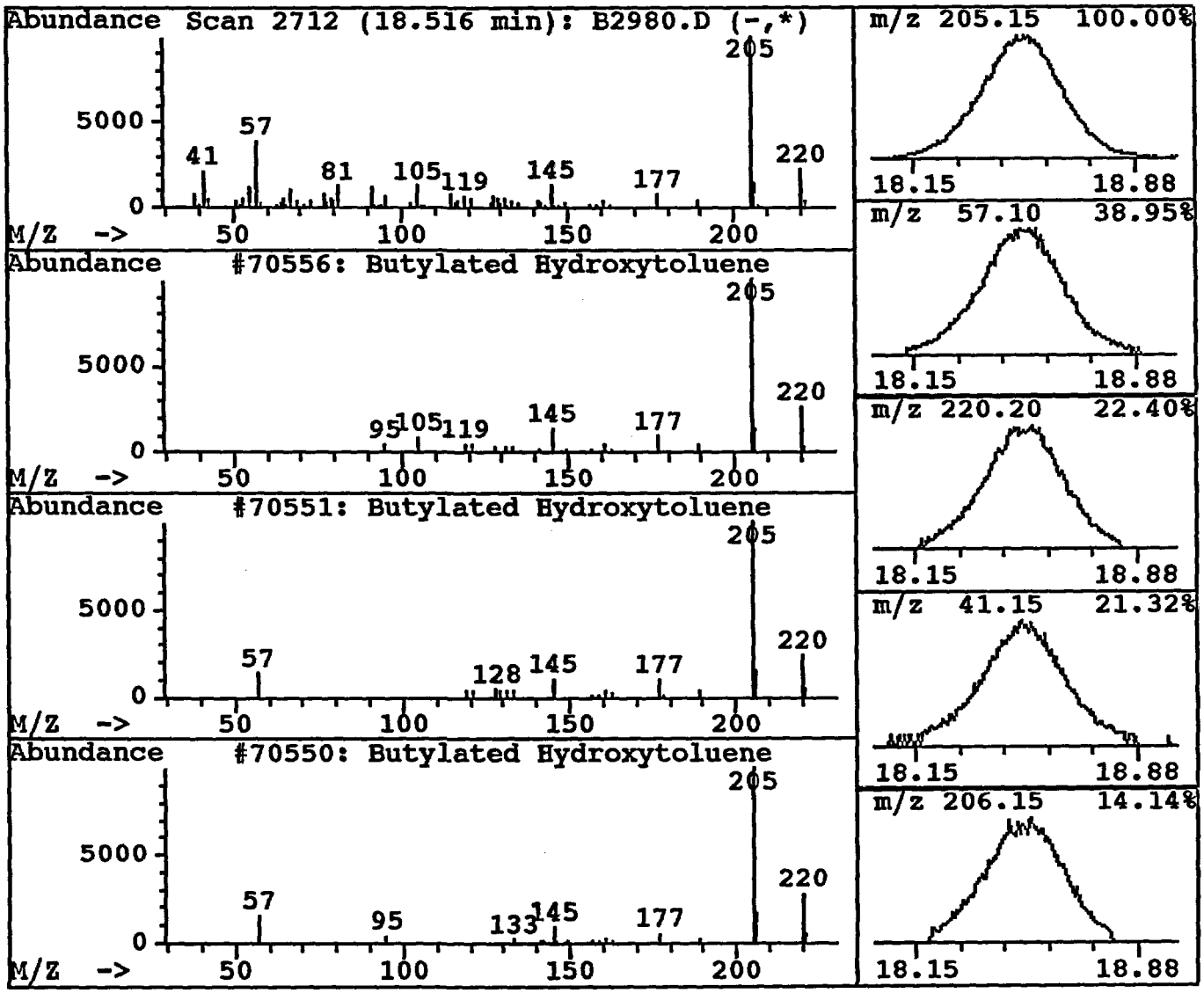
000056

Operator ID: JR Date Acquired: 4 Apr 96 17:09
Data File: C:\040496A\B2980.D
Name: FES98
Misc: HP1*USEPA*15410.08*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996

Library Searched: NBS75K.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.52	109.48 ug/L	4089366	CI20 D5-Chlorobenzene	1867697

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Butylated Hydroxytoluene	70556	000128-37-0	98
2	Butylated Hydroxytoluene	70551	000128-37-0	98
3	Butylated Hydroxytoluene	70550	000128-37-0	97
4	Butylated Hydroxytoluene	70555	000128-37-0	96
5	Butylated Hydroxytoluene	70554	000128-37-0	95



6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AATSLA Contract: 68-D5-0023 **000057**

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Instrument ID: HP1 Calibration Date(s): 12/29/95 12/29/95

Heated Purge: (Y/N): N Calibration Times: 0846 1120

GC Column: CAP ID: 0.530(mm)

LAB FILE ID: RRF10 = B1173 RRF20 = B1172
RRF50= B1168 RRF100= B1171 RRF200= B1170

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane		1.402	1.463	1.476	1.676	1.852	1.574	11.8
Bromomethane	*	2.212	2.061	2.093	2.301	2.518	2.237	8.2*
Vinyl Chloride	*	1.820	1.729	1.818	2.138	2.338	1.969	13.1*
Chloroethane		1.202	1.136	1.097	1.304	1.389	1.226	9.8
Methylene Chloride		1.954	1.800	1.661	1.979	2.074	1.894	8.6
Acetone		0.381	0.326	0.200	0.247	0.217	0.274	28.0
Carbon Disulfide		5.098	4.623	4.658	5.471	5.710	5.112	9.4
1,1-Dichloroethene	*	1.892	1.777	1.868	2.085	2.179	1.960	8.5*
1,1-Dichloroethane	*	3.188	2.959	2.805	3.353	3.530	3.167	9.2*
1,2-Dichloroethene (total)		1.841	1.702	1.706	1.972	2.068	1.858	8.7
Chloroform	*	2.917	2.697	2.641	3.040	3.223	2.904	8.3*
1,2-Dichloroethane	*	1.767	1.694	1.462	1.718	1.733	1.675	7.3*
2-Butanone		0.599	0.557	0.300	0.390	0.327	0.435	31.2
1,1,1-Trichloroethane	*	0.382	0.385	0.376	0.425	0.435	0.401	6.8*
Carbon Tetrachloride	*	0.403	0.388	0.398	0.435	0.458	0.416	7.0*
Bromodichloromethane	*	0.602	0.566	0.537	0.620	0.616	0.588	6.1*
1,2-Dichloropropane		0.443	0.406	0.353	0.445	0.434	0.416	9.3
cis-1,3-Dichloropropene	*	0.552	0.508	0.476	0.562	0.565	0.533	7.3*
Trichloroethene	*	0.407	0.402	0.389	0.469	0.469	0.427	9.1*
Dibromochloromethane	*	0.509	0.485	0.444	0.539	0.530	0.501	7.6*
1,1,2-Trichloroethane	*	0.332	0.324	0.259	0.339	0.313	0.313	10.2*
Benzene	*	0.985	0.912	0.776	0.952	0.933	0.912	8.8*
trans-1,3-Dichloropropene	*	0.427	0.378	0.357	0.428	0.427	0.403	8.3*
Bromoform	*	0.318	0.316	0.271	0.350	0.328	0.317	9.1*
4-Methyl-2-Pentanone		0.373	0.432	0.212	0.372	0.288	0.335	25.7
2-Hexanone		0.257	0.318	0.128	0.241	0.177	0.224	32.8
Tetrachloroethene	*	0.396	0.360	0.386	0.443	0.464	0.410	10.4*
1,1,2,2-Tetrachloroethane	*	0.634	0.711	0.451	0.638	0.562	0.599	16.4*
Toluene	*	1.331	1.246	1.118	1.327	1.329	1.270	7.3*
Chlorobenzene	*	1.011	0.943	0.903	1.072	1.098	1.005	8.2*
Ethylbenzene	*	0.464	0.422	0.400	0.472	0.470	0.446	7.3*
Styrene	*	0.994	0.961	0.874	1.040	1.028	0.979	6.8*
Xylene (total)	*	0.580	0.550	0.508	0.595	0.606	0.568	7.0*
Toluene-d8		1.244	1.144	1.166	1.230	1.228	1.202	3.7
Bromofluorobenzene	*	0.780	0.710	0.724	0.770	0.771	0.751	4.2*
1,2-Dichloroethane-d4		1.498	1.333	1.298	1.432	1.480	1.408	6.3

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

All calibrations are copies
Originals retained at RD
Inst: HP1 AATSLA 043096
Pages 000058 To 000082

Calibration Table Status Report

Method: OLM03W.M Protocol: CLP 3/90
Title: OLM03.0 12/29/95
Calibration Date: Fri Dec 29 12:02:31 1995

Calibration File IDs

200	=B1170.D	100	=B1171.D	20	=B1172.D
10	=B1173.D	50	=B1168.D		

	Compound	200	100	20	10	50	Avg	%RSD
13	CI01 Bromochloromethan	----------			ISTD	----------		
1	C010 Chloromethane	1.852	1.676	1.463	1.402	1.480	1.575	11.81
2	C020 Vinyl chloride	2.342	2.138	1.729	1.820	1.820	1.970	13.17
3	C015 Bromomethane	2.518	2.301	2.061	2.212	2.093	2.237	8.21
4	C025 Chloroethane	1.389	1.306	1.136	1.202	1.097	1.226	9.85
5	C045 1,1-Dichloroethen	2.179	2.085	1.777	1.892	1.867	1.960	8.47
6	C035 Acetone	0.217	0.248	0.326	0.381	0.204	0.275	27.60
7	C040 Carbon disulfide	5.710	5.471	4.623	5.098	4.658	5.112	9.44
8	C030 Methylene chlorid	2.074	1.979	1.800	1.954	1.661	1.894	8.62
9	C053 trans-1,2-Dichlor	2.129	2.032	1.737	1.903	1.797	1.920	8.46
10	C050 1,1-Dichloroethan	3.530	3.353	2.959	3.188	2.805	3.167	9.22
11	C055 cis-1,2-Dichloroe	2.007	1.911	1.667	1.779	1.614	1.795	9.14
12	C110 2-Butanone	0.327	0.390	0.557	0.599	0.300	0.435	31.21
14	C060 Chloroform	3.223	3.040	2.697	2.917	2.641	2.904	8.31
17	CS15 D4-1,2-Dichloroet	1.480	1.432	1.333	1.498	1.298	1.408	6.30
19	C065 1,2-Dichloroethan	1.733	1.718	1.694	1.767	1.462	1.675	7.26
20	CI10 1,4-Difluorobenze	----------			ISTD	----------		
15	C115 1,1,1,-Trichloroe	0.435	0.425	0.385	0.382	0.376	0.401	6.84
16	C120 Carbon tetrachlor	0.458	0.435	0.388	0.403	0.398	0.416	6.98
18	C165 Benzene	0.933	0.952	0.912	0.985	0.776	0.912	8.83
21	C150 Trichloroethene	0.469	0.469	0.402	0.407	0.389	0.427	9.08
22	C140 1,2-Dichloropropa	0.434	0.445	0.406	0.443	0.353	0.416	9.30
23	C130 Bromodichlorometh	0.616	0.620	0.566	0.602	0.537	0.588	6.10
24	C143 cis-1,3-Dichlorop	0.565	0.562	0.508	0.552	0.476	0.533	7.34
28	C172 trans-1,3-Dichlor	0.427	0.428	0.378	0.427	0.357	0.404	8.32
29	C160 1,1,2-Trichloroet	0.313	0.339	0.324	0.332	0.259	0.313	10.26
32	C155 Dibromochlorometh	0.530	0.539	0.485	0.509	0.444	0.501	7.59
39	C180 Bromoform	0.328	0.350	0.316	0.318	0.271	0.317	9.07
33	CI20 D5-Chlorobenzene	----------			ISTD	----------		
25	C205 4-Methyl-2-pentan	0.288	0.372	0.432	0.373	0.212	0.335	25.60
26	CS05 D8-Toluene SU2	1.228	1.230	1.144	1.244	1.166	1.202	3.69
27	C230 Toluene	1.329	1.327	1.246	1.331	1.118	1.270	7.28
30	C220 Tetrachloroethene	0.464	0.443	0.360	0.396	0.386	0.410	10.43
31	C210 2-Hexanone	0.177	0.241	0.318	0.257	0.128	0.224	32.88
34	C235 Chlorobenzene	1.098	1.072	0.943	1.011	0.903	1.005	8.21
35	C240 Ethyl benzene	0.470	0.472	0.422	0.464	0.400	0.446	7.37
36	C299 m,p-Xylene	0.625	0.594	0.560	0.592	0.514	0.577	7.30
37	C250 o-Xylene	0.606	0.595	0.550	0.580	0.508	0.568	6.93
38	C245 Styrene	1.028	1.040	0.961	0.994	0.874	0.980	6.77
40	CS10 p-Bromofluorobenz	0.771	0.770	0.710	0.780	0.723	0.751	4.21
41	C225 1,1,2,2-Tetrachlo	0.562	0.638	0.711	0.634	0.451	0.599	16.39

* = QC Criteria Failed ** = % RSD > 40, Calibration Failed
# = Minimun RF Failed, % RSD Passed

QUANT REPORT

000059

Operator ID: JR Date Acquired: 29 Dec 95 08:46
Data File: C:\122995A\B1168.D
Name: VSTD050 IV V-95-384
Misc: HP1*AATSLA*VSTD050*5mL*MS317
Method: OLMO3W.M Inst: HP1
Title: OLMO3.0 12/29/95
Last Calibration: Fri Dec 29 12:02:31 1995
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	10.05	128	157476	50.00	ug/L	-0.00
20) CI10 1,4-Difluorobenzene	11.11	114	900134	50.00	ug/L	-0.00
33) CI20 D5-Chlorobenzene	14.48	117	749415	50.00	ug/L	-0.00
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.65	65	204392	50.00	ug/L	100.00%
26) CS05 D8-Toluene SU2	12.73	98	874177	50.00	ug/L	100.00%
40) CS10 p-Bromofluorobenzene	16.00	95	542202	50.00	ug/L	100.00%
Target Compounds						ISTD#
1) C010 Chloromethane	4.07	50	232423	50.06	ug/L	001#
2) C020 Vinyl chloride	4.67	62	286296	49.96	ug/L	001#
3) C015 Bromomethane	5.80	94	329675	50.17	ug/L	001#
4) C025 Chloroethane	6.14	64	172701	49.88	ug/L	001#
5) C045 1,1-Dichloroethene	7.61	96	294087	50.00	ug/L	001
6) C035 Acetone	7.79	43	31422	48.87	ug/L	001#
7) C040 Carbon disulfide	7.83	76	733509	50.00	ug/L	001
8) C030 Methylene chloride	8.33	84	261498	50.00	ug/L	001
9) C053 trans-1,2-Dichloroeth	8.66	96	282934	50.00	ug/L	001
10) C050 1,1-Dichloroethane	9.14	63	441767	50.00	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.79	96	254108	50.00	ug/L	001
12) C110 2-Butanone	9.84	43	47245	50.00	ug/L	001#
14) C060 Chloroform	10.14	83	415910	50.00	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.34	97	338646	50.00	ug/L	002#
16) C120 Carbon tetrachloride	10.52	117	358008	50.00	ug/L	002#
18) C165 Benzene	10.72	78	698234	50.00	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.73	62	230286	50.00	ug/L	001#
21) C150 Trichloroethene	11.41	130	350384	50.00	ug/L	002
22) C140 1,2-Dichloropropane	11.64	63	317714	50.00	ug/L	002#
23) C130 Bromodichloromethane	11.93	83	483059	50.00	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.42	75	428310	49.92	ug/L	002
25) C205 4-Methyl-2-pentanone	12.59	43	159030	50.00	ug/L	003#
27) C230 Toluene	12.81	91	837864	50.00	ug/L	003
28) C172 trans-1,3-Dichloropro	13.03	75	321514	50.00	ug/L	002
29) C160 1,1,2-Trichloroethane	13.26	97	232808	50.00	ug/L	002
30) C220 Tetrachloroethene	13.47	164	289303	50.00	ug/L	003
31) C210 2-Hexanone	13.55	43	95654	50.00	ug/L	003#
32) C155 Dibromochloromethane	13.76	129	399865	50.00	ug/L	002#
34) C235 Chlorobenzene	14.51	112	677001	50.00	ug/L	003#
35) C240 Ethyl benzene	14.64	106	299610	50.00	ug/L	003
36) C299 m,p-Xylene	14.79	106	769661	100.00	ug/L	003
37) C250 o-Xylene	15.31	106	380978	50.00	ug/L	003
38) C245 Styrene	15.32	104	655304	50.00	ug/L	003
39) C180 Bromoform	15.57	173	244079	50.00	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 08:46
Data File: C:\122995A\B1168.D
Name: VSTD050IV V-95-384
Misc: HP1*AATSLA*VSTD050*5mL*MS317
Method: OLM03W.M Inst: HP1
Title: OLM03.0 12/29/95
Last Calibration: Fri Dec 29 12:02:31 1995
Quantitated using Single Level Calibration

000060

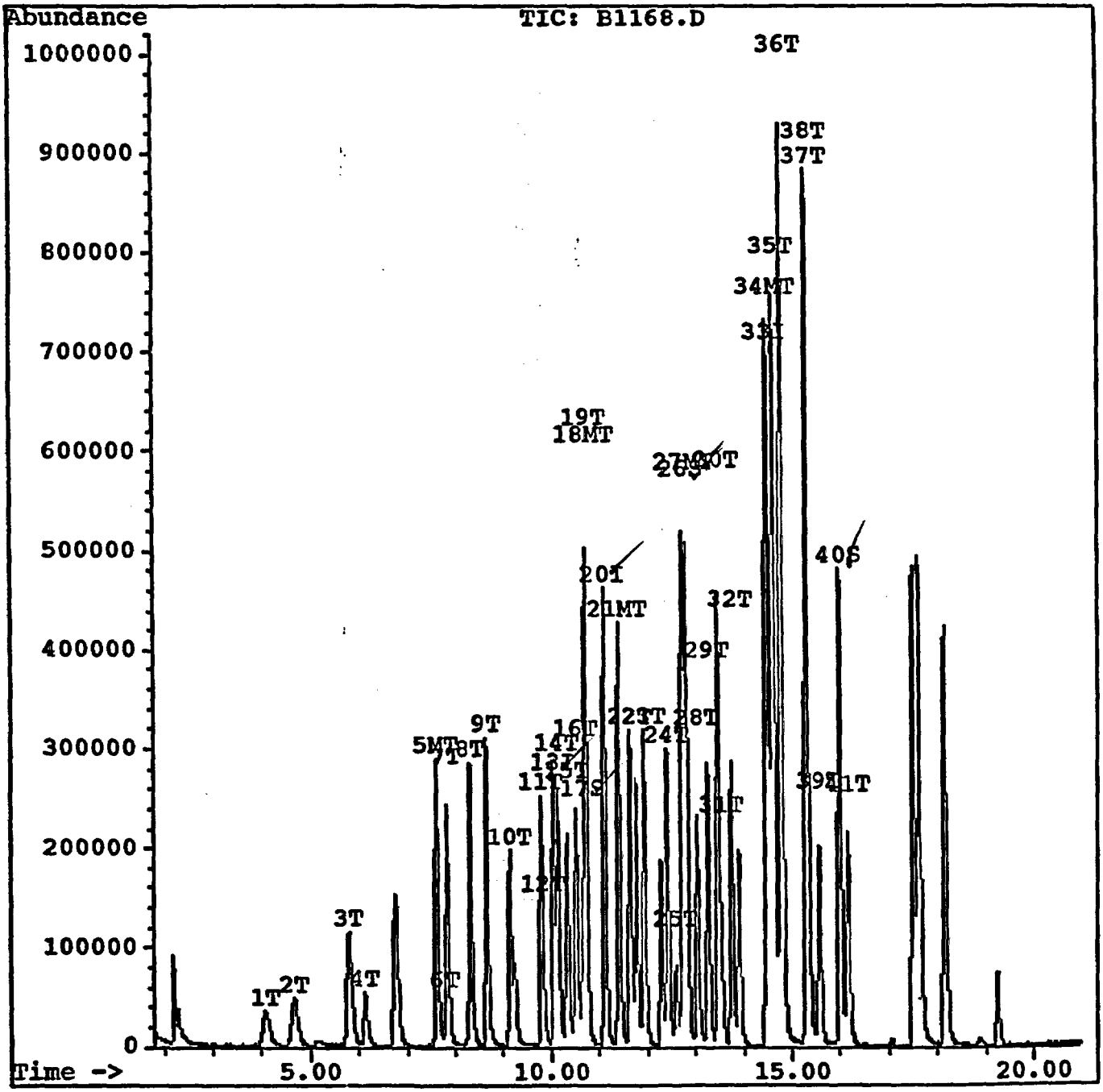
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	16.17	83	337678	50.00	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 08:46
Data File: C:\122995A\B1168.D
Name: VSTD050/ V-95-384
Misc: HP1*AATSLA*VSTD050*5mL*MS317
Method: OLMO3W.M Inst: HP1
Title: OLMO3.0 12/29/95
Last Calibration: Fri Dec 29 12:02:31 1995
Quantitated using Single Level Calibration

000061



QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 09:55

Data File: C:\122995A\B1170.D 000062

Name: VSTD200 IV V-95-385 17

Misc: HP1*AATSLA*VSTD200*5mL*MS317

Method: OLMO3W.M Inst: HP1

Title: OLMO3.0 12/29/95

Last Calibration: Fri Dec 29 12:02:31 1995

Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	10.09	128	126952	50.00	ug/L	0.04
20) CI10 1,4-Difluorobenzene	11.16	114	757882	50.00	ug/L	0.04
33) CI20 D5-Chlorobenzene	14.52	117	610158	50.00	ug/L	0.04

System Monitoring Compounds

						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.70	65	751372	228.00	ug/L	456.00%
26) CS05 D8-Toluene SU2	12.78	98	2996709	210.52	ug/L	421.04%
40) CS10 p-Bromofluorobenzene	16.03	95	1881303	213.08	ug/L	426.16%

Target Compounds

						ISTD#
1) C010 Chloromethane	4.08	50	940642	251.30	ug/L	001#
2) C020 Vinyl chloride	4.67	62	1187507	257.08	ug/L	001#
3) C015 Bromomethane	5.80	94	1278563	241.37	ug/L	001#
4) C025 Chloroethane	6.14	64	705346	252.70	ug/L	001#
5) C045 1,1-Dichloroethene	7.64	96	1106310	233.32	ug/L	001
6) C035 Acetone	7.84	43	110049	212.33	ug/L	001
7) C040 Carbon disulfide	7.86	76	2899723	245.19	ug/L	001
8) C030 Methylene chloride	8.36	84	1053366	249.84	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.70	96	1081321	237.04	ug/L	001
10) C050 1,1-Dichloroethane	9.18	63	1792557	251.67	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.83	96	1019062	248.73	ug/L	001
12) C110 2-Butanone	9.89	43	166030	217.96	ug/L	001
14) C060 Chloroform	10.18	83	1636871	244.10	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.38	97	1319741	231.43	ug/L	002#
16) C120 Carbon tetrachloride	10.56	117	1387846	230.21	ug/L	002#
18) C165 Benzene	10.76	78	2828369	240.55	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.78	62	880049	237.02	ug/L	001#
21) C150 Trichloroethene	11.45	130	1423165	241.21	ug/L	002
22) C140 1,2-Dichloropropane	11.69	63	1315377	245.86	ug/L	002#
23) C130 Bromodichloromethane	11.98	83	1868666	229.72	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.47	75	1713624	237.19	ug/L	002
25) C205 4-Methyl-2-pentanone	12.64	43	702745	271.37	ug/L	003#
27) C230 Toluene	12.86	91	3243476	237.73	ug/L	003
28) C172 trans-1,3-Dichloropro	13.08	75	1294250	239.05	ug/L	002
29) C160 1,1,2-Trichloroethane	13.31	97	948680	241.99	ug/L	002
30) C220 Tetrachloroethene	13.52	164	1132004	240.29	ug/L	003
31) C210 2-Hexanone	13.60	43	432219	277.49	ug/L	003#
32) C155 Dibromochloromethane	13.80	129	1605846	238.49	ug/L	002#
34) C235 Chlorobenzene	14.55	112	2679039	243.02	ug/L	003#
35) C240 Ethyl benzene	14.69	106	1147588	235.22	ug/L	003
36) C299 m,p-Xylene	14.84	106	3048791	486.53	ug/L	003
37) C250 o-Xylene	15.35	106	1478198	238.28	ug/L	003
38) C245 Styrene	15.36	104	2510056	235.23	ug/L	003
39) C180 Bromoform	15.61	173	995827	242.29	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

000063

Operator ID: JR Date Acquired: 29 Dec 95 09:55

Data File: C:\122995A\B1170.D

Name: VSTD200 / V-95-385 17

Misc: HP1*AATSLA*VSTD200*5mL*MS317

Method: OLM03W.M Inst: HP1

Title: OLM03.0 12/29/95

Last Calibration: Fri Dec 29 12:02:31 1995

Quantitated using Single Level Calibration

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	16.20	83	1372577	249.62	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 09:55

Data File: C:\122995A\B1170.D

Name: VSTD200/V V-95-385

Misc: HP1*AATSLA*VSTD200*5mL*MS317

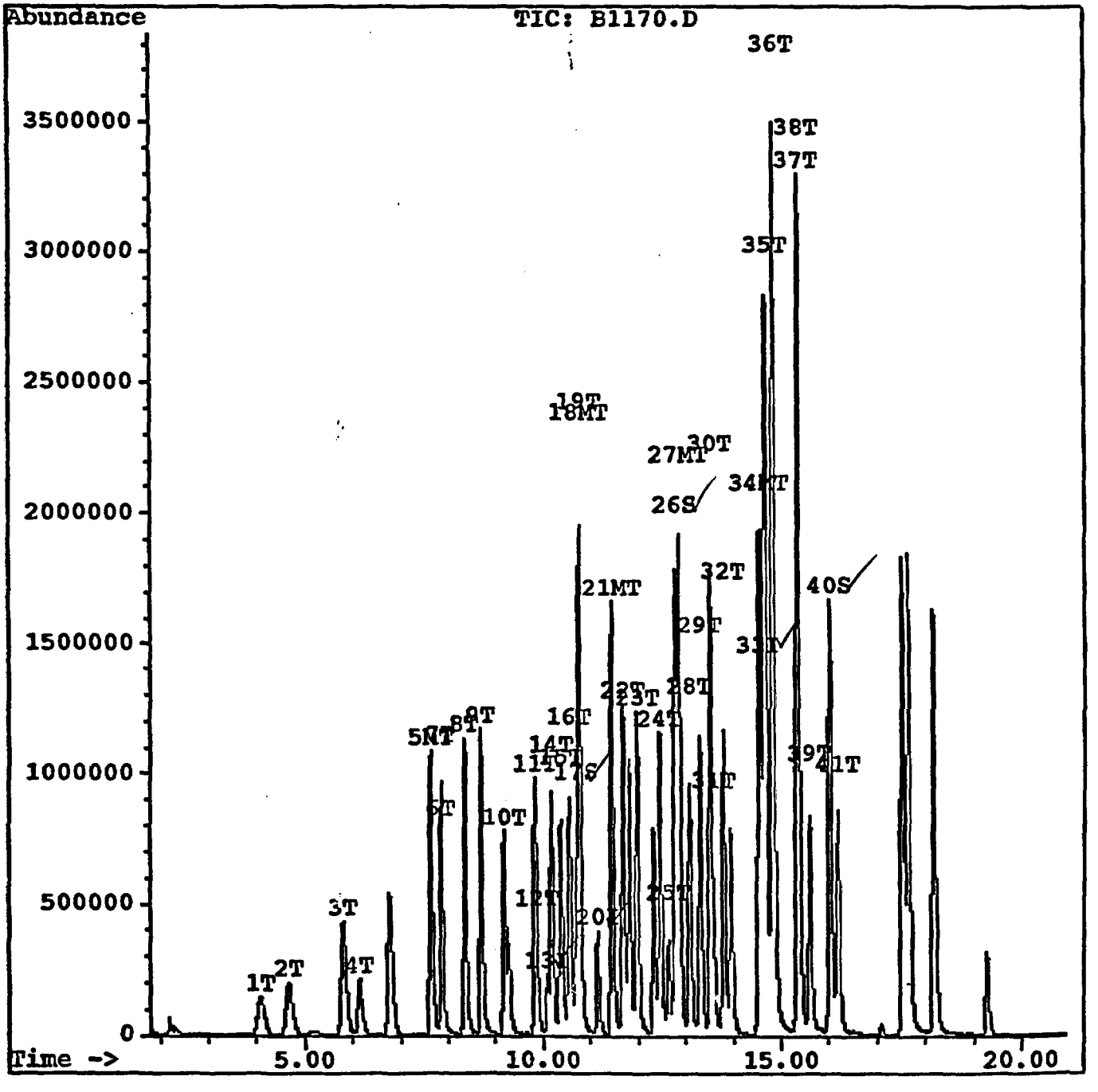
Method: OLMO3W.M Inst: HP1

Title: OLMO3.0 12/29/95

Last Calibration: Fri Dec 29 12:02:31 1995

Quantitated using Single Level Calibration

000064 17



QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 10:24
Data File: C:\122995A\B1171.D 000065
Name: VSTD100 /√ 7/1/9/96 IV-95-386 18
Misc: HP1*AATSLA*VSTD100*5mL*MS317
Method: OLMO3W.M Inst: HP1
Title: OLMO3.0 12/29/95
Last Calibration: Fri Dec 29 12:02:31 1995
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	10.09	128	140406	50.00	ug/L	0.00
20) CI10 1,4-Difluorobenzene	11.16	114	792017	50.00	ug/L	0.00
33) CI20 D5-Chlorobenzene	14.54	117	643335	50.00	ug/L	0.02

System Monitoring Compounds

						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.70	65	402166	110.34	ug/L	220.69%
26) CS05 D8-Toluene SU2	12.80	98	1582457	105.44	ug/L	210.87%
40) CS10 p-Bromofluorobenzene	16.06	95	990707	106.42	ug/L	212.85%

Target Compounds

						ISTD#
1) C010 Chloromethane	4.11	50	470540	113.66	ug/L	001#
2) C020 Vinyl chloride	4.70	62	600426	117.53	ug/L	001#
3) C015 Bromomethane	5.82	94	646064	110.28	ug/L	001#
4) C025 Chloroethane	6.16	64	366040	118.57	ug/L	001#
5) C045 1,1-Dichloroethene	7.64	96	585526	111.65	ug/L	001
6) C035 Acetone	7.83	43	69312	120.92	ug/L	001
7) C040 Carbon disulfide	7.86	76	1536212	117.45	ug/L	001
8) C030 Methylene chloride	8.35	84	555667	119.16	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.69	96	570638	113.10	ug/L	001
10) C050 1,1-Dichloroethane	9.18	63	941684	119.54	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.84	96	536630	118.43	ug/L	001
12) C110 2-Butanone	9.89	43	109559	130.04	ug/L	001
14) C060 Chloroform	10.18	83	853711	115.11	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.38	97	673636	113.04	ug/L	002#
16) C120 Carbon tetrachloride	10.56	117	688764	109.33	ug/L	002#
18) C165 Benzene	10.77	78	1508696	122.78	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.78	62	482354	117.46	ug/L	001#
21) C150 Trichloroethene	11.46	130	743092	120.51	ug/L	002
22) C140 1,2-Dichloropropane	11.70	63	705221	126.13	ug/L	002#
23) C130 Bromodichloromethane	11.99	83	981553	115.47	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.48	75	890259	117.91	ug/L	002
25) C205 4-Methyl-2-pentanone	12.65	43	478984	175.43	ug/L	003#
27) C230 Toluene	12.88	91	1707818	118.72	ug/L	003
28) C172 trans-1,3-Dichloropro	13.10	75	678449	119.91	ug/L	002
29) C160 1,1,2-Trichloroethane	13.32	97	537733	131.25	ug/L	002
30) C220 Tetrachloroethene	13.53	164	570001	114.76	ug/L	003
31) C210 2-Hexanone	13.63	43	309674	188.56	ug/L	003#
32) C155 Dibromochloromethane	13.82	129	853232	121.25	ug/L	002#
34) C235 Chlorobenzene	14.59	112	1378743	118.62	ug/L	003#
35) C240 Ethyl benzene	14.71	106	607183	118.04	ug/L	003
36) C299 m,p-Xylene	14.86	106	1528750	231.38	ug/L	003
37) C250 o-Xylene	15.38	106	765891	117.09	ug/L	003
38) C245 Styrene	15.38	104	1337561	118.88	ug/L	003
39) C180 Bromoform	15.64	173	553871	128.95	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 10:24
Data File: C:\122995A\B1171.D 2/1/6/96
Name: VSTD100/1 V-95-386
Misc: HP1*AATSLA*VSTD100*5mL*MS317
Method: OLMO3W.M Inst: HP1
Title: OLMO3.0 12/29/95
Last Calibration: Fri Dec 29 12:02:31 1995
Quantitated using Single Level Calibration

000066
18

Compound	R.T.	Qion	Area	Conc Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	16.23	83	821328	141.67 ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 10:24

000067

Data File: C:\122995A\B1171.D 7/1/96

Name: VSTD100/V V-95-386 18

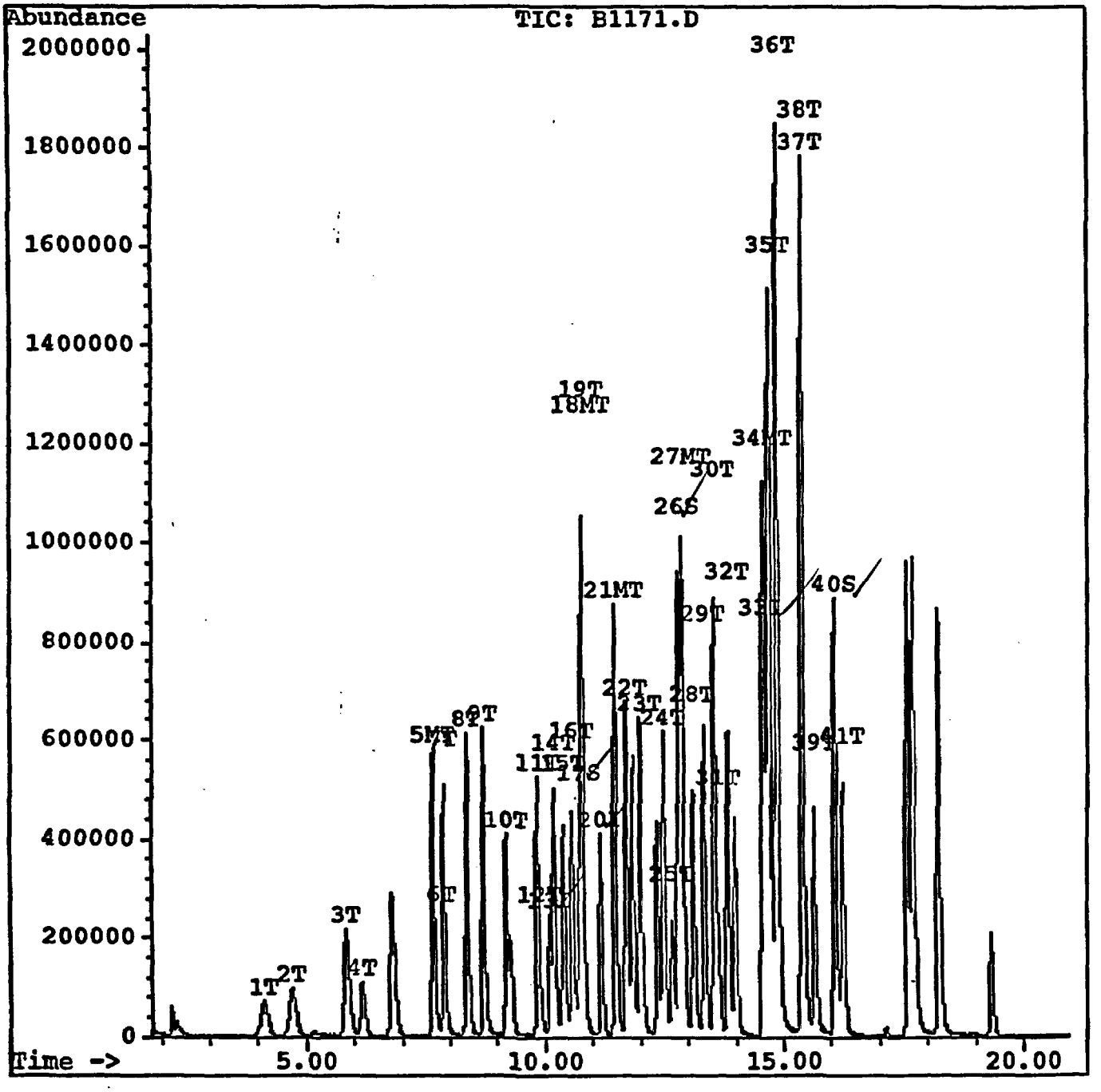
Misc: HP1*AATSLA*VSTD100*5mL*MS317

Method: OLMO3W.M Inst: HP1

Title: OLMO3.0 12/29/95

Last Calibration: Fri Dec 29 12:02:31 1995

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 10:52

000068

Data File: C:\122995A\B1172.D

Name: VSTD020/V V-95-387 22

Misc: HP1*AATSLA*VSTD020*5mL*MS317

Method: OLMO3W.M Inst: HP1

Title: OLMO3.0 12/29/95

Last Calibration: Fri Dec 29 12:02:31 1995

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	10.11	128	119533	50.00	ug/L	0.06
20) CI10 1,4-Difluorobenzene	11.17	114	659829	50.00	ug/L	0.06
33) CI20 D5-Chlorobenzene	14.54	117	537919	50.00	ug/L	0.06
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.72	65	63744	20.54	ug/L	41.09%
26) CS05 D8-Toluene SU2	12.80	98	246127	19.61	ug/L	39.23%
40) CS10 p-Bromofluorobenzene	16.06	95	152819	19.63	ug/L	39.27%
Target Compounds						ISTD#
1) C010 Chloromethane	4.10	50	69973	19.78	ug/L	001#
2) C020 Vinyl chloride	4.70	62	82663	18.99	ug/L	001#
3) C015 Bromomethane	5.83	94	98551	19.69	ug/L	001#
4) C025 Chloroethane	6.16	64	54326	20.72	ug/L	001#
5) C045 1,1-Dichloroethene	7.65	96	84961	19.03	ug/L	001
6) C035 Acetone	7.82	43	15607	31.98	ug/L	001#
7) C040 Carbon disulfide	7.88	76	221044	19.85	ug/L	001
8) C030 Methylene chloride	8.36	84	86083	21.68	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.71	96	83033	19.33	ug/L	001
10) C050 1,1-Dichloroethane	9.20	63	141503	21.10	ug/L	001#
11) C055 cis-1,2-Dichloroethen	9.85	96	79714	20.66	ug/L	001
12) C110 2-Butanone	9.90	43	26629	37.13	ug/L	001#
14) C060 Chloroform	10.21	83	128956	20.42	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.39	97	101665	20.48	ug/L	002#
16) C120 Carbon tetrachloride	10.59	117	102469	19.52	ug/L	002#
18) C165 Benzene	10.78	78	240679	23.51	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.80	62	80996	23.17	ug/L	001#
21) C150 Trichloroethene	11.48	130	106061	20.65	ug/L	002
22) C140 1,2-Dichloropropane	11.70	63	107190	23.01	ug/L	002#
23) C130 Bromodichloromethane	12.00	83	149262	21.08	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.49	75	134118	21.36	ug/L	002
25) C205 4-Methyl-2-pentanone	12.66	43	92907	40.70	ug/L	003#
27) C230 Toluene	12.88	91	268079	22.29	ug/L	003
28) C172 trans-1,3-Dichloropro	13.11	75	99774	21.17	ug/L	002
29) C160 1,1,2-Trichloroethane	13.33	97	85397	25.02	ug/L	002
30) C220 Tetrachloroethene	13.55	164	77372	18.63	ug/L	003
31) C210 2-Hexanone	13.62	43	68452	49.85	ug/L	003#
32) C155 Dibromochloromethane	13.82	129	128003	21.83	ug/L	002#
34) C235 Chlorobenzene	14.58	112	202894	20.88	ug/L	003#
35) C240 Ethyl benzene	14.70	106	90770	21.10	ug/L	003
36) C299 m,p-Xylene	14.86	106	241079	43.64	ug/L	003
37) C250 o-Xylene	15.37	106	118308	21.63	ug/L	003
38) C245 Styrene	15.38	104	206837	21.99	ug/L	003
39) C180 Bromoform	15.64	173	83376	23.30	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 10:52

Data File: C:\122995A\B1172.D 12/29/95 000069

Name: VSTD020/V V-95-387 22

Misc: HP1*AATSLA*VSTD020*5mL*MS317

Method: OLMO3W.M Inst: HP1

Title: OLMO3.0 12/29/95

Last Calibration: Fri Dec 29 12:02:31 1995

Quantitated using Single Level Calibration

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	16.22	83	152878	31.54	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

000070

Operator ID: JR Date Acquired: 29 Dec 95 10:52

Data File: C:\122995A\B1172.D

Name: VSTD020/ V-95-387 22

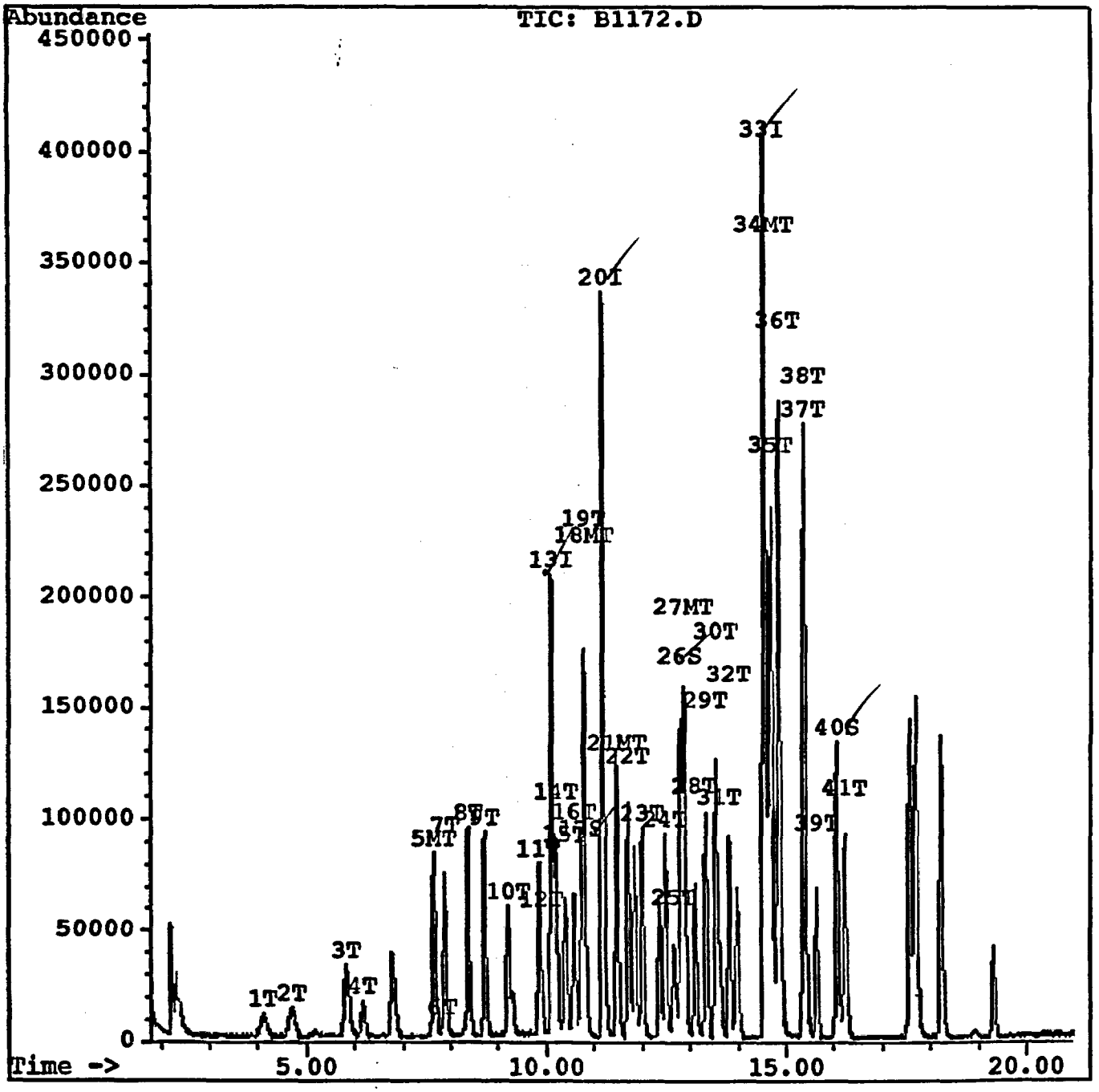
Misc: HP1*AATSLA*VSTD020*5mL*MS317

Method: OLMO3W.M Inst: HP1

Title: OLMO3.0 12/29/95

Last Calibration: Fri Dec 29 12:02:31 1995

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 11:20
Data File: C:\122995A\B1173.D 2/1/9/96
Name: VSTD010 / V-95-388 000071 23
Misc: HP1*AATSLA*VSTD010*5mL*MS317
Method: OLMO3W.M Inst: HP1
Title: OLMO3.0 12/29/95
Last Calibration: Fri Dec 29 12:02:31 1995
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	10.11	128	139724	50.00	ug/L	-0.00
20) CI10 1,4-Difluorobenzene	11.18	114	788677	50.00	ug/L	0.01
33) CI20 D5-Chlorobenzene	14.55	117	642039	50.00	ug/L	0.01

System Monitoring Compounds

						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.71	65	41854	11.54	ug/L	23.08%
26) CS05 D8-Toluene SU2	12.80	98	159791	10.67	ug/L	21.34%
40) CS10 p-Bromofluorobenzene	16.06	95	100133	10.78	ug/L	21.56%

Target Compounds

						ISTD#
1) C010 Chloromethane	4.10	50	39192	9.48	ug/L	001#
2) C020 Vinyl chloride	4.68	62	50871	10.00	ug/L	001#
3) C015 Bromomethane	5.83	94	61821	10.57	ug/L	001#
4) C025 Chloroethane	6.16	64	33587	10.96	ug/L	001#
5) C045 1,1-Dichloroethene	7.66	96	52860	10.13	ug/L	001
6) C035 Acetone	7.81	43	10653	18.68	ug/L	001#
7) C040 Carbon disulfide	7.88	76	142463	10.94	ug/L	001
8) C030 Methylene chloride	8.37	84	54611	11.77	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.71	96	53190	10.59	ug/L	001
10) C050 1,1-Dichloroethane	9.19	63	89097	11.37	ug/L	001#
11) C055 cis-1,2-Dichloroethen	9.86	96	49712	11.02	ug/L	001
12) C110 2-Butanone	9.90	43	16730	19.95	ug/L	001#
14) C060 Chloroform	10.21	83	81524	11.05	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.40	97	60209	10.15	ug/L	002#
16) C120 Carbon tetrachloride	10.58	117	63561	10.13	ug/L	002#
18) C165 Benzene	10.79	78	155317	12.69	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.80	62	49366	12.08	ug/L	001#
21) C150 Trichloroethene	11.48	130	64210	10.46	ug/L	002
22) C140 1,2-Dichloropropane	11.71	63	69945	12.56	ug/L	002#
23) C130 Bromodichloromethane	12.01	83	94983	11.22	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.49	75	87013	11.59	ug/L	002
25) C205 4-Methyl-2-pentanone	12.66	43	47900	17.58	ug/L	003#
27) C230 Toluene	12.88	91	170924	11.91	ug/L	003
28) C172 trans-1,3-Dichloropro	13.10	75	67361	11.96	ug/L	002
29) C160 1,1,2-Trichloroethane	13.34	97	52401	12.84	ug/L	002
30) C220 Tetrachloroethene	13.54	164	50819	10.25	ug/L	003
31) C210 2-Hexanone	13.64	43	33048	20.16	ug/L	003#
32) C155 Dibromochloromethane	13.82	129	80364	11.47	ug/L	002#
34) C235 Chlorobenzene	14.58	112	129825	11.19	ug/L	003#
35) C240 Ethyl benzene	14.71	106	59643	11.62	ug/L	003
36) C299 m,p-Xylene	14.86	106	151995	23.05	ug/L	003
37) C250 o-Xylene	15.36	106	74467	11.41	ug/L	003
38) C245 Styrene	15.38	104	127681	11.37	ug/L	003
39) C180 Bromoform	15.63	173	50195	11.74	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 11:20
Data File: C:\122995A\B1173.D
Name: VSTD010 V-95-388
Misc: HP1*AATSLA*VSTD010*5mL*MS317
Method: OLMO3W.M Inst: HP1
Title: OLMO3.0 12/29/95
Last Calibration: Fri Dec 29 12:02:31 1995
Quantitated using Single Level Calibration

000072

23

Compound	R.T.	Qion	Area	Conc Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	16.22	83	81387	14.07 ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 29 Dec 95 11:20

Data File: C:\122995A\B1173.D

000073

Name: VSTD010 V-95-388 23

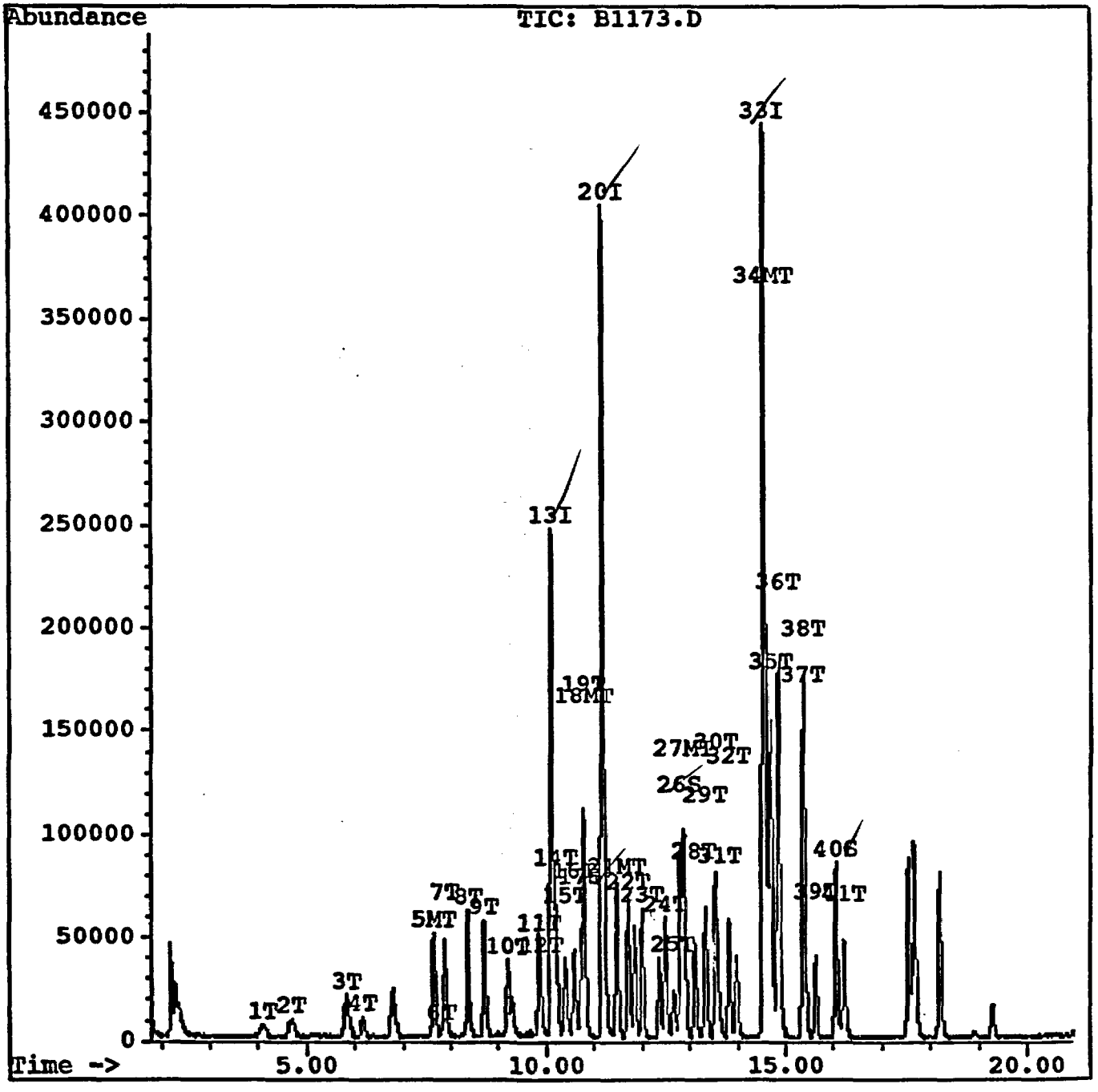
Misc: HP1*AATSLA*VSTD010*5mL*MS317

Method: OLMO3W.M Inst: HP1

Title: OLMO3.0 12/29/95

Last Calibration: Fri Dec 29 12:02:31 1995

Quantitated using Single Level Calibration



7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Instrument ID: HP1 Calibration date: 04/04/96 Time: 1014

Lab File ID: B2967 Init. Calib. Date(s): 12/29/95 12/29/95

Heated Purge: (Y/N) N Init. Calib. Times: 0846 1120

GC Column: CAP ID: 0.530 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.574	0.568		-63.9	
Bromomethane	2.237	1.850	0.100	-17.3	25.0
Vinyl Chloride	1.969	1.264	0.100	-35.8	25.0
Chloroethane	1.226	1.239		1.1	
Methylene Chloride	1.894	1.628		-14.0	
Acetone	0.274	0.311		13.5	
Carbon Disulfide	5.112	4.942		-3.3	
1,1-Dichloroethene	1.960	1.651	0.100	-15.8	25.0
1,1-Dichloroethane	3.167	3.075	0.200	-2.9	25.0
1,2-Dichloroethene (total)	1.858	1.610		-13.4	
Chloroform	2.904	2.856	0.200	-1.7	25.0
1,2-Dichloroethane	1.675	1.368	0.100	-18.3	25.0
2-Butanone	0.435	0.472		8.5	
1,1,1-Trichloroethane	0.401	0.472	0.100	17.7	25.0
Carbon Tetrachloride	0.416	0.486	0.100	16.8	25.0
Bromodichloromethane	0.588	0.602	0.200	2.4	25.0
1,2-Dichloropropane	0.416	0.426		2.4	
cis-1,3-Dichloropropene	0.533	0.560	0.200	5.1	25.0
Trichloroethene	0.427	0.404	0.300	-5.4	25.0
Dibromochloromethane	0.501	0.520	0.100	3.8	25.0
1,1,2-Trichloroethane	0.313	0.304	0.100	-2.9	25.0
Benzene	0.912	0.722	0.500	-20.8	25.0
trans-1,3-Dichloropropene	0.403	0.459	0.100	13.9	25.0
Bromoform	0.317	0.326	0.100	2.8	25.0
4-Methyl-2-Pentanone	0.335	0.359		7.2	
2-Hexanone	0.224	0.235		4.9	
Tetrachloroethene	0.410	0.373	0.200	-9.0	25.0
1,1,2,2-Tetrachloroethane	0.599	0.567	0.500	-5.3	25.0
Toluene	1.270	1.260	0.400	-0.8	25.0
Chlorobenzene	1.005	0.945	0.500	-6.0	25.0
Ethylbenzene	0.446	0.389	0.100	-12.8	25.0
Styrene	0.979	0.852	0.300	-13.0	25.0
Xylene (total)	0.568	0.537	0.300	-5.5	25.0
Toluene-d8	1.202	1.125		-6.4	
Bromofluorobenzene	0.751	0.728	0.200	-3.1	25.0
1,2-Dichloroethane-d4	1.408	1.131		-19.7	

All other compounds must meet a minimum RRF of 0.010.

CONTINUING CALIBRATION REPORT

Method: OLM03W1.M Protocol: CLP 3/90

Title: OLM03.0 WATER

000075

Continuing Calibration File: B2967.D Inst: HP1

#K#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
13	I	CI01 Bromochloromethane	1.000	1.000	0.0		
1	T	C010 Chloromethane	1.575	0.568	63.9	0.010	
2	T	C020 Vinyl chloride	1.970	~~1.984~~ 1.264	~~0.7~~ 35.9	0.100	25.0
3	T	C015 Bromomethane	2.237	1.855	17.1	0.100	25.0
4	T	C025 Chloroethane	1.226	1.239	1.0	0.010	
5	MT	C045 1,1-Dichloroethene	1.960	1.651	15.8	0.100	25.0
6	T	C035 Acetone	0.275	0.311	13.0	0.010	
7	T	C040 Carbon disulfide	5.112	4.942	3.3	0.010	
8	T	C030 Methylene chloride	1.894	1.628	14.0	0.010	
9	T	C053 trans-1,2-Dichloroethene	1.920	1.640	14.5	0.010	
10	T	C050 1,1-Dichloroethane	3.167	3.075	2.9	0.200	25.0
11	T	C055 cis-1,2-Dichloroethene	1.795	1.579	12.1	0.010	
12	T	C110 2-Butanone	0.435	0.472	8.7	0.010	
14	T	C060 Chloroform	2.904	2.856	1.7	0.200	25.0
17	S	CS15 D4-1,2-Dichloroethane SU	1.408	1.131	19.7	0.010	
19	T	C065 1,2-Dichloroethane-DCA	1.675	1.368	18.3	0.100	25.0
20	I	CI10 1,4-Difluorobenzene	1.000	1.000	0.0		
15	T	C115 1,1,1,-Trichloroethane	0.401	0.472	17.8	0.100	25.0
16	T	C120 Carbon tetrachloride	0.416	0.486	16.8	0.100	25.0
18	MT	C165 Benzene	0.912	0.722	20.8	0.500	25.0
21	MT	C150 Trichloroethene	0.427	0.404	5.4	0.300	25.0
22	T	C140 1,2-Dichloropropane	0.416	0.426	2.2	0.010	
23	T	C130 Bromodichloromethane	0.588	0.602	2.4	0.200	25.0
24	T	C143 cis-1,3-Dichloropropene	0.533	0.560	5.1	0.200	25.0
28	T	C172 trans-1,3-Dichloropropen	0.404	0.459	13.7	0.100	25.0
29	T	C160 1,1,2-Trichloroethane	0.313	0.304	2.9	0.100	25.0
32	T	C155 Dibromochloromethane	0.501	0.520	3.7	0.100	25.0
39	T	C180 Bromoform	0.317	0.326	3.0	0.100	25.0
33	I	CI20 D5-Chlorobenzene	1.000	1.000	0.0		
25	T	C205 4-Methyl-2-pentanone	0.335	0.359	7.0	0.010	
26	S	CS05 D8-Toluene SU2	1.202	1.125	6.4	0.010	
27	MT	C230 Toluene	1.270	1.260	0.8	0.400	25.0
30	T	C220 Tetrachloroethene	0.410	0.373	9.0	0.200	25.0
31	T	C210 2-Hexanone	0.224	0.235	4.7	0.010	
34	MT	C235 Chlorobenzene	1.005	0.945	6.0	0.500	25.0
35	T	C240 Ethyl benzene	0.446	0.389	12.6	0.100	25.0
36	T	C299 m,p-Xylene	0.577	0.533	7.6	0.300	25.0
37	T	C250 o-Xylene	0.568	0.537	5.4	0.300	25.0
38	T	C245 Styrene	0.980	0.852	13.0	0.300	25.0
40	S	CS10 p-Bromofluorobenzene SU3	0.751	0.728	3.1	0.200	25.0
41	T	C225 1,1,2,2-Tetrachloroethan	0.599	0.567	5.3	0.300	25.0

(*) = QC Criteria Failed (**) = > 40 % Dev., Reanalyze Standard

QUANT REPORT

000076

RD
041996

Operator ID: JR Date Acquired: 4 Apr 96 10:14
Data File: C:\040496A\B2967.D
Name: VSTD050|5 V-96-442
Misc: HP1*AATSLA*VSTD050*5g*MS317
Method: OLMO3W.M Inst: HP1 mL
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 12:25:20 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.86	128	138782	50.00	ug/L	0.00
20) CI10 1,4-Difluorobenzene	10.89	114	669674	50.00	ug/L	-0.04
34) CI20 D5-Chlorobenzene	14.16	117	546409	50.00	ug/L	-0.08
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.46	65	156924	50.00	ug/L	99.99%
26) CS05 D8-Toluene SU2	12.47	98	614916	49.39	ug/L	98.78%
40) CS10 p-Bromofluorobenzene	15.66	95	397533	48.31	ug/L	96.62%
Target Compounds						**ISTD#**
1) C010 Chloromethane	4.01	50	78875	49.66	ug/L	001#
2) C020 Vinyl chloride	4.60	62	175361	49.84	ug/L	001#
3) C015 Bromomethane	5.73	94	256710	49.89	ug/L	001#
4) C025 Chloroethane	6.05	64	171927	49.97	ug/L	001#
5) C045 1,1-Dichloroethene	7.53	96	229090	50.09	ug/L	001#
6) C035 Acetone	7.68	43	43170	50.03	ug/L	001#
7) C040 Carbon disulfide	7.75	76	685876	49.83	ug/L	001
8) C030 Methylene chloride	8.21	84	225931	50.06	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.54	96	227662	49.98	ug/L	001
10) C050 1,1-Dichloroethane	9.00	63	426745	50.28	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.63	96	219110	50.00	ug/L	001
12) C110 2-Butanone	9.65	43	65550	50.41	ug/L	001#
14) C060 Chloroform	9.95	83	396314	50.05	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.15	97	316114	50.10	ug/L	002#
16) C120 Carbon tetrachloride	10.32	117	325714	50.09	ug/L	002#
18) C165 Benzene	10.52	78	483545	50.05	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.54	62	189861	50.01	ug/L	001#
21) C150 Trichloroethene	11.18	130	270642	50.16	ug/L	002
22) C140 1,2-Dichloropropane	11.40	63	285017	50.10	ug/L	002#
23) C130 Bromodichloromethane	11.69	83	403330	50.10	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.16	75	374797	50.20	ug/L	002
25) C205 4-Methyl-2-pentanone	12.32	43	196115	50.17	ug/L	003#
27) C230 Toluene	12.54	91	688269	49.21	ug/L	003
28) C172 trans-1,3-Dichloropro	12.76	75	307150	50.54	ug/L	002
29) C160 1,1,2-Trichloroethane	12.97	97	203434	50.36	ug/L	002
30) C220 Tetrachloroethene	13.18	164	203739	49.39	ug/L	003
31) C210 2-Hexanone	13.25	43	128262	50.02	ug/L	003#
32) C155 Dibromochloromethane	13.46	129	348278	50.09	ug/L	002#
33) C235 Chlorobenzene	14.20	112	516259	49.52	ug/L	003#
35) C240 Ethyl benzene	14.32	106	212712	48.53	ug/L	003
36) C299 m,p-Xylene	14.47	106	582202	99.74	ug/L	003
37) C250 o-Xylene	14.98	106	293595	50.37	ug/L	003
38) C245 Styrene	14.98	104	465710	49.25	ug/L	003
39) C180 Bromoform	15.23	173	218508	50.07	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 10:14

RD 000077
041996

Data File: C:\040496A\B2967.D
Name: VSTD050 J V-96-442
Misc: HP1*AATSLA*VSTD050*5g/mL*MS317
Method: OLMO3W.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 12:25:20 1996
Quantitated using Single Level Calibration

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.82	83	309933	49.41	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 10:14

RD 000078

041996

Data File: C:\040496A\B2967.D

Name: VSTD050 J V-96-442

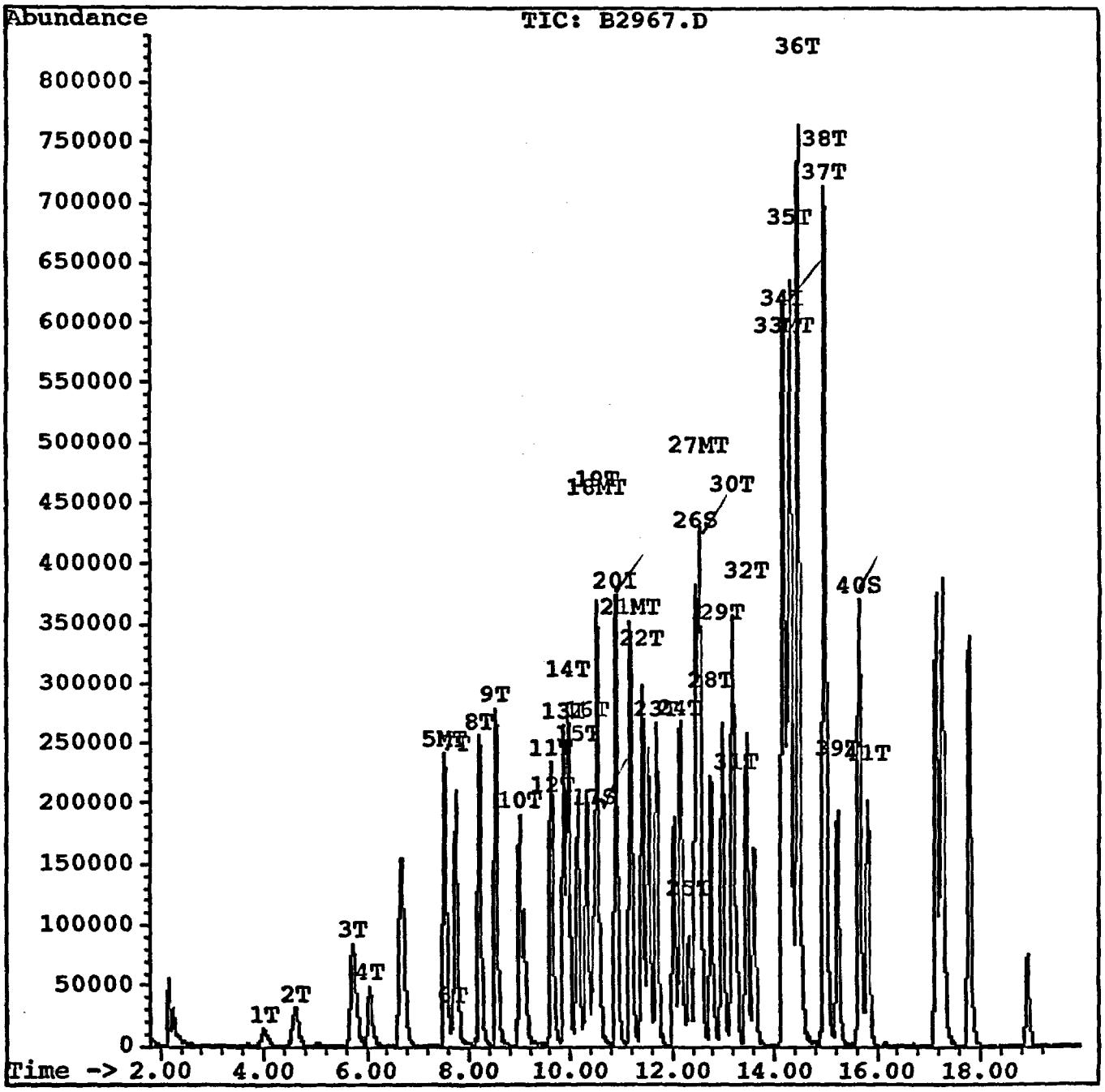
Misc: HP1*AATSLA*VSTD050*5g*MS317

Method: OLMO3W.M Inst: HP1 mL

Title: OLMO3.0 WATER

Last Calibration: Thu Apr 04 12:25:20 1996

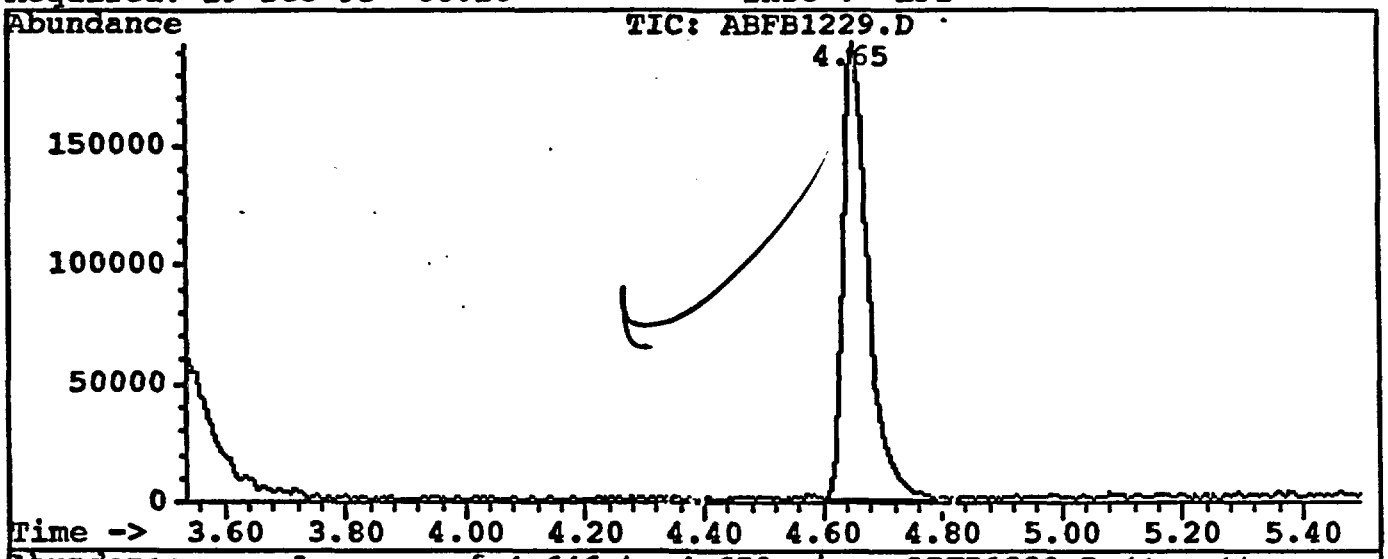
Quantitated using Single Level Calibration

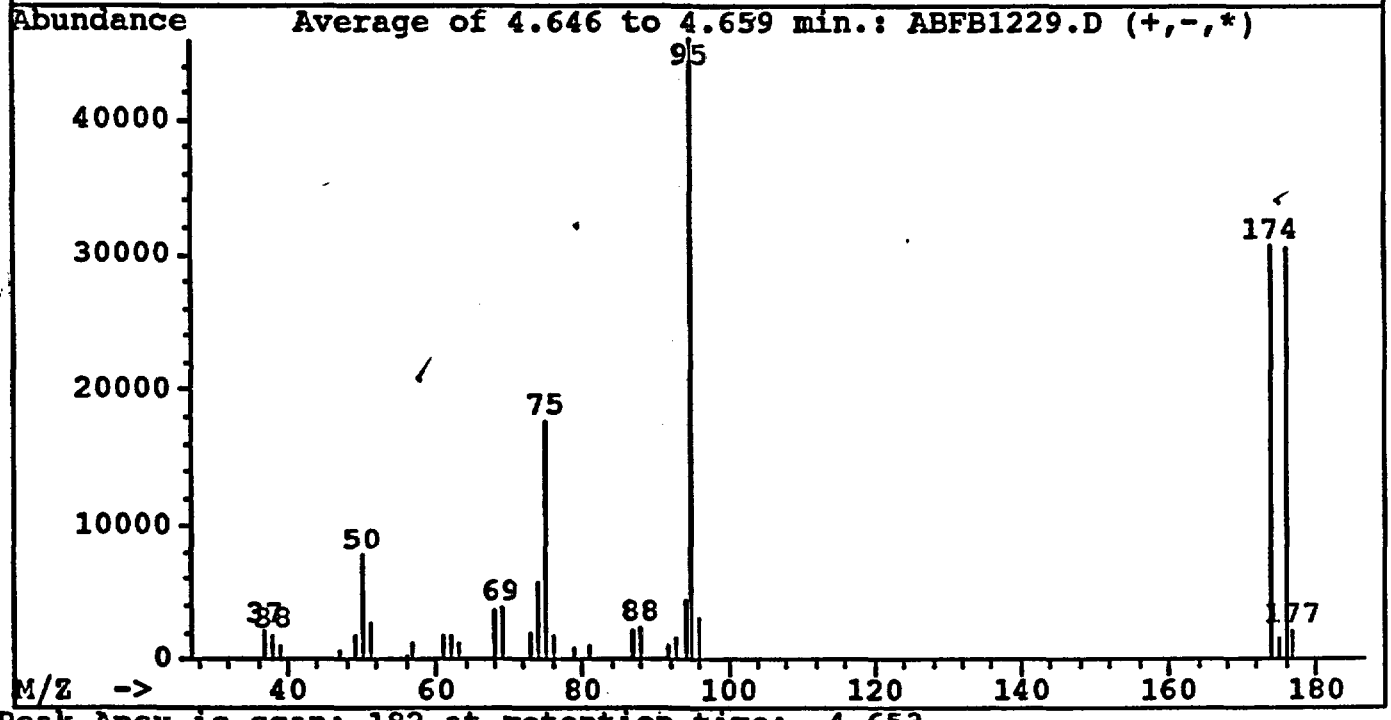


BFB Results

000079

File : C:\122995A\ABFB1229.D Analyst : JR
Acquired: 29 Dec 95 08:28 Inst : HP1





Peak Apex is scan: 182 at retention time: 4.653

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
50	95	8.00	40.00	16.75	16.75	PASS
75	95	30.00	66.00	38.38	38.38	PASS
95	95	100.00	100.00	100.00	100.00	PASS
96	95	5.00	9.00	6.66	6.66	PASS
173	174	0.00	2.00	0.00	0.00	PASS
174	95	50.00	120.00	66.53	66.53	PASS
175	174	4.00	9.00	3.47	5.22	PASS
176	174	93.00	101.00	66.31	99.67	PASS
177	176	5.00	9.00	4.62	6.96	PASS

C:\122995A\ABFB1229.D Fri Dec 29 08:33:56 1995

File: C:\122995A\ABFB1229.D
Operator: JR
Date Acquired: 29 Dec 95 8:28 am

000080

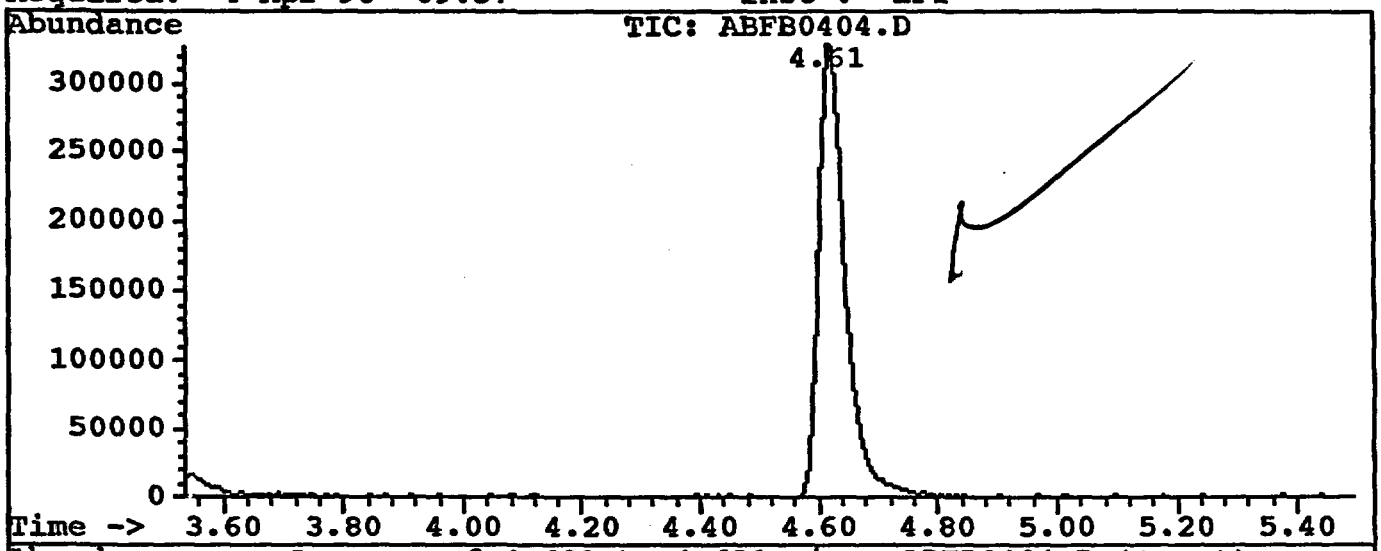
Method File: BFB624A.M
Sample Name: 50 ng on col
Misc Info: HP1*AATSLA*BFB*1uL
Vial Number : 1
Average of 4.646 to 4.659 min.: ABFB1229.D
50 ng on col
Modified:added subtracted scaled

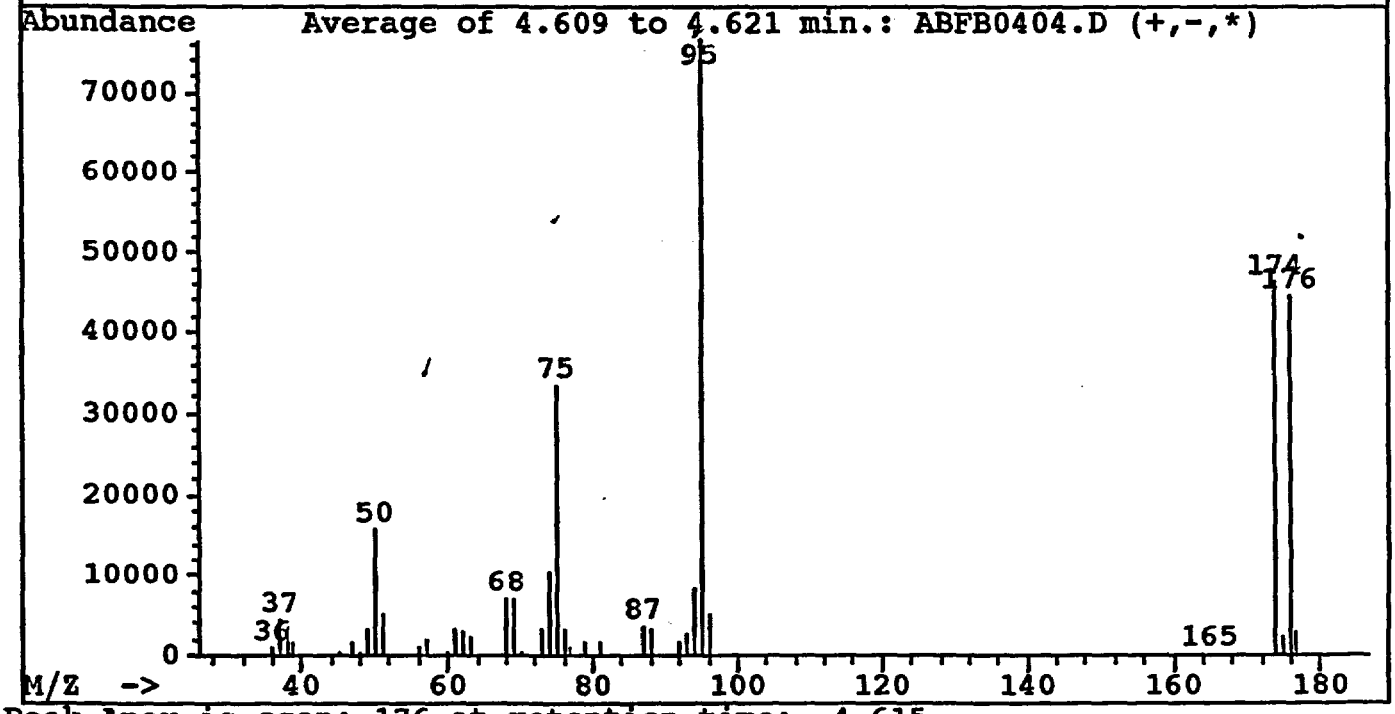
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	470	62.95	257	91.95	219		
38.00	393	68.00	777	92.95	331		
38.95	210	69.00	831	94.05	969		
47.00	132	73.00	426	95.05	10000		
48.95	367	74.05	1239	96.05	666		
50.05	1675	75.05	3838	173.95	6653		
51.05	576	76.00	363	174.95	347		
56.00	60	78.85	182	175.90	6631		
56.95	244	80.90	208	176.85	462		
60.95	375	86.90	475				
62.05	365	87.90	503				

BFB Results

000081

File : C:\040496A\ABFB0404.D Analyst : JR
Acquired: 4 Apr 96 09:57 Inst : HP1





Peak Apex is scan: 176 at retention time: 4.615

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
50	95	8.00	40.00	20.57	20.57	PASS
75	95	30.00	66.00	43.77	43.77	PASS
95	95	100.00	100.00	100.00	100.00	PASS
96	95	5.00	9.00	6.66	6.66	PASS
173	174	0.00	2.00	0.00	0.00	PASS
174	95	50.00	120.00	60.38	60.38	PASS
175	174	4.00	9.00	3.12	5.17	PASS
176	174	93.00	101.00	58.04	96.13	PASS
177	176	5.00	9.00	3.88	6.68	PASS

C:\040496A\ABFB0404.D Thu Apr 04 10:03:55 1996

000082

File: C:\040496A\ABFB0404.D
Operator: JR
Date Acquired: 4 Apr 96 9:57 am
Method File: BFB624A.M
Sample Name: 50 ng on col V-96-423
Misc Info: HP1*AATSLA*BFB*1UL
Vial Number : 1
Average of 4.609 to 4.621 min.: ABFB0404.D
50 ng on col V-96-423
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	124	56.00	134	75.05	4377	96.05	666
37.05	588	57.00	268	76.00	411	164.90	28
38.05	481	59.95	41	76.95	127	173.95	6038
39.00	215	60.95	423	78.90	211	174.95	312
43.95	29	62.05	391	80.90	214	175.90	5804
45.00	30	63.05	291	86.90	479	176.85	388
47.00	207	68.05	917	87.90	417		
47.95	58	69.00	907	92.00	225		
49.00	433	70.00	59	92.95	336		
50.05	2057	73.05	434	94.05	1059		
51.05	668	74.05	1376	95.05	10000		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET **000083** EPA SAMPLE NO.

VBLK1J

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: VBLK1J

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2970

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

EPA SAMPLE NO.

VBLK1J

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: VBLK1J

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2970

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

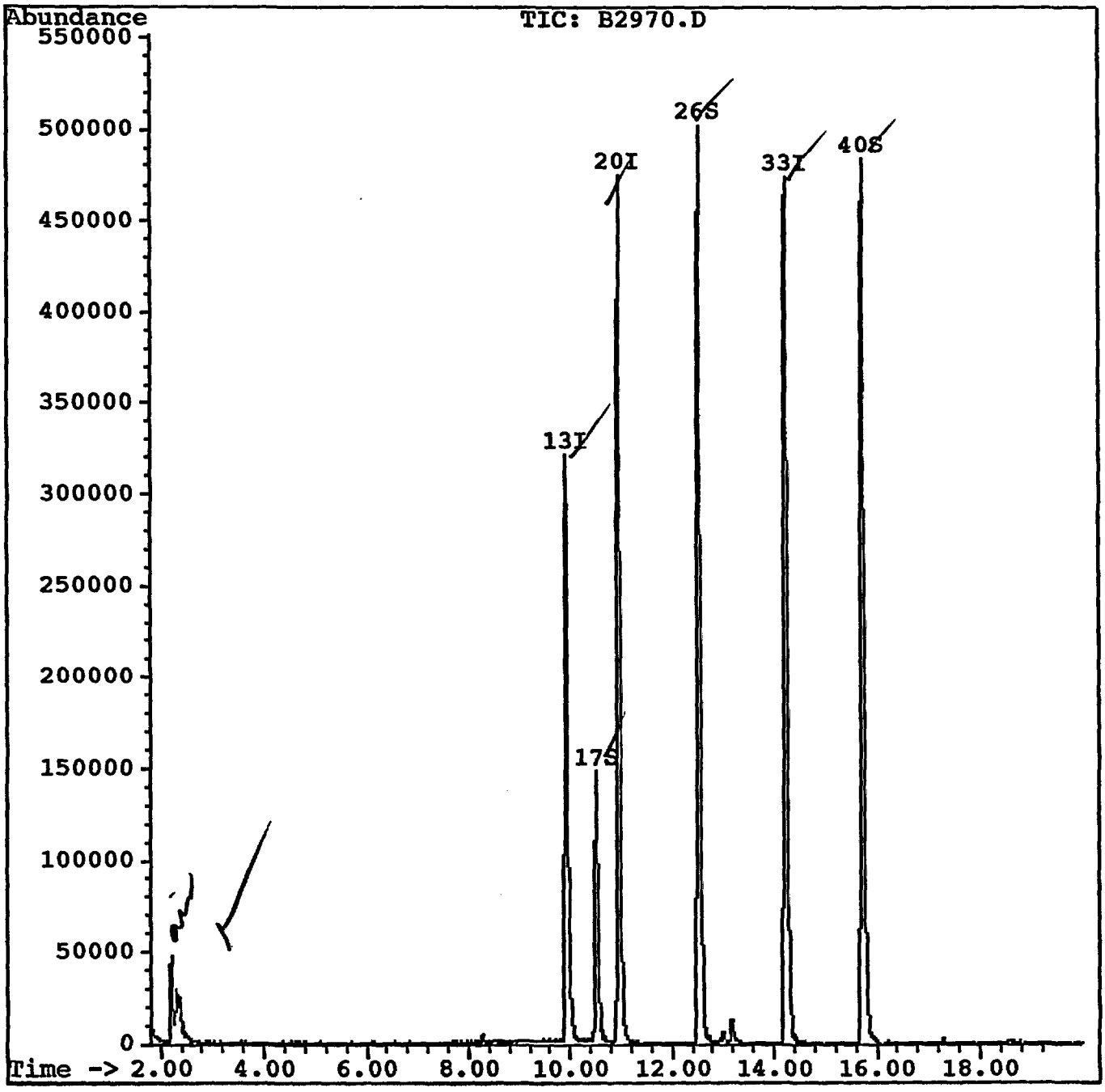
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 11:59

000085

Data File: C:\040496A\B2970.D
Name: VBLK1J
Misc: HP1*AATSLA*VBLK1J*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 11:59

000086

Data File: C:\040496A\B2970.D
Name: VBLK1J
Misc: HP1*AATSLA*VBLK1J*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.92	128	169251	50.00	ug/L	0.06
20) CI10 1,4-Difluorobenzene	10.95	114	829440	50.00	ug/L	0.05
33) CI20 D5-Chlorobenzene	14.22	117	699839	50.00	ug/L	0.06
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.51	65	196411	51.32	ug/L	102.63%
26) CS05 D8-Toluene SU2	12.52	98	812997	51.61	ug/L	103.23%
40) CS10 p-Bromofluorobenzene	15.72	95	539206	52.95	ug/L	105.90%
Target Compounds						**ISTD#**

(#) = qualifier out of range

INTERNAL STANDARD CHECK REPORT

000087

Method : OLMO3W1.M
Instrument ID : HP1
Continuing Calibration File : B2967.D
Sample File : B2970.D
Acquisition Date & Time : 4 Apr 96 11:59
Sample Name : VBLK1J
Misc Info : HP1*AATSLA*VBLK1J*5mL*MS317
Operator : JR

Istd	Name	Sample Area	Cont. Calib Area	Lower Limit	Upper Limit	Status
CI01	Bromochloromethan	169251	138782	69391	277564	OK
CI10	1,4-Difluorobenze	829440	669674	334837	1339348	OK
CI20	D5-Chlorobenzene	699839	546409	273205	1092818	OK

Istd	Name	Sample R.Time	Cont. Calib R.Time	Lower R.Time	Upper R.Time	Status
CI01	Bromochloromethan	9.92	9.86	9.36	10.36	OK
CI10	1,4-Difluorobenze	10.95	10.89	10.39	11.39	OK
CI20	D5-Chlorobenzene	14.22	14.16	13.66	14.66	OK

SURROGATE RECOVERY REPORT

000088

Sample File : B2970.D
Sample Name : VBLK1J
Misc Info : HP1*AATSLA*VBLK1J*5mL*MS317
Acquisition Date & Time : 4 Apr 96 11:59
Method : OLM03W1.M
Instrument ID : HP1
Operator : JR

Surrogate	Sample Conc	Spike Amt.	Water Limits	% Rec.
CS15 D4-1,2-Dichloroet	51.32	50.00	76-114	102.6
CS05 D8-Toluene SU2	51.61	50.00	88-110	103.2
CS10 p-Bromofluorobenz	52.95	50.00	86-115	105.9

LINEARITY CHECK REPORT

Compound Name	Detected Concentration	Max. Allowed Concentration

All Compounds within Linear Range

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET 000089

EPA SAMPLE NO.

VHBLK1J

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: VHBLK1J

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2986

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

000090

EPA SAMPLE NO.

VHBLK1J

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: VHBLK1J

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2986

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 19:50

Data File: C:\040496A\B2986.D

000091

Name: VHBLK1J SDG FER43 CASE 24517

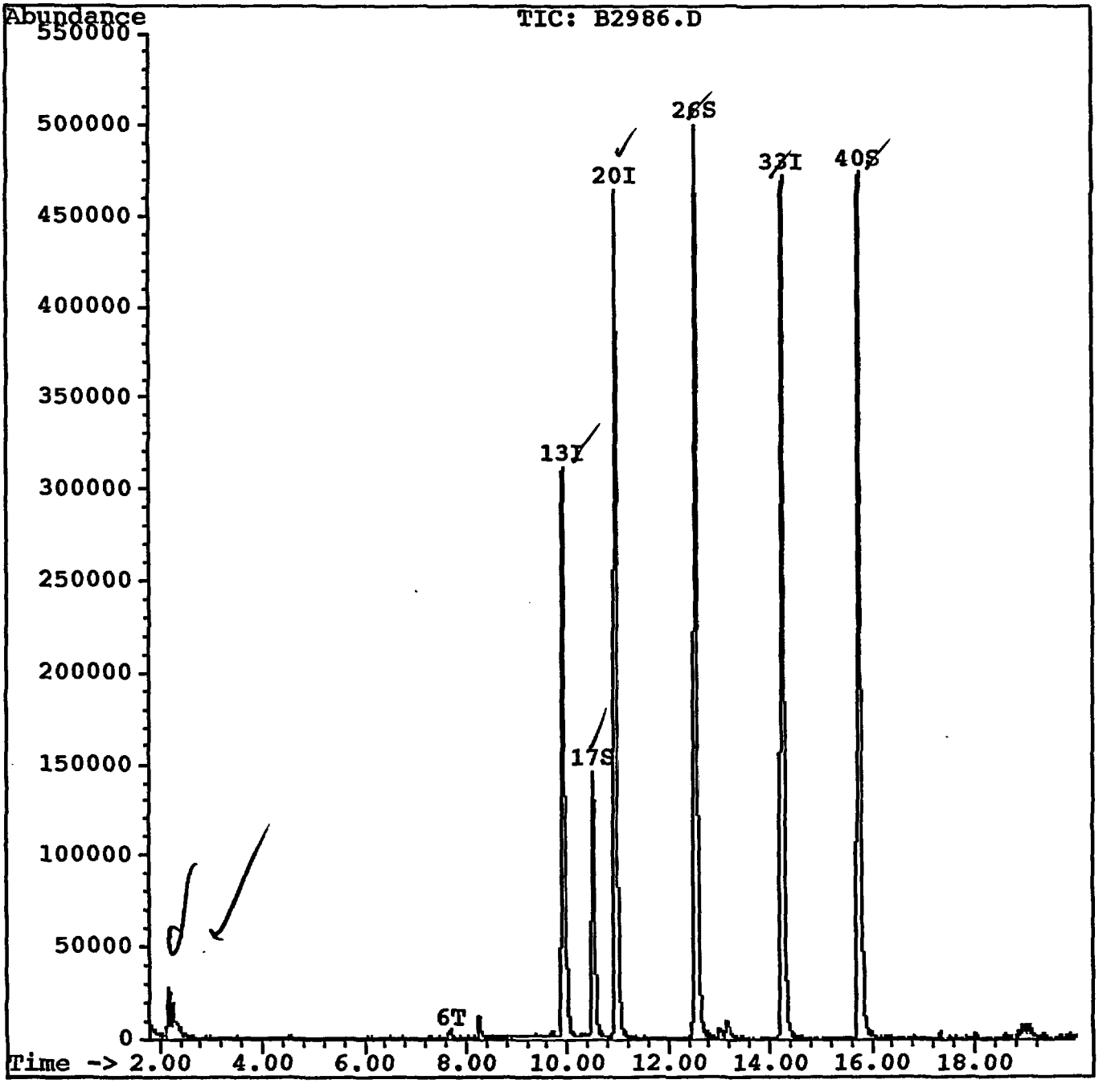
Misc: HP1*AATSLA*VHBLK1J*5mL*MS317

Method: OLMO3W1.M Inst: HP1

Title: OLMO3.0 WATER

Last Calibration: Thu Apr 04 14:28:42 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 19:50

000092

Data File: C:\040496A\B2986.D
Name: VHBLK1J SDG FER43 CASE 24517
Misc: HP1*AATSLA*VHBLK1J*5mL*MS317
Method: OLMO3W1.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.93	128	165819	50.00	ug/L	0.07
20) CI10 1,4-Difluorobenzene	10.96	114	819411	50.00	ug/L	0.07
33) CI20 D5-Chlorobenzene	14.26	117	695565	50.00	ug/L	0.09
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.52	65	195955	52.26	ug/L	104.51%
26) CS05 D8-Toluene SU2	12.55	98	812098	51.87	ug/L	103.75%
40) CS10 p-Bromofluorobenzene	15.76	95	523189	51.69	ug/L	103.39%
Target Compounds						ISTD#
6) ~~C035 Acetone~~	~~7.72~~	~~43~~	~~3848~~	~~3.73~~	~~ug/L~~ FP	001#

FP= False positive

(#) = qualifier out of range

INTERNAL STANDARD CHECK REPORT

000093

Method : OLMO3W1.M
Instrument ID : HP1
Continuing Calibration File : B2967.D
Sample File : B2986.D
Acquisition Date & Time : 4 Apr 96 19:50
Sample Name : VHBLK1J SDG FER43 CASE 24517
Misc Info : HP1*AATSLA*VHBLK1J*5mL*MS317
Operator : JR

Pollution Cleanup Division

Istd	Name	Sample Area	Cont. Calib Area	Lower Limit	Upper Limit	Status
CI01	Bromochloromethan	165819	138782	69391	277564	OK
CI10	1,4-Difluorobenze	819411	669674	334837	1339348	OK
CI20	D5-Chlorobenzene	695565	546409	273205	1092818	OK

Istd	Name	Sample R.Time	Cont. Calib R.Time	Lower R.Time	Upper R.Time	Status
CI01	Bromochloromethan	9.93	9.86	9.36	10.36	OK
CI10	1,4-Difluorobenze	10.96	10.89	10.39	11.39	OK
CI20	D5-Chlorobenzene	14.26	14.16	13.66	14.66	OK

SURROGATE RECOVERY REPORT

000094

Sample File : B2986.D
Sample Name : VHBLK1J SDG FER43 CASE 24517
Misc Info : HP1*AATSLA*VHBLK1J*5mL*MS317
Acquisition Date & Time : 4 Apr 96 19:50
Method : OLMO3W1.M
Instrument ID : HP1
Operator : JR

Surrogate	Sample Conc	Spike Amt.	Water Limits	% Rec.
CS15 D4-1,2-Dichloroet	52.26	50.00	76-114	104.5
CS05 D8-Toluene SU2	51.87	50.00	88-110	103.7
CS10 p-Bromofluorobenz	51.69	50.00	86-115	103.4

LINEARITY CHECK REPORT

Compound Name	Detected Concentration	Max. Allowed Concentration

All Compounds within Linear Range

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

000095 EPA SAMPLE NO.

FER43MS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541002MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2982

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

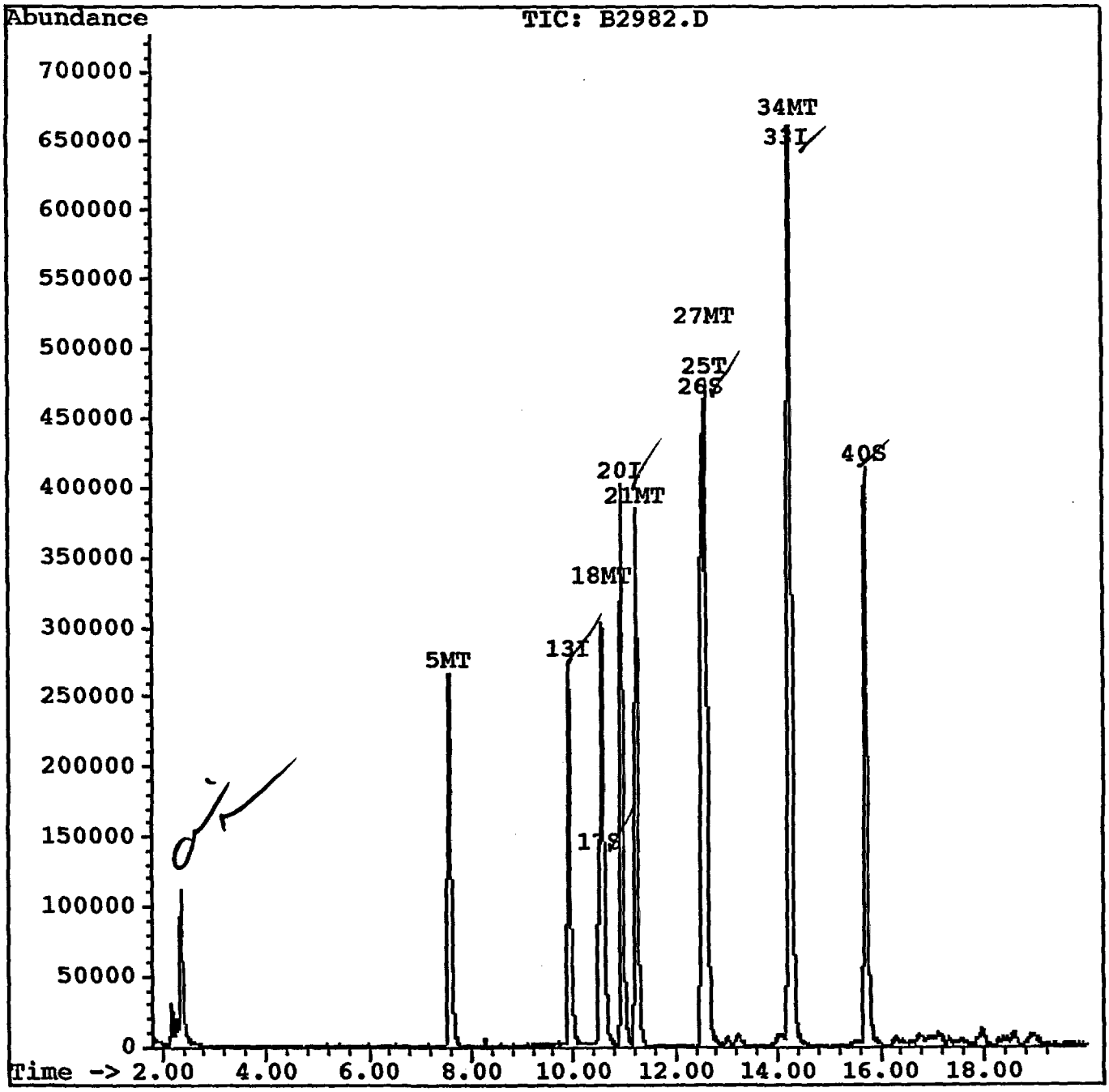
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	51	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	51	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	54	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	50	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 18:02
Data File: C:\040496A\B2982.D
Name: FER43MS
Misc: HP1*USEPA*15410.02*5mL*MS317
Method: OLMO3W2.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration

000096



QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 18:02

Data File: C:\040496A\B2982.D

000097

Name: FER43MS

Misc: HP1*USEPA*15410.02*5mL*MS317

Method: OLMO3W2.M Inst: HP1

Title: OLMO3.0 WATER

Last Calibration: Thu Apr 04 14:28:42 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.92	128	146127	50.00	ug/L	0.06
20) CI10 1,4-Difluorobenzene	10.95	114	705070	50.00	ug/L	0.05
33) CI20 D5-Chlorobenzene	14.23	117	596933	50.00	ug/L	0.07
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.51	65	171434	51.88	ug/L	103.76%
26) CS05 D8-Toluene SU2	12.53	98	702125	52.26	ug/L	104.52%
40) CS10 p-Bromofluorobenzene	15.72	95	463560	53.37	ug/L	106.74%
Target Compounds						ISTD#
5) C045 1,1-Dichloroethene	7.57	96	246600	51.12	ug/L	001#
18) C165 Benzene	10.57	78	553236	54.33	ug/L	002
21) C150 Trichloroethene	11.23	130	292265	51.28	ug/L	002
~~25) C205 4-Methyl-2-pentanone~~	~~12.60~~	~~43~~	~~14539~~	~~3.39~~	~~ug/L~~ FP	003#
27) C230 Toluene	12.60	91	758074	50.41	ug/L	003
34) C235 Chlorobenzene	14.27	112	546200	48.42	ug/L	003#

FP=FALSE POSITIVE

(#) = qualifier out of range

INTERNAL STANDARD CHECK REPORT

000098

Method : OLMO3W1.M
Instrument ID : HP1
Continuing Calibration File : B2967.D
Sample File : B2982.D
Acquisition Date & Time : 4 Apr 96 18:02
Sample Name : FER43MS
Misc Info : HP1*USEPA*15410.02*5mL*MS317
Operator : JR

Istd	Name	Sample Area	Cont. Calib Area	Lower Limit	Upper Limit	Status
CI01	Bromochloromethan	146127	138782	69391	277564	OK
CI10	1,4-Difluorobenze	705070	669674	334837	1339348	OK
CI20	D5-Chlorobenzene	596933	546409	273205	1092818	OK

Istd	Name	Sample R.Time	Cont. Calib R.Time	Lower R.Time	Upper R.Time	Status
CI01	Bromochloromethan	9.92	9.86	9.36	10.36	OK
CI10	1,4-Difluorobenze	10.95	10.89	10.39	11.39	OK
CI20	D5-Chlorobenzene	14.23	14.16	13.66	14.66	OK

SURROGATE RECOVERY REPORT

000099

Sample File : B2982.D
Sample Name : FER43MS
Misc Info : HP1*USEPA*15410.02*5mL*MS317
Acquisition Date & Time : 4 Apr 96 18:02
Method : OLMO3W1.M
Instrument ID : HP1
Operator : JR

Surrogate	Sample Conc	Spike Amt.	Water Limits	% Rec.
CS15 D4-1,2-Dichloroet	51.88	50.00	76-114	103.8
CS05 D8-Toluene SU2	52.26	50.00	88-110	104.5
CS10 p-Bromofluorobenz	53.37	50.00	86-115	106.7

LINEARITY CHECK REPORT

Compound Name	Detected Concentration	Max. Allowed Concentration

All Compounds within Linear Range

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET **000100**

EPA SAMPLE NO.

FER43MSD

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541003MSD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B2983

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. ____ Date Analyzed: 04/04/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

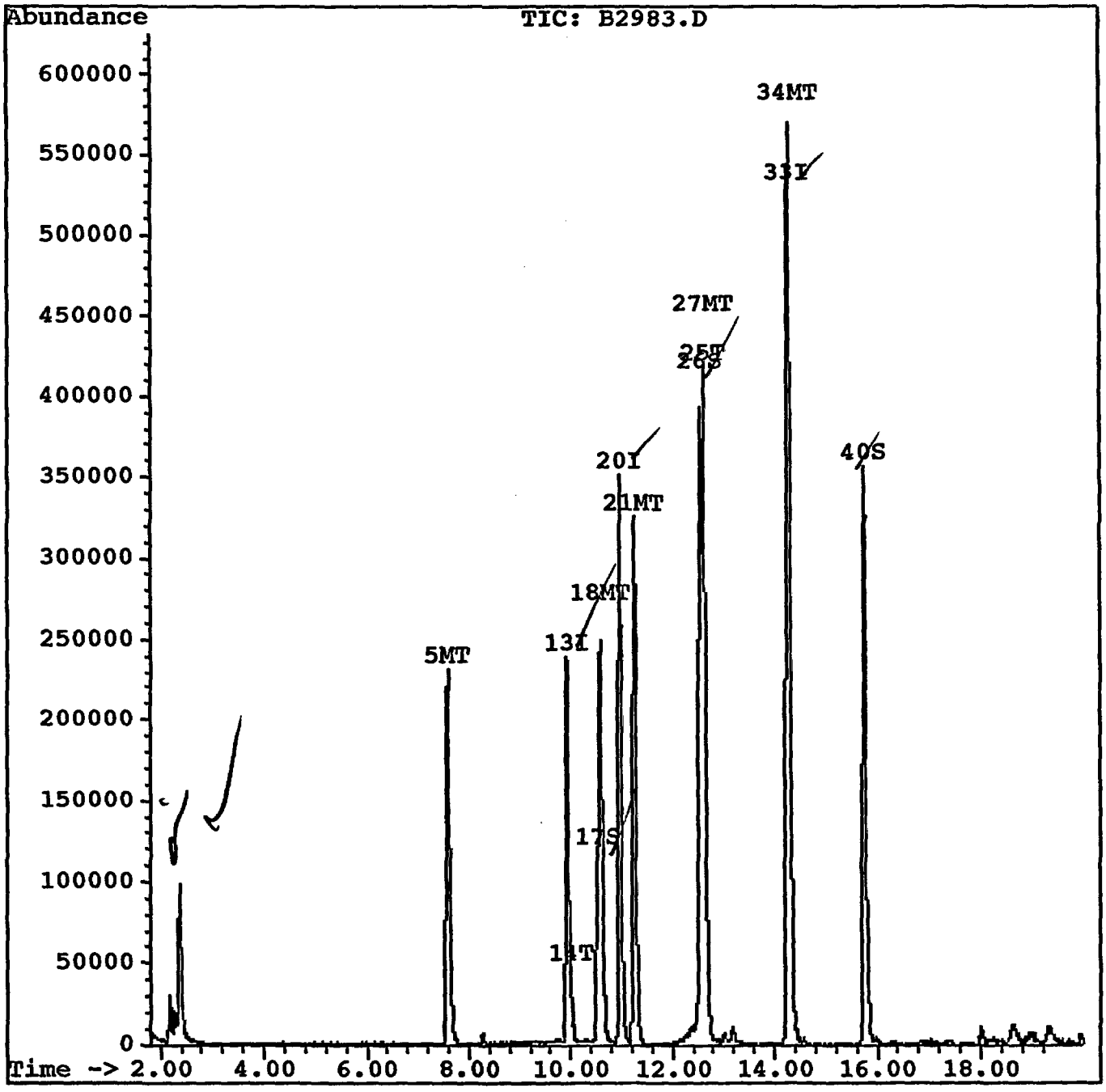
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	52	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	50	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	51	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	50	
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 18:29

000101

Data File: C:\040496A\B2983.D
Name: FER43MSD
Misc: HP1*USEPA*15410.03*5mL*MS317
Method: OLMO3W2.M Inst: HP1
Title: OLMO3.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 4 Apr 96 18:29

000102

Data File: C:\040496A\B2983.D
Name: FER43MSD
Misc: HP1*USEPA*15410.03*5mL*MS317
Method: OLM03W2.M Inst: HP1
Title: OLM03.0 WATER
Last Calibration: Thu Apr 04 14:28:42 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.92	128	125507	50.00	ug/L	0.06
20) CI10 1,4-Difluorobenzene	10.95	114	618874	50.00	ug/L	0.06
33) CI20 D5-Chlorobenzene	14.25	117	516608	50.00	ug/L	0.08
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.52	65	148719	52.40	ug/L	104.80%
26) CS05 D8-Toluene SU2	12.54	98	611084	52.55	ug/L	105.11%
40) CS10 p-Bromofluorobenzene	15.75	95	398553	53.02	ug/L	106.04%
Target Compounds						ISTD#
5) C045 1,1-Dichloroethene	7.57	96	213926	51.63	ug/L	001#
14) ~~C060 Chloroform~~	~~10.02~~	~~83~~	~~18890~~	~~2.64~~	~~ug/L~~	001
18) C165 Benzene	10.58	78	460186	51.49	ug/L	002
21) C150 Trichloroethene	11.24	130	248970	49.77	ug/L	002
25) ~~C205 4-Methyl-2-pentanone~~	~~12.62~~	43	12750	~~3.44~~	~~ug/L~~	003#
27) C230 Toluene	12.62	91	648888	49.86	ug/L	003
34) C235 Chlorobenzene	14.28	112	469839	48.13	ug/L	003#

PP - FALSE POSITIVE

(#) = qualifier out of range

INTERNAL STANDARD CHECK REPORT

000103

Method : OLMO3W1.M
Instrument ID : HP1
Continuing Calibration File : B2967.D
Sample File : B2983.D
Acquisition Date & Time : 4 Apr 96 18:29
Sample Name : FER43MSD
Misc Info : HP1*USEPA*15410.03*5mL*MS317
Operator : JR

Istd	Name	Sample Area	Cont. Calib Area	Lower Limit	Upper Limit	Status
CI01	Bromochloromethan	125507	138782	69391	277564	OK
CI10	1,4-Difluorobenze	618874	669674	334837	1339348	OK
CI20	D5-Chlorobenzene	516608	546409	273205	1092818	OK

Istd	Name	Sample R.Time	Cont. Calib R.Time	Lower R.Time	Upper R.Time	Status
CI01	Bromochloromethan	9.92	9.86	9.36	10.36	OK
CI10	1,4-Difluorobenze	10.95	10.89	10.39	11.39	OK
CI20	D5-Chlorobenzene	14.25	14.16	13.66	14.66	OK

SURROGATE RECOVERY REPORT

000104

Sample File : B2983.D
Sample Name : FER43MSD
Misc Info : HP1*USEPA*15410.03*5mL*MS317
Acquisition Date & Time : 4 Apr 96 18:29
Method : OLMO3W1.M
Instrument ID : HP1
Operator : JR

Surrogate	Sample Conc	Spike Amt.	Water Limits	% Rec.
CS15 D4-1,2-Dichloroet	52.40	50.00	76-114	104.8
CS05 D8-Toluene SU2	52.55	50.00	88-110	105.1
CS10 p-Bromofluorobenz	53.02	50.00	86-115	106.0

LINEARITY CHECK REPORT

Compound Name	Detected Concentration	Max. Allowed Concentration

All Compounds within Linear Range

BOOKMARK

IV. SEMIVOLATILE DATA

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	FER43	81	85	75	81	91	114	90	78	0
02	FER57	90	91	83	86	99	117	98	84	0
03	FER58	85	91	87	79	88	93	94	86	0
04	FER61	84	92	100	82	93	117	95	82	0
05	FER62	84	89	75	80	89	105	92	82	0
06	FER43MS	79	84	69	77	87	113	87	74	0
07	FER43MSD	83	82	90	81	86	115	88	73	0
08	SBLK6Q	74	77	104	77	83	96	84	68	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

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

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix Spike - EPA Sample No.: FER43

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	150.0	0	97.61	65	12-110
2-Chlorophenol	150.0	0	111.5	74	27-123
1,4-Dichlorobenzene	100.0	0	68.96	69	36- 97
N-Nitroso-di-n-prop.(1)	100.0	0	77.90	78	41-116
1,2,4-Trichlorobenzene	100.0	0	75.31	75	39- 98
4-Chloro-3-methylphenol	150.0	0	112.0	75	23- 97
Acenaphthene	100.0	0	81.77	82	46-118
4-Nitrophenol	150.0	0	129.6	86 *	10- 80
2,4-Dinitrotoluene	100.0	0	79.64	80	24- 96
Pentachlorophenol	150.0	0	177.3	118 *	9-103
Pyrene	100.0	0	90.07	90	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	150.0	103.4	69	6	42	12-110
2-Chlorophenol	150.0	116.1	77	4	40	27-123
1,4-Dichlorobenzene	100.0	71.87	72	4	28	36- 97
N-Nitroso-di-n-prop.(1)	100.0	80.27	80	3	38	41-116
1,2,4-Trichlorobenzene	100.0	81.17	81	8	28	39- 98
4-Chloro-3-methylphenol	150.0	126.2	84	11	42	23- 97
Acenaphthene	100.0	87.74	88	7	31	46-118
4-Nitrophenol	150.0	153.6	102 *	17	50	10- 80
2,4-Dinitrotoluene	100.0	89.64	90	12	38	24- 96
Pentachlorophenol	150.0	187.2	125 *	6	50	9-103
Pyrene	100.0	97.68	98	9	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 4 out of 22 outside limits

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

000107 EPA SAMPLE NO.

SBLK6Q

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Lab File ID: 77414 Lab Sample ID: SBLK6Q

Instrument ID: HP6 Date Extracted: 03/28/96

Matrix: (soil/water) WATER Date Analyzed: 04/04/96

Level: (low/med) LOW Time Analyzed: 1822

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	FER43	1541001	77415	04/04/96
02	FER57	1541004	77418	04/04/96
03	FER58	1541005	77419	04/04/96
04	FER61	1541006	77421	04/04/96
05	FER62	1541007	77422	04/04/96
06	FER43MS	1541002MS	77416	04/04/96
07	FER43MSD	1541003MSD	77417	04/04/96

MENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

000108

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Lab File ID: 77310 DFTPP Injection Date: 03/31/96

Instrument ID: HP6 DFTPP Injection Time: 1238

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	45.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	66.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	49.8
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	19.7
365	Greater than 0.75% of mass 198	2.10
441	Present, but less than mass 443	7.6
442	40.0 - 110.0% of mass 198	51.1
443	15.0 - 24.0% of mass 442	10.1 (19.7)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0506C	SSTD0506C	77311	03/31/96	1250
02	SSTD0206C	SSTD0206C	77312	03/31/96	1320
03	SSTD0806C	SSTD0806C	77313	03/31/96	1349
04	SSTD1206C	SSTD1206C	77314	03/31/96	1417
05	SSTD1606C	SSTD1606C	77315	03/31/96	1446

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK 000109
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Lab File ID: 77411 DFTPP Injection Date: 04/04/96

Instrument ID: HP6 DFTPP Injection Time: 1625

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	53.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	73.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	50.9
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	6.0
275	10.0 - 30.0% of mass 198	20.7
365	Greater than 0.75% of mass 198	1.72
441	Present, but less than mass 443	6.2
442	40.0 - 110.0% of mass 198	43.0
443	15.0 - 24.0% of mass 442	7.5 (17.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0506Q	SSTD0506Q	77413	04/04/96	1750
02	SBLK6Q	SBLK6Q	77414	04/04/96	1822
03	FER43	1541001	77415	04/04/96	1852
04	FER43MS	1541002MS	77416	04/04/96	1922
05	FER43MSD	1541003MSD	77417	04/04/96	1952
06	FER57	1541004	77418	04/04/96	2023
07	FER58	1541005	77419	04/04/96	2053
08	FER61	1541006	77421	04/04/96	2124
09	FER62	1541007	77422	04/04/96	2154

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000110

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Lab File ID (Standard): 77413 Date Analyzed: 04/04/96

Instrument ID: HP6 Time Analyzed: 1750

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	67676	5.63	198547	7.15	92655	9.30
	UPPER LIMIT	135352	6.13	397094	7.65	185310	9.80
	LOWER LIMIT	33838	5.13	99274	6.65	46328	8.80
	EPA SAMPLE NO.						
01	FER43	72173	5.62	225387	7.15	98118	9.30
02	FER57	81734	5.63	247107	7.17	113671	9.30
03	FER58	87089	5.63	274130	7.15	122228	9.30
04	FER61	97412	5.63	303249	7.17	135615	9.32
05	FER62	65666	5.62	197737	7.17	83445	9.30
06	FER43MS	77468	5.63	225735	7.15	103146	9.30
07	FER43MSD	70860	5.62	199618	7.15	97920	9.30
08	SBLK6Q	76838	5.62	246510	7.17	113318	9.30

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 = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY 000111

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Lab File ID (Standard): 77413 Date Analyzed: 04/04/96

Instrument ID: HP6 Time Analyzed: 1750

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	108739		11.42		82765		15.59		91714		17.70	
	UPPER LIMIT	217478		11.92		165530		16.09		183428		18.20	
	LOWER LIMIT	54370		10.92		41382		15.09		45857		17.20	
	EPA SAMPLE NO.												
01	FER43	104710		11.42		66786		15.59		69963		17.70	
02	FER57	129552		11.42		91051		15.57		88767		17.70	
03	FER58	137173		11.42		93367		15.57		89818		17.69	
04	FER61	145967		11.44		83496		15.60		83150		17.72	
05	FER62	92030		11.42		75433		15.59		79762		17.70	
06	FER43MS	106666		11.42		69064		15.59		70854		17.70	
07	FER43MSD	110856		11.42		92592		15.59		91673		17.70	
08	SBLK6Q	120030		11.42		74379		15.59		70361		17.70	

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 = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

1F

EPA SAMPLE NO.

FER43

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77415

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

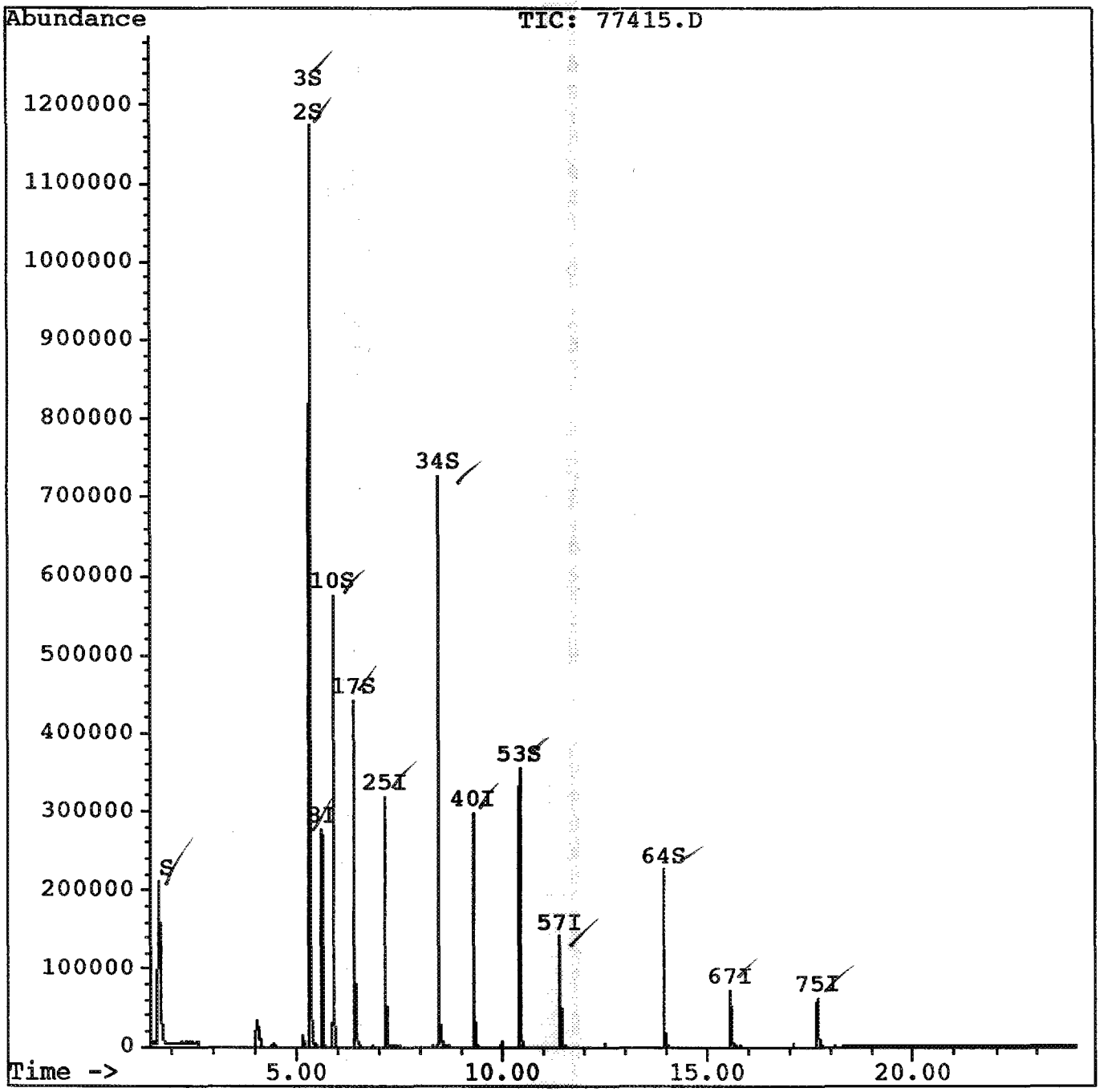
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 18:52
Data File: C:\CHEMPC\DATA\040496\77415.D
Name: FER43 EXT032896
Misc: HP6*USEPA*15410.01*1000ml/1.0ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:29:33 1996
Quantitated using Single Level Calibration



QUANT REPORT

000116

Operator ID: AK Date Acquired: 4 Apr 96 18:52
Data File: C:\CHEMPC\DATA\040496\77415.D
Name: FER43 EXT032896
Misc: HP6*USEPA*15410.01*1000ml/1.0ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:29:33 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.62	152	72173	40.00	ug/mL	-0.01
25) CI40 Naphthalene-d8	7.15	136	225387	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.30	164	98118	40.00	ug/mL	-0.00
57) CI60 Phenanthrene-d10	11.42	188	104710	40.00	ug/mL	0.00
67) CI70 Chrysene-d12	15.58	240	66786	40.00	ug/mL	0.01
75) CI75 Perylene-d12	17.70	264	69963	40.00	ug/mL	0.00

System Monitoring Compounds

						%Recovery
1) CS50 2-Fluorophenol	1.70	112	228176	136.25	ug/mL	90.84%
2) CS45 Phenol-d5	5.34	99	318626	121.46	ug/mL	80.97%
3) CS70 2-Chlorophenol-d4	5.34	132	299105	135.14	ug/mL	90.09%
10) CS75 1,2-Dichlorobenzene-d	5.89	152	117090	78.43	ug/mL	78.43%
17) CS20 Nitrobenzene-d5	6.41	82	213698	80.91	ug/mL	80.91%
34) CS25 2-Fluorobiphenyl	8.45	172	293594	85.48	ug/mL	85.48%
53) CS55 2,4,6-Tribromophenol	10.44	330	64602	171.28	ug/mL	114.19%
64) CS30 Terphenyl-d14	13.96	244	117485	75.05	ug/mL	75.05%

Target Compounds ISTD#

(#) = qualifier out of range

1F

000119 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FER57

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77418

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.07	10	BJ

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 20:23

000120

Data File: C:\CHEMPC\DATA\040496\77418.D

Name: FER57 EXT032896

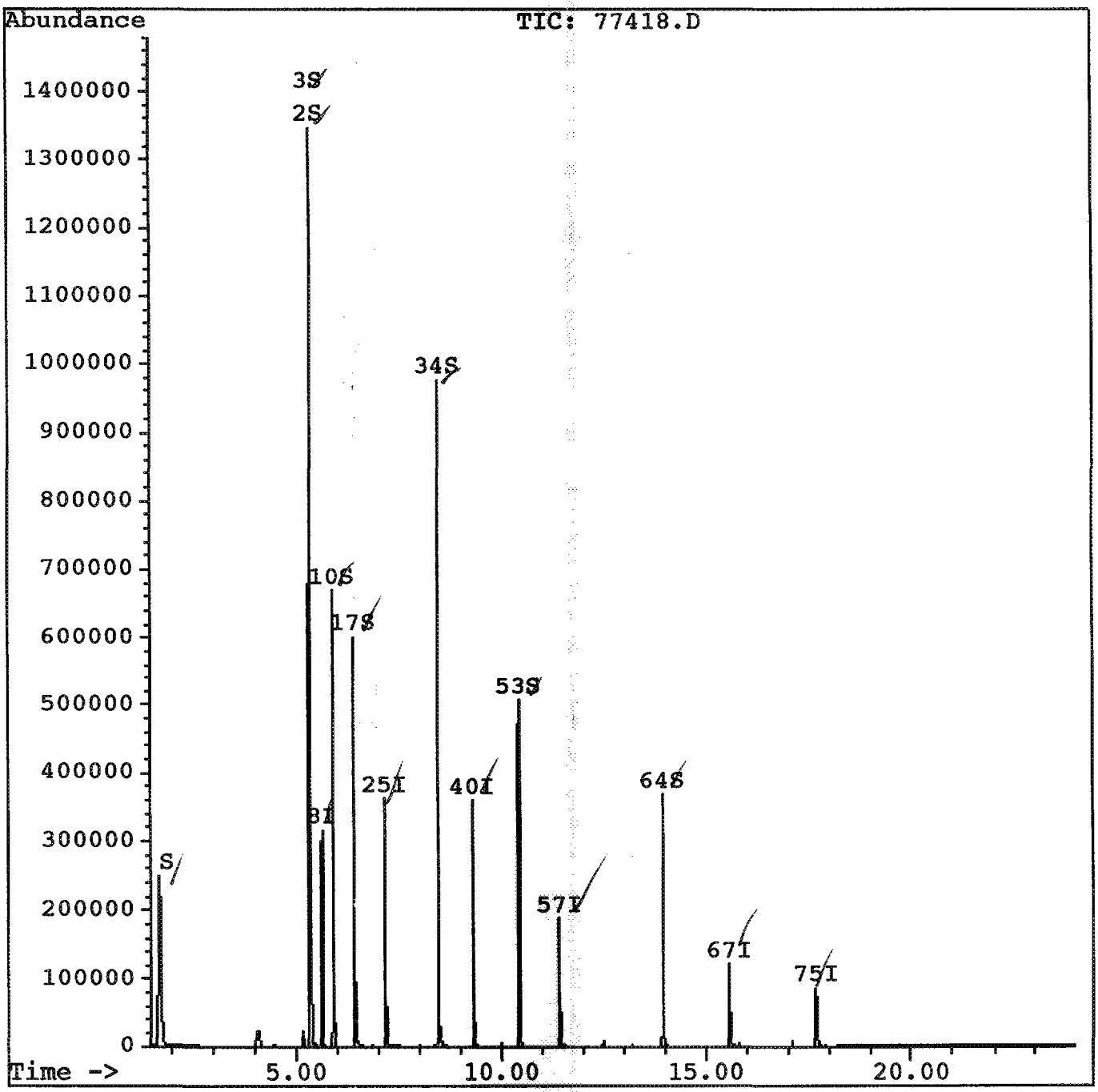
Misc: HP6*USEPA*15410.04*1000ml/1.0ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 20:23

Data File: C:\CHEMPC\DATA\040496\77418.D

000121

Name: FER57 EXT032896

Misc: HP6*USEPA*15410.04*1000ml/1.0ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	81734	40.00	ug/mL	-0.00
25) CI40 Naphthalene-d8	7.16	136	247107	40.00	ug/mL	0.00
40) CI50 Acenaphthene-d10	9.30	164	113671	40.00	ug/mL	-0.00
57) CI60 Phenanthrene-d10	11.42	188	129552	40.00	ug/mL	0.00
67) CI70 Chrysene-d12	15.57	240	91051	40.00	ug/mL	-0.00
75) CI75 Perylene-d12	17.69	264	88767	40.00	ug/mL	-0.00

System Monitoring Compounds

						%Recovery
1) CS50 2-Fluorophenol	1.70	112	281942	148.67	ug/mL	99.11%
2) CS45 Phenol-d5	5.34	99	384984	129.59	ug/mL	86.39%
3) CS70 2-Chlorophenol-d4	5.34	132	368104	146.86	ug/mL	97.90%
10) CS75 1,2-Dichlorobenzene-d	5.89	152	142706	84.40	ug/mL	84.40%
17) CS20 Nitrobenzene-d5	6.41	82	261191	90.20	ug/mL	90.20%
34) CS25 2-Fluorobiphenyl	8.45	172	363963	91.46	ug/mL	91.46%
53) CS55 2,4,6-Tribromophenol	10.43	330	81887	175.48	ug/mL	116.99%
64) CS30 Terphenyl-d14	13.96	244	176287	82.60	ug/mL	82.60%

Target Compounds ISTD#

(#) = qualifier out of range

Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 20:23

000122

Data File: C:\CHEMPC\DATA\040496\77418.D

Name: FER57 EXT032896

Misc: HP6*USEPA*15410.04*1000ml/1.0ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

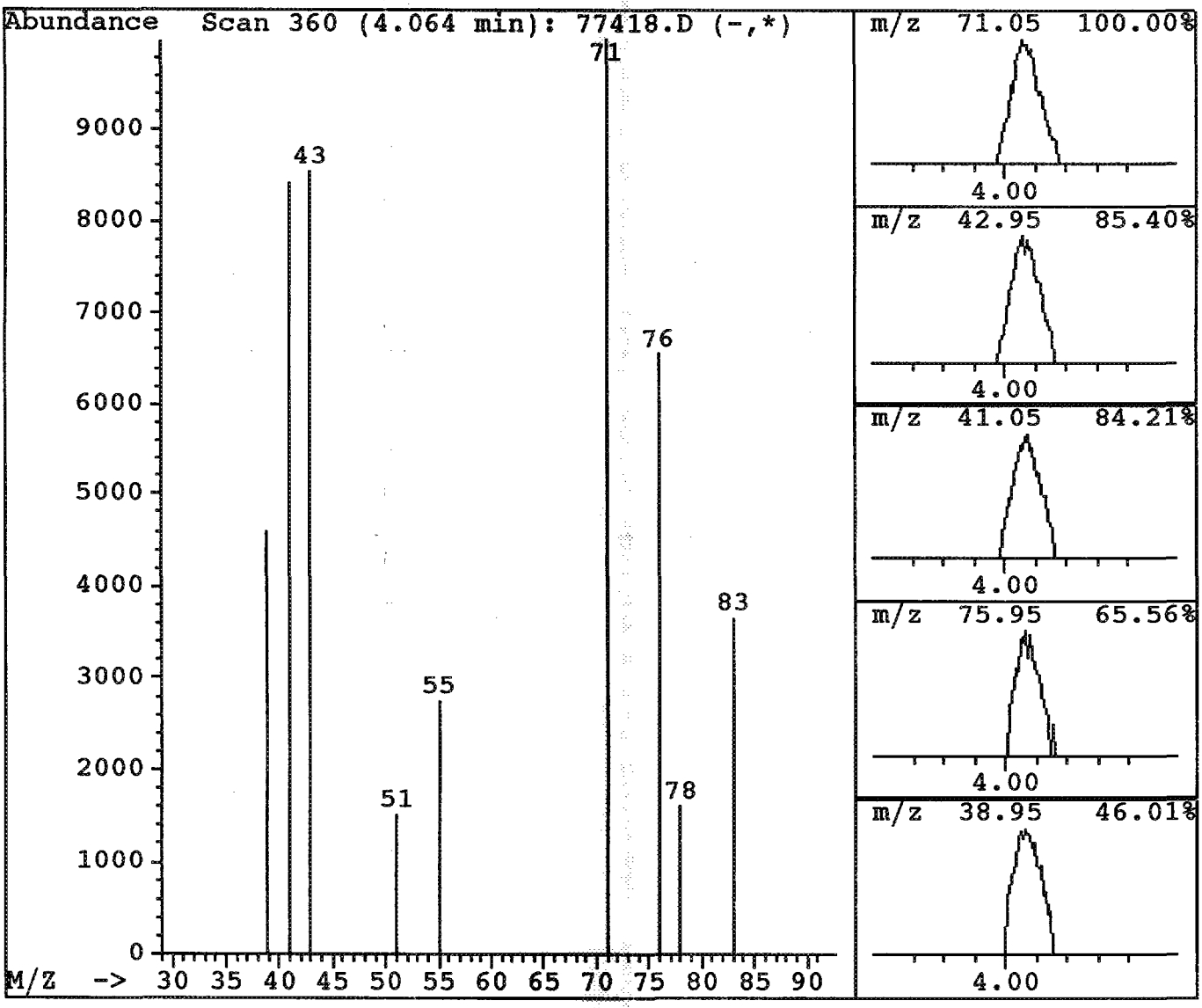
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.06	10.45 ug/mL	133210	CI30 1,4-Dichlorobenzene-	510029

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000125
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FER58

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77419

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 20:53 000126

Data File: C:\CHEMPC\DATA\040496\77419.D

Name: FER58 EXT032896

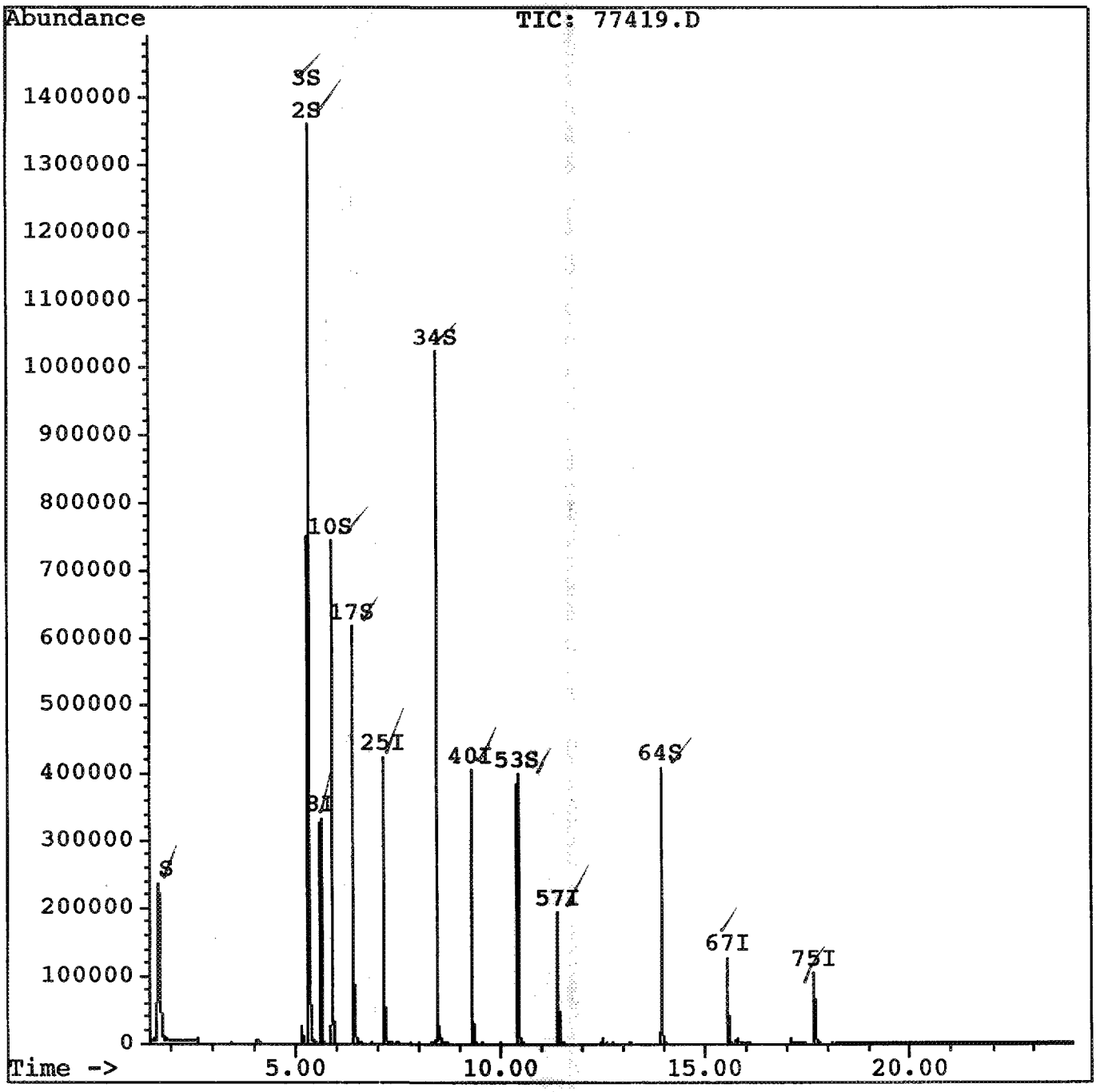
Misc: HP6*USEPA*15410.05*1000ml/1.0ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration



QUANT REPORT

000127

Operator ID: AK Date Acquired: 4 Apr 96 20:53
Data File: C:\CHEMPC\DATA\040496\77419.D
Name: FER58 EXT032896
Misc: HP6*USEPA*15410.05*1000ml/1.0ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	87089	40.00	ug/mL	0.00
25) CI40 Naphthalene-d8	7.15	136	274130	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.30	164	122228	40.00	ug/mL	-0.00
57) CI60 Phenanthrene-d10	11.42	188	137173	40.00	ug/mL	0.00
67) CI70 Chrysene-d12	15.57	240	93367	40.00	ug/mL	-0.00
75) CI75 Perylene-d12	17.69	264	89818	40.00	ug/mL	-0.01

System Monitoring Compounds

						%Recovery
1) CS50 2-Fluorophenol	1.71	112	268111	132.68	ug/mL	88.45%
2) CS45 Phenol-d5	5.34	99	373335	117.94	ug/mL	78.63%
3) CS70 2-Chlorophenol-d4	5.34	132	377298	141.27	ug/mL	94.18%
10) CS75 1,2-Dichlorobenzene-d	5.89	152	154115	85.55	ug/mL	85.55%
17) CS20 Nitrobenzene-d5	6.41	82	274619	85.49	ug/mL	85.49%
34) CS25 2-Fluorobiphenyl	8.45	172	387453	90.55	ug/mL	90.55%
53) CS55 2,4,6-Tribromophenol	10.44	330	69284	140.22	ug/mL	93.48%
64) CS30 Terphenyl-d14	13.96	244	191210	87.37	ug/mL	87.37%

Target Compounds ISTD#

(#) = qualifier out of range

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000130

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FER61

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77421

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1

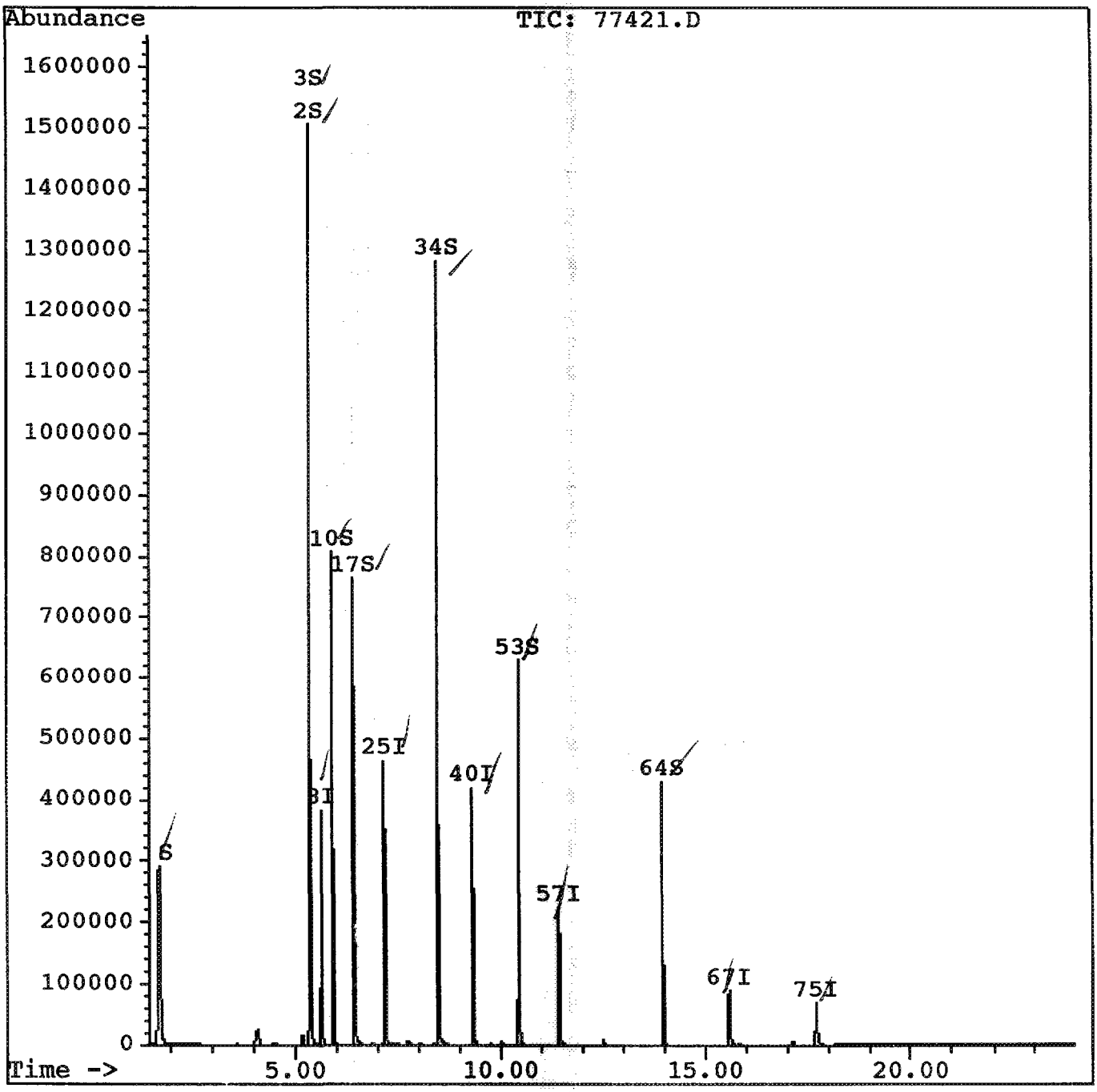
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.07	9	BJ

QUANT REPORT

000131

Operator ID: AK Date Acquired: 4 Apr 96 21:24
Data File: C:\CHEMPC\DATA\040496\77421.D
Name: FER61 EXT032896
Misc: HP6*USEPA*15410.06*1000ml/1.0ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration



QUANT REPORT

000132

Operator ID: AK Date Acquired: 4 Apr 96 21:24
Data File: C:\CHEMPC\DATA\040496\77421.D
Name: FER61 EXT032896
Misc: HP6*USEPA*15410.06*1000ml/1.0ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.64	152	97412	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.17	136	303249	40.00	ug/mL	0.02
40) CI50 Acenaphthene-d10	9.31	164	135615	40.00	ug/mL	0.01
57) CI60 Phenanthrene-d10	11.43	188	145967	40.00	ug/mL	0.02
67) CI70 Chrysene-d12	15.60	240	83496	40.00	ug/mL	0.02
75) CI75 Perylene-d12	17.71	264	83150	40.00	ug/mL	0.02
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.72	112	315018	139.37	ug/mL	92.91%
2) CS45 Phenol-d5	5.37	99	435984	123.13	ug/mL	82.09%
3) CS70 2-Chlorophenol-d4	5.35	132	426868	142.89	ug/mL	95.26%
10) CS75 1,2-Dichlorobenzene-d	5.91	152	165462	82.11	ug/mL	82.11%
17) CS20 Nitrobenzene-d5	6.42	82	298562	84.02	ug/mL	84.02%
34) CS25 2-Fluorobiphenyl	8.47	172	436164	91.87	ug/mL	91.87%
53) CS55 2,4,6-Tribromophenol	10.45	330	92513	175.96	ug/mL	117.30%
64) CS30 Terphenyl-d14	13.98	244	196400	100.35	ug/mL	100.35%

Target Compounds ISTD#

(#) = qualifier out of range

Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 21:24

000133

Data File: C:\CHEMPC\DATA\040496\77421.D

Name: FER61 EXT032896

Misc: HP6*USEPA*15410.06*1000ml/1.0ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

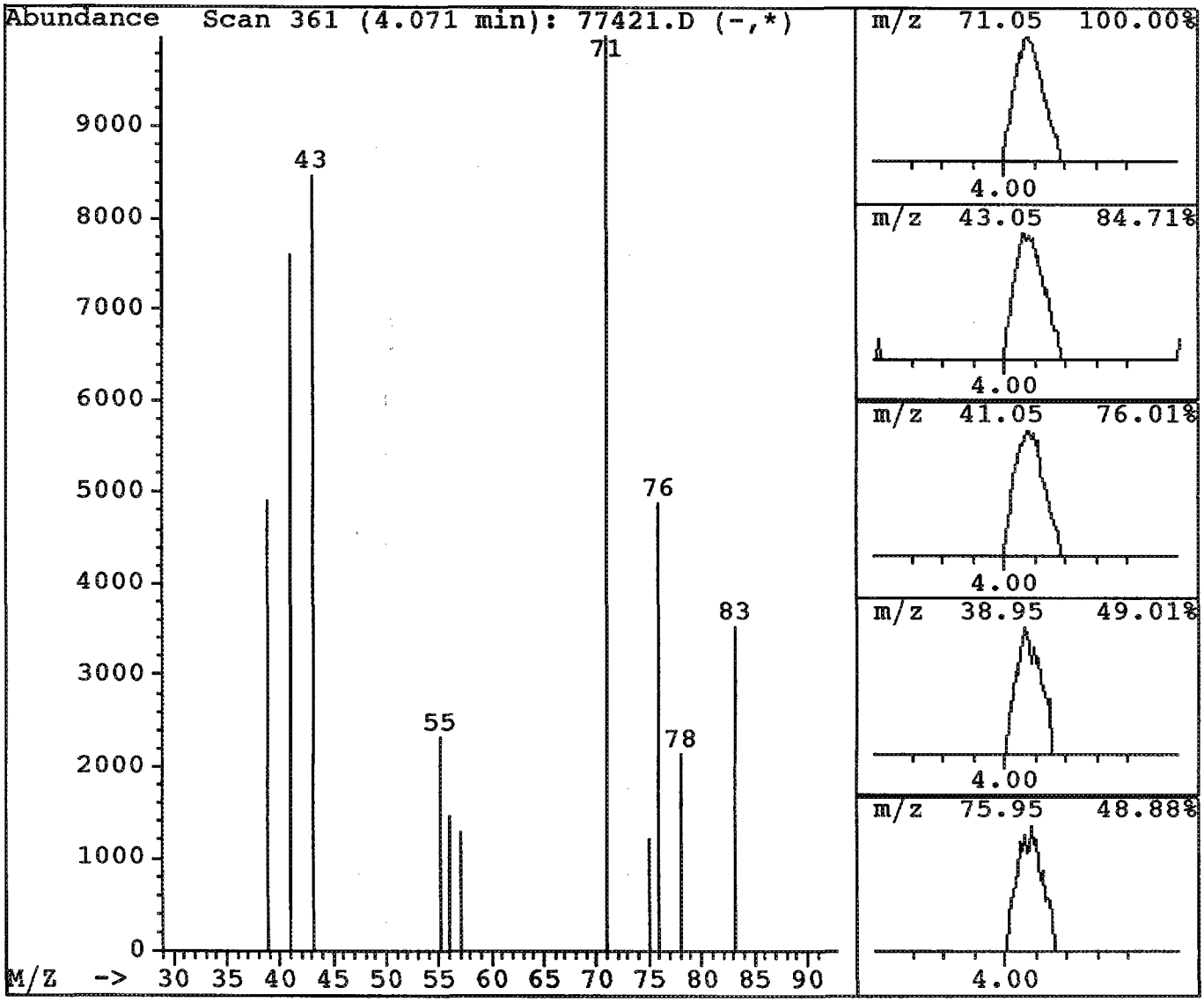
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.07	9.12 ug/mL	139473	CI30 1,4-Dichlorobenzene-	611847

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

000136

EPA SAMPLE NO.

FER62

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77422

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.05	6	J

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 21:54

Data File: C:\CHEMPC\DATA\040496\77422.D

000137

Name: FER62 EXT032896

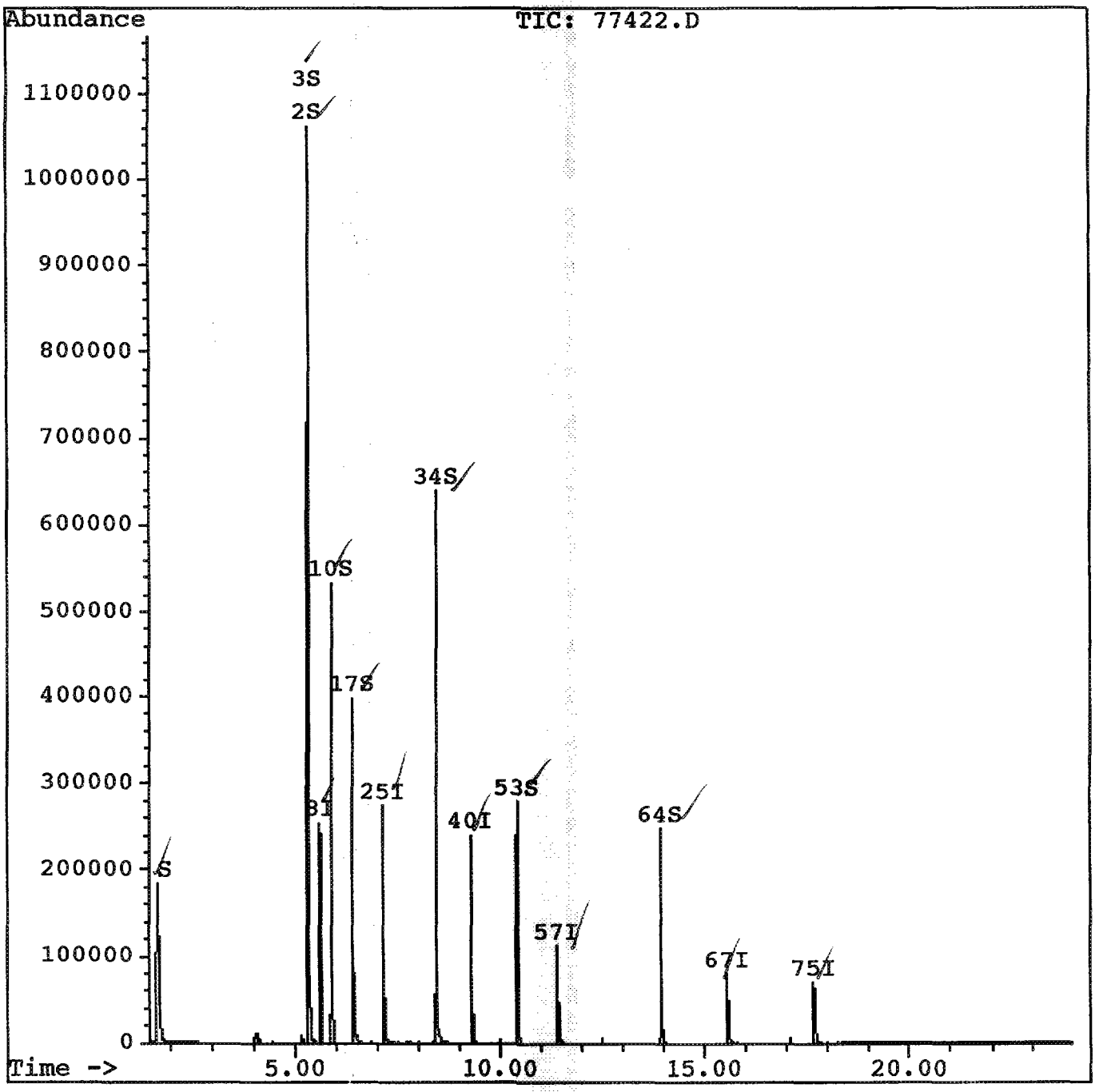
Misc: HP6*USEPA*15410.07*1000ml/1.0ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration



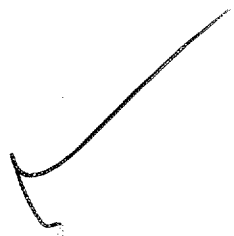
QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 21:54
Data File: C:\CHEMPC\DATA\040496\77422.D
Name: FER62 EXT032896 000138
Misc: HP6*USEPA*15410.07*1000ml/1.0ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.62	152	65666	40.00	ug/mL	-0.01
25) CI40 Naphthalene-d8	7.16	136	197737	40.00	ug/mL	0.00
40) CI50 Acenaphthene-d10	9.30	164	83445	40.00	ug/mL	-0.00
57) CI60 Phenanthrene-d10	11.42	188	92030	40.00	ug/mL	0.00
67) CI70 Chrysene-d12	15.58	240	75433	40.00	ug/mL	0.01
75) CI75 Perylene-d12	17.69	264	79762	40.00	ug/mL	-0.00
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.69	112	203480	133.55	ug/mL	89.03%
2) CS45 Phenol-d5	5.34	99	286768	120.15	ug/mL	80.10%
3) CS70 2-Chlorophenol-d4	5.34	132	277979	138.04	ug/mL	92.03%
10) CS75 1,2-Dichlorobenzene-d	5.89	152	111268	81.91	ug/mL	81.91%
17) CS20 Nitrobenzene-d5	6.41	82	195317 ✓	84.29	ug/mL	84.29%
34) CS25 2-Fluorobiphenyl	8.45	172	261051	89.36	ug/mL	89.36%
53) CS55 2,4,6-Tribromophenol	10.43	330	52260	157.65	ug/mL	105.10%
64) CS30 Terphenyl-d14	13.96	244	133135	75.30	ug/mL	75.30%

Target Compounds ISTD#



(#) = qualifier out of range

Tentatively Identified Compound (LSC)

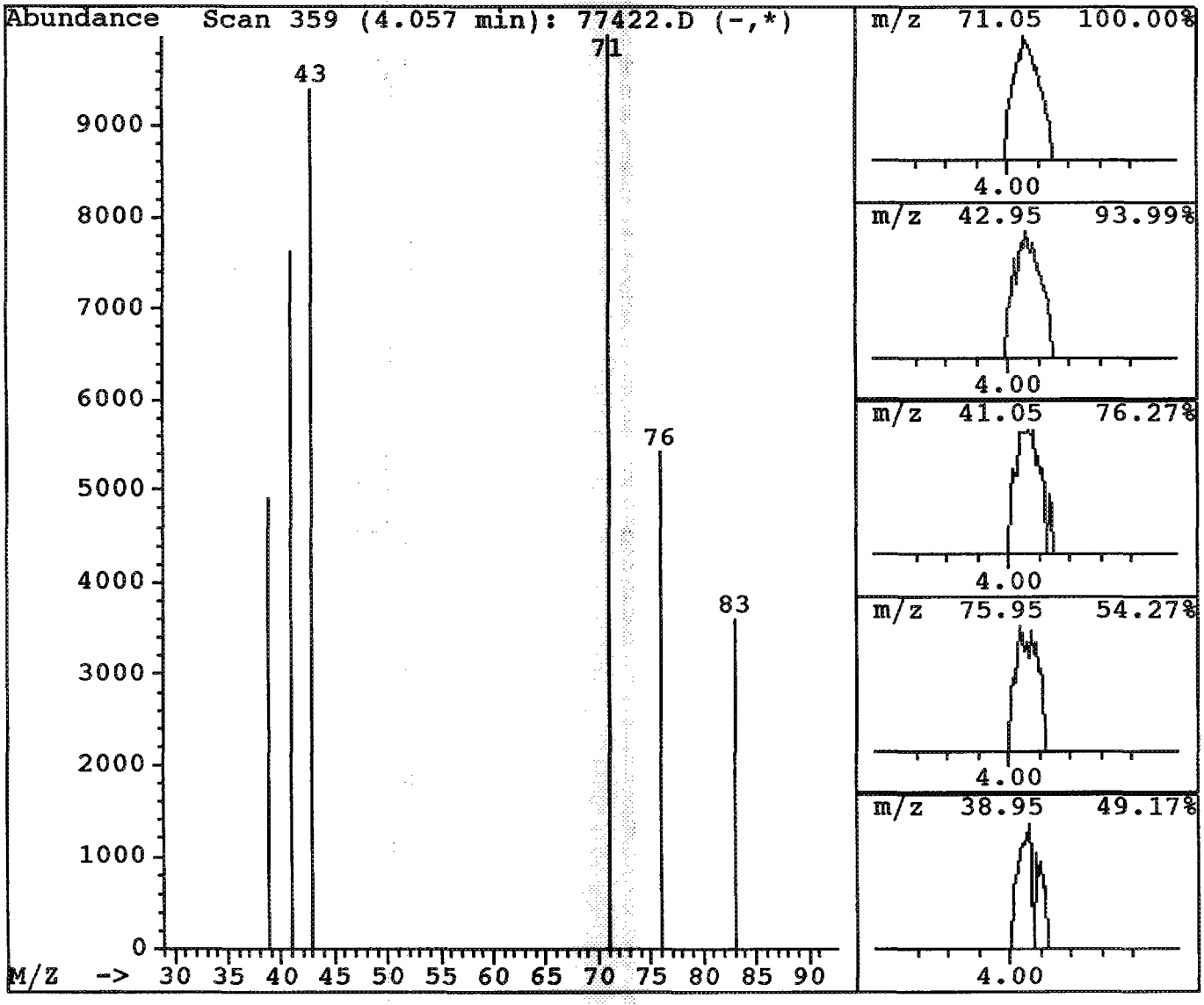
000139

Operator ID: AK Date Acquired: 4 Apr 96 21:54
Data File: C:\CHEMPC\DATA\040496\77422.D
Name: FER62 EXT032896
Misc: HP6*USEPA*15410.07*1000ml/1.0ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.06	6.05 ug/mL	62371	CI30 1,4-Dichlorobenzene-	412038

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA 000140

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Instrument ID: HP6 Calibration Date(s): 03/31/96 03/31/96

Calibration Times: 1250 1446

LAB FILE ID: RRF20 = 77312 RRF50 = 77311
RRF80 = 77313 RRF120= 77314 RRF160= 77315

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.687	1.496	1.484	1.382	1.261	1.462	10.8*
bis(2-Chloroethyl)ether *	1.497	1.307	1.287	1.185	1.094	1.274	11.9*
2-Chlorophenol *	1.404	1.314	1.370	1.388	1.286	1.352	3.7*
1,3-Dichlorobenzene *	1.500	1.426	1.459	1.478	1.402	1.453	2.7*
1,4-Dichlorobenzene *	1.494	1.421	1.474	1.515	1.453	1.471	2.5*
1,2-Dichlorobenzene *	1.411	1.343	1.377	1.392	1.309	1.366	3.0*
2-Methylphenol *	1.143	1.099	1.148	1.139	1.028	1.111	4.5*
2,2'-oxybis(1-Chloropropane	1.912	1.747	1.774	1.676	1.508	1.723	8.6
4-Methylphenol *	1.219	1.135	1.192	1.195	1.058	1.160	5.6*
N-Nitroso-di-n-propylamine *	1.056	0.972	1.021	0.980	0.850	0.976	8.0*
Hexachloroethane *	0.658	0.630	0.637	0.623	0.594	0.628	3.7*
Nitrobenzene *	0.478	0.444	0.443	0.457	0.432	0.451	3.9*
Isophorone *	0.872	0.827	0.872	0.913	0.838	0.864	3.9*
2-Nitrophenol *	0.237	0.246	0.243	0.257	0.248	0.246	3.0*
2,4-Dimethylphenol *	0.395	0.390	0.392	0.403	0.377	0.391	2.4*
bis(2-Chloroethoxy)methane *	0.550	0.522	0.538	0.545	0.516	0.534	2.7*
2,4-Dichlorophenol *	0.332	0.333	0.351	0.380	0.353	0.350	5.6*
1,2,4-Trichlorobenzene *	0.365	0.357	0.368	0.394	0.384	0.374	4.0*
Naphthalene *	1.092	1.076	1.135	1.189	1.153	1.129	4.1*
4-Chloroaniline	0.439	0.474	0.507	0.538	0.486	0.489	7.6
Hexachlorobutadiene	0.214	0.213	0.219	0.229	0.221	0.219	2.9
4-Chloro-3-methylphenol *	0.350	0.337	0.359	0.367	0.333	0.349	4.1*
2-Methylnaphthalene *	0.733	0.711	0.732	0.776	0.709	0.732	3.7*
Hexachlorocyclopentadiene	0.406	0.459	0.471	0.530	0.568	0.487	13.0
2,4,6-Trichlorophenol *	0.438	0.418	0.431	0.470	0.462	0.444	4.9*
2,4,5-Trichlorophenol *		0.457	0.450	0.481	0.486	0.468	3.8*
2-Chloronaphthalene *	1.242	1.239	1.243	1.355	1.349	1.286	4.7*
2-Nitroaniline		0.427	0.440	0.460	0.442	0.442	3.1
Dimethylphthalate	1.328	1.294	1.344	1.437	1.346	1.350	3.9
Acenaphthylene *	1.893	1.826	1.854	1.951	1.905	1.886	2.6*
2,6-Dinitrotoluene *	0.286	0.282	0.288	0.322	0.300	0.296	5.5*
3-Nitroaniline		0.251	0.273	0.303	0.286	0.278	7.9
Acenaphthene *	1.099	1.066	1.100	1.186	1.146	1.119	4.2*
2,4-Dinitrophenol		0.172	0.196	0.225	0.213	0.202	11.4
4-Nitrophenol		0.155	0.168	0.193	0.174	0.172	9.2
Dibenzofuran *	1.550	1.509	1.573	1.667	1.590	1.578	3.7*
2,4-Dinitrotoluene *	0.365	0.365	0.378	0.391	0.364	0.373	3.2*

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

000141

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Instrument ID: HP6 Calibration Date(s): 03/31/96 03/31/96

Calibration Times: 1250 1446

LAB FILE ID: RRF20 = 77312 RRF50 = 77311

RRF80 = 77313 RRF120= 77314 RRF160= 77315

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Diethylphthalate	1.254	1.190	1.282	1.316	1.217	1.252	4.0
4-Chlorophenyl-phenylether *	0.576	0.552	0.572	0.613	0.584	0.579	3.8*
Fluorene *	1.163	1.133	1.186	1.240	1.196	1.184	3.4*
4-Nitroaniline		0.264	0.290	0.313	0.291	0.290	6.9
4,6-Dinitro-2-methylphenol		0.170	0.182	0.200	0.202	0.188	8.1
N-Nitrosodiphenylamine (1)	0.567	0.566	0.614	0.631	0.620	0.600	5.1
4-Bromophenyl-phenylether *	0.270	0.278	0.280	0.297	0.291	0.283	3.8*
Hexachlorobenzene *	0.297	0.300	0.298	0.319	0.304	0.304	3.0*
Pentachlorophenol *		0.162	0.171	0.196	0.192	0.180	9.1*
Phenanthrene *	1.045	1.039	1.064	1.154	1.138	1.088	5.0*
Anthracene *	1.029	1.041	1.085	1.137	1.109	1.080	4.2*
Carbazole	0.823	0.858	0.889	0.954	0.951	0.895	6.4
Di-n-butylphthalate	1.257	1.325	1.380	1.476	1.484	1.384	7.1
Fluoranthene *	0.830	0.869	0.860	0.913	0.965	0.887	5.9*
Pyrene *	2.111	1.826	2.133	2.215	2.049	2.067	7.1*
Butylbenzylphthalate	0.857	0.831	0.953	1.027	1.015	0.937	9.6
3,3'-Dichlorobenzidine	0.257	0.263	0.317	0.357	0.356	0.310	15.6
Benzo(a)anthracene *	1.241	1.188	1.274	1.366	1.333	1.280	5.6*
Chrysene *	1.138	1.073	1.100	1.156	1.131	1.120	2.9*
bis(2-Ethylhexyl)phthalate	0.885	0.923	0.988	1.131	1.133	1.012	11.4
Di-n-octylphthalate	1.755	1.916	1.928	2.268	2.192	2.012	10.6
Benzo(b)fluoranthene *	1.250	1.239	1.323	1.339	1.330	1.296	3.7*
Benzo(k)fluoranthene *	1.183	1.216	1.073	1.299	1.137	1.182	7.2*
Benzo(a)pyrene *	0.994	1.030	1.019	1.149	1.102	1.059	6.1*
Indeno(1,2,3-cd)pyrene *	0.936	0.945	1.139	1.201	1.160	1.076	11.7*
Dibenz(a,h)anthracene *	0.703	0.726	0.864	0.926	0.900	0.824	12.4*
Benzo(g,h,i)perylene *	0.757	0.733	0.898	0.934	0.904	0.845	11.0*
Nitrobenzene-d5 *	0.490	0.459	0.476	0.492	0.482	0.480	2.8*
2-Fluorobiphenyl *	1.374	1.323	1.334	1.438	1.451	1.384	4.2*
Terphenyl-d14 *	1.265	1.130	1.357	1.407	1.313	1.294	8.2*
Phenol-d5 *	1.568	1.427	1.411	1.306	1.183	1.379	10.4*
2-Fluorophenol *	0.959	0.980	1.032	1.068	1.013	1.010	4.2*
2,4,6-Tribromophenol	0.130	0.135	0.136	0.143	0.140	0.137	3.6
2-Chlorophenol-d4 *	1.326	1.275	1.320	1.333	1.238	1.298	3.1*
1,2-Dichlorobenzene-d4 *	0.863	0.861	0.895	0.928	0.870	0.883	3.2*

(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.

Calibration Table Status Report

Method: OLM03_8.M Protocol: CLP 3/90
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Calibration Date: Sun Mar 31 15:52:30 1996

000142

Inst: HP6

Originals retained at RD AATSLA 043096
Pages 000142 To 000171

Calibration File IDs
20 =77312.D 80 =77313.D 120 =77314.D
160 =77315.D 50 =77311.D

	Compound	20	80	120	160	50	Avg	%RSD
8	CI30 1,4-Dichlorobenze	ISTD						
1	CS50 2-Fluorophenol	0.959	1.031	1.068	1.013	0.980	1.010	4.24
2	CS70 2-Chlorophenol-d4	1.326	1.319	1.333	1.238	1.275	1.298	3.14
3	C325 bis(2-Chloroethyl	1.497	1.287	1.185	1.094	1.307	1.274	11.84
4	CS45 Phenol-d5	1.568	1.411	1.306	1.183	1.427	1.379	10.44
5	C330 2-Chlorophenol	1.404	1.370	1.388	1.286	1.314	1.353	3.71
6	C315 Phenol	1.687	1.484	1.382	1.261	1.496	1.462	10.77
7	C335 1,3-Dichlorobenze	1.500	1.459	1.478	1.402	1.426	1.453	2.72
9	C340 1,4-Dichlorobenze	1.494	1.474	1.515	1.453	1.421	1.471	2.46
10	CS75 1,2-Dichlorobenze	0.863	0.895	0.928	0.870	0.861	0.883	3.23
11	C350 1,2-Dichlorobenze	1.411	1.377	1.392	1.309	1.343	1.366	2.98
12	C360 2,2'-oxybis(1-Chl	1.912	1.774	1.676	1.508	1.747	1.724	8.58
13	C355 2-Methylphenol	1.143	1.148	1.139	1.028	1.099	1.111	4.54
14	C375 Hexachloroethane	0.658	0.637	0.623	0.594	0.630	0.628	3.66
15	C370 N-Nitroso-di-n-pr	1.056	1.021	0.980	0.850	0.972	0.976	8.03
16	C365 4-Methylphenol	1.219	1.192	1.195	1.058	1.135	1.160	5.60
25	CI40 Naphthalene-d8	ISTD						
17	CS20 Nitrobenzene-d5	0.490	0.476	0.492	0.482	0.459	0.480	2.75
18	C410 Nitrobenzene	0.478	0.443	0.457	0.432	0.444	0.451	3.91
19	C415 Isophorone	0.872	0.872	0.913	0.838	0.827	0.865	3.93
20	C420 2-Nitrophenol	0.237	0.243	0.257	0.248	0.246	0.246	3.04
21	C425 2,4-Dimethylpheno	0.395	0.392	0.403	0.377	0.390	0.392	2.46
22	C435 bis(2-Chloroethox	0.550	0.538	0.545	0.516	0.522	0.534	2.79
23	C440 2,4-Dichloropheno	0.332	0.351	0.380	0.353	0.333	0.350	5.58
24	C445 1,2,4-Trichlorobe	0.365	0.368	0.394	0.384	0.357	0.374	4.00
26	C450 Naphthalene	1.092	1.135	1.189	1.153	1.076	1.129	4.07
27	C455 4-Chloroaniline	0.439	0.507	0.538	0.486	0.474	0.489	7.57
28	C460 Hexachlorobutadie	0.214	0.219	0.229	0.221	0.213	0.219	2.83
29	C465 4-Chloro-3-methyl	0.350	0.359	0.367	0.333	0.337	0.349	4.16
30	C470 2-Methylnaphthale	0.733	0.732	0.776	0.709	0.711	0.732	3.71
40	CI50 Acenaphthene-d10	ISTD						
31	C510 Hexachlorocyclope	0.406	0.471	0.530	0.568	0.459	0.487	13.00
32	C515 2,4,6-Trichloroph	0.438	0.431	0.470	0.462	0.418	0.444	4.93
33	C520 2,4,5-Trichloroph	0.433	0.450	0.481	0.486	0.457	0.461	4.82
34	CS25 2-Fluorobiphenyl	1.374	1.334	1.438	1.451	1.323	1.384	4.24
35	C525 2-Chloronaphthale	1.242	1.243	1.355	1.349	1.239	1.286	4.72
36	C530 2-Nitroaniline	0.447	0.440	0.460	0.442	0.427	0.443	2.66
37	C535 Dimethylphthalate	1.328	1.344	1.437	1.346	1.294	1.350	3.94
38	C540 Acenaphthylene	1.893	1.854	1.951	1.905	1.826	1.886	2.55
39	C543 2,6-Dinitrotoluen	0.286	0.288	0.322	0.300	0.282	0.296	5.46
41	C545 3-Nitroaniline	0.267	0.273	0.303	0.286	0.251	0.276	7.07
42	C550 Acenaphthene	1.099	1.100	1.186	1.146	1.066	1.120	4.17
43	C555 2,4-Dinitrophenol	0.121	0.196	0.225	0.213	0.172	0.185	22.29

* = QC Criteria Failed ** = % RSD > 40, Calibration Failed
# = Minimun RF Failed, % RSD Passed

Calibration Table Status Report
Method: OLM03_S.M Protocol: CLP 3/90
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Calibration Date: Sun Mar 31 15:52:30 1996 Inst: HP6

000143

Calibration File IDs
20 =77312.D 80 =77313.D 120 =77314.D
160 =77315.D 50 =77311.D

	Compound	20	80	120	160	50	Avg	%RSD
44	C565 Dibenzofuran	1.550	1.573	1.667	1.590	1.509	1.578	3.70
45	C560 4-Nitrophenol	0.118	0.168	0.193	0.174	0.155	0.162	17.14
46	C570 2,4-Dinitrotoluen	0.365	0.378	0.391	0.364	0.365	0.373	3.14
47	C580 Diethylphthalate	1.254	1.282	1.316	1.217	1.190	1.252	4.01
48	C590 Fluorene	1.163	1.186	1.240	1.196	1.133	1.184	3.37
49	C585 4-Chlorophenyl-ph	0.576	0.572	0.613	0.584	0.552	0.579	3.78
50	C595 4-Nitroaniline	0.246	0.290	0.313	0.291	0.264	0.281	9.22
57	CI60 Phenanthrene-d10	----------	----------	ISTD	----------	----------	----------	----------
51	C615 N-Nitrosodiphenyl	0.567	0.614	0.631	0.620	0.566	0.600	5.14
52	C610 4,6-Dinitro-2-met	0.133	0.182	0.200	0.202	0.170	0.177	15.83
53	CS55 2,4,6-Tribromophe	0.130	0.136	0.143	0.140	0.135	0.137	3.79
54	C625 4-Bromophenyl-phe	0.270	0.280	0.297	0.291	0.278	0.283	3.83
55	C630 Hexachlorobenzene	0.297	0.298	0.319	0.304	0.300	0.304	2.92
56	C635 Pentachlorophenol	0.131	0.171	0.196	0.192	0.162	0.170	15.41
58	C640 Phenanthrene	1.045	1.064	1.154	1.138	1.039	1.088	4.97
59	C645 Anthracene	1.029	1.085	1.137	1.109	1.041	1.080	4.18
60	C648 Carbazole	0.823	0.889	0.954	0.951	0.858	0.895	6.42
61	C650 Di-n-butylphthala	1.257	1.380	1.476	1.484	1.325	1.384	7.04
62	C655 Fluoranthene	0.830	0.860	0.913	0.965	0.869	0.888	5.92
67	CI70 Chrysene-d12	----------	----------	ISTD	----------	----------	----------	----------
63	C715 Pyrene	2.111	2.133	2.215	2.048	1.826	2.067	7.13
64	CS30 Terphenyl-d14	1.265	1.357	1.407	1.313	1.130	1.294	8.16
65	C720 Butylbenzylphthal	0.857	0.953	1.027	1.015	0.831	0.937	9.56
66	C730 Benzo(a)anthracen	1.241	1.274	1.366	1.333	1.188	1.280	5.57
68	C725 3,3'-Dichlorobenz	0.257	0.317	0.357	0.356	0.263	0.310	15.58
69	C740 Chrysene	1.138	1.100	1.156	1.131	1.073	1.120	2.93
70	C745 bis(2-Ethylhexyl)	0.885	0.988	1.131	1.133	0.923	1.012	11.42
75	CI75 Perylene-d12	----------	----------	ISTD	----------	----------	----------	----------
71	C760 Di-n-octylphthala	1.755	1.928	2.268	2.192	1.916	2.012	10.56
72	C765 Benzo(b)fluoranth	1.250	1.323	1.339	1.330	1.239	1.296	3.70
73	C770 Benzo(k)fluoranth	1.183	1.073	1.299	1.137	1.216	1.182	7.18
74	C775 Benzo(a)pyrene	0.994	1.019	1.149	1.102	1.030	1.059	6.06
76	C780 Indeno(1,2,3-cd)p	0.936	1.139	1.201	1.160	0.945	1.076	11.69
77	C785 Dibenz(a,h)anthra	0.703	0.864	0.926	0.900	0.726	0.824	12.44
78	C790 Benzo(g,h,i)peryl	0.756	0.898	0.934	0.904	0.733	0.845	11.01

* = QC Criteria Failed ** = % RSD > 40, Calibration Failed
# = Minimun RF Failed, % RSD Passed

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

000144

Continuing Calibration File: 77311.D Inst: HP6

FK#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
8	I	CI30 1,4-Dichlorobenzene-d4	1.000	1.000	0.0		
1	S	CS50 2-Fluorophenol	1.010	0.980	3.0	0.600	25.0
2	S	CS70 2-Chlorophenol-d4	1.298	1.275	1.8	0.800	25.0
3	S	CS45 Phenol-d5	1.379	1.427	3.5	0.800	25.0
4	T	C325 bis(2-Chloroethyl)ether	1.274	1.307	2.6	0.700	25.0
5	T	C315 Phenol	1.462	1.496	2.3	0.800	25.0
6	T	C330 2-Chlorophenol	1.353	1.314	2.8	0.800	25.0
7	T	C335 1,3-Dichlorobenzene	1.453	1.426	1.9	0.600	25.0
9	T	C340 1,4-Dichlorobenzene	1.471	1.421	3.4	0.500	25.0
10	S	CS75 1,2-Dichlorobenzene-d4	0.883	0.861	2.5	0.400	25.0
11	T	C350 1,2-Dichlorobenzene	1.366	1.343	1.7	0.400	25.0
12	T	C360 2,2'-oxybis(1-Chloroprop	1.724	1.747	1.4	0.010	
13	T	C355 2-Methylphenol	1.111	1.099	1.1	0.700	25.0
14	T	C375 Hexachloroethane	0.628	0.630	0.3	0.300	25.0
15	T	C370 N-Nitroso-di-n-propylami	0.976	0.972	0.4	0.500	25.0
16	T	C365 4-Methylphenol	1.160	1.135	2.1	0.600	25.0
25	I	CI40 Naphthalene-d8	1.000	1.000	0.0		
17	S	CS20 Nitrobenzene-d5	0.480	0.459	4.3	0.200	25.0
18	T	C410 Nitrobenzene	0.451	0.444	1.5	0.200	25.0
19	T	C415 Isophorone	0.865	0.827	4.4	0.400	25.0
0	T	C420 2-Nitrophenol	0.246	0.246	0.2	0.100	25.0
21	T	C425 2,4-Dimethylphenol	0.392	0.390	0.4	0.200	25.0
22	T	C435 bis(2-Chloroethoxy)metha	0.534	0.522	2.3	0.300	25.0
23	T	C440 2,4-Dichlorophenol	0.350	0.333	4.7	0.200	25.0
24	T	C445 1,2,4-Trichlorobenzene	0.374	0.357	4.4	0.200	25.0
26	T	C450 Naphthalene	1.129	1.076	4.7	0.700	25.0
27	T	C455 4-Chloroaniline	0.489	0.474	3.1	0.010	
28	T	C460 Hexachlorobutadiene	0.219	0.213	2.6	0.010	
29	T	C465 4-Chloro-3-methylphenol	0.349	0.337	3.4	0.200	25.0
30	T	C470 2-Methylnaphthalene	0.732	0.711	2.9	0.400	25.0
40	I	CI50 Acenaphthene-d10	1.000	1.000	0.0		
31	T	C510 Hexachlorocyclopentadien	0.487	0.459	5.7	0.010	
32	T	C515 2,4,6-Trichlorophenol	0.444	0.418	5.9	0.200	25.0
33	T	C520 2,4,5-Trichlorophenol	0.461	0.457	0.9	0.200	25.0
34	S	CS25 2-Fluorobiphenyl	1.384	1.323	4.4	0.700	25.0
35	T	C525 2-Chloronaphthalene	1.286	1.239	3.6	0.800	25.0
36	T	C530 2-Nitroaniline	0.443	0.427	3.6	0.010	
37	T	C535 Dimethylphthalate	1.350	1.294	4.1	0.010	
38	T	C540 Acenaphthylene	1.886	1.826	3.2	0.900	25.0
39	T	C543 2,6-Dinitrotoluene	0.296	0.282	4.6	0.200	25.0
41	T	C545 3-Nitroaniline	0.276	0.251	9.0	0.010	
42	T	C550 Acenaphthene	1.120	1.066	4.8	0.900	25.0
43	T	C555 2,4-Dinitrophenol	0.185	0.172	7.0	0.010	
44	T	C565 Dibenzofuran	1.578	1.509	4.3	0.800	25.0
45	T	C560 4-Nitrophenol	0.162	0.155	4.1	0.010	
46	T	C570 2,4-Dinitrotoluene	0.373	0.365	2.1	0.200	25.0

(*) = Out of Range (**) = % Dev fails CLP maximum acceptance criteria

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Continuing Calibration File: 77311.D Inst: HP6

000145

#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
47	T	C580 Diethylphthalate	1.252	1.190	4.9	0.010	
48	T	C590 Fluorene	1.184	1.133	4.3	0.900	25.0
49	T	C585 4-Chlorophenyl-phenyleth	0.579	0.552	4.7	0.400	25.0
50	T	C595 4-Nitroaniline	0.281	0.264	5.8	0.010	
57	I	CI60 Phenanthrene-d10	1.000	1.000	0.0		
51	T	C610 4,6-Dinitro-2-methylphen	0.177	0.170	4.1	0.010	
52	T	C615 N-Nitrosodiphenylamine	0.600	0.566	5.5	0.010	
53	S	CS55 2,4,6-Tribromophenol	0.137	0.135	1.4	0.010	
54	T	C625 4-Bromophenyl-phenylethe	0.283	0.278	1.8	0.100	25.0
55	T	C630 Hexachlorobenzene	0.304	0.300	1.3	0.100	25.0
56	T	C635 Pentachlorophenol	0.170	0.162	4.9	0.050	25.0
58	T	C640 Phenanthrene	1.088	1.039	4.5	0.700	25.0
59	T	C645 Anthracene	1.080	1.041	3.6	0.700	25.0
60	T	C648 Carbazole	0.895	0.858	4.2	0.010	
61	T	C650 Di-n-butylphthalate	1.384	1.325	4.3	0.010	
62	T	C655 Fluoranthene	0.888	0.869	2.1	0.600	25.0
67	I	CI70 Chrysene-d12	1.000	1.000	0.0		
63	T	C715 Pyrene	2.067	1.826	11.7	0.600	25.0
64	S	CS30 Terphenyl-d14	1.294	1.130	12.7	0.500	25.0
65	T	C720 Butylbenzylphthalate	0.937	0.831	11.2	0.010	
6	T	C730 Benzo(a)anthracene	1.280	1.188	7.2	0.800	25.0
3	T	C725 3,3'-Dichlorobenzidine	0.310	0.263	15.1	0.010	
9	T	C740 Chrysene	1.120	1.073	4.1	0.700	25.0
70	T	C745 bis(2-Ethylhexyl)phthala	1.012	0.923	8.8	0.010	
75	I	CI75 Perylene-d12	1.000	1.000	0.0		
71	T	C760 Di-n-octylphthalate	2.012	1.916	4.8	0.010	
72	T	C765 Benzo(b)fluoranthene	1.296	1.239	4.4	0.700	25.0
73	T	C770 Benzo(k)fluoranthene	1.182	1.216	2.9	0.700	25.0
74	T	C775 Benzo(a)pyrene	1.059	1.030	2.7	0.700	25.0
76	T	C780 Indeno(1,2,3-cd)pyrene	1.076	0.945	12.2	0.500	25.0
77	T	C785 Dibenz(a,h)anthracene	0.824	0.726	11.9	0.400	25.0
78	T	C790 Benzo(g,h,i)perylene	0.845	0.733	13.3	0.500	25.0

(*) = QC Criteria Failed (**) = > 40 % Dev., Reanalyze Standard

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 12:50

Data File: C:\CHEMPC\DATA\033196\77311.D

Name: SSTD0506C S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 12:22:10 1996

Quantitated using Multiple Level Calibration

RD 040996 000146

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.68	152	130753	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.21	136	393897	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.36	164	214258	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.48	188	265193	40.00	ug/mL	0.01
67) CI70 Chrysene-d12	15.63	240	126392	40.00	ug/mL	0.01
75) CI75 Perylene-d12	17.74	264	88637	40.00	ug/mL	0.01
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.84	112	160103	32.91	ug/mL	21.94%
2) CS70 2-Chlorophenol-d4	5.40	132	208352	34.93	ug/mL	23.29%
4) CS45 Phenol-d5	5.41	99	233249	34.42	ug/mL	22.94%
10) CS75 1,2-Dichlorobenzene-d	5.94	152	140688	33.38	ug/mL	33.38%
17) CS20 Nitrobenzene-d5	6.45	82	226046	34.15	ug/mL	34.15%
34) CS25 2-Fluorobiphenyl	8.51	172	354268	33.36	ug/mL	33.36%
53) CS55 2,4,6-Tribromophenol	10.49	330	44622	32.68	ug/mL	21.78%
64) CS30 Terphenyl-d14	14.02	244	178577	33.34	ug/mL	33.34%
Target Compounds						ISTD#
3) C325 bis(2-Chloroethyl)eth	5.42	93	213680	36.68	ug/mL	001#
5) C330 2-Chlorophenol	5.43	128	214818	34.81	ug/mL	001
6) C315 Phenol	5.43	94	244563	36.45	ug/mL	001#
7) C335 1,3-Dichlorobenzene	5.61	146	233012	34.08	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.70	146	232284	33.81	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.95	146	219576	34.71	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.18	45	285543	37.51	ug/mL	001
13) C355 2-Methylphenol	6.23	108	179606	35.60	ug/mL	001
14) C375 Hexachloroethane	6.31	117	102979	35.50	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.35	70	158913	38.03	ug/mL	001
16) C365 4-Methylphenol	6.39	108	185517	36.41	ug/mL	001
18) C410 Nitrobenzene	6.47	77	218457	35.55	ug/mL	002
19) C415 Isophorone	6.74	82	407063	34.81	ug/mL	002
20) C420 2-Nitrophenol	6.83	139	120929	35.32	ug/mL	002
21) C425 2,4-Dimethylphenol	6.95	107	191944	36.58	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	7.03	93	256912	35.63	ug/mL	002
23) C440 2,4-Dichlorophenol	7.11	162	164175	34.51	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.16	180	176021	34.08	ug/mL	002
26) C450 Naphthalene	7.23	128	529664	35.71	ug/mL	002
27) C455 4-Chloroaniline	7.35	127	233205	34.50	ug/mL	002
28) C460 Hexachlorobutadiene	7.43	225	105012	33.12	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.94	107	166091	35.52	ug/mL	002
30) C470 2-Methylnaphthalene	8.02	142	350137	35.41	ug/mL	002
31) C510 Hexachlorocyclopentad	8.29	237	122978	31.83	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.42	196	111860	33.31	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.48	196	122481	35.29	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 12:50

Data File: C:\CHEMPC\DATA\033196\77311.D

Name: SSTD0506C S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

Method: OLMO3_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 12:22:10 1996

Quantitated using Multiple Level Calibration

RD 040996 000147

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.61	162	331763	34.16	ug/mL	003
36)	C530 2-Nitroaniline	8.82	65	114438	34.02	ug/mL	003
37)	C535 Dimethylphthalate	9.10	163	346594	34.84	ug/mL	003
38)	C540 Acenaphthylene	9.15	152	488948	34.46	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.19	165	75543	33.70	ug/mL	003
41)	C545 3-Nitroaniline	9.38	138	67227	27.73	ug/mL	003
42)	C550 Acenaphthene	9.40	153	285555	34.76	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.53	184	46192	31.89	ug/mL	003#
44)	C565 Dibenzofuran	9.62	168	404218	34.56	ug/mL	003
45)	C560 4-Nitrophenol	9.68	109	41479	34.23	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.74	165	97697	34.58	ug/mL	003
47)	C580 Diethylphthalate	10.08	149	318668	34.38	ug/mL	003
48)	C590 Fluorene	10.10	166	303422	35.30	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.12	204	147883	34.24	ug/mL	003
50)	C595 4-Nitroaniline	10.26	138	70831	30.94	ug/mL	003#
51)	C610 4,6-Dinitro-2-methylp	10.32	198	56432	33.75	ug/mL	004#
52)	C615 N-Nitrosodiphenylamin	10.32	169	187774	35.77	ug/mL	004
54)	C625 4-Bromophenyl-phenyle	10.82	248	92243	35.08	ug/mL	004
55)	C630 Hexachlorobenzene	11.03	284	99282	34.41	ug/mL	004
56)	C635 Pentachlorophenol	11.33	266	53713	32.46	ug/mL	004
58)	C640 Phenanthrene	11.51	178	344530	34.67	ug/mL	004
59)	C645 Anthracene	11.58	178	345151	35.32	ug/mL	004
60)	C648 Carbazole	11.87	167	284373	34.10	ug/mL	004
61)	C650 Di-n-butylphthalate	12.55	149	439104	34.95	ug/mL	004
62)	C655 Fluoranthene	13.35	202	288187	33.64	ug/mL	004
63)	C715 Pyrene	13.69	202	288437	33.87	ug/mL	005
65)	C720 Butylbenzylphthalate	14.89	149	131355	33.50	ug/mL	005
66)	C730 Benzo(a)anthracene	15.60	228	187673	32.51	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.65	252	41542	27.74	ug/mL	005
69)	C740 Chrysene	15.67	228	169596	33.53	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.86	149	145882	32.91	ug/mL	005
71)	C760 Di-n-octylphthalate	16.78	149	212275	36.41	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.22	252	137272	33.84	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.26	252	134753	39.81	ug/mL	006
74)	C775 Benzo(a)pyrene	17.66	252	114137	34.25	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.07	276	104690	28.32	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.09	278	80428	28.46	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.38	276	81173	27.74	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 12:50

Data File: C:\CHEMPC\DATA\033196\77311.D

Name: SSTD050bC S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

Method: OLMO3_S.M Inst: HP6

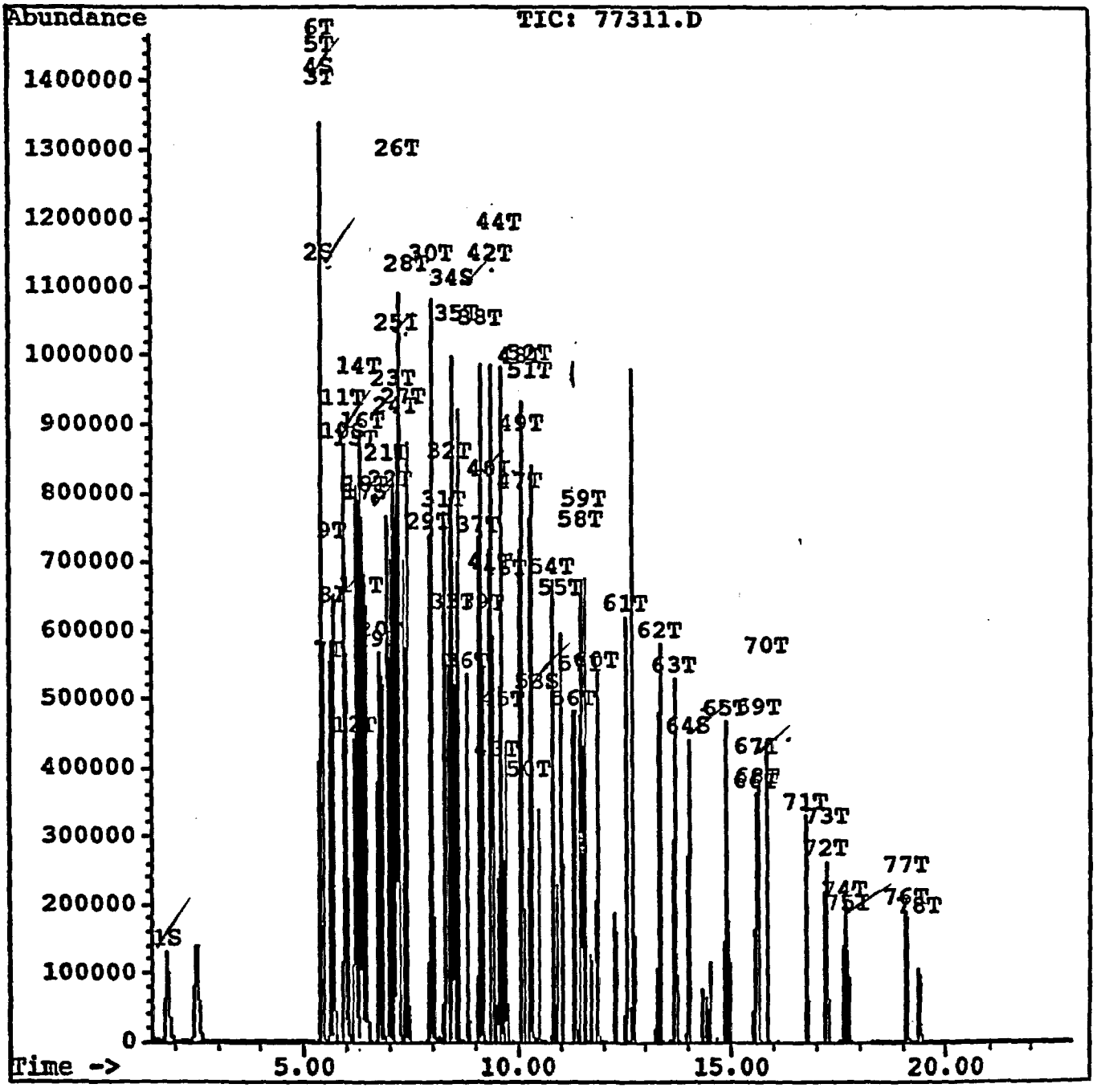
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 12:22:10 1996

Quantitated using Multiple Level Calibration

RD 040996

000148



QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:20
Data File: C:\CHEMPC\DATA\033196\77312.D
Name: SSTD020bc S-96-094
Misc: HP6*AATSLA*SSTD020*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 13:19:28 1996
Quantitated using Multiple Level Calibration

RD 040996

000149

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.67	152	125009	40.00	ug/mL	-0.00
25) CI40 Naphthalene-d8	7.19	136	387035	40.00	ug/mL	-0.01
40) CI50 Acenaphthene-d10	9.35	164	211072	40.00	ug/mL	-0.01
57) CI60 Phenanthrene-d10	11.47	188	271254	40.00	ug/mL	-0.01
67) CI70 Chrysene-d12	15.62	240	107113	40.00	ug/mL	-0.01
75) CI75 Perylene-d12	17.74	264	74649	40.00	ug/mL	-0.00
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.84	112	59916	13.67	ug/mL	9.11%
2) CS70 2-Chlorophenol-d4	5.40	132	82885	15.51	ug/mL	10.34%
3) CS45 Phenol-d5	5.40	99	98037	15.93	ug/mL	10.62%
10) CS75 1,2-Dichlorobenzene-d	5.93	152	53938	14.30	ug/mL	14.30%
17) CS20 Nitrobenzene-d5	6.44	82	94757	15.42	ug/mL	15.42%
34) CS25 2-Fluorobiphenyl	8.50	172	144987	14.75	ug/mL	14.75%
53) CS55 2,4,6-Tribromophenol	10.48	330	17589	13.52	ug/mL	9.01%
64) CS30 Terphenyl-d14	14.01	244	67769	16.30	ug/mL	16.30%
Target Compounds						ISTD#
4) C325 bis(2-Chloroethyl)eth	5.41	93	93547	17.72	ug/mL	001#
5) C315 Phenol	5.42	94	105476	17.29	ug/mL	001#
6) C330 2-Chlorophenol	5.42	128	87736	15.92	ug/mL	001
7) C335 1,3-Dichlorobenzene	5.61	146	93735	15.29	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.69	146	93360	15.20	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.95	146	88201	15.53	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.17	45	119531	17.24	ug/mL	001
13) C355 2-Methylphenol	6.22	108	71448	15.74	ug/mL	001
14) C375 Hexachloroethane	6.31	117	41100	15.72	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.34	70	66032	17.50	ug/mL	001
16) C365 4-Methylphenol	6.39	108	76194	16.69	ug/mL	001
18) C410 Nitrobenzene	6.46	77	92450	16.13	ug/mL	002
19) C415 Isophorone	6.73	82	168823	15.60	ug/mL	002
20) C420 2-Nitrophenol	6.83	139	45824	14.47	ug/mL	002
21) C425 2,4-Dimethylphenol	6.94	107	76493	15.73	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	7.01	93	106511	15.97	ug/mL	002
23) C440 2,4-Dichlorophenol	7.11	162	64177	14.67	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.17	180	70584	14.89	ug/mL	002
26) C450 Naphthalene	7.22	128	211294	15.37	ug/mL	002
27) C455 4-Chloroaniline	7.35	127	84950	13.77	ug/mL	002
28) C460 Hexachlorobutadiene	7.43	225	41360	14.31	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.94	107	67801	15.75	ug/mL	002
30) C470 2-Methylnaphthalene	8.01	142	141828	15.60	ug/mL	002
31) C510 Hexachlorocyclopentad	8.28	237	42855	12.08	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.42	196	46222	14.91	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.48	196	45682	14.12	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:20

Data File: C:\CHEMPC\DATA\033196\77312.D

Name: SSTD0206C S-96-094

Misc: HP6*AATSLA*SSTD020*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD 040996

000150

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.60	162	131126	14.58	ug/mL	003
36)	C530 2-Nitroaniline	8.82	65	47224	14.99	ug/mL	003
37)	C535 Dimethylphthalate	9.09	163	140103	15.21	ug/mL	003
38)	C540 Acenaphthylene	9.14	152	199737	15.24	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.19	165	30138	14.50	ug/mL	003
41)	C545 3-Nitroaniline	9.37	138	28182	12.75	ug/mL	003
42)	C550 Acenaphthene	9.40	153	116022	15.26	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.53	184	12723	9.58	ug/mL	003#
44)	C565 Dibenzofuran	9.61	168	163555	15.11	ug/mL	003
45)	C560 4-Nitrophenol	9.68	109	12496	11.10	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.72	165	38559	14.60	ug/mL	003#
47)	C580 Diethylphthalate	10.07	149	132297	15.38	ug/mL	003
48)	C590 Fluorene	10.10	166	122747	15.45	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.11	204	60791	15.31	ug/mL	003
50)	C595 4-Nitroaniline	10.24	138	25970	12.17	ug/mL	003#
51)	C610 4,6-Dinitro-2-methylp	10.30	198	18051	11.33	ug/mL	004#
52)	C615 N-Nitrosodiphenylamin	10.32	169	76851	15.38	ug/mL	004
54)	C625 4-Bromophenyl-phenyle	10.82	248	36633	14.67	ug/mL	004
55)	C630 Hexachlorobenzene	11.03	284	40315	14.68	ug/mL	004
56)	C635 Pentachlorophenol	11.32	266	17752	11.28	ug/mL	004
58)	C640 Phenanthrene	11.50	178	141687	14.93	ug/mL	004
59)	C645 Anthracene	11.57	178	139594	14.87	ug/mL	004
60)	C648 Carbazole	11.86	167	111654	13.89	ug/mL	004
61)	C650 Di-n-butylphthalate	12.54	149	170515	13.99	ug/mL	004
62)	C655 Fluoranthene	13.35	202	112606	13.52	ug/mL	004
63)	C715 Pyrene	13.69	202	113082	17.11	ug/mL	005
65)	C720 Butylbenzylphthalate	14.89	149	45884	14.72	ug/mL	005
66)	C730 Benzo(a)anthracene	15.60	228	66454	14.53	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.65	252	13772	11.88	ug/mL	005
69)	C740 Chrysene	15.66	228	60952	15.18	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.86	149	47371	13.36	ug/mL	005
71)	C760 Di-n-octylphthalate	16.77	149	65502	13.97	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.22	252	46643	14.67	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.25	252	44165	16.34	ug/mL	006
74)	C775 Benzo(a)pyrene	17.66	252	37110	14.19	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.07	276	34947	12.35	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.09	278	26238	12.19	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.38	276	28236	12.67	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:20

Data File: C:\CHEMPC\DATA\033196\77312.D

Name: SSTD0206 S-96-094

Misc: HP6*AATSLA*SSTD020*2uL*MS517

Method: OLMO3_S.M Inst: HP6

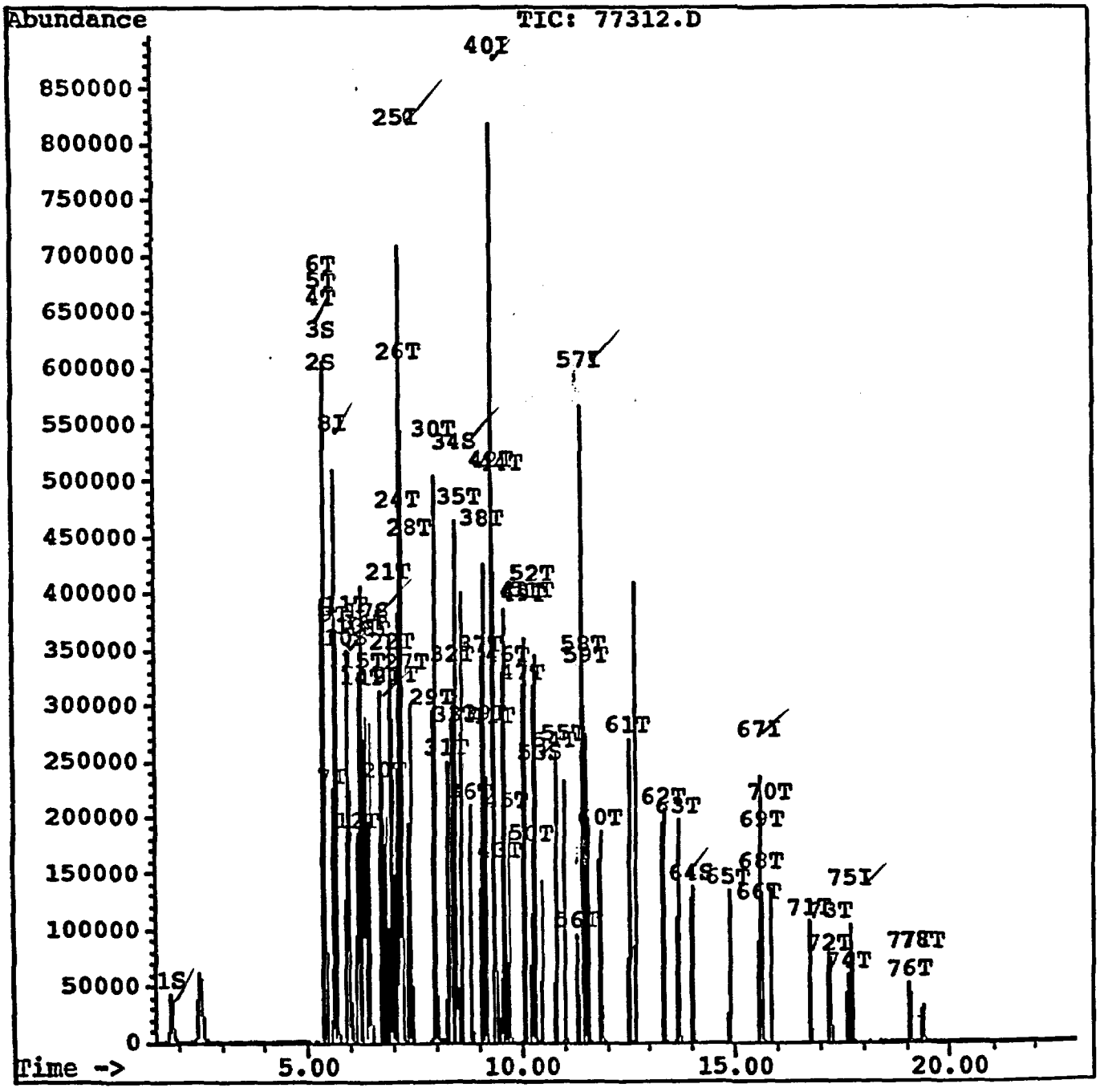
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD 040996

000151



QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:49

RD
040996 000152

Data File: C:\CHEMPC\DATA\033196\77313.D
Name: SSTD080 6c S-96-093
Misc: HP6*AATSLA*SSTD080*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 13:19:28 1996
Quantitated using Multiple Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.67	152	112880	40.00	ug/mL	-0.01
25) CI40 Naphthalene-d8	7.21	136	345738	40.00	ug/mL	0.00
40) CI50 Acenaphthene-d10	9.35	164	196722	40.00	ug/mL	-0.01
57) CI60 Phenanthrene-d10	11.47	188	247423	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.63	240	96336	40.00	ug/mL	0.00
75) CI75 Perylene-d12	17.74	264	70894	40.00	ug/mL	0.00
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.81	112	232873	58.84	ug/mL	39.23%
2) CS70 2-Chlorophenol-d4	5.39	132	297891	61.74	ug/mL	41.16%
3) CS45 Phenol-d5	5.41	99	318533	57.31	ug/mL	38.20%
10) CS75 1,2-Dichlorobenzene-d	5.94	152	202077	59.35	ug/mL	59.35%
17) CS20 Nitrobenzene-d5	6.46	82	328847	59.91	ug/mL	59.91%
34) CS25 2-Fluorobiphenyl	8.51	172	524980	57.32	ug/mL	57.32%
53) CS55 2,4,6-Tribromophenol	10.49	330	67059	56.49	ug/mL	37.66%
64) CS30 Terphenyl-d14	14.02	244	261389	69.92	ug/mL	69.92%
Target Compounds						ISTD#
4) C325 bis(2-Chloroethyl)eth	5.41	93	290612	60.95	ug/mL	001#
5) C315 Phenol	5.44	94	335119	60.84	ug/mL	001#
6) C330 2-Chlorophenol	5.42	128	309362	62.17	ug/mL	001
7) C335 1,3-Dichlorobenzene	5.60	146	329444	59.53	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.70	146	332868	60.01	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.95	146	310906	60.64	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.18	45	400513	63.97	ug/mL	001
13) C355 2-Methylphenol	6.24	108	259150	63.23	ug/mL	001
14) C375 Hexachloroethane	6.32	117	143793	60.89	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.37	70	230575	67.69	ug/mL	001
16) C365 4-Methylphenol	6.40	108	269154	65.29	ug/mL	001
18) C410 Nitrobenzene	6.48	77	306102	59.79	ug/mL	002
19) C415 Isophorone	6.74	82	603273	62.42	ug/mL	002
20) C420 2-Nitrophenol	6.83	139	167844	59.35	ug/mL	002
21) C425 2,4-Dimethylphenol	6.95	107	271142	62.40	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	7.03	93	372277	62.48	ug/mL	002
23) C440 2,4-Dichlorophenol	7.11	162	242527	62.04	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.16	180	254779	60.17	ug/mL	002
26) C450 Naphthalene	7.23	128	784736	63.92	ug/mL	002
27) C455 4-Chloroaniline	7.35	127	350322	63.55	ug/mL	002
28) C460 Hexachlorobutadiene	7.43	225	151303	58.60	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.94	107	248297	64.57	ug/mL	002
30) C470 2-Methylnaphthalene	8.02	142	506501	62.38	ug/mL	002
31) C510 Hexachlorocyclopentad	8.29	237	185286	56.05	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.43	196	169494	58.67	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.48	196	176882	58.64	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:49

Data File: C:\CHEMPC\DATA\033196\77313.D

Name: SSTD0806C S-96-093

Misc: HP6*AATSLA*SSTD080*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD
040996

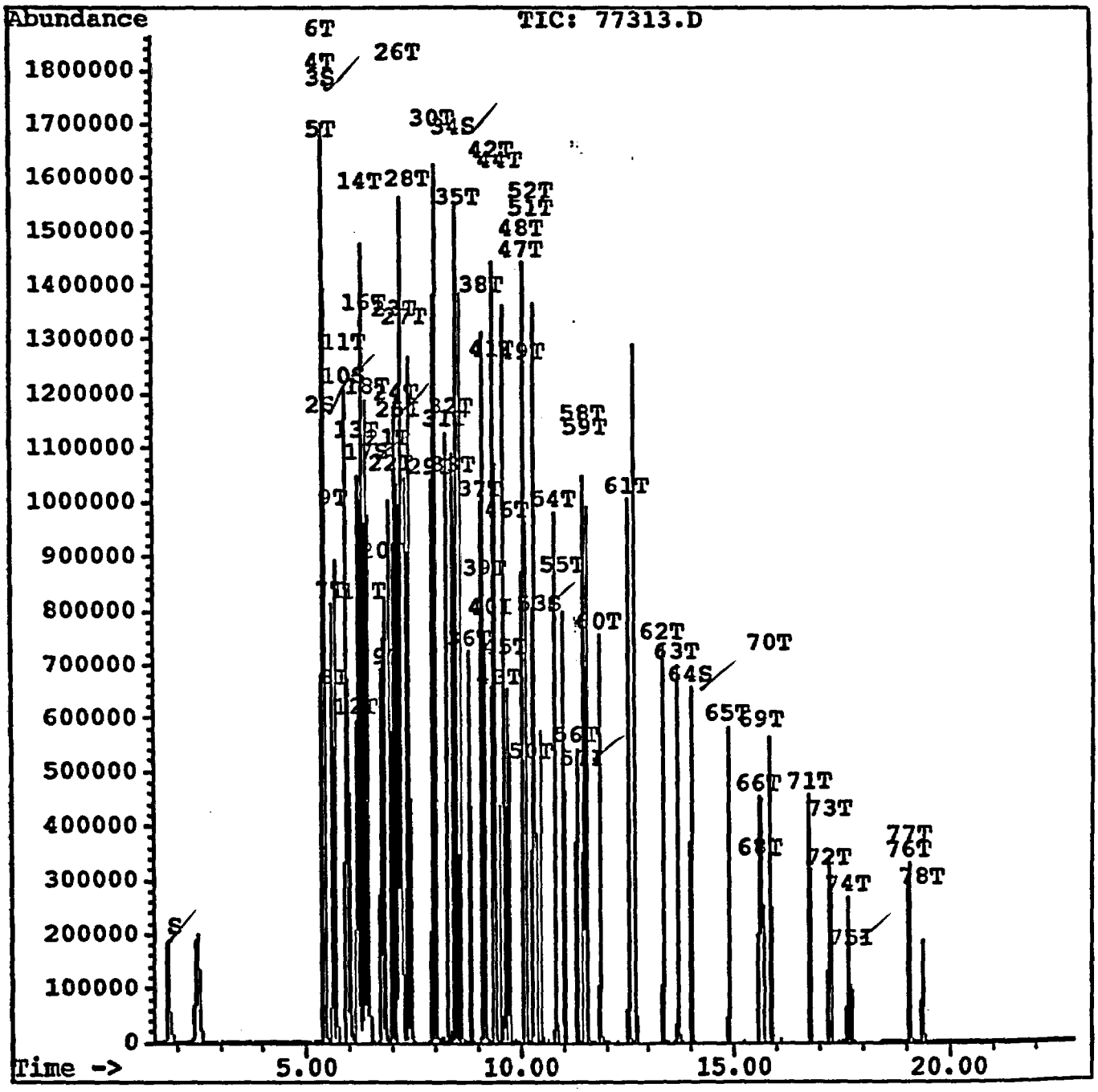
000153

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.62	162	488993	58.33	ug/mL	003
36)	C530 2-Nitroaniline	8.83	65	173006	58.93	ug/mL	003
37)	C535 Dimethylphthalate	9.11	163	528963	61.63	ug/mL	003
38)	C540 Acenaphthylene	9.15	152	729563	59.74	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.20	165	113490	58.60	ug/mL	003
41)	C545 3-Nitroaniline	9.39	138	107350	52.09	ug/mL	003
42)	C550 Acenaphthene	9.41	153	432922	61.10	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.54	184	77074	62.25	ug/mL	003#
44)	C565 Dibenzofuran	9.62	168	618909	61.36	ug/mL	003
45)	C560 4-Nitrophenol	9.69	109	65932	62.82	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.74	165	148544	60.35	ug/mL	003
47)	C580 Diethylphthalate	10.09	149	504350	62.89	ug/mL	003
48)	C590 Fluorene	10.11	166	466466	63.01	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.12	204	225136	60.85	ug/mL	003
50)	C595 4-Nitroaniline	10.28	138	113909	57.25	ug/mL	003#
51)	C610 4,6-Dinitro-2-methylp	10.33	198	90036	61.98	ug/mL	004#
52)	C615 N-Nitrosodiphenylamin	10.34	169	303847	66.65	ug/mL	004
54)	C625 4-Bromophenyl-phenyle	10.83	248	138355	60.74	ug/mL	004
55)	C630 Hexachlorobenzene	11.04	284	147421	58.84	ug/mL	004
56)	C635 Pentachlorophenol	11.33	266	84552	58.89	ug/mL	004
58)	C640 Phenanthrene	11.52	178	526426	60.82	ug/mL	004
59)	C645 Anthracene	11.58	178	537007	62.70	ug/mL	004
60)	C648 Carbazole	11.88	167	439844	59.98	ug/mL	004
61)	C650 Di-n-butylphthalate	12.55	149	682878	61.41	ug/mL	004
62)	C655 Fluoranthene	13.36	202	425640	56.03	ug/mL	004
63)	C715 Pyrene	13.69	202	410991	69.15	ug/mL	005
65)	C720 Butylbenzylphthalate	14.89	149	183554	65.49	ug/mL	005
66)	C730 Benzo(a)anthracene	15.60	228	245401	59.64	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.65	252	61067	58.56	ug/mL	005
69)	C740 Chrysene	15.68	228	211899	58.69	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.86	149	190388	59.70	ug/mL	005
71)	C760 Di-n-octylphthalate	16.78	149	273415	61.40	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.22	252	187613	62.14	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.26	252	152155	59.28	ug/mL	006
74)	C775 Benzo(a)pyrene	17.66	252	144543	58.20	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.08	276	161555	60.12	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.10	278	122547	59.94	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.39	276	127317	60.15	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:49 RD 040996
Data File: C:\CHEMPC\DATA\033196\77313.D
Name: SSTD0806c S-96-093
Misc: HP6*AATSLA*SSTD080*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 13:19:28 1996
Quantitated using Multiple Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:17
Data File: C:\CHEMPC\DATA\033196\77314.D
Name: SSTD120bc S-96-092
Misc: HP6*AATSLA*SSTD120*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 13:19:28 1996
Quantitated using Multiple Level Calibration

RD 040996 000155

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.68	152	131157	40.00	ug/mL	0.00
25) CI40 Naphthalene-d8	7.21	136	380170	40.00	ug/mL	0.00
40) CI50 Acenaphthene-d10	9.36	164	210079	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.48	188	262818	40.00	ug/mL	0.00
67) CI70 Chrysene-d12	15.63	240	107224	40.00	ug/mL	0.00
75) CI75 Perylene-d12	17.74	264	77082	40.00	ug/mL	-0.00
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.81	112	420051	91.35	ug/mL	60.90%
2) CS70 2-Chlorophenol-d4	5.41	132	524489	93.56	ug/mL	62.37%
3) CS45 Phenol-d5	5.44	99	513856	79.56	ug/mL	53.04%
10) CS75 1,2-Dichlorobenzene-d	5.95	152	365174	92.31	ug/mL	92.31%
17) CS20 Nitrobenzene-d5	6.48	82	560987	92.95	ug/mL	92.95%
34) CS25 2-Fluorobiphenyl	8.52	172	906471	92.68	ug/mL	92.68%
53) CS55 2,4,6-Tribromophenol	10.51	330	112895	89.54	ug/mL	59.69%
64) CS30 Terphenyl-d14	14.03	244	452478	108.75	ug/mL	108.75%
Target Compounds						ISTD#
4) C325 bis(2-Chloroethyl)eth	5.44	93	466359	84.18	ug/mL	001#
5) C315 Phenol	5.46	94	543830	84.98	ug/mL	001#
6) C330 2-Chlorophenol	5.44	128	546314	94.49	ug/mL	001
7) C335 1,3-Dichlorobenzene	5.61	146	581745	90.47	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.71	146	595921	92.46	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.96	146	547796	91.96	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.18	45	659597	90.67	ug/mL	001
13) C355 2-Methylphenol	6.25	108	448220	94.12	ug/mL	001
14) C375 Hexachloroethane	6.32	117	245258	89.39	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.39	70	385463	97.39	ug/mL	001
16) C365 4-Methylphenol	6.42	108	470315	98.18	ug/mL	001
18) C410 Nitrobenzene	6.49	77	520834	92.52	ug/mL	002
19) C415 Isophorone	6.77	82	1041583	98.01	ug/mL	002
20) C420 2-Nitrophenol	6.84	139	293236	94.29	ug/mL	002
21) C425 2,4-Dimethylphenol	6.98	107	460059	96.28	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	7.04	93	621785	94.90	ug/mL	002
23) C440 2,4-Dichlorophenol	7.13	162	433446	100.84	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.17	180	449343	96.51	ug/mL	002
26) C450 Naphthalene	7.24	128	1356157	100.46	ug/mL	002
27) C455 4-Chloroaniline	7.36	127	613839	101.27	ug/mL	002
28) C460 Hexachlorobutadiene	7.44	225	260626	91.79	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.95	107	418867	99.06	ug/mL	002
30) C470 2-Methylnaphthalene	8.02	142	885452	99.18	ug/mL	002
31) C510 Hexachlorocyclopentad	8.29	237	334233	94.68	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.43	196	296076	95.97	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.49	196	303440	94.20	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:17 RD 040996

Data File: C:\CHEMPC\DATA\033196\77314.D

Name: SSTD120 6C S-96-092

Misc: HP6*AATSLA*SSTD120*2uL*MS517

000156

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.63	162	853788	95.37	ug/mL	003
36)	C530 2-Nitroaniline	8.84	65	289664	92.39	ug/mL	003
37)	C535 Dimethylphthalate	9.12	163	905872	98.84	ug/mL	003
38)	C540 Acenaphthylene	9.16	152	1229619	94.29	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.22	165	202787	98.04	ug/mL	003
41)	C545 3-Nitroaniline	9.40	138	190820	86.71	ug/mL	003
42)	C550 Acenaphthene	9.42	153	747479	98.79	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.56	184	141837	107.27	ug/mL	003#
44)	C565 Dibenzofuran	9.64	168	1050638	97.54	ug/mL	003
45)	C560 4-Nitrophenol	9.71	109	121421	108.34	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.76	165	246453	93.77	ug/mL	003
47)	C580 Diethylphthalate	10.11	149	829364	96.84	ug/mL	003
48)	C590 Fluorene	10.12	166	781615	98.86	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.14	204	386064	97.72	ug/mL	003
50)	C595 4-Nitroaniline	10.31	138	197178	92.80	ug/mL	003#
51)	C610 4,6-Dinitro-2-methylp	10.36	198	157572	102.11	ug/mL	004#
52)	C615 N-Nitrosodiphenylamin	10.36	169	497408	102.71	ug/mL	004
54)	C625 4-Bromophenyl-phenyle	10.84	248	234289	96.83	ug/mL	004
55)	C630 Hexachlorobenzene	11.05	284	251182	94.37	ug/mL	004
56)	C635 Pentachlorophenol	11.34	266	154796	101.49	ug/mL	004
58)	C640 Phenanthrene	11.52	178	909976	98.98	ug/mL	004
59)	C645 Anthracene	11.60	178	896139	98.51	ug/mL	004
60)	C648 Carbazole	11.89	167	752525	96.60	ug/mL	004
61)	C650 Di-n-butylphthalate	12.56	149	1163777	98.53	ug/mL	004
62)	C655 Fluoranthene	13.37	202	719738	89.19	ug/mL	004
63)	C715 Pyrene	13.71	202	712407	107.70	ug/mL	005
65)	C720 Butylbenzylphthalate	14.90	149	330512	105.95	ug/mL	005
66)	C730 Benzo(a)anthracene	15.61	228	439525	95.97	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.66	252	114754	98.87	ug/mL	005
69)	C740 Chrysene	15.69	228	371809	92.52	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.87	149	363689	102.46	ug/mL	005
71)	C760 Di-n-octylphthalate	16.78	149	524497	108.33	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.23	252	309697	94.34	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.27	252	300453	107.67	ug/mL	006
74)	C775 Benzo(a)pyrene	17.67	252	265636	98.36	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.08	276	277741	95.07	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.11	278	214160	96.33	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.40	276	215901	93.82	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:17

Data File: C:\CHEMPC\DATA\033196\77314.D

Name: SSTD120bc S-96-092

Misc: HP6*AATSLA*SSTD120*2uL*MS517

Method: OLM03_S.M Inst: HP6

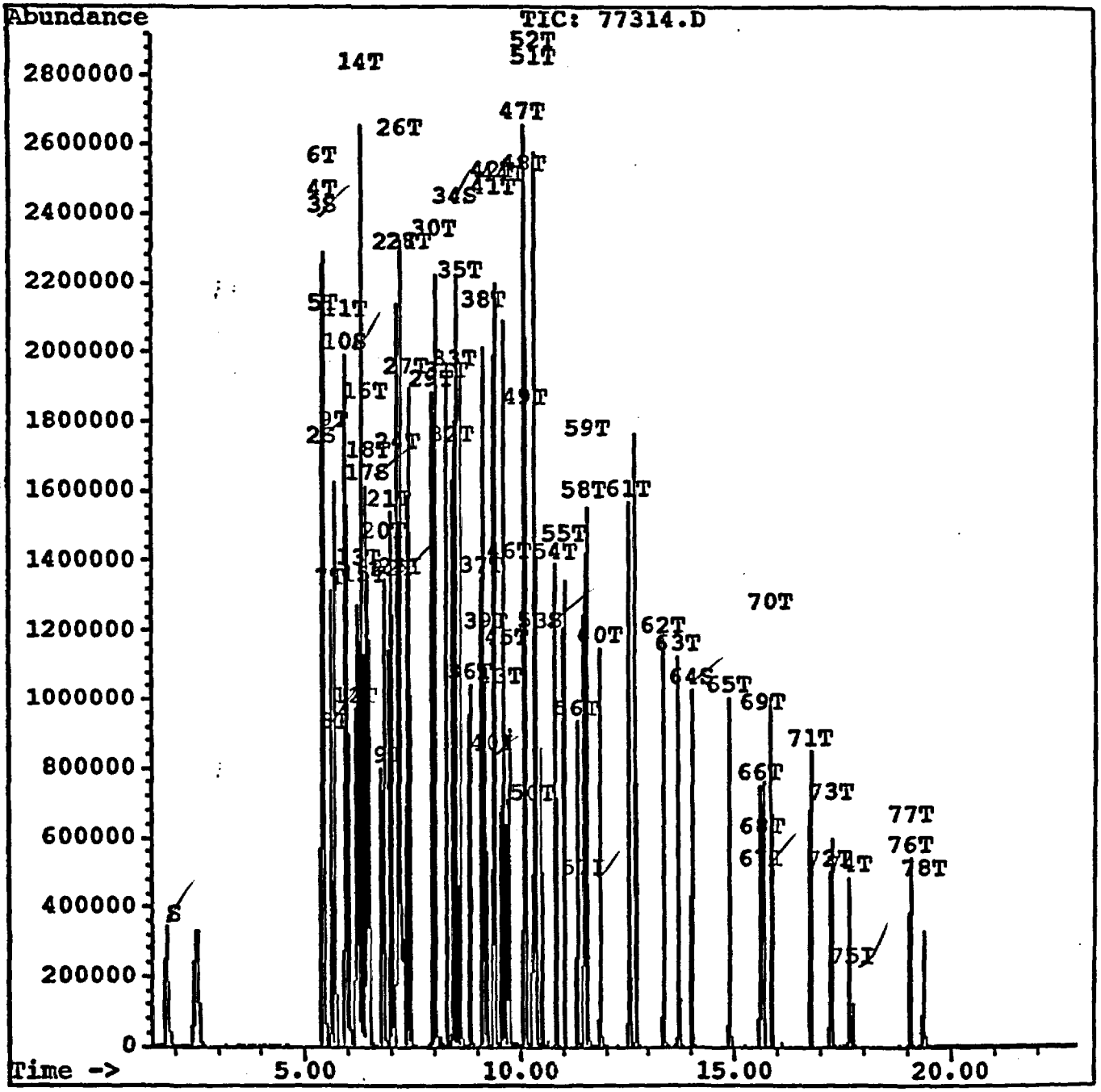
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD
040996

000157



QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:46 RD 040996

Data File: C:\CHEMPC\DATA\033196\77315.D 000158

Name: SSTD160bc S-96-091

Misc: HP6*AATSLA*SSTD160*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.69	152	127670	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.22	136	346507	40.00	ug/mL	0.01
40) CI50 Acenaphthene-d10	9.36	164	170394	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.48	188	203879	40.00	ug/mL	0.01
67) CI70 Chrysene-d12	15.64	240	93163	40.00	ug/mL	0.00
75) CI75 Perylene-d12	17.75	264	72302	40.00	ug/mL	0.00
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.84	112	517199	115.55	ug/mL	77.03%
2) CS70 2-Chlorophenol-d4	5.42	132	632002	115.81	ug/mL	77.21%
3) CS45 Phenol-d5	5.45	99	604297	96.12	ug/mL	64.08%
10) CS75 1,2-Dichlorobenzene-d	5.95	152	444067	115.31	ug/mL	115.31%
17) CS20 Nitrobenzene-d5	6.49	82	668505	121.52	ug/mL	121.52%
34) CS25 2-Fluorobiphenyl	8.52	172	988987	124.67	ug/mL	124.67%
53) CS55 2,4,6-Tribromophenol	10.51	330	114098	116.65	ug/mL	77.77%
64) CS30 Terphenyl-d14	14.03	244	489368	133.45	ug/mL	133.45%
Target Compounds						ISTD#
4) C325 bis(2-Chloroethyl)eth	5.44	93	558913	103.65	ug/mL	001#
5) C315 Phenol	5.47	94	644188	103.41	ug/mL	001#
6) C330 2-Chlorophenol	5.44	128	656887	116.72	ug/mL	001
7) C335 1,3-Dichlorobenzene	5.62	146	715821	114.36	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.71	146	741785	118.24	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.97	146	668254	115.24	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.19	45	770066	108.74	ug/mL	001
13) C355 2-Methylphenol	6.26	108	525090	113.27	ug/mL	001
14) C375 Hexachloroethane	6.32	117	303495	113.63	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.40	70	433836	112.60	ug/mL	001
16) C365 4-Methylphenol	6.43	108	540119	115.83	ug/mL	001
18) C410 Nitrobenzene	6.50	77	598429	116.64	ug/mL	002
19) C415 Isophorone	6.78	82	1161540	119.92	ug/mL	002
20) C420 2-Nitrophenol	6.84	139	344161	121.42	ug/mL	002
21) C425 2,4-Dimethylphenol	6.98	107	522472	119.97	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	7.05	93	715074	119.75	ug/mL	002
23) C440 2,4-Dichlorophenol	7.14	162	488923	124.80	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.18	180	532539	125.48	ug/mL	002
26) C450 Naphthalene	7.24	128	1597972	129.87	ug/mL	002
27) C455 4-Chloroaniline	7.37	127	673510	121.91	ug/mL	002
28) C460 Hexachlorobutadiene	7.45	225	305783	118.16	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.95	107	460883	119.58	ug/mL	002
30) C470 2-Methylnaphthalene	8.03	142	982173	120.70	ug/mL	002
31) C510 Hexachlorocyclopentad	8.29	237	387216	135.23	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.44	196	315227	125.97	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.49	196	331274	126.80	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:46

RD 040996

Data File: C:\CHEMPC\DATA\033196\77315.D

Name: SSTD160bC S-96-091

Misc: HP6*AATSLA*SSTD160*2uL*MS517

000159

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35) C525 2-Chloronaphthalene	8.63	162	919665	126.66	ug/mL	003
36) C530 2-Nitroaniline	8.85	65	300964	118.35	ug/mL	003
37) C535 Dimethylphthalate	9.12	163	917286	123.39	ug/mL	003
38) C540 Acenaphthylene	9.17	152	1298407	122.75	ug/mL	003
39) C543 2,6-Dinitrotoluene	9.22	165	204609	121.96	ug/mL	003
41) C545 3-Nitroaniline	9.41	138	194594	109.02	ug/mL	003
42) C550 Acenaphthene	9.42	153	780937	127.25	ug/mL	003
43) C555 2,4-Dinitrophenol	9.56	184	145459	135.63	ug/mL	003#
44) C565 Dibenzofuran	9.64	168	1083992	124.08	ug/mL	003
45) C560 4-Nitrophenol	9.71	109	118663	130.54	ug/mL	003#
46) C570 2,4-Dinitrotoluene	9.76	165	248340	116.49	ug/mL	003
47) C580 Diethylphthalate	10.11	149	829311	119.39	ug/mL	003
48) C590 Fluorene	10.12	166	815094	134.29	ug/mL	003
49) C585 4-Chlorophenyl-phenyl	10.14	204	397726	130.84	ug/mL	003
50) C595 4-Nitroaniline	10.31	138	198278	124.81	ug/mL	003
51) C610 4,6-Dinitro-2-methylp	10.36	198	164972	137.81	ug/mL	004#
52) C615 N-Nitrosodiphenylamin	10.36	169	505934	134.67	ug/mL	004
54) C625 4-Bromophenyl-phenyle	10.84	248	237720	126.65	ug/mL	004
55) C630 Hexachlorobenzene	11.05	284	248301	120.26	ug/mL	004
56) C635 Pentachlorophenol	11.34	266	156340	132.14	ug/mL	004
58) C640 Phenanthrene	11.53	178	927902	130.10	ug/mL	004
59) C645 Anthracene	11.60	178	904321	131.22	ug/mL	004
60) C648 Carbazole	11.89	167	775314	131.92	ug/mL	004
61) C650 Di-n-butylphthalate	12.56	149	1210082	135.89	ug/mL	004
62) C655 Fluoranthene	13.37	202	787266	129.54	ug/mL	004
63) C715 Pyrene	13.71	202	763382	130.97	ug/mL	005
65) C720 Butylbenzylphthalate	14.90	149	378143	142.51	ug/mL	005
66) C730 Benzo(a)anthracene	15.62	228	496758	123.06	ug/mL	005
68) C725 3,3'-Dichlorobenzidin	15.66	252	132538	132.30	ug/mL	005
69) C740 Chrysene	15.69	228	421305	118.39	ug/mL	005
70) C745 bis(2-Ethylhexyl)phth	15.87	149	422317	136.12	ug/mL	005
71) C760 Di-n-octylphthalate	16.79	149	634016	148.31	ug/mL	006
72) C765 Benzo(b)fluoranthene	17.24	252	384738	123.33	ug/mL	006
73) C770 Benzo(k)fluoranthene	17.28	252	328917	117.84	ug/mL	006
74) C775 Benzo(a)pyrene	17.68	252	318572	122.32	ug/mL	006
76) C780 Indeno(1,2,3-cd)pyren	19.09	276	335390	119.35	ug/mL	006
77) C785 Dibenz(a,h)anthracene	19.11	278	260147	121.08	ug/mL	006
78) C790 Benzo(g,h,i)perylene	19.40	276	261441	118.45	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:46

Data File: C:\CHEMPC\DATA\033196\77315.D

Name: SSTD160@C S-96-091

Misc: HP6*AATSLA*SSTD160*2uL*MS517

Method: OLMO3_S.M Inst: HP6

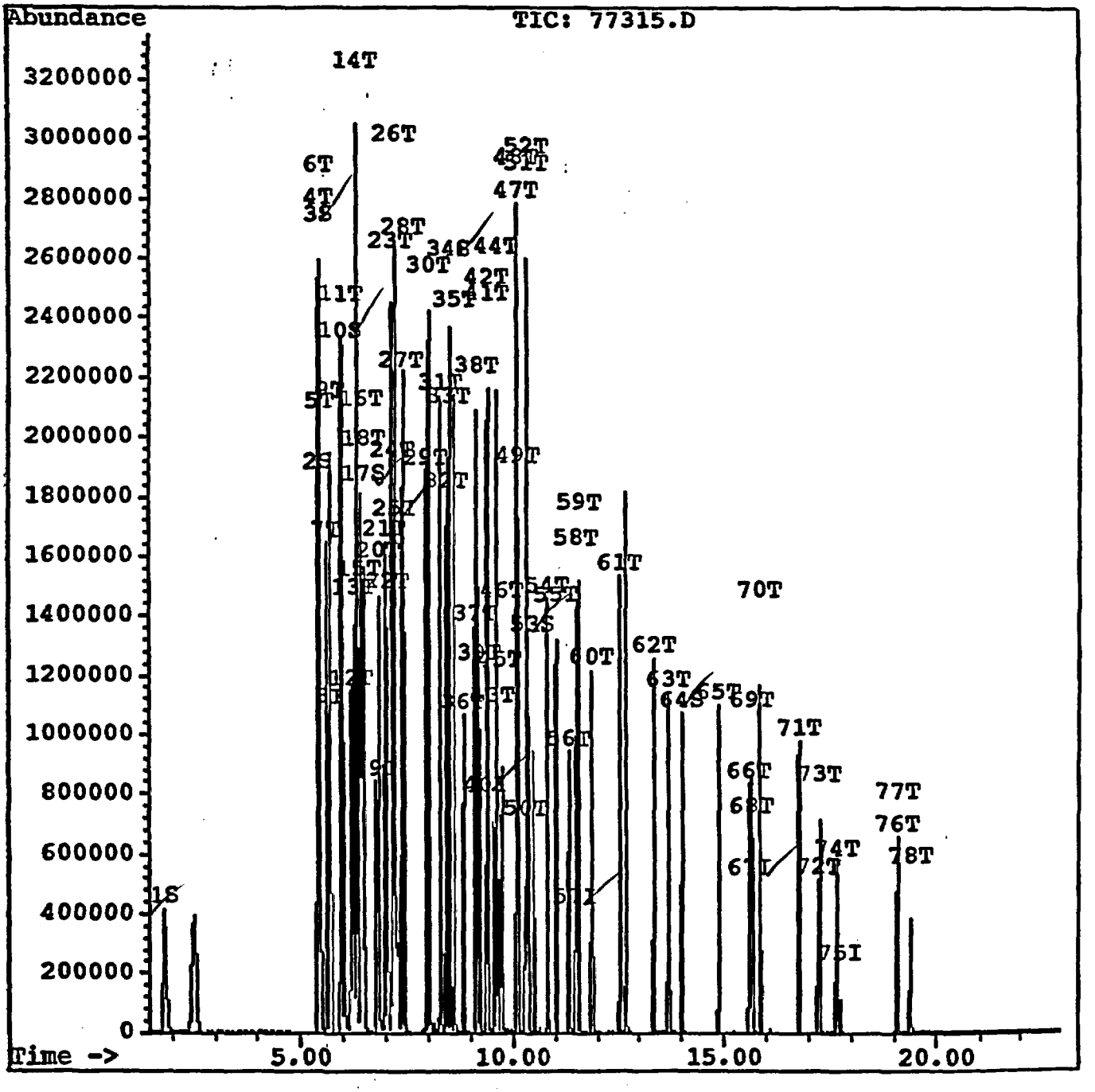
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD 040996

000160



7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK **000161**

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Instrument ID: HP6 Calibration date: 04/04/96 Time: 1750

Lab File ID: 77413 Init. Calib. Date(s): 03/31/96 03/31/96

Init. Calib. Times: 1250 1446

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.462	1.564	0.800	7.0	25.0
bis(2-Chloroethyl)ether	1.274	1.346	0.700	5.7	25.0
2-Chlorophenol	1.352	1.318	0.800	-2.5	25.0
1,3-Dichlorobenzene	1.453	1.430	0.600	-1.6	25.0
1,4-Dichlorobenzene	1.471	1.474	0.500	0.2	25.0
1,2-Dichlorobenzene	1.366	1.334	0.400	-2.3	25.0
2-Methylphenol	1.111	1.017	0.700	-8.5	25.0
2,2'-oxybis(1-Chloropropane)	1.723	1.758		2.0	
4-Methylphenol	1.160	1.060	0.600	-8.6	25.0
N-Nitroso-di-n-propylamine	0.976	0.852	0.500	-12.7	25.0
Hexachloroethane	0.628	0.672	0.300	7.0	25.0
Nitrobenzene	0.451	0.460	0.200	2.0	25.0
Isophorone	0.864	0.737	0.400	-14.7	25.0
2-Nitrophenol	0.246	0.213	0.100	-13.4	25.0
2,4-Dimethylphenol	0.391	0.352	0.200	-10.0	25.0
bis(2-Chloroethoxy)methane	0.534	0.483	0.300	-9.6	25.0
2,4-Dichlorophenol	0.350	0.312	0.200	-10.9	25.0
1,2,4-Trichlorobenzene	0.374	0.362	0.200	-3.2	25.0
Naphthalene	1.129	1.052	0.700	-6.8	25.0
4-Chloroaniline	0.489	0.345		-29.4	
Hexachlorobutadiene	0.219	0.233		6.4	
4-Chloro-3-methylphenol	0.349	0.298	0.200	-14.6	25.0
2-Methylnaphthalene	0.732	0.641	0.400	-12.4	25.0
Hexachlorocyclopentadiene	0.487	0.423		-13.1	
2,4,6-Trichlorophenol	0.444	0.423	0.200	-4.7	25.0
2,4,5-Trichlorophenol	0.468	0.426	0.200	-9.0	25.0
2-Chloronaphthalene	1.286	1.266	0.800	-1.6	25.0
2-Nitroaniline	0.442	0.421		-4.8	
Dimethylphthalate	1.350	1.197		-11.3	
Acenaphthylene	1.886	1.788	1.300	-5.2	25.0
2,6-Dinitrotoluene	0.296	0.259	0.200	-12.5	25.0
3-Nitroaniline	0.278	0.252		-9.4	
Acenaphthene	1.119	1.062	0.800	-5.1	25.0
2,4-Dinitrophenol	0.202	0.114		-43.6	
4-Nitrophenol	0.172	0.139		-19.2	
Dibenzofuran	1.578	1.518	0.800	-3.8	25.0
2,4-Dinitrotoluene	0.373	0.338	0.200	-9.4	25.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

000162

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Instrument ID: HP6 Calibration date: 04/04/96 Time: 1750

Lab File ID: 77413 Init. Calib. Date(s): 03/31/96 03/31/96

Init. Calib. Times: 1250 1446

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.252	1.224		-2.2	
4-Chlorophenyl-phenylether	0.579	0.548	0.400	-5.4	25.0
Fluorene	1.184	1.111	0.900	-6.2	25.0
4-Nitroaniline	0.290	0.228		-21.4	
4,6-Dinitro-2-methylphenol	0.188	0.139		-26.1	
N-Nitrosodiphenylamine (1)	0.600	0.584		-2.7	
4-Bromophenyl-phenylether	0.283	0.291	0.100	2.8	25.0
Hexachlorobenzene	0.304	0.337	0.100	10.9	25.0
Pentachlorophenol	0.180	0.149	0.050	-17.2	25.0
Phenanthrene	1.088	1.130	0.700	3.9	25.0
Anthracene	1.080	1.154	0.700	6.9	25.0
Carbazole	0.895	0.934		4.4	
Di-n-butylphthalate	1.384	1.581		14.2	
Fluoranthene	0.887	1.047	0.600	18.0	25.0
Pyrene	2.067	1.439	0.600	-30.4	25.0
Butylbenzylphthalate	0.937	0.809		-13.7	
3,3'-Dichlorobenzidine	0.310	0.287		-7.4	
Benzo(a)anthracene	1.280	1.184	0.800	-7.5	25.0
Chrysene	1.120	1.208	0.700	7.9	25.0
bis(2-Ethylhexyl)phthalate	1.012	1.080		6.7	
Di-n-octylphthalate	2.012	1.696		-15.7	
Benzo(b)fluoranthene	1.296	1.114	0.700	-14.0	25.0
Benzo(k)fluoranthene	1.182	1.088	0.700	-8.0	25.0
Benzo(a)pyrene	1.059	0.995	0.700	-6.0	25.0
Indeno(1,2,3-cd)pyrene	1.076	1.014	0.500	-5.8	25.0
Dibenz(a,h)anthracene	0.824	0.802	0.400	-2.7	25.0
Benzo(g,h,i)perylene	0.845	0.803	0.500	-5.0	25.0
Nitrobenzene-d5	0.480	0.469	0.200	-2.3	25.0
2-Fluorobiphenyl	1.384	1.400	0.700	1.2	25.0
Terphenyl-d14	1.294	0.938	0.500	-27.5	25.0
Phenol-d5	1.379	1.454	0.800	5.4	25.0
2-Fluorophenol	1.010	0.928	0.600	-8.1	25.0
2,4,6-Tribromophenol	0.137	0.144		5.1	
2-Chlorophenol-d4	1.298	1.227	0.800	-5.5	25.0
1,2-Dichlorobenzene-d4	0.883	0.827	0.400	-6.3	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

CONTINUING CALIBRATION REPORT

000163

Method: OLM03_S.M Protocol: CLP 3/90
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Continuing Calibration File: 77413.D Inst: HP6

PK#		Compound		AvgRRF	CCRRF	%Dev	Min RF	Max % D
8	I	CI30	1,4-Dichlorobenzene-d4	1.000	1.000	0.0		
1	S	CS50	2-Fluorophenol	1.010	0.928	8.1	0.600	25.0
2	S	CS45	Phenol-d5	1.379	1.454	5.4	0.800	25.0
3	S	CS70	2-Chlorophenol-d4	1.298	1.227	5.5	0.800	25.0
4	T	C325	bis(2-Chloroethyl)ether	1.274	1.346	5.7	0.700	25.0
5	T	C315	Phenol	1.462	1.564	6.9	0.800	25.0
6	T	C330	2-Chlorophenol	1.353	1.318	2.5	0.800	25.0
7	T	C335	1,3-Dichlorobenzene	1.453	1.430	1.5	0.600	25.0
9	T	C340	1,4-Dichlorobenzene	1.471	1.474	0.2	0.500	25.0
10	S	CS75	1,2-Dichlorobenzene-d4	0.883	0.827	6.3	0.400	25.0
11	T	C350	1,2-Dichlorobenzene	1.366	1.334	2.4	0.400	25.0
12	T	C360	2,2'-oxybis(1-Chloroprop	1.724	1.758	2.0	0.010	
13	T	C355	2-Methylphenol	1.111	1.017	8.5	0.700	25.0
14	T	C375	Hexachloroethane	0.628	0.672	7.0	0.300	25.0
15	T	C370	N-Nitroso-di-n-propylami	0.976	0.852	12.7	0.500	25.0
16	T	C365	4-Methylphenol	1.160	1.060	8.6	0.600	25.0
25	I	CI40	Naphthalene-d8	1.000	1.000	0.0		
17	S	CS20	Nitrobenzene-d5	0.480	0.469	2.3	0.200	25.0
18	T	C410	Nitrobenzene	0.451	0.460	2.1	0.200	25.0
19	T	C415	Isophorone	0.865	0.737	14.7	0.400	25.0
0	T	C420	2-Nitrophenol	0.246	0.213	13.3	0.100	25.0
21	T	C425	2,4-Dimethylphenol	0.392	0.352	10.0	0.200	25.0
22	T	C435	bis(2-Chloroethoxy)metha	0.534	0.483	9.6	0.300	25.0
23	T	C440	2,4-Dichlorophenol	0.350	0.312	10.9	0.200	25.0
24	T	C445	1,2,4-Trichlorobenzene	0.374	0.362	3.2	0.200	25.0
26	T	C450	Naphthalene	1.129	1.052	6.8	0.700	25.0
27	T	C455	4-Chloroaniline	0.489	0.345	29.4	0.010	
28	T	C460	Hexachlorobutadiene	0.219	0.233	6.5	0.010	
29	T	C465	4-Chloro-3-methylphenol	0.349	0.298	14.7	0.200	25.0
30	T	C470	2-Methylnaphthalene	0.732	0.641	12.5	0.400	25.0
40	I	CI50	Acenaphthene-d10	1.000	1.000	0.0		
31	T	C510	Hexachlorocyclopentadien	0.487	0.423	13.1	0.010	
32	T	C515	2,4,6-Trichlorophenol	0.444	0.423	4.6	0.200	25.0
33	T	C520	2,4,5-Trichlorophenol	0.461	0.426	7.7	0.200	25.0
34	S	CS25	2-Fluorobiphenyl	1.384	1.400	1.2	0.700	25.0
35	T	C525	2-Chloronaphthalene	1.286	1.266	1.5	0.800	25.0
36	T	C530	2-Nitroaniline	0.443	0.421	5.1	0.010	
37	T	C535	Dimethylphthalate	1.350	1.197	11.3	0.010	
38	T	C540	Acenaphthylene	1.886	1.788	5.2	0.900	25.0
39	T	C543	2,6-Dinitrotoluene	0.296	0.259	12.2	0.200	25.0
41	T	C545	3-Nitroaniline	0.276	0.252	8.5	0.010	
42	T	C550	Acenaphthene	1.120	1.062	5.2	0.900	25.0
43	T	C555	2,4-Dinitrophenol	0.185	0.114	38.3	0.010	
44	T	C565	Dibenzofuran	1.578	1.518	3.8	0.800	25.0
5	T	C560	4-Nitrophenol	0.162	0.139	13.8	0.010	
6	T	C570	2,4-Dinitrotoluene	0.373	0.338	9.3	0.200	25.0

(*) = Out of Range (**) = % Dev fails CLP maximum acceptance criteria

CONTINUING CALIBRATION REPORT

Method: OLMO3_S.M Protocol: CLP 3/90
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Continuing Calibration File: 77413.D Inst: HP6 000164

RK#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
47	T	C580 Diethylphthalate	1.252	1.224	2.2	0.010	
48	T	C590 Fluorene	1.184	1.111	6.2	0.900	25.0
49	T	C585 4-Chlorophenyl-phenyleth	0.579	0.548	5.3	0.400	25.0
50	T	C595 4-Nitroaniline	0.281	0.228	18.7	0.010	
57	I	CI60 Phenanthrene-d10	1.000	1.000	0.0		
51	T	C615 N-Nitrosodiphenylamine	0.600	0.584	2.5	0.010	
52	T	C610 4,6-Dinitro-2-methylphen	0.177	0.139	21.5	0.010	
53	S	CS55 2,4,6-Tribromophenol	0.137	0.144	5.5	0.010	
54	T	C625 4-Bromophenyl-phenylethe	0.283	0.291	2.6	0.100	25.0
55	T	C630 Hexachlorobenzene	0.304	0.337	11.0	0.100	25.0
56	T	C635 Pentachlorophenol	0.170	0.149	12.4	0.050	25.0
58	T	C640 Phenanthrene	1.088	1.130	3.9	0.700	25.0
59	T	C645 Anthracene	1.080	1.154	6.8	0.700	25.0
60	T	C648 Carbazole	0.895	0.934	4.4	0.010	
61	T	C650 Di-n-butylphthalate	1.384	1.581	14.2	0.010	
62	T	C655 Fluoranthene	0.888	1.047	18.0	0.600	25.0
67	I	CI70 Chrysene-d12	1.000	1.000	0.0		
63	T	C715 Pyrene	2.067	1.439	30.4*	0.600	25.0
64	S	CS30 Terphenyl-d14	1.294	0.938	27.6*	0.500	25.0
65	T	C720 Butylbenzylphthalate	0.937	0.809	13.6	0.010	
6	T	C730 Benzo(a)anthracene	1.280	1.184	7.5	0.800	25.0
68	T	C725 3,3'-Dichlorobenzidine	0.310	0.287	7.5	0.010	
69	T	C740 Chrysene	1.120	1.208	7.9	0.700	25.0
70	T	C745 bis(2-Ethylhexyl)phthala	1.012	1.080	6.8	0.010	
75	I	CI75 Perylene-d12	1.000	1.000	0.0		
71	T	C760 Di-n-octylphthalate	2.012	1.696	15.7	0.010	
72	T	C765 Benzo(b)fluoranthene	1.296	1.114	14.1	0.700	25.0
73	T	C770 Benzo(k)fluoranthene	1.182	1.088	8.0	0.700	25.0
74	T	C775 Benzo(a)pyrene	1.059	0.994	6.1	0.700	25.0
76	T	C780 Indeno(1,2,3-cd)pyrene	1.076	1.014	5.8	0.500	25.0
77	T	C785 Dibenz(a,h)anthracene	0.824	0.802	2.7	0.400	25.0
78	T	C790 Benzo(g,h,i)perylene	0.845	0.803	5.0	0.500	25.0

(*) = QC Criteria Failed (**) = > 40 % Dev., Reanalyze Standard

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 17:50

Data File: C:\CHEMPC\DATA\040496\77413.D

Name: SSTD050 6Q S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

Method: OLMO3_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 15:53:44 1996

Quantitated using Multiple Level Calibration

RD 04/19/96 000165

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	67676	40.00	ug/mL	-0.05
25) CI40 Naphthalene-d8	7.16	136	198547	40.00	ug/mL	-0.05
40) CI50 Acenaphthene-d10	9.30	164	92655	40.00	ug/mL	-0.06
57) CI60 Phenanthrene-d10	11.42	188	108739	40.00	ug/mL	-0.06
67) CI70 Chrysene-d12	15.58	240	82765	40.00	ug/mL	-0.06
75) CI75 Perylene-d12	17.69	264	91714	40.00	ug/mL	-0.05
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.73	112	78515	45.95	ug/mL	30.63%
2) CS70 2-Chlorophenol-d4	5.34	132	103773	47.25	ug/mL	31.50%
4) CS45 Phenol-d5	5.34	99	122996	52.71	ug/mL	35.14%
10) CS75 1,2-Dichlorobenzene-d	5.89	152	69999	46.84	ug/mL	46.84%
17) CS20 Nitrobenzene-d5	6.41	82	116329	48.86	ug/mL	48.86%
34) CS25 2-Fluorobiphenyl	8.45	172	162181	50.59	ug/mL	50.59%
53) CS55 2,4,6-Tribromophenol	10.44	330	19583	52.74	ug/mL	35.16%
64) CS30 Terphenyl-d14	13.96	244	96999	36.22	ug/mL	36.22%
Target Compounds						ISTD#
3) C325 bis(2-Chloroethyl)eth	5.37	93	113894	52.83	ug/mL	001#
5) C330 2-Chlorophenol	5.37	128	111510	48.73	ug/mL	001
6) C315 Phenol	5.37	94	132297	53.47	ug/mL	001#
7) C335 1,3-Dichlorobenzene	5.56	146	121010	49.23	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.65	146	124731	50.11	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.91	146	112821	48.80	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.13	45	148722	51.00	ug/mL	001
13) C355 2-Methylphenol	6.18	108	86037	45.75	ug/mL	001
14) C375 Hexachloroethane	6.28	117	56867	53.48	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.31	70	72068	43.65	ug/mL	001
16) C365 4-Methylphenol	6.35	108	89688	45.70	ug/mL	001
18) C410 Nitrobenzene	6.42	77	114210	51.07	ug/mL	002
19) C415 Isophorone	6.69	82	182935	42.63	ug/mL	002
20) C420 2-Nitrophenol	6.79	139	52976	43.37	ug/mL	002
21) C425 2,4-Dimethylphenol	6.90	107	87418	44.98	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	6.98	93	119859	45.19	ug/mL	002
23) C440 2,4-Dichlorophenol	7.06	162	77317	44.54	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.13	180	89788	48.39	ug/mL	002
26) C450 Naphthalene	7.18	128	261025	46.58	ug/mL	002
27) C455 4-Chloroaniline	7.32	127	85573	35.28	ug/mL	002
28) C460 Hexachlorobutadiene	7.40	225	57907	53.27	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.90	107	73938	42.64	ug/mL	002
30) C470 2-Methylnaphthalene	7.98	142	159020	43.75	ug/mL	002
31) C510 Hexachlorocyclopentad	8.24	237	49003	43.45	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.37	196	49013	47.68	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.43	196	49353	46.17	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

RD
041996

000166

Operator ID: AK Date Acquired: 4 Apr 96 17:50
Data File: C:\CHEMPC\DATA\040496\77413.D
Name: SSTD050 6Q S-96-090
Misc: HP6*AATSLA*SSTD050*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 15:53:44 1996
Quantitated using Multiple Level Calibration

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.56	162	146607	49.23	ug/mL	003
36)	C530 2-Nitroaniline	8.77	65	48726	47.47	ug/mL	003#
37)	C535 Dimethylphthalate	9.05	163	138647	44.34	ug/mL	003
38)	C540 Acenaphthylene	9.10	152	207031	47.40	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.14	165	30044	43.88	ug/mL	003
41)	C545 3-Nitroaniline	9.33	138	29225	45.74	ug/mL	003
42)	C550 Acenaphthene	9.34	153	122958	47.41	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.50	184	13253	30.85	ug/mL	003#
44)	C565 Dibenzofuran	9.57	168	175757	48.09	ug/mL	003
45)	C560 4-Nitrophenol	9.63	109	16124	43.09	ug/mL	003
46)	C570 2,4-Dinitrotoluene	9.68	165	39138	45.34	ug/mL	003#
47)	C580 Diethylphthalate	10.02	149	141706	48.88	ug/mL	003
48)	C590 Fluorene	10.05	166	128635	46.92	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.07	204	63517	47.33	ug/mL	003
50)	C595 4-Nitroaniline	10.20	138	26431	40.64	ug/mL	003
51)	C615 N-Nitrosodiphenylamin	10.26	169	79436	48.73	ug/mL	004
52)	C610 4,6-Dinitro-2-methylp	10.26	198	18930	39.23	ug/mL	004#
54)	C625 4-Bromophenyl-phenyle	10.77	248	39525	51.32	ug/mL	004
55)	C630 Hexachlorobenzene	10.97	284	45811	55.52	ug/mL	004
56)	C635 Pentachlorophenol	11.27	266	20292	43.81	ug/mL	004
58)	C640 Phenanthrene	11.45	178	153619	51.94	ug/mL	004
59)	C645 Anthracene	11.52	178	156873	53.42	ug/mL	004
60)	C648 Carbazole	11.81	167	126964	52.18	ug/mL	004
61)	C650 Di-n-butylphthalate	12.49	149	214865	57.10	ug/mL	004
62)	C655 Fluoranthene	13.30	202	142312	58.98	ug/mL	004
63)	C715 Pyrene	13.64	202	148906	34.82	ug/mL	005
65)	C720 Butylbenzylphthalate	14.84	149	83734	43.21	ug/mL	005
66)	C730 Benzo(a)anthracene	15.55	228	122473	46.23	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.60	252	29649	46.24	ug/mL	005
69)	C740 Chrysene	15.61	228	124990	53.96	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.81	149	111764	53.38	ug/mL	005
71)	C760 Di-n-octylphthalate	16.73	149	194450	42.15	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.17	252	127658	42.95	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.20	252	124691	46.02	ug/mL	006
74)	C775 Benzo(a)pyrene	17.62	252	114012	46.96	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.02	276	116236	47.10	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.05	278	91891	48.65	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.34	276	92054	47.52	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 17:50

Data File: C:\CHEMPC\DATA\040496\77413.D

Name: SSTD050 6Q S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

Method: OLMO3_S.M Inst: HP6

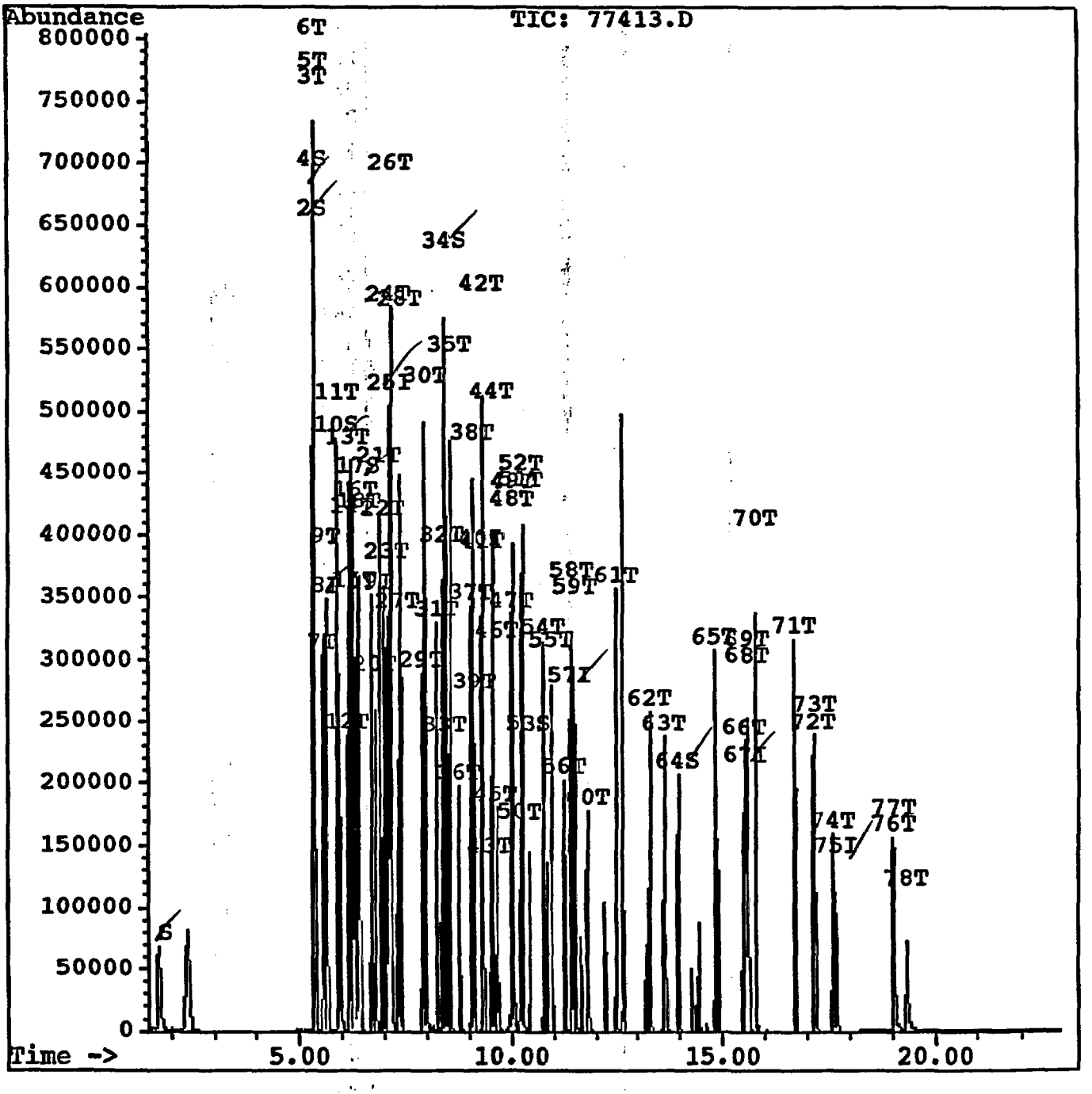
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 15:53:44 1996

Quantitated using Multiple Level Calibration

RD

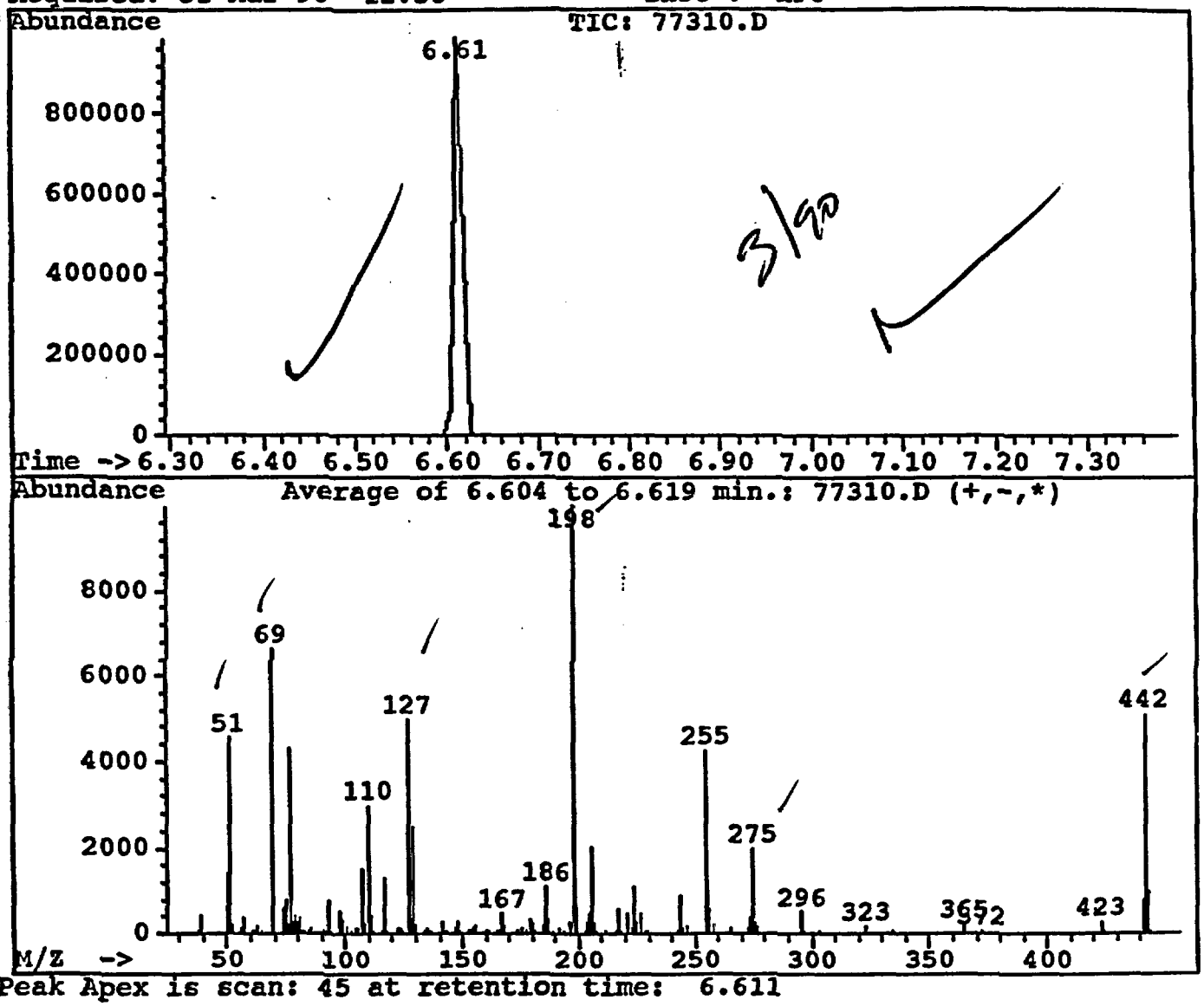
04/1996 000167



DFTPP Results

000168

File : C:\CHEMPC\DATA\033196\77310.D Analyst : AK
Acquired: 31 Mar 96 12:38 Inst : HP6



Peak Apex is scan: 45 at retention time: 6.611

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
51	198	30.00	80.00	45.46	45.46	PASS
68	69	0.00	1.99	0.00	0.00	PASS
69	198	0.00	100.00	66.25	66.25	PASS
70	69	0.00	1.99	0.00	0.00	PASS
127	198	25.00	75.00	49.85	49.85	PASS
197	198	0.00	0.99	0.00	0.00	PASS
198	198	100.00	100.00	100.00	100.00	PASS
199	198	5.00	9.00	6.42	6.42	PASS
275	198	10.00	30.00	19.72	19.72	PASS
365	198	0.75	100.00	2.10	2.10	PASS
441	443	0.60	99.00	7.60	75.62	PASS
442	198	40.00	110.00	51.07	51.07	PASS
443	442	15.00	24.00	10.05	19.68	PASS

C:\CHEMPC\DATA\033196\77310.D Sun Mar 31 12:46:24 1996

000169

File: C:\CHEMPC\DATA\033196\77310.D
Operator: AK
Date Acquired: 31 Mar 96 12:38 pm
Method File: DFTPPCLP.M
Sample Name: DFTPP S-96-308
Misc Info: HP6*AATSLA*DFTPP*2uL*MS517
Vial Number : 1

Average of 6.604 to 6.619 min.: 77310.D
DFTPP S-96-308
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.05	70	64.95	66	83.00	65	104.05	108
38.95	405	68.95	6625	85.00	51	104.95	99
50.10	1407	74.05	556	86.00	97	107.05	1500
51.00	4546	74.95	797	91.00	70	107.95	217
52.00	214	76.05	206	92.00	81	109.95	2977
56.00	131	77.05	4313	93.00	792	110.95	415
57.00	379	78.10	249	93.90	42	111.95	42
61.05	49	79.00	434	98.05	544	116.00	84
62.05	59	80.00	280	98.95	296	117.00	1313
63.05	148	81.00	359	100.95	169	118.00	79
64.05	33	82.00	83	102.95	51	122.00	88

Average of 6.604 to 6.619 min.: 77310.D
DFTPP S-96-308
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.00	112	141.95	67	164.95	72	185.05	149
124.00	65	142.95	46	166.05	43	186.00	1092
127.00	4985	147.00	96	167.05	456	187.00	307
128.00	351	148.00	286	167.95	168	188.90	52
129.00	2474	149.00	44	173.05	34	191.95	109
129.95	200	152.90	50	173.95	78	193.00	60
133.95	45	154.00	52	175.05	94	195.95	262
135.05	121	155.00	130	176.95	49	197.90	10000
136.05	46	156.00	170	178.95	337	198.95	642
136.95	65	160.00	56	179.95	212	202.95	44
140.95	251	161.00	75	180.85	71	204.05	285

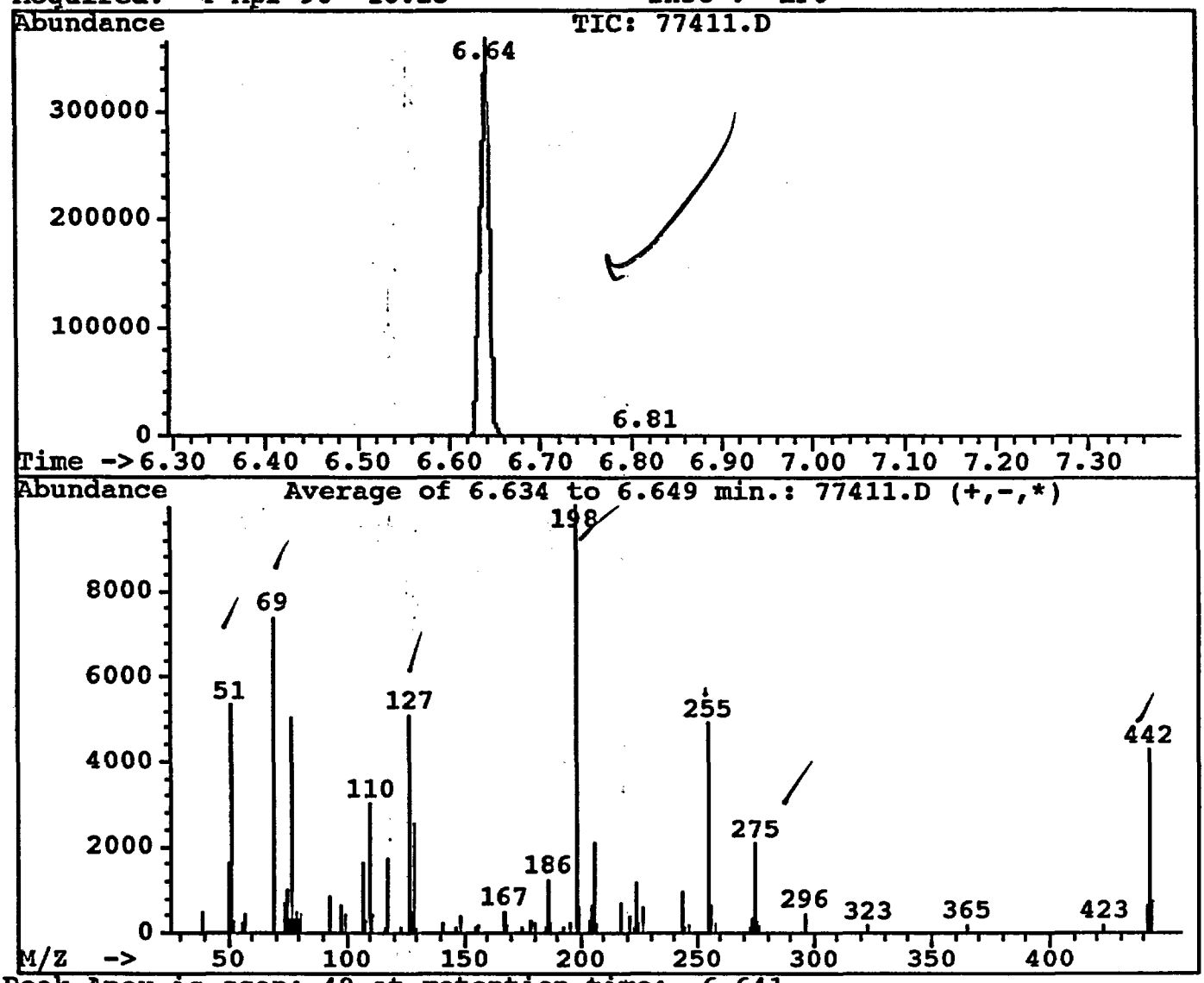
Average of 6.604 to 6.619 min.: 77310.D
DFTPP S-96-308
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.05	486	225.00	242	264.90	97	351.95	32
206.05	2006	227.00	485	272.95	139	364.90	210
207.00	264	227.90	51	273.95	367	372.05	54
207.95	48	228.90	62	274.95	1972	422.95	272
210.90	83	243.05	43	275.95	265	424.00	40
215.95	41	243.95	911	276.95	153	441.05	760
216.95	583	245.00	124	295.95	502	442.05	5107
217.90	44	245.95	157	296.90	36	443.05	1005
221.00	483	255.00	4256	302.95	37	443.95	62
223.00	130	256.00	590	323.00	164		
224.00	1086	257.90	235	333.90	57		

DFTPP Results

000170

File : C:\CHEMPC\DATA\040496\77411.D Analyst : AK
Acquired: 4 Apr 96 16:25 Inst : HP6



Peak Apex is scan: 49 at retention time: 6.641

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
51	198	30.00	80.00	53.23	53.23	PASS
68	69	0.00	1.99	0.00	0.00	PASS
69	198	0.00	100.00	73.84	73.84	PASS
70	69	0.00	1.99	0.00	0.00	PASS
127	198	25.00	75.00	50.94	50.94	PASS
197	198	0.00	0.99	0.00	0.00	PASS
198	198	100.00	100.00	100.00	100.00	PASS
199	198	5.00	9.00	5.99	5.99	PASS
275	198	10.00	30.00	20.70	20.70	PASS
365	198	0.75	100.00	1.72	1.72	PASS
441	443	0.60	99.00	6.15	81.78	PASS
442	198	40.00	110.00	42.97	42.97	PASS
443	442	15.00	24.00	7.52	17.50	PASS

C:\CHEMPC\DATA\040496\77411.D Fri Apr 05 08:14:47 1996

File: C:\CHEMPC\DATA\040496\77411.D
Operator: AK
Date Acquired: 4 Apr 96 ~~4:25~~ pm 1625 1040
Method File: DFTPPCLP.M
Sample Name: DFTPP S-96-308
Misc Info: HP6*AATSLA*DFTPP*2uL*MS517
Vial Number : 1

000171

Average of 6.634 to 6.649 min.: 77411.D
DFTPP S-96-308
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.95	491	78.00	339	116.00	98	156.00	145
50.00	1601	79.00	480	117.00	1723	167.00	494
51.00	5323	79.95	339	123.00	96	167.95	160
51.95	281	80.90	408	127.00	5094	174.95	112
55.90	226	92.90	860	128.00	459	178.85	268
56.90	416	97.95	635	128.90	2571	179.95	189
68.95	7384	98.95	419	129.95	133	185.00	125
73.95	667	106.95	1615	140.95	218	186.00	1220
74.95	988	107.90	269	147.00	127	187.00	224
76.00	309	109.95	3016	147.90	344	193.00	108
76.95	5029	110.95	431	155.00	96	195.90	200

Average of 6.634 to 6.649 min.: 77411.D
DFTPP S-96-308
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
197.90	10000	226.90	570	276.85	146		
198.90	599	243.95	923	295.90	428		
203.95	246	244.95	113	323.00	155		
204.95	611	245.85	166	364.90	172		
205.95	2105	255.00	4911	422.95	175		
206.95	205	255.90	633	441.05	615		
216.90	679	257.90	216	442.05	4297		
220.90	351	272.95	139	442.95	752		
222.90	114	273.95	298				
224.00	1171	274.95	2070				
224.90	210	275.95	252				

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000172 EPA SAMPLE NO.

SBLK6Q

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: SBLK6Q

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77414

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000173

EPA SAMPLE NO.

SBLK6Q

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: SBLK6Q

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77414

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	3	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000174

SBLK6Q

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: SBLK6Q

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77414

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.08	11	J

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 18:22

000175

Data File: C:\CHEMPC\DATA\040496\77414.D

Name: SBLK6Q EXT032896

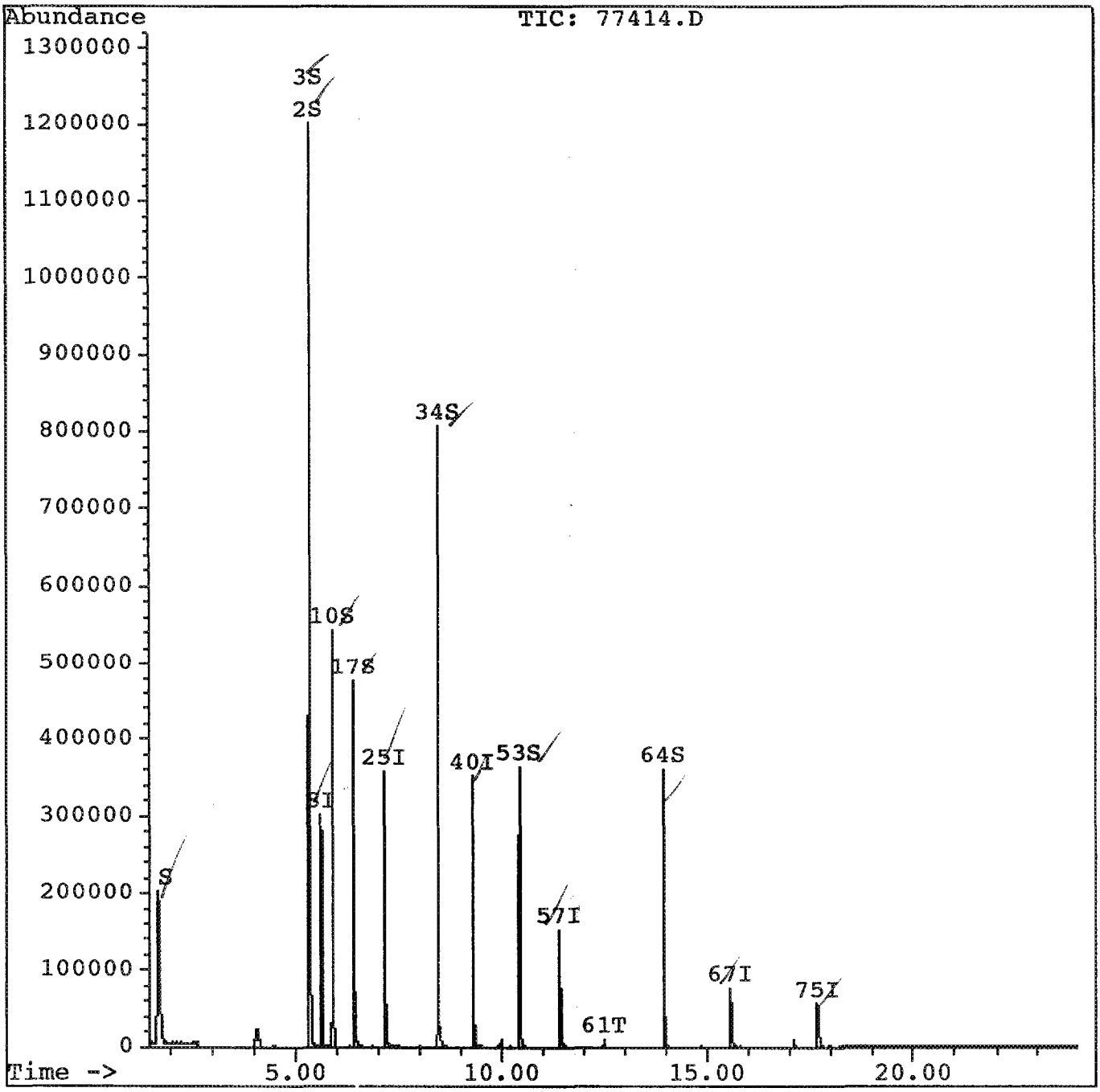
Misc: HP6*AATSLA*MB-D*1000ml/1.0ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration

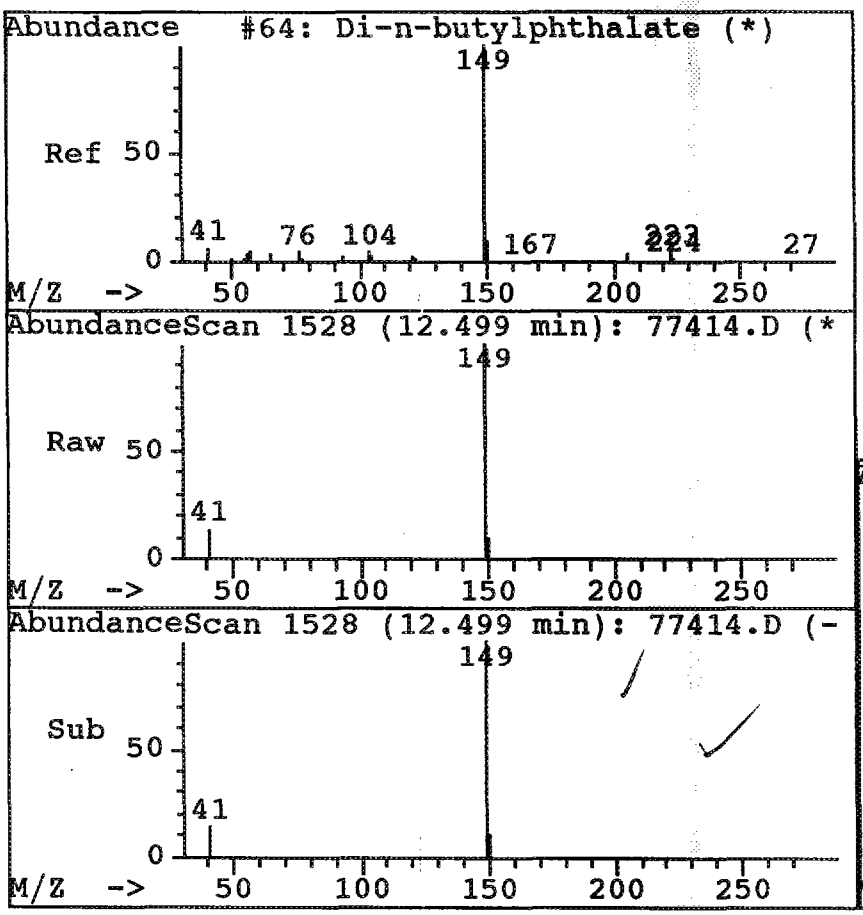


QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 18:22 000176
Data File: C:\CHEMPC\DATA\040496\77414.D
Name: SBLK6Q EXT032896
Misc: HP6*AATSLA*MB-D*1000ml/1.0ml/2uLL*MS517
Method: OLM03_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.62	152	76838	40.00	ug/mL	-0.00
25) CI40 Naphthalene-d8	7.16	136	246510	40.00	ug/mL	0.00
40) CI50 Acenaphthene-d10	9.30	164	113318	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.41	188	120030	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.58	240	74379	40.00	ug/mL	0.01
75) CI75 Perylene-d12	17.70	264	70361	40.00	ug/mL	0.00
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.71	112	221441	124.20	ug/mL	82.80%
2) CS45 Phenol-d5	5.34	99	323588	115.86	ug/mL	77.24%
3) CS70 2-Chlorophenol-d4	5.34	132	297314	126.17	ug/mL	84.12%
10) CS75 1,2-Dichlorobenzene-d	5.89	152	108855	68.48	ug/mL	68.48%
17) CS20 Nitrobenzene-d5	6.40	82	214875	74.39	ug/mL	74.39%
34) CS25 2-Fluorobiphenyl	8.45	172	306100	77.16	ug/mL	77.16%
53) CS55 2,4,6-Tribromophenol	10.44	330	62537	144.65	ug/mL	96.43%
64) CS30 Terphenyl-d14	13.96	244	182201	104.51	ug/mL	104.51%
Target Compounds						ISTD#
61) C650 Di-n-butylphthalate	12.50	149	12615	2.66	ug/mL	004#

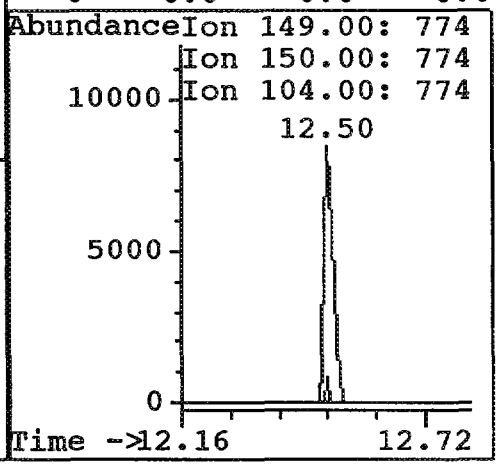
(#) = qualifier out of range



#61 Inst: HP6
C650 Di-n-butylphthalate
Concen: 2.66 ug/mL
RT: 12.50 min Scan# 1528
Delta R.T. 0.01 min
Lab File: 77414.D
Acq: 4 Apr 96 18:22
SBLK6Q

Tgt Ion: 149 Area: 12615

Ion	Ratio	Lower	Upper
149	100		
150	0.0	0.0	28.6
104	0.0	0.0	24.0
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 18:22

000178

Data File: C:\CHEMPC\DATA\040496\77414.D

Name: SBLK6Q EXT032896

Misc: HP6*AATSLA*MB-D*1000ml/1.0ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

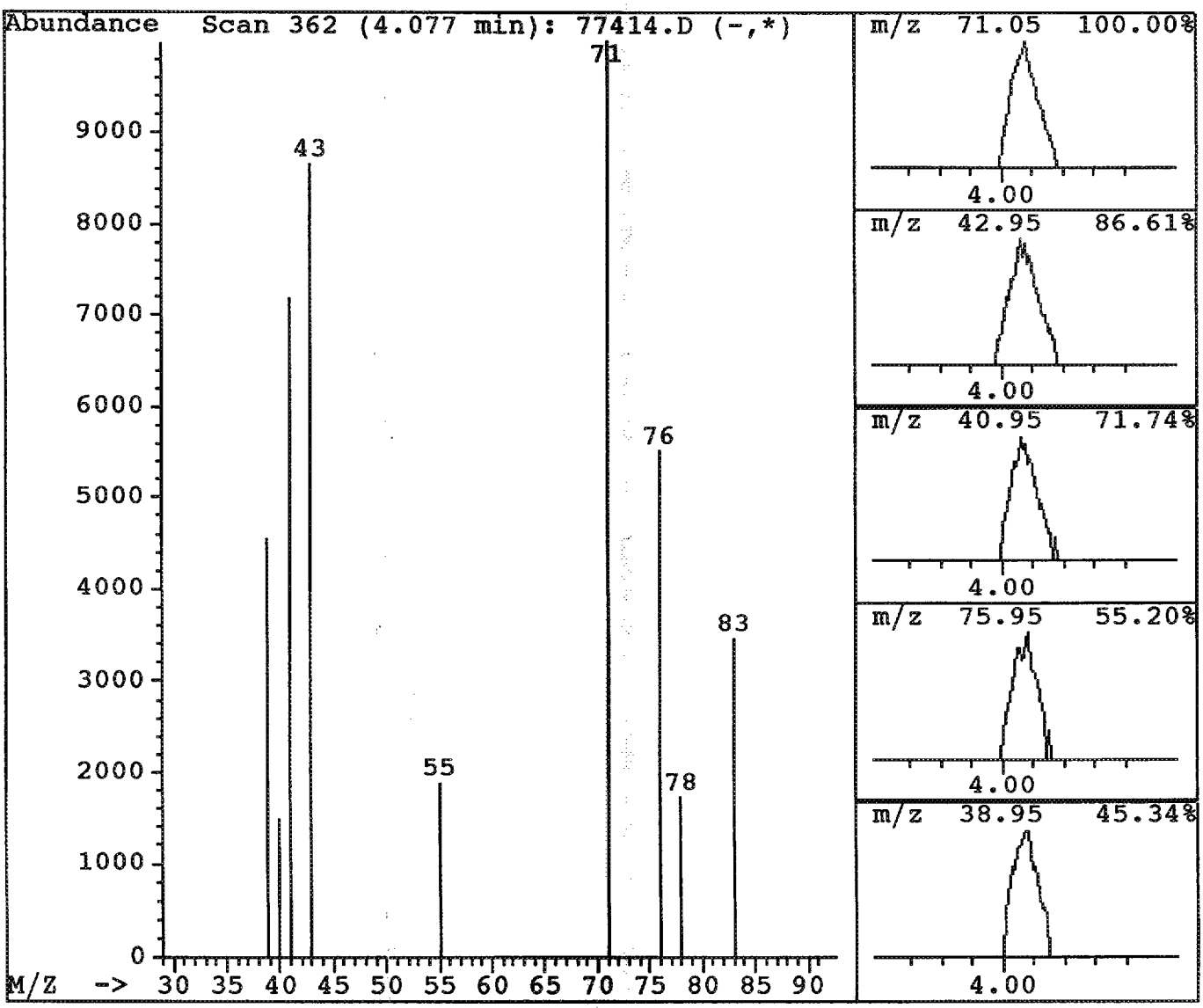
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc		Area	Relative to ISTD	ISTD Area
4.08	10.92	ug/mL	133620	CI30 1,4-Dichlorobenzene-	489500

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000179

EPA SAMPLE NO.

FER43MS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541002MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77416

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	98	E
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	110	E
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	69	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	78	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	75	
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	110	E
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	82	E

RD 041996

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000180 EPA SAMPLE NO.

FER43MS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541002MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77416

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	130	E
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	80	
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	180	E
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	90	E
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

RD 041996

(1) - Cannot be separated from Diphenylamine

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 19:22

000181

Data File: C:\CHEMPC\DATA\040496\77416.D

Name: FER43MS EXT032896

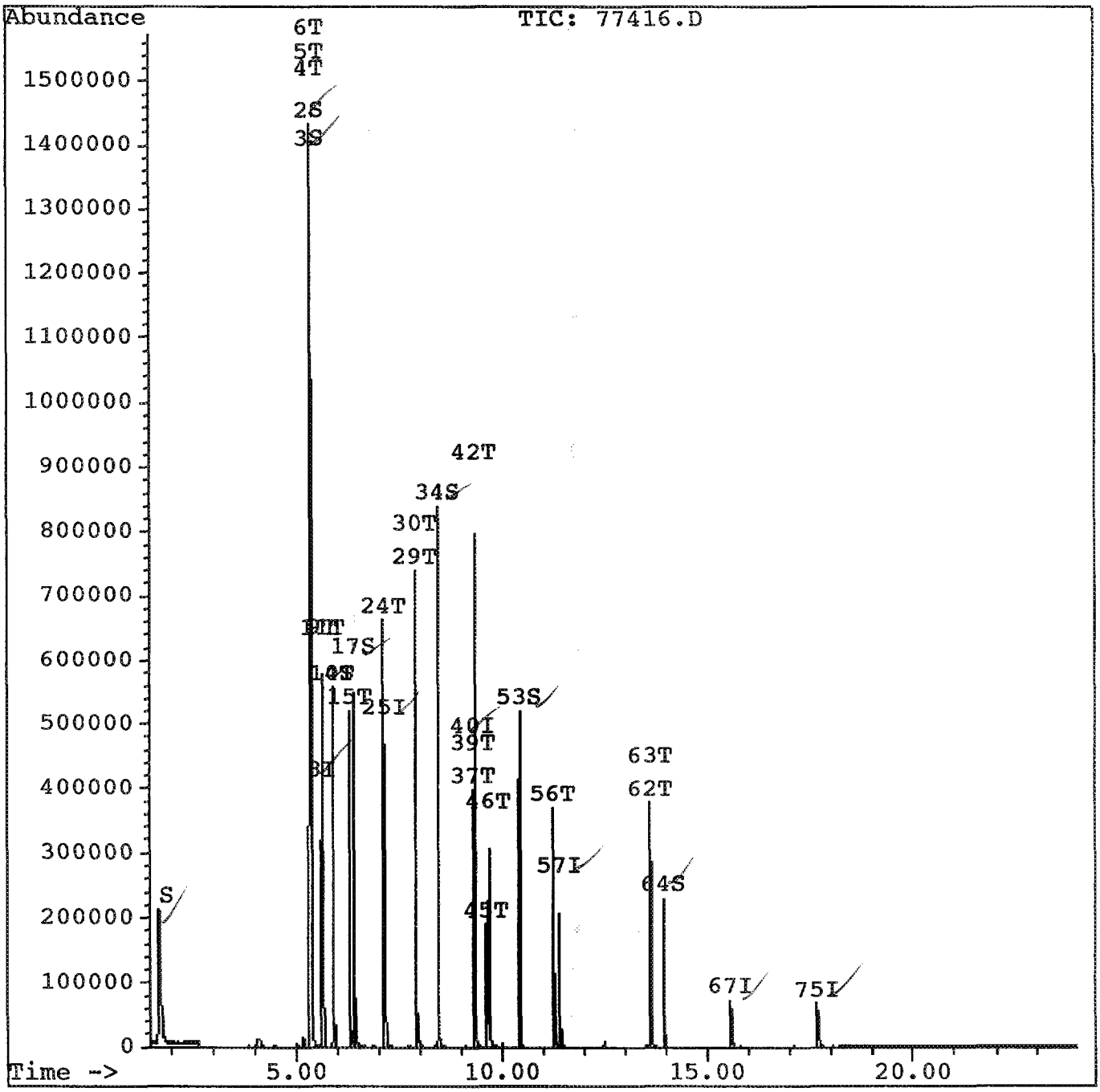
Misc: HP6*USEPA*15410.02MS*1000ml/1.0ml/2uLL*MS517

Method: OLMO3_2.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:29:33 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 19:22

000182

Data File: C:\CHEMPC\DATA\040496\77416.D

Name: FER43MS EXT032896

Misc: HP6*USEPA*15410.02MS*1000ml/1.0ml/2uLL*MS517

Method: OLMO3_2.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:29:33 1996

Quantitated using Single Level Calibration

Internal Standards

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8)	CI30 1,4-Dichlorobenzene-d	5.63	152	77468	40.00	ug/mL	0.00
25)	CI40 Naphthalene-d8	7.15	136	225735	40.00	ug/mL	-0.00
40)	CI50 Acenaphthene-d10	9.30	164	103146	40.00	ug/mL	0.00
57)	CI60 Phenanthrene-d10	11.41	188	106666	40.00	ug/mL	-0.00
67)	CI70 Chrysene-d12	15.59	240	69064	40.00	ug/mL	0.01
75)	CI75 Perylene-d12	17.70	264	70854	40.00	ug/mL	0.00

System Monitoring Compounds

							%Recovery
1)	CS50 2-Fluorophenol	1.72	112	235173	130.83	ug/mL	87.22%
2)	CS45 Phenol-d5	5.35	99	326853	116.08	ug/mL	77.39%
3)	CS70 2-Chlorophenol-d4	5.34	132	309873	130.43	ug/mL	86.96%
10)	CS75 1,2-Dichlorobenzene-d	5.90	152	118728	74.09	ug/mL	74.09%
17)	CS20 Nitrobenzene-d5	6.41	82	209919	79.36	ug/mL	79.36%
34)	CS25 2-Fluorobiphenyl	8.45	172	304705	84.39	ug/mL	84.39%
53)	CS55 2,4,6-Tribromophenol	10.43	330	64943	169.03	ug/mL	112.69%
64)	CS30 Terphenyl-d14	13.96	244	112351	69.40	ug/mL	69.40%

Target Compounds

							ISTD#
4)	C325 bis(2-Chloroethyl)eth	5.37	93	13086	5.02	ug/mL	001#
5)	C315 Phenol	5.37	94	295639	97.61	ug/mL	001#
6)	C330 2-Chlorophenol	5.37	128	284543	111.46	ug/mL	001
9)	C340 1,4-Dichlorobenzene	5.65	146	196911	68.96	ug/mL	001
11)	C350 1,2-Dichlorobenzene	5.65	146	196885	76.23	ug/mL	001
14)	C375 Hexachloroethane	5.90	117	25002	19.20	ug/mL	001#
15)	C370 N-Nitroso-di-n-propyl	6.30	70	128532	77.90	ug/mL	001
24)	C445 1,2,4-Trichlorobenzen	7.12	180	153749	75.31	ug/mL	002
29)	C465 4-Chloro-3-methylphen	7.89	107	188341	112.02	ug/mL	002
30)	C470 2-Methylnaphthalene	7.90	142	153554	42.47	ug/mL	002#
37)	C535 Dimethylphthalate	9.30	163	14735	4.77	ug/mL	003#
39)	C543 2,6-Dinitrotoluene	9.30	165	12755	19.07	ug/mL	003#
42)	C550 Acenaphthene	9.35	153	223842	81.77	ug/mL	003
45)	C560 4-Nitrophenol	9.62	109	46531	129.61	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.69	165	69394	79.63	ug/mL	003#
56)	C635 Pentachlorophenol	11.27	266	70602	177.35	ug/mL	004
62)	C655 Fluoranthene	13.63	202	223526	80.06	ug/mL	004
63)	C715 Pyrene	13.63	202	223847	90.07	ug/mL	005

(#) = qualifier out of range

1B **000183** EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FER43MSD

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541003MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77417

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	100	E
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	120	E
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	72	
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	80	E
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	81	E
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	130	E
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	88	E

RD 041996

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000184 EPA SAMPLE NO.

FER43MSD

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 1541003MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 77417

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/28/96

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	150	E,
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	90	E.
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	190	E.
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	98	E.
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

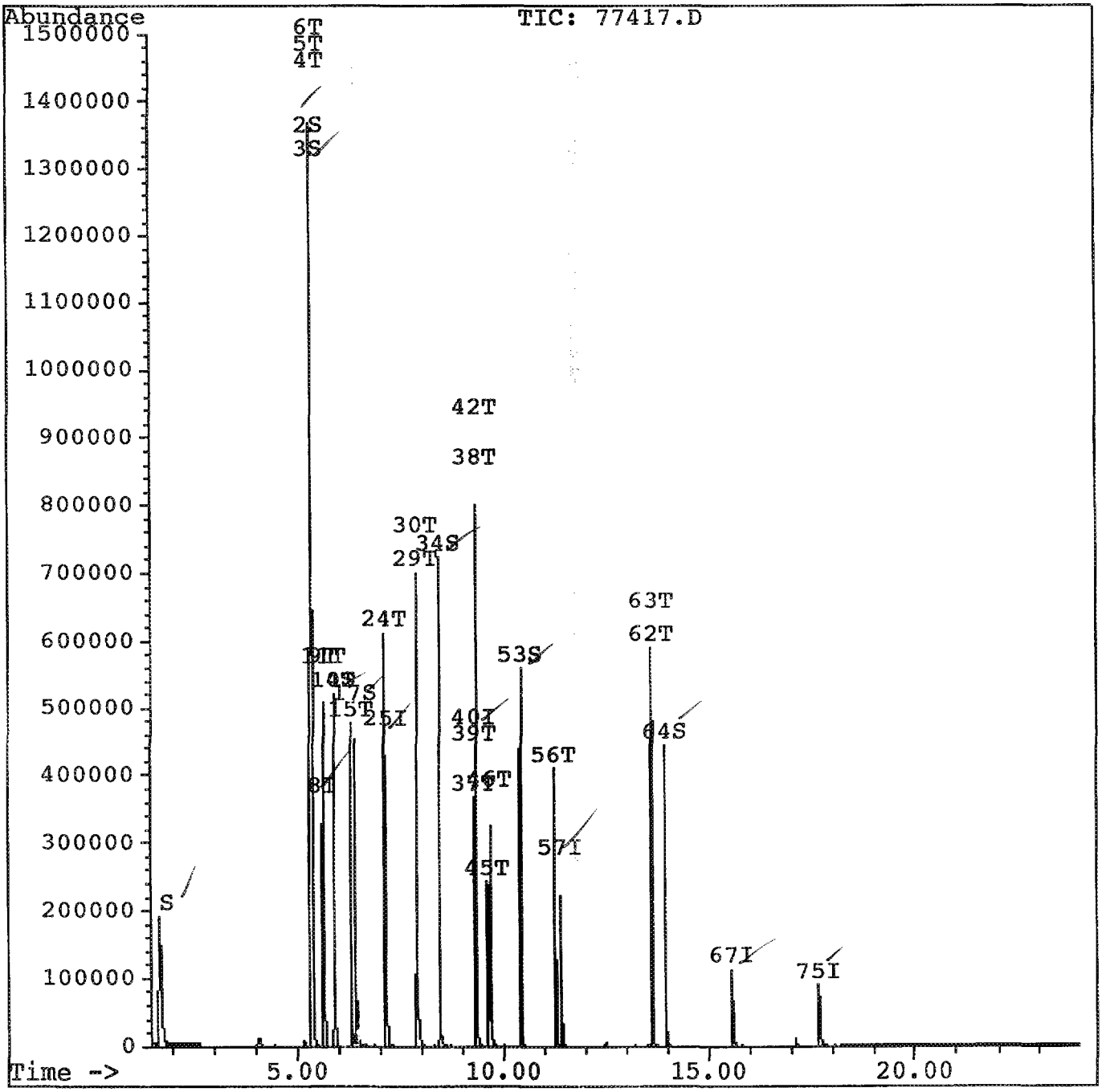
RD 041996

(1) - Cannot be separated from Diphenylamine

QUANT REPORT

000185

Operator ID: AK Date Acquired: 4 Apr 96 19:52
Data File: C:\CHEMPC\DATA\040496\77417.D
Name: FER43MSD EXT032896
Misc: HP6*USEPA*15410.03MSD*1000ml/1.0ml/2uLL*MS517
Method: OLMO3_2.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:29:33 1996
Quantitated using Single Level Calibration



QUANT REPORT

000186

Operator ID: AK Date Acquired: 4 Apr 96 19:52
Data File: C:\CHEMPC\DATA\040496\77417.D
Name: FER43MSD EXT032896
Misc: HP6*USEPA*15410.03MSD*1000ml/1.0ml/2uLL*MS517
Method: OLMO3_2.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:29:33 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.62	152	70860	40.00	ug/mL	-0.01
25) CI40 Naphthalene-d8	7.15	136	199618	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.30	164	97920	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.41	188	110856	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.58	240	92592	40.00	ug/mL	0.00
75) CI75 Perylene-d12	17.70	264	91673	40.00	ug/mL	0.00
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.70	112	212966	129.53	ug/mL	86.35%
2) CS45 Phenol-d5	5.34	99	312926	121.50	ug/mL	81.00%
3) CS70 2-Chlorophenol-d4	5.34	132	288201	132.62	ug/mL	88.42%
10) CS75 1,2-Dichlorobenzene-d	5.89	152	107323	73.22	ug/mL	73.22%
17) CS20 Nitrobenzene-d5	6.41	82	194665	83.22	ug/mL	83.22%
34) CS25 2-Fluorobiphenyl	8.45	172	280899	81.94	ug/mL	81.94%
53) CS55 2,4,6-Tribromophenol	10.43	330	68772	172.23	ug/mL	114.82%
64) CS30 Terphenyl-d14	13.96	244	194627	89.68	ug/mL	89.68%
Target Compounds						ISTD#
4) C325 bis(2-Chloroethyl)eth	5.37	93	12375	5.19	ug/mL	001#
5) C315 Phenol	5.37	94	286345	103.36	ug/mL	001#
6) C330 2-Chlorophenol	5.37	128	271017	116.06	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.65	146	187722	71.87	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.65	146	187722	79.46	ug/mL	001
14) C375 Hexachloroethane	5.89	117	22252	18.69	ug/mL	001#
15) C370 N-Nitroso-di-n-propyl	6.30	70	121145	80.27	ug/mL	001
24) C445 1,2,4-Trichlorobenzen	7.12	180	146546	81.17	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.89	107	187566	126.16	ug/mL	002
30) C470 2-Methylnaphthalene	7.90	142	151589	47.41	ug/mL	002#
37) C535 Dimethylphthalate	9.30	163	14473	4.94	ug/mL	003#
38) C540 Acenaphthylene	9.35	152	106176	24.26	ug/mL	003#
39) C543 2,6-Dinitrotoluene	9.30	165	11168	17.59	ug/mL	003#
42) C550 Acenaphthene	9.35	153	228033	87.74	ug/mL	003
45) C560 4-Nitrophenol	9.62	109	52340	153.57	ug/mL	003#
46) C570 2,4-Dinitrotoluene	9.69	165	74158	89.64	ug/mL	003#
56) C635 Pentachlorophenol	11.27	266	77443	187.18	ug/mL	004
62) C655 Fluoranthene	13.63	202	325454	112.16	ug/mL	004
63) C715 Pyrene	13.63	202	325454	97.68	ug/mL	005

(#) = qualifier out of range

BOOKMARK

V. PESTICIDE/PCBs DATA

2E

WATER PESTICIDE SURROGATE RECOVERY

000187

Lab Name: AATSLA Contract: 68-D5-0023

Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column(1): RTX-35 ID: 0.53(mm) GC Column(2): DB-5 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK1	108	128	126	123			0
02	FER43	125	144	90	87			0
03	FER57	104	150	61	71			0
04	FER58	94	125	64	87			0
05	FER61	102	134	49	60			0
06	FER62	102	131	39	44			0
07	FER43MS	122	144	76	70			0
08	FER43MSD	109	122	72	90			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AATSLA Contract: 68-D5-0023

Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix Spike - EPA Sample No.: FER43

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0	0.560	112	56-123
Heptachlor	0.500	0	0.501	100	40-131
Aldrin	0.500	0	0.440	88	40-120
Dieldrin	1.000	0	1.20	120	52-126
Endrin	1.000	0	1.24	124 *	56-121
4,4'-DDT	1.000	0	0.784	78	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0.445	89	23 *	15	56-123
Heptachlor	0.500	0.454	91	9	20	40-131
Aldrin	0.500	0.448	90	2	22	40-120
Dieldrin	1.000	0.998	100	18	18	52-126
Endrin	1.000	1.03	103	18	21	56-121
4,4'-DDT	1.000	0.864	86	10	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 6 outside limits
Spike Recovery: 1 out of 12 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK1

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Lab Sample ID: 032896G Lab File ID:

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

Sulfur Cleanup: (Y/N) N Date Extracted: 03/28/96

Date Analyzed (1): 04/15/96 Date Analyzed (2): 04/24/96

Time Analyzed (1): 1503 Time Analyzed (2): 0858

Instrument ID (1): HP3F Instrument ID (2): ~~HP3~~ 3F mr 4/29/96

GC Column (1): RTX-35 ID: 0.53 (mm) GC Column (2): DB-5 ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FER43	15410_01	04/15/96	04/24/96
02	FER57	15410_04	04/15/96	04/24/96
03	FER58	15410_05	04/15/96	04/24/96
04	FER61	15410_06	04/15/96	04/24/96
05	FER62	15410_07	04/15/96	04/24/96
06	FER43MS	15410_02MS	04/15/96	04/24/96
07	FER43MSD	15410_03MSD	04/15/96	04/24/96

COMMENTS:

External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3041596\006F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.01
Run Time Bar Code: 1649
Acquired on : 15 Apr 96 04:49 PM
Report Created on: 15 Apr 96 05:24 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : FER43, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

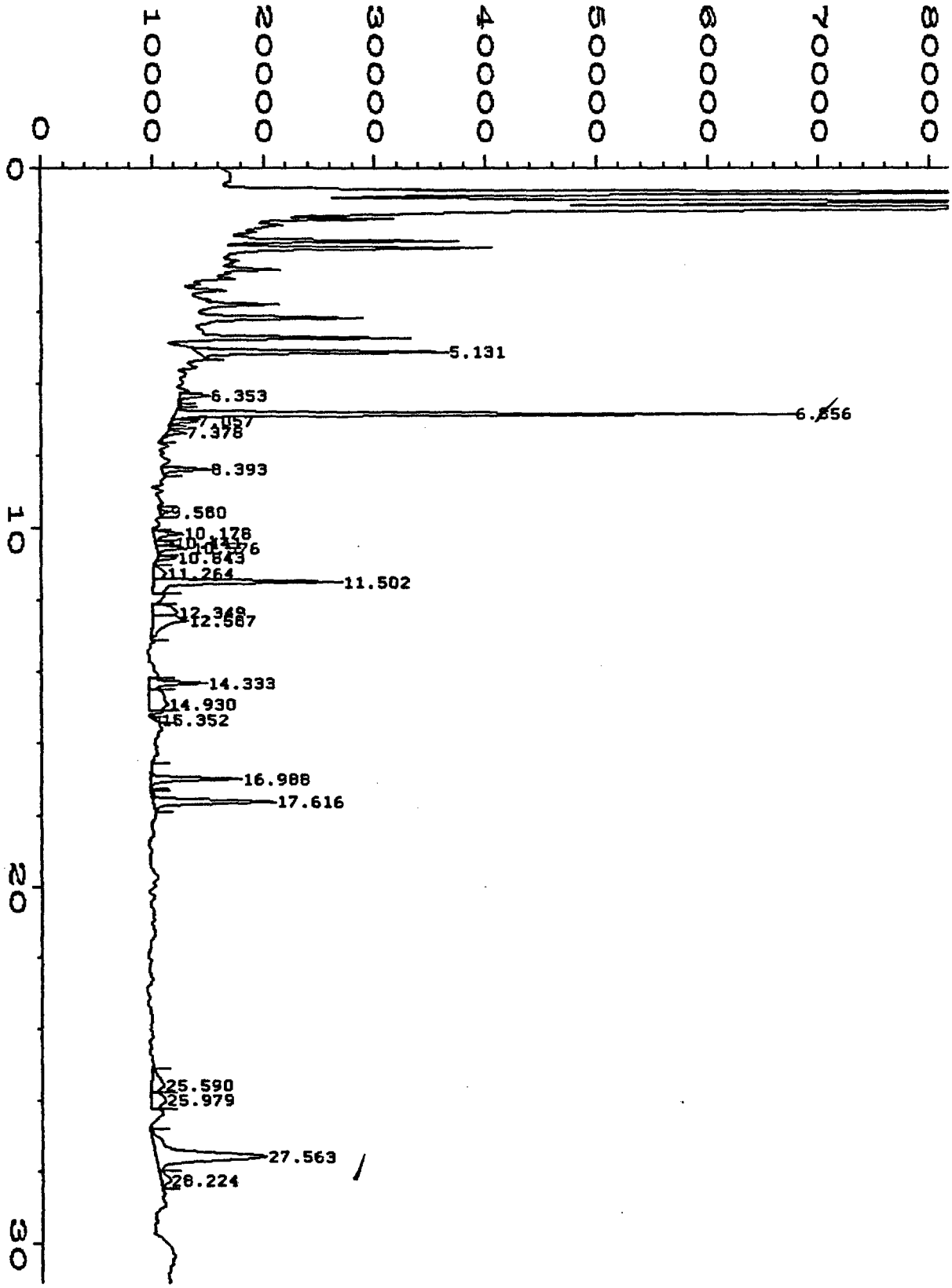
Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\006F0101.D 10/4 4/16/96

Ret Time	Area	Type	Width	Ref#	~~ug/Kg~~	Name
6.856	260367	BV	0.072	1	0.250	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.843	9262	BV	0.081	1	0.00859	HEPTACHLOR NV
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.930	47527	VV	0.342	1	0.0600	DIELDRIN NV
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.988	48657	BB	0.094	1	0.0915	ENDRIN ALDEHYDE NV
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.563	174850	PV	0.266	1	0.179	DCB

Ø

Not all calibrated peaks were found



Data File Name : C:\HPCHEM\3\DATA\3041596\006F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.01
Run Time Bar Code: 16 49
Acquired on : 15 Apr 96 04:49 PM
Report Created on: 15 Apr 96 05:25 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : FER43, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000193

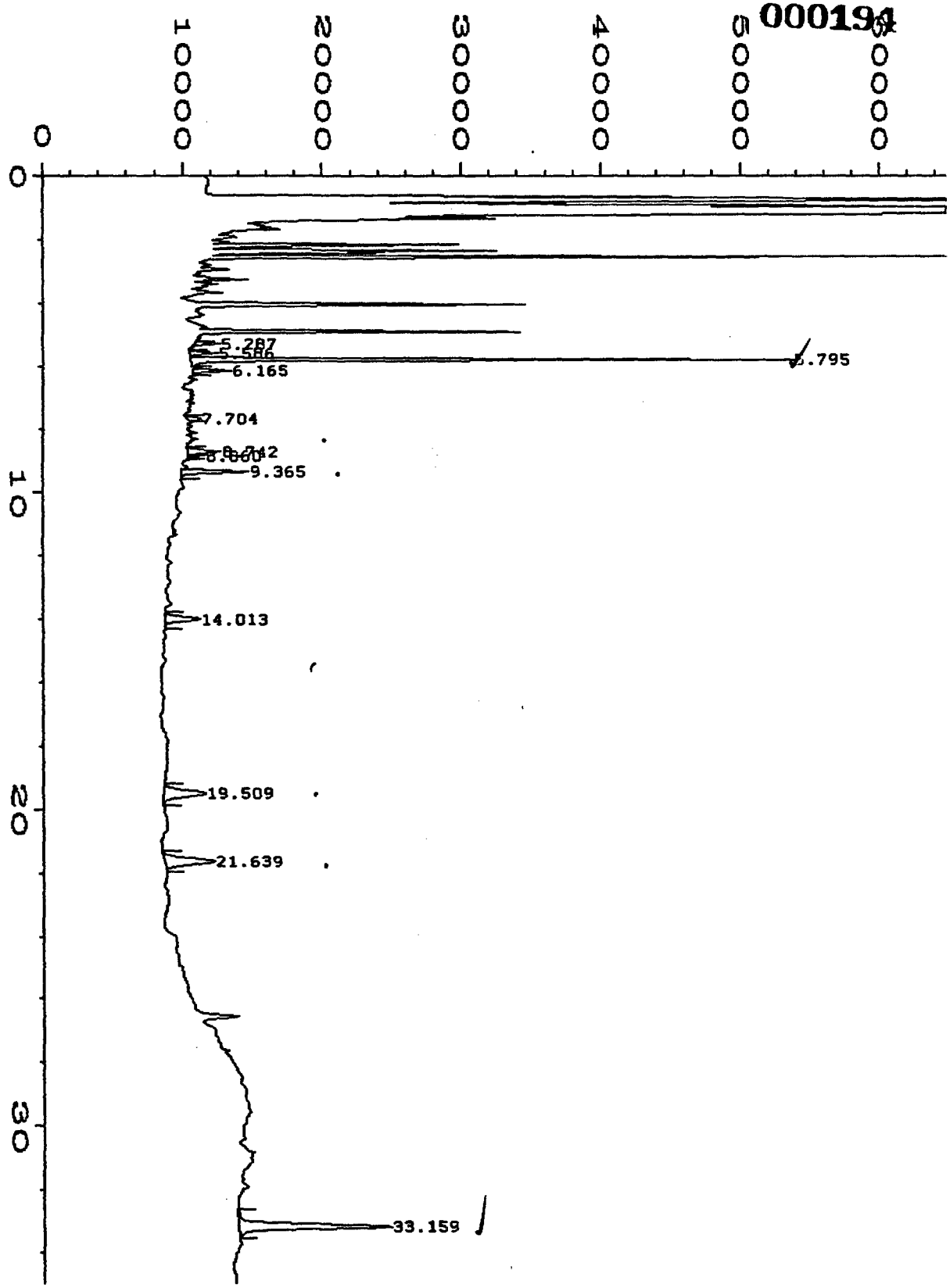
Data File Name : C:\HPCHEM\3\DATA\3042496\005F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.01
Run Time Bar Code:
Acquired on : 24 Apr 96 09:38 AM
Report Created on: 24 Apr 96 10:17 AM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 10
Sample Info : FER43, HP3F COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\005F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
5.795	165530	VV	0.057	1	0.286	TCX
6.596	* not found *			1		alpha-BHC
7.094	* not found *			1		beta-BHC
7.265	* not found *			1		gamma-BHC
7.704	5740	BV	0.083	1	0.0100	delta-BHC NC
8.958	* not found *			1		HEPTACHLOR
10.008	* not found *			1		ALDRIN
11.391	* not found *			1		HEPT. EPOXIDE
12.380	* not found *			1		g. CHLORDANE
13.002	* not found *			1		ENDOSULFAN I
13.098	* not found *			1		a. CHLORDANE
14.013	25180	BB	0.147	1	0.0460	4,4'-DDE NC
14.355	* not found *			1		DIELDRIN
15.660	* not found *			1		ENDRIN
16.221	* not found *			1		ENDOSULFAN II
16.744	* not found *			1		4,4'-DDD
17.536	* not found *			1		ENDRIN ALDEHYDE
19.509	43978	BB	0.221	1	0.0851	ENDOSULFAN SULFATE NC
19.826	* not found *			1		4,4'-DDT
23.798	* not found *			1		ENDRIN KETONE
25.091	* not found *			1		METHOXYCHLOR
33.159	115987	BB	0.162	1	0.179	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3042496\005F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 5
Sample Name	: 15410.01	Injection Number	: 1
Bottle Time Bar Code:		Sequence Line	: 1
Acquired on	: 24 Apr 96 09:38 AM	Instrument Method	: EPADB5P.MTH
Report Created on	: 24 Apr 96 10:17 AM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER43, HP3F COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

000196

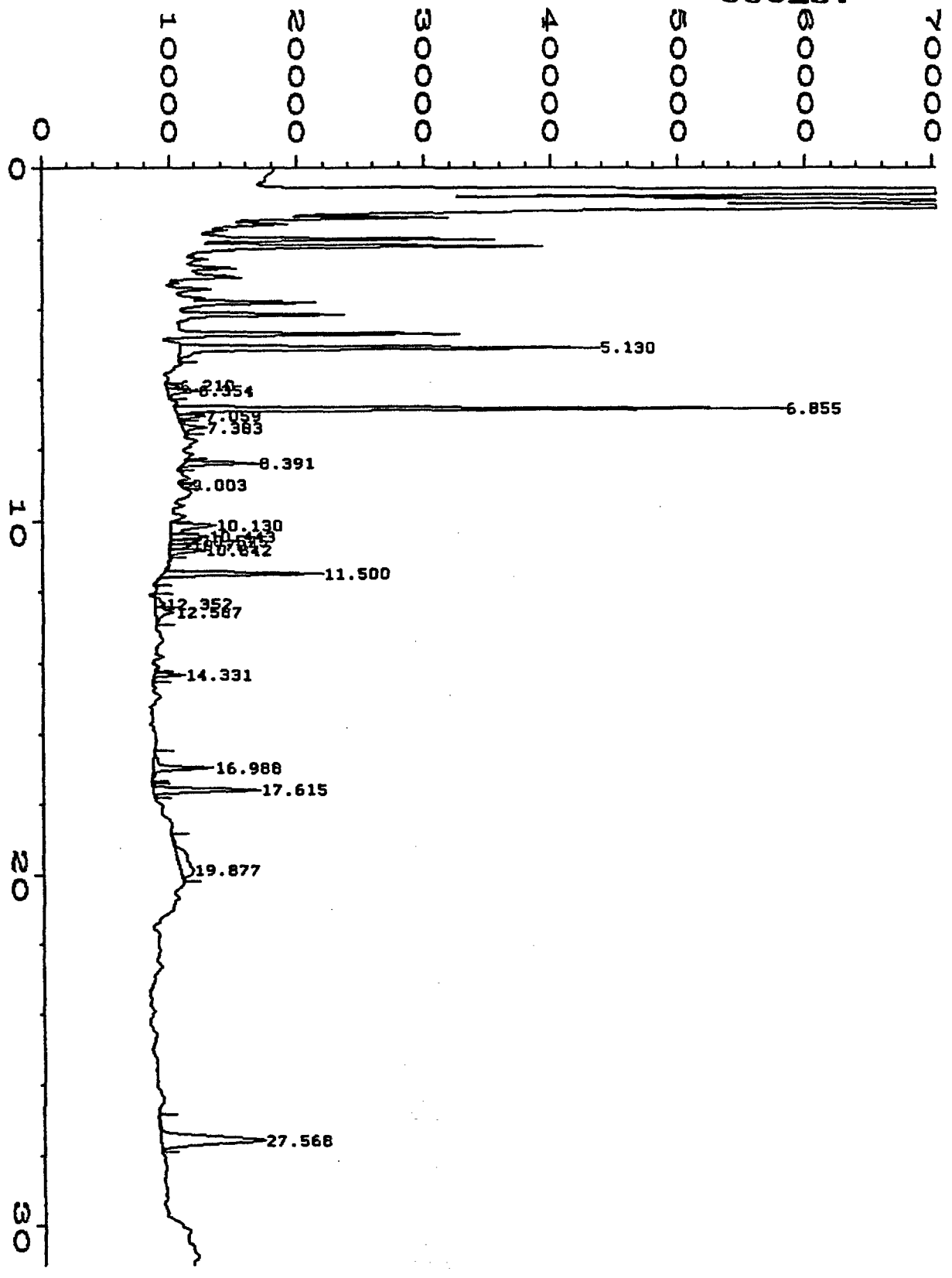
Data File Name : C:\HPCHEM\3\DATA\3041596\009F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.04
Run Time Bar Code: 1836
Acquired on : 15 Apr 96 06:36 PM
Report Created on: 15 Apr 96 07:22 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :
Sample Info : FER57, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Sig. 1 in C:\HPCHEM\3\DATA\3041596\009F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.855	216612	BV	0.070	1	0.208	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.842	18764	VV	0.100	1	0.0174	HEPTACHLOR NU
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.988	36824	BB	0.112	1	0.0692	ENDRIN ALDEHYDE NU
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.568	118995	BV	0.228	1	0.122	DCB

Not all calibrated peaks were found

000197



Data File Name : C:\HPCHEM\3\DATA\3041596\009F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.04
Run Time Bar Code: 18 36
Acquired on : 15 Apr 96 06:36 PM
Report Created on: 15 Apr 96 07:22 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : FER57, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000198

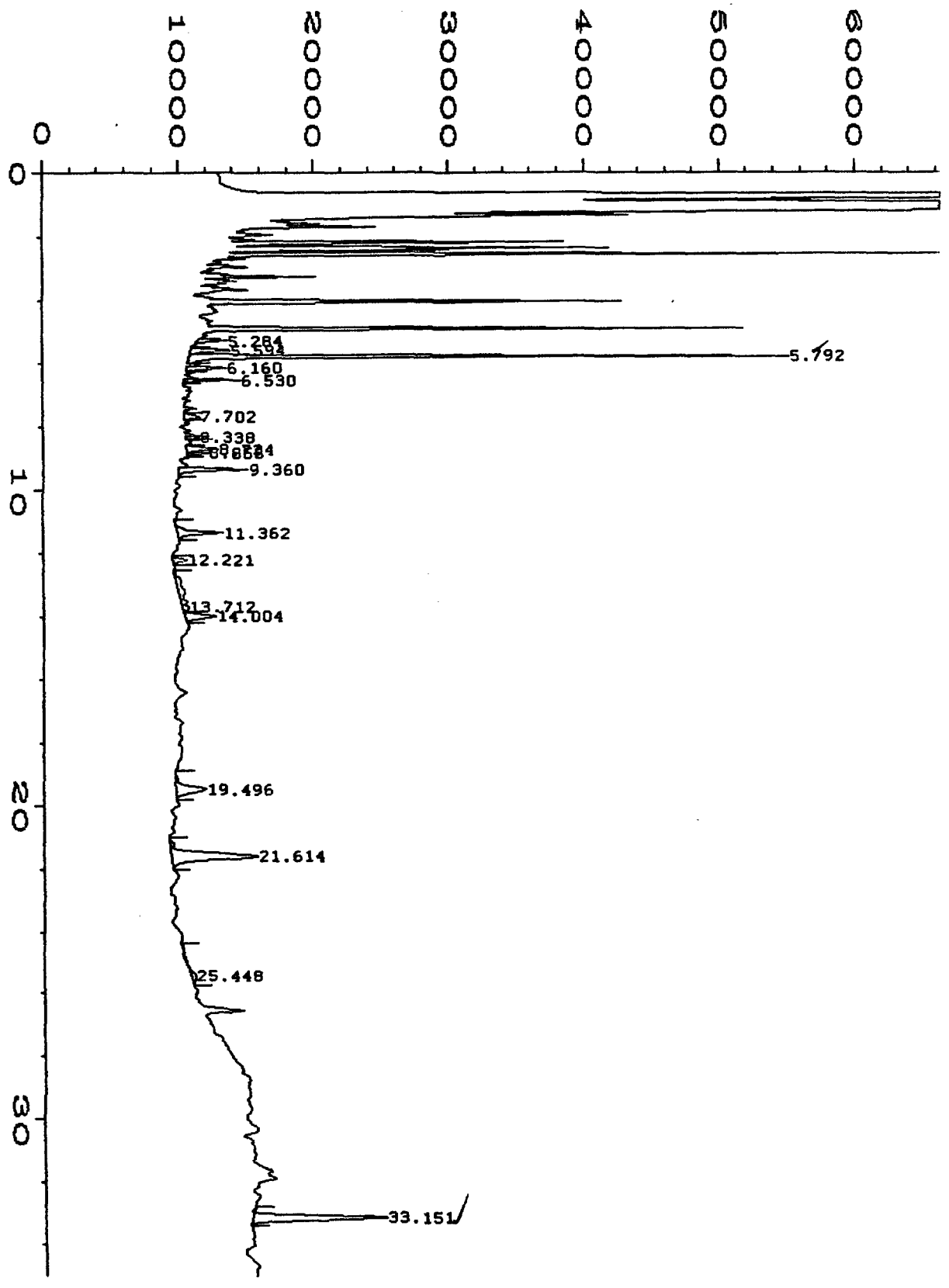
Data File Name : C:\HPCHEM\3\DATA\3042496\008F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.04
Run Time Bar Code:
Acquired on : 24 Apr 96 11:36 AM
Report Created on: 24 Apr 96 12:15 PM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 10
Sample Info : FER57, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\008F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
5.792	172626	VV	0.058	1	0.298	TCX
6.596	* not found *			1		alpha-BHC
7.094	* not found *			1		beta-BHC
7.265	* not found *			1		gamma-BHC
7.702	7261	BV	0.086	1	0.0127	delta-BHC NV
8.958	* not found *			1		HEPTACHLOR
10.008	* not found *			1		ALDRIN
11.362	22643	BB	0.101	1	0.0335	HEPT. EPOXIDE NV
12.380	* not found *			1		g. CHLORDANE
13.002	* not found *			1		ENDOSULFAN I
13.098	* not found *			1		a. CHLORDANE
14.077	* not found *			1		4,4'-DDE
14.355	* not found *			1		DIELDRIN
15.660	* not found *			1		ENDRIN
16.221	* not found *			1		ENDOSULFAN II
16.744	* not found *			1		4,4'-DDD
17.536	* not found *			1		ENDRIN ALDEHYDE
19.496	31620	BV	0.227	1	0.0612	ENDOSULFAN SULFATE
19.826	* not found *			1		4,4'-DDT
23.798	* not found *			1		ENDRIN KETONE
25.091	* not found *			1		METHOXYCHLOR
33.151	94247	BV	0.154	1	0.146	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3042496\008F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 8
Sample Name	: 15410.04	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 24 Apr 96 11:36 AM	Instrument Method	: EPADB5P.MTH
Report Created on	: 24 Apr 96 12:15 PM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER57, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

000201

Data File Name : C:\HPCHEM\3\DATA\3041596\010F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.05
Run Time Bar Code: 1911
Acquired on : 15 Apr 96 07:11 PM
Report Created on: 15 Apr 96 07:47 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : FER58, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

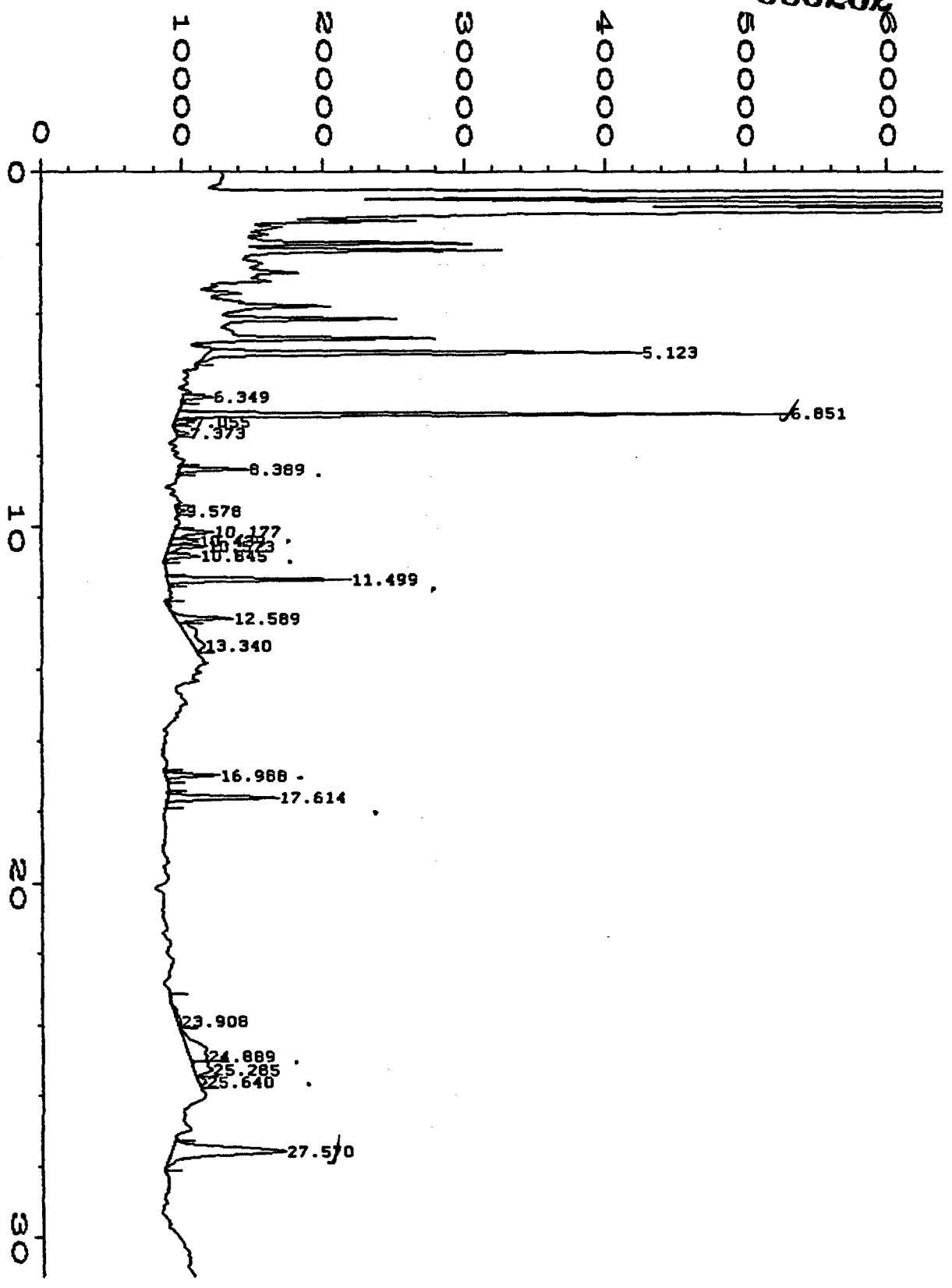
Sig. 1 in C:\HPCHEM\3\DATA\3041596\010F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.851	194997	BV	0.070	1	0.187	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.845	14628	VV	0.092	1	0.0136	HEPTACHLOR NV
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.988	22633	BV	0.092	1	0.0426	ENDRIN ALDEHYDE NV
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.570	125993	BV	0.238	1	0.129	DCB

Ø

Not all calibrated peaks were found

000202



Data File Name	: C:\HPCHEM\3\DATA\3041596\010F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 10
Sample Name	: 15410.05	Injection Number	: 1
Run Time Bar Code:	1911	Sequence Line	: 1
Acquired on	: 15 Apr 96 07:11 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 07:47 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER58, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3042496\009F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.05
Run Time Bar Code:
Acquired on : 24 Apr 96 12:16 PM
Report Created on: 24 Apr 96 12:55 PM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 10
Sample Info : FER58, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M

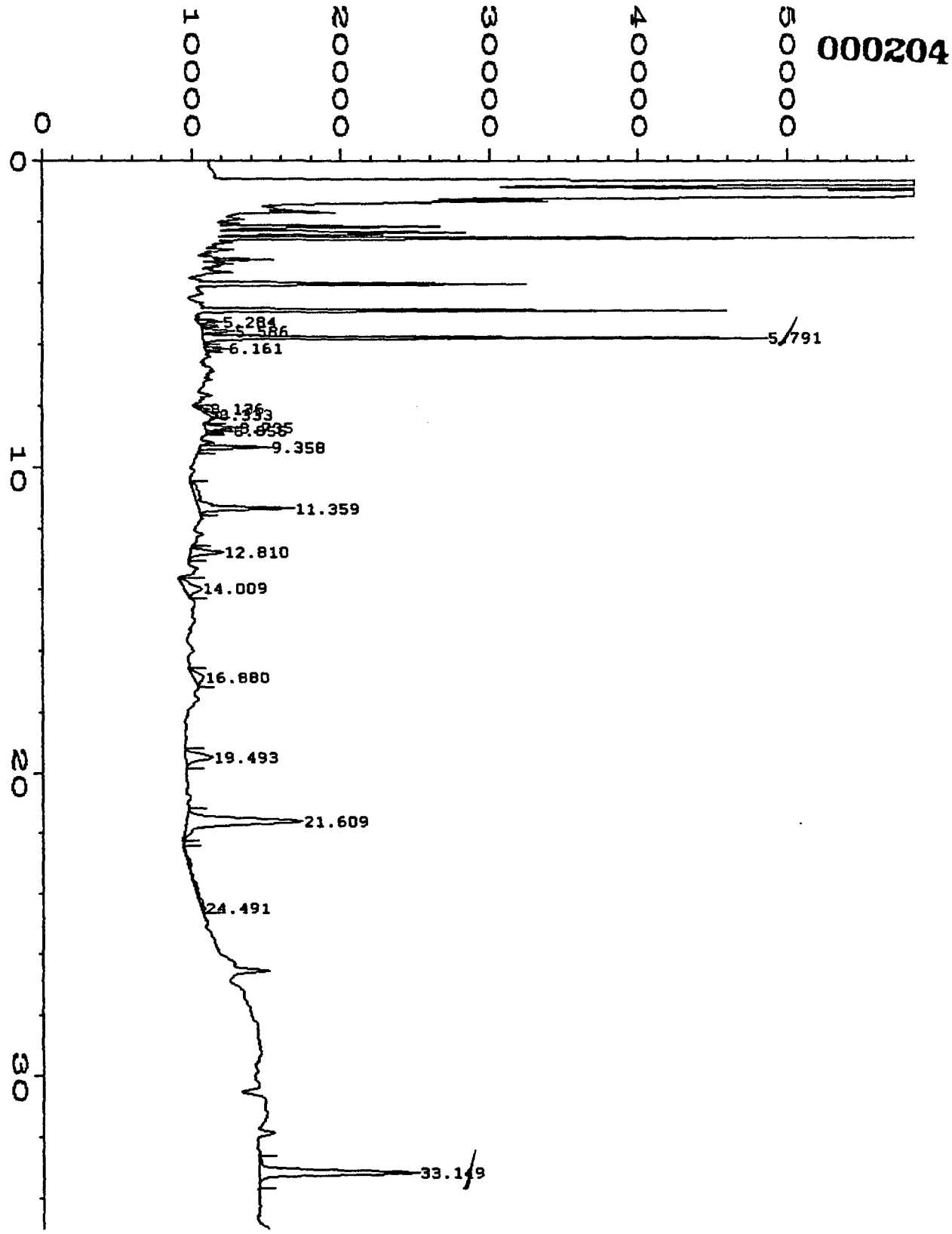
Page Number 000203
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\009F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
5.791	143591	VV	0.057	1	0.248	TCX
6.596	* not found *			1		alpha-BHC
7.094	* not found *			1		beta-BHC
7.265	* not found *			1		gamma-BHC
7.704	* not found *			1		delta-BHC
8.958	* not found *			1		HEPTACHLOR
10.008	* not found *			1		ALDRIN
11.359	55216	BB	0.123	1	0.0816	HEPT. EPOXIDE NV
12.380	* not found *			1		g. CHLORDANE
13.002	* not found *			1		ENDOSULFAN I Ø
13.098	* not found *			1		a. CHLORDANE
14.009	20468	BV	0.249	1	0.0374	4,4'-DDE NV
14.355	* not found *			1		DIELDRIN
15.660	* not found *			1		ENDRIN
16.221	* not found *			1		ENDOSULFAN II
16.744	* not found *			1		4,4'-DDD
17.536	* not found *			1		ENDRIN ALDEHYDE
19.493	25445	BB	0.224	1	0.0493	ENDOSULFAN SULFATE NV
19.826	* not found *			1		4,4'-DDT
23.798	* not found *			1		ENDRIN KETONE
25.091	* not found *			1		METHOXYCHLOR
33.149	115565	BB	0.169	1	0.179	DCB

Not all calibrated peaks were found

000204



Data File Name	: C:\HPCHEM\3\DATA\3042496\009F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 9
Sample Name	: 15410.05	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 24 Apr 96 12:16 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 24 Apr 96 12:55 PM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER58, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

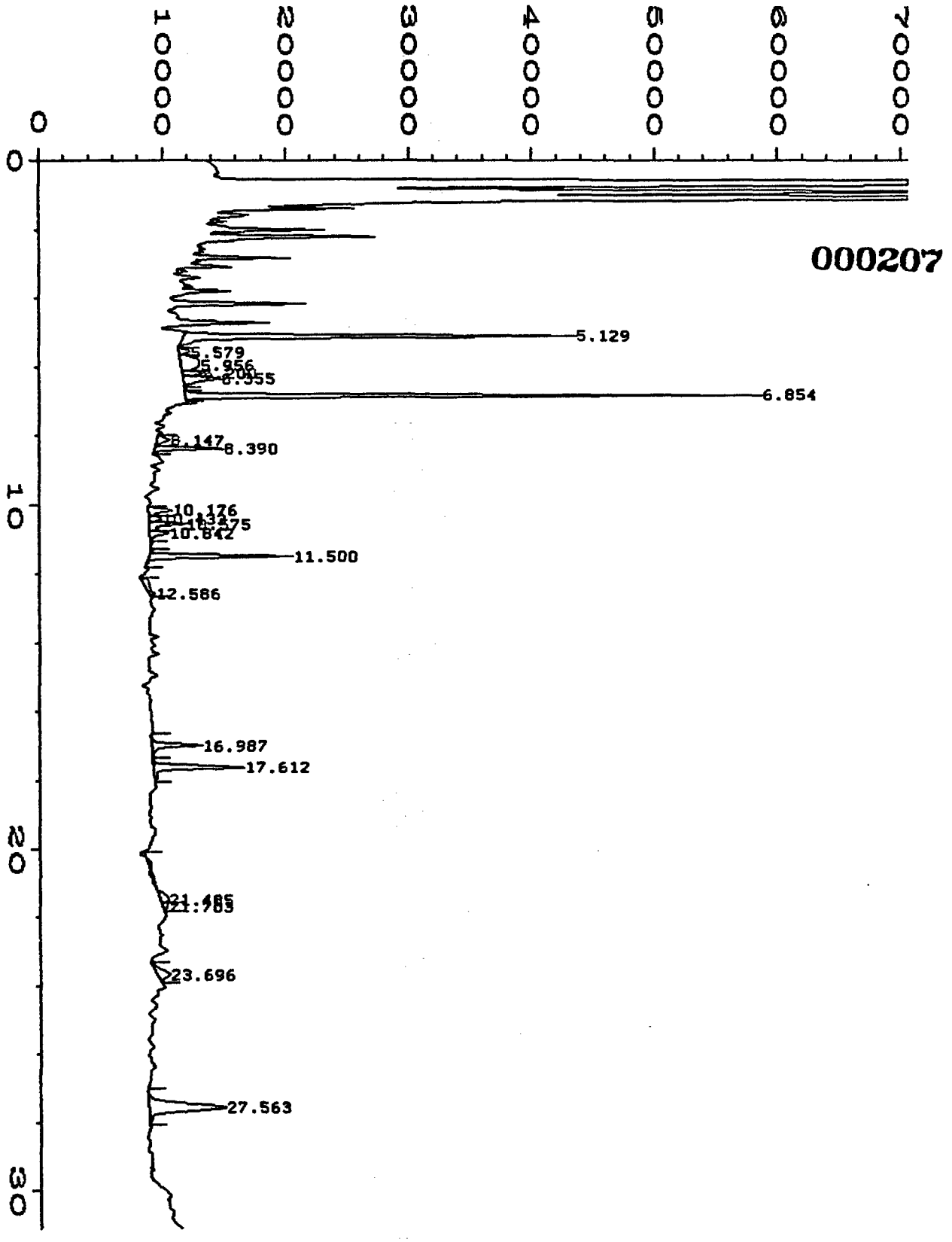
000206

Data File Name : C:\HPCHEM\3\DATA\3041596\015F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.06
Run Time Bar Code: 2209
Acquired on : 15 Apr 96 10:09 PM
Report Created on: 15 Apr 96 10:44 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :
Sample Info : FER61, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Sig. 1 in C:\HPCHEM\3\DATA\3041596\015F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.854	212518	BV	0.072	1	0.204	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.842	11271	VB	0.104	1	0.0105	HEPTACHLOR NC
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.987	27761	BB	0.103	1	0.0522	ENDRIN ALDEHYDE NC
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.563	95121	BB	0.238	1	0.0972	DCB

Not all calibrated peaks were found



Data File Name : C:\HPCHEM\3\DATA\3041596\015F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.06
Run Time Bar Code:
Acquired on : 15 Apr 96 10:09 PM
Report Created on: 15 Apr 96 10:44 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : FER61, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000208

Data File Name : C:\HPCHEM\3\DATA\3042496\010F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.06
Run Time Bar Code:
Acquired on : 24 Apr 96 12:55 PM
Report Created on: 24 Apr 96 01:34 PM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 10
Sample Info : FER61, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M

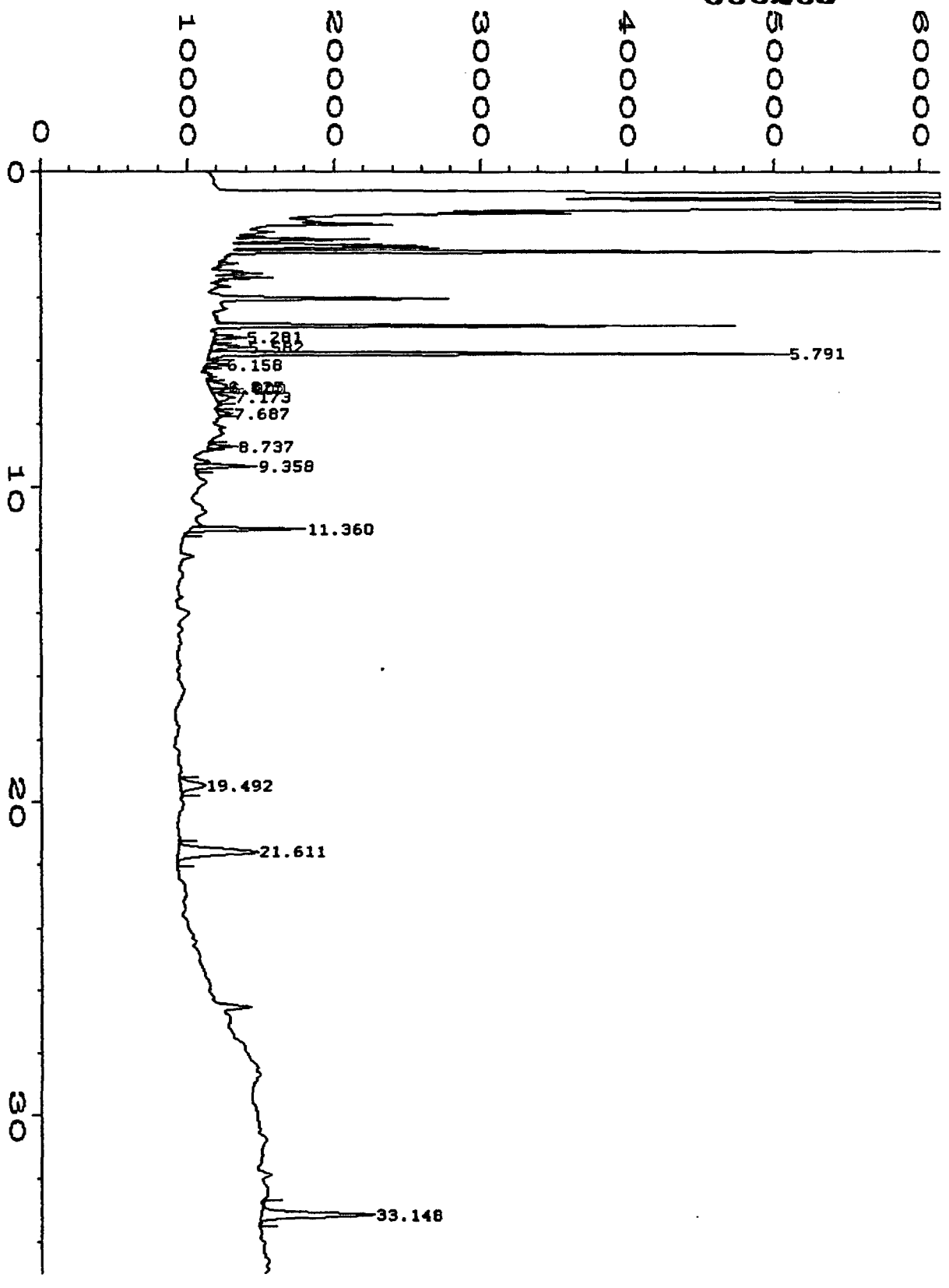
Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\010F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
5.791	153538	VV	0.058	1	0.265	TCX
6.596	* not found *			1		alpha-BHC
7.094	* not found *			1		beta-BHC
7.265	* not found *			1		gamma-BHC
7.687	5770	BV	0.082	1	0.0101	delta-BHC NC
8.958	* not found *			1		HEPTACHLOR
10.008	* not found *			1		ALDRIN
11.360	44358	VB	0.087	1	0.0656	HEPT. EPOXIDE NC
12.380	* not found *			1		g. CHLORDANE
13.002	* not found *			1		ENDOSULFAN I
13.098	* not found *			1		a. CHLORDANE
14.077	* not found *			1		4,4'-DDE
14.355	* not found *			1		DIELDRIN
15.660	* not found *			1		ENDRIN
16.221	* not found *			1		ENDOSULFAN II
16.744	* not found *			1		4,4'-DDD
17.536	* not found *			1		ENDRIN ALDEHYDE
19.492	24115	BB	0.219	1	0.0467	ENDOSULFAN SULFATE NC
19.826	* not found *			1		4,4'-DDT
23.798	* not found *			1		ENDRIN KETONE
25.091	* not found *			1		METHOXYCHLOR
33.148	80558	BV	0.160	1	0.125	DCB

Not all calibrated peaks were found

000209



Data File Name	: C:\HPCHEM\3\DATA\3042496\010F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 10
Sample Name	: 15410.06	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 24 Apr 96 12:55 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 24 Apr 96 01:34 PM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER61, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

000211

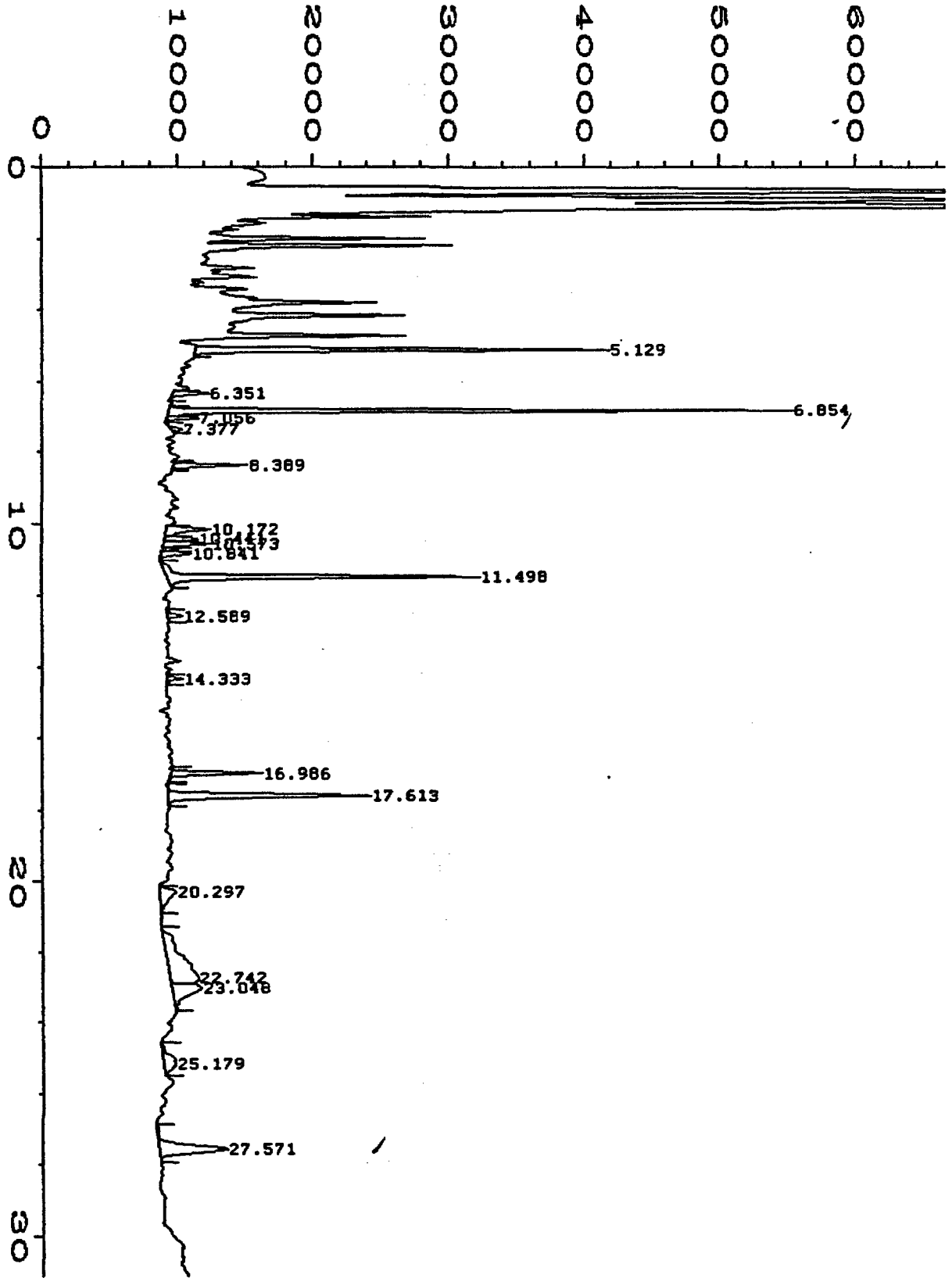
Data File Name : C:\HPCHEM\3\DATA\3041596\016F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.07
Run Time Bar Code: 2244
Acquired on : 15 Apr 96 10:44 PM
Report Created on: 15 Apr 96 11:20 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :
Sample Info : FER62, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Sig. 1 in C:\HPCHEM\3\DATA\3041596\016F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.854	212580	BV	0.071	1	0.204	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.841	15803	VV	0.104	1	0.0147	HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.986	37423	BB	0.087	1	0.0704	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.571	75722	BV	0.238	1	0.0774	DCB

Not all calibrated peaks were found

000212



Data File Name : C:\HPCHEM\3\DATA\3041596\016F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.07
Run Time Bar Code: 2244
Acquired on : 15 Apr 96 10:44 PM
Report Created on: 15 Apr 96 11:20 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : FER62, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000213

Data File Name : C:\HPCHEM\3\DATA\3042496\011F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.07
Run Time Bar Code: 13 34
Acquired on : 24 Apr 96 01:34 PM
Report Created on: 24 Apr 96 02:14 PM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 10
Sample Info : FER62, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M

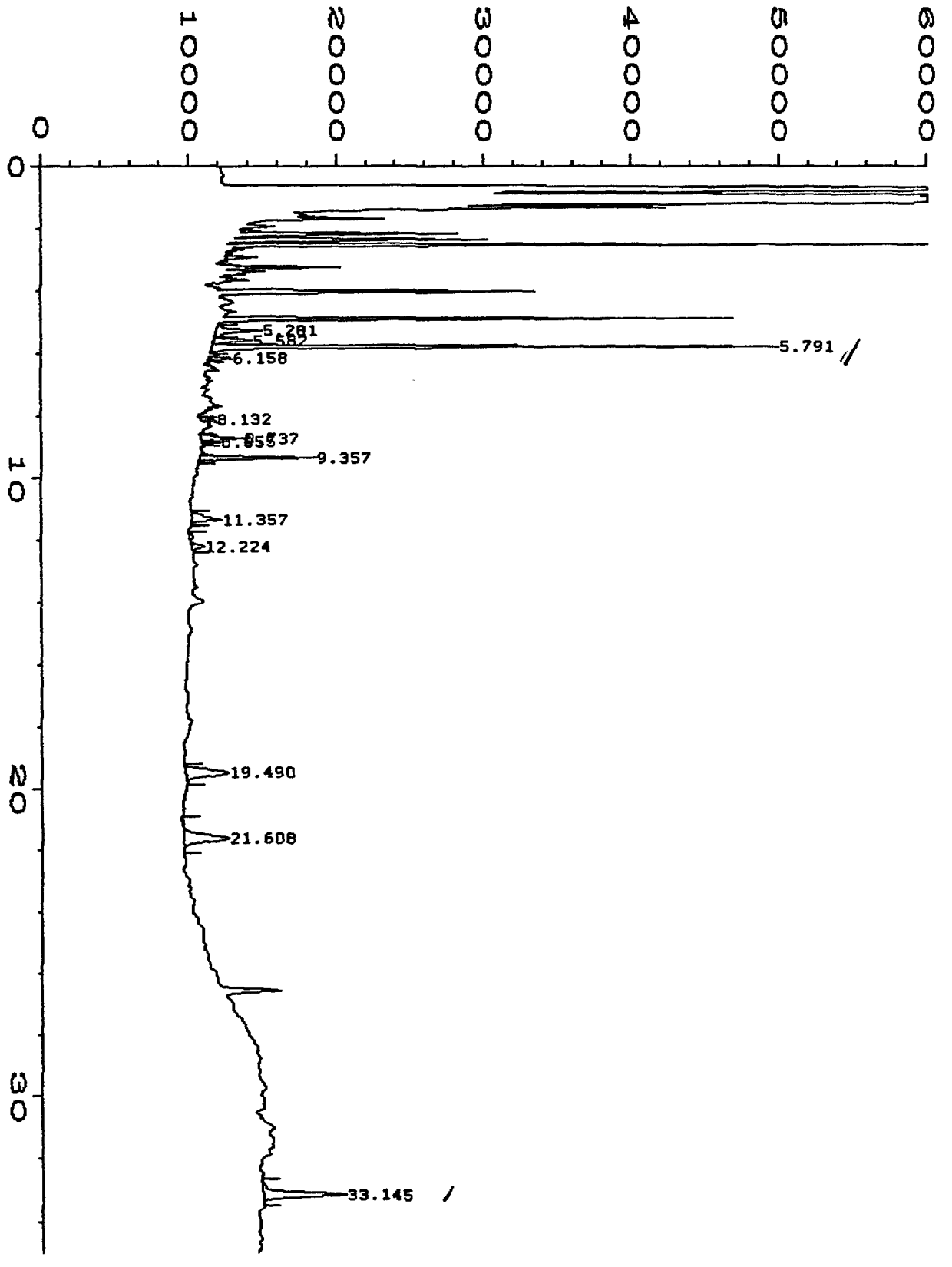
Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\011F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
5.791	150144	VV	0.059	1	0.259	TCX
6.596	* not found *			1		alpha-BHC
7.094	* not found *			1		beta-BHC
7.265	* not found *			1		gamma-BHC
7.704	* not found *			1		delta-BHC
8.958	* not found *			1		HEPTACHLOR
10.008	* not found *			1		ALDRIN
11.357	17445	BB	0.123	1	0.0258	HEPT. EPOXIDE NC
12.380	* not found *			1		g. CHLORDANE
13.002	* not found *			1		ENDOSULFAN I ∅
13.098	* not found *			1		a. CHLORDANE
14.077	* not found *			1		4,4'-DDE
14.355	* not found *			1		DIELDRIN
15.660	* not found *			1		ENDRIN
16.221	* not found *			1		ENDOSULFAN II
16.744	* not found *			1		4,4'-DDD
17.536	* not found *			1		ENDRIN ALDEHYDE
19.490	40694	BB	0.220	1	0.0788	ENDOSULFAN SULFATE NC
19.826	* not found *			1		4,4'-DDT
23.798	* not found *			1		ENDRIN KETONE
25.091	* not found *			1		METHOXYCHLOR
33.145	58273	BB	0.160	1	0.0901	DCB

Not all calibrated peaks were found

000214



Data File Name	: C:\HPCHEM\3\DATA\3042496\011F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 11
Sample Name	: 15410.07	Injection Number	: 1
Run Time Bar Code:	13 34	Sequence Line	: 1
Acquired on	: 24 Apr 96 01:34 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 24 Apr 96 02:14 PM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER62, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M		

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

000215

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Instrument ID: HP3F Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: RTX-35 ID: 0.53(mm) Date(s) Analyzed: 04/14/96 04/15/96

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	8.70	8.70	8.70	8.70	8.65	8.75
beta-BHC	9.94	9.95	9.94	9.94	9.89	9.99
delta-BHC	10.92	10.92	10.92	10.92	10.87	10.97
gamma-BHC (Lindane)	9.76	9.76	9.76	9.76	9.71	9.81
Heptachlor	10.85	10.85	10.85	10.85	10.80	10.90
Aldrin	11.76	11.76	11.76	11.76	11.71	11.81
Heptachlor epoxide	13.19	13.19	13.18	13.19	13.12	13.26
Endosulfan I	14.15	14.16	14.16	14.16	14.09	14.23
Dieldrin	14.92	14.92	14.92	14.92	14.85	14.99
4,4'-DDE	14.60	14.60	14.60	14.60	14.53	14.67
Endrin	15.80	15.81	15.80	15.80	15.73	15.87
Endosulfan II	16.25	16.25	16.24	16.25	16.18	16.32
4,4'-DDD	15.99	15.99	15.99	15.99	15.92	16.06
Endosulfan sulfate	17.52	17.52	17.51	17.52	17.45	17.59
4,4'-DDT	16.82	16.82	16.82	16.82	16.75	16.89
Methoxychlor	19.39	19.39	19.39	19.39	19.32	19.46
Endrin ketone	20.11	20.12	20.11	20.11	20.04	20.18
Endrin aldehyde	17.04	17.04	17.04	17.04	16.97	17.11
alpha Chlordane	14.08	14.08	14.08	14.08	14.01	14.15
gamma Chlordane	13.69	13.69	13.68	13.69	13.62	13.76
Tetrachloro-m-xylene	6.87	6.87	6.87	6.87	6.82	6.92
Decachlorobiphenyl	27.62	27.63	27.63	27.63	27.53	27.73

* Surrogate retention times are measured from Standard Mix A analyses

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

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Instrument ID: HPF3 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-5 ID: 0.53(mm) Date(s) Analyzed: 04/23/96 04/24/96

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	6.60	6.60	6.59	6.60	6.55	6.65
beta-BHC	7.10	7.09	7.09	7.09	7.04	7.14
delta-BHC	7.70	7.70	7.70	7.70	7.65	7.75
gamma-BHC (Lindane)	7.26	7.26	7.26	7.26	7.21	7.31
Heptachlor	8.96	8.96	8.95	8.96	8.91	9.01
Aldrin	10.01	10.01	10.00	10.01	9.96	10.06
Heptachlor epoxide	11.39	11.39	11.39	11.39	11.32	11.46
Endosulfan I	13.00	13.00	13.00	13.00	12.93	13.07
Dieldrin	14.36	14.36	14.35	14.36	14.29	14.43
4,4'-DDE	14.08	14.08	14.07	14.08	14.01	14.15
Endrin	15.66	15.66	15.65	15.66	15.59	15.73
Endosulfan II	16.23	16.22	16.21	16.22	16.15	16.29
4,4'-DDD	16.74	16.74	16.73	16.74	16.67	16.81
Endosulfan sulfate	19.48	19.47	19.46	19.47	19.40	19.54
4,4'-DDT	19.83	19.83	19.81	19.82	19.75	19.89
Methoxychlor	25.10	25.09	25.08	25.09	25.02	25.16
Endrin ketone	23.79	23.79	23.78	23.79	23.72	23.86
Endrin aldehyde	17.55	17.54	17.53	17.54	17.47	17.61
alpha Chlordane	13.10	13.10	13.09	13.10	13.03	13.17
gamma Chlordane	12.38	12.38	12.38	12.38	12.31	12.45
Tetrachloro-m-xylene	5.80	5.80	5.79	5.80	5.75	5.85
Decachlorobiphenyl	33.18	33.17	33.16	33.17	33.07	33.27

* Surrogate retention times are measured from Standard Mix A analyses

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

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Instrument ID: HP3F Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: RTX-35 ID: 0.53(mm) Date(s) Analyzed: 04/14/96 04/15/96

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	5250000	6690000	6760000	6230000	13.7
beta-BHC	3140000	3390000	2870000	3130000	8.3
delta-BHC	3620000	5180000	5160000	4650000	19.2
gamma-BHC (Lindane)	4940000	6160000	6080000	5730000	11.9
Heptachlor	5810000	5390000	5230000	5480000	5.5
Aldrin	4230000	4990000	4860000	4690000	8.7
Heptachlor epoxide	4220000	4930000	4310000	4490000	8.6
Endosulfan I	4910000	4250000	4090000	4420000	9.8
Dieldrin	3690000	3960000	3910000	3850000	3.7
4,4'-DDE	3410000	3920000	3600000	3640000	7.1
Endrin	2970000	2990000	3000000	2990000	0.5
Endosulfan II	3550000	3670000	3240000	3490000	6.4
4,4'-DDD	2290000	2540000	2630000	2490000	7.1
Endosulfan sulfate	3450000	3370000	3070000	3300000	6.1
4,4'-DDT	2640000	2520000	2520000	2560000	2.7
Methoxychlor	1450000	1180000	973000	1200000	19.9
Endrin ketone	2950000	3610000	3350000	3300000	10.1
Endrin aldehyde	2770000	2660000	2390000	2610000	7.5
alpha Chlordane	4580000	5120000	4310000	4670000	8.8
gamma Chlordane	4470000	5150000	4500000	4710000	8.2
Tetrachloro-m-xylene	7050000	5210000	4660000	5640000	22.2
Decachlorobiphenyl	6180000	4890000	3860000	4980000	23.4

* Surrogate calibration factors are measured from Standard Mix A analyses

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: AATSLA Contract: 68-D5-0023 000218

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Instrument ID: HP~~P3~~ 3F mr 4/24/96 Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-5 ID: 0.53(mm) Date(s) Analyzed: 04/23/96 04/24/96

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	3050000	3690000	4290000	3680000	16.9
beta-BHC	1700000	1780000	1680000	1720000	3.1
delta-BHC	2420000	2870000	3100000	2800000	12.4
gamma-BHC (Lindane)	3080000	3490000	3890000	3490000	11.6
Heptachlor	4180000	3690000	3890000	3920000	6.3
Aldrin	2650000	2960000	3200000	2940000	9.4
Heptachlor epoxide	3870000	3380000	3240000	3500000	9.5
Endosulfan I	2900000	3280000	3320000	3170000	7.3
Dieldrin	2770000	2980000	3370000	3040000	10.0
4,4'-DDE	2180000	2740000	2660000	2530000	12.0
Endrin	2660000	2700000	3150000	2840000	9.6
Endosulfan II	2530000	2700000	2740000	2660000	4.2
4,4'-DDD	1530000	2000000	2270000	1930000	19.4
Endosulfan sulfate	2790000	2580000	2510000	2630000	5.5
4,4'-DDT	2890000	2320000	2610000	2610000	10.9
Methoxychlor	1370000	1300000	1190000	1290000	7.1
Endrin ketone	2290000	2660000	2750000	2570000	9.5
Endrin aldehyde	2150000	2060000	1910000	2040000	5.9
alpha Chlordane	3130000	3360000	3170000	3220000	3.8
gamma Chlordane	3380000	3380000	3230000	3330000	2.6
Tetrachloro-m-xylene	3250000	2870000	2860000	2990000	7.4
Decachlorobiphenyl	3550000	3330000	2830000	3240000	11.4

* Surrogate calibration factors are measured from Standard Mix A analyses

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

000219

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Instrument ID: HP3F Date(s) Analyzed: 04/14/96 04/14/96

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	1.00	*1	16.42	16.35	16.49	191000
		*2	17.05	16.98	17.12	96300
		*3	17.37	17.30	17.44	148000
		4	18.90	18.83	18.97	175000
		5	19.12	19.05	19.19	146000
Aroclor 1016	0.200	*1	9.66	9.59	9.73	266000
		*2	10.74	10.67	10.81	542000
		*3	11.14	11.07	11.21	194000
		4	11.47	11.40	11.54	170000
		5	11.60	11.53	11.67	160000
Aroclor 1221	0.400	*1	7.91	7.84	7.98	80600
		*2	8.31	8.24	8.38	45000
		*3	8.49	8.42	8.56	141000
		4				
		5				
Aroclor 1232	0.200	*1	8.49	8.42	8.56	134000
		*2	9.66	9.59	9.73	157000
		*3	10.74	10.67	10.81	515000
		4	11.14	11.07	11.21	445000
		5	11.47	11.40	11.54	313000
Aroclor 1242	0.200	*1	8.49	8.42	8.56	109000
		*2	9.66	9.59	9.73	208000
		*3	10.74	10.67	10.81	367000
		4	12.40	12.33	12.47	188000
		5	13.19	13.12	13.26	182000
Aroclor 1248	0.200	*1	11.60	11.53	11.67	219000
		*2	12.40	12.33	12.47	260000
		*3	13.19	13.12	13.26	287000
		4	13.34	13.27	13.41	219000
		5	14.01	13.94	14.08	227000
Aroclor 1254	0.200	*1	13.74	13.67	13.81	329000
		*2	15.03	14.96	15.10	298000
		*3	15.42	15.35	15.49	392000
		4	15.80	15.73	15.87	195000
		5	16.87	16.80	16.94	204000
Aroclor 1260	0.200	*1	15.49	15.42	15.56	283000
		*2	15.80	15.73	15.87	343000
		*3	16.87	16.80	16.94	289000
		4	18.08	18.01	18.15	245000
		5	18.66	18.59	18.73	527000

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: AATSLA Contract: 68-D5-0023 000220

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Instrument ID: ~~HP3~~ 3F for 4/25/96 Date(s) Analyzed: 04/23/96 04/23/96

GC Column: DB-5 ID: 0.53(mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	1.00	*1	17.06	16.99	17.13	50600
		*2	20.48	20.41	20.55	73700
		*3	23.56	23.49	23.63	53100
		4	26.41	26.34	26.48	54700
		5	27.24	27.17	27.31	41400
Aroclor 1016	0.200	*1	7.44	7.37	7.51	152000
		*2	7.86	7.79	7.93	93300
		*3	8.47	8.40	8.54	302000
		4	8.74	8.67	8.81	124000
		5	8.94	8.87	9.01	71200
Aroclor 1221	0.400	*1	6.23	6.16	6.30	59800
		*2	6.44	6.37	6.51	32200
		*3	6.57	6.50	6.64	96700
		4				
		5				
Aroclor 1232	0.200	*1	6.57	6.50	6.64	84900
		*2	7.44	7.37	7.51	81200
		*3	7.86	7.79	7.93	37800
		4	8.47	8.40	8.54	135000
		5	8.74	8.67	8.81	61000
Aroclor 1242	0.200	*1	7.44	7.37	7.51	136000
		*2	7.86	7.79	7.93	67600
		*3	8.47	8.40	8.54	232000
		4	8.74	8.67	8.81	90900
		5	8.94	8.87	9.01	56600
Aroclor 1248	0.200	*1	9.39	9.32	9.46	141000
		*2	10.05	9.98	10.12	184000
		*3	11.45	11.38	11.52	158000
		4	11.62	11.55	11.69	149000
		5	12.37	12.30	12.44	158000
Aroclor 1254	0.200	*1	11.65	11.58	11.72	140000
		*2	12.62	12.55	12.69	215000
		*3	14.57	14.50	14.64	256000
		4	16.19	16.12	16.26	297000
		5	20.25	20.18	20.32	272000
Aroclor 1260	0.200	*1	17.89	17.82	17.96	336000
		*2	24.12	24.05	24.19	213000
		*3	25.84	25.77	25.91	335000
		4	27.22	27.15	27.29	153000
		5	29.77	29.70	29.84	116000

* Denotes required peaks

6G

PESTICIDE ANALYTE RESOLUTION SUMMARY

000221

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column (1): RTX-35 ID: 0.53(mm) Instrument ID (1): HP3F

EPA Sample No. (Standard 1): RESC1F Lab Sample ID (1): EPA1-8-A1F

Date Analyzed (1): 04/14/96 Time Analyzed (1): 1306

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.87	100.0
02	gamma-Chlordane	13.69	100.0
03	Endosulfan I	14.15	100.0
04	4,4'-DDE	14.60	100.0
05	Dieldrin	14.92	100.0
06	Endosulfan sulfate	17.52	100.0
07	Methoxychlor	19.39	100.0
08	Endrin ketone	20.11	100.0
09	Decachlorobiphenyl	27.62	

3F bm 4/29/96

~~F3~~ bm 4/29/96

GC Column (2): DB-5 ID: 0.53(mm) Instrument ID (2): HPF3

EPA Sample No. (Standard 2): RESCF1 Lab Sample ID (2): EPA1-8-AF1

Date Analyzed (2): 04/23/96 Time Analyzed (2): 1241

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.81	100.0
02	gamma-Chlordane	12.41	100.0
03	Endosulfan I	13.03	100.0
04	4,4'-DDE	14.11	87.0
05	Dieldrin	14.39	100.0
06	Endosulfan sulfate	19.52	100.0
07	Endrin ketone	23.84	100.0
08	Methoxychlor	25.13	100.0
09	Decachlorobiphenyl	33.20	

6H

PERFORMANCE EVALUATION MIXTURE (PEM)

000222

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column (1): RTX-35 ID: 0.53(mm) Instrument ID (1): HP3F

EPA Sample No. (Standard 1): PEM1F Lab Sample ID (1): EPA1-9-A1F

Date Analyzed (1): 04/14/96 Time Analyzed (1): 1342

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.87	100.0
02	alpha-BHC	8.70	100.0
03	gamma-BHC (Lindane)	9.76	97.0
04	beta-BHC	9.94	100.0
05	Endrin	15.80	100.0
06	4,4'-DDT	16.81	100.0
07	Methoxychlor	19.39	100.0
08	Decachlorobiphenyl	27.62	

GC Column (2): RTX-35 ID: 0.53(mm) Instrument ID (2): HP3F

EPA Sample No. (Standard 2): PEM2F Lab Sample ID (2): EPA1-9-A2F

Date Analyzed (2): 04/15/96 Time Analyzed (2): 0417

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.86	100.0
02	alpha-BHC	8.69	100.0
03	gamma-BHC (Lindane)	9.75	94.0
04	beta-BHC	9.94	100.0
05	Endrin	15.80	100.0
06	4,4'-DDT	16.81	100.0
07	Methoxychlor	19.38	100.0
08	Decachlorobiphenyl	27.60	100.0

PERFORMANCE EVALUATION MIXTURE (PEM)

ab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column (1): DB-5 ID: 0.53(mm) Instrument ID (1): ~~HPF3~~ 3F 4/24/96

EPA Sample No. (Standard 1): PEMF1 Lab Sample ID (1): EPA1-9-AF1

Date Analyzed (1): 04/23/96 Time Analyzed (1): 1321

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.81	100.0
02	alpha-BHC	6.61	100.0
03	beta-BHC	7.11	94.0
04	gamma-BHC (Lindane)	7.28	100.0
05	Endrin	15.70	100.0
06	4,4'-DDT	19.87	100.0
07	Methoxychlor	25.12	100.0
08	Decachlorobiphenyl	33.20	100.0

GC Column (2): DB-5 ID: 0.53(mm) Instrument ID (2): ~~HPF3~~ 3F 4/24/96

EPA Sample No. (Standard 2): PEMF2 Lab Sample ID (2): EPA1-9-AF2

Date Analyzed (2): 04/24/96 Time Analyzed (2): 0427

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.79	100.0
02	alpha-BHC	6.59	100.0
03	beta-BHC	7.09	92.0
04	gamma-BHC (Lindane)	7.26	100.0
05	Endrin	15.65	100.0
06	4,4'-DDT	19.81	100.0
07	Methoxychlor	25.08	100.0
08	Decachlorobiphenyl	33.16	100.0

INDIVIDUAL STANDARD MIXTURE A

000224

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column (1): RTX-35 ID: 0.53(mm) Instrument ID (1): HP3F

EPA Sample No. (Standard 1): INDAM1F Lab Sample ID (1): EPA1-12-A1F

Date Analyzed (1): 04/14/96 Time Analyzed (1): 2212

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.87	100.0
02	alpha-BHC	8.70	100.0
03	gamma-BHC (Lindane)	9.76	100.0
04	Heptachlor	10.85	100.0
05	Endosulfan I	14.16	100.0
06	Dieldrin	14.92	100.0
07	Endrin	15.81	97.0
08	4,4'-DDD	15.99	100.0
09	4,4'-DDT	16.82	100.0
10	Methoxychlor	19.39	100.0
11	Decachlorobiphenyl	27.63	100.0

GC Column (2): RTX-35 ID: 0.53(mm) Instrument ID (2): HP3F 4/20/96

EPA Sample No. (Standard 2): INDAM2F Lab Sample ID (2): EPA1-12-A2F

Date Analyzed (2): 04/15/96 Time Analyzed (2): 0908

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.86	100.0
02	alpha-BHC	8.69	100.0
03	gamma-BHC (Lindane)	9.75	100.0
04	Heptachlor	10.84	100.0
05	Endosulfan I	14.14	100.0
06	Dieldrin	14.91	100.0
07	Endrin	15.79	96.0
08	4,4'-DDD	15.98	100.0
09	4,4'-DDT	16.80	100.0
10	Methoxychlor	19.37	100.0
11	Decachlorobiphenyl	27.58	100.0

INDIVIDUAL STANDARD MIXTURE A

000225

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column (1): DB-5 ID: 0.53(mm) Instrument ID (1): HPF3 3F

EPA Sample No. (Standard 1): INDAMF1 Lab Sample ID (1): EPA1-12-AF1

Date Analyzed (1): 04/23/96 Time Analyzed (1): 2233

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.80	100.0
02	alpha-BHC	6.60	100.0
03	gamma-BHC (Lindane)	7.26	100.0
04	Heptachlor	8.96	100.0
05	Endosulfan I	13.00	100.0
06	Dieldrin	14.36	100.0
07	Endrin	15.66	100.0
08	4,4'-DDD	16.74	100.0
09	4,4'-DDT	19.83	100.0
10	Methoxychlor	25.09	100.0
11	Decachlorobiphenyl	33.17	100.0

C Column (2): DB-5 ID: 0.53(mm) Instrument ID (2): HPF3

EPA Sample No. (Standard 2): INDAMF2 Lab Sample ID (2): EPA1-12-AF2

Date Analyzed (2): 04/24/96 Time Analyzed (2): 1640

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.80	100.0
02	alpha-BHC	6.59	100.0
03	gamma-BHC (Lindane)	7.26	100.0
04	Heptachlor	8.95	100.0
05	Endosulfan I	12.99	100.0
06	Dieldrin	14.34	100.0
07	Endrin	15.64	100.0
08	4,4'-DDD	16.72	100.0
09	4,4'-DDT	19.80	100.0
10	Methoxychlor	25.07	100.0
11	Decachlorobiphenyl	33.14	100.0

INDIVIDUAL STANDARD MIXTURE B

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column (1): RTX-35 ID: 0.53(mm) Instrument ID (1): HP3F

EPA Sample No. (Standard 1): INDBM1F Lab Sample ID (1): EPA1-16-A1F

Date Analyzed (1): 04/14/96 Time Analyzed (1): 2325

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.87	100.0
02	beta-BHC	9.95	100.0
03	delta-BHC	10.92	100.0
04	Aldrin	11.76	100.0
05	Heptachlor epoxide	13.19	100.0
06	gamma-Chlordane	13.69	100.0
07	alpha-Chlordane	14.08	100.0
08	4,4'-DDE	14.60	100.0
09	Endosulfan II	16.25	100.0
10	Endrin aldehyde	17.04	100.0
11	Endosulfan sulfate	17.52	100.0
12	Endrin ketone	20.12	100.0
13	Decachlorobiphenyl	27.63	100.0

GC Column (2): RTX-35 ID: 0.53(mm) Instrument ID (2): HP3F

nb 4/20/96

EPA Sample No. (Standard 2): INDBM2F Lab Sample ID (2): EPA1-16-A2F

Date Analyzed (2): 04/15/96 Time Analyzed (2): 1021

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.86	100.0
02	beta-BHC	9.93	100.0
03	delta-BHC	10.91	100.0
04	Aldrin	11.75	100.0
05	Heptachlor epoxide	13.17	100.0
06	gamma-Chlordane	13.67	100.0
07	alpha-Chlordane	14.07	100.0
08	4,4'-DDE	14.59	100.0
09	Endosulfan II	16.23	100.0
10	Endrin aldehyde	17.02	100.0
11	Endosulfan sulfate	17.50	100.0
12	Endrin ketone	20.09	100.0
13	Decachlorobiphenyl	27.58	100.0

INDIVIDUAL STANDARD MIXTURE B

000227

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column (1): DB-5 ID: 0.53(mm) Instrument ID (1): HPF3 3F for 4/29/96

EPA Sample No. (Standard 1): INDBMF1 Lab Sample ID (1): EPA1-16-AF1

Date Analyzed (1): 04/23/96 Time Analyzed (1): 2312

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.80	100.0
02	beta-BHC	7.09	100.0
03	delta-BHC	7.70	100.0
04	Aldrin	10.01	100.0
05	Heptachlor epoxide	11.39	100.0
06	gamma-Chlordane	12.38	100.0
07	alpha-Chlordane	13.10	100.0
08	4,4'-DDE	14.08	100.0
09	Endosulfan II	16.22	100.0
10	Endrin aldehyde	17.54	100.0
11	Endosulfan sulfate	19.47	100.0
12	Endrin ketone	23.79	100.0
13	Decachlorobiphenyl	33.16	100.0

ns 4/26/96

GC Column (2): DB-5 ID: 0.53(mm) Instrument ID (2): HPF3

EPA Sample No. (Standard 2): INDBMF2 Lab Sample ID (2): EPA1-16-AF2

Date Analyzed (2): 04/24/96 Time Analyzed (2): 1719

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	5.79	100.0
02	beta-BHC	7.08	100.0
03	delta-BHC	7.69	100.0
04	Aldrin	9.99	100.0
05	Heptachlor epoxide	11.37	100.0
06	gamma-Chlordane	12.36	100.0
07	alpha-Chlordane	13.07	100.0
08	4,4'-DDE	14.05	100.0
09	Endosulfan II	16.18	100.0
10	Endrin aldehyde	17.50	100.0
11	Endosulfan sulfate	19.42	100.0
12	Endrin ketone	23.74	100.0
13	Decachlorobiphenyl	33.14	100.0

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK0F Date Analyzed : 04/14/96

Lab Sample ID (PIBLK): EPA1-7-A0F Time Analyzed : 1300

EPA Sample No. (PEM): PEM1F Date Analyzed : 04/14/96

Lab Sample ID (PEM): EPA1-9-A1F Time Analyzed : 1342

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.70	8.65	8.75	0.019	0.020	-5.0
beta-BHC	9.94	9.89	9.99	0.019	0.020	-5.0
gamma-BHC (Lindane)	9.76	9.71	9.81	0.019	0.020	-5.0
Endrin	15.80	15.73	15.87	0.110	0.100	10.0
4,4'-DDT	16.81	16.75	16.89	0.241	0.200	20.5
Methoxychlor	19.39	19.32	19.46	0.593	0.500	18.6

4,4'-DDT % breakdown (1): 1.7 Endrin % breakdown (1): 0.0

Combined % breakdown (1): 1.7

PESTICIDE CALIBRATION VERIFICATION SUMMARY 000229

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK1F Date Analyzed : 04/15/96

Lab Sample ID (PIBLK): EPA1-7-A1F Time Analyzed : 0304

EPA Sample No. (PEM): PEM2F Date Analyzed : 04/15/96

Lab Sample ID (PEM): EPA1-9-A2F Time Analyzed : 0417

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.69	8.65	8.75	0.018	0.020	-10.0
beta-BHC	9.94	9.89	9.99	0.019	0.020	-5.0
gamma-BHC (Lindane)	9.75	9.71	9.81	0.020	0.020	0.0
Endrin	15.80	15.73	15.87	0.105	0.100	5.0
4,4'-DDT	16.81	16.75	16.89	0.218	0.200	9.0
Methoxychlor	19.38	19.32	19.46	0.593	0.500	18.6

4,4'-DDT % breakdown (1): 0.6 Endrin % breakdown (1): 0.0

Combined % breakdown (1): 0.6

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK3F Date Analyzed : 04/15/96

Lab Sample ID (PIBLK): EPA1-7-A3F Time Analyzed : 1947

EPA Sample No. (PEM): PEM3F Date Analyzed : 04/15/96

Lab Sample ID (PEM): EPA1-9-A3F Time Analyzed : 2058

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.68	8.65	8.75	0.018	0.020	-10.0
beta-BHC	9.93	9.89	9.99	0.018	0.020	-10.0
gamma-BHC (Lindane)	9.75	9.71	9.81	0.020	0.020	0.0
Endrin	15.79	15.73	15.87	0.104	0.100	4.0
4,4'-DDT	16.80	16.75	16.89	0.206	0.200	3.0
Methoxychlor	19.36	19.32	19.46	0.498	0.500	-0.4

4,4'-DDT % breakdown (1): 1.0 Endrin % breakdown (1): 0.0

Combined % breakdown (1): 1.0

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: DB-5 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

EPA Sample No. (PIBLK): PIBLKF0 Date Analyzed : 04/23/96

Lab Sample ID (PIBLK): EPA1-7-AF0 Time Analyzed : 1200

EPA Sample No. (PEM): PEMF1 Date Analyzed : 04/23/96

Lab Sample ID (PEM): EPA1-9-AF1 Time Analyzed : 1321

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	6.61	6.55	6.65	0.019	0.020	-5.0
beta-BHC	7.11	7.04	7.14	0.020	0.020	0.0
gamma-BHC (Lindane)	7.28	7.21	7.31	0.019	0.020	-5.0
Endrin	15.70	15.59	15.73	0.117	0.100	17.0
4,4'-DDT	19.87	19.75	19.89	0.194	0.200	-3.0
Methoxychlor	25.12	25.02	25.16	0.448	0.500	-10.4

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown (1): 5.4

Combined % breakdown (1): 5.4

PESTICIDE CALIBRATION VERIFICATION SUMMARY 000232

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: DB-5 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

EPA Sample No. (PIBLK): PIBLKF1 Date Analyzed : 04/24/96

Lab Sample ID (PIBLK): EPA1-7-AF1 Time Analyzed : 0348

EPA Sample No. (PEM): PEMF2 Date Analyzed : 04/24/96

Lab Sample ID (PEM): EPA1-9-AF2 Time Analyzed : 0427

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	6.59	6.55	6.65	0.017	0.020	-15.0
beta-BHC	7.09	7.04	7.14	0.020	0.020	0.0
gamma-BHC (Lindane)	7.26	7.21	7.31	0.018	0.020	-10.0
Endrin	15.65	15.59	15.73	0.096	0.100	-4.0
4,4'-DDT	19.81	19.75	19.89	0.196	0.200	-2.0
Methoxychlor	25.08	25.02	25.16	0.450	0.500	-10.0

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

Combined % breakdown (1): 0.0

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK2F Date Analyzed : 04/15/96

Lab Sample ID (PIBLK): EPA1-7-A2F Time Analyzed : 0755

EPA Sample No. (INDA): INDAM2F Date Analyzed : 04/15/96

Lab Sample ID (INDA): EPA1-12-A2F Time Analyzed : 0908

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.69	8.65	8.75	0.0386	0.0400	-3.5
gamma-BHC (Lindane)	9.75	9.71	9.81	0.0402	0.0400	0.5
Heptachlor	10.84	10.80	10.90	0.0406	0.0400	1.5
Endosulfan I	14.14	14.09	14.23	0.0390	0.0400	-2.5
Dieldrin	14.91	14.85	14.99	0.0803	0.0800	0.4
Endrin	15.79	15.73	15.87	0.0889	0.0800	11.1
4,4'-DDD	15.98	15.92	16.06	0.0769	0.0800	-3.9
4,4'-DDT	16.80	16.75	16.89	0.0779	0.0800	-2.6
Methoxychlor	19.37	19.32	19.46	0.404	0.400	1.0
Tetrachloro-m-xylene	6.86	6.82	6.92	0.0396	0.0400	-1.0
Decachlorobiphenyl	27.58	27.53	27.73	0.0792	0.0800	-1.0

EPA Sample No. (INDB): INDBM2F Date Analyzed : 04/15/96

Lab Sample ID (INDB): EPA1-16-A2F Time Analyzed : 1021

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	9.93	9.89	9.99	0.0405	0.0400	1.2
delta-BHC	10.91	10.87	10.97	0.0418	0.0400	4.5
Aldrin	11.75	11.71	11.81	0.0409	0.0400	2.2
Heptachlor epoxide	13.17	13.12	13.26	0.0412	0.0400	3.0
4,4'-DDE	14.59	14.53	14.67	0.0930	0.0800	16.2
Endosulfan II	16.23	16.18	16.32	0.0827	0.0800	3.4
Endosulfan sulfate	17.50	17.45	17.59	0.0853	0.0800	6.6
Endrin ketone	20.09	20.04	20.18	0.0832	0.0800	4.0
Endrin aldehyde	17.02	16.97	17.11	0.0873	0.0800	9.1
alpha-Chlordane	14.07	14.01	14.15	0.0387	0.0400	-3.2
gamma-Chlordane	13.67	13.62	13.76	0.0393	0.0400	-1.8
Tetrachloro-m-xylene	6.86	6.82	6.92	0.0428	0.0400	7.0
Decachlorobiphenyl	27.58	27.53	27.73	0.0906	0.0800	13.2

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK4F Date Analyzed : 04/16/96

Lab Sample ID (PIBLK): EPA1-7-A4F Time Analyzed : 0515

EPA Sample No. (INDA): INDAM3F Date Analyzed : 04/16/96

Lab Sample ID (INDA): EPA1-12-A3F Time Analyzed : 0550

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.68	8.65	8.75	0.0373	0.0400	-6.8
gamma-BHC (Lindane)	9.74	9.71	9.81	0.0378	0.0400	-5.5
Heptachlor	10.83	10.80	10.90	0.0415	0.0400	3.8
Endosulfan I	14.13	14.09	14.23	0.0410	0.0400	2.5
Dieldrin	14.90	14.85	14.99	0.0792	0.0800	-1.0
Endrin	15.78	15.73	15.87	0.0831	0.0800	3.9
4,4'-DDD	15.97	15.92	16.06	0.0814	0.0800	1.8
4,4'-DDT	16.79	16.75	16.89	0.0894	0.0800	11.8
Methoxychlor	19.36	19.32	19.46	0.477	0.400	19.2
Tetrachloro-m-xylene	6.85	6.82	6.92	0.0392	0.0400	-2.0
Decachlorobiphenyl	27.55	27.53	27.73	0.0780	0.0800	-2.5

EPA Sample No. (INDB): INDBM3F Date Analyzed : 04/16/96

Lab Sample ID (INDB): EPA1-16-A3F Time Analyzed : 0702

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	9.93	9.89	9.99	0.0403	0.0400	0.8
delta-BHC	10.90	10.87	10.97	0.0416	0.0400	4.0
Aldrin	11.74	11.71	11.81	0.0428	0.0400	7.0
Heptachlor epoxide	13.17	13.12	13.26	0.0403	0.0400	0.8
4,4'-DDE	14.58	14.53	14.67	0.0828	0.0800	3.5
Endosulfan II	16.23	16.18	16.32	0.0816	0.0800	2.0
Endosulfan sulfate	17.49	17.45	17.59	0.0896	0.0800	12.0
Endrin ketone	20.08	20.04	20.18	0.0850	0.0800	6.2
Endrin aldehyde	17.02	16.97	17.11	0.0906	0.0800	13.2
alpha-Chlordane	14.06	14.01	14.15	0.0393	0.0400	-1.8
gamma-Chlordane	13.67	13.62	13.76	0.0400	0.0400	0.0
Tetrachloro-m-xylene	6.85	6.82	6.92	0.0415	0.0400	3.8
Decachlorobiphenyl	27.56	27.53	27.73	0.0846	0.0800	5.8

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: DB-5 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

EPA Sample No. (PIBLK): PIBLKF2 Date Analyzed : 04/24/96

Lab Sample ID (PIBLK): EPA1-7-AF2 Time Analyzed : 1414

EPA Sample No. (INDA): INDAMF2 Date Analyzed : 04/24/96

Lab Sample ID (INDA): EPA1-12-AF2 Time Analyzed : 1640

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	6.59	6.55	6.65	0.0466	0.0400	16.5
gamma-BHC (Lindane)	7.26	7.21	7.31	0.0459	0.0400	14.8
Heptachlor	8.95	8.91	9.01	0.0457	0.0400	14.2
Endosulfan I	12.99	12.93	13.07	0.0423	0.0400	5.8
Dieldrin	14.34	14.29	14.43	0.0973	0.0800	21.6
Endrin	15.64	15.59	15.73	0.0930	0.0800	16.2
4,4'-DDD	16.72	16.67	16.81	0.0994	0.0800	24.2
4,4'-DDT	19.80	19.75	19.89	0.0929	0.0800	16.1
Methoxychlor	25.07	25.02	25.16	0.433	0.400	8.2
Tetrachloro-m-xylene	5.80	5.75	5.85	0.0465	0.0400	16.2
Decachlorobiphenyl	33.14	33.07	33.27	0.0896	0.0800	12.0

EPA Sample No. (INDB): INDBMF2 Date Analyzed : 04/24/96

Lab Sample ID (INDB): EPA1-16-AF2 Time Analyzed : 1719

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	7.08	7.04	7.14	0.0442	0.0400	10.5
delta-BHC	7.69	7.65	7.75	0.0432	0.0400	8.0
Aldrin	9.99	9.96	10.06	0.0438	0.0400	9.5
Heptachlor epoxide	11.37	11.32	11.46	0.0432	0.0400	8.0
4,4'-DDE	14.05	14.01	14.15	0.0899	0.0800	12.4
Endosulfan II	16.18	16.15	16.29	0.0864	0.0800	8.0
Endosulfan sulfate	19.42	19.40	19.54	0.0853	0.0800	6.6
Endrin ketone	23.74	23.72	23.86	0.0890	0.0800	11.2
Endrin aldehyde	17.50	17.47	17.61	0.0822	0.0800	2.8
alpha-Chlordane	13.07	13.03	13.17	0.0429	0.0400	7.2
gamma-Chlordane	12.36	12.31	12.45	0.0415	0.0400	3.8
Tetrachloro-m-xylene	5.79	5.75	5.85	0.0438	0.0400	9.5
Decachlorobiphenyl	33.14	33.07	33.27	0.0890	0.0800	11.2

8D
PESTICIDE ANALYTICAL SEQUENCE

000236

Lab Name: AATSLA Contract: 68-D5-0023

Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

Instrument ID: HP3F

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.87 DCB: 27.63

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
~~01~~	~~PIBLK0F~~	~~EPA1-7-A0F~~	~~04/14/96~~	~~1300~~	~~6.87~~	~~27.62~~
02	RESC1F	EPA1-8-A1F	04/14/96	1306	6.87	27.62
03	PEM1F	EPA1-9-A1F	04/14/96	1342	6.87	27.62
04	AR16601F	EPA1-20-A1F	04/14/96	1455	6.87	27.62
05	AR12211F	EPA1-22-A1F	04/14/96	1532	6.87	27.62
06	AR12321F	EPA1-24-A1F	04/14/96	1608	6.87	27.62
07	AR12421F	EPA1-26-A1F	04/14/96	1644	6.87	27.62
08	AR12481F	EPA1-28-A1F	04/14/96	1721	6.87	27.62
09	AR12541F	EPA1-30-A1F	04/14/96	1757	6.87	27.62
10	TOXAPH1F	EPA1-32-A1F	04/14/96	1834	6.87	27.62
11	INDAL1F	EPA1-11-A1F	04/14/96	1910	6.87	27.62
12	INDBL1F	EPA1-15-A1F	04/14/96	2059	6.87	27.63
13	INDAM1F	EPA1-12-A1F	04/14/96	2212	6.87	27.63
14	INDBM1F	EPA1-16-A1F	04/14/96	2325	6.87	27.63
15	INDAH1F	EPA1-13-A1F	04/15/96	0002	6.87	27.63
16	INDBH1F	EPA1-17-A1F	04/15/96	0151	6.86	27.61
17	PIBLK1F	EPA1-7-A1F	04/15/96	0304	6.86	27.60
18	PEM2F	EPA1-9-A2F	04/15/96	0417	6.86	27.60
19	PIBLK2F	EPA1-7-A2F	04/15/96	0755	6.86	27.58
20	INDAM2F	EPA1-12-A2F	04/15/96	0908	6.86	27.58
21	INDBM2F	EPA1-16-A2F	04/15/96	1021	6.86	27.58
22	PBLK1	032896G	04/15/96	1503	6.86	27.58
23	FER43	15410_01	04/15/96	1649	6.86	27.56
24	FER43MS	15410_02MS	04/15/96	1725	6.85	27.56
25	FER43MSD	15410_03MSD	04/15/96	1800	6.86	27.57
26	FER57	15410_04	04/15/96	1836	6.86	27.57
27	FER58	15410_05	04/15/96	1911	6.85	27.57
28	PIBLK3F	EPA1-7-A3F	04/15/96	1947	6.85	27.57
29	PEM3F	EPA1-9-A3F	04/15/96	2058	6.85	27.56
30	FER61	15410_06	04/15/96	2209	6.85	27.56
31	FER62	15410_07	04/15/96	2244	6.85	27.57
32	PIBLK4F	EPA1-7-A4F	04/16/96	0515	6.85	27.56

nd 4/26/96

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

PESTICIDE ANALYTICAL SEQUENCE

000237

Lab Name: AATSLA Contract: 68-D5-0023

Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

Instrument ID: HP3F

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.87 DCB: 27.63

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	INDAM3F	EPA1-12-A3F	04/16/96	0550	6.85	27.55
02	INDBM3F	EPA1-16-A3F	04/16/96	0702	6.85	27.56
~~03~~	~~PIBLK5F~~	~~EPA1-7-A5F~~	~~04/16/96~~	~~1443~~	~~6.85~~	~~27.55~~
~~04~~	~~PEM4F~~	~~EPA1-9-A4F~~	~~04/16/96~~	~~1554~~	~~6.85~~	~~27.55~~

nr 4/16/96

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8D

PESTICIDE ANALYTICAL SEQUENCE

000238

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

GC Column: DB-5 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

Instrument ID: HPF~~3~~3F MW 4/29/96

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 5.80 DCB: 33.17

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
~~01~~	~~PIBLKF0~~	~~EPA1-7-AF0~~	~~04/23/96~~	~~1200~~	~~5.81~~	~~33.20~~
02	RESCF1	EPA1-8-AF1	04/23/96	1241	5.81	33.20
03	PEMF1	EPA1-9-AF1	04/23/96	1321	5.81	33.20
04	AR1660F1	EPA1-20-AF1	04/23/96	1439	5.80	33.20
05	AR1221F1	EPA1-22-AF1	04/23/96	1519	5.80	33.19
06	AR1232F1	EPA1-24-AF1	04/23/96	1558	5.80	33.19
07	AR1242F1	EPA1-26-AF1	04/23/96	1638	5.80	33.19
08	AR1248F1	EPA1-28-AF1	04/23/96	1718	5.80	33.18
09	AR1254F1	EPA1-30-AF1	04/23/96	1757	5.80	33.18
10	TOXAPHF1	EPA1-32-AF1	04/23/96	1837	5.80	33.17
11	INDALF1	EPA1-11-AF1	04/23/96	1916	5.80	33.18
12	INDBLF1	EPA1-15-AF1	04/23/96	2035	5.80	33.18
13	INDAMF1	EPA1-12-AF1	04/23/96	2233	5.80	33.17
14	INDBMF1	EPA1-16-AF1	04/23/96	2312	5.80	33.16
15	INDAHF1	EPA1-13-AF1	04/24/96	0031	5.79	33.16
16	INDBHF1	EPA1-17-AF1	04/24/96	0150	5.80	33.16
17	PIBLKF1	EPA1-7-AF1	04/24/96	0348	5.79	33.16
18	PEMF2	EPA1-9-AF2	04/24/96	0427	5.79	33.16
19	PBLK1	032896G	04/24/96	0858	5.80	33.16
20	FER43	15410_01	04/24/96	0938	5.80	33.16
21	FER43MS	15410_02MS	04/24/96	1017	5.79	33.15
22	FER43MSD	15410_03MSD	04/24/96	1057	5.79	33.15
23	FER57	15410_04	04/24/96	1136	5.79	33.15
24	FER58	15410_05	04/24/96	1216	5.79	33.15
25	FER61	15410_06	04/24/96	1255	5.79	33.15
26	FER62	15410_07	04/24/96	1334	5.79	33.14
27	PIBLKF2	EPA1-7-AF2	04/24/96	1414	5.79	33.14
28	INDAMF2	EPA1-12-AF2	04/24/96	1640	5.80	33.14
29	INDBMF2	EPA1-16-AF2	04/24/96	1719	5.79	33.14

nb 4/29/96

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

9A

PESTICIDE FLORISIL CARTRIDGE CHECK

000239

Lab Name: AATSLA Contract: 68-D5-0023

Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Florisil Cartridge Lot Number: FLO942358 Date of Analysis: 10/18/95

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

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	0.020	0.0190	95	80-120
gamma-BHC (Lindane)	0.020	0.0184	92	80-120
Heptachlor	0.020	0.0201	100	80-120
Endosulfan I	0.020	0.0210	105	80-120
Dieldrin	0.040	0.0411	103	80-120
Endrin	0.040	0.0422	106	80-120
4,4'-DDD	0.040	0.0400	100	80-120
4,4'-DDT	0.040	0.0430	108	80-120
Methoxychlor	0.200	0.227	114	80-120
Tetrachloro-m-xylene	0.020	0.0202	101	80-120
Decachlorobiphenyl	0.040	0.0447	112	80-120

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

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK1	032896G	04/15/96	04/24/96
02	FER43	15410_01	04/15/96	04/24/96
03	FER57	15410_04	04/15/96	04/24/96
04	FER58	15410_05	04/15/96	04/24/96
05	FER61	15410_06	04/15/96	04/24/96
06	FER62	15410_07	04/15/96	04/24/96
07	FER43MS	15410_02MS	04/15/96	04/24/96
08	FER43MSD	15410_03MSD	04/15/96	04/24/96

10A

PESTICIDE IDENTIFICATION SUMMARY 000240

FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

FER43MS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Lab Sample ID : 15410_02MS Dates(s) Analyzed: 04/15/96 04/24/96

Instrument ID (1): HP3F Instrument ID (2): ~~HP3~~ 3F for 4/29/96

GC Column(1): RTX-35 ID: 0.53(mm) GC Column(2): DB-5 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	9.74	9.71	9.81	0.560	
	2	7.26	7.21	7.31	0.634	13.2
Heptachlor	1	10.83	10.80	10.90	0.501	
	2	8.95	8.91	9.01	0.540	7.8
Aldrin	1	11.74	11.71	11.81	0.440	
	2	10.00	9.96	10.06	0.522	18.6
Dieldrin	1	14.90	14.85	14.99	1.20	
	2	14.34	14.29	14.43	1.31	9.2
Endrin	1	15.78	15.73	15.87	1.24	
	2	15.65	15.59	15.73	1.38	11.3
4,4'-DDT	1	16.80	16.75	16.89	0.784	
	2	19.80	19.75	19.89	0.914	16.6

10A

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES 000241

EPA SAMPLE NO.

FER43MSD

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Lab Sample ID : 15410_03MSD Dates(s) Analyzed: 04/15/96 04/24/96

Instrument ID (1): HP3F Instrument ID (2): HPF3

GC Column(1): RTX-35 ID: 0.53(mm) GC Column(2): DB-5 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	9.75	9.71	9.81	0.445	
	2	7.26	7.21	7.31	0.505	13.5
Heptachlor	1	10.84	10.80	10.90	0.454	
	2	8.95	8.91	9.01	0.496	9.3
Aldrin	1	11.74	11.71	11.81	0.448	
	2	10.00	9.96	10.06	0.530	18.3
Dieldrin	1	14.90	14.85	14.99	0.998	
	2	14.34	14.29	14.43	1.10	10.2
Endrin	1	15.79	15.73	15.87	1.03	
	2	15.64	15.59	15.73	1.14	10.7
4,4'-DDT	1	16.80	16.75	16.89	0.864	
	2	19.80	19.75	19.89	1.03	19.2

External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3041496\003F0201.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-8-A|F
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~01~~ 13:06 PM
Report Created on: 15 Apr 96 12:11 PM
Last Recalib on : 15 Apr 96 12:11 PM
Multiplier : 1
Sample Info : RESC|F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 2
Instrument Method: EPAMTH_F.MTH
Analysis Method : RESC3F.MTH
Sample Amount : 0
ISTD Amount :

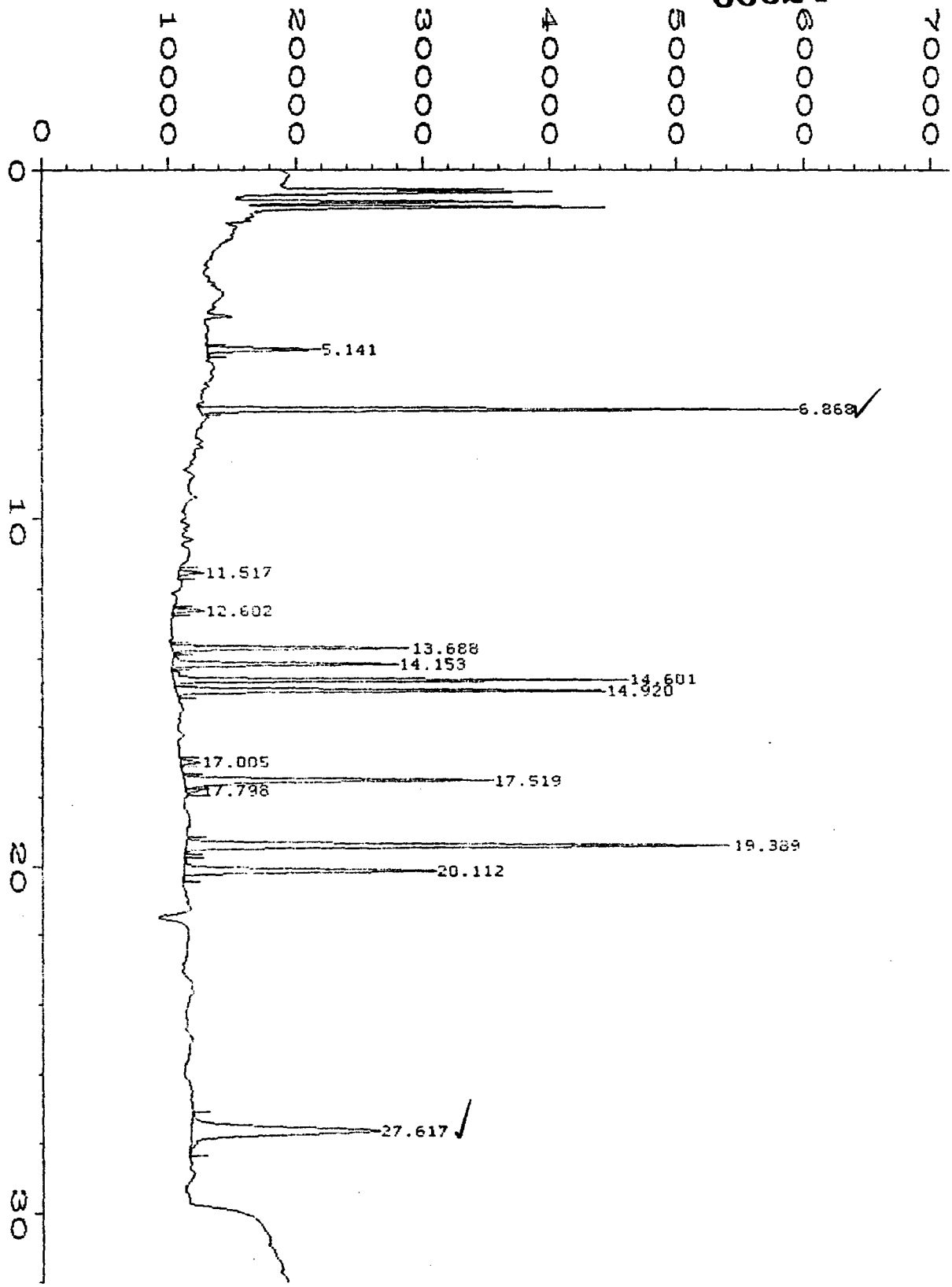
JDr 4/15/96

Sig. 1 in C:\HPCHEM\3\DATA\3041496\003F0201.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	211647	BV	0.070	1	0.0400	TCX
13.688	95798	BB	0.080	1	0.0200	g. CHLORDANE
14.153	96447	BV	0.083	1	0.0200	ENDOSULFAN I
14.601	168511	PV	0.072	1	0.0400	4,4'-DDE
14.920	169357	VB	0.078	1	0.0400	DIELDRIN
17.519	161860	BV	0.100	1	0.0400	ENDO. SULFATE
19.389	315784	BB	0.115	1	0.200	METHOXYCHLOR
20.112	147742	BB	0.117	1	0.0400	ENDRIN KETONE
27.617	235822	BB	0.245	1	0.0400	DCB

All calibration runs are copies
Originals maintained at RD
043096
Pages 000242 To 000340

000243



Data File Name : C:\HPCHEM\3\DATA\3041496\003F0201.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-8-A 1F
Run Time Bar Code:
Acquired on : 14 Apr 96 01:06 PM
Report Created on: 15 Apr 96 08:11 AM
Last Recalib on : 15 APR 96 06:01 AM
Multiplier : 1
Sample Info : RESC 1F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 2
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000244

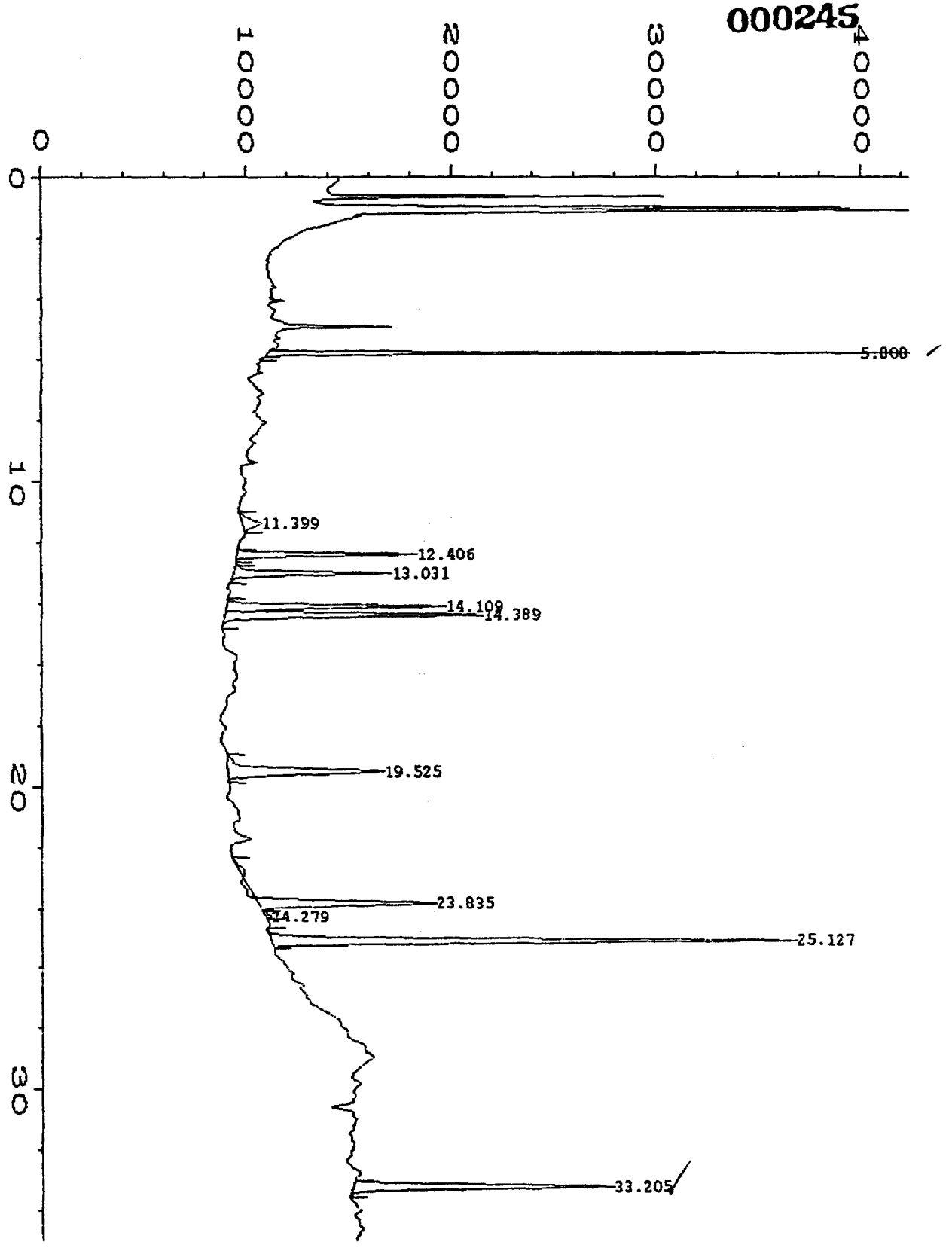
Data File Name : C:\HPCHEM\3\DATA\30423CAL\002F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-8-AF1
Run Time Bar Code:
Acquired on : 23 Apr 96 12:41 PM
Report Created on: 25 Apr 96 08:55 AM
Last Recalib on : 25 APR 96 08:50 AM
Multiplier : 1
Sample Info : RESCF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: EPADB5P.MTH
Analysis Method : RESC3F.MTH
Sample Amount : 0
ISTD Amount :

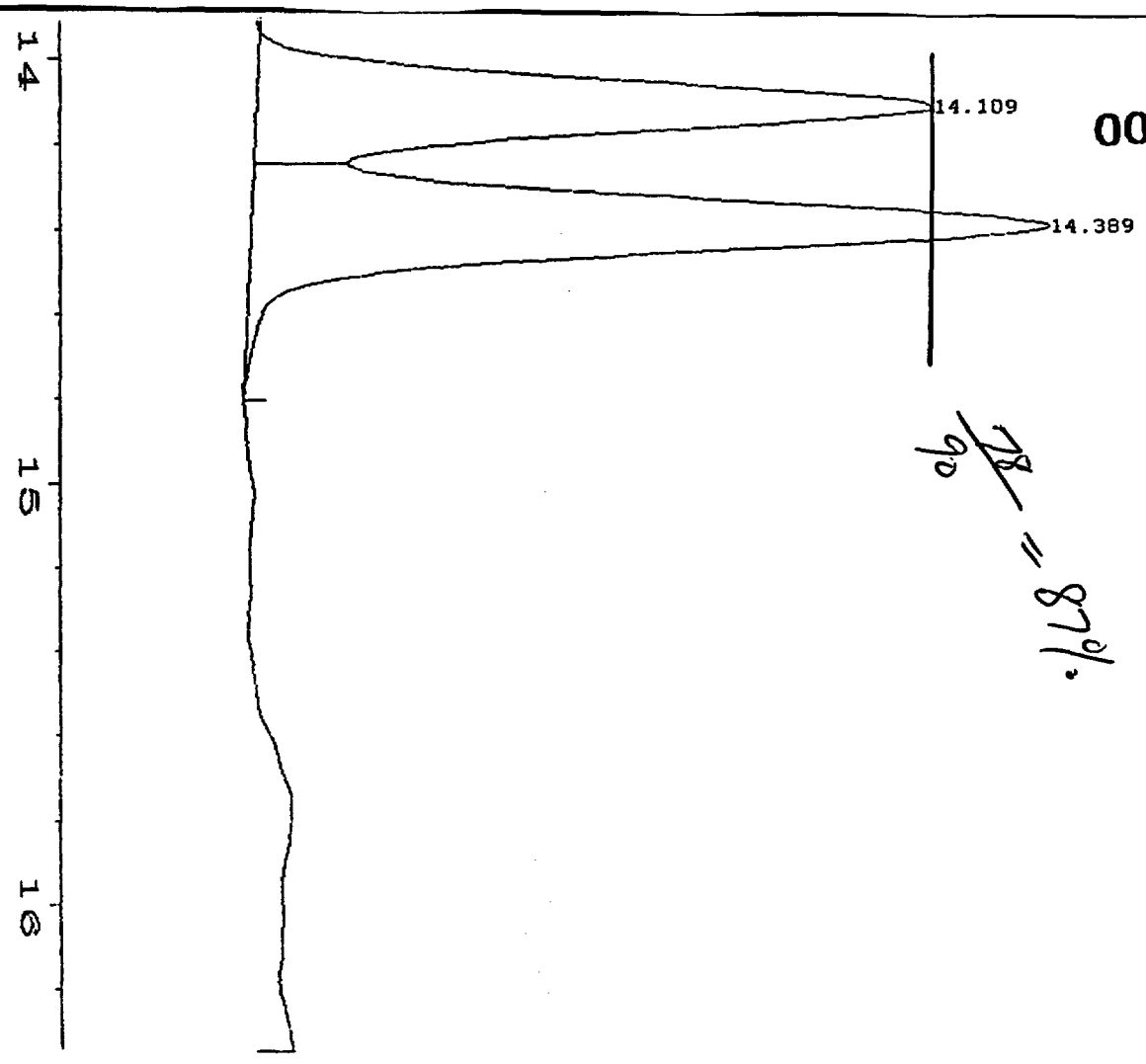
Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\002F0101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.808	110195	BB	0.054	1	0.0400	TCX
12.406	65401	BB	0.117	1	0.0200	g. CHLORDANE
13.031	63762	BB	0.126	1	0.0200	ENDOSULFAN I
14.109	89545	BV	0.131	1	0.0400	4,4'-DDE
14.389	114354	VB	0.142	1	0.0400	DIELDRIN
19.525	103874	BV	0.210	1	0.0400	ENDO. SULFATE
23.835	88831	BV	0.165	1	0.0400	ENDRIN KETONE
25.127	240226	BB	0.148	1	0.200	METHOXYCHLOR
33.205	126318	BB	0.158	1	0.0400	DCB

000245



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\002F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 2
Sample Name	: EPA1-8-AF1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 23 Apr 96 12:41 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 08:56 AM	Analysis Method	: RESC3F.MTH
Last Recalib on	: 25 APR 96 08:50 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: RESCF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M		

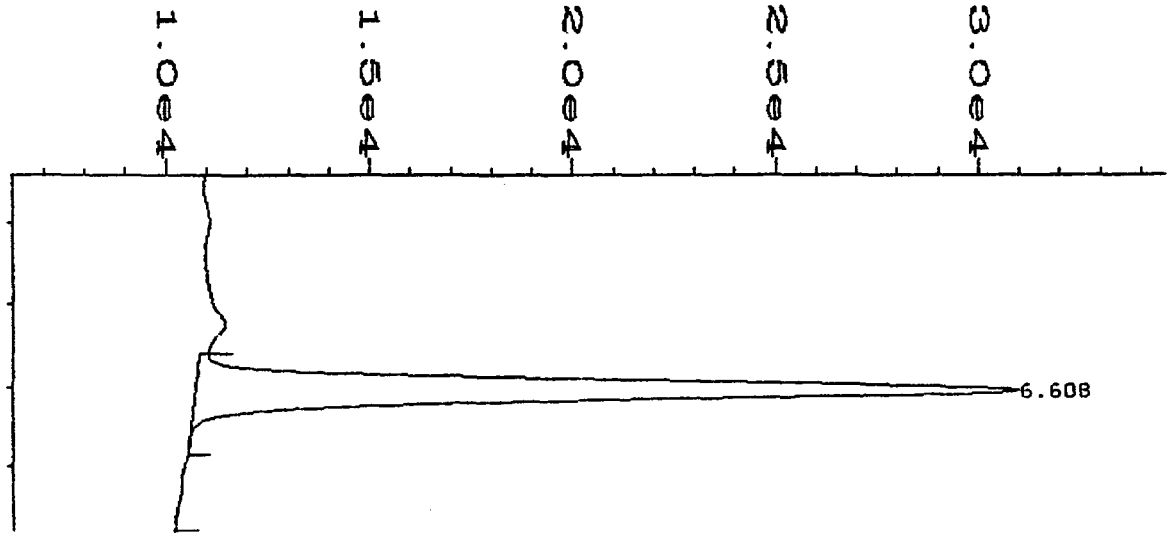


000246

78/90 = 87%

Data File Name	: C:\HPCHEM\3\DATA\30423CAL\002F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 2
Sample Name	: EPA1-8-AF1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 23 Apr 96 12:41 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 11:11 AM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

RESCF1, HP3F, DB-5, 0.53mm, 2μl, 30M



External Standard Report

000247

Data File Name : C:\HPCHEM\3\DATA\3041496\004F0301.D
Operator : DLP Pem 1F ETx-35 Page Number : 1
Instrument : HP3F 30m Vial Number : 4
Sample Name : EPA1-9-A1F 0.53 mm ID Injection Number : 1
Run Time Bar Code: 1P 2uL inj. Sequence Line : 3
Acquired on : 14 Apr 96 01:42 PM Instrument Method: EPAMTH_F.MTH
Report Created on: 15 Apr 96 07:10 PM 4/15/96 Analysis Method : PEM3F.MTH
Last Recalib on : 15 Apr 96 07:09 PM Sample Amount : 0
Multiplier : 1 ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\004F0301.D

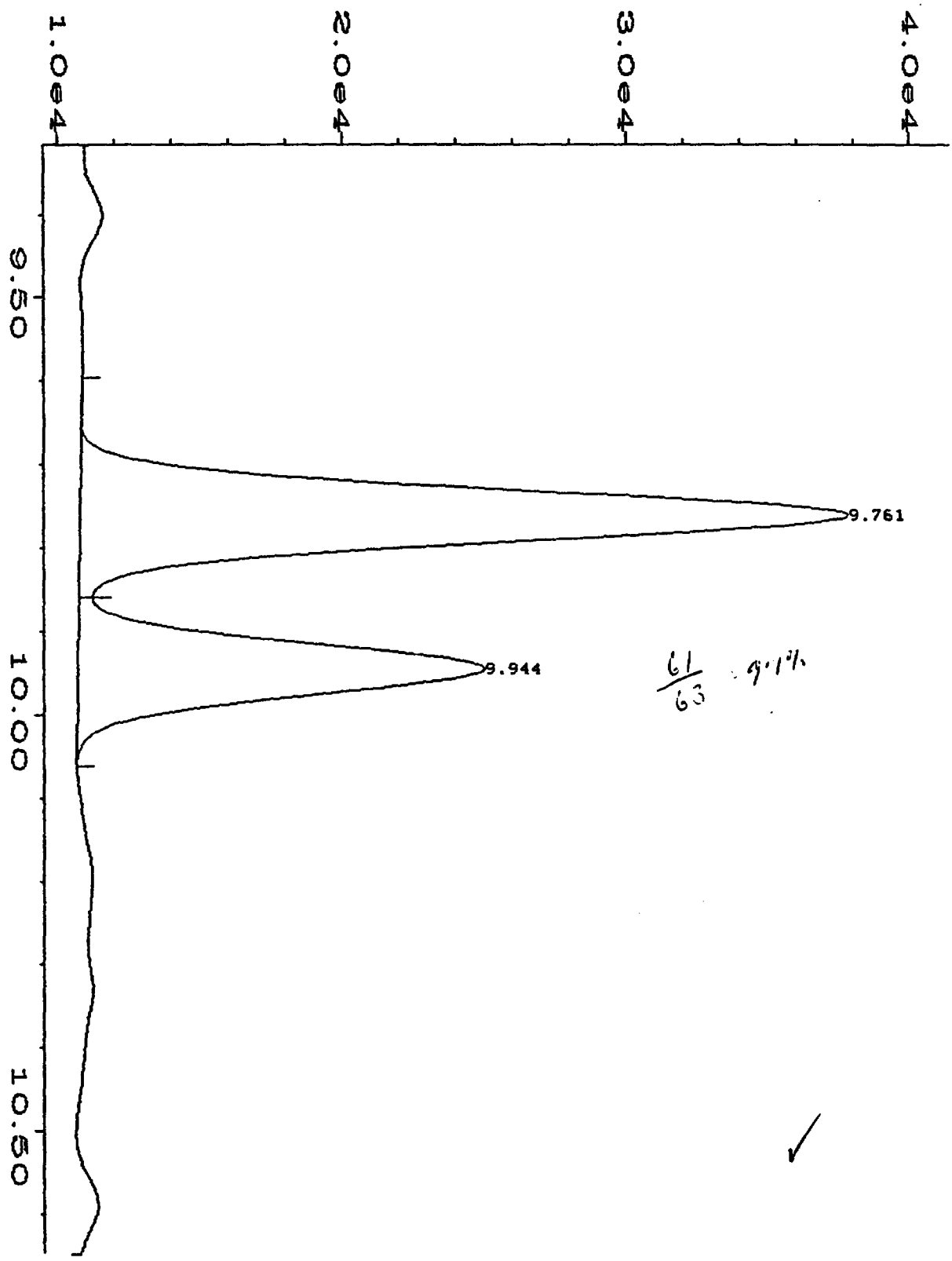
Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	213912	BV	0.071	1	0.0400	TCX
8.698	128101	BB	0.066	1	0.0200	alpha-BHC
9.761	118505	BV	0.068	1	0.0200	gamma-BHC
9.944	63397	VV	0.069	1	0.0200	beta-BHC
14.603	* not found *			1		4,4'-DDE
15.803	330255	PV	0.078	1	0.100	ENDRIN
15.991	8735	VV	0.084	1	0.000	4,4'-DDD
16.814	608087	VV	0.081	1	0.200	4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
19.387	699327	FM	0.125	1	0.500	METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.618	219829	BV	0.237	1	0.0400	DCB

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

User Modified

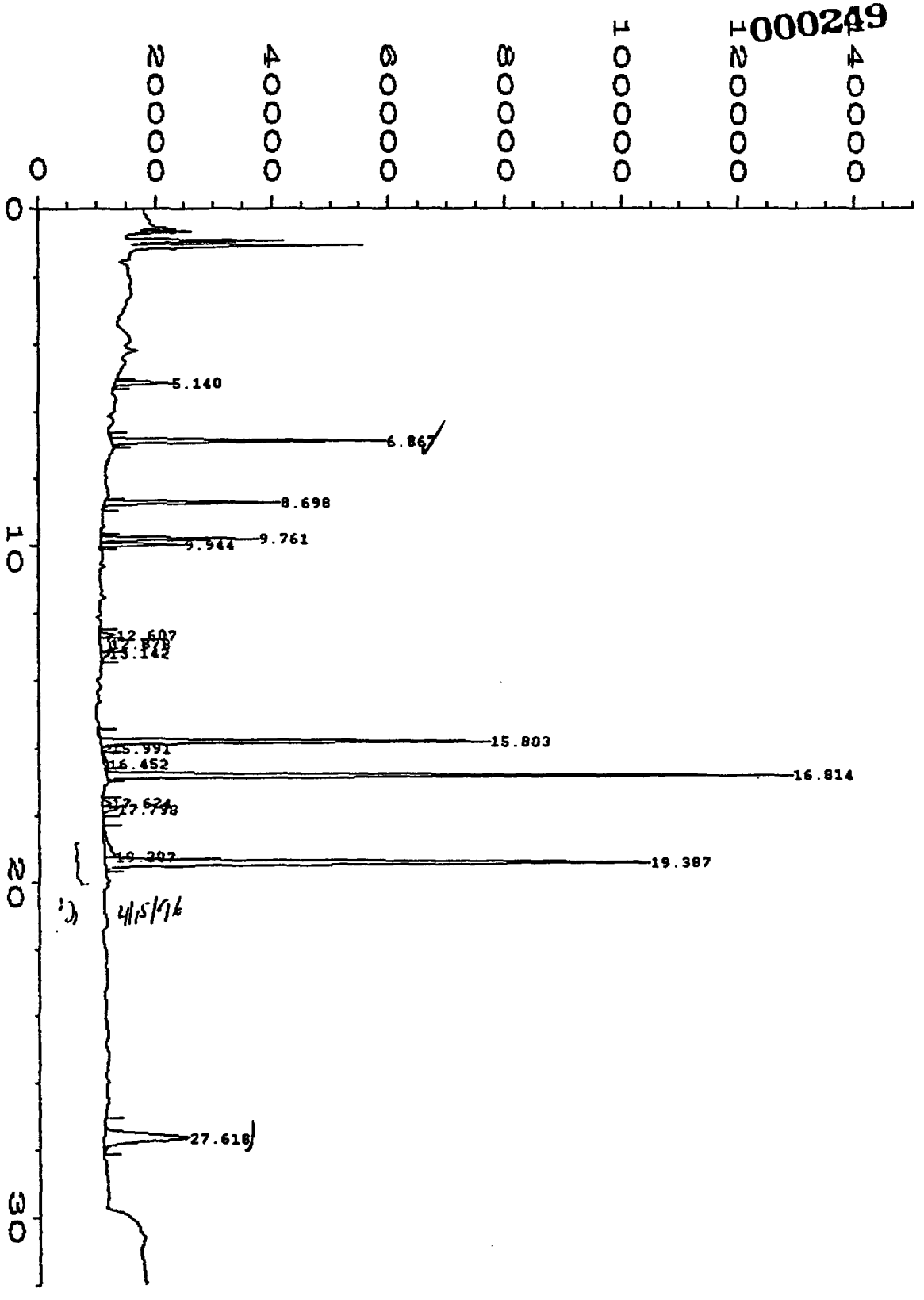
000248



61/63 = 96.8%

Data File Name	: C:\HPCHEM\3\DATA\3041496\004F0301.D		
Operator	: DLP PEM# RTx-35, 30m	Page Number	: 1
Instrument	: HP3F 0.53mm ID	Vial Number	: 4
Sample Name	: EPA1-9-A,F 2uL inj.	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 3
Acquired on	: 14 Apr 96 ~~01~~ 13 :42 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 06:49 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:

4/15/96



user modified

Data File Name	: C:\HPCHEM\3\DATA\3041496\004F0301.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 4
Sample Name	: EPA1-9-A1F	Injection Number	: 1
Time Bar Code:		Sequence Line	: 3
Acquired on	: 14 Apr 96 01:42 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 07:19 PM	Analysis Method	: PEM3F.MTH
Last Recalib on	: 15 Apr 96 07:09 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Pam 1F RTX-30 30 M 0.53 mm ID 2uL inj.

4/15/96

External Standard Report

000250

Data File Name : C:\HPCHEM\3\DATA\3041496\028F1801.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-9-A.2F
Run Time Bar Code:
Acquired on : 15 Apr 96 04:17 AM
Report Created on: 15 Apr 96 01:39 PM
Last Recalib on : 15 Apr 96 01:39 PM
Multiplier : 1
Sample Info : PEM.2F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 18
Instrument Method: EPAMTH_F.MTH
Analysis Method : PEM3F.MTH
Sample Amount : 0
ISTD Amount :

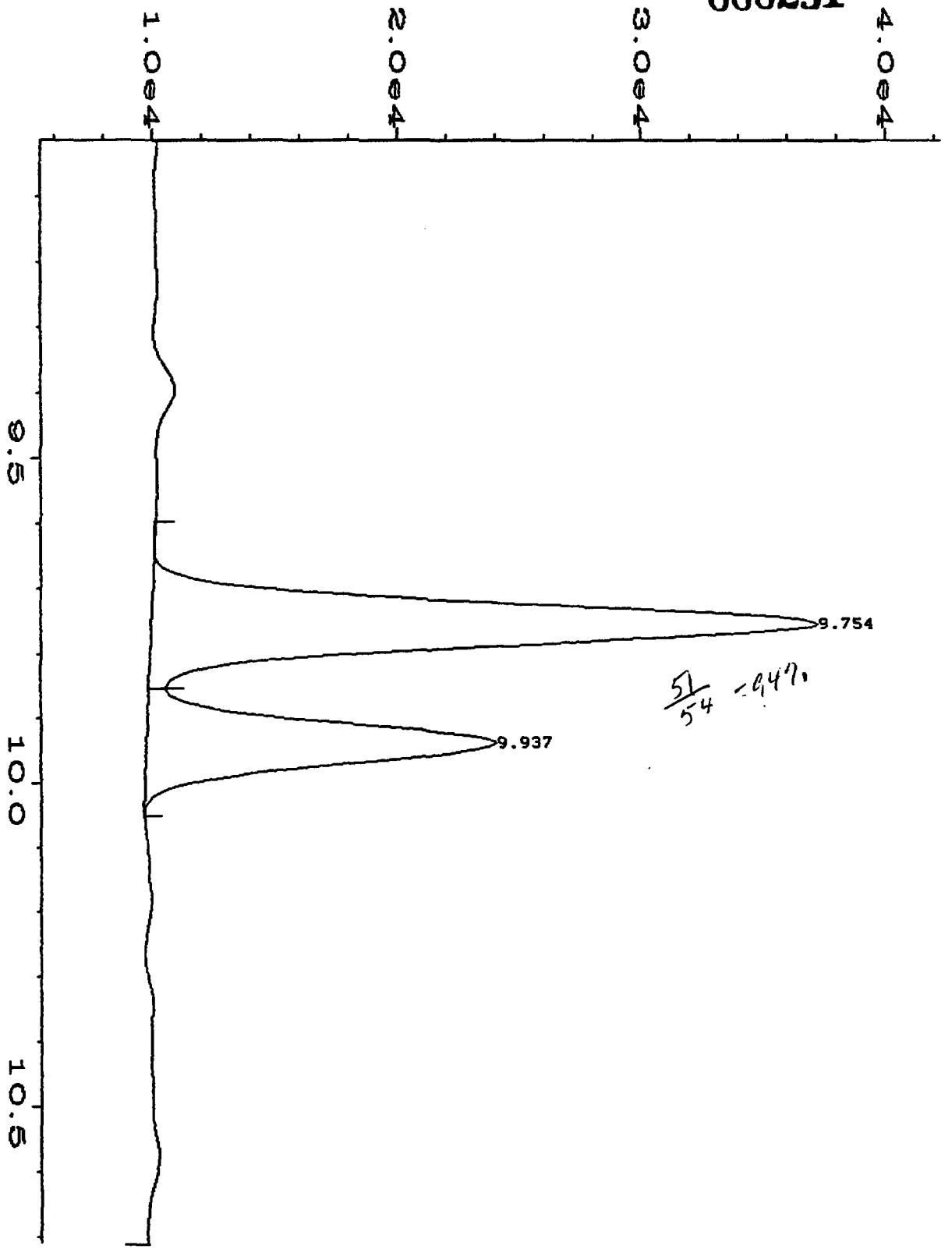
Sig. 1 in C:\HPCHEM\3\DATA\3041496\028F1801.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.861	207520	BV	0.069	1	0.0400	TCX
8.692	123625	BB	0.066	1	0.0200	alpha-BHC
9.754	120434	BV	0.069	1	0.0200	gamma-BHC
9.937	63610	VV	0.070	1	0.0200	beta-BHC
14.603	* not found *			1		4,4'-DDE
15.797	312821	PV	0.077	1	0.100	ENDRIN
15.991	3405	PB	0.067	1	0.000	4,4'-DDD
16.808	549831	PV	0.080	1	0.200	4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
19.379	699630	BV	0.119	1	0.500	METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
7.598	196810	BV	0.237	1	0.0400	DCB

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

000251

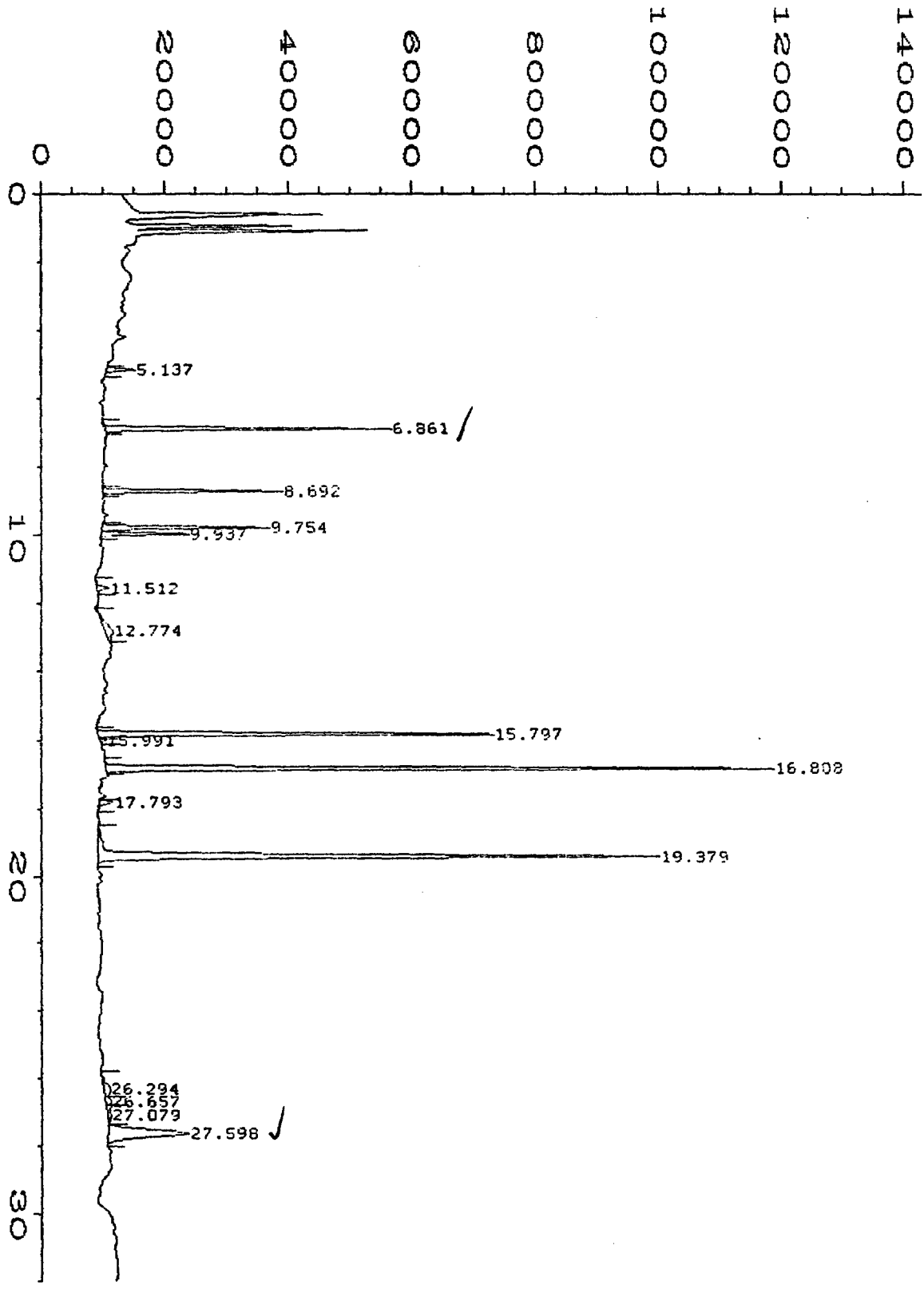


51/54 = 94%

Data File Name	: C:\HPCHEM\3\DATA\3041496\028F1801.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 28
Sample Name	: EPA1-9-A2F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 18
Acquired on	: 15 Apr 96 04:17 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 06:48 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:

Pam 2F RTX-35 30m 0.53mm ID 2um mg

000252



Data File Name	: C:\HPCHEM\3\DATA\3041496\028F1801.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 28
Sample Name	: EPA1-9-A 2F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 18
Acquired on	: 15 Apr 96 04:17 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 08:14 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: PEM2F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

000253

Data File Name : C:\HPCHEM\3\DATA\3041596\013F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-9-A3F
Run Time Bar Code: 20 58
Acquired on : 15 Apr 96 08:58 PM
Report Created on: 25 Apr 96 02:13 PM
Last Recalib on : 25 Apr 96 02:13 PM
Multiplier : 1
Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : PEMRTX35.MTH
Sample Amount : 0
ISTD Amount :

PEM3F, RTX-35, 0.53mm ID, 2µl 30m

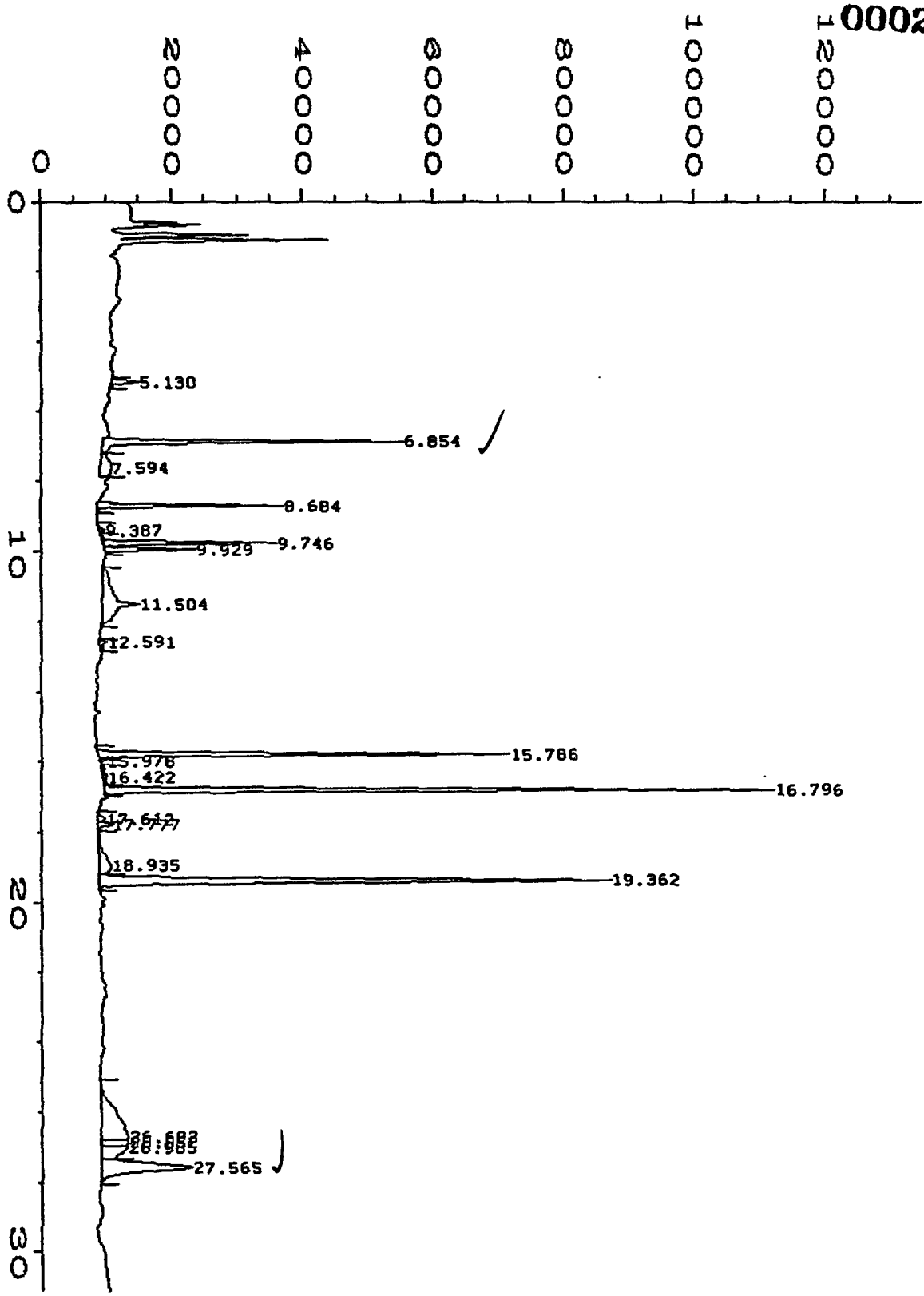
Sig. 1 in C:\HPCHEM\3\DATA\3041596\013F0101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.854	229460	VV	0.075	1	0.0400	TCX
8.684	121889	VV	0.067	1	0.0200	alpha-BHC
9.746	120694	VV	0.070	1	0.0200	gamma-BHC
9.929	62403	VV	0.070	1	0.0200	beta-BHC
14.602	* not found *			1		4,4'-DDE
15.786	309934	BV	0.077	1	0.100	ENDRIN
15.978	4955	VV	0.074	1	0.000	4,4'-DDD
16.796	519183	BV	0.080	1	0.200	4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
19.362	587828	VV	0.118	1	0.500	METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.565	231413	VV	0.254	1	0.0400	DCB

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

000254



Data File Name	: C:\HPCHEM\3\DATA\3041596\013F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 13
Sample Name	: EPA1-9-A3F	Injection Number	: 1
Run Time Bar Code:	20 SK	Sequence Line	: 1
Acquired on	: 15 Apr 96 08:58 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 09:33 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PEM3F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

000255

Data File Name : C:\HPCHEM\3\DATA\30423CAL\003F0201.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-9-AF1
Run Time Bar Code: 13 21
Acquired on : 23 Apr 96 01:21 PM
Report Created on: 25 Apr 96 08:56 AM
Last Recalib on : 25 Apr 96 08:56 AM
Multiplier : 1
Sample Info : PEMF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

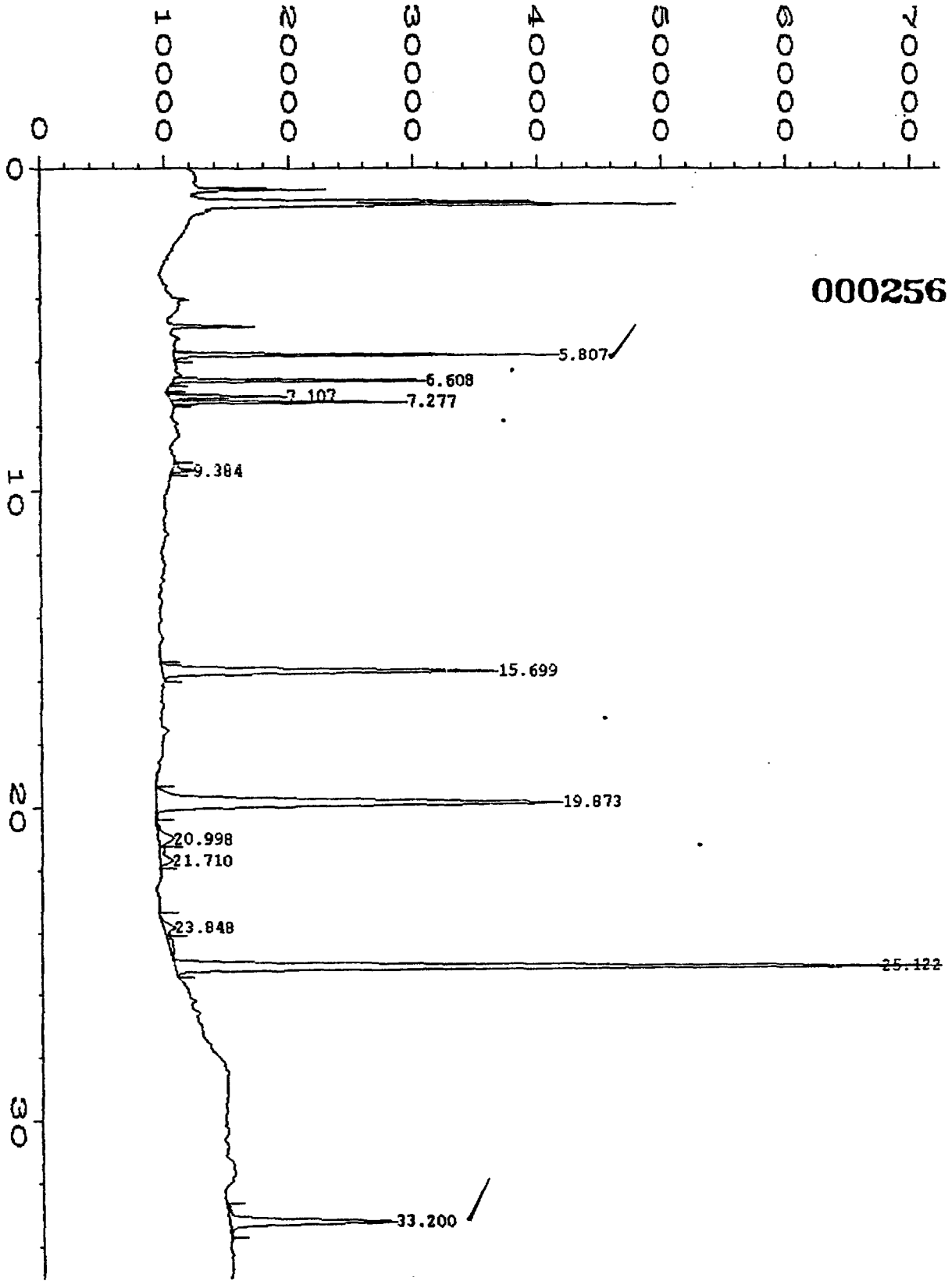
Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 2
Instrument Method: EPADB5P.MTH
Analysis Method : PEM3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\003F0201.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.807	111878	BV	0.055	1	0.0400	TCX
6.608	68596	VB	0.052	1	0.0200	alpha-BHC
7.107	35974	BV	0.058	1	0.0200	beta-BHC
7.277	65307	VB	0.053	1	0.0200	gamma-BHC
14.080	* not found *			1		4,4'-DDE
15.699	259904	BB	0.149	1	0.100	ENDRIN
16.740	* not found *			1		4,4'-DDD
17.540	* not found *			1		ENDRIN ALDEHYDE
19.873	450313	BB	0.214	1	0.200	4,4'-DDT
23.848	14322	BV	0.262	1	0.000	ENDRIN KETONE
25.122	583013	VV	0.151	1	0.500	METHOXYCHLOR
33.200	142812	BB	0.165	1	0.0400	DCB

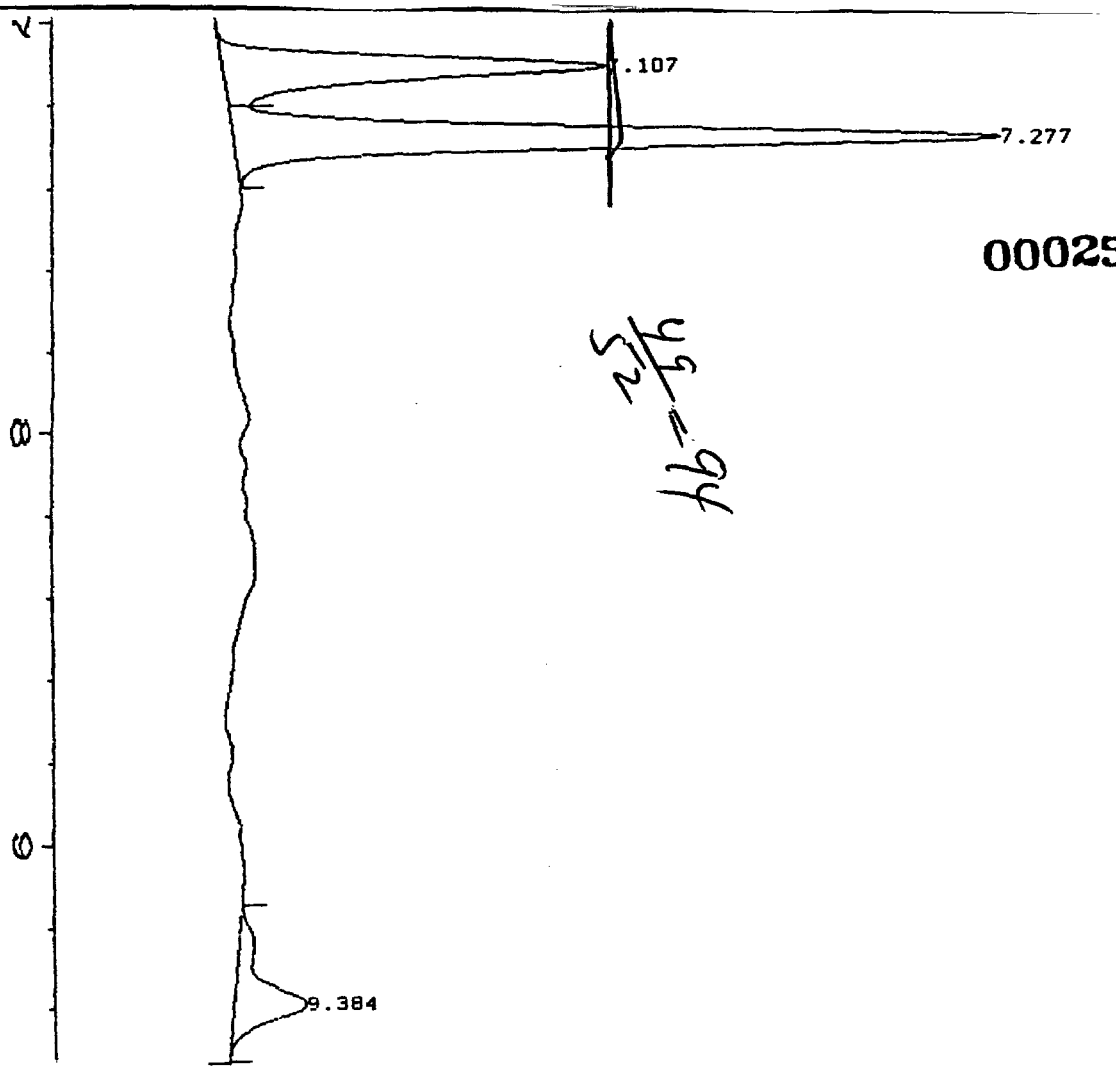
Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name : C:\HPCHEM\3\DATA\30423CAL\003F0201.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-9-AF1
Run Time Bar Code: 1321
Acquired on : 23 Apr 96 01:21 PM
Report Created on: 25 Apr 96 08:56 AM
Last Recalib on : 25 Apr 96 08:56 AM
Multiplier : 1
Sample Info : PEMF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 2
Instrument Method: EPADB5P.MTH
Analysis Method : PEM3F.MTH
Sample Amount : 0
ISTD Amount :



000257

$\frac{49}{52} = 94$

Data File Name	: C:\HPCHEM\3\DATA\30423CAL\003F0201.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 3
Sample Name	: EPA1-9-AF1	Injection Number	: 1
Run Time Bar Code:	13 21	Sequence Line	: 2
Acquired on	: 23 Apr 96 01:21 PM	Instrument Method:	EPADB5P.MTH
Report Created on:	25 Apr 96 11:12 AM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

PEMF1, HP3F, DB-5, 0.53mm ID, 2µl

External Standard Report

000258

Data File Name : C:\HPCHEM\3\DATA\30423CAL\026F1701.D
Operator : DLP
trument : HP3F
ple Name : EPA1-9-AF2
Run Time Bar Code:
Acquired on : 24 Apr 96 04:27 AM
Report Created on: 25 Apr 96 09:10 AM
Last Recalib on : 25 Apr 96 09:10 AM
Multiplier : 1
Sample Info : PEMF2, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

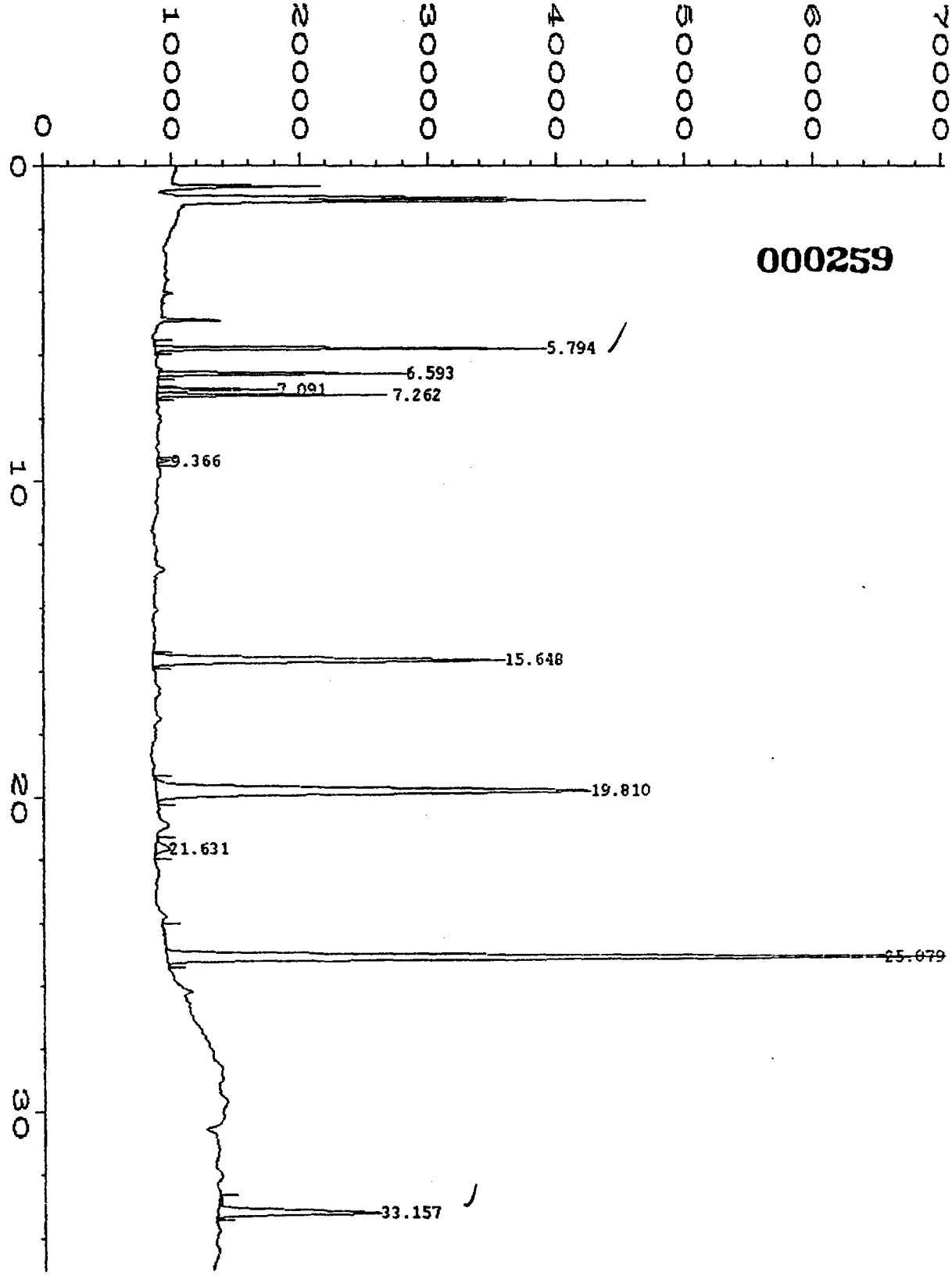
Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 17
Instrument Method: EPADB5P.MTH
Analysis Method : PEM3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\026F1701.D

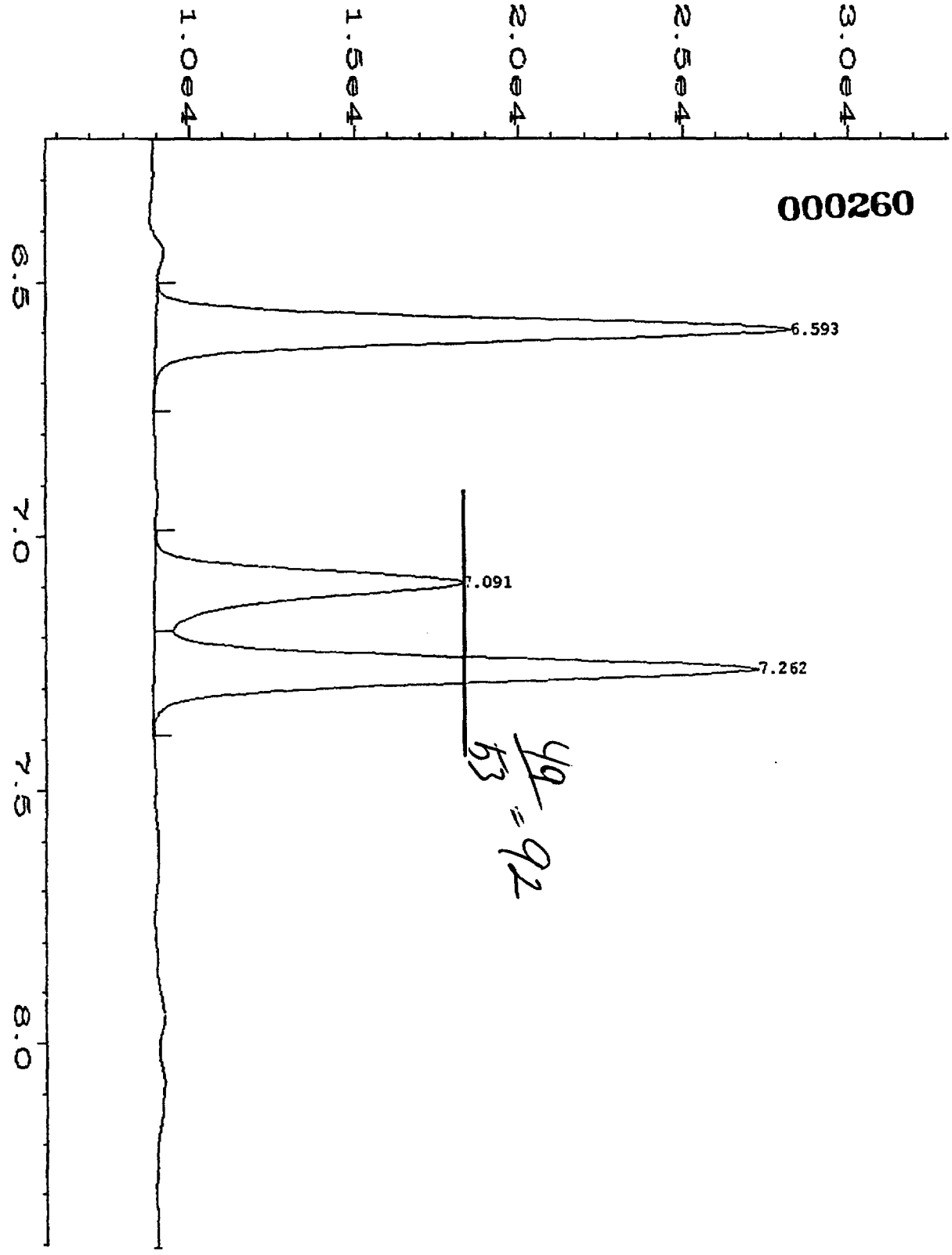
Ret Time	Area	Type	Width	Ref#	ng	Name
5.794	108709	BB	0.055	1	0.0400	TCX
6.593	63429	BB	0.051	1	0.0200	alpha-BHC
7.091	35926	BV	0.058	1	0.0200	beta-BHC
7.262	63136	VB	0.052	1	0.0200	gamma-BHC
14.080	* not found *			1		4,4'-DDE
15.648	260297	BB	0.150	1	0.100	ENDRIN
16.740	* not found *			1		4,4'-DDD
17.540	* not found *			1		ENDRIN ALDEHYDE
19.810	455849	BB	0.210	1	0.200	4,4'-DDT
23.790	* not found *			1		ENDRIN KETONE
25.079	584702	BV	0.153	1	0.500	METHOXYCHLOR
33.157	130675	BB	0.162	1	0.0400	DCB

ibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\026F1701.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 26
Sample Name	: EPA1-9-AF2	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 17
Acquired on	: 24 Apr 96 04:27 AM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 09:10 AM	Analysis Method	: PEM3F.MTH
Last Recalib on	: 25 Apr 96 09:10 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: PEMF2, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M		



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\026F1701.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 26
Sample Name	: EPA1-9-A F2	Injection Number	: 1
Time Bar Code:		Sequence Line	: 17
Acquired on	: 24 Apr 96 04:27 AM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 11:23 AM	Analysis Method	: INDB3F.MTH
Last Recalib on	: 25 Apr 96 11:15 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Penn F2
HP3F, DB-5, 30M
0.53mm ID
2ul inj.

External Standard Report

000261

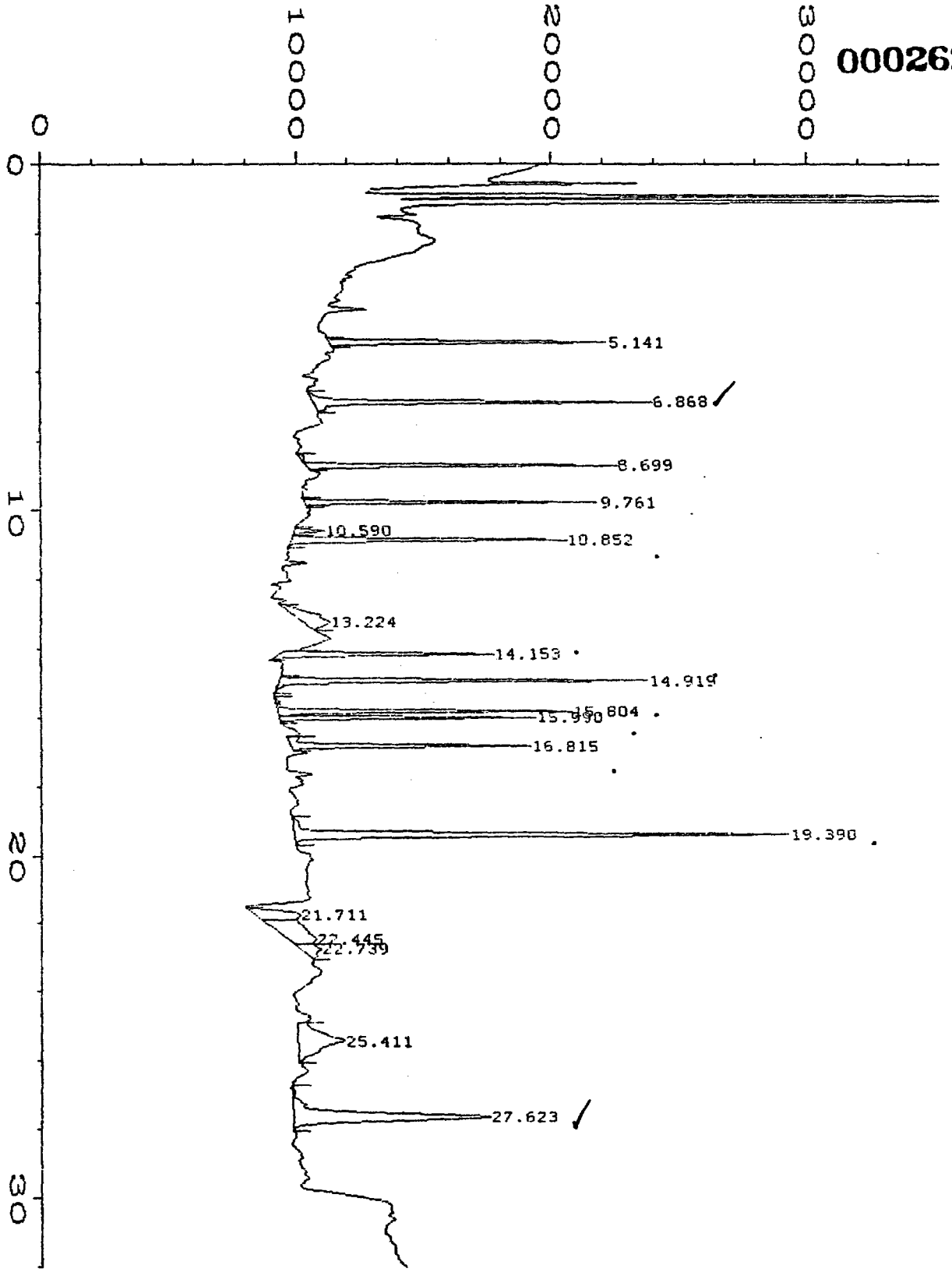
Data File Name : C:\HPCHEM\3\DATA\3041496\013F1101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-11-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 07:10 PM
Report Created on: 15 Apr 96 02:47 PM
Last Recalib on : 15 Apr 96 02:47 PM
Multiplier : 0.25
Sample Info : INDAL1F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 11
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\013F1101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	70497	BB	0.079	1	0.0100	TCX
8.699	52493	BV	0.067	1	0.0100	alpha-BHC
9.761	49382	BB	0.067	1	0.0100	gamma-BHC
10.852	58083	VB	0.083	1	0.0100	HEPTACHLOR
14.153	49095	VV	0.088	1	0.0100	ENDOSULFAN I
14.919	73834	BB	0.078	1	0.0200	DIELDRIN
15.804	59362	BV	0.079	1	0.0200	ENDRIN
15.990	45865	VV	0.071	1	0.0200	4,4'-DDD
16.815	52838	VV	0.085	1	0.0200	4,4'-DDT
19.390	144706	BB	0.116	1	0.100	METHOXYCHLOR
27.623	123522	BV	0.242	1	0.0200	DCB

000262



Data File Name	: C:\HPCHEM\3\DATA\3041496\013F1101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 13
Sample Name	: EPA1-11-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 11
Acquired on	: 14 Apr 96 ~~07~~ 19 :10 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 08:12 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: INDAL1F , HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

4/16/96

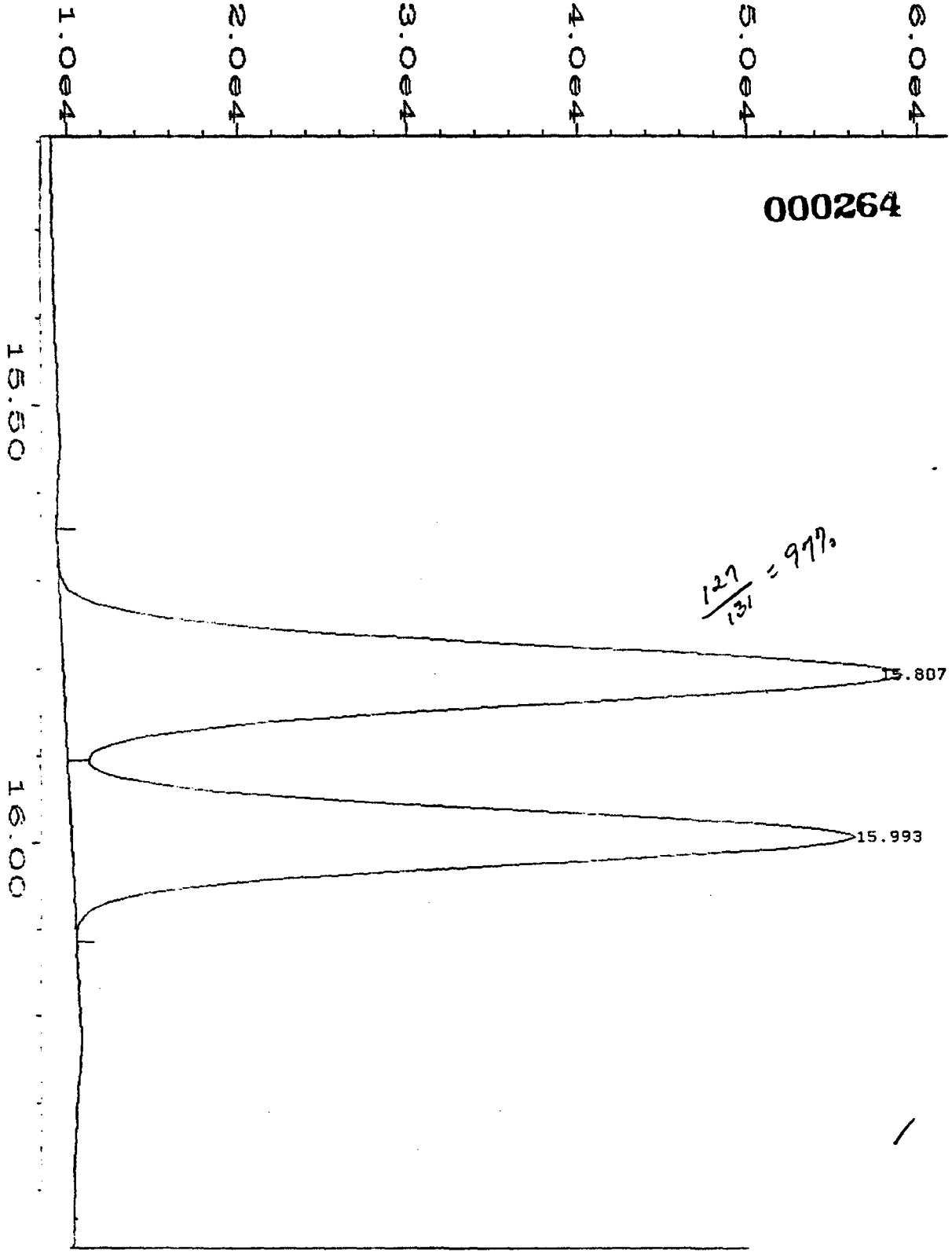
External Standard Report

000263

Data File Name	: C:\HPCHEM\3\DATA\3041496\018F1301.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 18
Sample Name	: EPA1-12-A IF	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 13
Acquired on	: 14 Apr 96 ~~10:12 PM~~ 22:12	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 12:12 PM	Analysis Method	: INDA3F.MTH
Last Recalib on	: 15 Apr 96 12:12 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: INDAMIF , HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

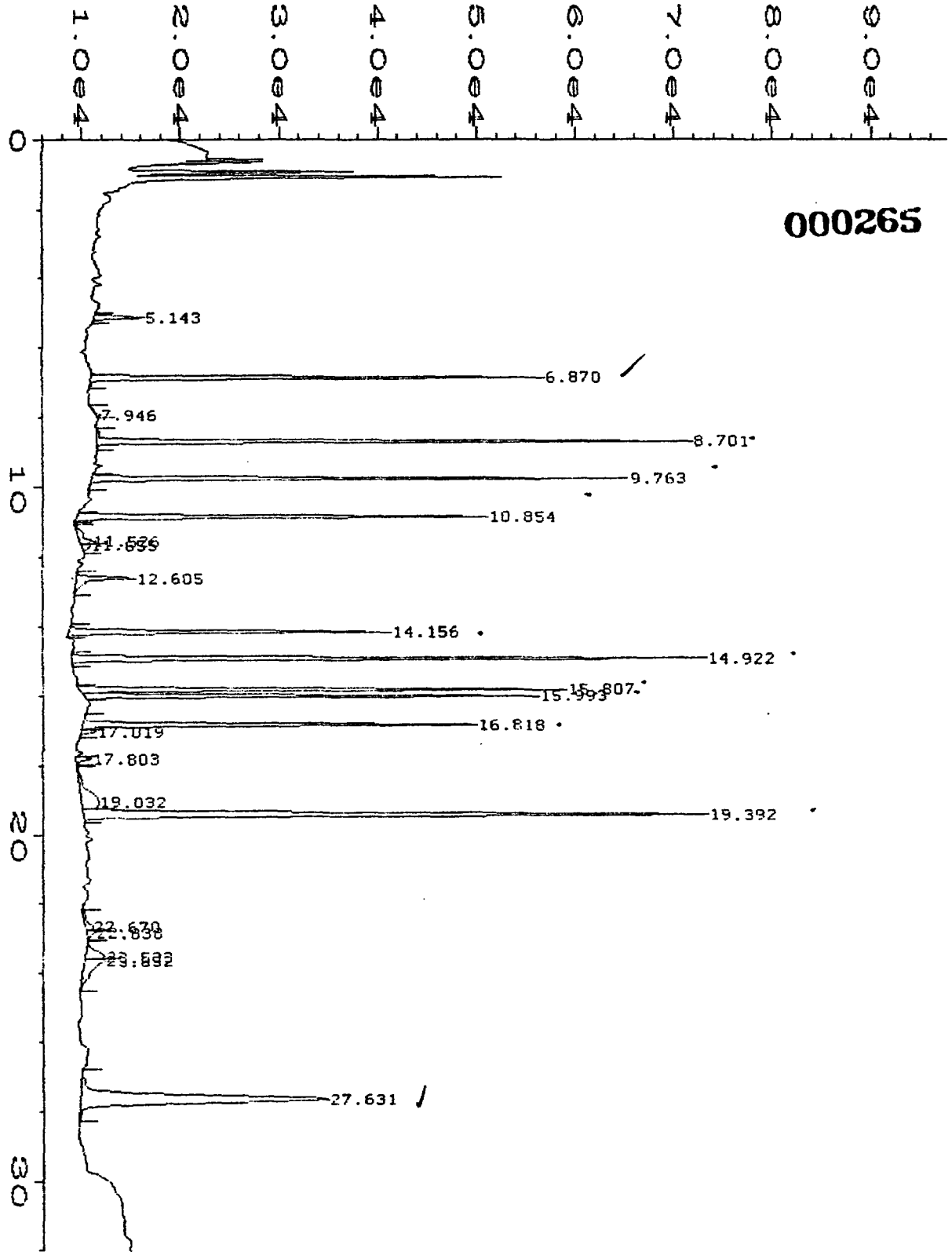
Sig. 1 in C:\HPCHEM\3\DATA\3041496\018F1301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.870	208478	BB	0.070	1	0.0400	TCX
8.701	267779	BB	0.070	1	0.0400	alpha-BHC
9.763	246438	BB	0.071	1	0.0400	gamma-BHC
10.854	215678	BB	0.081	1	0.0400	HEPTACHLOR
14.156	169879	BV	0.081	1	0.0400	ENDOSULFAN I
14.922	316718	BB	0.077	1	0.0800	DIELDRIN
15.807	239031	PV	0.076	1	0.0800	ENDRIN
15.993	203297	VV	0.069	1	0.0800	4,4'-DDD
16.818	201421	BV	0.079	1	0.0800	4,4'-DDT
19.392	472876	VV	0.117	1	0.400	METHOXYCHLOR
27.631	391391	BB	0.239	1	0.0800	DCB



Data File Name : C:\HPCHEM\3\DATA\3041496\018F1301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~10:12~~ PM
Report Created on: 15 Apr 96 10:11 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 1

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 13
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :



000265

Data File Name : C:\HPCHEM\3\DATA\3041496\018F1301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~10:12~~ 2212 PM
Report Created on: 15 Apr 96 07:56 AM
Last Recalib on : 15 Apr 96 07:53 AM
Multiplier : 1

Ind Am 1F, RTX-35, 30M 0.53mm ID HP3F
4/15/96

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 13
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

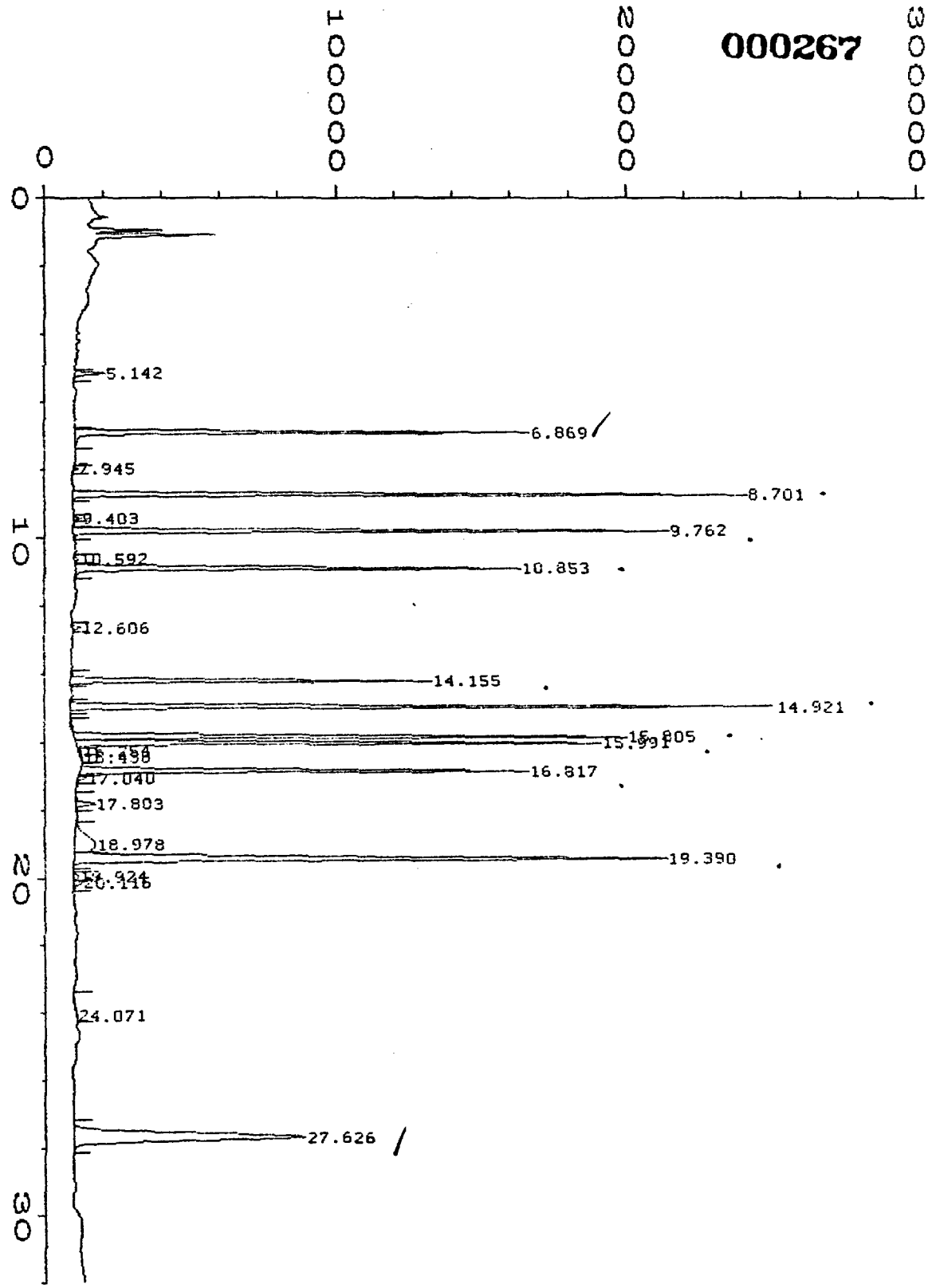
000266

Data File Name	: C:\HPCHEM\3\DATA\3041496\021F1501.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 21
Sample Name	: EPA1-13-A|F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 15
Acquired on	: 15 Apr 96 00:02 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 02:47 PM	Analysis Method	: INDA3F.MTH
Last Recalib on	: 15 Apr 96 02:47 PM	Sample Amount	: 0
Multiplier	: 4	ISTD Amount	:
Sample Info	: INDAH|F , HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

Sig. 1 in C:\HPCHEM\3\DATA\3041496\021F1501.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.869	745490	BV	0.074	1	0.160	TCX
8.701	1081019	VV	0.074	1	0.160	alpha-BHC
9.762	973004	BB	0.075	1	0.160	gamma-BHC
10.853	836663	VB	0.086	1	0.160	HEPTACHLOR
14.155	655111	BV	0.082	1	0.160	ENDOSULFAN I
14.921	1251420	BB	0.081	1	0.320	DIELDRIN
15.805	959535	BV	0.080	1	0.320	ENDRIN
15.991	842146	VV	0.073	1	0.320	4,4'-DDD
16.817	807268	BV	0.082	1	0.320	4,4'-DDT
19.390	1557526	VB	0.119	1	1.600	METHOXYCHLOR
27.626	1236206	BV	0.245	1	0.320	DCB

000267



Data File Name	: C:\HPCHEM\3\DATA\3041496\021F1501.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 21
Sample Name	: EPA1-13-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 15
Acquired on	: 15 Apr 96 00:02 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 08:13 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: INDAH1F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

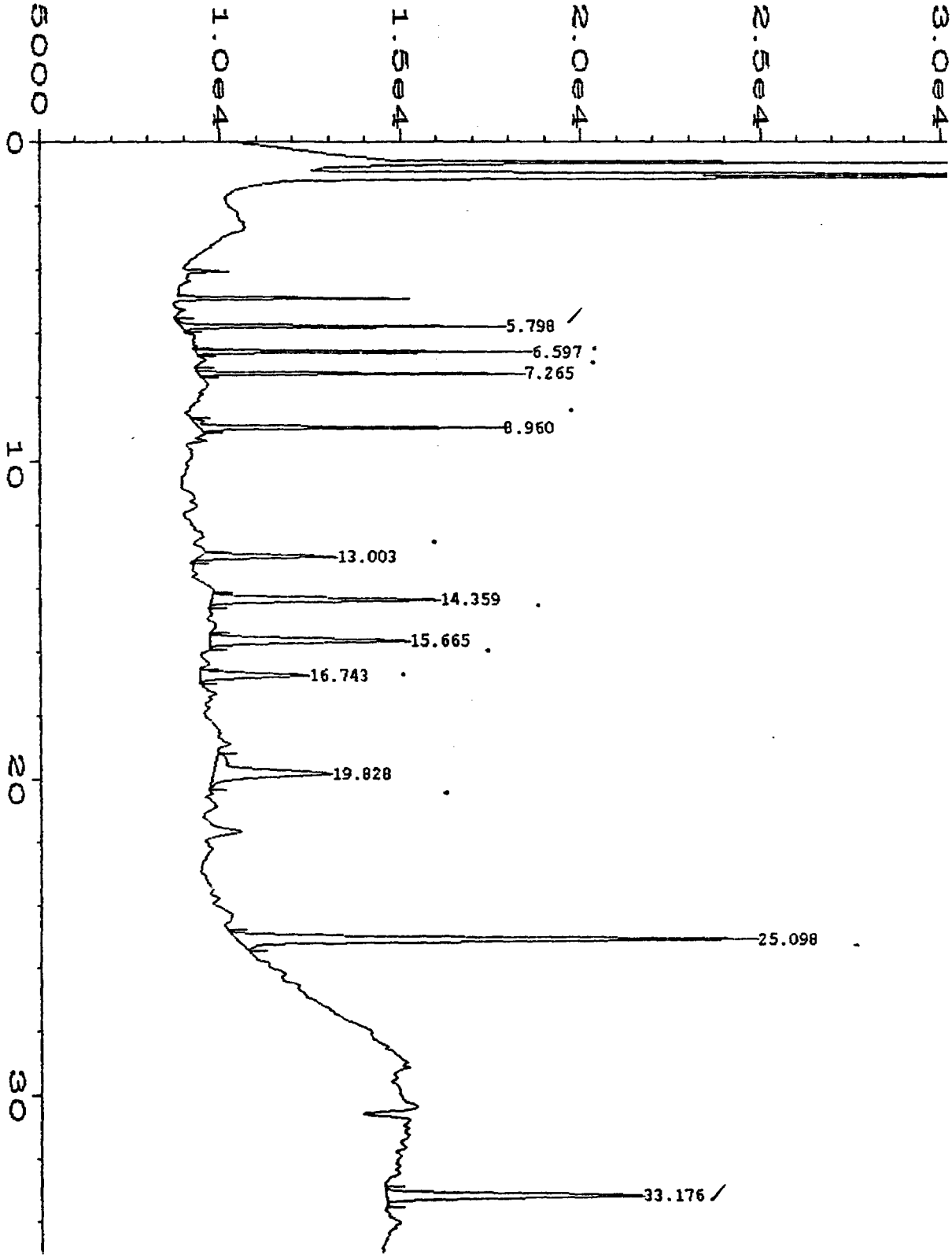
000268

Data File Name : C:\HPCHEM\3\DATA\30423CAL\012F1001.D
rator : DLP
trument : HP3F
Sample Name : EPA1-11-AF1
Run Time Bar Code: 19 16
Acquired on : 23 Apr 96 07:16 PM
Report Created on: 25 Apr 96 09:03 AM
Last Recalib on : 25 Apr 96 09:03 AM
Multiplier : 0.25
Sample Info : INDALF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 10
Instrument Method: EPADB5P.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\012F1001.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.798	32531	BB	0.055	1	0.0100	TCX
6.597	30486	BB	0.050	1	0.0100	alpha-BHC
7.265	30840	BB	0.053	1	0.0100	gamma-BHC
8.960	41799	BB	0.076	1	0.0100	HEPTACHLOR
13.003	28954	BB	0.116	1	0.0100	ENDOSULFAN I
14.359	55344	BB	0.136	1	0.0200	DIELDRIN
15.665	53124	BB	0.151	1	0.0200	ENDRIN
16.743	30613	BV	0.158	1	0.0200	4,4'-DDD
19.828	57741	BB	0.251	1	0.0200	4,4'-DDT
25.098	137494	BB	0.147	1	0.100	METHOXYCHLOR
33.176	70929	BB	0.158	1	0.0200	DCB



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\012F1001.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 12
Sample Name	: EPA1-11-AF1	Injection Number	: 1
Run Time Bar Code:	19 16	Sequence Line	: 10
Acquired on	: 23 Apr 96 07:16 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 09:03 AM	Analysis Method	: INDA3F.MTH
Last Recalib on	: 25 Apr 96 09:03 AM	Sample Amount	: 0
Multiplier	: 0.25	ISTD Amount	:
Sample Info	: INDALF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M		

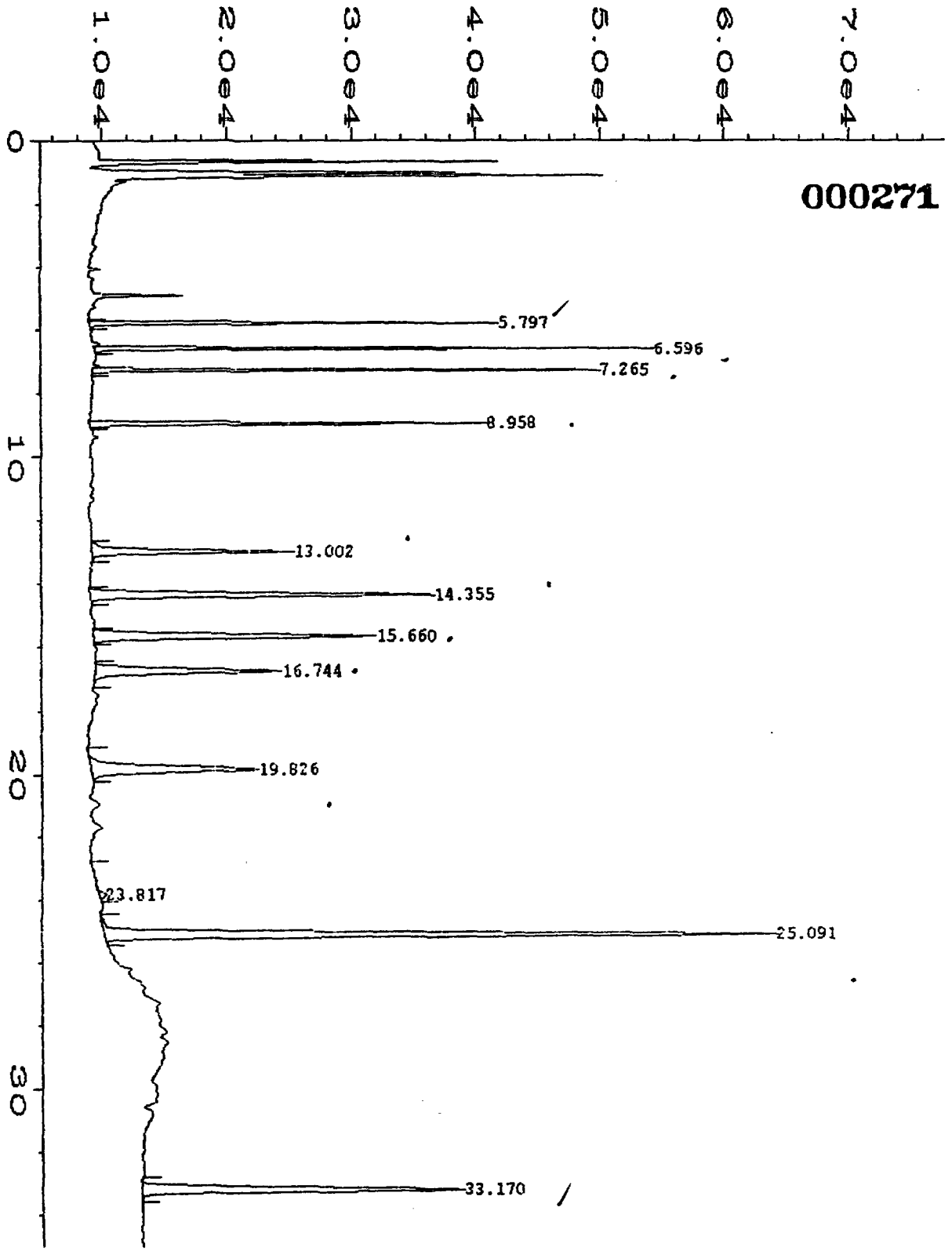
External Standard Report

Data File Name : C:\HPCHEM\3\DATA\30423CAL\017F1201.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-AF1
Run Time Bar Code: 2233
Acquired on : 23 Apr 96 10:33 PM
Report Created on: 25 Apr 96 09:05 AM
Last Recalib on : 25 Apr 96 09:05 AM
Multiplier : 1
Sample Info : INDAMF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number 000270
Vial Number : 17
Injection Number : 1
Sequence Line : 12
Instrument Method: EPADB5P.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\017F1201.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.797	114863	BB	0.054	1	0.0400	TCX
6.596	147742	VB	0.051	1	0.0400	alpha-BHC
7.265	139601	VB	0.053	1	0.0400	gamma-BHC
8.958	147435	BV	0.072	1	0.0400	HEPTACHLOR
13.002	131356	BB	0.123	1	0.0400	ENDOSULFAN I
14.355	238638	BB	0.134	1	0.0800	DIELDRIN
15.660	216181	BB	0.149	1	0.0800	ENDRIN
16.744	159850	BB	0.167	1	0.0800	4,4'-DDD
19.826	185640	BB	0.215	1	0.0800	4,4'-DDT
25.091	520257	BV	0.153	1	0.400	METHOXYCHLOR
33.170	266652	BB	0.159	1	0.0800	DCB



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\017F1201.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 17
Sample Name	: EPA1-12-A F1	Injection Number	: 1
Run Time Bar Code:	2233	Sequence Line	: 12
Acquired on	: 23 Apr 96 10:33 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 09:05 AM	Analysis Method	: INDA3F.MTH
Last Recalib on	: 25 Apr 96 09:05 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: INDAM F1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

000272

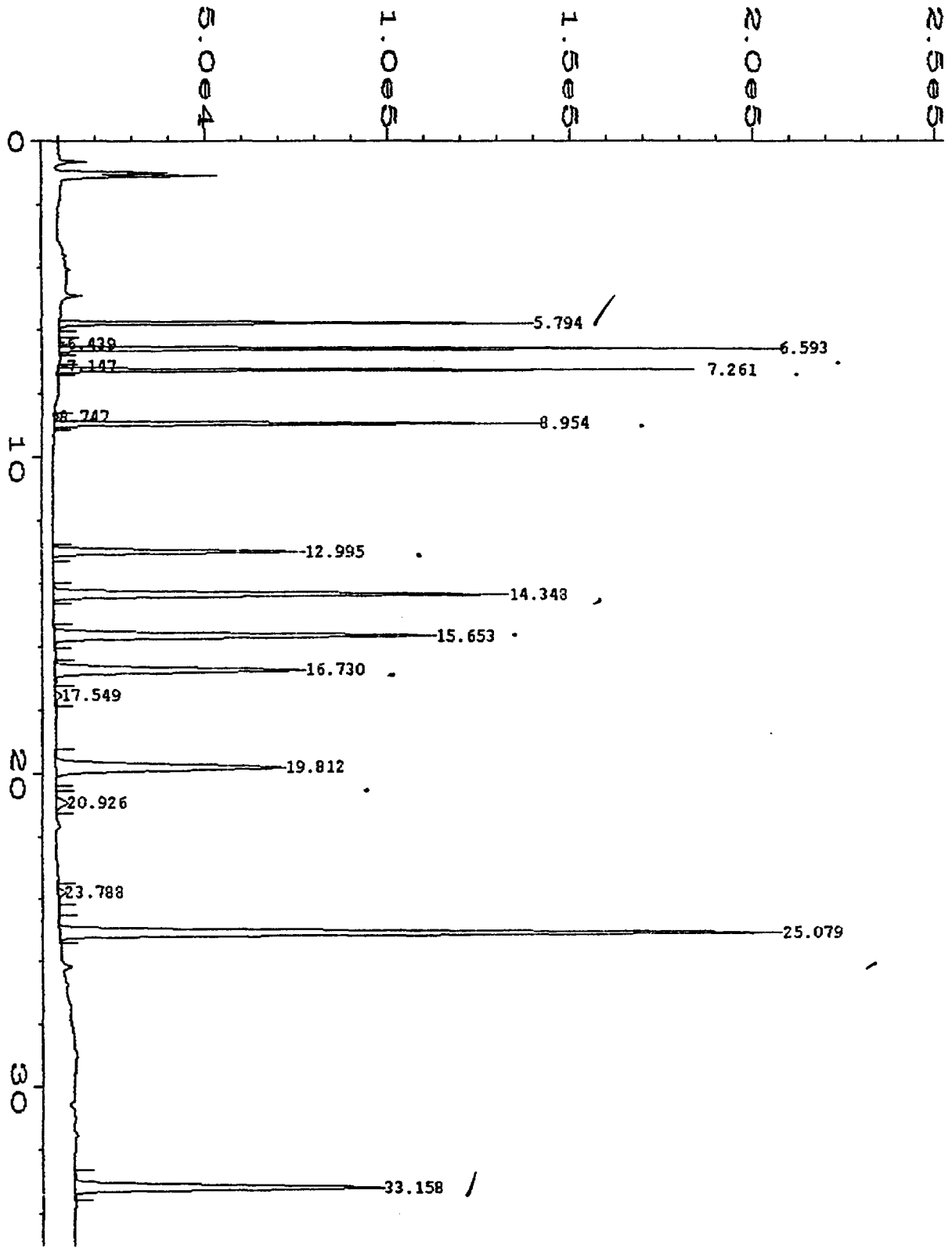
Data File Name : C:\HPCHEM\3\DATA\30423CAL\020F1401.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-13-AF1
Run Time Bar Code:
Acquired on : 24 Apr 96 00:31 AM
Report Created on: 25 Apr 96 09:07 AM
Last Recalib on : 25 Apr 96 09:07 AM
Multiplier : 4
Sample Info : INDAHF1 , HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 20
Injection Number : 1
Sequence Line : 14
Instrument Method: EPADB5P.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\020F1401.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.794	457816	BV	0.054	1	0.160	TCX
6.593	686237	VB	0.054	1	0.160	alpha-BHC
7.261	623108	VV	0.054	1	0.160	gamma-BHC
8.954	622443	VB	0.073	1	0.160	HEPTACHLOR
12.995	530480	BB	0.122	1	0.160	ENDOSULFAN I
14.348	1077435	BB	0.137	1	0.320	DIELDRIN
15.653	1009568	BB	0.153	1	0.320	ENDRIN
16.730	726354	BV	0.166	1	0.320	4,4'-DDD
19.812	836203	PB	0.211	1	0.320	4,4'-DDT
25.079	1906629	BV	0.148	1	1.600	METHOXYCHLOR
33.158	904054	BV	0.166	1	0.320	DCB

000273



Data File Name : C:\HPCHEM\3\DATA\30423CAL\020F1401.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-13-AF1
Run Time Bar Code:
Acquired on : 24 Apr 96 00:31 AM
Report Created on: 25 Apr 96 09:08 AM
Last Recalib on : 25 Apr 96 09:07 AM
Multiplier : 4
Sample Info : INDAHF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 20
Injection Number : 1
Sequence Line : 14
Instrument Method: EPADB5P.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

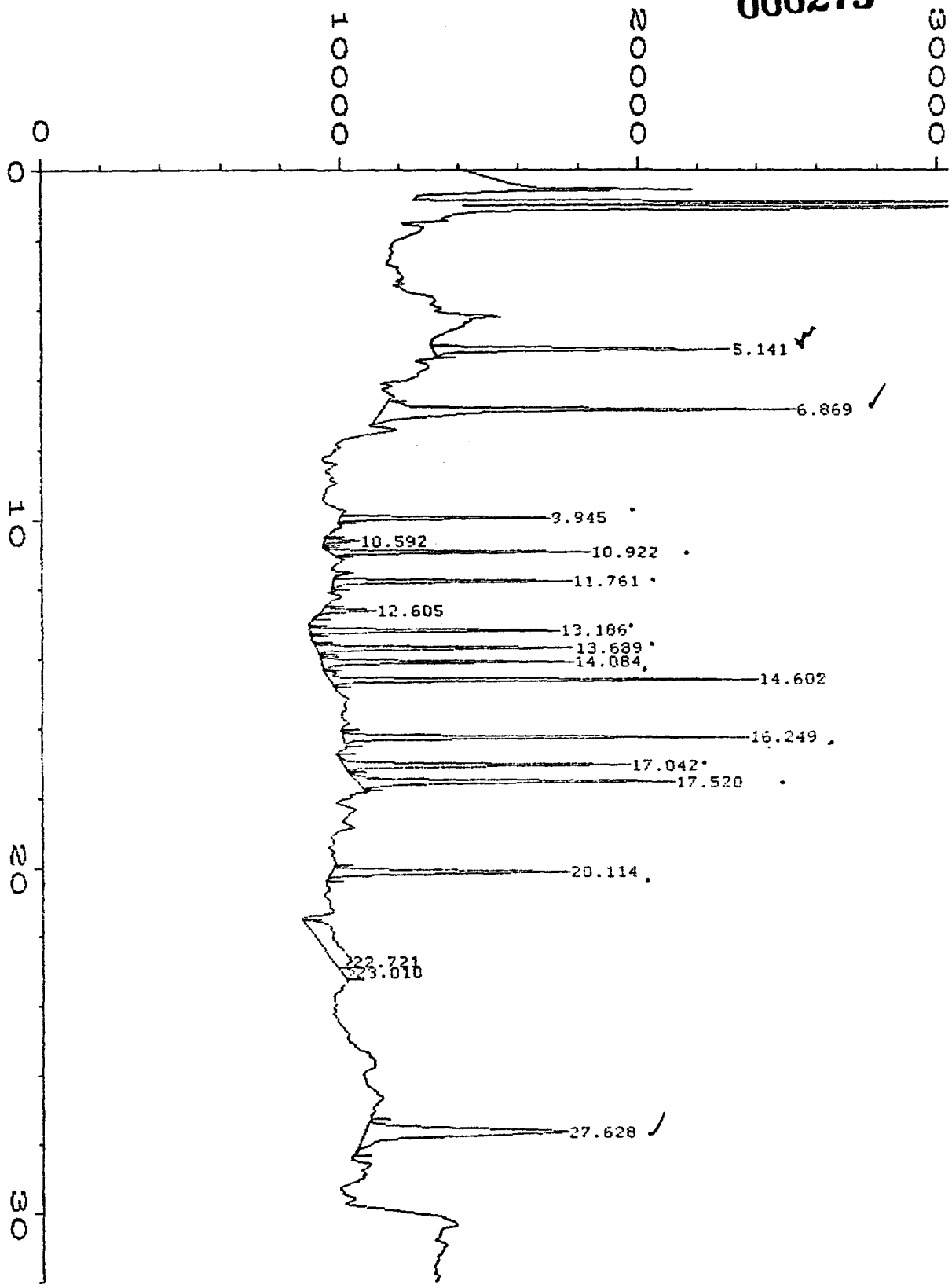
000274

Data File Name : C:\HPCHEM\3\DATA\3041496\016F1201.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-15-A|F
Run Time Bar Code:
Acquired on : 14 Apr 96 08:59 PM
Report Created on: 15 Apr 96 02:47 PM
Last Recalib on : 15 Apr 96 02:47 PM
Multiplier : 0.25
Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 12
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :
Sample Info : INDBL|F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Sig. 1 in C:\HPCHEM\3\DATA\3041496\016F1201.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.869	102869	BV	0.103	1	0.0100	TCX
9.945	31367	BB	0.069	1	0.0100	beta-BHC
10.922	36209	BV	0.065	1	0.0100	delta-BHC
11.761	42257	BB	0.082	1	0.0100	ALDRIN
13.186	42196	BB	0.079	1	0.0100	HEPT. EPOXIDE
13.689	44722	BB	0.080	1	0.0100	g. CHLORDANE
14.084	45770	BV	0.083	1	0.0100	a. CHLORDANE
14.602	68291	PB	0.073	1	0.0200	4,4'-DDE
16.249	71039	BB	0.080	1	0.0200	ENDOSULFAN II
17.042	55351	BB	0.089	1	0.0200	ENDRIN ALDEHYDE
17.520	68906	BV	0.098	1	0.0200	ENDO. SULFATE
20.114	58968	BB	0.116	1	0.0200	ENDRIN KETONE
7.628	109207	BB	0.247	1	0.0200	DCB

000275



Data File Name	: C:\HPCHEM\3\DATA\3041496\016F1201.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 16
Sample Name	: EPA1-15-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 12
Acquired on	: 14 Apr 96 ~~08~~:59 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 08:13 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: INDBL1F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

000276

Data File Name : C:\HPCHEM\3\DATA\3041496\020F1401.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 11:25 PM
Report Created on: 16 Apr 96 09:53 AM
Last Recalib on : 16 Apr 96 09:51 AM
Multiplier : 1

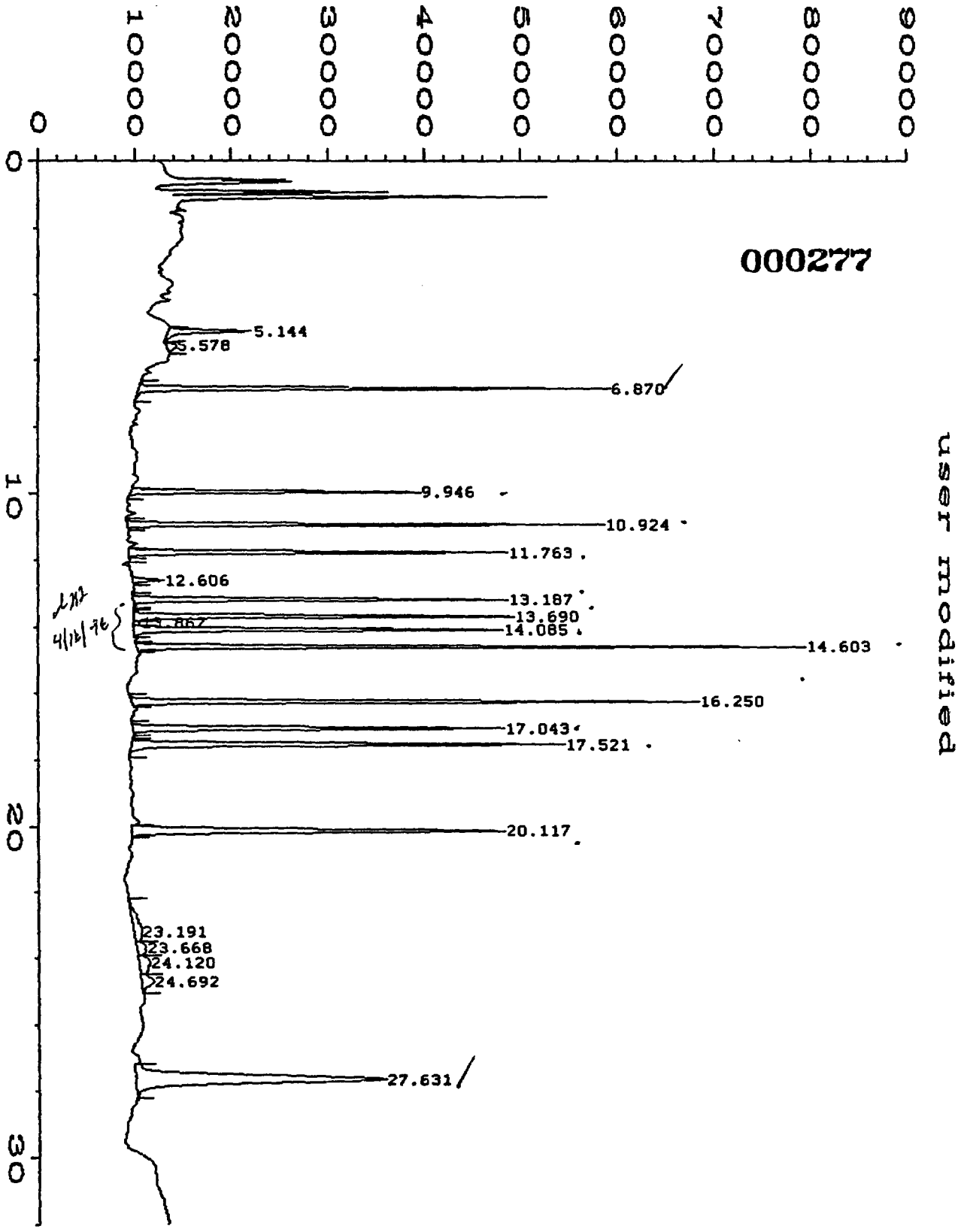
IndBM1F
DB-35, 30 M, 0.53 mm ID
2 uL
23
4/16/96

Page Number : 1
Vial Number : 20
Injection Number : 1
Sequence Line : 14
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\020F1401.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.870	224596	BB	0.071	1	0.0400	TCX
9.946	135471	BB	0.071	1	0.0400	beta-BHC
10.924	207336	BB	0.066	1	0.0400	delta-BHC
11.763	199454	VB	0.080	1	0.0400	ALDRIN
13.187	197307	BB	0.079	1	0.0400	HEPT. EPOXIDE
13.690	206009	MF	0.087	1	0.0400	g. CHLORDANE
14.085	204632	FM	0.089	1	0.0400	a. CHLORDANE
14.603	313290	BV	0.071	1	0.0800	4,4'-DDE
16.250	293334	BV	0.078	1	0.0800	ENDOSULFAN II
17.043	212752	BB	0.087	1	0.0800	ENDRIN ALDEHYDE
17.521	269270	BB	0.093	1	0.0800	ENDO. SULFATE
20.117	289103	VB	0.118	1	0.0800	ENDRIN KETONE
27.631	416509	VV	0.248	1	0.0800	DCB

r Modified



Data File Name : C:\HPCHEM\3\DATA\3041496\020F1401.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-A1F
Real Time Bar Code:
Acquired on : 14 Apr 96 11:25 PM
Report Created on: 16 Apr 96 09:53 AM
Last Recalib on : 16 Apr 96 09:51 AM
Multiplier : 1

Page Number : 1
Vial Number : 20
Injection Number : 1
Sequence Line : 14
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

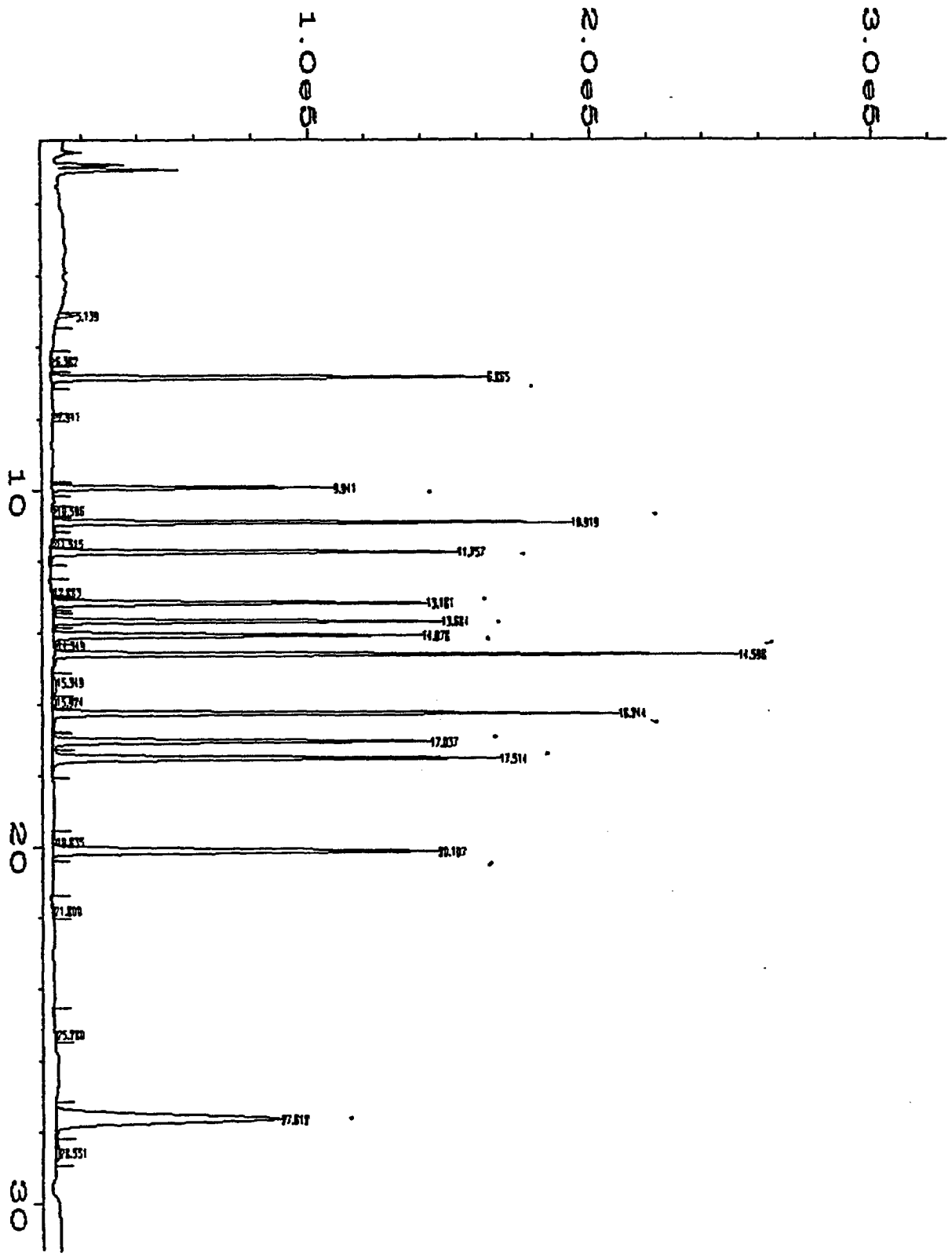
000278

Data File Name : C:\HPCHEM\3\DATA\3041496\024F1601.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-17-AIF
Run Time Bar Code:
Acquired on : 15 Apr 96 01:51 AM
Report Created on: 15 Apr 96 02:48 PM
Last Recalib on : 15 Apr 96 02:48 PM
Multiplier : 4
Sample Info : INDBHIF, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 16
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\024F1601.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.865	714694	BB	0.072	1	0.160	TCX
9.941	459776	BB	0.072	1	0.160	beta-BHC
10.919	824816	BB	0.071	1	0.160	delta-BHC
11.757	778383	VV	0.085	1	0.160	ALDRIN
13.181	690013	BB	0.082	1	0.160	HEPT. EPOXIDE
13.684	719433	BV	0.082	1	0.160	g. CHLORDANE
14.078	689885	VV	0.083	1	0.160	a. CHLORDANE
14.598	1151710	BB	0.075	1	0.320	4,4'-DDE
16.244	1035322	VB	0.082	1	0.320	ENDOSULFAN II
17.037	764948	BV	0.090	1	0.320	ENDRIN ALDEHYDE
17.514	981786	VV	0.097	1	0.320	ENDO. SULFATE
20.107	1070931	VV	0.125	1	0.320	ENDRIN KETONE
27.612	1264947	BV	0.243	1	0.320	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\024F1601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 24
Sample Name	: EPA1-17-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 16
Acquired on	: 15 Apr 96 01:51 AM	Instrument Method:	EPAMTH_F.MTH
Report Created on:	15 Apr 96 03:20 PM	Analysis Method	: INDB3F.MTH
Last Recalib on	: 15 APR 96 02:48 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Ind BH 1F, RTX-35, 30m, 0.53mm ID, 2uL inj.

External Standard Report

000280

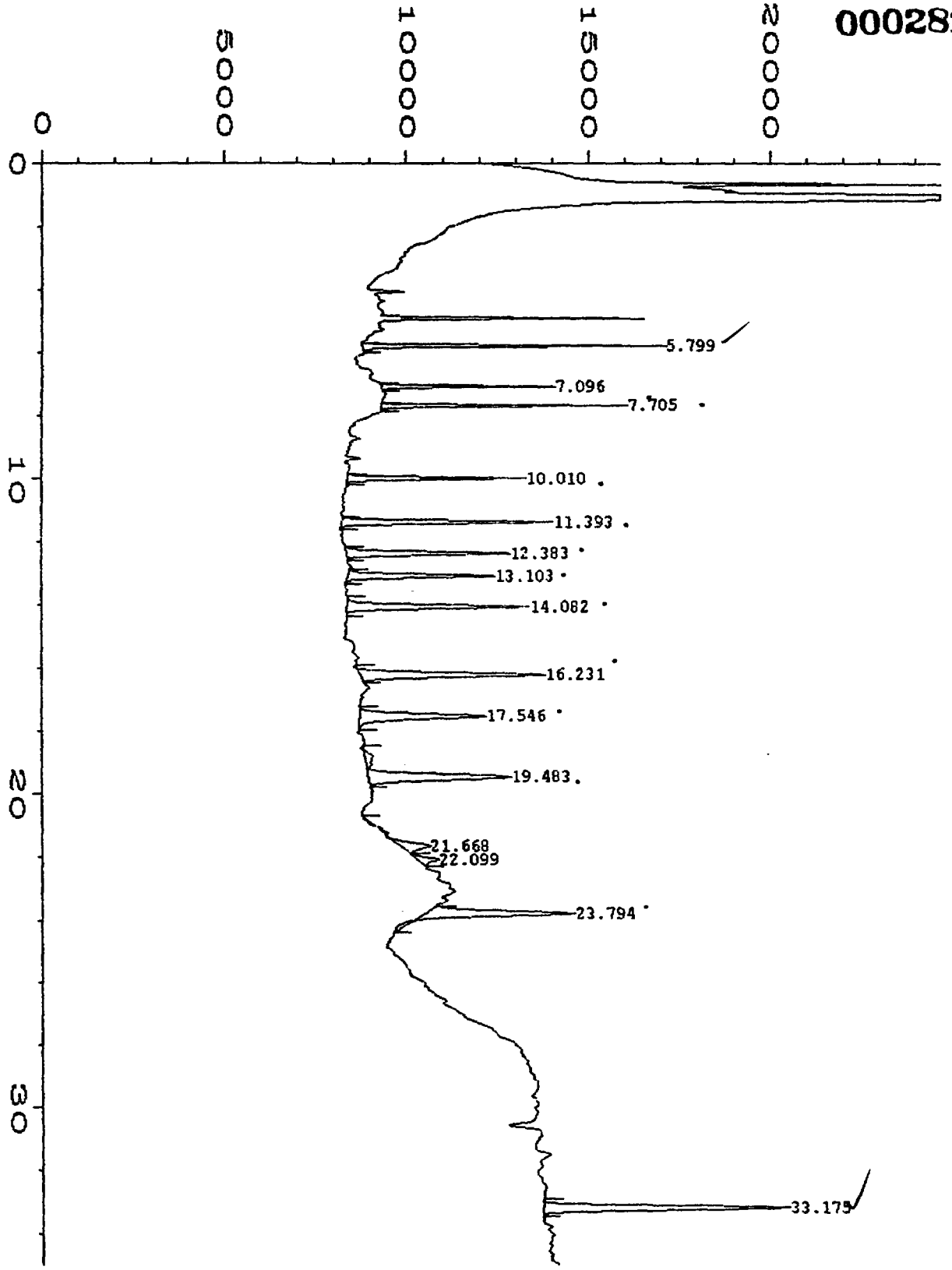
Data File Name : C:\HPCHEM\3\DATA\30423CAL\014F1101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-15-AF1
Run Time Bar Code:
Acquired on : 23 Apr 96 08:35 PM
Report Created on: 25 Apr 96 09:04 AM
Last Recalib on : 25 Apr 96 09:04 AM
Multiplier : 0.25
Sample Info : INDBLF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 11
Instrument Method: EPADB5P.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\014F1101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.799	30944	BB	0.056	1	0.0100	TCX
7.096	16963	BB	0.055	1	0.0100	beta-BHC
7.705	24250	BB	0.055	1	0.0100	delta-BHC
10.010	26460	BB	0.083	1	0.0100	ALDRIN
11.393	38658	BB	0.102	1	0.0100	HEPT. EPOXIDE
12.383	33760	BB	0.118	1	0.0100	g. CHLORDANE
13.103	31308	BB	0.121	1	0.0100	a. CHLORDANE
14.082	43519	BB	0.133	1	0.0200	4,4'-DDE
16.231	50550	BB	0.154	1	0.0200	ENDOSULFAN II
17.546	42940	BB	0.189	1	0.0200	ENDRIN ALDEHYDE
19.483	55753	BB	0.217	1	0.0200	ENDO. SULFATE
23.794	45830	BB	0.179	1	0.0200	ENDRIN KETONE
33.175	65659	BB	0.156	1	0.0200	DCB

000281



Data File Name : C:\HPCHEM\3\DATA\30423CAL\014F1101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-15-A F1
Run Time Bar Code: 20 35
Acquired on : 23 Apr 96 08:35 PM
Report Created on: 25 Apr 96 09:04 AM
Last Recalib on : 25 Apr 96 09:04 AM
Multiplier : 0.25
Sample Info : INDBLF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 11
Instrument Method: EPADB5P.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

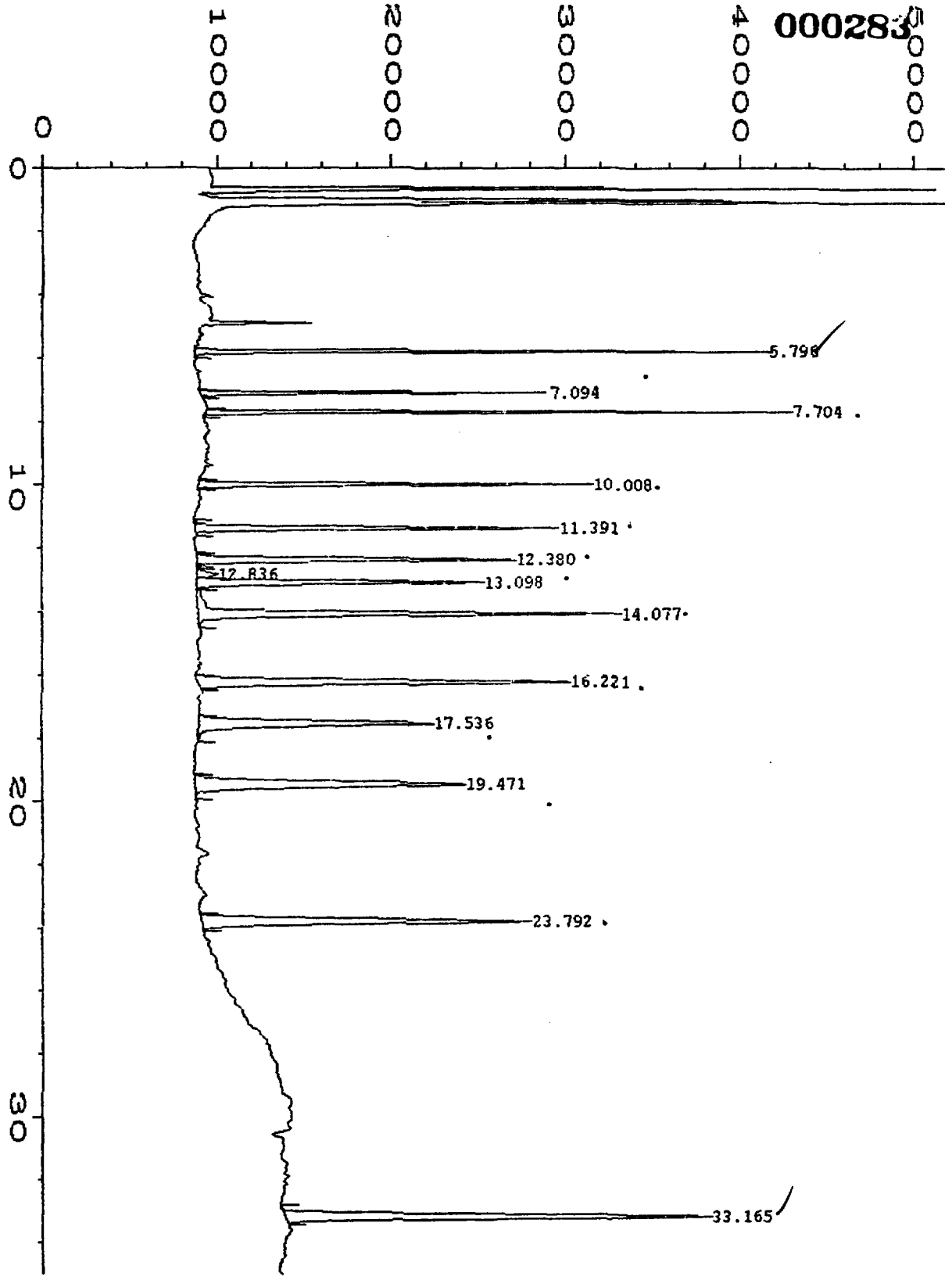
000282

Data File Name : C:\HPCHEM\3\DATA\30423CAL\018F1301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-AF1
Run Time Bar Code: 23 12
Acquired on : 23 Apr 96 11:12 PM
Report Created on: 25 Apr 96 09:06 AM
Last Recalib on : 25 Apr 96 09:06 AM
Multiplier : 1
Sample Info : INDBMF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 13
Instrument Method: EPADB5P.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\018F1301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.796	116778	BB	0.054	1	0.0400	TCX
7.094	71129	BB	0.054	1	0.0400	beta-BHC
7.704	114635	BB	0.053	1	0.0400	delta-BHC
10.008	118426	BB	0.081	1	0.0400	ALDRIN
11.391	135284	BB	0.100	1	0.0400	HEPT. EPOXIDE
12.380	135211	BB	0.115	1	0.0400	g. CHLORDANE
13.098	134526	VV	0.127	1	0.0400	a. CHLORDANE
14.077	219014	VV	0.137	1	0.0800	4,4'-DDE
16.221	216281	BV	0.160	1	0.0800	ENDOSULFAN II
17.536	164490	BB	0.191	1	0.0800	ENDRIN ALDEHYDE
19.471	206611	BB	0.208	1	0.0800	ENDO. SULFATE
23.792	213070	BV	0.179	1	0.0800	ENDRIN KETONE
33.165	250626	BV	0.162	1	0.0800	DCB



Data File Name : C:\HPCHEM\3\DATA\30423CAL\018F1301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-AF1
Run Time Bar Code:
Acquired on : 23 Apr 96 11:12 PM
Report Created on: 25 Apr 96 09:07 AM
Last Recalib on : 25 Apr 96 09:06 AM
Multiplier : 1
Sample Info : INDBMF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

23 12

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 13
Instrument Method: EPADB5P.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

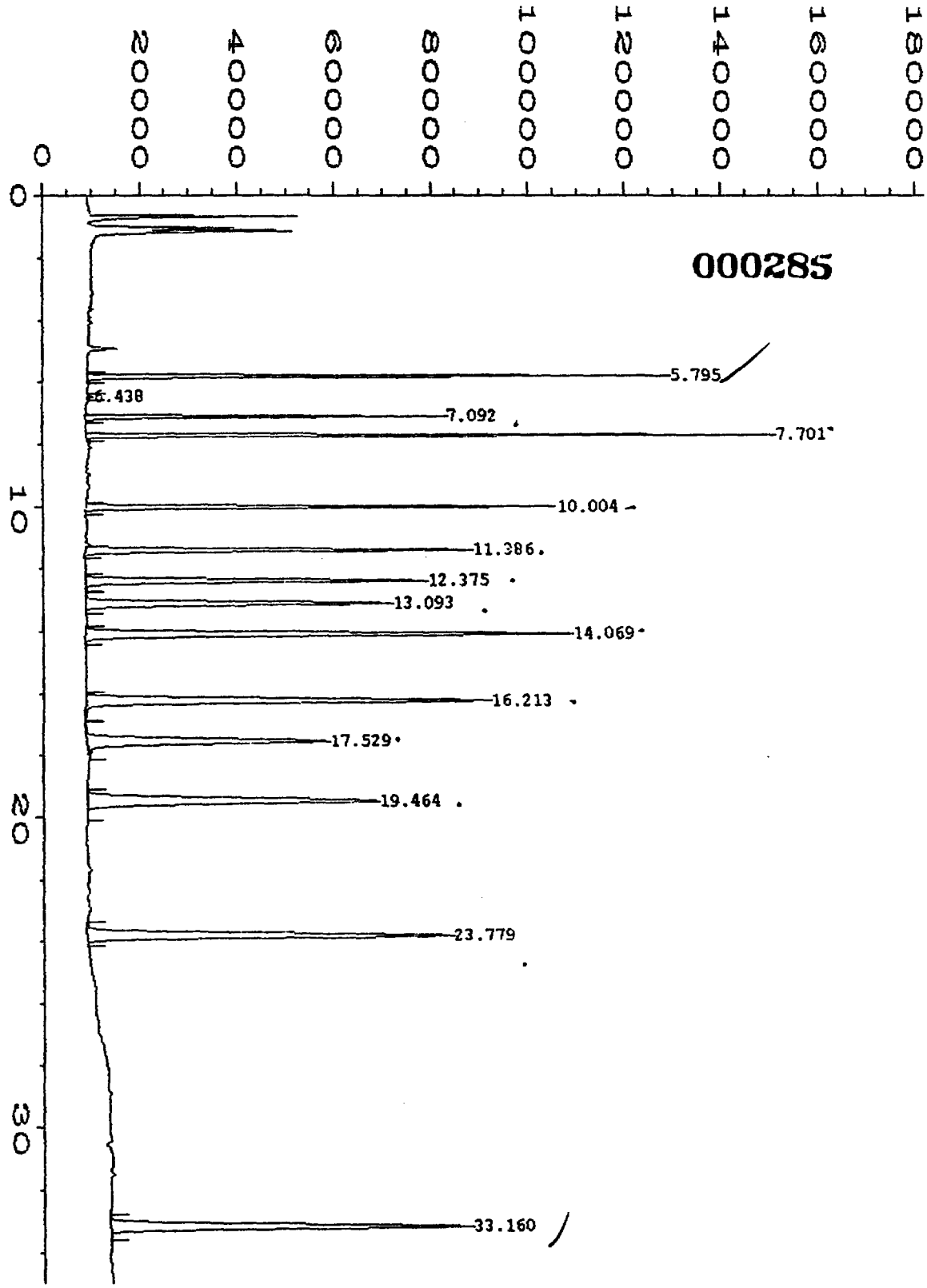
000284

Data File Name : C:\HPCHEM\3\DATA\30423CAL\022F1501.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-17-AF1
Run Time Bar Code:
Acquired on : 24 Apr 96 01:50 AM
Report Created on: 25 Apr 96 09:08 AM
Last Recalib on : 25 Apr 96 09:08 AM
Multiplier : 4
Sample Info : INDBHF1, HP3F , COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 15
Instrument Method: EPADB5P.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\022F1501.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.795	425946	BV	0.054	1	0.160	TCX
7.092	268500	BB	0.056	1	0.160	beta-BHC
7.701	495426	BB	0.054	1	0.160	delta-BHC
10.004	512772	BB	0.084	1	0.160	ALDRIN
11.386	518274	VB	0.102	1	0.160	HEPT. EPOXIDE
12.375	516482	BB	0.114	1	0.160	g. CHLORDANE
13.093	507562	BB	0.125	1	0.160	a. CHLORDANE
14.069	852776	BV	0.137	1	0.320	4,4'-DDE
16.213	876240	BB	0.165	1	0.320	ENDOSULFAN II
17.529	612049	BB	0.191	1	0.320	ENDRIN ALDEHYDE
19.464	802288	BB	0.208	1	0.320	ENDO. SULFATE
23.779	880614	BV	0.181	1	0.320	ENDRIN KETONE
33.160	789169	BB	0.166	1	0.320	DCB



Data File Name : C:\HPCHEM\3\DATA\30423CAL\022F1501.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-17-AF1
Run Time Bar Code:
Acquired on : 24 Apr 96 01:50 AM
Report Created on: 25 Apr 96 09:09 AM
Last Recalib on : 25 Apr 96 09:08 AM
Multiplier : 4
Sample Info : INDBHF1 , HP3F , COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 15
Instrument Method: EPADB5P.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

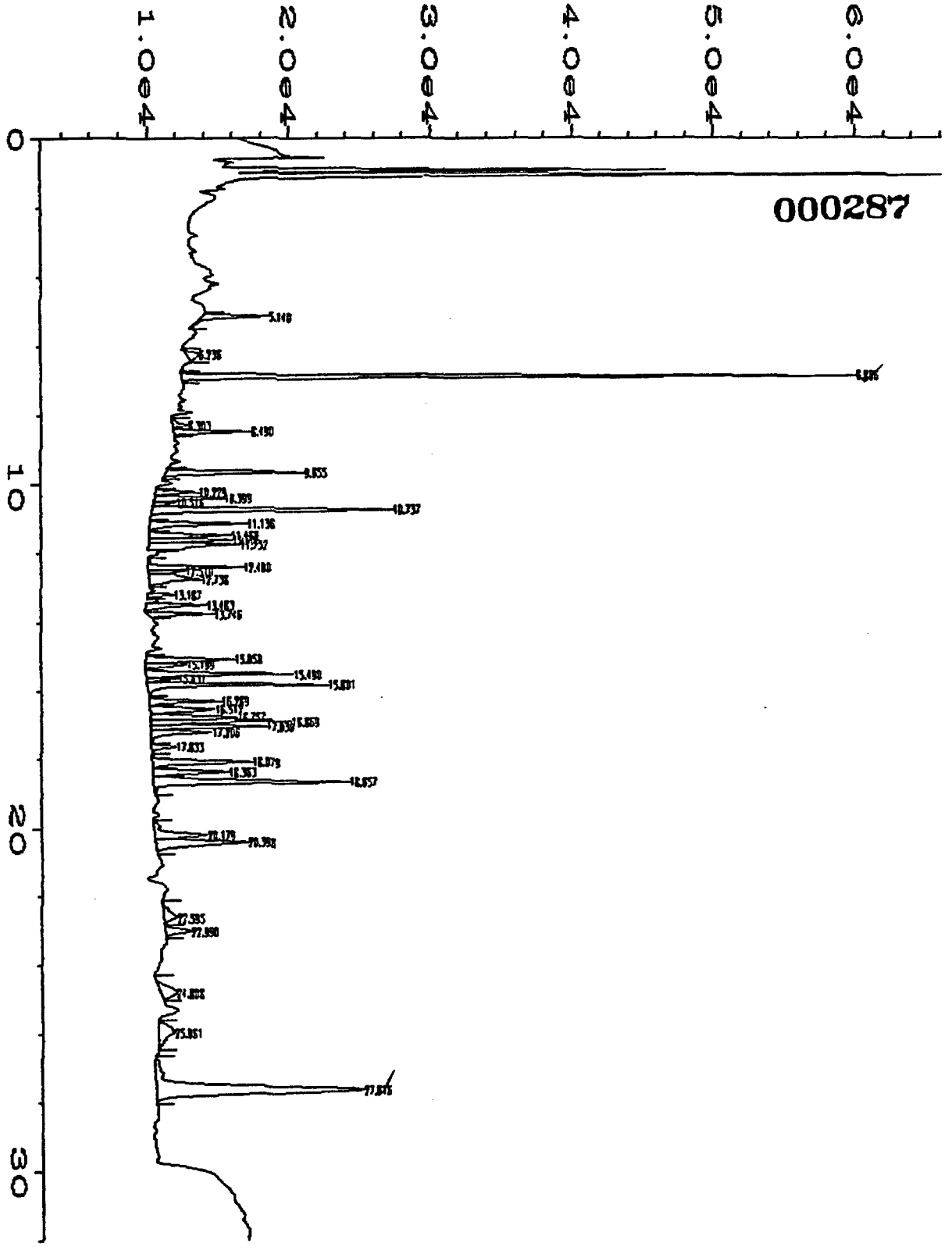
External Standard Report

000286

Data File Name	: C:\HPCHEM\3\DATA\3041496\006F0401.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3 F	Vial Number	: 6
Sample Name	: EPA1-20-A IF	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 14 Apr 96 02:55 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:25 PM	Analysis Method	: AR60-3F.MTH
Last Recalib on	: 15 Apr 96 04:25 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1660 IF, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

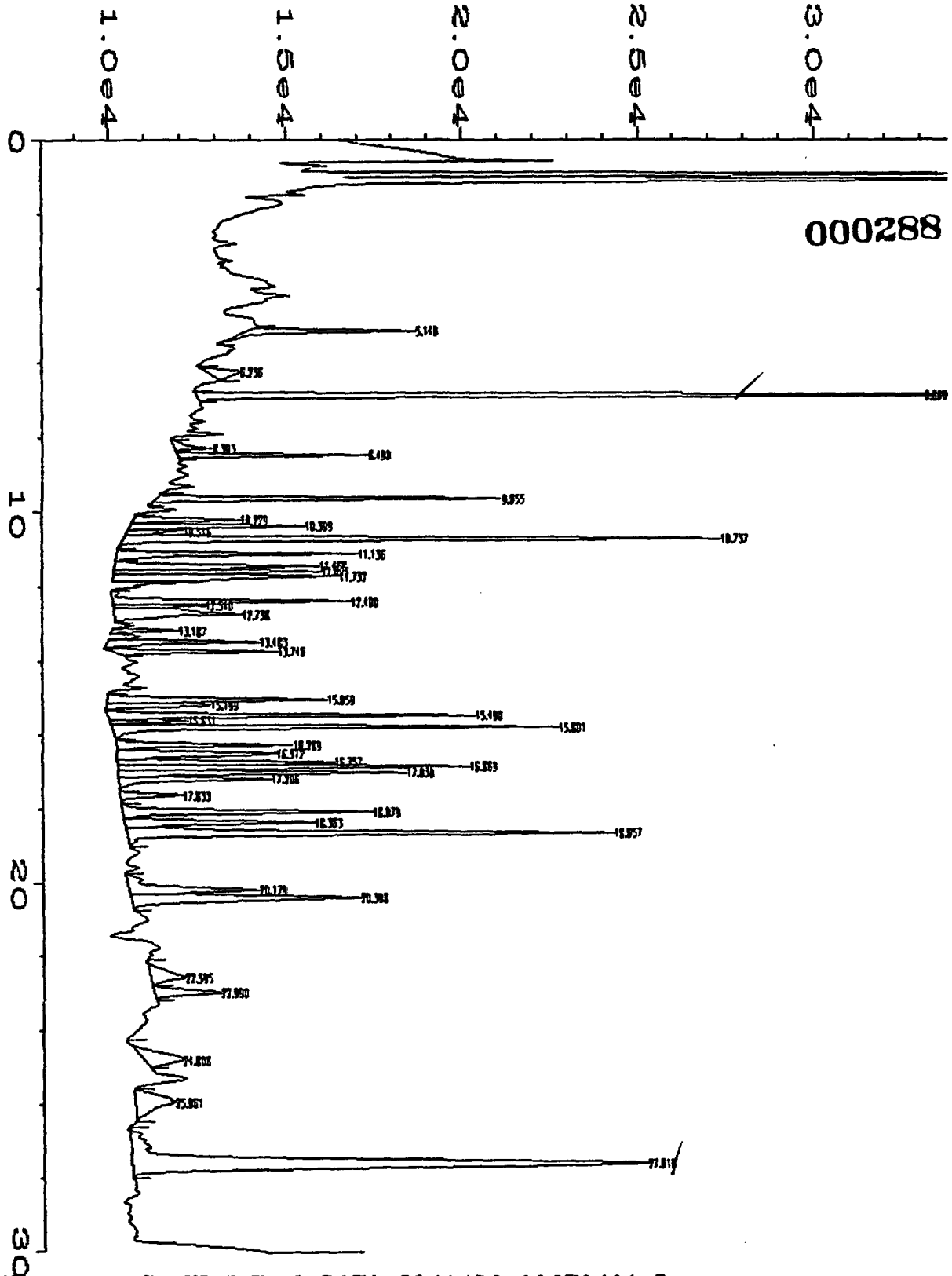
Sig. 1 in C:\HPCHEM\3\DATA\3041496\006F0401.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.866	214715	BB	0.071	1	0.0400	TCX
9.655	53250	BB	0.086	1	0.200	AROCLOR-1016
10.737	108437	VB	0.102	1	0.200	AROCLOR-1016-2
11.136	38850	BV	0.085	1	0.200	AROCLOR-1016-3
11.468	33923	VV	0.086	1	0.200	AROCLOR-1016-4
11.605	32063	VV	0.081	1	0.200	AROCLOR-1016-5
15.490	56515	PV	0.083	1	0.200	AROCLOR-1260
15.801	68559	VB	0.083	1	0.200	AROCLOR-1260-2
16.869	57758	VV	0.087	1	0.200	AROCLOR-1260-3
18.079	49038	BV	0.107	1	0.200	AROCLOR-1260-4
18.657	105430	VB	0.115	1	0.200	AROCLOR-1260-5
27.616	234328	BV	0.244	1	0.0400	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\006F0401.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 6
Sample Name	: EPA1-20-A	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 14 Apr 96 02:55 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:25 PM	Analysis Method	: AR60-3F.MTH
Last Recalib on	: 15 Apr 96 04:25 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1660\F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

14 JDM 4/15/96



Data File Name : C:\HPCHEM\3\DATA\3041496\006F0401.D
Operator : DLP AR1660IF
Instrument : HP3F RTX-35, 0.53mm
Sample Name : EPA1-20-AIF 2ul
Run Time Bar Code: 14 55 30m
Acquired on : 14 Apr 96 02:55 PM
Report Created on: 16 Apr 96 09:14 AM
Last Recalib on : 15 APR 96 04:25 PM
Multiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 4
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR60-3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

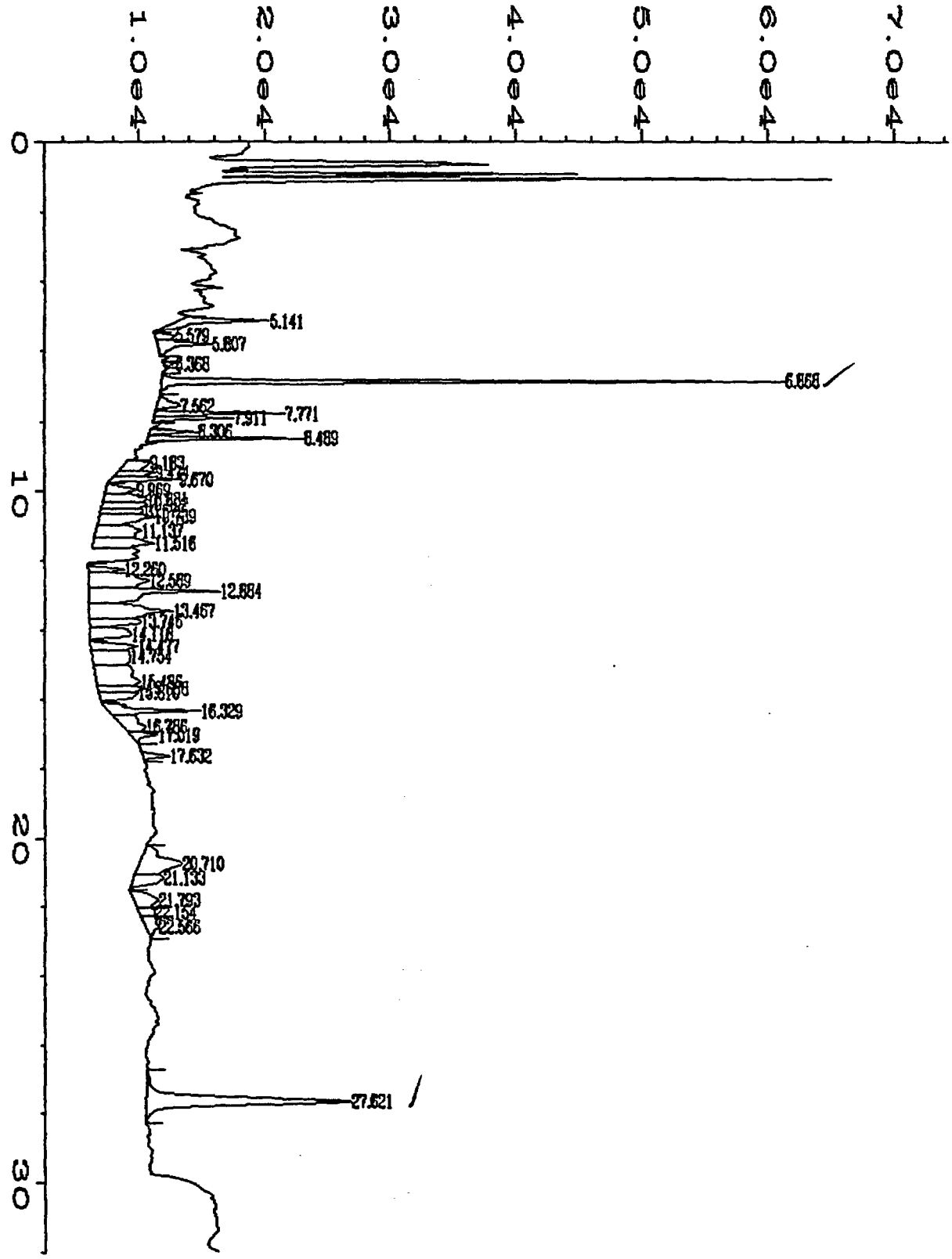
000289

Data File Name : C:\HPCHEM\3\DATA\3041496\007F0501.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-22-A|F
Run Time Bar Code:
Acquired on : 14 Apr 96 03:32 PM
Report Created on: 15 Apr 96 04:26 PM
Last Recalib on : 15 Apr 96 04:26 PM
Multiplier : 1
Sample Info : AR1221|F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 5
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR21-3F.MTH
Sample Amount : 0
ISTD Amount :

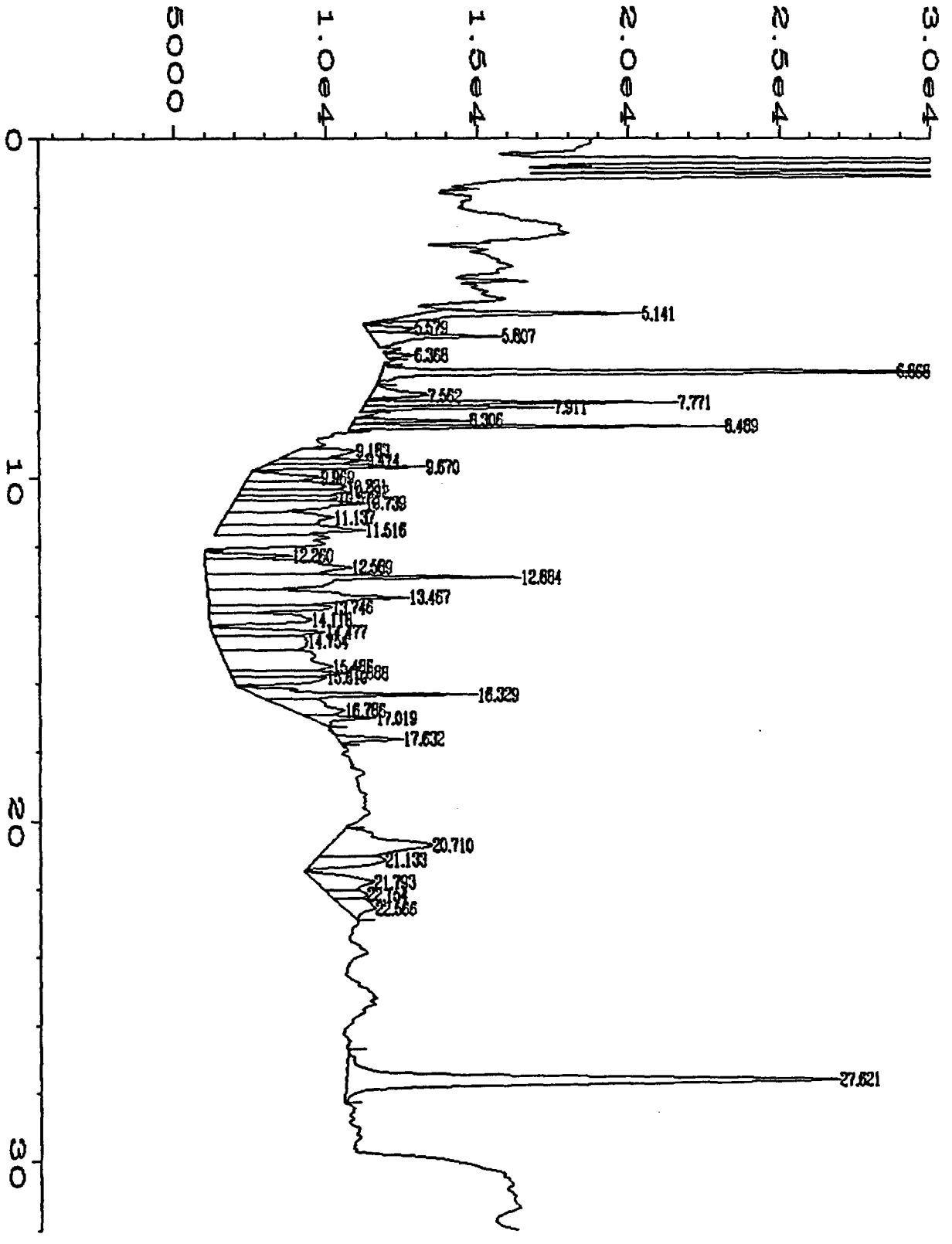
Sig. 1 in C:\HPCHEM\3\DATA\3041496\007F0501.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	236499	BB	0.073	1	0.0400	TCX
7.911	32251	VV	0.078	1	0.400	AROCLOR-1221
8.306	17983	VV	0.073	1	0.400	AROCLOR-1221-2
8.489	56456	VV	0.072	1	0.400	AROCLOR-1221-3
27.621	263364	BV	0.251	1	0.0400	DCB



Data File Name : C:\HPCHEM\3\DATA\3041496\007F0501.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-22-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 05:32 PM
Report Created on: 15 Apr 96 04:26 PM
Last Recalib on : 15 Apr 96 04:26 PM
Multiplier : 1
Sample Info : AR1221 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 5
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR21-3F.MTH
Sample Amount : 0
ISTD Amount :



Data File Name : C:\HPCHEM\3\DATA\3041496\007F0501.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-22-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 03:32 PM
Report Created on: 16 Apr 96 09:15 AM
Last Recalib on : 15 APR 96 04:26 PM
Multiplier : 1

AR12211F
RTx-35, 0.53mm
1532
2µl
30M

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 5
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR21-3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000292

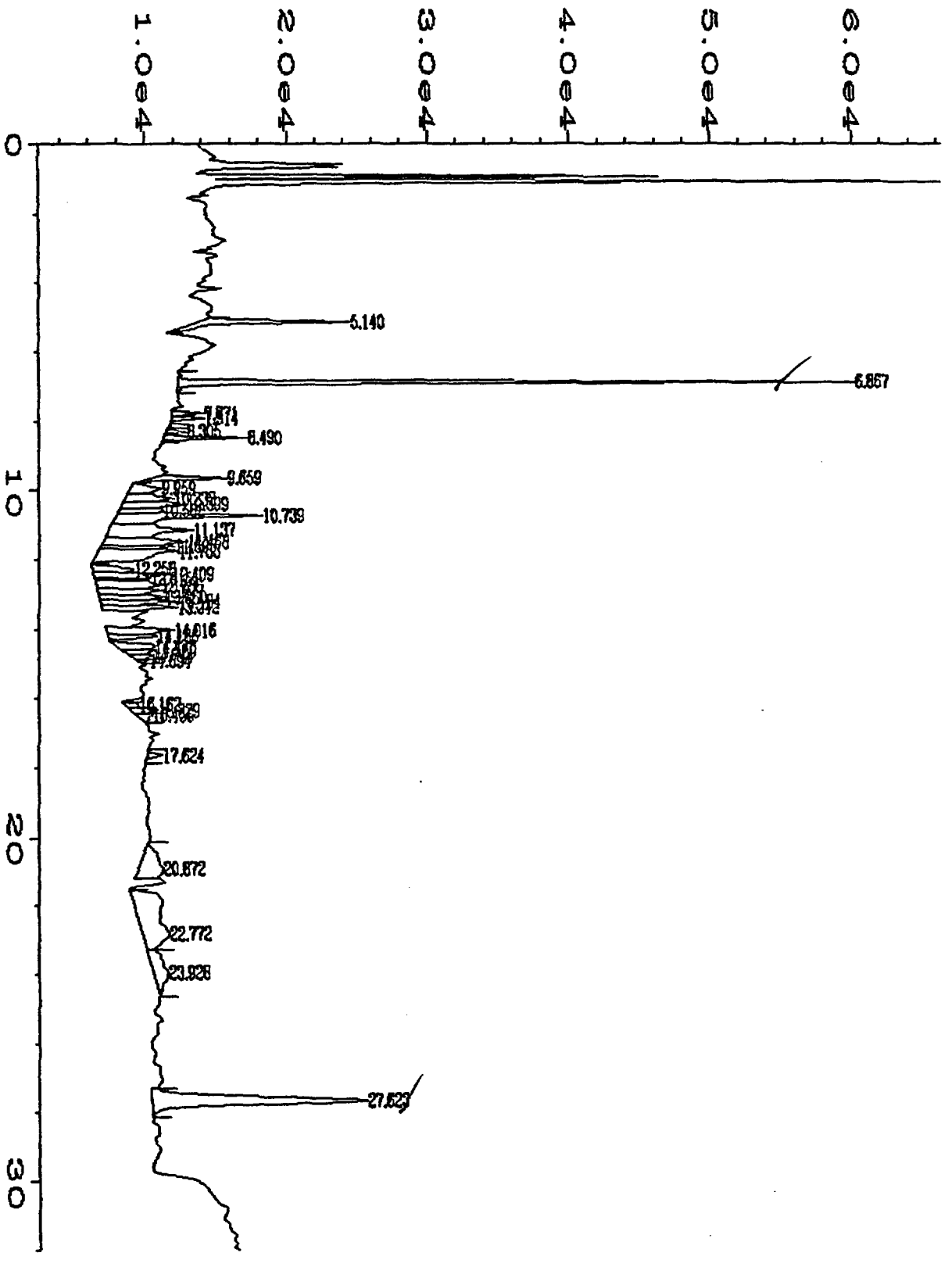
Data File Name : C:\HPCHEM\3\DATA\3041496\008F0601.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-24-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 04:08 PM
Report Created on: 15 Apr 96 04:27 PM
Last Recalib on : 15 Apr 96 04:27 PM
Multiplier : 1
Sample Info : AR1232 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 6
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR32-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\008F0601.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	221815	BB	0.072	1	0.0400	TCX
8.490	26818	PV	0.071	1	0.200	AROCLOR-1232
9.659	31456	BV	0.090	1	0.200	AROCLOR-1232-2
10.739	103045	VV	0.143	1	0.200	AROCLOR-1232-3
11.137	89053	VV	0.191	1	0.200	AROCLOR-1232-4
11.468	62568	VV	0.141	1	0.200	AROCLOR-1232-5
27.623	236699	VV	0.241	1	0.0400	DCB

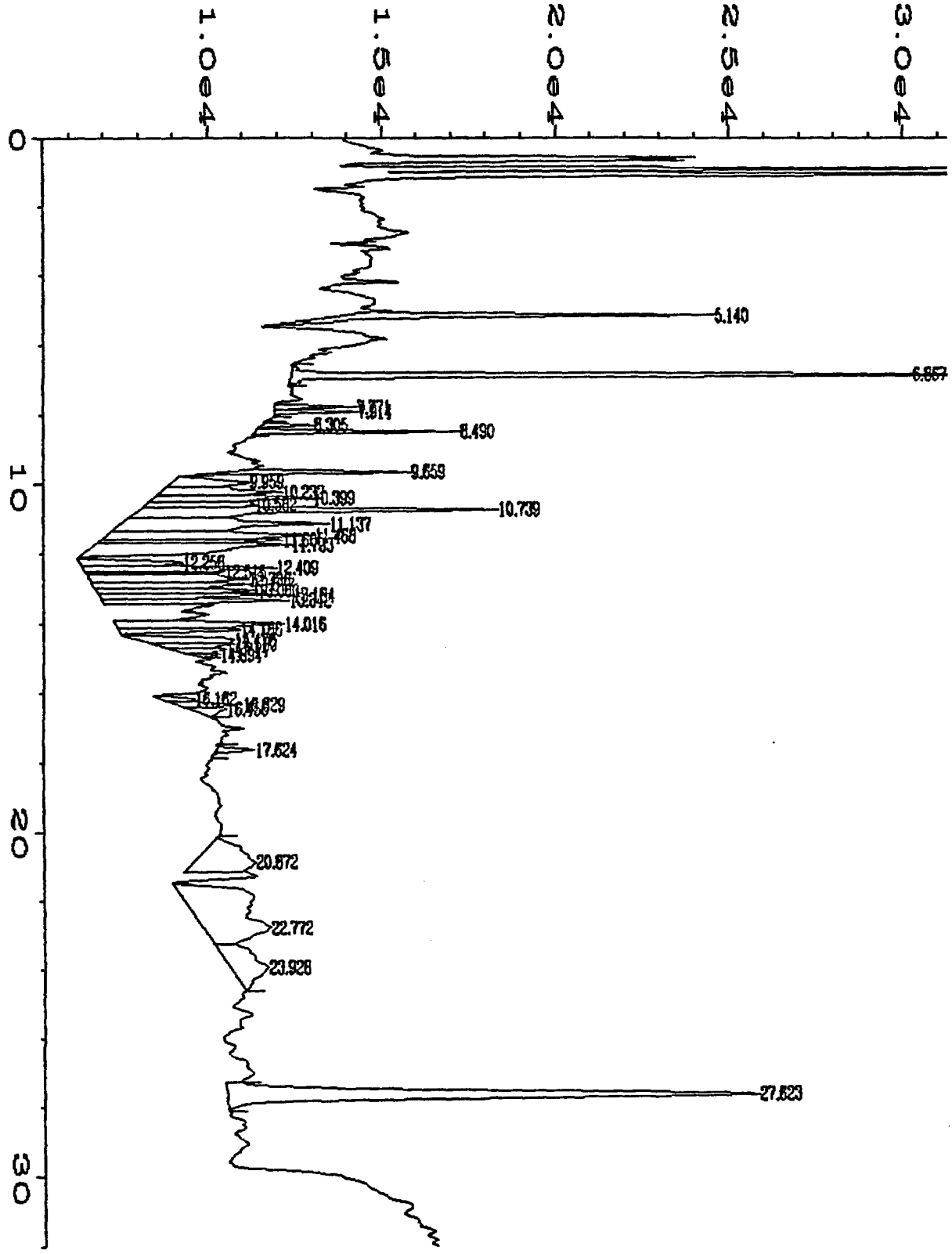
000293



Data File Name	: C:\HPCHEM\3\DATA\3041496\008F0601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 8
Sample Name	: EPA1-24-A\F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 6
Acquired on	: 14 Apr 96 04:08 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:27 PM	Analysis Method	: AR32-3F.MTH
Last Recalib on	: 15 Apr 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1232\F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

16

4/17/96



Data File Name	: C:\HPCHEM\3\DATA\3041496\008F0601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 8
Sample Name	: EPA1-24-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 6
Acquired on	: 14 Apr 96 04:08 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 09:17 AM	Analysis Method	: AR32-3F.MTH
Last Recalib on	: 15 APR 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

AR12321F
RTX-35 0.53mm
2µl
30m
16 08

External Standard Report

000295

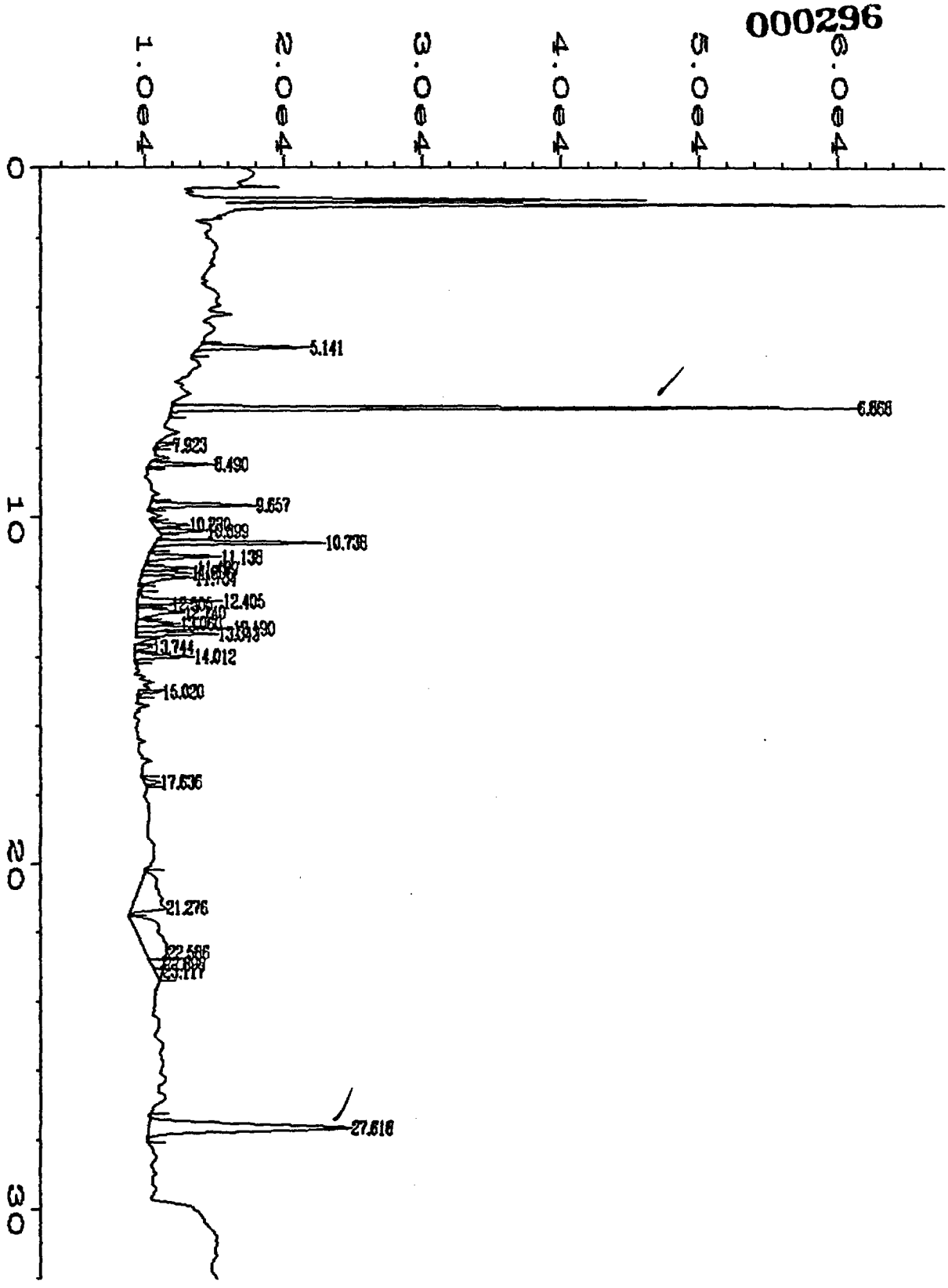
Data File Name : C:\HPCHEM\3\DATA\3041496\009F0701.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-26-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 04:44 PM
Report Created on: 15 Apr 96 04:27 PM
Last Recalib on : 15 Apr 96 04:27 PM
Multiplier : 1
Sample Info : AR1242 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

16 PB 4/15/96

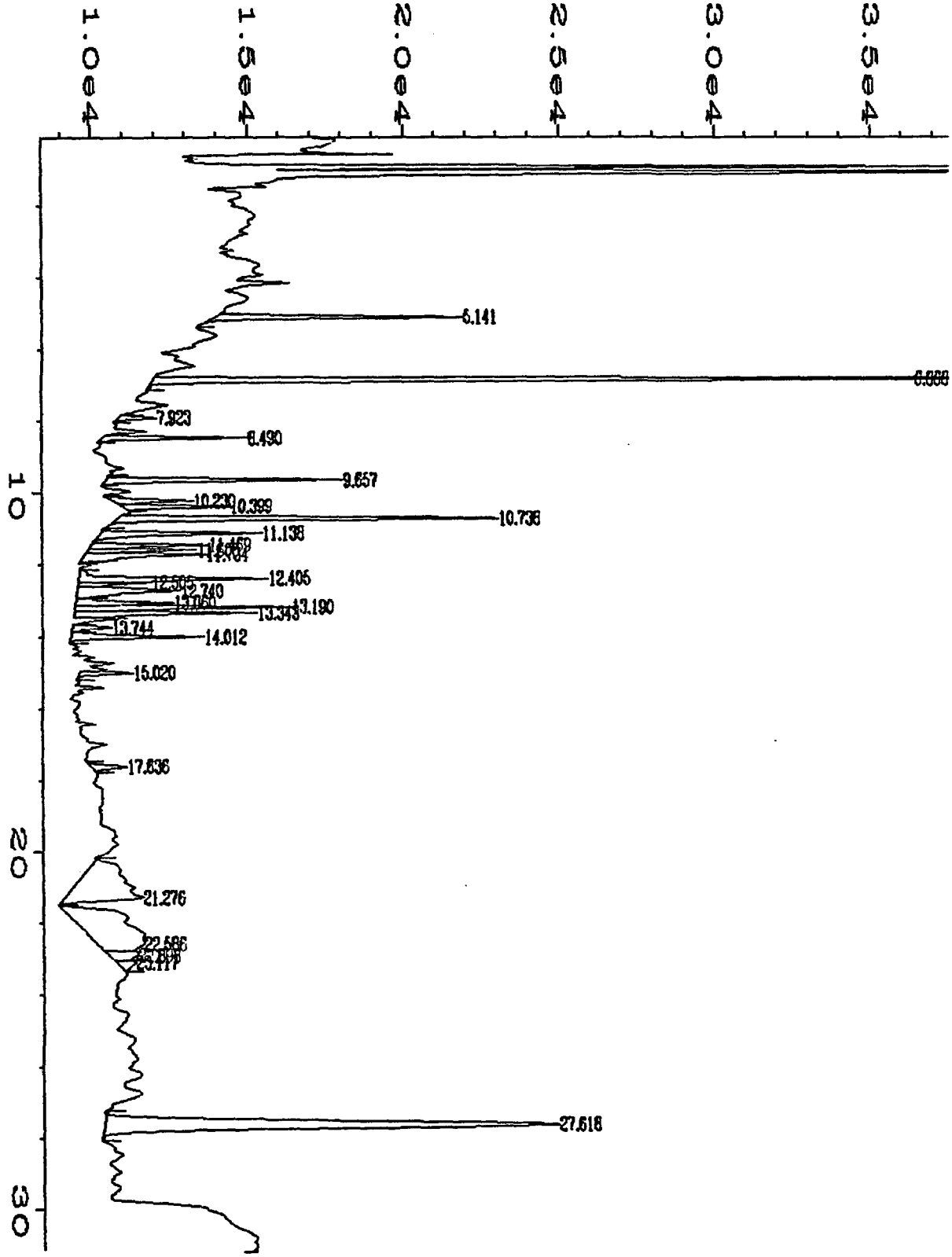
Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 7
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR42-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\009F0701.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	223180	PB	0.070	1	0.0400	TCX
8.490	21857	VV	0.073	1	0.200	AROCLOR-1242
9.657	41614	BB	0.086	1	0.200	AROCLOR-1242-2
10.738	73452	BB	0.098	1	0.200	AROCLOR-1242-3
12.405	37637	BV	0.093	1	0.200	AROCLOR-1242-4
13.190	36442	VV	0.080	1	0.200	AROCLOR-1242-5
27.618	212347	BV	0.226	1	0.0400	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\009F0701.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 9
Sample Name	: EPA1-26-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Apr 96 04:44 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:27 PM	Analysis Method	: AR42-3F.MTH
Last Recalib on	: 15 Apr 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1242|F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		



Data File Name	: C:\HPCHEM\3\DATA\3041496\009F0701.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 9
Sample Name	: EPA1-26-A1F	Injection Number	: 1
Time Bar Code	:	Sequence Line	: 7
Acquired on	: 14 Apr 96 04:44 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 09:18 AM	Analysis Method	: AR42-3F.MTH
Last Recalib on	: 15 APR 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

AR12421F
RTX-35
053 mm
16 44
2 µl
30 M

External Standard Report

000298

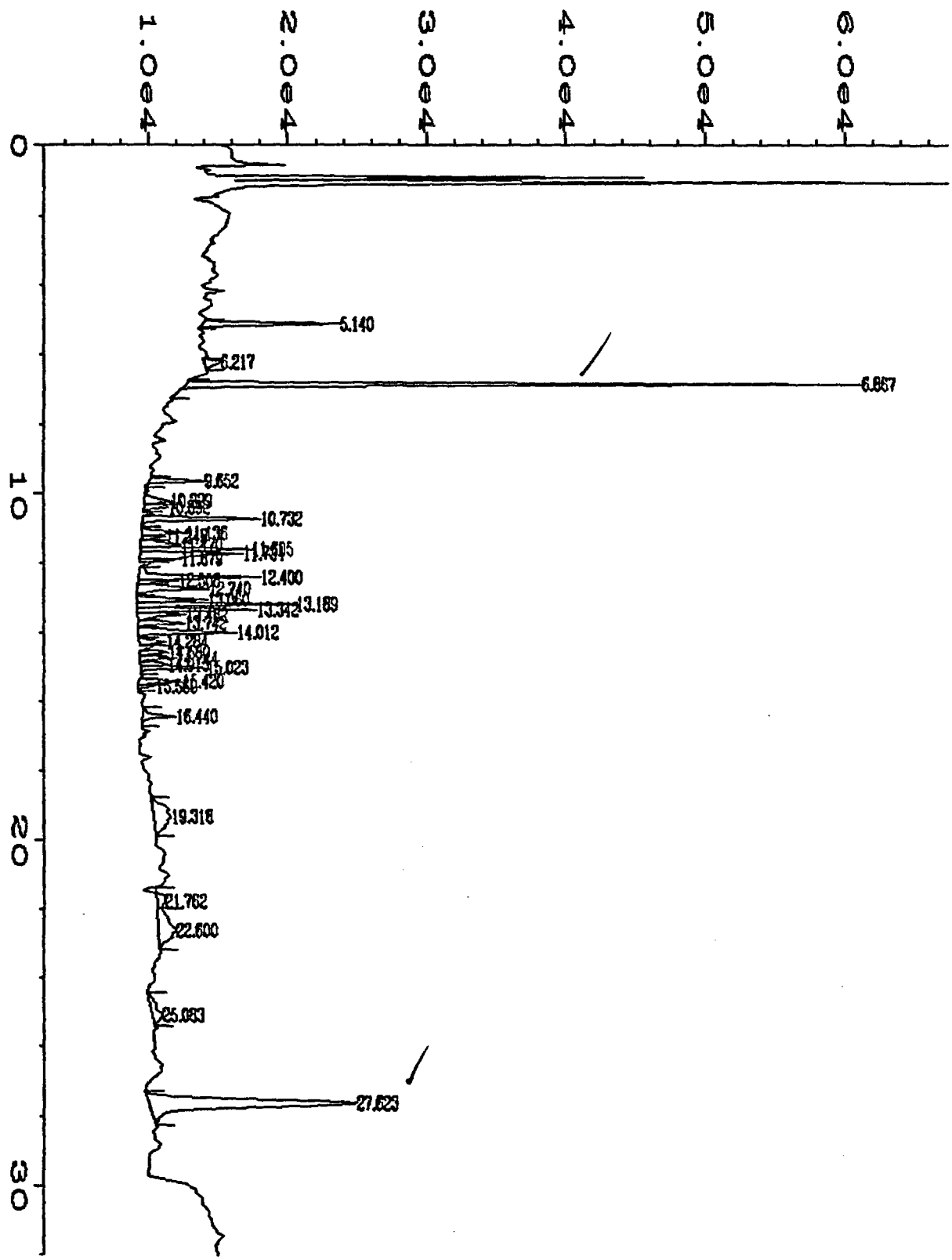
Data File Name : C:\HPCHEM\3\DATA\3041496\010F0801.D
Operator : DLP
Instrument : HP3 F
Sample Name : EPA1-28-A 1F
Run Time Bar Code:
Acquired on : 14 Apr 96 05:21 PM
Report Created on: 15 Apr 96 04:28 PM
Last Recalib on : 15 Apr 96 04:28 PM
Multiplier : 1
Sample Info : AR1248 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

17 4/15/96

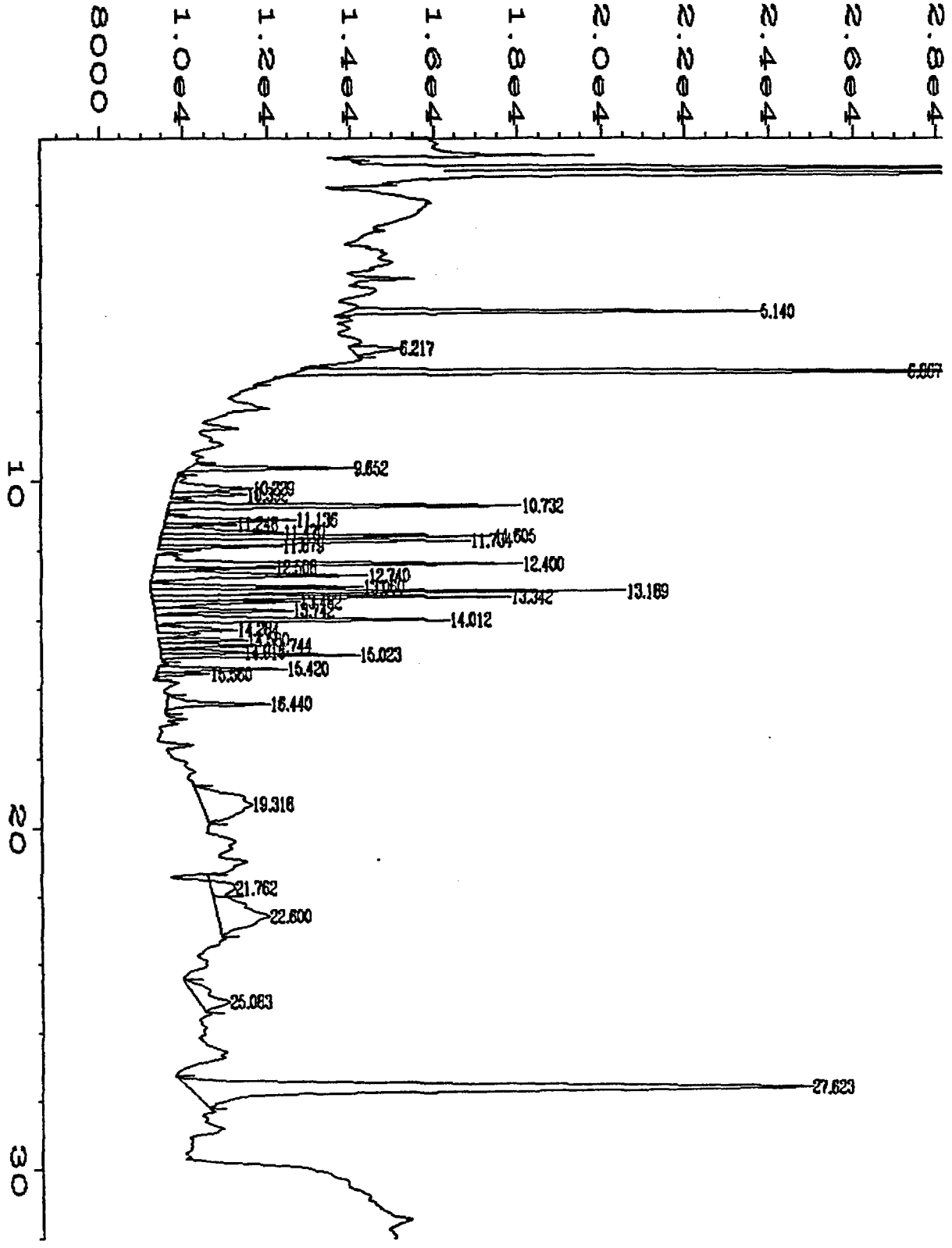
Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 8
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR48-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\010F0801.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	218067	BB	0.070	1	0.0400	TCX
11.605	43843	VV	0.083	1	0.200	AROCLOR-1248
12.400	51928	VV	0.088	1	0.200	AROCLOR-1248-2
13.189	57417	VV	0.078	1	0.200	AROCLOR-1248-3
13.342	43790	VV	0.078	1	0.200	AROCLOR-1248-4
14.012	45453	VV	0.094	1	0.200	AROCLOR-1248-5
27.623	233325	BV	0.244	1	0.0400	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\010F0801.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 10
Sample Name	: EPA1-28-A1F 4/15/96	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 8
Acquired on	: 14 Apr 96 05:21 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:28 PM	Analysis Method	: AR48-3F.MTH
Last Recalib on	: 15 Apr 96 04:28 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1248 1F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		



Data File Name	: C:\HPCHEM\3\DATA\3041496\010F0801.D		
Operator	: DLP AR1248IF	Page Number	: 1
Instrument	: HP3F	Vial Number	: 10
Sample Name	: EPA1-28-A1F RTX-35 0.53mm	Injection Number	: 1
Run Time Bar Code:	17 21	Sequence Line	: 8
Acquired on	: 14 Apr 96 05:21 PM 2µl	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 09:20 AM 30M	Analysis Method	: AR48-3F.MTH
Last Recalib on	: 15 APR 96 04:28 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

000301

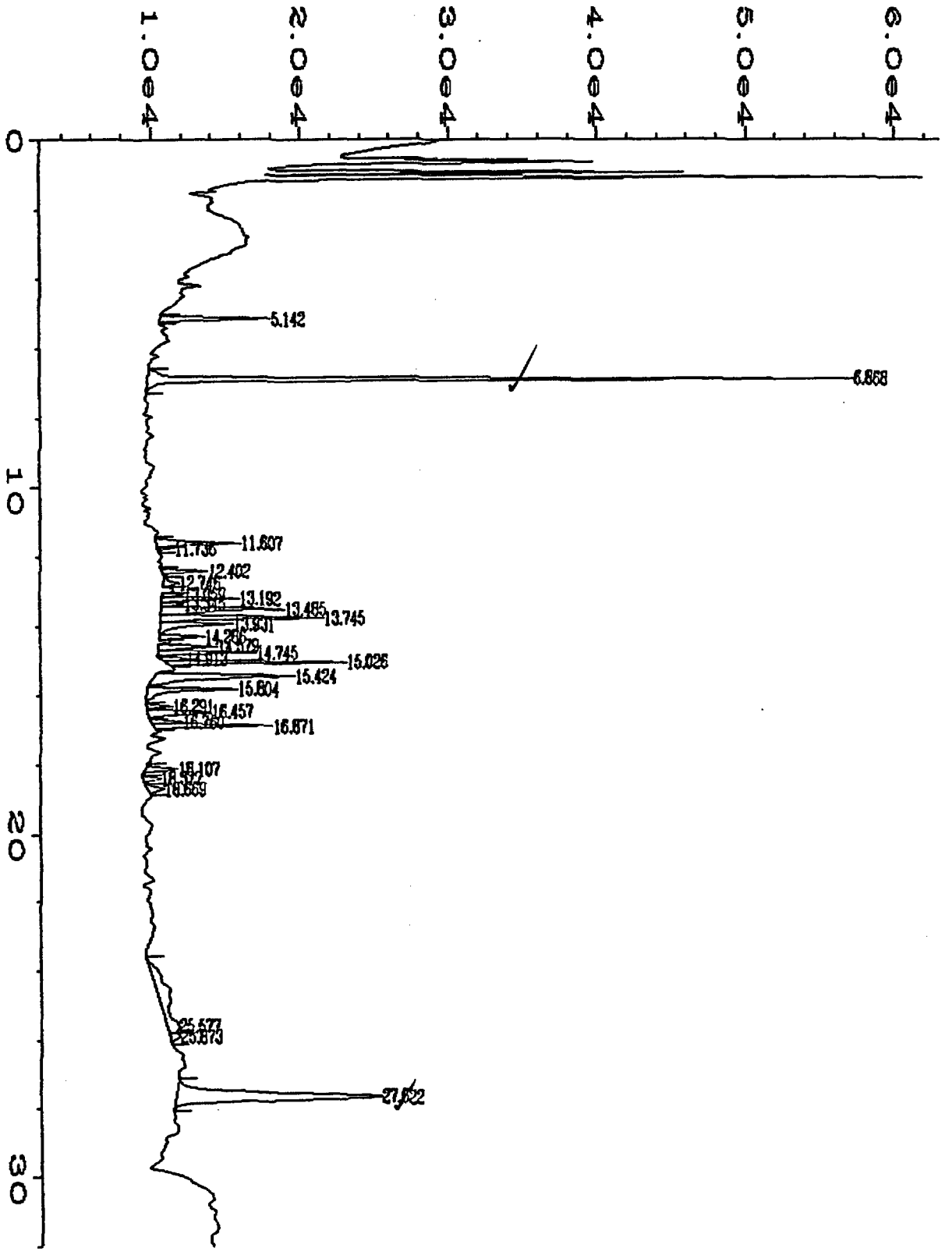
Data File Name : C:\HPCHEM\3\DATA\3041496\011F0901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-30-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 05:57 PM
Report Created on: 15 Apr 96 04:29 PM
Last Recalib on : 15 Apr 96 04:29 PM
Multiplier : 1
Sample Info : AR1254 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 9
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR54-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\011F0901.D

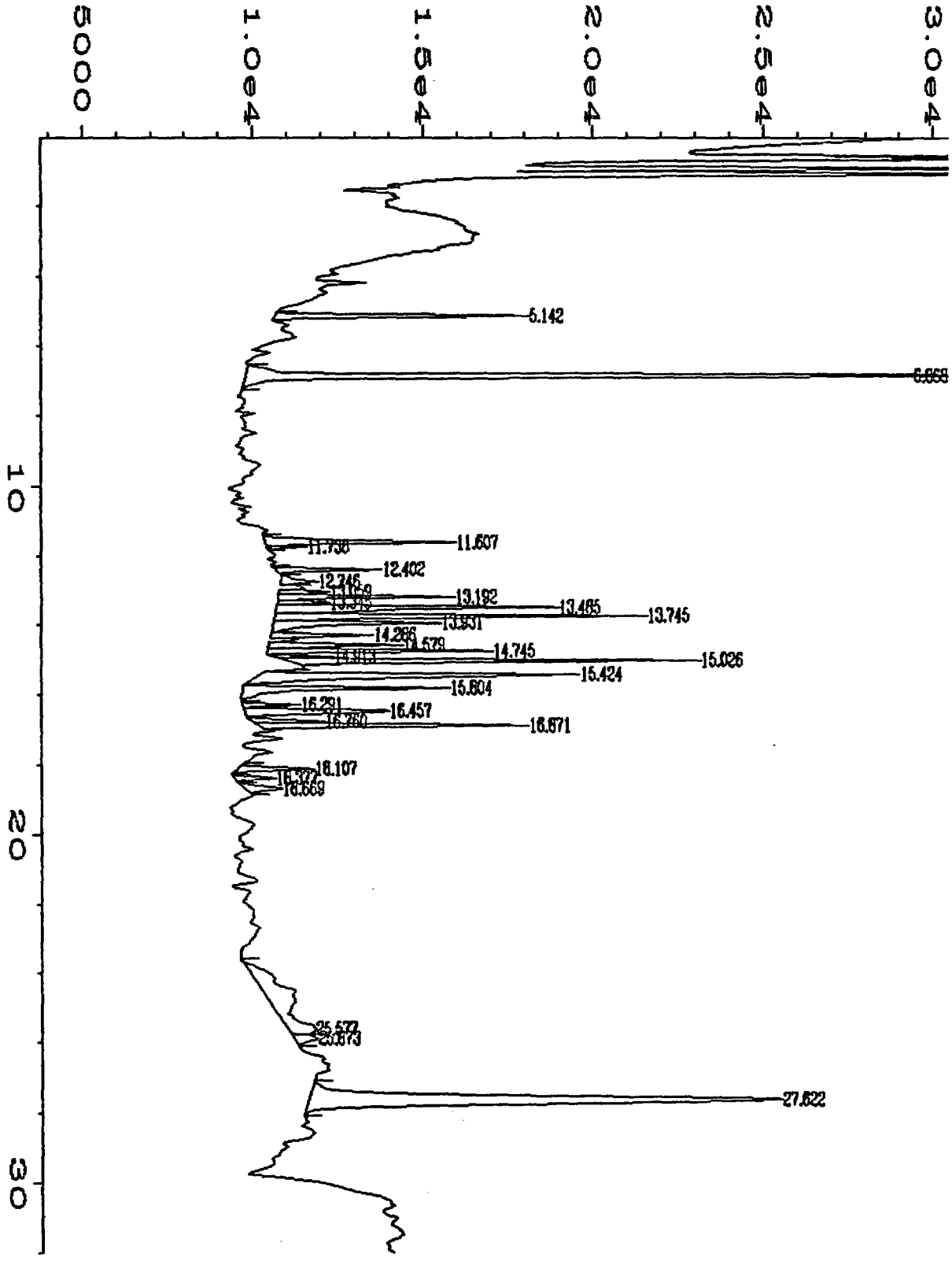
Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	232708	BB	0.075	1	0.0400	TCX
13.745	65780	VV	0.090	1	0.200	AROCLOR-1254
15.026	59643	VB	0.077	1	0.200	AROCLOR-1254-2
15.424	78449	PV	0.114	1	0.200	AROCLOR-1254-3
15.804	38904	PB	0.094	1	0.200	AROCLOR-1254-4
16.871	40864	VV	0.080	1	0.200	AROCLOR-1254-5
27.622	214335	BV	0.241	1	0.0400	DCB

000302



Data File Name	: C:\HPCHEM\3\DATA\3041496\011F0901.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 11
Sample Name	: EPA1-30-A1F JH 4/16/96	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 14 Apr 96 05:57 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:29 PM	Analysis Method	: AR54-3F.MTH
Last Recalib on	: 15 Apr 96 04:29 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1254 1F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

000303



Data File Name : C:\HPCHEM\3\DATA\3041496\011F0901.D
Operator : DLP AR1254 1F
Instrument : HP3F RTX-35
Sample Name : EPA1-30-A1F 0.53mm
Run Time Bar Code: 17 57
Acquired on : 14 Apr 96 05:57 PM 2µl
Report Created on: 16 Apr 96 09:21 AM 30M
Last Recalib on : 15 APR 96 04:29 PM
Multiplier : 1

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 9
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR54-3F.MTH
Sample Amount : 0
ISTD Amount :

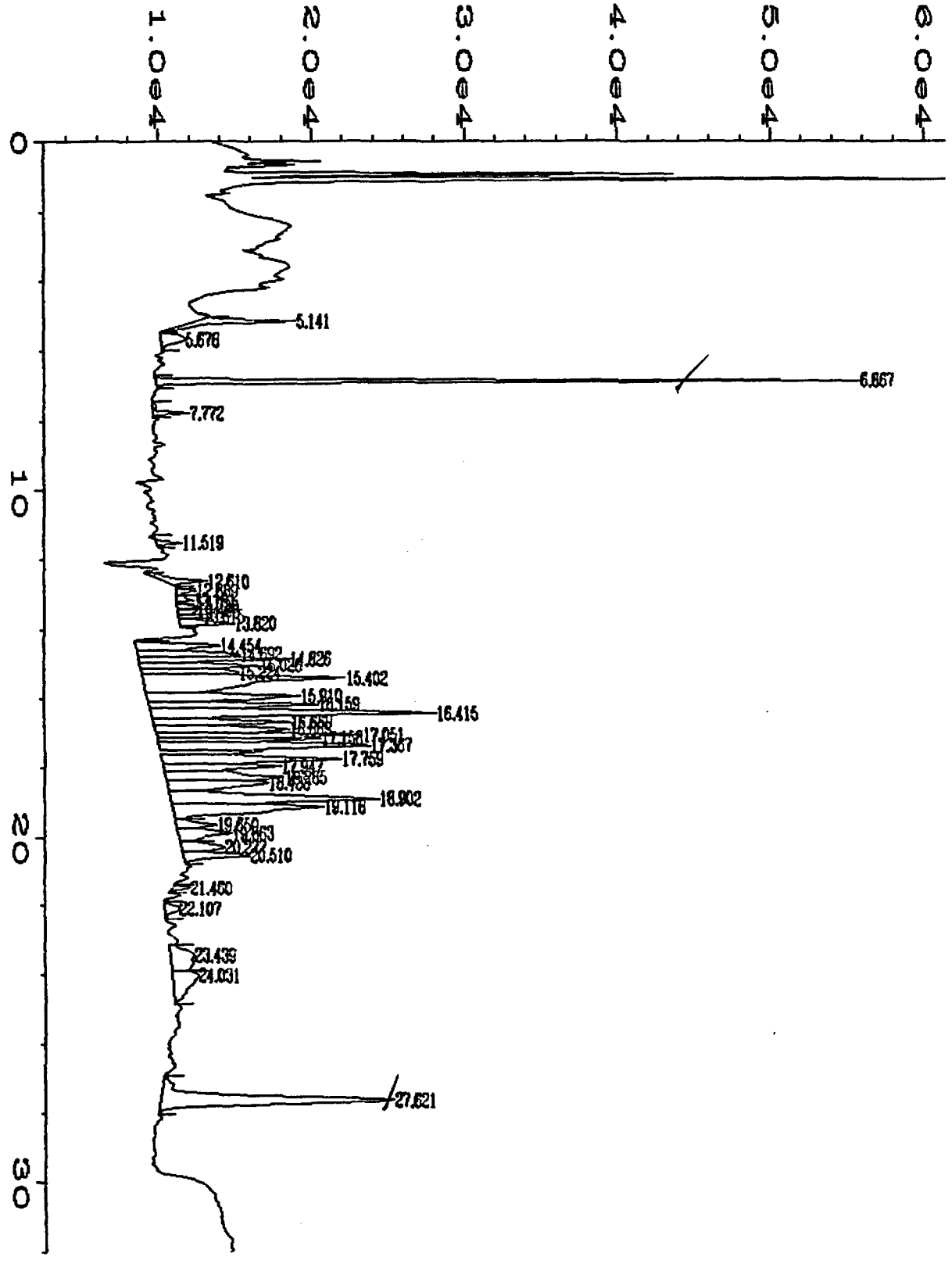
External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3041496\012F1001.D **000304**
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-32-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 06:34 PM
Report Created on: 15 Apr 96 04:29 PM
Last Recalib on : 15 Apr 96 04:29 PM
Multiplier : 1
Sample Info : TOXAPH1F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 10
Instrument Method: EPAMTH_F.MTH
Analysis Method : TOX3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\012F1001.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	204923	BV	0.070	1	0.0400	TCX
16.415	191006	VV	0.145	1	1.000	TOXAPHENE
17.051	96321	VV	0.104	1	1.000	TOXAPHENE-2
17.367	148053	VV	0.165	1	1.000	TOXAPHENE-3
18.902	174907	VV	0.175	1	1.000	TOXAPHENE-4
19.118	145614	VV	0.200	1	1.000	TOXAPHENE-5
27.621	247567	VV	0.249	1	0.0400	DCB

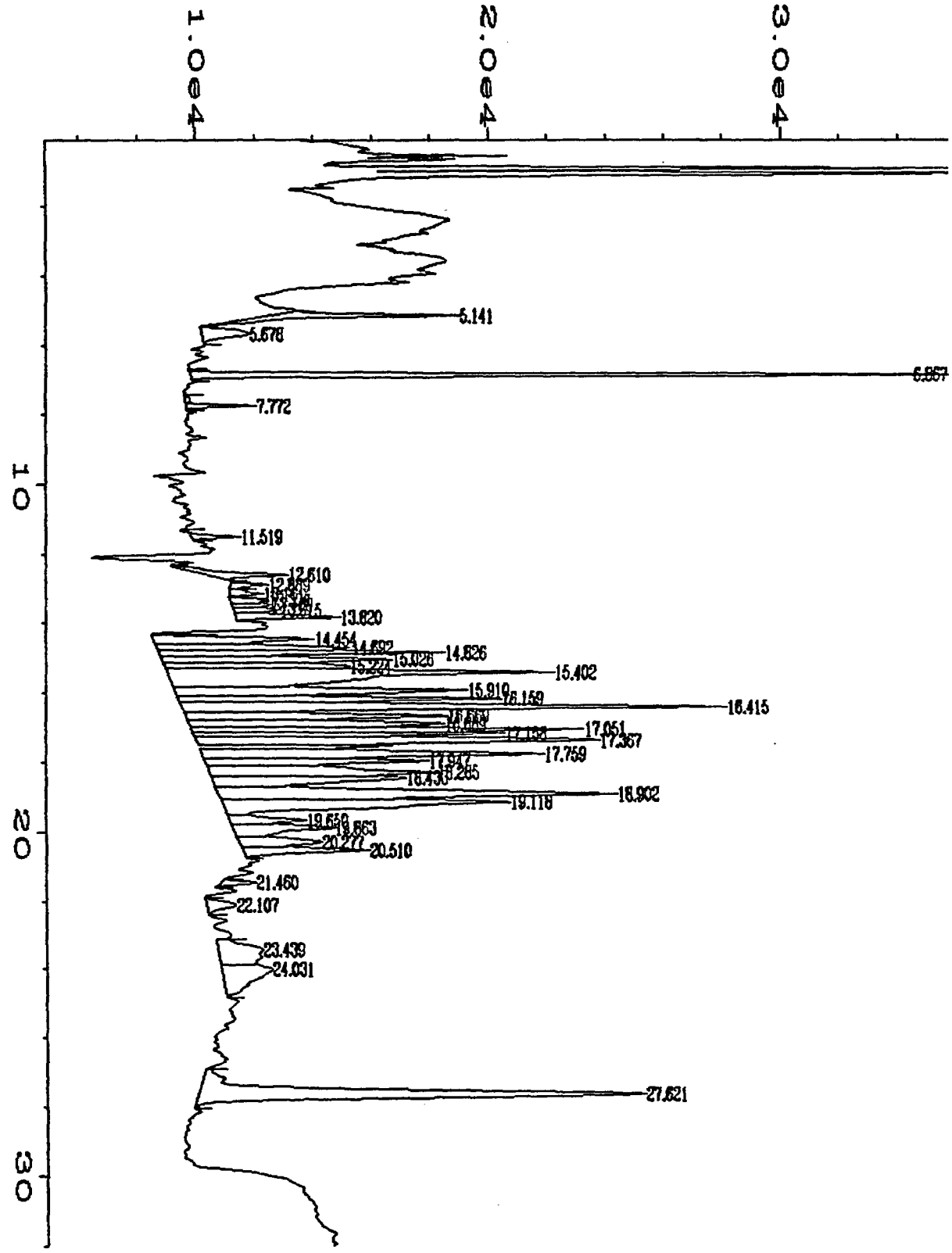


Data File Name : C:\HPCHEM\3\DATA\3041496\012F1001.D
Operator : DLP
Instrument : HP3 F
Sample Name : EPA1-32-A 1F
Run Time Bar Code:
Acquired on : 14 Apr 96 06:34 PM
Report Created on: 15 Apr 96 04:30 PM
Last Recalib on : 15 Apr 96 04:29 PM
Multiplier : 1
Sample Info : TOXAPH 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 10
Instrument Method: EPAMTH_F.MTH
Analysis Method : TOX3F.MTH
Sample Amount : 0
ISTD Amount :

18

4/15/96



Data File Name	: C:\HPCHEM\3\DATA\3041496\012F1001.D		
Operator	: DLP TOXAPH 1F	Page Number	: 1
Instrument	: HP3F RTX-35	Vial Number	: 12
Sample Name	: EPA1-32-A1F	Injection Number	: 1
Run Time Bar Code:	1834 0.53mm	Sequence Line	: 10
Acquired on	: 14 Apr 96 06:34 PM 2µl	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 09:22 AM 30m	Analysis Method	: TOX3F.MTH
Last Recalib on	: 15 APR 96 04:29 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

000307

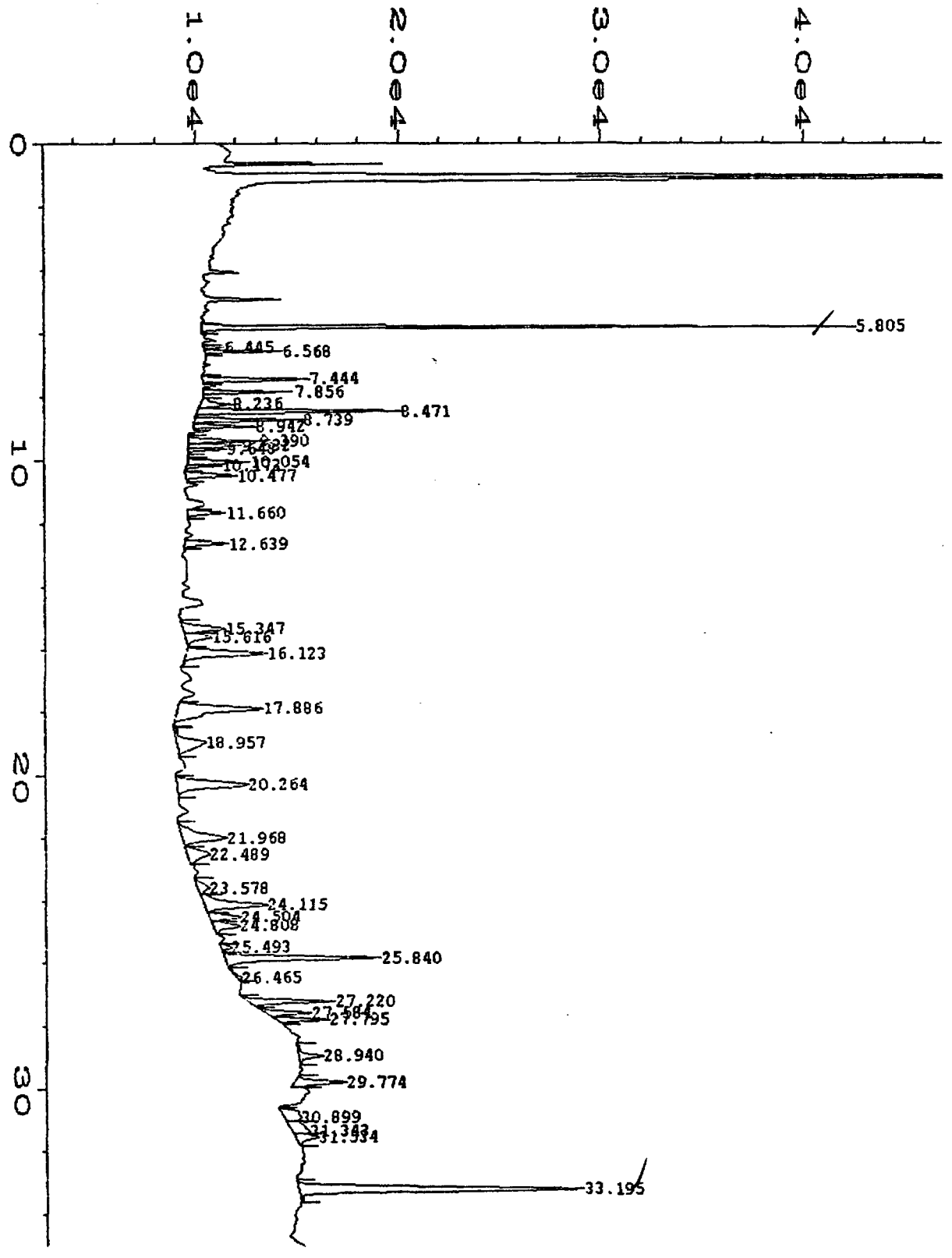
Data File Name : C:\HPCHEM\3\DATA\30423CAL\005F0301.D
rator : DLP
trument : HP3F
Sample Name : EPA1-20-AF1
Run Time Bar Code: 14 39
Acquired on : 23 Apr 96 02:39 PM
Report Created on: 25 Apr 96 08:57 AM
Last Recalib on : 25 APR 96 08:29 AM
Multiplier : 1
Sample Info : AR1660F1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 3
Instrument Method: EPADB5P.MTH
Analysis Method : AR60-3F.MTH
Sample Amount : 0
ISTD Amount :

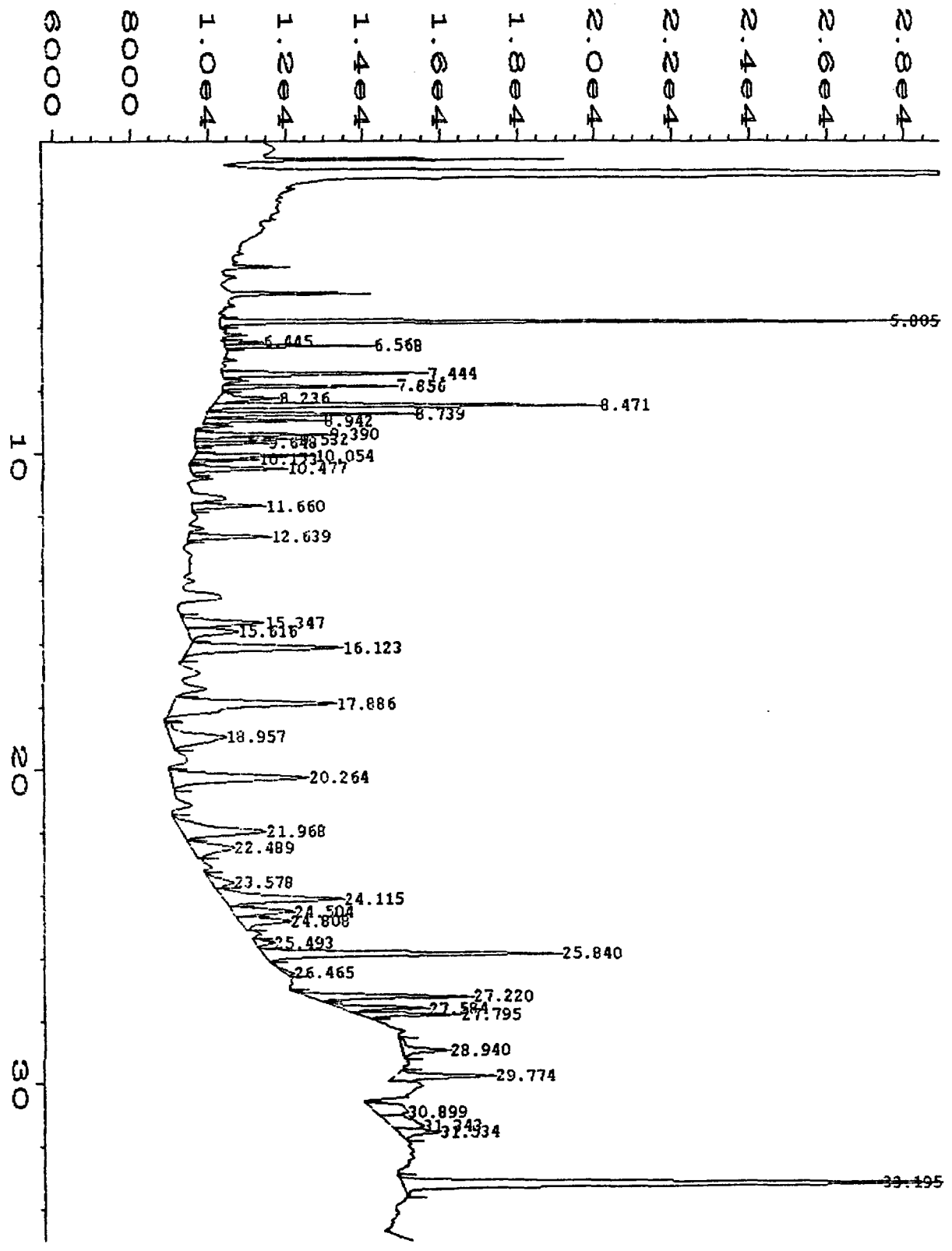
Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\005F0301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.805	116461	BV	0.055	1	0.0400	TCX
7.444	30363	BV	0.079	1	0.200	AROCLOR-1016
7.856	18660	BB	0.064	1	0.200	AROCLOR-1016-2
8.471	60469	VV	0.097	1	0.200	AROCLOR-1016-3
8.739	24764	PV	0.072	1	0.200	AROCLOR-1016-4
8.942	14241	VV	0.072	1	0.200	AROCLOR-1016-5
17.886	67285	VB	0.236	1	0.200	AROCLOR-1260
24.115	42568	VV	0.205	1	0.200	AROCLOR-1260-2
25.840	67049	PV	0.134	1	0.200	AROCLOR-1260-3
27.220	30684	BV	0.115	1	0.200	AROCLOR-1260-4
29.774	23233	BV	0.133	1	0.200	AROCLOR-1260-5
33.195	144943	BB	0.162	1	0.0400	DCB

000308



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\005F0301.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 5
Sample Name	: EPA1-20-AF1	Injection Number	: 1
Run Time Bar Code:	14 39	Sequence Line	: 3
Acquired on	: 23 Apr 96 02:39 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 08:57 AM	Analysis Method	: AR60-3F.MTH
Last Recalib on	: 25 APR 96 08:29 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1660F1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M		



Data File Name : C:\HPCHEM\3\DATA\30423CAL\005F0301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-20-AF
Run Time Bar Code:
Acquired on : 23 Apr 96 02:39 PM
Report Created on: 25 Apr 96 03:47 PM
Last Recalib on : 25 APR 96 08:29 AM
Multiplier : 1

AR1660F1
DB-5
.53mm
2µl
30m

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 3
Instrument Method: EPADB5P.MTH
Analysis Method : AR60-3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000310

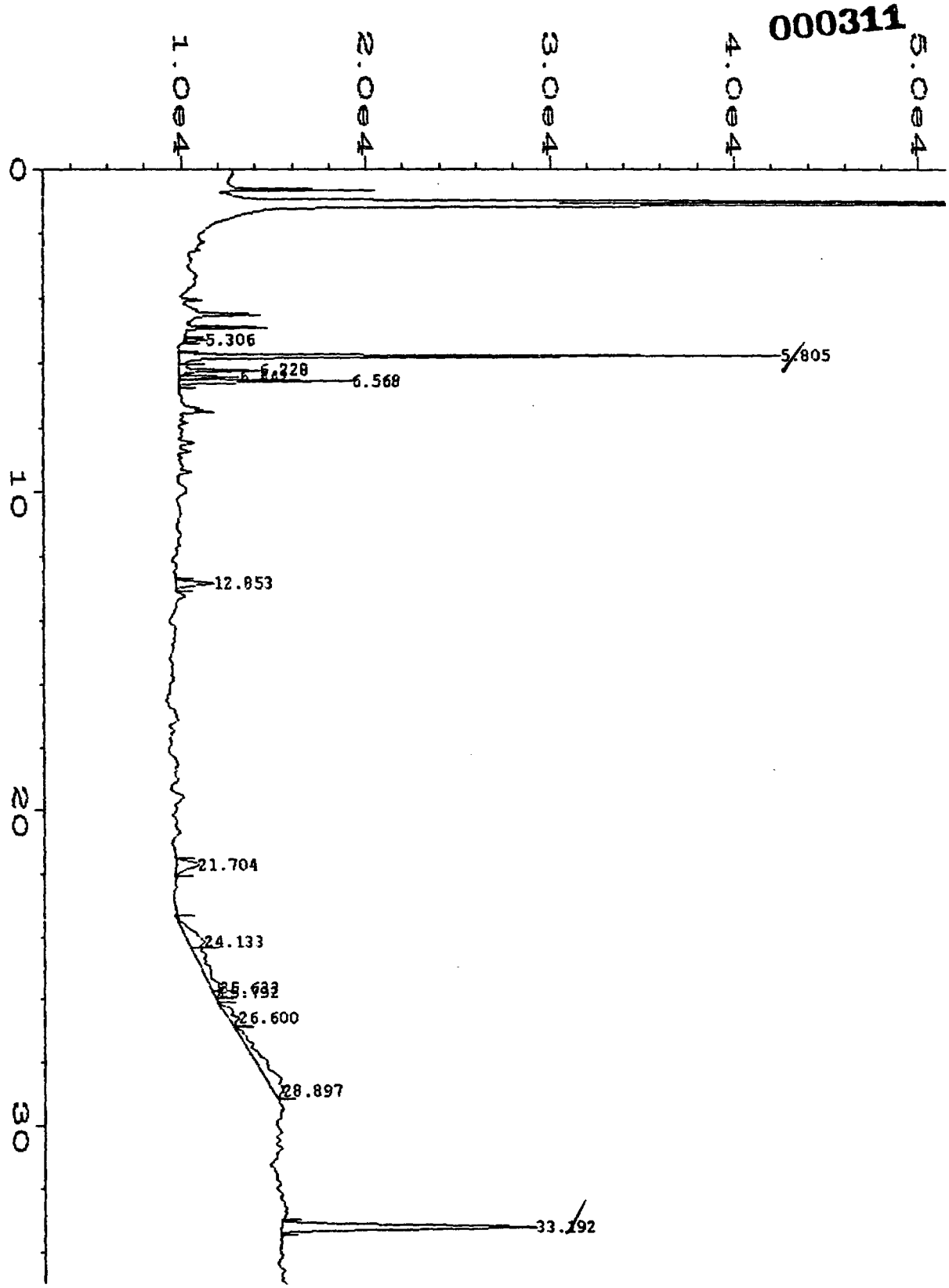
Data File Name : C:\HPCHEM\3\DATA\30423CAL\006F0401.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-22-AF1
Run Time Bar Code: 15 19
Acquired on : 23 Apr 96 03:19 PM
Report Created on: 25 Apr 96 08:58 AM
Last Recalib on : 25 APR 96 08:28 AM
Multiplier : 1
Sample Info : AR1221F1, HP3F, COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 4
Instrument Method: EPADB5P.MTH
Analysis Method : AR21-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\006F0401.D

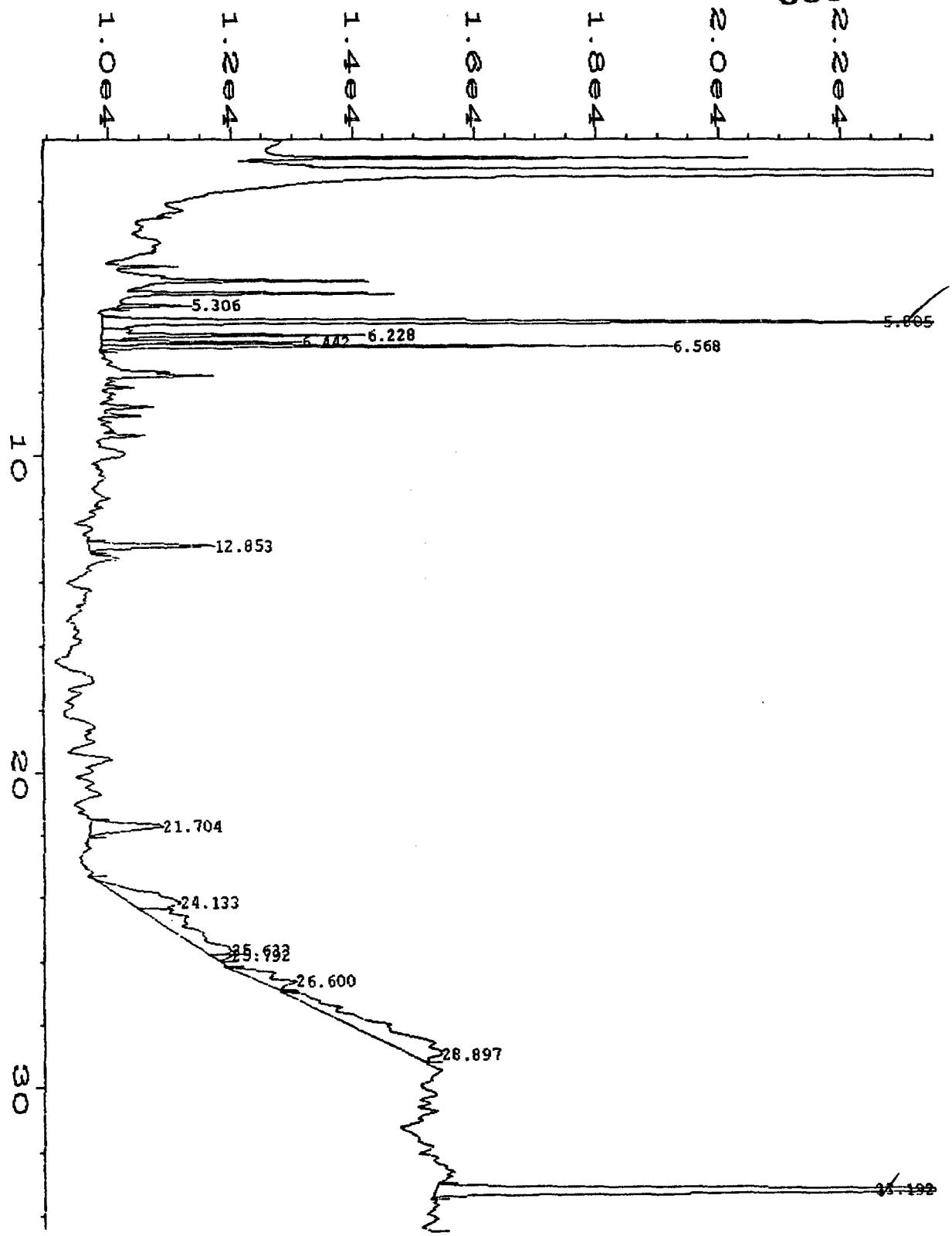
Ret Time	Area	Type	Width	Ref#	ng	Name
5.805	128187	BV	0.059	1	0.0400	TCX
6.228	23935	VV	0.079	1	0.400	AROCLOR-1221
6.442	12893	VV	0.060	1	0.400	AROCLOR-1221-2
6.568	38675	VB	0.063	1	0.400	AROCLOR-1221-3
33.192	134810	BB	0.152	1	0.0400	DCB

000311



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\006F0401.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 6
Sample Name	: EPA1-22-AF1	Injection Number	: 1
Run Time Bar Code:	1519	Sequence Line	: 4
Acquired on	: 23 Apr 96 03:19 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 08:58 AM	Analysis Method	: AR21-3F.MTH
Last Recalib on	: 25 APR 96 08:28 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1221F1, HP3F, COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M		

000312



Data File Name : C:\HPCHEM\3\DATA\30423CAL\006F0401.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-22-AF1
Run Time Bar Code:
Acquired on : 23 Apr 96 03:19 PM
Report Created on: 25 Apr 96 03:48 PM
Last Recalib on : 25 APR 96 08:28 AM
Multiplier : 1

AR1221F1
DB-5
.53mm
2µ
30M
15 19

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 4
Instrument Method: EPADB5P.MTH
Analysis Method : AR21-3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

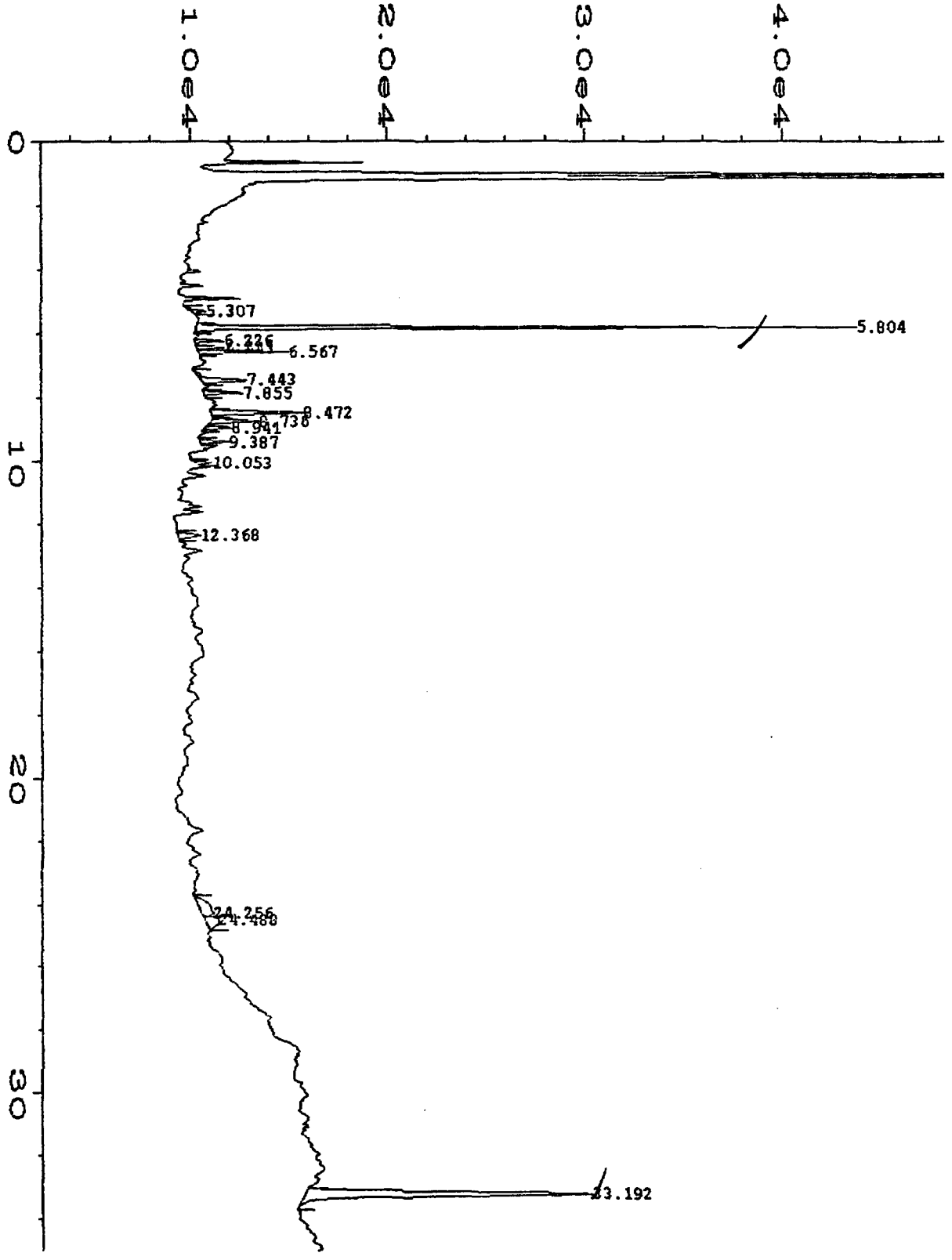
Data File Name : C:\HPCHEM\3\DATA\30423CAL\007F0501.D 000313
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-24-AF1
Run Time Bar Code:
Acquired on : 23 Apr 96 03:58 PM 1558
Report Created on: 25 Apr 96 08:58 AM
Last Recalib on : 25 APR 96 08:32 AM
Multiplier : 1
Sample Info : AR1232F1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 5
Instrument Method: EPADB5P.MTH
Analysis Method : AR32-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\007F0501.D

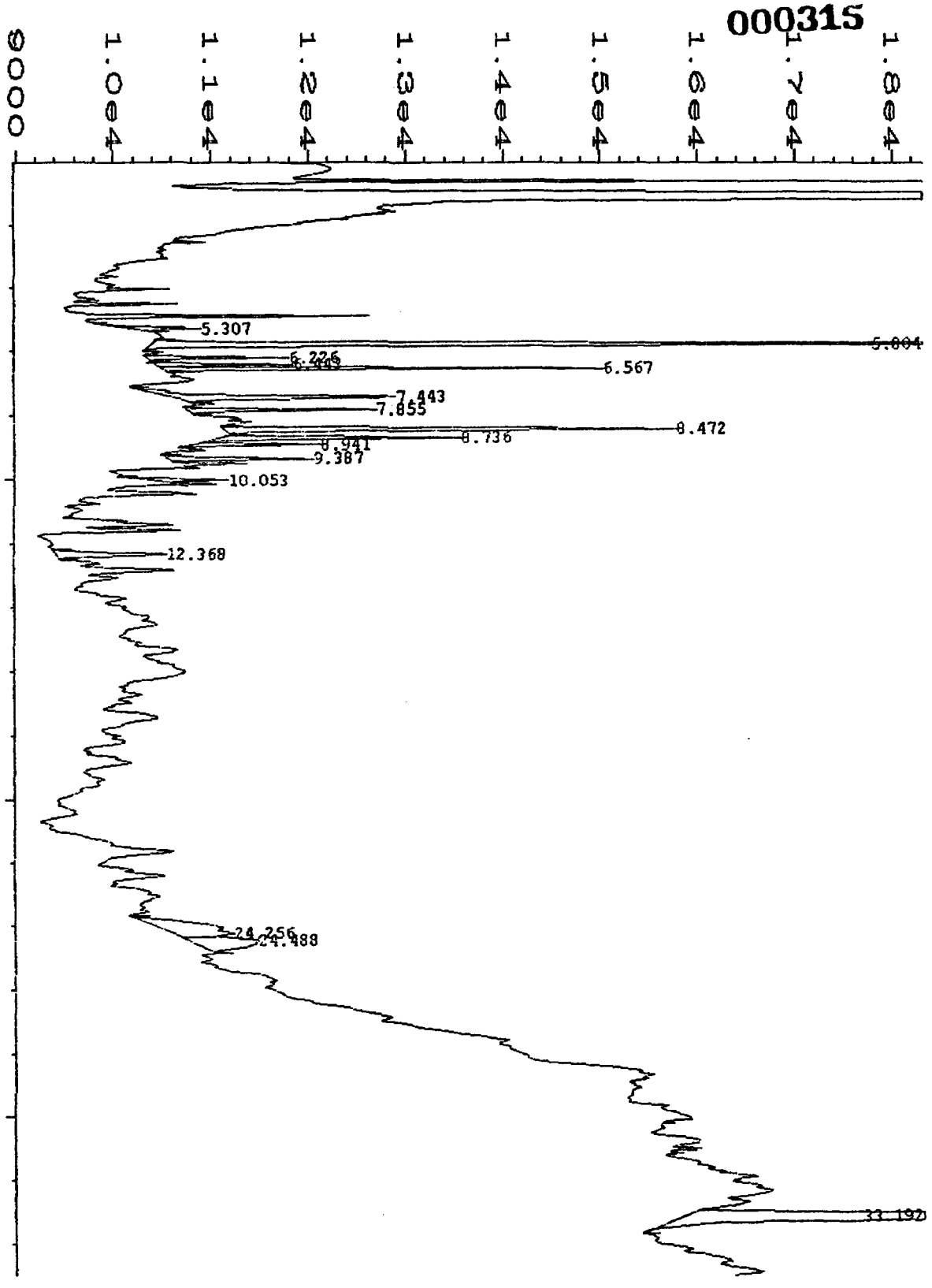
Ret Time	Area	Type	Width	Ref#	ng	Name
5.804	121909	BV	0.055	1	0.0400	TCX
6.567	16981	VB	0.058	1	0.200	AROCLOR-1232
7.443	16236	BB	0.095	1	0.200	AROCLOR-1232-2
7.855	7570	BB	0.061	1	0.200	AROCLOR-1232-3
8.472	27027	BB	0.095	1	0.200	AROCLOR-1232-4
8.736	12199	BV	0.075	1	0.200	AROCLOR-1232-5
33.192	150326	PV	0.162	1	0.0400	DCB

000314



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\007F0501.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 7
Sample Name	: EPA1-24-AF1	Injection Number	: 1
Run Time Bar Code:	1558	Sequence Line	: 5
Acquired on	: 23 Apr 96 03:58 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 08:58 AM	Analysis Method	: AR32-3F.MTH
Last Recalib on	: 25 APR 96 08:32 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1232F1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M		

000315



Data File Name : C:\HPCHEM\3\DATA\30423CAL\007F0501.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-24-AF1
Run Time Bar Code:
Acquired on : 23 Apr 96 03:58 PM
Report Created on: 25 Apr 96 03:50 PM
Last Recalib on : 25 APR 96 08:32 AM
Multiplier : 1

AR1232F1
153mm
1558
2ml
DB-5
30m

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 5
Instrument Method: EPADB5P.MTH
Analysis Method : AR32-3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000316

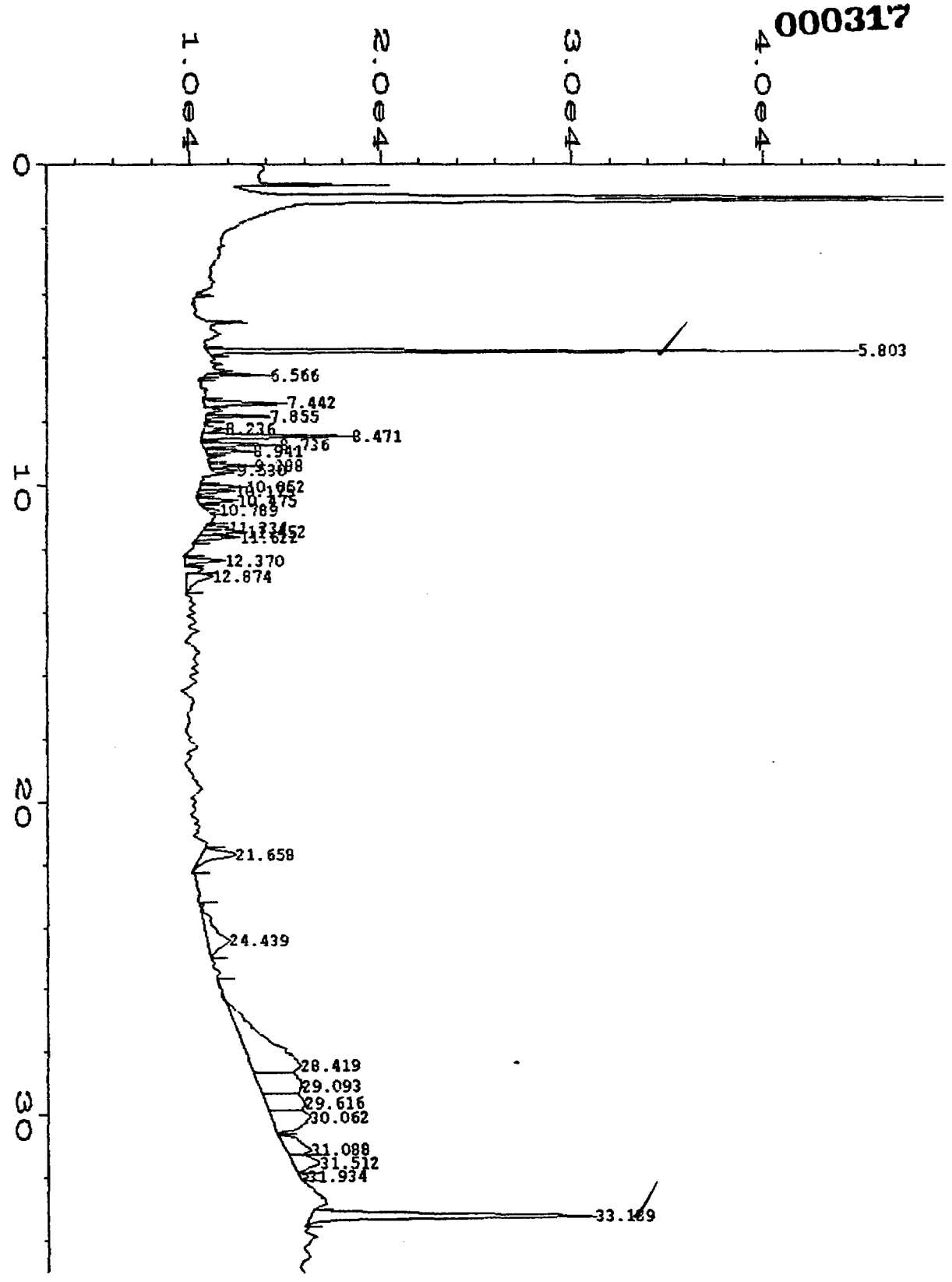
Data File Name : C:\HPCHEM\3\DATA\30423CAL\008F0601.D
rator : DLP
trument : HP3F
Sample Name : EPA1-26-AF1
Run Time Bar Code: 16 38
Acquired on : 23 Apr 96 04:38 PM
Report Created on: 25 Apr 96 08:59 AM
Last Recalib on : 25 APR 96 08:41 AM
Multiplier : 1
Sample Info : AR1242F1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 6
Instrument Method: EPADB5P.MTH
Analysis Method : AR42-3F.MTH
Sample Amount : 0
ISTD Amount :

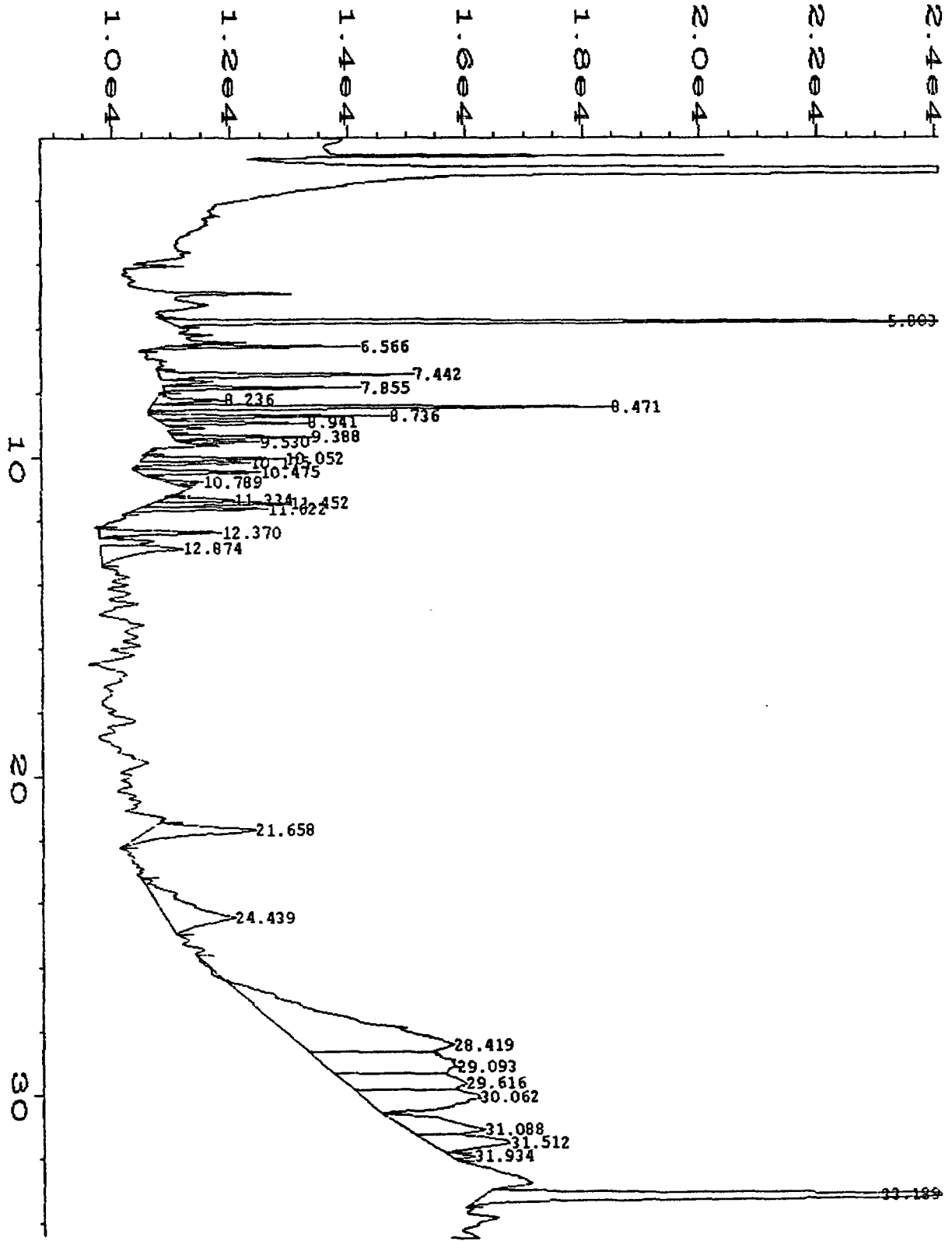
Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\008F0601.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.803	121997	BB	0.055	1	0.0400	TCX
7.442	27174	BV	0.085	1	0.200	AROCLOR-1242
7.855	13521	VB	0.062	1	0.200	AROCLOR-1242-2
8.471	46409	VB	0.096	1	0.200	AROCLOR-1242-3
8.736	18178	BV	0.070	1	0.200	AROCLOR-1242-4
8.941	11320	VV	0.072	1	0.200	AROCLOR-1242-5
33.189	155448	VV	0.161	1	0.0400	DCB

000317



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\008F0601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 8
Sample Name	: EPA1-26-AF1	Injection Number	: 1
Run Time Bar Code:	16 38	Sequence Line	: 6
Acquired on	: 23 Apr 96 04:38 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 08:59 AM	Analysis Method	: AR42-3F.MTH
Last Recalib on	: 25 APR 96 08:41 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1242F1 , HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M		



Data File Name : C:\HPCHEM\3\DATA\30423CAL\008F0601.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-26-AF1
Run Time Bar Code:
Acquired on : 23 Apr 96 04:38 PM
Report Created on: 25 Apr 96 03:51 PM
Last Recalib on : 25 APR 96 08:41 AM
Multiplier : 1

AR1242F1
DB-5
.53mm
2µl
30m
16 38

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 6
Instrument Method: EPADB5P.MTH
Analysis Method : AR42-3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000319

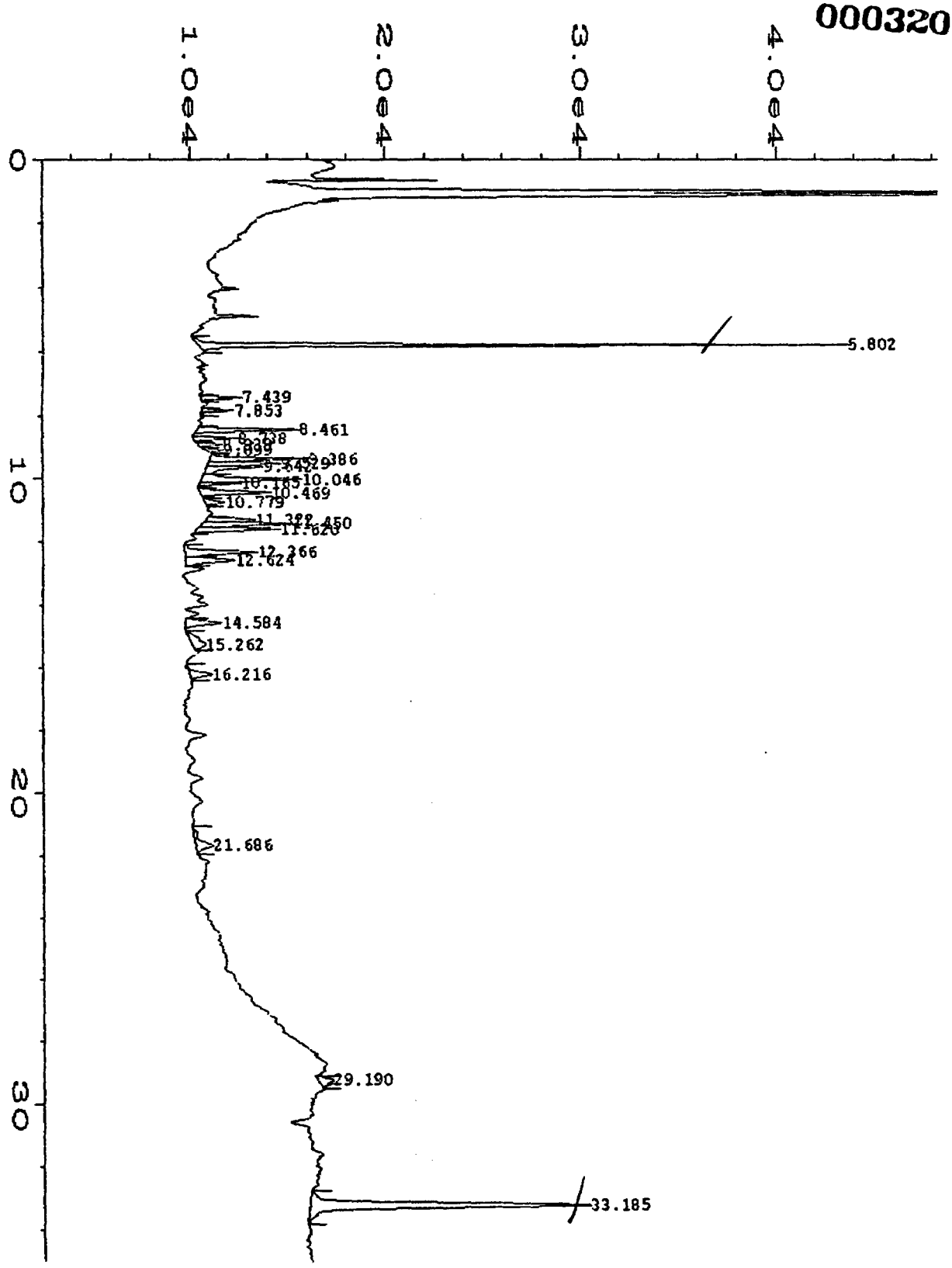
Data File Name : C:\HPCHEM\3\DATA\30423CAL\009F0701.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-28-AF1
Run Time Bar Code: 17 18
Acquired on : 23 Apr 96 05:18 PM
Report Created on: 25 Apr 96 09:00 AM
Last Recalib on : 25 APR 96 08:43 AM
Multiplier : 1
Sample Info : AR1248F1, HP3F, COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 7
Instrument Method: EPADB5P.MTH
Analysis Method : AR48-3F.MTH
Sample Amount : 0
ISTD Amount :

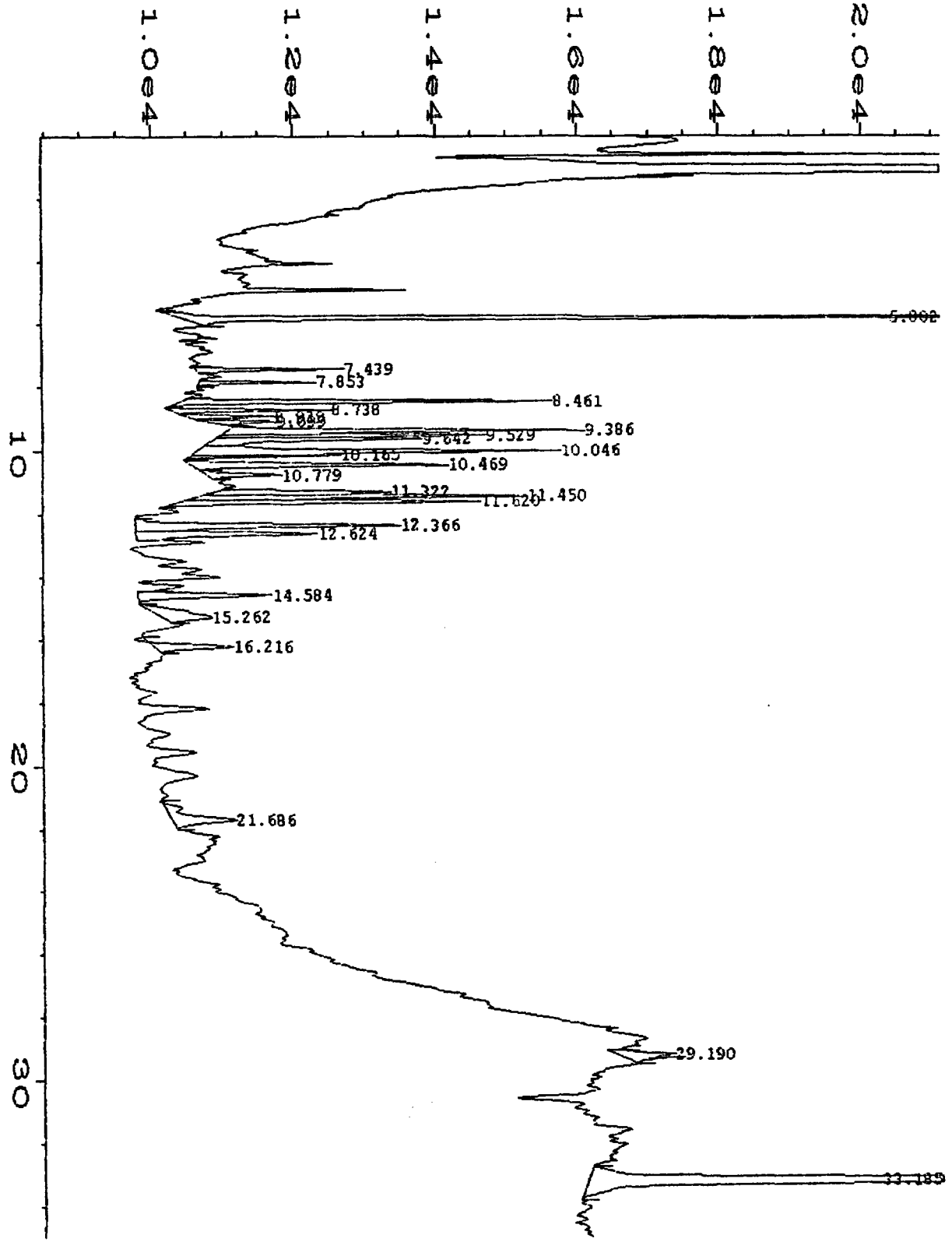
Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\009F0701.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.802	123386	BB	0.056	1	0.0400	TCX
9.386	28249	BV	0.085	1	0.200	AROCLOR-1248
10.046	36791	VV	0.104	1	0.200	AROCLOR-1248-2
11.450	31625	VV	0.102	1	0.200	AROCLOR-1248-3
11.620	29879	VB	0.109	1	0.200	AROCLOR-1248-4
12.366	31698	BV	0.131	1	0.200	AROCLOR-1248-5
33.185	159038	BB	0.172	1	0.0400	DCB

000320



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\009F0701.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 9
Sample Name	: EPA1-28-AF1	Injection Number	: 1
Run Time Bar Code:	17 18	Sequence Line	: 7
Acquired on	: 23 Apr 96 05:18 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 09:00 AM	Analysis Method	: AR48-3F.MTH
Last Recalib on	: 25 APR 96 08:43 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1248F1, HP3F, COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M		



Data File Name : C:\HPCHEM\3\DATA\30423CAL\009F0701.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-28-AF1
Run Time Bar Code:
Acquired on : 23 Apr 96 05:18 PM
Report Created on: 25 Apr 96 03:52 PM
Last Recalib on : 25 APR 96 08:43 AM
Multiplier : 1

AR1248F1
DB-5, .53mm
17 18
2µl
30M

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 7
Instrument Method: EPADB5P.MTH
Analysis Method : AR48-3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000322

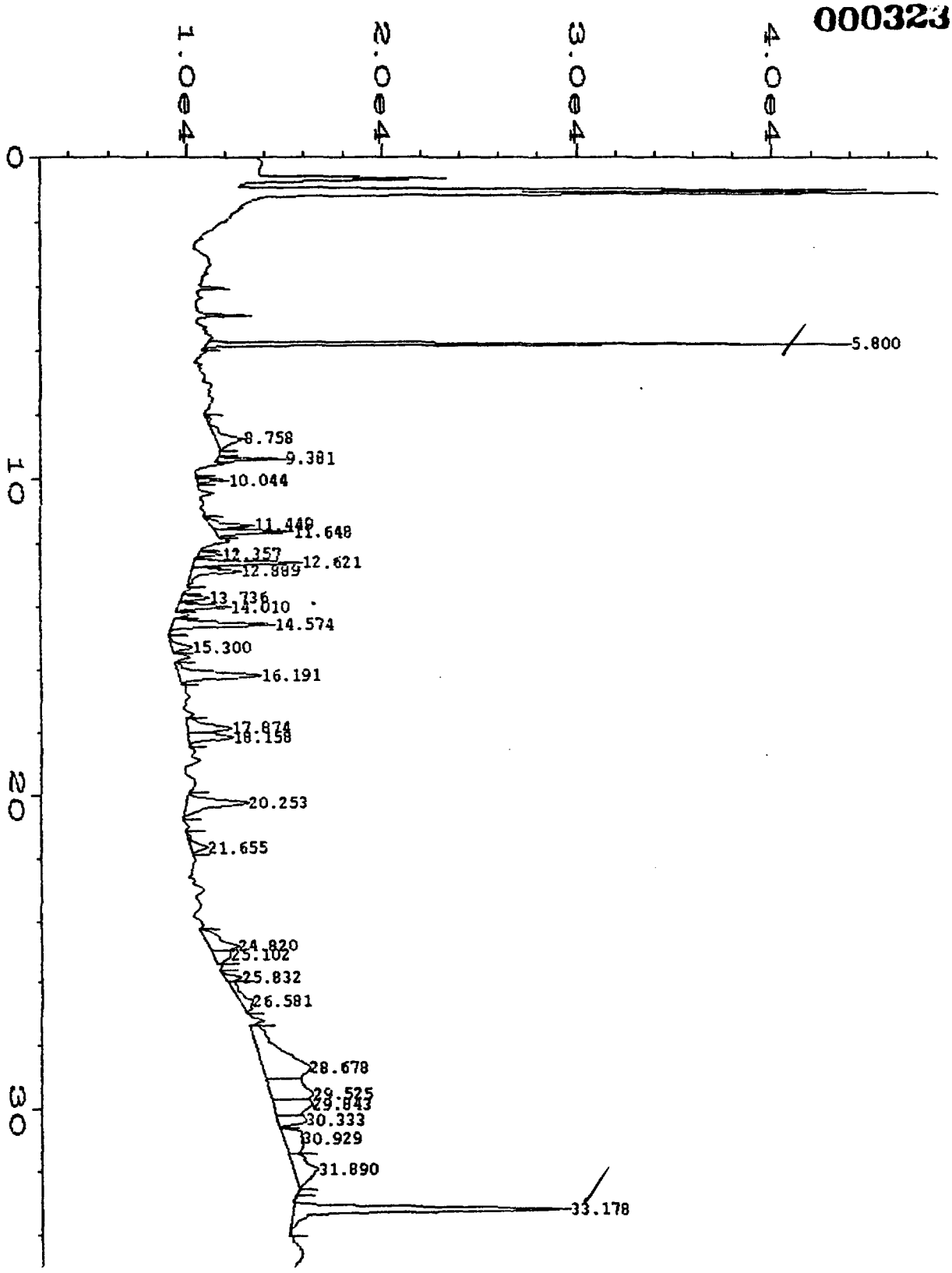
Data File Name : C:\HPCHEM\3\DATA\30423CAL\010F0801.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-30-AF1
Run Time Bar Code: 1757
Acquired on : 23 Apr 96 05:57 PM
Report Created on: 25 Apr 96 09:01 AM
Last Recalib on : 25 APR 96 08:45 AM
Multiplier : 1
Sample Info : AR1254F1, HP3F COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 8
Instrument Method: EPADB5P.MTH
Analysis Method : AR54-3F.MTH
Sample Amount : 0
ISTD Amount :

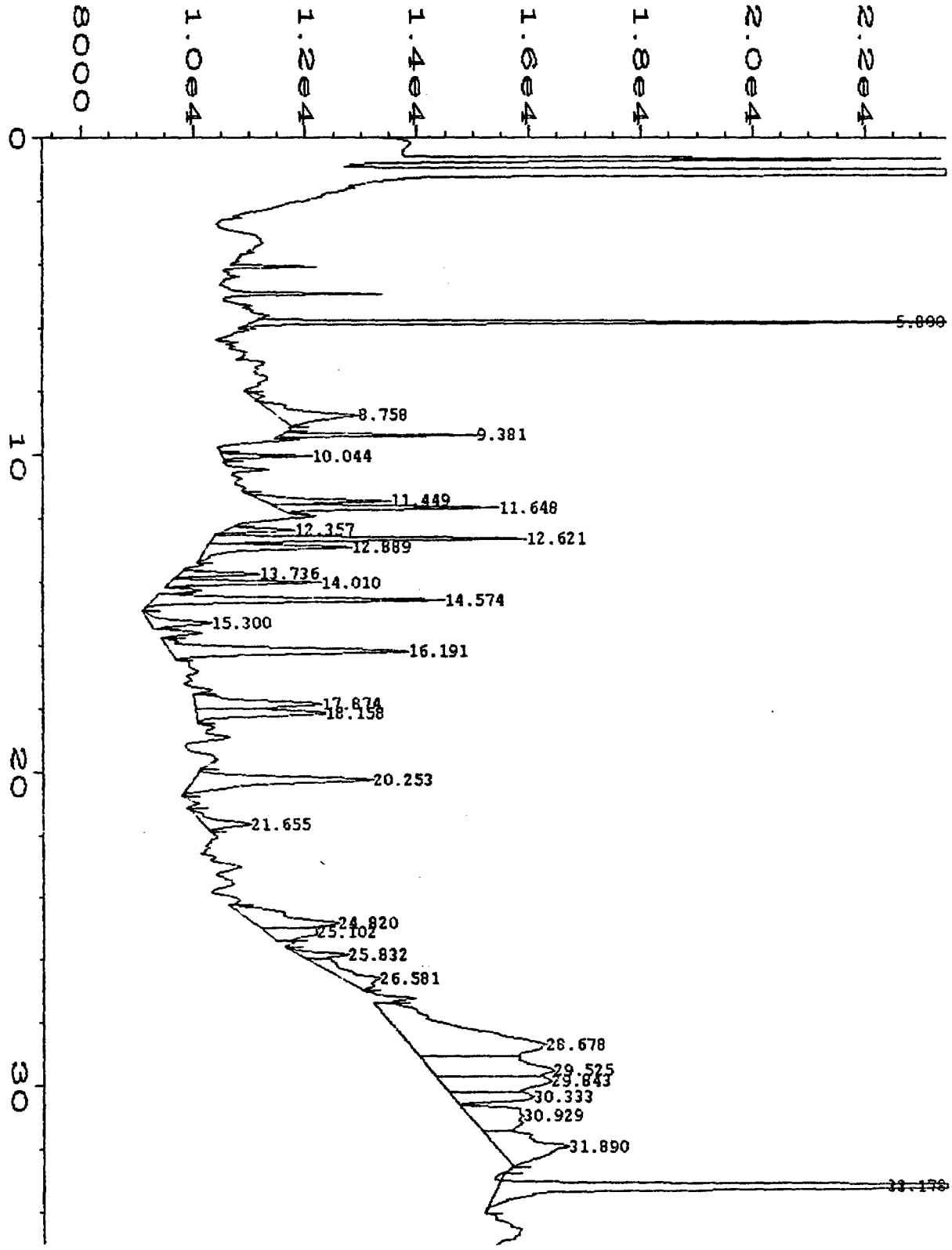
Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\010F0801.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.800	117189	BV	0.054	1	0.0400	TCX
11.648	28026	VV	0.110	1	0.200	AROCLOR-1254
12.621	42959	PV	0.121	1	0.200	AROCLOR-1254-2
14.574	51186	VB	0.152	1	0.200	AROCLOR-1254-3
16.191	59325	VV	0.212	1	0.200	AROCLOR-1254-4
20.253	54400	BV	0.250	1	0.200	AROCLOR-1254-5
33.178	154687	BV	0.171	1	0.0400	DCB

000323



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\010F0801.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 10
Sample Name	: EPA1-30-AF1	Injection Number	: 1
Run Time Bar Code:	17 57	Sequence Line	: 8
Acquired on	: 23 Apr 96 05:57 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 09:01 AM	Analysis Method	: AR54-3F.MTH
Last Recalib on	: 25 APR 96 08:45 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1254F1, HP3F COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M		



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\010F0801.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F AR1254F1	Vial Number	: 10
Sample Name	: EPA1-30-AF1 DB-5	Injection Number	: 1
Run Time Bar Code:	17 5T .53mm	Sequence Line	: 8
Acquired on	: 23 Apr 96 05:57 PM 2uL	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 03:53 PM 30M	Analysis Method	: AR54-3F.MTH
Last Recalib on	: 25 APR 96 08:45 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

000325

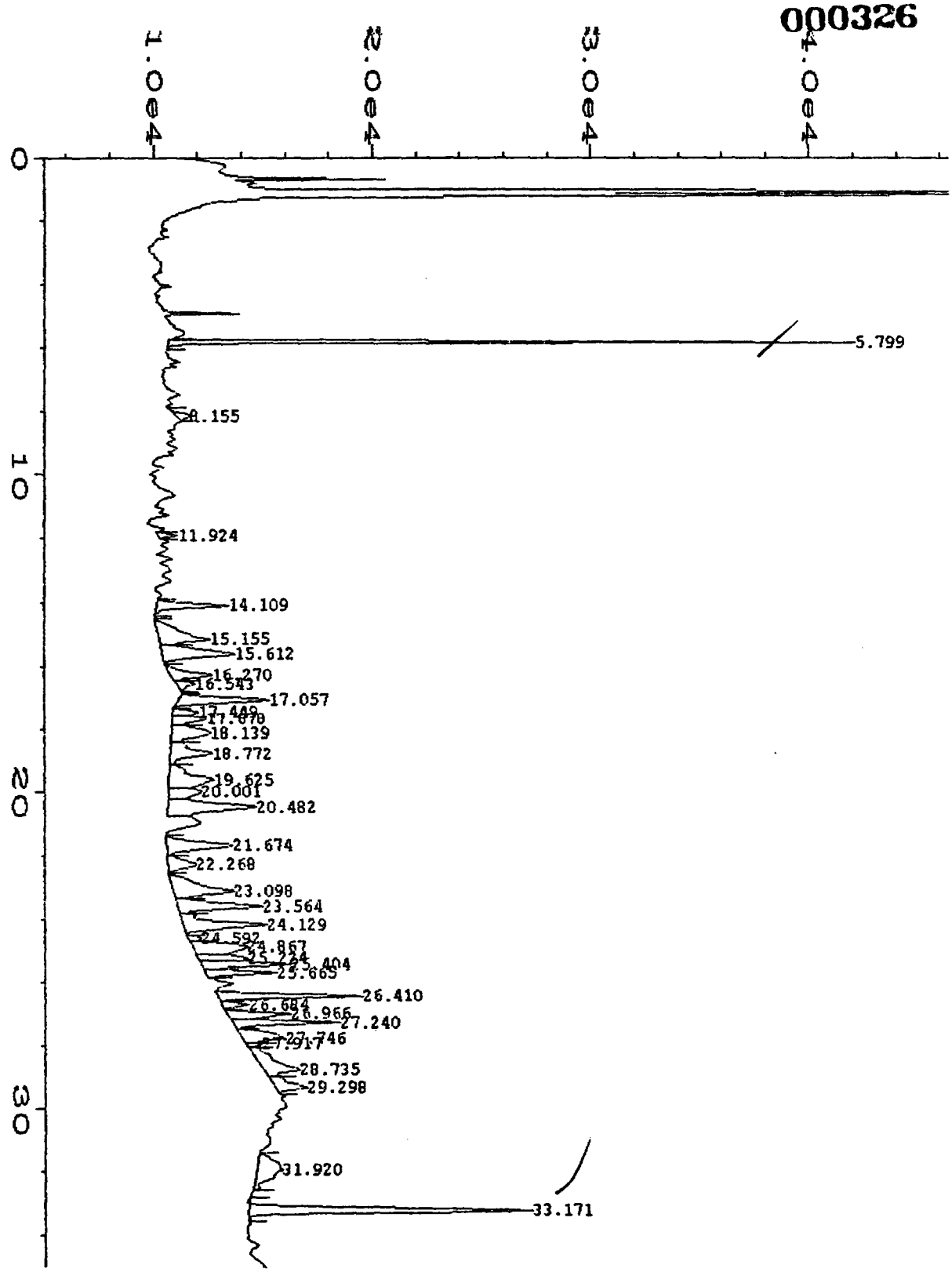
Data File Name : C:\HPCHEM\3\DATA\30423CAL\011F0901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-32-AF1
Run Time Bar Code: 1837
Acquired on : 23 Apr 96 06:37 PM
Report Created on: 25 Apr 96 09:02 AM
Last Recalib on : 25 APR 96 08:47 AM
Multiplier : 1
Sample Info : TOXAPHF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 9
Instrument Method: EPADB5P.MTH
Analysis Method : TOX3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\011F0901.D

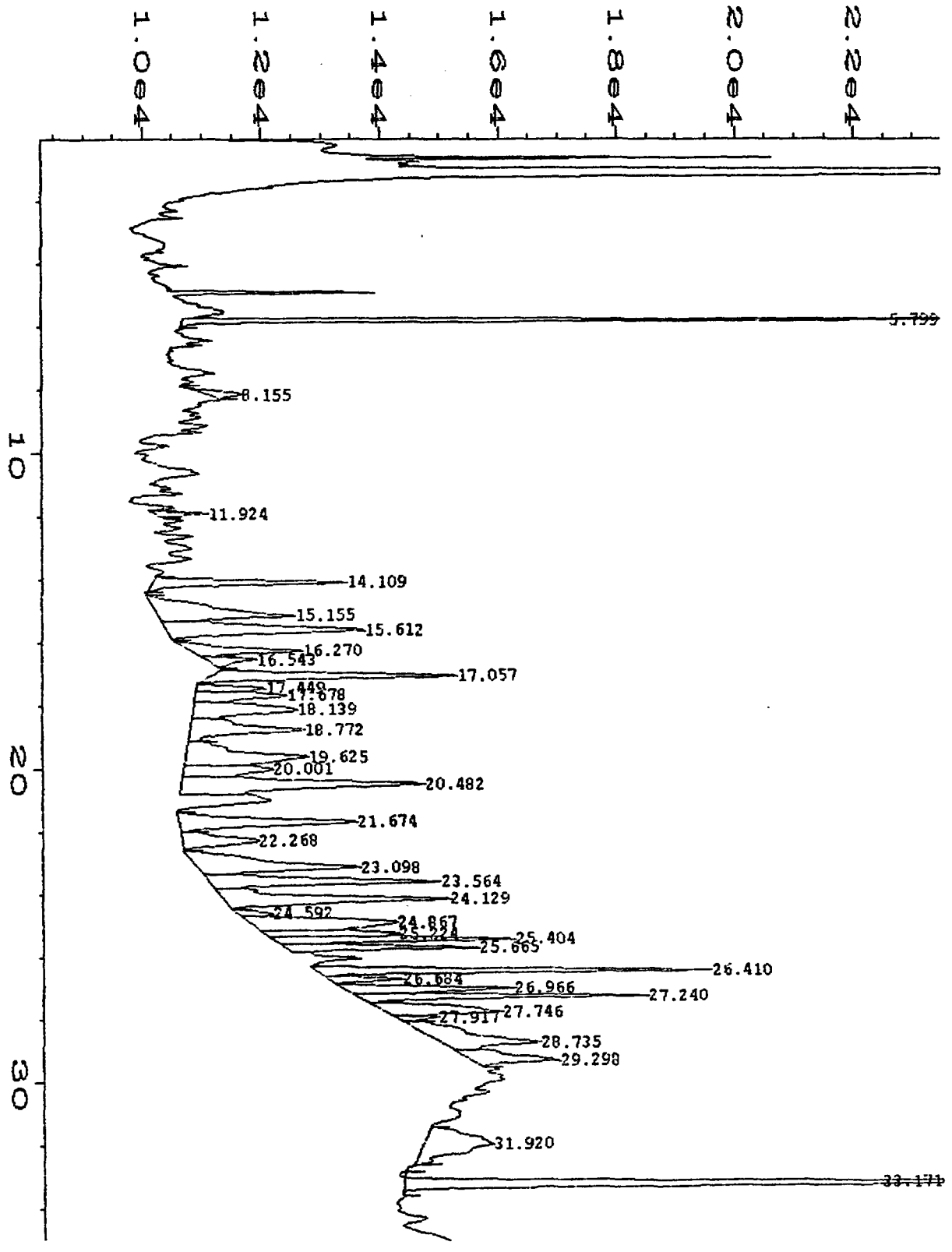
Ret Time	Area	Type	Width	Ref#	ng	Name
5.799	113056	VB	0.055	1	0.0400	TCX
17.057	50598	BV	0.200	1	1.000	TOXAPHENE
20.482	73731	VV	0.263	1	1.00	TOXAPHENE-2
23.564	53141	VV	0.216	1	1.000	TOXAPHENE-3
26.410	54656	VV	0.131	1	1.000	TOXAPHENE-4
27.240	41361	VV	0.127	1	1.00	TOXAPHENE-5
33.171	127363	BB	0.156	1	0.0400	DCB

000326



Data File Name : C:\HPCHEM\3\DATA\30423CAL\011F0901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-32-AF1
Run Time Bar Code: 18 37
Acquired on : 23 Apr 96 06:37 PM
Report Created on: 25 Apr 96 09:02 AM
Last Recalib on : 25 APR 96 08:47 AM
Multiplier : 1
Sample Info : TOXAPHF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 9
Instrument Method: EPADB5P.MTH
Analysis Method : TOX3F.MTH
Sample Amount : 0
ISTD Amount :



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\011F0901.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 11
Sample Name	: EPA1-32-A F1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 23 Apr 96 06:37 PM	Instrument Method:	EPADB5P.MTH
Report Created on:	25 Apr 96 03:54 PM	Analysis Method	: TOX3F.MTH
Last Recalib on	: 25 APR 96 08:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

TOXAPH F1
DB-5
18 37
.53mm
2μ
30M

External Standard Report

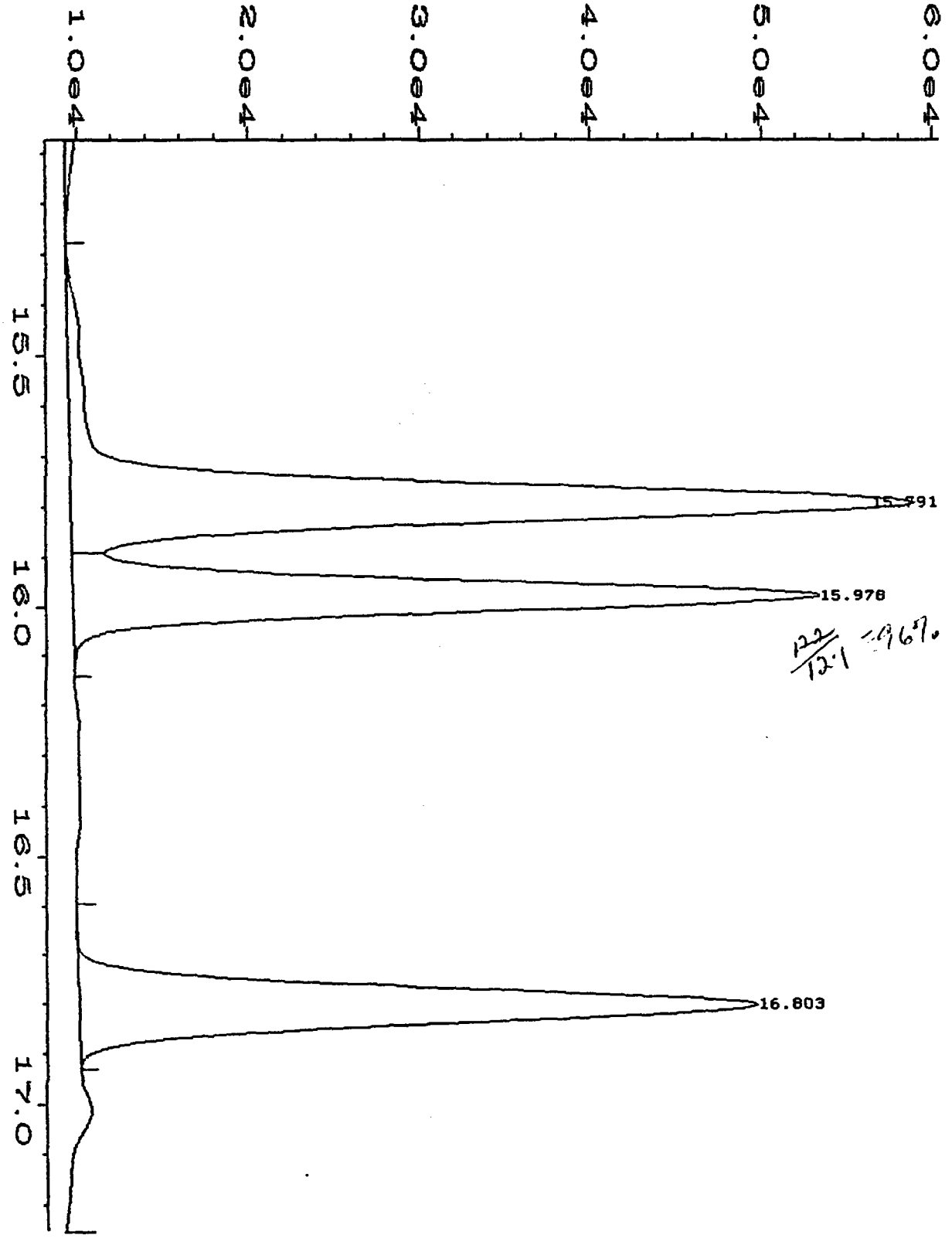
000328

Data File Name : C:\HPCHEM\3\DATA\3041496\036F1901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A2F
Run Time Bar Code:
Acquired on : 15 Apr 96 09:08 AM
Report Created on: 15 Apr 96 03:25 PM
Last Recalib on : 15 Apr 96 03:25 PM
Multiplier : 1
Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 19
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :
Sample Info : INDAM2F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Sig. 1 in C:\HPCHEM\3\DATA\3041496\036F1901.D

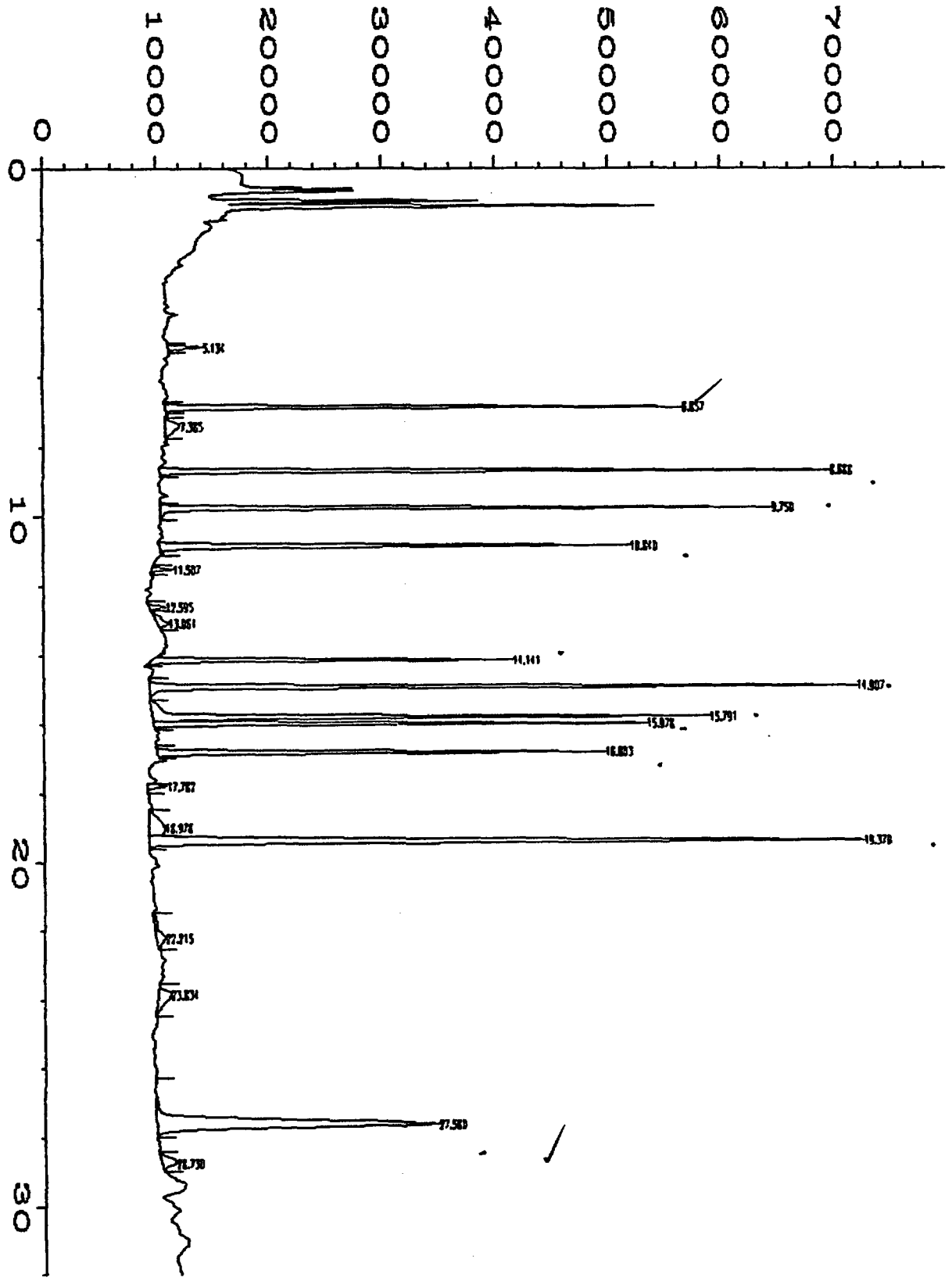
Ret Time	Area	Type	Width	Ref#	ng	Name
6.857	206087	BV	0.070	1	0.0400	TCX
8.688	257925	PB	0.068	1	0.0400	alpha-BHC
9.750	247795	BB	0.071	1	0.0400	gamma-BHC
10.840	218882	BB	0.082	1	0.0400	HEPTACHLOR
14.141	165643	VV	0.080	1	0.0400	ENDOSULFAN I
14.907	317825	BV	0.079	1	0.0800	DIELDRIN
15.791	265868	PV	0.083	1	0.0800	ENDRIN
15.978	195217	VV	0.070	1	0.0800	4,4'-DDD
16.803	196279	BV	0.078	1	0.0800	4,4'-DDT
19.370	476780	VB	0.119	1	0.400	METHOXYCHLOR
27.580	387382	BV	0.243	1	0.0800	DCB

000329



122/121 = 96%

Data File Name	: C:\HPCHEM\3\DATA\3041496\036F1901.D				
Operator	: DLP	Ind AM2F	RTX-35	Page Number	: 1
Instrument	: HP3F		30m	Vial Number	: 36
ple Name	: EPA1-12-A2F		0.53mm ID	Injection Number	: 1
Time Bar Code:				Sequence Line	: 19
Acquired on	: 15 Apr 96 09:08 AM		1ul inj.	Instrument Method:	EPAMTH_F.MTH
Report Created on:	15 Apr 96 07:36 PM			Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM			Sample Amount	: 0
Multiplier	: 10			ISTD Amount	:



Data File Name	: C:\HPCHEM\3\DATA\3041496\036F1901.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 36
Sample Name	: EPA1-12-A2F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 19
Acquired on	: 15 Apr 96 09:08 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 03:25 PM	Analysis Method	: INDA3F.MTH
Last Recalib on	: 15 Apr 96 03:25 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: INDAM2F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

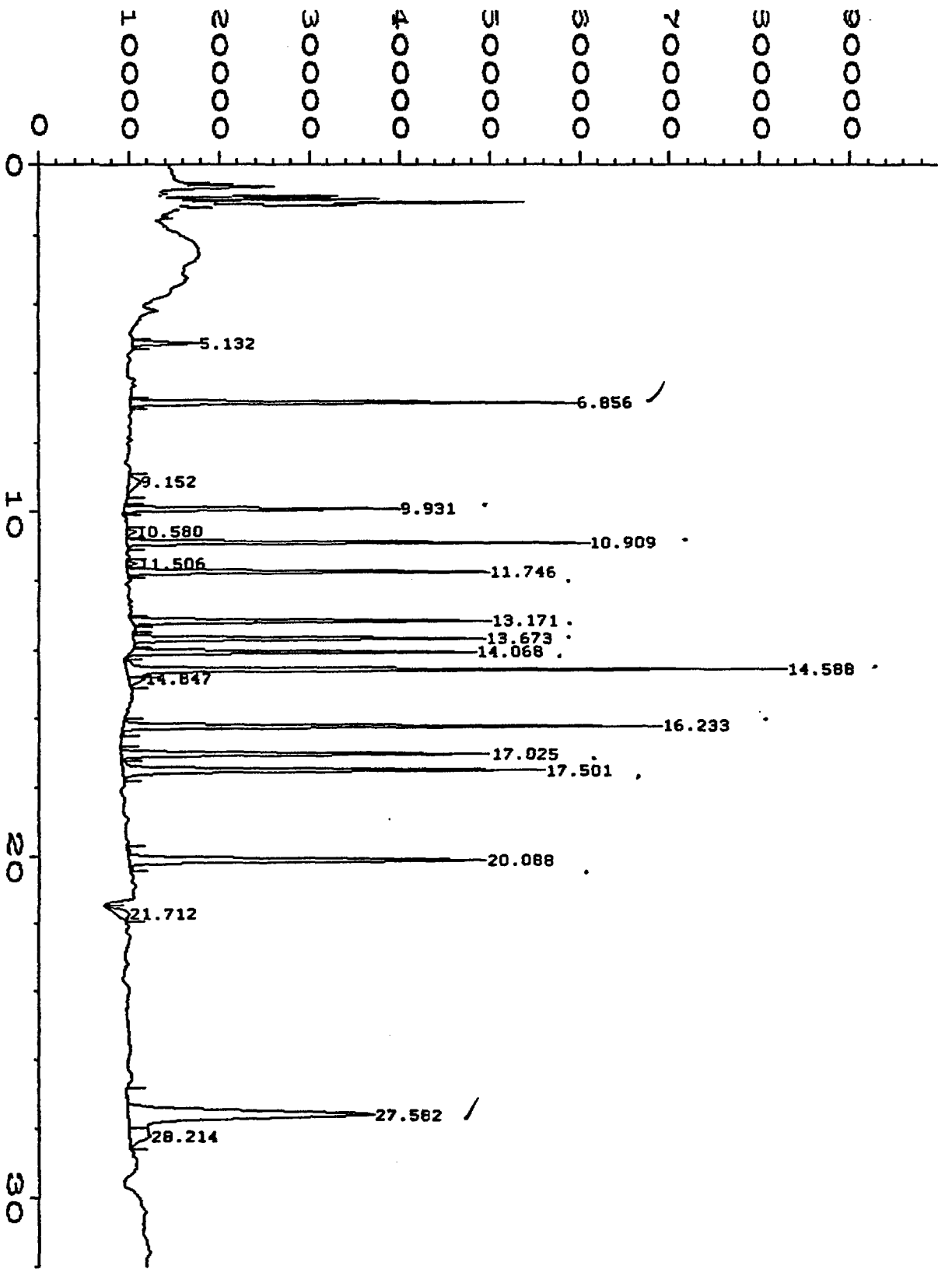
000331

Data File Name : C:\HPCHEM\3\DATA\3041496\038F1901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-A3F
Run Time Bar Code:
Acquired on : 15 Apr 96 10:21 AM
Report Created on: 15 Apr 96 03:28 PM
Last Recalib on : 15 Apr 96 03:28 PM
Multiplier : 1
Sample Info : INDBM3F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 19
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\038F1901.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.856	222993	BV	0.070	1	0.0400	TCX
9.931	137380	BV	0.070	1	0.0400	beta-BHC
10.909	216754	VB	0.066	1	0.0400	delta-BHC
11.746	203939	PV	0.080	1	0.0400	ALDRIN
13.171	202973	BB	0.080	1	0.0400	HEPT. EPOXIDE
13.673	202612	BB	0.081	1	0.0400	g. CHLORDANE
14.068	198021	BV	0.080	1	0.0400	a. CHLORDANE
14.588	364639	PV	0.077	1	0.0800	4,4'-DDE
16.233	303539	BB	0.079	1	0.0800	ENDOSULFAN II
17.025	232190	BV	0.088	1	0.0800	ENDRIN ALDEHYDE
17.501	287598	VB	0.094	1	0.0800	ENDO. SULFATE
20.088	300265	BB	0.119	1	0.0800	ENDRIN KETONE
7.582	443183	BV	0.252	1	0.0800	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\038F1901.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 38
Sample Name	: EPA1-16-A2F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 19
Acquired on	: 15 Apr 96 10:21 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 11:11 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

IndB#12F RTX-35, 0.53mm ID 30m 2ul inj.

Sample Info : INDPM2F HP3 F COLUMN: RTX-35 0.53mm ID 2 µl INJ. 30 M

External Standard Report

000333

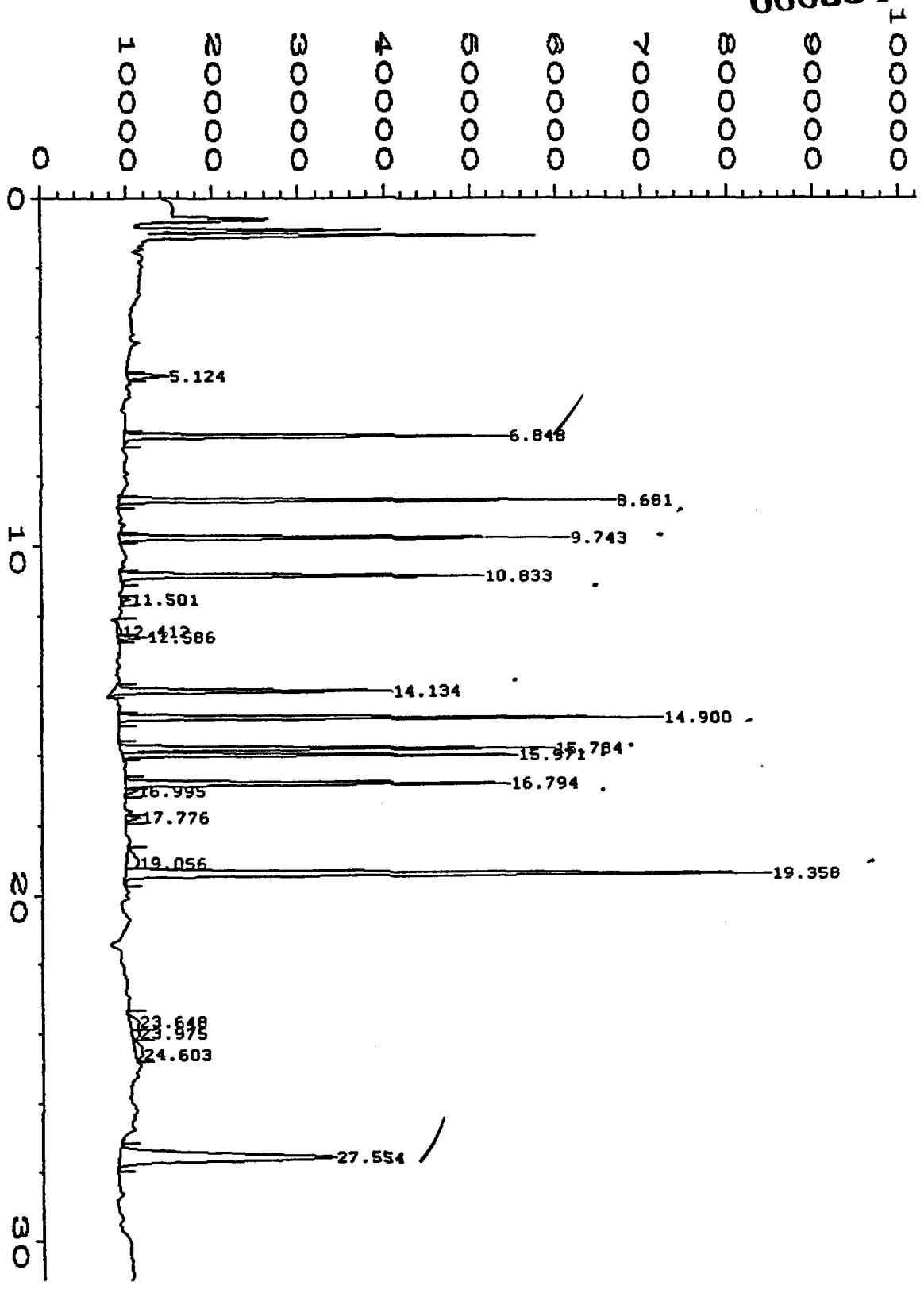
Data File Name : C:\HPCHEM\3\DATA\3041596\028F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A3F
Run Time Bar Code:
Acquired on : 16 Apr 96 05:50 AM
Report Created on: 25 Apr 96 02:02 PM
Last Recalib on : 25 Apr 96 02:01 PM
Multiplier : 1

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDART35.MTH
Sample Amount : 0
ISTD Amount :

INDARM3F RTX-35 0.53mm 2nd 30m

Sig. 1 in C:\HPCHEM\3\DATA\3041596\028F0101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.848	204278	BB	0.071	1	0.0400	TCX
8.681	249380	BV	0.068	1	0.0400	alpha-BHC
9.743	233093	BB	0.070	1	0.0400	gamma-BHC
10.833	223791	BB	0.083	1	0.0400	HEPTACHLOR
14.134	174043	BV	0.082	1	0.0400	ENDOSULFAN I
14.900	313450	BB	0.078	1	0.0800	DIELDRIN
15.784	248513	BV	0.077	1	0.0800	ENDRIN
15.971	206722	VV	0.070	1	0.0800	4,4'-DDD
16.794	225274	BV	0.078	1	0.0800	4,4'-DDT
19.358	562770	VB	0.117	1	0.400	METHOXYCHLOR
27.554	381581	PB	0.239	1	0.0800	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041596\028F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 28
Sample Name	: EPA1-12-A3F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 05:50 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 06:26 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: INDAM3F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

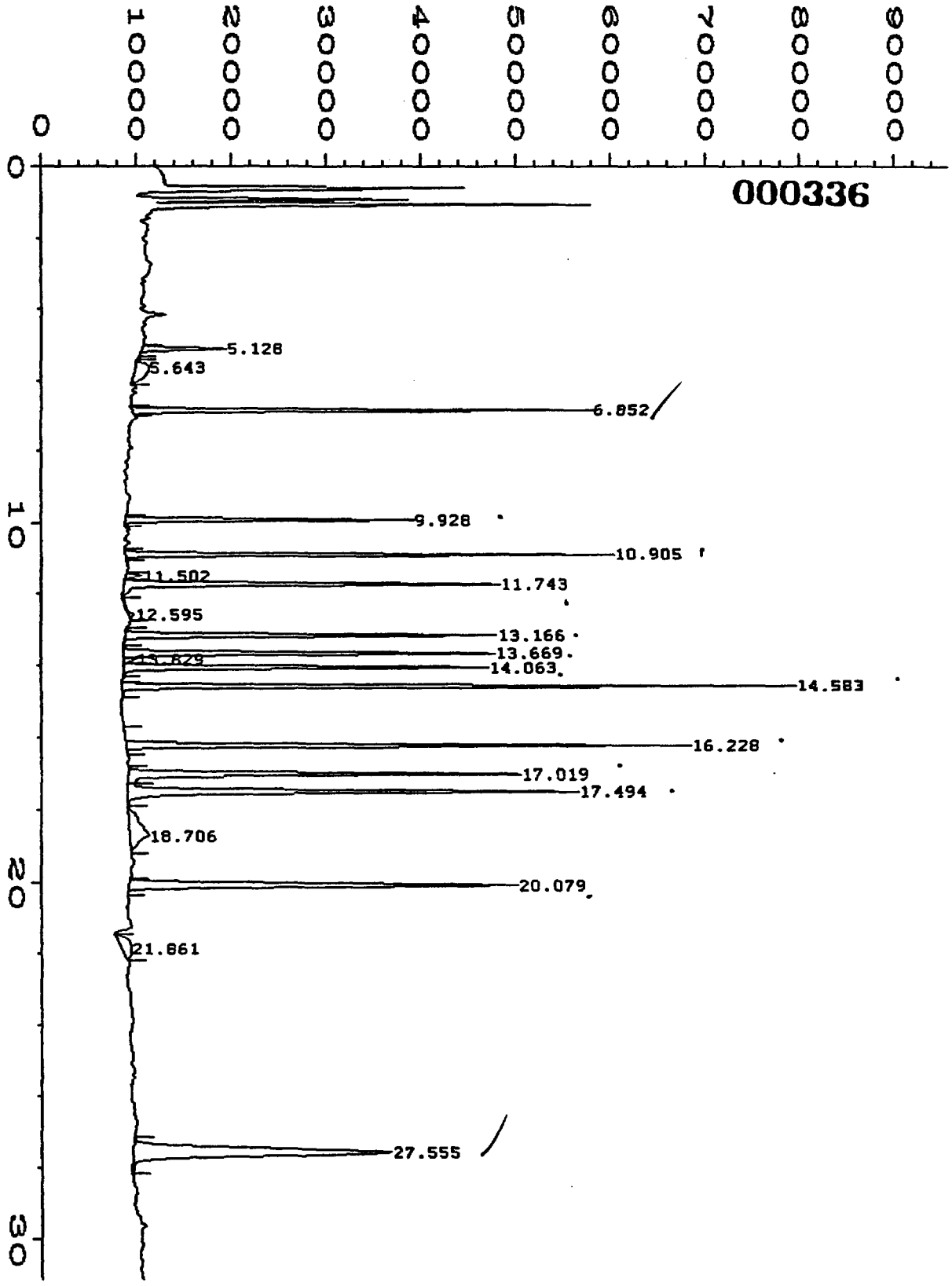
Data File Name : C:\HPCHEM\3\DATA\3041596\030F0101.D 000335
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-A3F
Run Time Bar Code:
Acquired on : 16 Apr 96 07:02 AM
Report Created on: 25 Apr 96 02:04 PM
Last Recalib on : 25 Apr 96 02:04 PM
Multiplier : 1

Page Number : 1
Vial Number : 30
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDBRT35.MTH
Sample Amount : 0
ISTD Amount :

INDBM3F RTX-35 0.53mm 10, 2µ 130M

Sig. 1 in C:\HPCHEM\3\DATA\3041596\030F0101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.852	216189	BV	0.070	1	0.0400	TCX
9.928	136497	BV	0.070	1	0.0400	beta-BHC
10.905	215492	BV	0.066	1	0.0400	delta-BHC
11.743	213709	VV	0.083	1	0.0400	ALDRIN
13.166	198605	BV	0.079	1	0.0400	HEPT. EPOXIDE
13.669	206111	PV	0.081	1	0.0400	g. CHLORDANE
14.063	201331	VV	0.081	1	0.0400	a. CHLORDANE
14.583	324553	BB	0.072	1	0.0800	4,4'-DDE
16.228	299413	BB	0.079	1	0.0800	ENDOSULFAN II
17.019	240902	BV	0.090	1	0.0800	ENDRIN ALDEHYDE
17.494	302088	VV	0.097	1	0.0800	ENDO. SULFATE
20.079	306877	PB	0.117	1	0.0800	ENDRIN KETONE
27.555	413474	BV	0.240	1	0.0800	DCB



Data File Name : C:\HPCHEM\3\DATA\3041596\030F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-A3F
Bar Code Time Bar Code:
Acquired on : 16 Apr 96 07:02 AM
Report Created on: 16 Apr 96 07:38 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : INDBM3F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 30
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

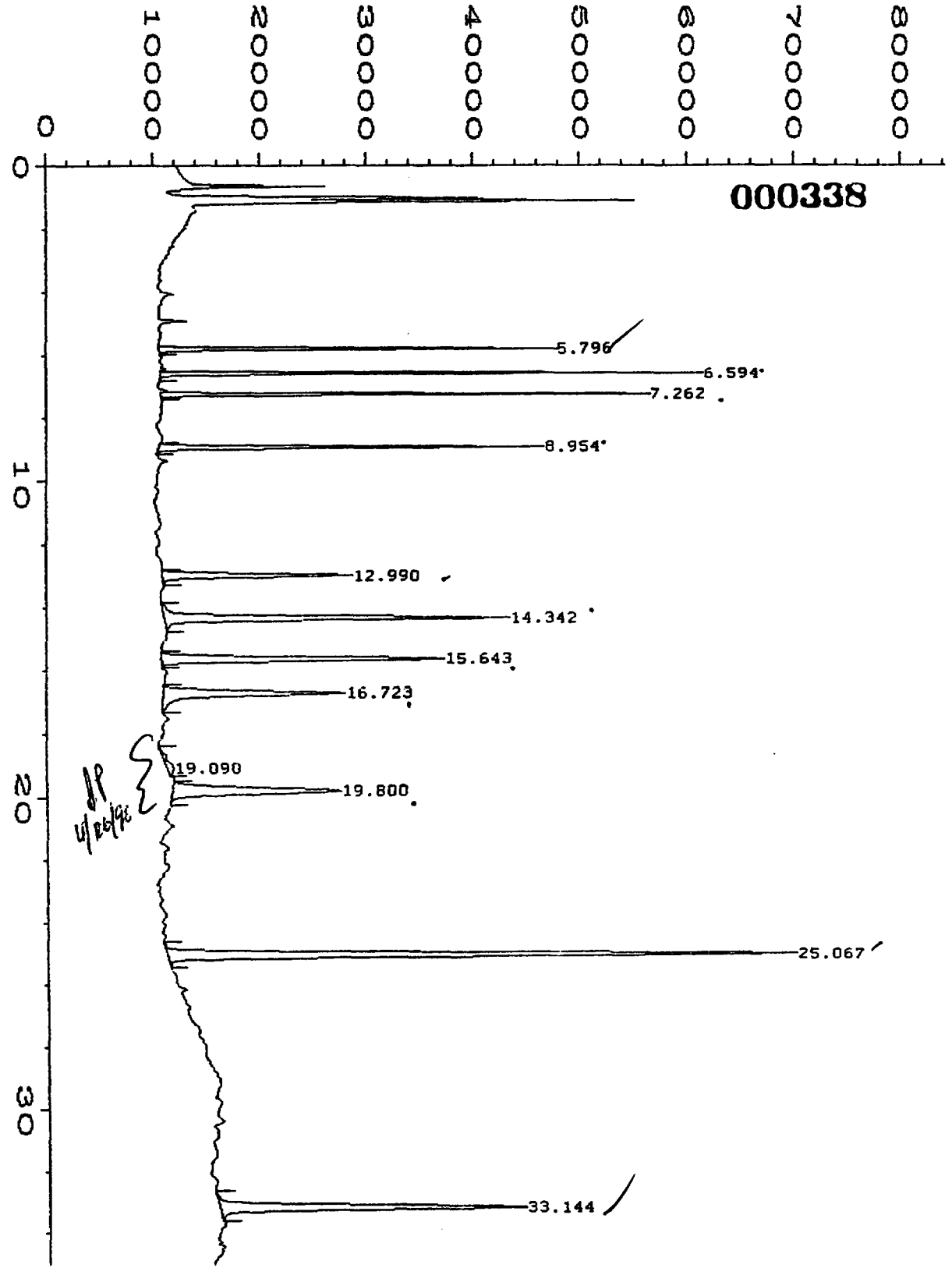
External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3042496\015F0301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-AF2
Run Time Bar Code: 1640
Acquired on : 24 Apr 96 04:40 PM
Report Created on: 25 Apr 96 01:30 PM
Last Recalib on : 25 APR 96 01:27 PM
Multiplier : 1
Sample Info : INDAMFr, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 3
Instrument Method: EPADB5P.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\015F0301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.796	133454	BV	0.055	1	0.0400	TCX
6.594	171888	VB	0.052	1	0.0400	alpha-BHC
7.262	160295	VB	0.054	1	0.0400	gamma-BHC
8.954	168493	BB	0.072	1	0.0400	HEPTACHLOR
12.990	138832	BB	0.121	1	0.0400	ENDOSULFAN I
14.342	289863	BB	0.138	1	0.0800	DIELDRIN
15.643	250954	BV	0.146	1	0.0800	ENDRIN
16.723	198812	BV	0.179	1	0.0800	4,4'-DDD
19.800	215440	BV	0.214	1	0.0800	4,4'-DDT
25.067	562868	BV	0.149	1	0.400	METHOXYCHLOR
33.144	298433	BV	0.163	1	0.0800	DCB



Data File Name : C:\HPCHEM\3\DATA\3042496\015F0301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-AF2
Run Time Bar Code: 16 40
Acquired on : 24 Apr 96 04:40 PM
Report Created on: 24 Apr 96 07:56 PM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 1
Sample Info : INDAMF2, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30M

Page Number : 1
Vial Number : 15
Injection Number : 1
Sequence Line : 3
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

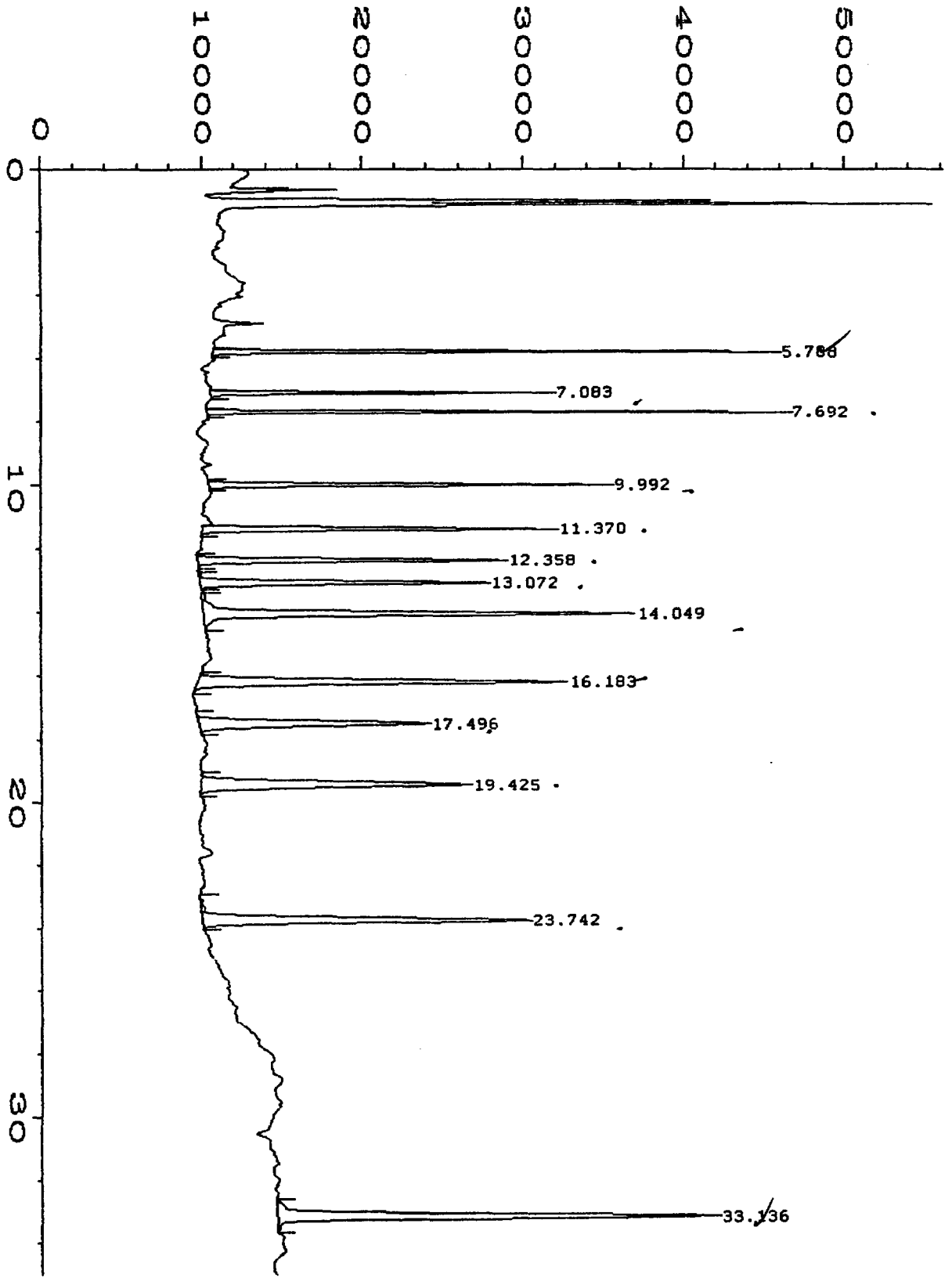
000339

Data File Name : C:\HPCHEM\3\DATA\3042496\016F0401.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-AF2
Run Time Bar Code: 17 19
Acquired on : 24 Apr 96 05:19 PM
Report Created on: 25 Apr 96 11:35 AM
Last Recalib on : 25 Apr 96 11:35 AM
Multiplier : 1
Sample Info : INDBMF2, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30M

Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 4
Instrument Method: EPADB5P.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\016F0401.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.788	125642	BB	0.054	1	0.0400	TCX
7.083	78606	BB	0.056	1	0.0400	beta-BHC
7.692	124009	BB	0.052	1	0.0400	delta-BHC
9.992	129710	BV	0.080	1	0.0400	ALDRIN
11.370	145919	VB	0.103	1	0.0400	HEPT. EPOXIDE
12.358	140208	BB	0.114	1	0.0400	g. CHLORDANE
13.072	144027	BB	0.123	1	0.0400	a. CHLORDANE
14.049	246215	BB	0.139	1	0.0800	4,4'-DDE
16.183	233378	BB	0.158	1	0.0800	ENDOSULFAN II
17.496	169368	BV	0.182	1	0.0800	ENDRIN ALDEHYDE
19.425	220117	BV	0.206	1	0.0800	ENDO. SULFATE
23.742	236813	BV	0.181	1	0.0800	ENDRIN KETONE
3.136	296325	BV	0.169	1	0.0800	DCB



Data File Name : C:\HPCHEM\3\DATA\3042496\016F0401.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-AF2
Run Time Bar Code: 17 19
Acquired on : 24 Apr 96 05:19 PM
Report Created on: 24 Apr 96 05:58 PM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 1
Sample Info : INDBMF2, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30M

Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 4
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000341 EPA SAMPLE NO.

PBLK1

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 032896G

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

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

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

External Standard Report

000342

Data File Name : C:\HPCHEM\3\DATA\3041596\003F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 032896G
Run Time Bar Code: 1503
Acquired on : 15 Apr 96 03:03 PM
Report Created on: 15 Apr 96 03:38 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : PBLK1, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

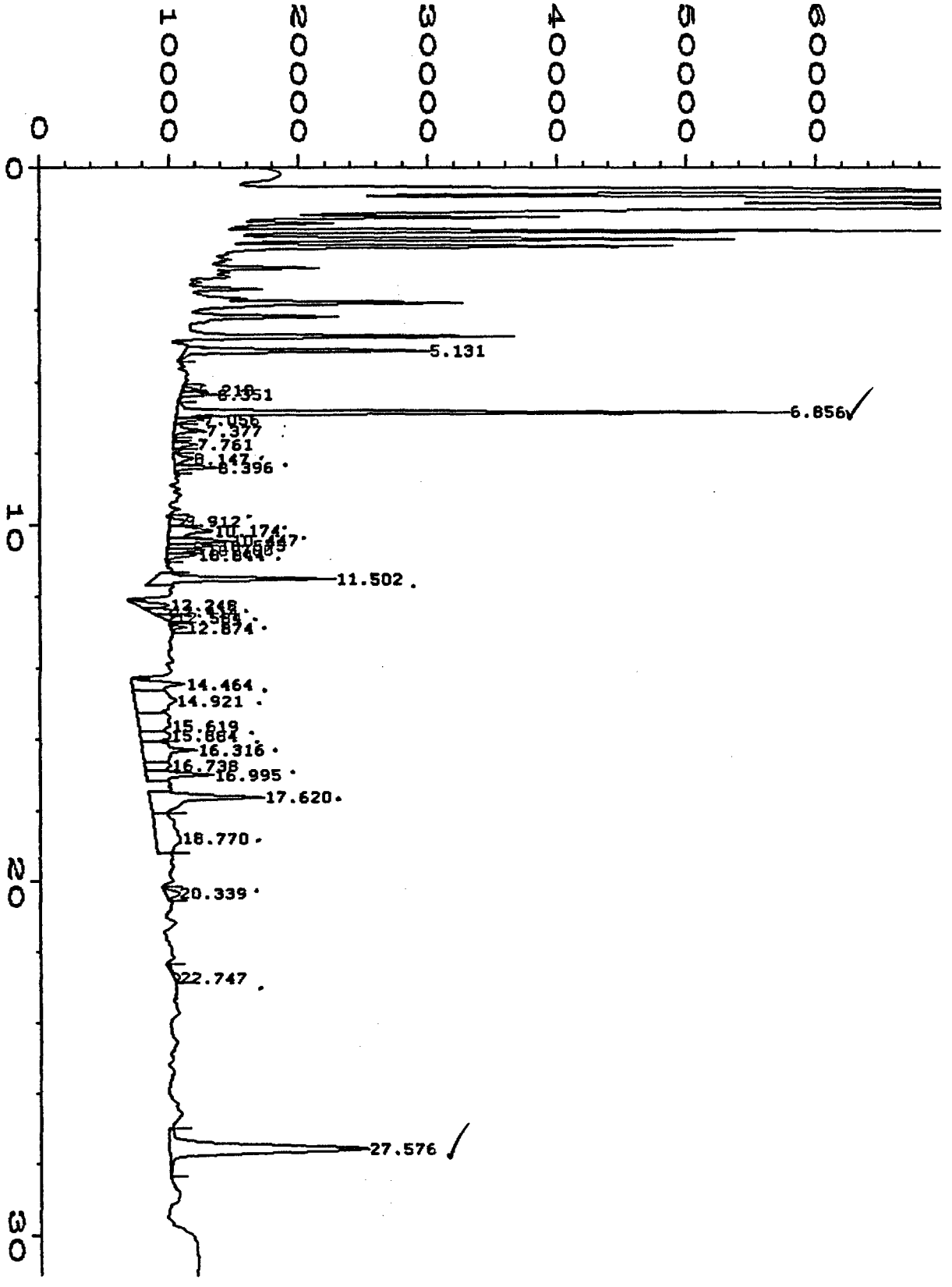
Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\003F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.856	226065	PV	0.073	1	0.217	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.912	10333	BV	0.138	1	0.0153	beta-BHC NC
10.844	16544	VV	0.103	1	0.0153	HEPTACHLOR NC
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.921	101590	VV	0.411	1	0.128	DIELDRIN NC
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.316	77760	VV	0.232	1	0.106	ENDOSULFAN II NC
16.818	* not found *			1		4,4'-DDT
16.995	47300	VV	0.130	1	0.0889	ENDRIN ALDEHYDE NC
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.576	245038	VV	0.245	1	0.250	DCB

Not all calibrated peaks were found

000343



Data File Name : C:\HPCHEM\3\DATA\3041596\003F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 032896G
Run Time Bar Code: 1503
Acquired on : 15 Apr 96 03:03 PM
Report Created on: 15 Apr 96 03:38 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : PBLK1, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000344

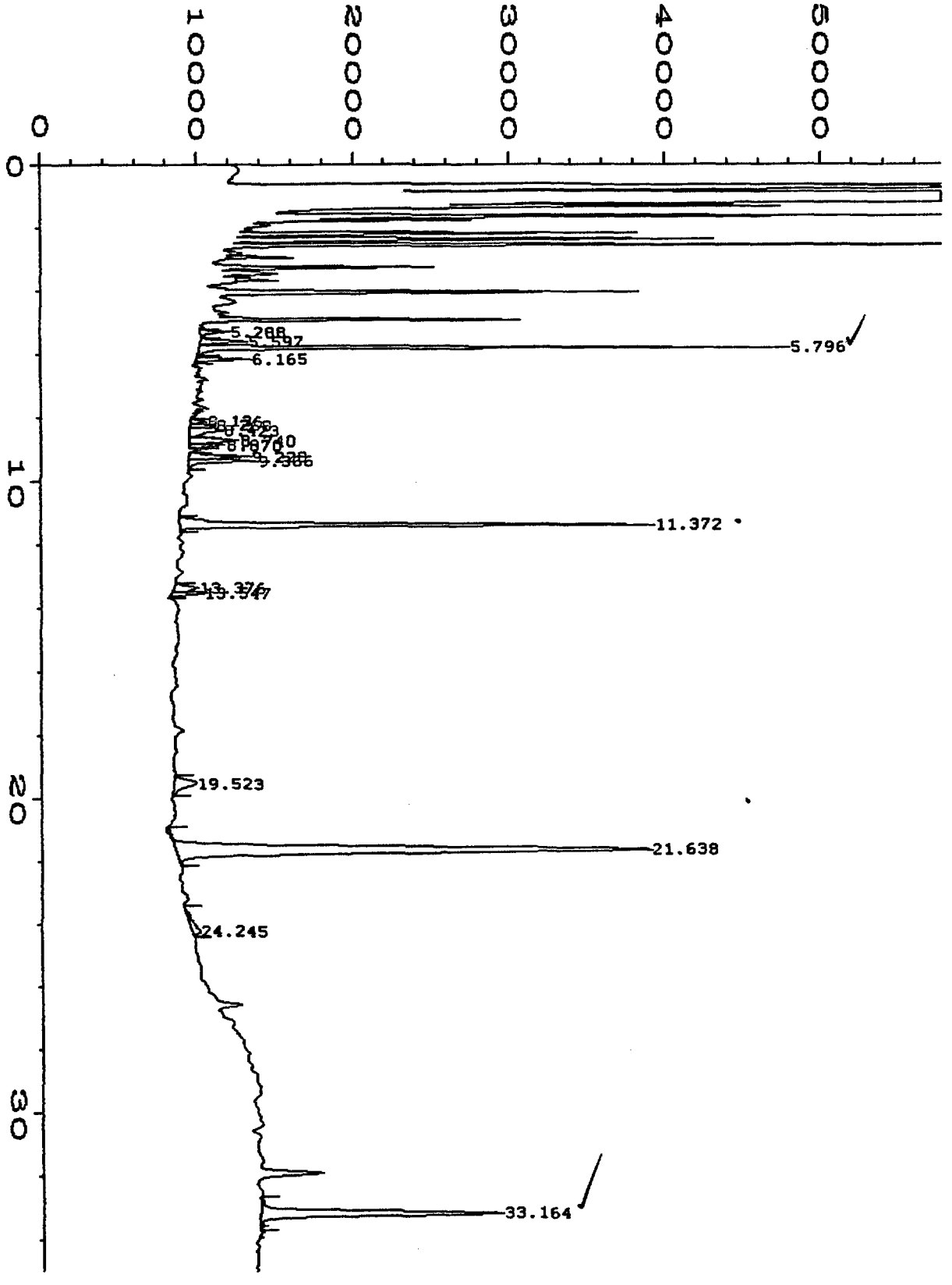
Data File Name : C:\HPCHEM\3\DATA\3042496\004F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 032896G
Run Time Bar Code:
Acquired on : 24 Apr 96 08:58 AM
Report Created on: 24 Apr 96 09:38 AM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 10
Sample Info : PBLK1, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\004F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
5.796	147687	VV	0.058	1	0.255	TCX .257
6.596	* not found *			1		alpha-BHC
7.094	* not found *			1		beta-BHC
7.265	* not found *			1		gamma-BHC
7.704	* not found *			1		delta-BHC
8.958	* not found *			1		HEPTACHLOR
10.008	* not found *			1		ALDRIN
11.372	185491	BB	0.093	1	0.274	HEPT. EPOXIDE
12.380	* not found *			1		g. CHLORDANE
13.002	* not found *			1		ENDOSULFAN I
13.098	* not found *			1		a. CHLORDANE
14.077	* not found *			1		4,4'-DDE
14.355	* not found *			1		DIELDRIN
15.660	* not found *			1		ENDRIN
16.221	* not found *			1		ENDOSULFAN II
16.744	* not found *			1		4,4'-DDD
17.536	* not found *			1		ENDRIN ALDEHYDE
19.523	24064	BB	0.247	1	0.0466	ENDOSULFAN SULFATE
19.826	* not found *			1		4,4'-DDT
23.798	* not found *			1		ENDRIN KETONE
25.091	* not found *			1		METHOXYCHLOR
33.164	163548	BB	0.166	1	0.253 .245	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3042496\004F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 4
Sample Name	: 032896G	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 24 Apr 96 08:58 AM	Instrument Method	: EPADB5P.MTH
Report Created on	: 24 Apr 96 09:38 AM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PBLK1, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 000346

EPA SAMPLE NO.

PIBLK1F

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-A1F

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

000347

Data File Name : C:\HPCHEM\3\DATA\3041496\026F1701.D
Operator : DLP PIBK IF PTX-35 30m 0.53mmID 2uL inj.
Instrument : HP3F
Sample Name : EPA1-7-A1F
Run Time Bar Code:
Acquired on : 15 Apr 96 03:04 AM
Report Created on: 15 Apr 96 02:32 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10

Page Number : 1
Vial Number : 26
Injection Number : 1
Sequence Line : 17
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

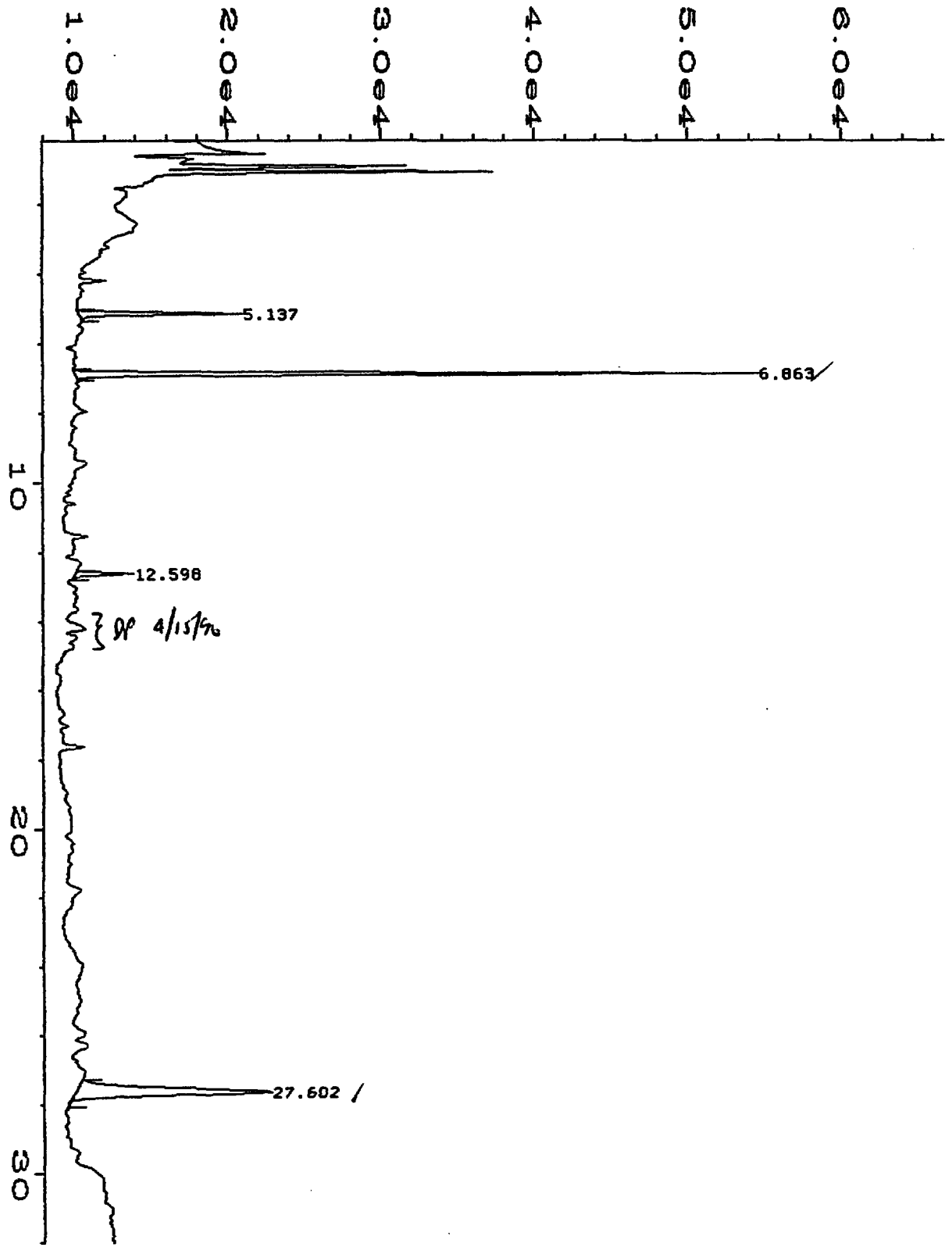
Sig. 1 in C:\HPCHEM\3\DATA\3041496\026F1701.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.863	201256	BB	0.070	1	0.193	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.602	190168	BB	0.230	1	0.194	DCB

Not all calibrated peaks were found

All calibrations are copies
RD Original stored at
043096
Pages 000347 To 000363

000348



DP 4/15/96

Data File Name	: C:\HPCHEM\3\DATA\3041496\026F1701.D				
Operator	: DLP	PIBAL IF	RTX-35	Page Number	: 1
Instrument	: HP3F		30m	Vial Number	: 26
Sample Name	: EPA1-7-A|F		0.53mm ID	Injection Number	: 1
Run Time Bar Code:				Sequence Line	: 17
Acquired on	: 15 Apr 96 03:04 AM		2nd inj	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 02:32 PM			Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM			Sample Amount	: 0
Multiplier	: 10			ISTD Amount	:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000349 EPA SAMPLE NO.

PIBLK2F

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-A2F

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

000350

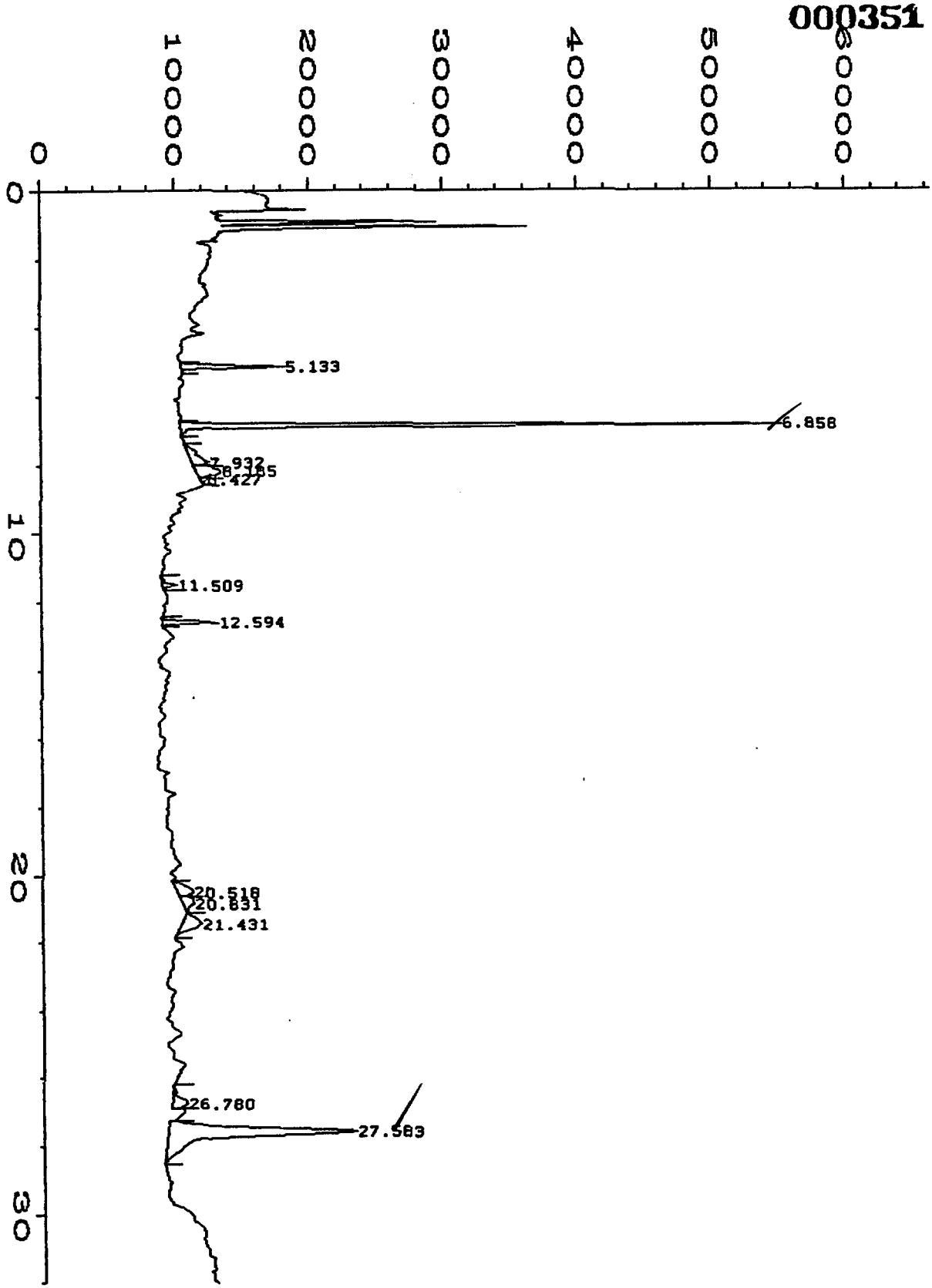
Data File Name : C:\HPCHEM\3\DATA\3041496\034F1901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-7-A2F
Run Time Bar Code:
Acquired on : 15 Apr 96 07:55 AM
Report Created on: 15 Apr 96 02:56 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : PIBLK2F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 19
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\034F1901.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.858	205590	BB	0.071	1	0.197	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
4.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.583	259576	VV	0.276	1	0.265	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041496\034F1901.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 34
Sample Name	: EPA1-7-A2F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 19
Acquired on	: 15 Apr 96 07:55 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 02:56 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PIBLK2F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 000352

EPA SAMPLE NO.

PIBLK3F

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-A3F

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

000353

Data File Name : C:\HPCHEM\3\DATA\3041596\011F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-7-A3F
Run Time Bar Code: 19 47
Acquired on : 15 Apr 96 07:47 PM
Report Created on: 15 Apr 96 08:22 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : PIBLK3F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

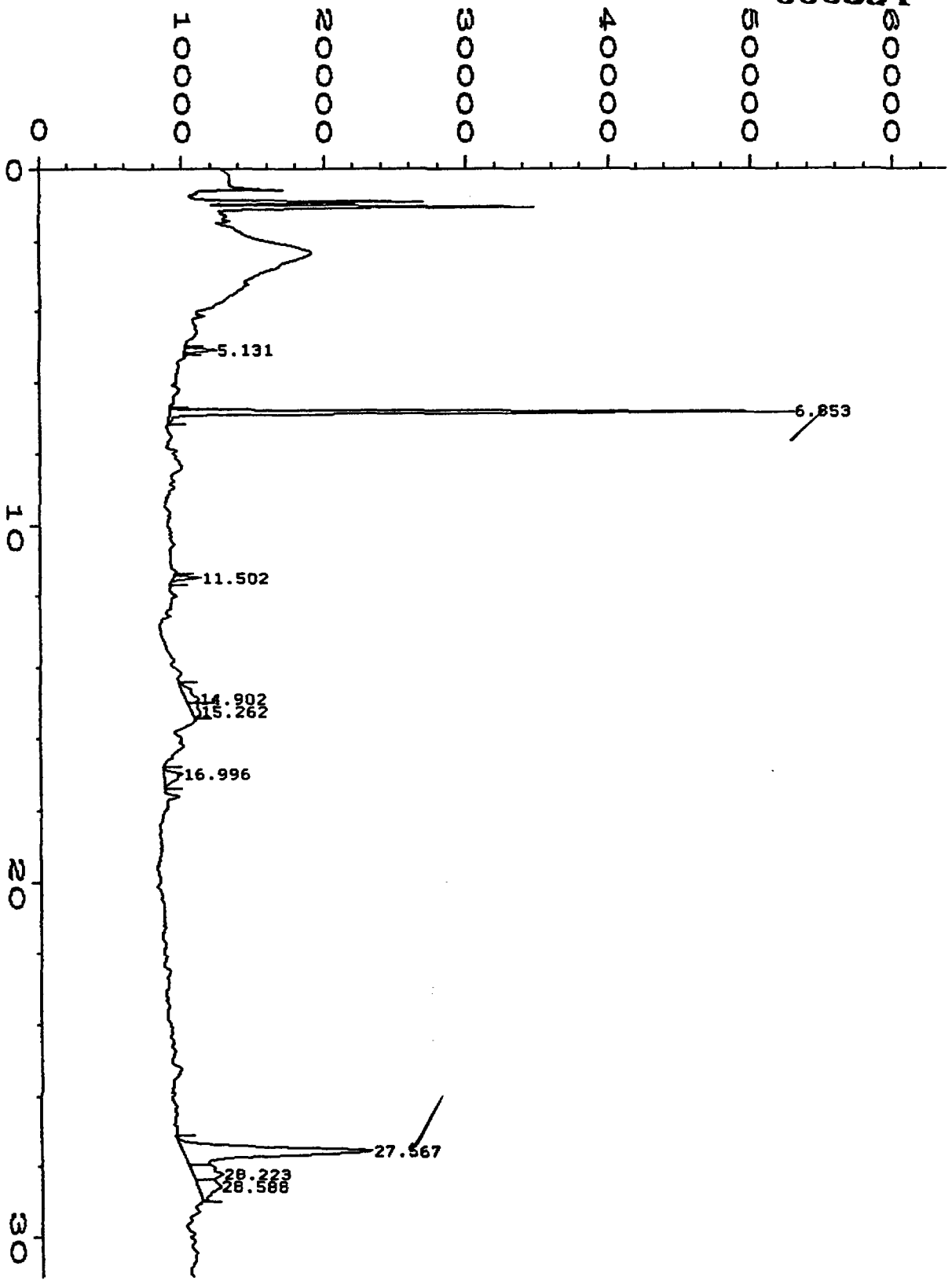
Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\011F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.853	200719	BB	0.071	1	0.193	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.902	17820	BV	0.338	1	0.0225	DIELDRIN < 1/2
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.996	19152	BB	0.213	1	0.0360	ENDRIN ALDEHYDE < 1/2
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.567	222372	BV	0.258	1	0.227	DCB

0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\011F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 11
Sample Name	: EPA1-7-A3F	Injection Number	: 1
Data Time Bar Code:	1947	Sequence Line	: 1
Acquired on	: 15 Apr 96 07:47 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 08:22 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PIBLK3F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000355 EPA SAMPLE NO.

PIBLK4F

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-A4F

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

000356

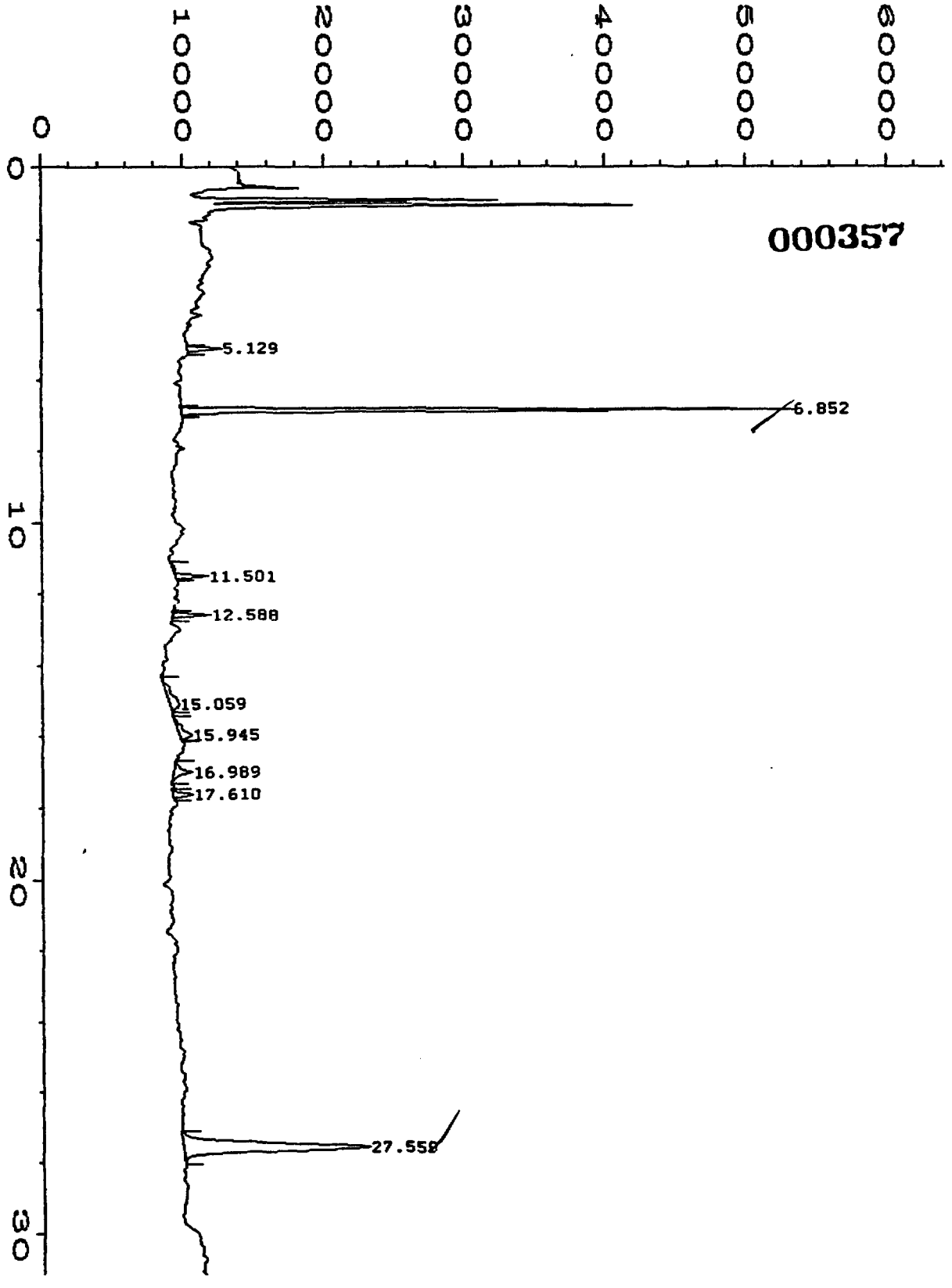
Data File Name : C:\HPCHEM\3\DATA\3041596\027F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-7-A4F
Run Time Bar Code:
Acquired on : 16 Apr 96 05:15 AM
Report Created on: 16 Apr 96 05:50 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : PIBLK4F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\027F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.852	194322	BB	0.070	1	0.186	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.945	13611	BV	0.209	1	0.0268	4,4'-DDD <1/2
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.989	14721	BV	0.145	1	0.0277	ENDRIN ALDEHYDE <1/2
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.559	206553	BV	0.245	1	0.211	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\027F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 27
Sample Name	: EPA1-7-A4F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 05:15 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 05:50 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PIBLK4F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 000358

EPA SAMPLE NO.

PIBLKF1

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-AF1

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/24/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

Data File Name : C:\HPCHEM\3\DATA\30423CAL\025F1601.D **000359**
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-7-AF1
Run Time Bar Code:
Acquired on : 24 Apr 96 03:48 AM
Report Created on: 25 Apr 96 09:09 AM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 1
Sample Info : PIBLKF1 , HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

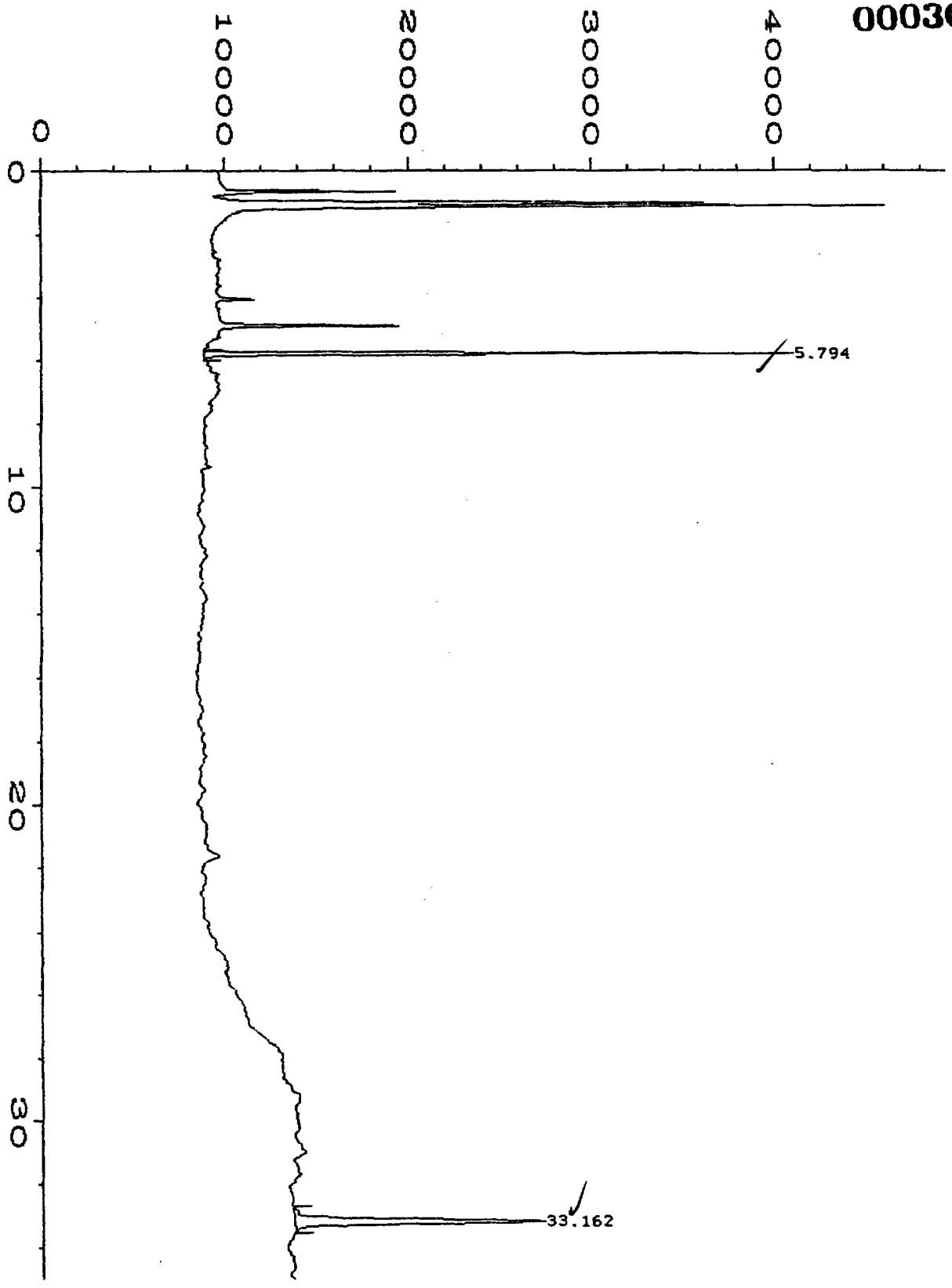
Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 16
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\30423CAL\025F1601.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
5.794	113419	BB	0.054	1	0.0197	TCX
6.596	* not found *			1		alpha-BHC
7.094	* not found *			1		beta-BHC
7.265	* not found *			1		gamma-BHC
7.704	* not found *			1		delta-BHC
8.958	* not found *			1		HEPTACHLOR
10.008	* not found *			1		ALDRIN
11.391	* not found *			1		HEPT. EPOXIDE
12.380	* not found *			1		g. CHLORDANE
13.002	* not found *			1		ENDOSULFAN I
13.098	* not found *			1		a. CHLORDANE
14.077	* not found *			1		4,4'-DDE
14.355	* not found *			1		DIELDRIN
15.660	* not found *			1		ENDRIN
16.221	* not found *			1		ENDOSULFAN II
16.744	* not found *			1		4,4'-DDD
17.536	* not found *			1		ENDRIN ALDEHYDE
19.471	* not found *			1		ENDOSULFAN SULFATE
19.826	* not found *			1		4,4'-DDT
23.798	* not found *			1		ENDRIN KETONE
25.091	* not found *			1		METHOXYCHLOR
33.162	146759	BB	0.166	1	0.0220	DCB

Not all calibrated peaks were found

000360



Data File Name	: C:\HPCHEM\3\DATA\30423CAL\025F1601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 25
Sample Name	: EPA1-7-AF1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 16
Acquired on	: 24 Apr 96 03:48 AM	Instrument Method	: EPADB5P.MTH
Report Created on	: 25 Apr 96 09:09 AM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: PIBLKF1, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000361 EPA SAMPLE NO.

PIBLKF2

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-AF2

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/24/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

000362

Data File Name : C:\HPCHEM\3\DATA\3042496\012F0201.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-7-AF2
Run Time Bar Code: 14 14
Acquired on : 24 Apr 96 02:14 PM
Report Created on: 24 Apr 96 02:53 PM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 10
Sample Info : PIBLKF2, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30 M

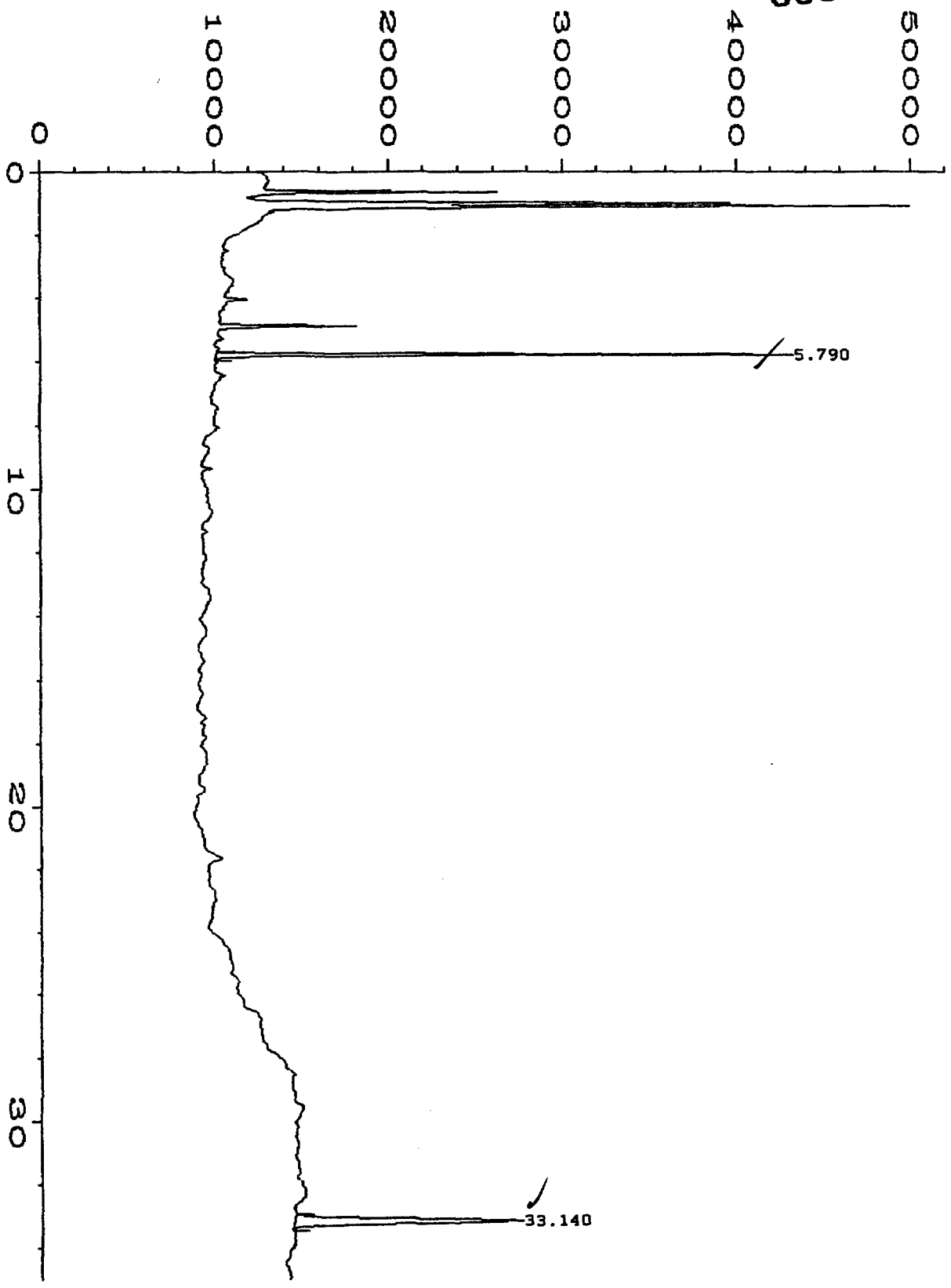
Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 2
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\012F0201.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
5.790	117298	BB	0.054	1	0.203	TCX
6.596	* not found *			1		alpha-BHC
7.094	* not found *			1		beta-BHC
7.265	* not found *			1		gamma-BHC
7.704	* not found *			1		delta-BHC
8.958	* not found *			1		HEPTACHLOR
10.008	* not found *			1		ALDRIN
11.391	* not found *			1		HEPT. EPOXIDE
12.380	* not found *			1		g. CHLORDANE
13.002	* not found *			1		ENDOSULFAN I
13.098	* not found *			1		a. CHLORDANE
14.077	* not found *			1		4,4'-DDE
14.355	* not found *			1		DIELDRIN
15.660	* not found *			1		ENDRIN
16.221	* not found *			1		ENDOSULFAN II
16.744	* not found *			1		4,4'-DDD
17.536	* not found *			1		ENDRIN ALDEHYDE
19.471	* not found *			1		ENDOSULFAN SULFATE
19.826	* not found *			1		4,4'-DDT
23.798	* not found *			1		ENDRIN KETONE
25.091	* not found *			1		METHOXYCHLOR
33.140	134847	BB	0.162	1	0.209	DCB

Not all calibrated peaks were found

000363



Data File Name	: C:\HPCHEM\3\DATA\3042496\012F0201.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 12
Sample Name	: EPA1-7-AF2	Injection Number	: 1
Run Time Bar Code:	14 14	Sequence Line	: 2
Acquired on	: 24 Apr 96 02:14 PM	Instrument Method	: EPADB5P.MTH
Report Created on	: 24 Apr 96 02:53 PM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PIBLKF2, HP3F, COLUMN: DB-5, 0.53mm ID, 2 ul INJ, 30M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 000364

EPA SAMPLE NO.

FER43MS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 15410_02MS

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

% Moisture: decanted: (Y/N) Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.56	
76-44-8	Heptachlor	0.50	
309-00-2	Aldrin	0.44	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.2	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.2	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.78	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

External Standard Report

000365

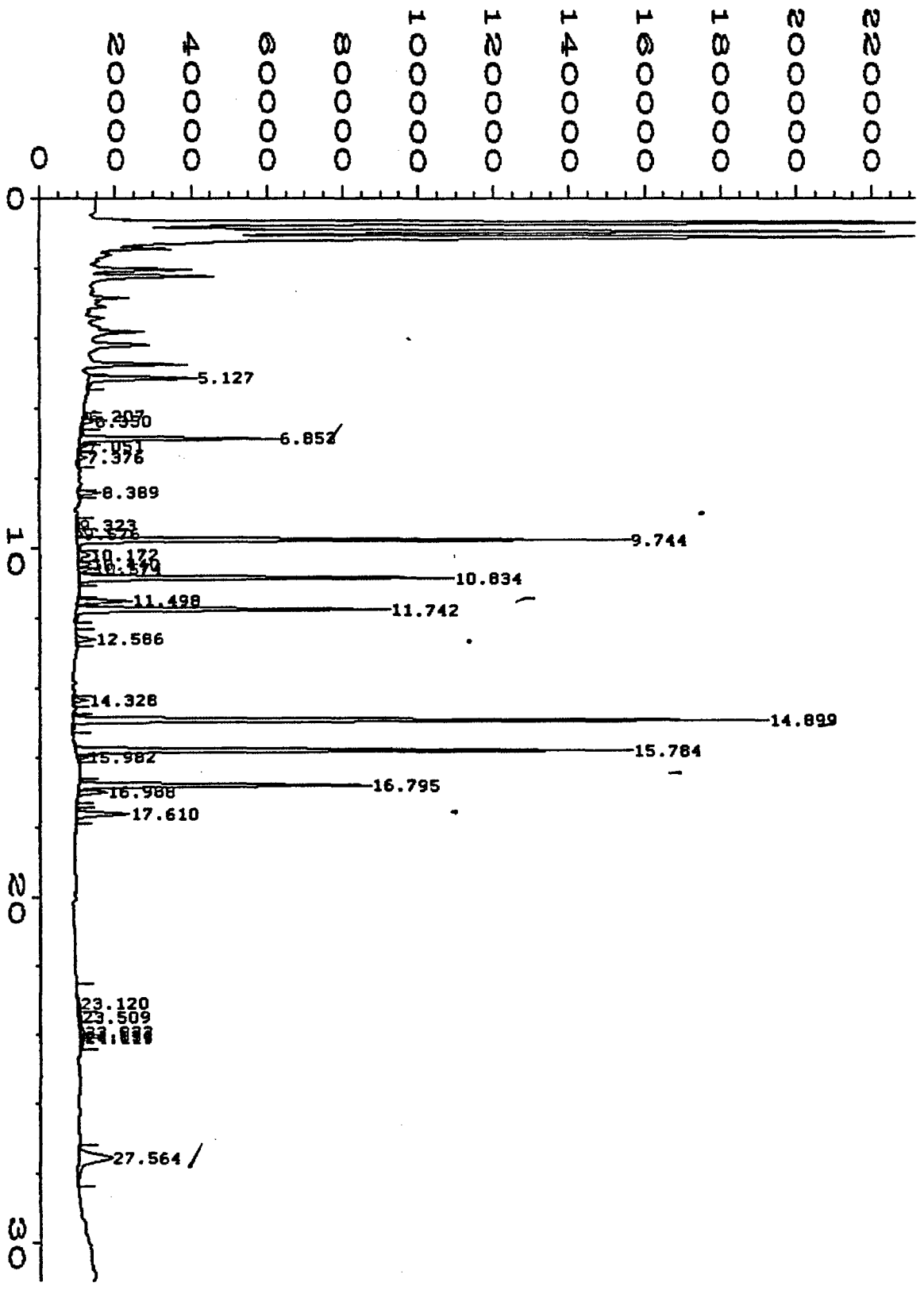
Data File Name : C:\HPCHEM\3\DATA\3041596\007F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.02MS
Run Time Bar Code: 17 25
Acquired on : 15 Apr 96 05:25 PM
Report Created on: 15 Apr 96 06:00 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : FER43MS, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\007F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.853	252922	VV	0.074	1	0.243	TCX
8.701 * not found *				1		alpha-BHC
9.744	690281	VV	0.074	1	0.560	gamma-BHC ✓ C
9.946 * not found *				1		beta-BHC
10.834	539633	VV	0.085	1	0.500	HEPTACHLOR ✓ C
10.924 * not found *				1		delta-BHC
11.742	439451	VV	0.083	1	0.441	ALDRIN ✓ C
13.187 * not found *				1		HEPT. EPOXIDE
13.690 * not found *				1		g. CHLORDANE
14.085 * not found *				1		a. CHLORDANE
14.156 * not found *				1		ENDOSULFAN I
14.603 * not found *				1		4,4'-DDE
14.899	949116	BV	0.081	1	1.199	DIELDRIN ✓ C
15.784	742518	PV	0.080	1	1.243	ENDRIN ✓ C
15.982	11430	VB	0.076	1	0.0225	4,4'-DDD NC
16.250 * not found *				1		ENDOSULFAN II
16.795	395111	BV	0.080	1	0.785	4,4'-DDT ✓ C
16.988	46402	VB	0.095	1	0.0872	ENDRIN ALDEHYDE NC
17.521 * not found *				1		ENDOSULFAN SULFATE
19.392 * not found *				1		METHOXYCHLOR
20.117 * not found *				1		ENDRIN KETONE
27.564	149531	BV	0.257	1	0.153	DCB

Not all calibrated peaks were found



Data File Name : C:\HPCHEM\3\DATA\3041596\007F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.02MS
Run Time Bar Code:
Acquired on : 15 Apr 96 05:25 PM
Report Created on: 15 Apr 96 06:00 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : FER43MS, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

1725

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000367

Data File Name : C:\HPCHEM\3\DATA\3042496\006F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.02MS
Run Time Bar Code:
Acquired on : 24 Apr 96 10:17 AM
Report Created on: 24 Apr 96 10:56 AM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 10
Sample Info : FER43MS, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M

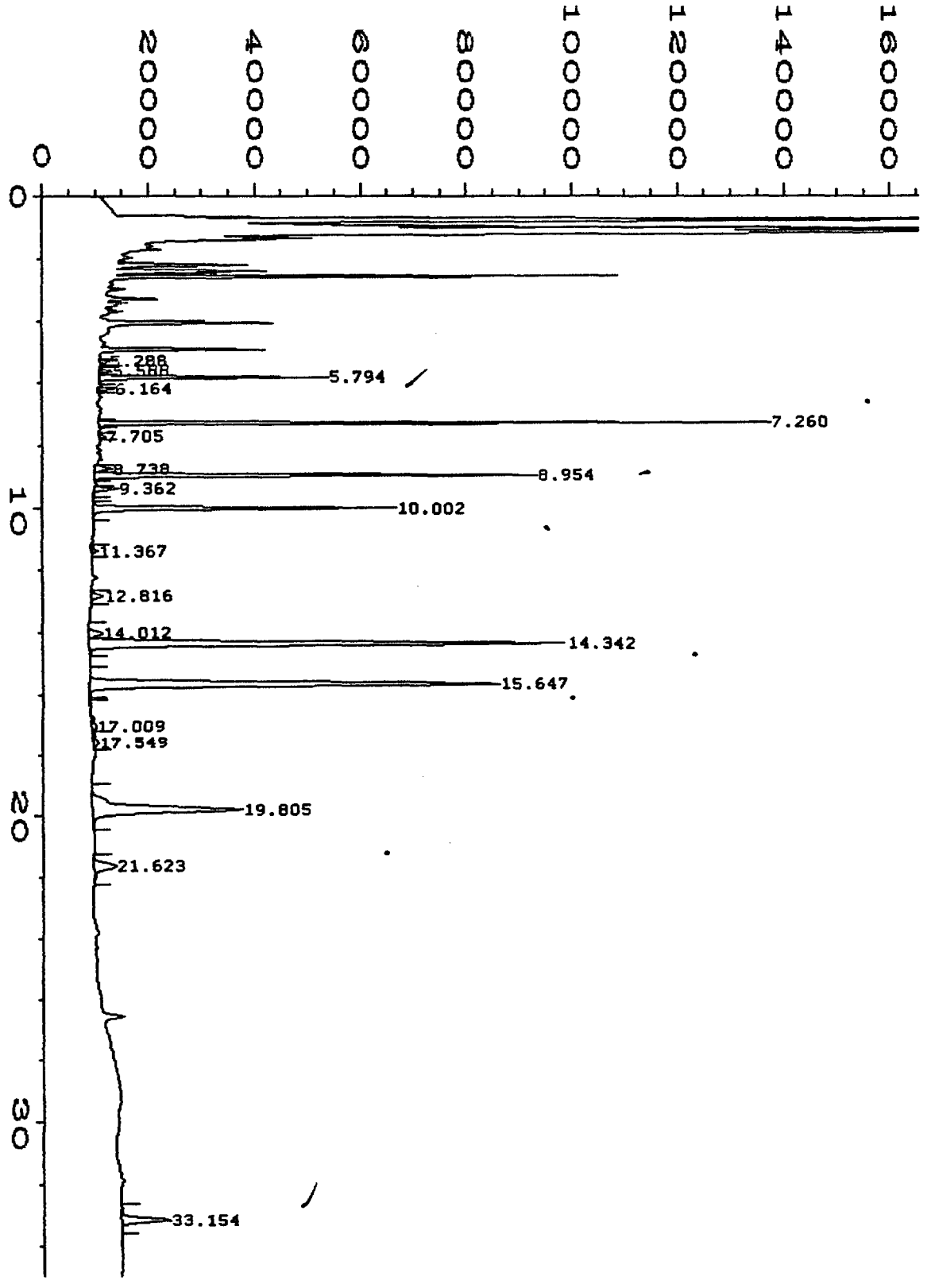
Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\006F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
5.794	165674	PV	0.058	1	0.286	TCX
6.596	* not found *			1		alpha-BHC
7.094	* not found *			1		beta-BHC
7.260	442243	PV	0.054	1	0.634	gamma-BHC ✓ C
7.705	7095	BV	0.075	1	0.0124	delta-BHC NC
8.954	398894	VV	0.074	1	0.541	HEPTACHLOR ✓ C
10.002	309002	BB	0.084	1	0.522	ALDRIN ✓ C
11.367	8222	BB	0.099	1	0.0122	HEPT. EPOXIDE NC
12.380	* not found *			1		g. CHLORDANE
13.002	* not found *			1		ENDOSULFAN I
13.098	* not found *			1		a. CHLORDANE
14.012	26087	PV	0.153	1	0.0476	4,4'-DDE NC
14.342	780214	VB	0.135	1	1.308	DIELDRIN ✓ C
15.647	744441	BB	0.150	1	1.377	ENDRIN ✓ C
16.221	* not found *			1		ENDOSULFAN II
16.744	* not found *			1		4,4'-DDD
17.549	16647	VV	0.247	1	0.0405	ENDRIN ALDEHYDE NC
19.471	* not found *			1		ENDOSULFAN SULFATE
19.805	424112	BV	0.229	1	0.914	4,4'-DDT ✓ C
23.798	* not found *			1		ENDRIN KETONE
25.091	* not found *			1		METHOXYCHLOR
33.154	93703	BB	0.160	1	0.145	DCB

Not all calibrated peaks were found

000368



Data File Name	: C:\HPCHEM\3\DATA\3042496\006F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 6
Sample Name	: 15410.02MS	Injection Number	: 1
F Time Bar Code:		Sequence Line	: 1
Acquired on	: 24 Apr 96 10:17 AM	Instrument Method	: EPADB5P.MTH
Report Created on	: 24 Apr 96 10:57 AM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER43MS, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000369 EPA SAMPLE NO.

FER43MSD

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER43

Matrix: (soil/water) WATER Lab Sample ID: 15410_03MSD

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

% Moisture: decanted: (Y/N) Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 03/28/96

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.45	.
76-44-8	Heptachlor	0.45	.
309-00-2	Aldrin	0.45	.
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	1.0	.
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.0	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.86	.
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

External Standard Report

000370

Data File Name : C:\HPCHEM\3\DATA\3041596\008F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.03MSD
Run Time Bar Code: 1800
Acquired on : 15 Apr 96 06:00 PM
Report Created on: 15 Apr 96 06:36 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

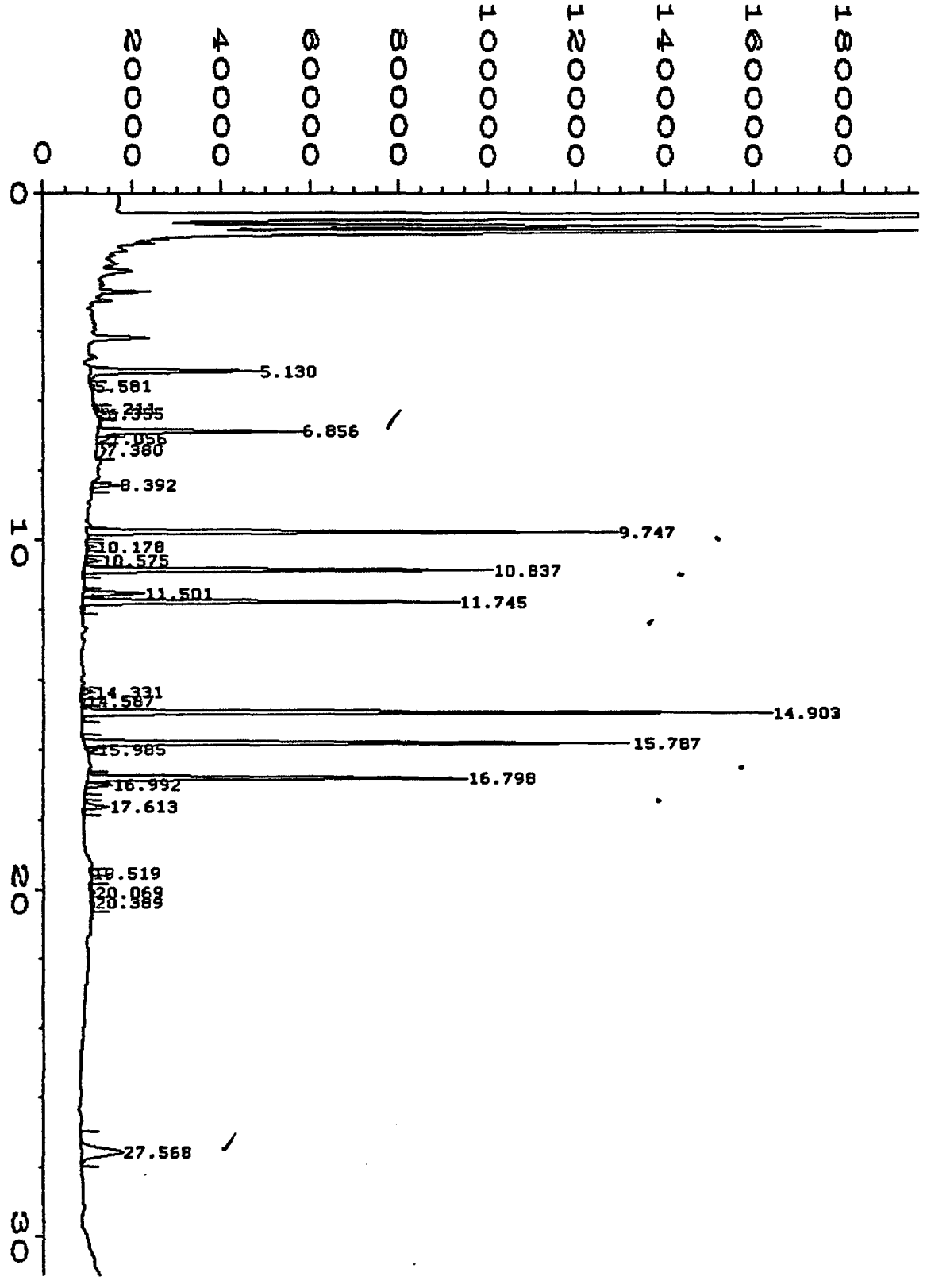
Sample Info : FER43MSD, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Sig. 1 in C:\HPCHEM\3\DATA\3041596\008F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.856	226928	BV	0.075	1	0.218	TCX
8.701	* not found *			1		alpha-BHC
9.747	548505	VB	0.073	1	0.445	gamma-BHC
9.946	* not found *			1		beta-BHC
10.837	489582	VV	0.084	1	0.454	HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.745	447513	VV	0.083	1	0.449	ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.587	4082	PB	0.072	1	0.00521	4,4'-DDE
14.903	790096	BB	0.080	1	0.998	DIELDRIN
15.787	615412	BV	0.079	1	1.030	ENDRIN
15.985	11532	VB	0.075	1	0.0227	4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.798	435707	BV	0.080	1	0.865	4,4'-DDT
16.992	35703	VB	0.096	1	0.0671	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.069	9796	BV	0.141	1	0.0136	ENDRIN KETONE
27.568	140634	BV	0.238	1	0.144	DCB

Not all calibrated peaks were found

000371



Data File Name : C:\HPCHEM\3\DATA\3041596\008F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.03MSD
Run Time Bar Code:
Acquired on : 15 Apr 96 06:00 PM
Report Created on: 15 Apr 96 06:36 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : FER43MSD, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

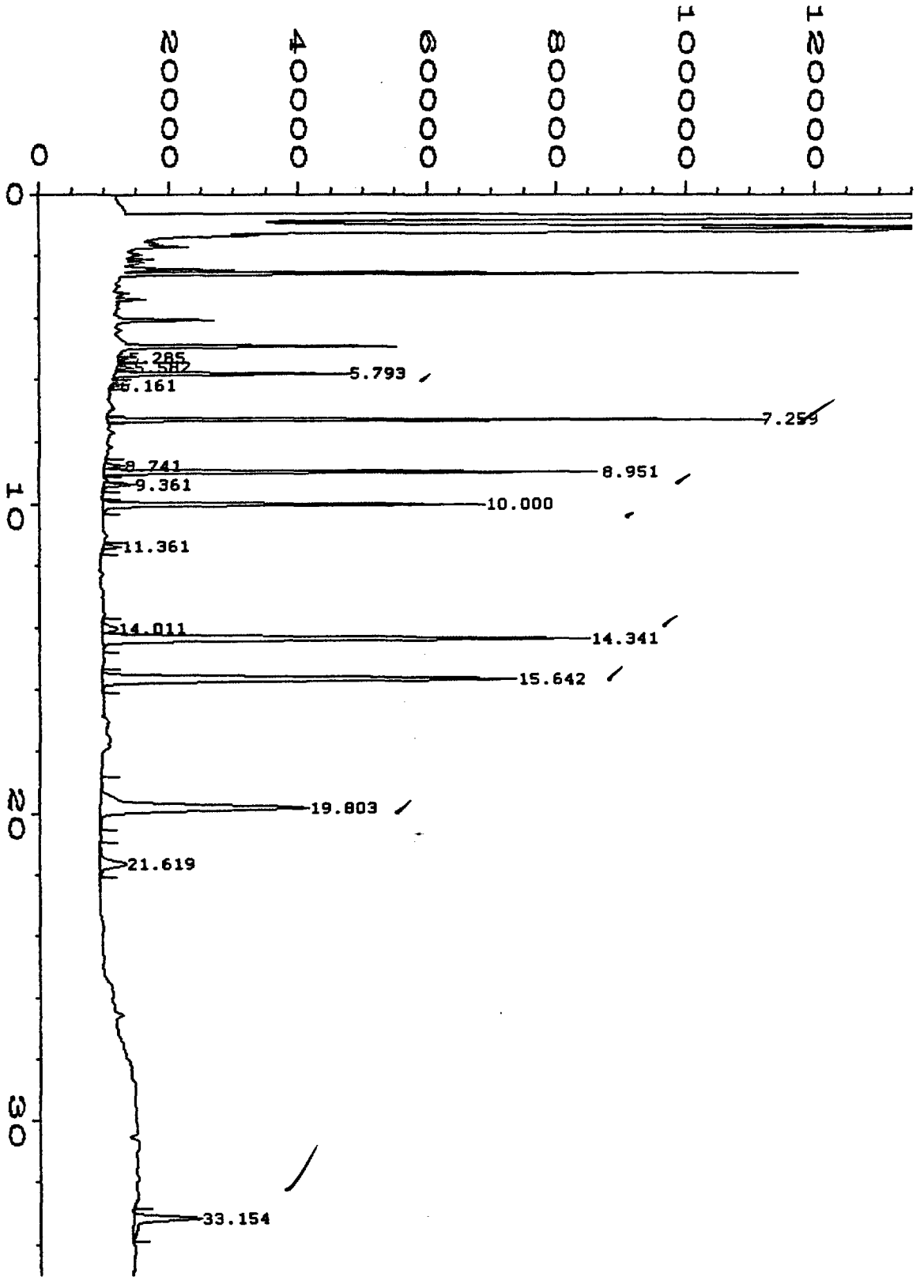
Data File Name : C:\HPCHEM\3\DATA\3042496\007F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15410.03MSD
Run Time Bar Code:
Acquired on : 24 Apr 96 10:57 AM
Report Created on: 24 Apr 96 11:41 AM
Last Recalib on : 24 APR 96 07:37 AM
Multiplier : 10
Sample Info : FER43MSD, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M

Page Number 000372
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: EPADB5P.MTH
Analysis Method : EPADB5P.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3042496\007F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
5.793	140285	VV	0.058	1	0.244	TCX
6.596	* not found *			1		alpha-BHC
7.094	* not found *			1		beta-BHC
7.259	352370	PV	0.054	1	0.505	gamma-BHC
7.704	* not found *			1		delta-BHC
8.951	365656	VV	0.074	1	0.496	HEPTACHLOR
10.000	313721	BB	0.083	1	0.530	ALDRIN
11.361	16007	BB	0.090	1	0.0237	HEPT. EPOXIDE
12.380	* not found *			1		g. CHLORDANE
13.002	* not found *			1		ENDOSULFAN I
13.098	* not found *			1		a. CHLORDANE
14.011	26430	BV	0.174	1	0.0483	4,4'-DDE
14.341	655375	VB	0.136	1	1.099	DIELDRIN
15.642	615999	BB	0.149	1	1.140	ENDRIN
16.221	* not found *			1		ENDOSULFAN II
16.744	* not found *			1		4,4'-DDD
17.536	* not found *			1		ENDRIN ALDEHYDE
19.471	* not found *			1		ENDOSULFAN SULFATE
19.803	477139	BB	0.221	1	1.028	4,4'-DDT
23.798	* not found *			1		ENDRIN KETONE
25.091	* not found *			1		METHOXYCHLOR
33.154	119743	BV	0.171	1	0.180	DCB.

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3042496\007F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 7
Sample Name	: 15410.03MSD	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 24 Apr 96 10:57 AM	Instrument Method	: EPADB5P.MTH
Report Created on	: 24 Apr 96 11:41 AM	Analysis Method	: EPADB5P.MTH
Last Recalib on	: 24 APR 96 07:37 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER43MSD, HP3F COLUMN:DB-5, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000374

jection C: <PESTEPA> 4 1018FLO,1,1

Acquired on 18-Oct-95 at 08:06:29
Modified on 18-Oct-95 at 09:01:20
Reported on 18-Oct-95 at 09:01:39

All calibrations ... RD
Pages 000374 000385 of 3096

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: RTX-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 7
Calibration file..: 1017CAL Last modified on 18-Oct-95 at 09:01:18
Method file.....: PEST2R Last modified on 18-Oct-95 at 09:01:00
Method title.....: PESTICIDES/PCB'S BY OLM01.8

SAMPLE INFORMATION

Sample name.....: FLORISIL LOT#942358
Sample ID.....: FLO
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 2

ier factors:
EXTRACTION FACTOR.....: 10.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
2	6.018	260405	0.1008	TCX
6	8.369	252503	0.0949	alpha-BHC
7	9.409	237263	0.0921	gamma-BHC
9	9.907	277605	0.1002	HEPTACHLOR
15	12.009	138067	0.0631	delta-BHC
16	12.311	61379	0.0248	HEPT. EPOXIDE
18	13.027	212202	0.1050	ENDOSULFAN I
20	13.911	410519	0.2057	DIELDRIN
22	14.440	320964	0.2109	ENDRIN
25	15.440	307922	0.1998	4,4'-DDD
26	15.662	67785	0.0381	ENDOSULFAN II
27	15.822	281012	0.2147	4,4'-DDT
29	16.693	8221	5.8765E-003	ENDRIN ALDEHYDE
32	17.373	773070	1.1330	METHOXYCHLOR
33	18.818	8562	4.8700E-003	ENDRIN KETONE
36	22.244	513663	0.2235	DCB
Total		4131144	2.8176	
Residual		2413032	1.2772	

VG Data Systems - Minichrom v1.66

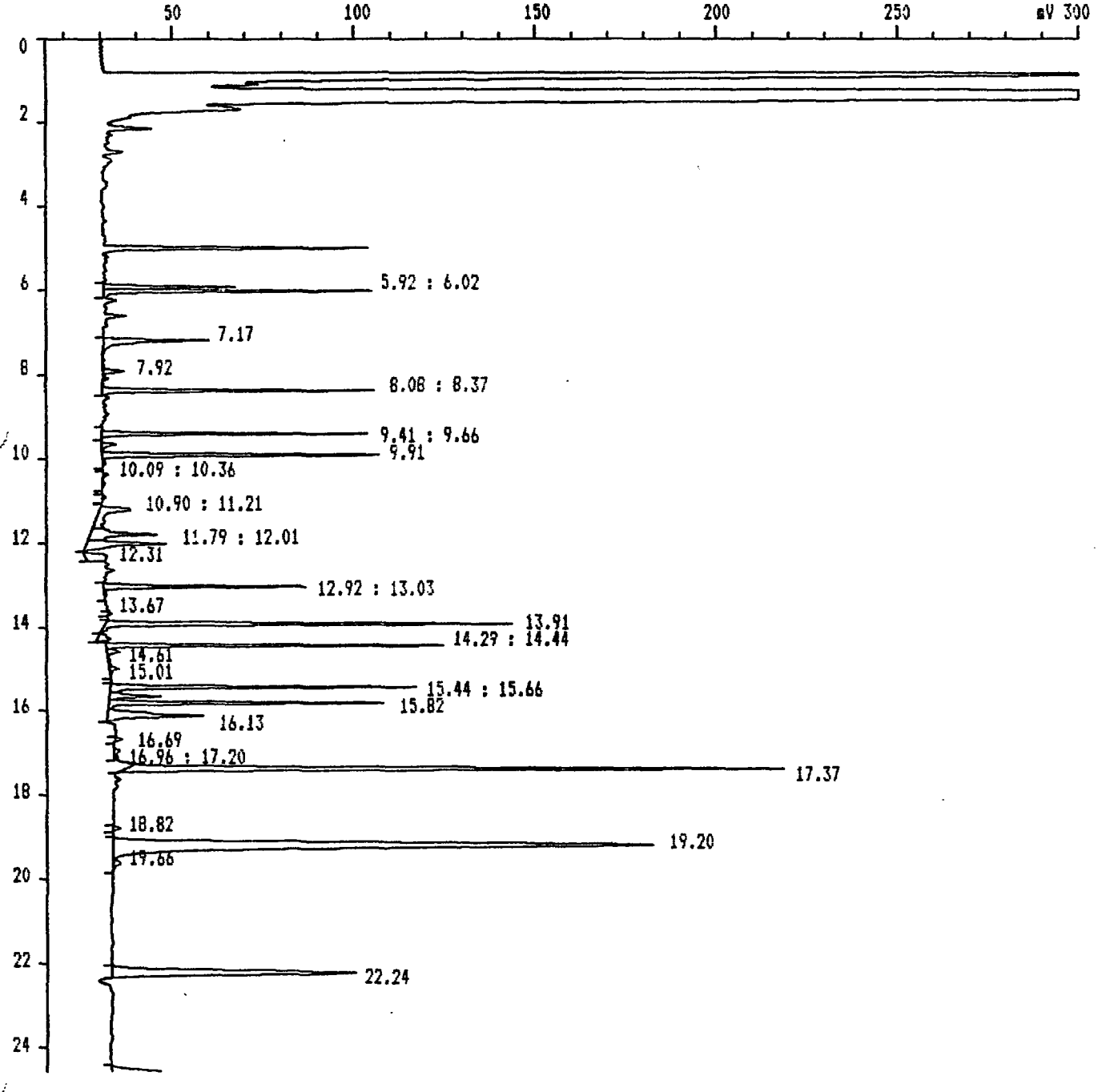
LONG PLOT

000375

Injection C: <PESTEPA> 4 1018FLO,1,1

Sample name.....: FLORISIL LOT#942358
Sample ID.....: FLO
INST: HP2R, COL: RTX-1701, 0.53mm ID, 2ul INJ

Acquired on 18-Oct-95 at 08:06:29
Reported on 18-Oct-95 at 08:59:52



VG Data Systems - Minichrom v1.66

INJECTION REPORT

jection C: <PESTEPA> 4 FLOB1012,1,1

000376

Acquired on 12-Oct-95 at 14:09:56
Modified on 12-Oct-95 at 14:37:14
Reported on 12-Oct-95 at 14:37:19

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: RTX-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 2
Calibration file..: 0926CAL Last modified on 12-Oct-95 at 14:37:12
Method file.....: PEST2R Last modified on 12-Oct-95 at 09:55:16
Method title.....: PESTICIDES/PCB'S BY OLM01.8

SAMPLE INFORMATION

Sample name.....: FLO #4 11/12
Sample ID.....: Lot# 942358
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 2

er factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
1	0.858	2692585	0.1085	
2	1.311	3235416	0.1303	
3	1.431	3225437	0.1299	
4	1.689	351232	0.0141	
5	2.169	85535	3.4456E-003	
6	2.733	24410	9.8331E-004	
7	2.956	21431	8.6329E-004	
8	3.462	11652	4.6938E-004	
9	5.022	192754	7.7647E-003	
10	5.227	5719	2.3037E-004	
11	5.947	72265	2.9111E-003	
12	6.044	187833	7.5665E-003	TCX
13	6.262	7108	2.8635E-004	
14	7.200	92905	3.7425E-003	
15	7.951	9869	3.9755E-004	
16	8.400	164431	6.3225E-003	alpha-BHC
17	8.578	5884	2.2625E-004	
18	8.973	5409	2.0797E-004	
19	9.440	166081	6.6261E-003	gamma-BHC
20	9.693	4137	1.6505E-004	
21	9.938	208957	8.0714E-003	HEPTACHLOR
22	11.218	25594	9.8862E-004	
23	12.680	21370	8.2547E-004	
24	13.062	150000	7.8395E-003	ENDOSULFAN I

No TCI!

Peak	RT mins	Area uVs	ug/L	Peak name
25	13.947	281921	0.0150	DIELDRIN
26	14.476	240694	0.0155	ENDRIN
27	15.476	206318	0.0138	4,4'-DDD
28	15.858	192979	0.0159	4,4'-DDT
29	16.093	41391	3.4111E-003	
30	16.733	6292	4.8282E-004	ENDRIN ALDEHYDE
31	17.413	560558	0.0834	METHOXYCHLOR
32	17.680	4857	7.2269E-004	
33	18.862	4670	2.8907E-004	ENDRIN KETONE
34	22.302	347409	0.0163	DCB
Total		12855101	0.6076	
Residual		0	0.0000	

000377

FLD
Lot# 942358

VG Data Systems - Minichrom v1.66

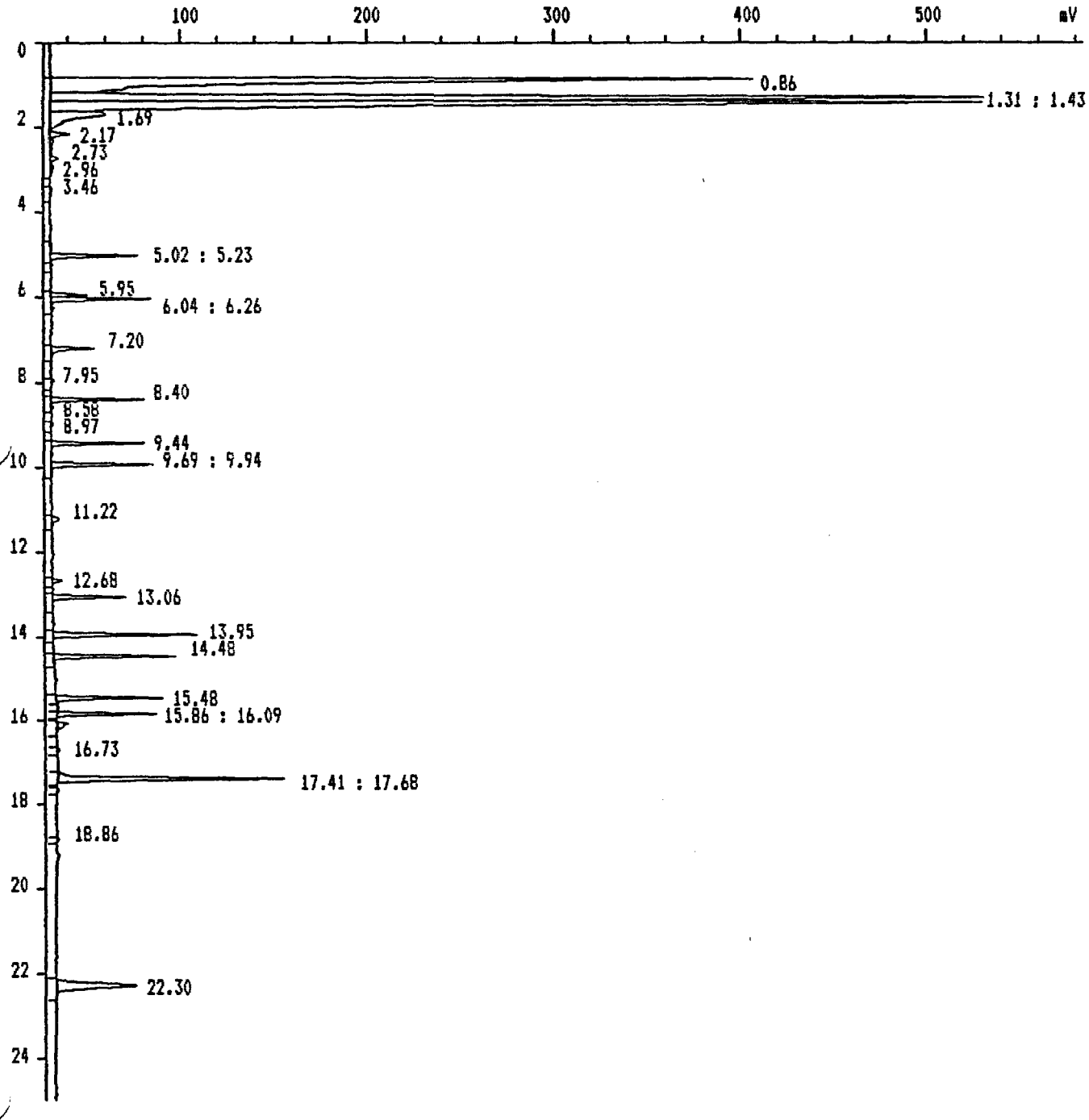
LONG PLOT

000378

jection C: <PESTEPA> 4 FLOB1012,1,1

Sample name.....: FLO #4 11/12
Sample ID.....: LOT #942358
INST: HP2R, COL: RTX-1701, 0.53mm ID, 2ul INJ

Acquired on 12-Oct-95 at 14:09:56
Reported on 12-Oct-95 at 14:37:29



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000379

Injection C: <PESTEPA> 4 1017CAL,16,1

Acquired on 18-Oct-95 at 00:02:17
Modified on 19-Oct-95 at 07:19:42
Reported on 19-Oct-95 at 07:47:56

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: RTX-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 1017CAL Last modified on 18-Oct-95 at 19:41:26
Method file.....: PEST2RP Last modified on 19-Oct-95 at 07:47:00
Method title.....: PESTICIDES/PCB'S BY OLM01.8

SAMPLE INFORMATION

Sample name.....: EPA1-12-A
Sample ID.....: INDAM1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 20

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	6.027	516467	0.0400	TCX
4	8.378	532358	0.0400	alpha-BHC
6	9.422	515292	0.0400	gamma-BHC
7	9.916	553915	0.0400	HEPTACHLOR
10	13.036	404016	0.0400	ENDOSULFAN I
12	13.924	798106	0.0800	DIELDRIN
13	14.449	608731	0.0800	ENDRIN
14	15.449	616327	0.0800	4,4'-DDD
16	15.831	523487	0.0800	4,4'-DDT
20	17.382	1364634	0.4000	METHOXYCHLOR
23	22.258	919280	0.0800	DCB
Total		7352614	1.0000	
Residual		307664	0.0460	

VG Data Systems - Minichrom v1.66

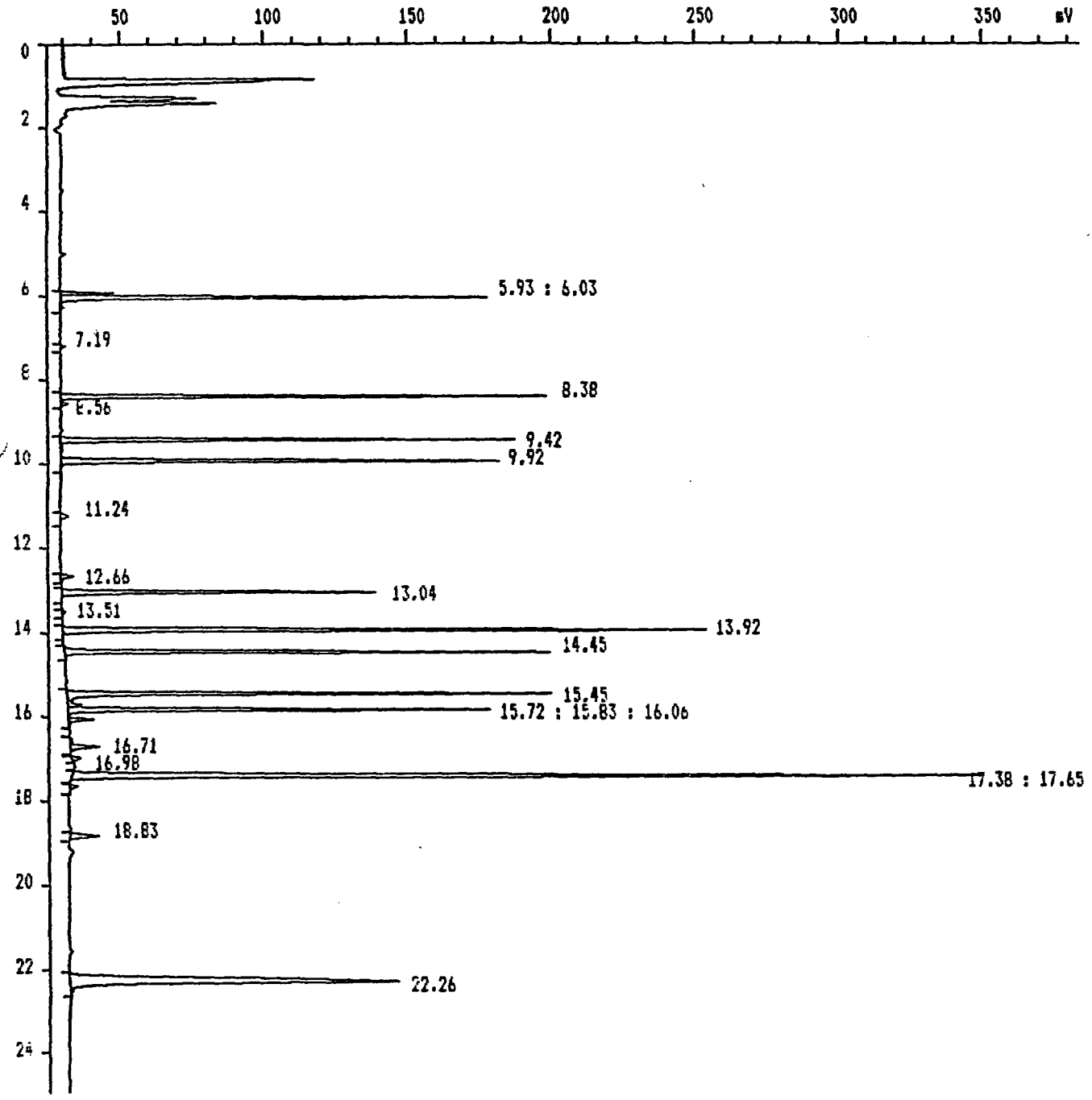
LONG PLOT

000380

Injection C: <PESTEPA> 4 1017CAL,16,1

Sample name.....: EPA1-12-A1
Sample ID.....: INDAM1
INST: HP2R, COL: RTX-1701, 0.53mm ID, 2ul INJ

Acquired on 18-Oct-95 at 00:02:17
Reported on 18-Oct-95 at 07:01:11



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000381

)ection C: <PESTEPA> 4 1017CAL,18,1

Acquired on 18-Oct-95 at 01:05:38
Modified on 19-Oct-95 at 07:21:22
Reported on 19-Oct-95 at 07:48:10

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: RTX-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 1017CAL Last modified on 18-Oct-95 at 19:41:26
Method file.....: PEST2RP Last modified on 19-Oct-95 at 07:47:00
Method title.....: PESTICIDES/PCB'S BY OLM01.8

SAMPLE INFORMATION

Sample name.....: EPA1-16-A IC
Sample ID.....: INDBM IC
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 22

:tention time update.....: Initialise
.libration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	6.031	553051	0.0400	TCX
6	10.596	502349	0.0400	ALDRIN
8	11.391	299525	0.0400	beta-BHC
10	11.960	437372	0.0400	delta-BHC
11	12.360	494895	0.0400	HEPT. EPOXIDE
13	13.182	491255	0.0400	g. CHLORDANE
14	13.333	476326	0.0400	a. CHLORDANE
15	13.511	805525	0.0800	4,4'-DDE
17	15.644	711292	0.0800	ENDOSULFAN II
18	16.707	559611	0.0800	ENDRIN ALDEHYDE
20	17.596	691212	0.0800	ENDO. SULFATE
22	18.831	703207	0.0800	ENDRIN KETONE
24	22.262	962464	0.0800	DCB
)tal		7688084	0.7600	
.esidual		157643	0.0144	

VG Data Systems - Minichrom v1.66

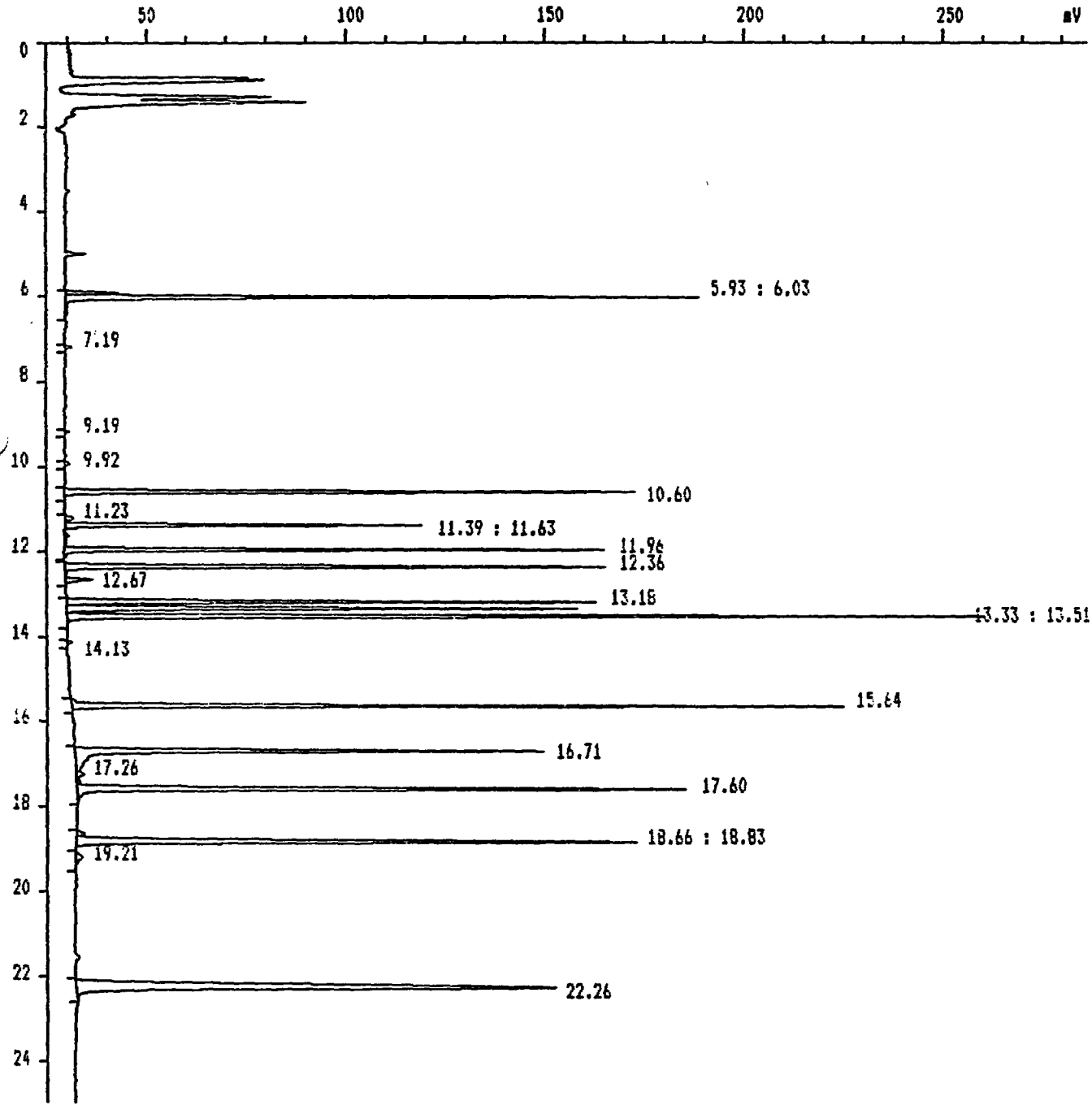
LONG PLOT

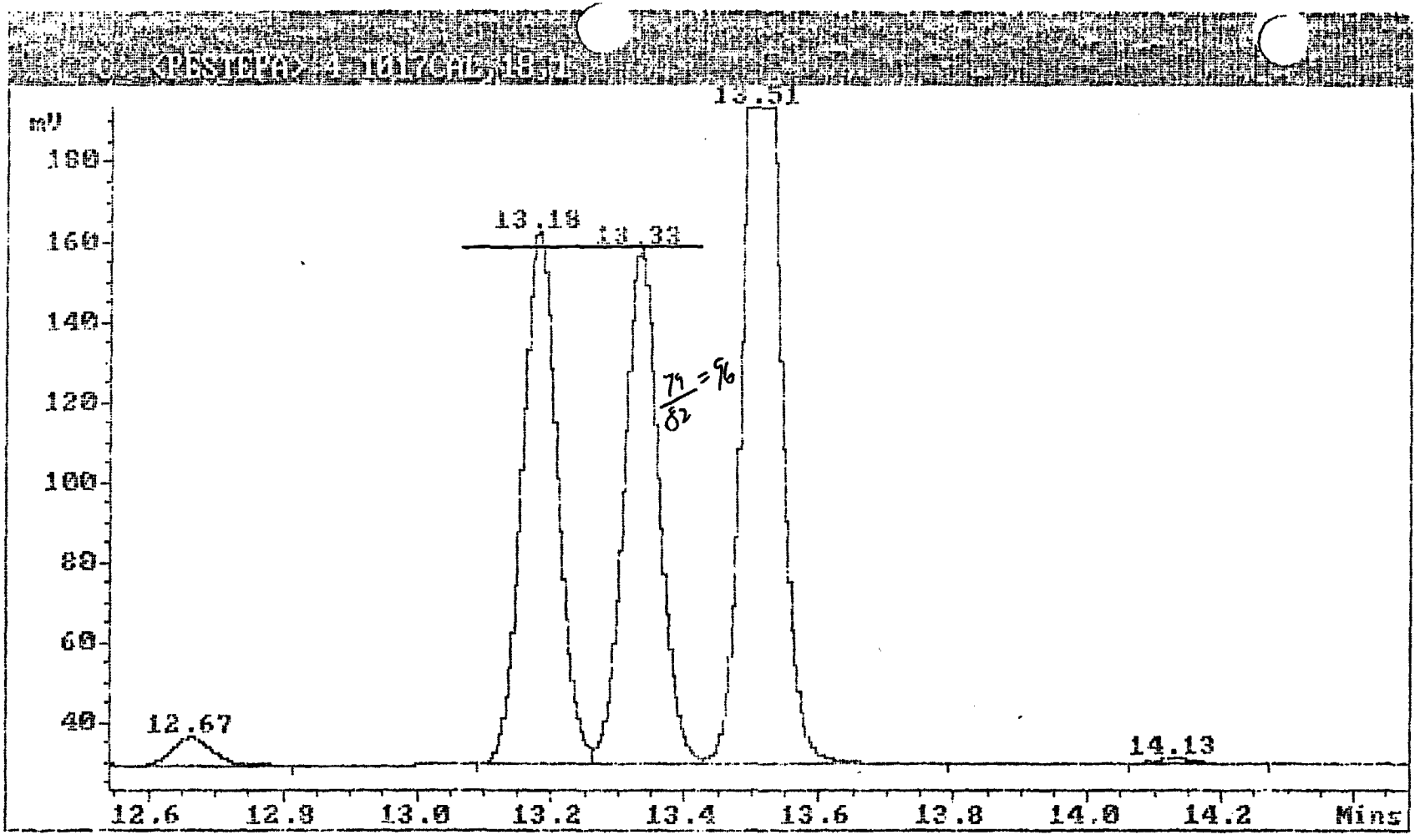
Section C: <PESTEPA> 4 1017CAL,18,1

000382

Sample name.....: EPA1-16-A1f
Sample ID.....: INDBM1f
INST: HP2R, COL: RTX-1701, 0.53mm ID, 2ul INJ

Acquired on 18-Oct-95 at 01:05:38
Reported on 18-Oct-95 at 07:10:40




mV
180
160
140
120
100
80
60
40
12.67
13.18
13.33
13.51
14.13
12.6
12.9
13.0
13.2
13.4
13.6
13.8
14.0
14.2
Mins

000383

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000384

jection C: <PESTEPA> 4 FLO1012,2,1

Acquired on 12-Oct-95 at 08:53:11
Modified on 12-Oct-95 at 09:57:28
Reported on 12-Oct-95 at 09:57:50

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: RTX-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 8
Calibration file..: 0926CAL Last modified on 12-Oct-95 at 09:57:26
Method file.....: PEST2R Last modified on 12-Oct-95 at 09:55:16
Method title.....: PESTICIDES/PCB'S BY OLM01.8

SAMPLE INFORMATION

Sample name.....: TCP 0.05
Sample ID.....: EPA1-3-A
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 3

er factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
1	0.849	444312	0.0272	
2	1.307	399868	0.0244	
3	1.427	443352	0.0271	
4	4.720	343963	0.0210	
5	5.013	76751	4.6912E-003	
6	5.938	27212	1.6633E-003	
7	11.200	6279	3.8382E-004	
8	11.733	28775	1.7588E-003	
9	12.036	34676	2.1195E-003	
10	12.671	13374	8.1746E-004	
11	15.053	3015	1.8425E-004	
12	15.689	4832	2.9534E-004	ENDOSULFAN II
13	16.102	17097	1.0450E-003	
14	19.231	100122	6.1197E-003	
Total		1943628	0.1188	
esidual		0	0.0000	

5% = 17197

VG Data Systems - Minichrom v1.66

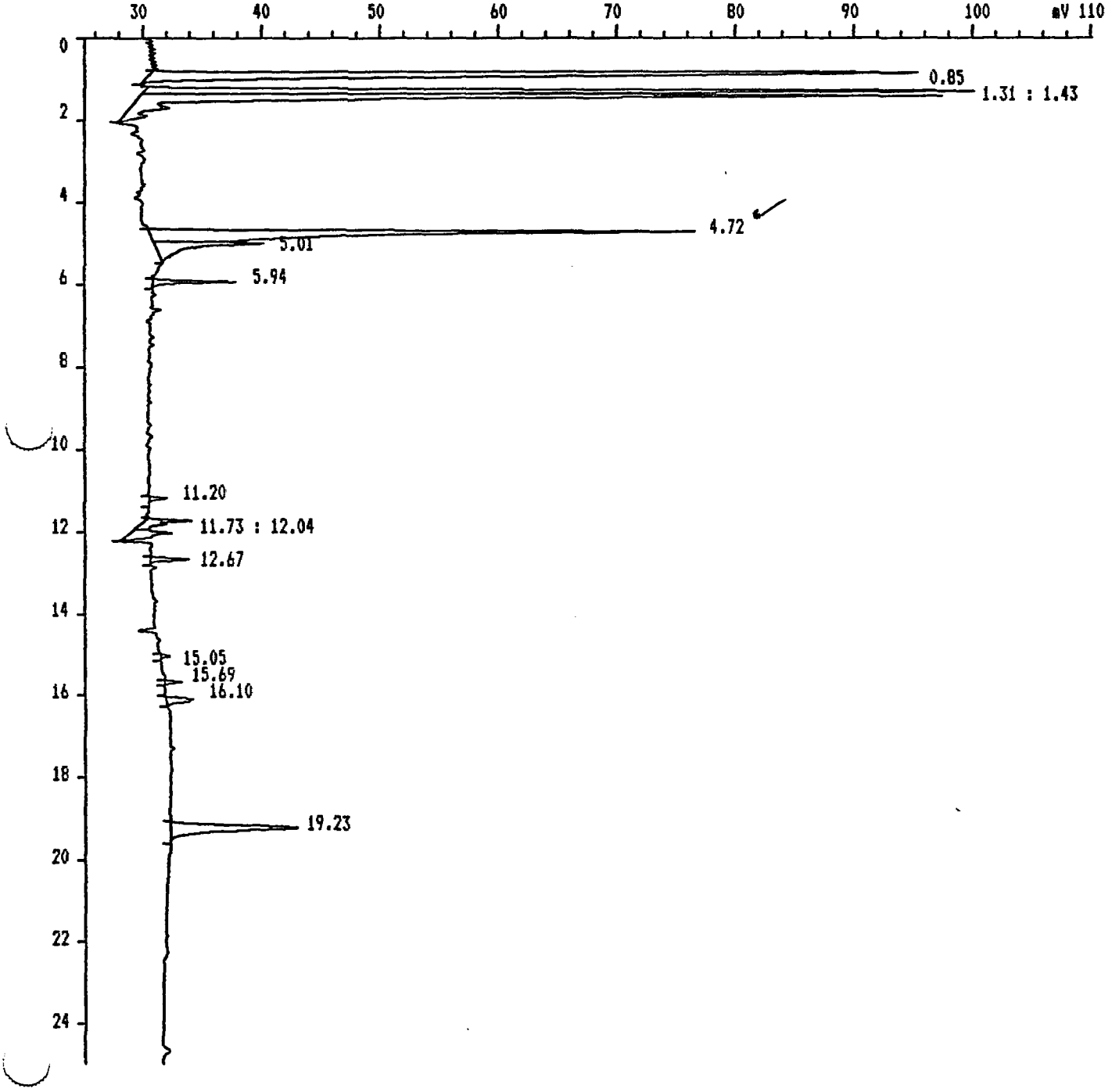
LONG PLOT

000385

jection C: <PESTEPA> 4 FLO1012,2,1

Sample name.....: TCP 0.05
Sample ID.....: EPA1-3-A
INST: HP2R, COL: RTX-1701, 0.53mm ID, 2ul INJ

Acquired on 12-Oct-95 at 08:53:11
Reported on 12-Oct-95 at 09:20:41



BOOKMARK

VI. SDG FILE PURGE DOCUMENTS

METHOD			
		PEST • PCB	OTHER
CONT. EX.	8		
SEP-F			
SONC.			

☐ RUSH ☐ REEXTRACT ☐ TCLP ( )IOXIN

SAMPLE EXTRACTION LO( )

AATSLA

American Analytical & Technical Services, Inc.
11950 Industriplex Blvd. • Baton Rouge, LA 70809

CLIENT: EPA DATE RECEIVED: 03-28-96

CASE: EXTRACT DATE: 03-28-96

SAMPLE ID (EPISODE #)	CLIENT ID	MATRIX • LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV • P	FIN PROCESS VOLUME	SCREEN Y(N)	MS SV • P	SURR SV • P	BASE pH CONFIRMATION	ACID pH CONFIRMATION	COMMENTS
				%	g	g • (mL)	mL	mL	mL	mL	mL	mL	mL		µL	µL			
mlB0328-D	S-BIK	H_2O	7			1000							1.0			500		<2	
mlB0328-E	S-BIK	H_2O	7			1000							1.0			500		<2	
15410-01	FER 43	H_2O	7			1000							1.0			500		<2	MS517
15410-02MS	FER 43MS	H_2O	7			1000							1.0		500	500		<2	
15410-03MSD	FER 43MSD	H_2O	7			1000							1.0		500	500		<2	
15410-04	FER 57	H_2O	7			1000							1.0			500		<2	
PC-032896 ~~15410~~ 15410-05	FER 58	H_2O	7			1000							1.0			500		<2	
15410-06	FER 61	H_2O	7			1000							1.0			500		<2	
15410-07	FER 62	H_2O	7			1000							1.0			500		<2	

8/28/96

000386

INITIALS	
WEIGHING:	EXTRACTION: (DB)
CLEANUP:	KD: PC,
BLOWDOWN: PC,	
SURROG. SPIKER: PC.	VERIFIER: DB
MATRIX SPIKER: PC.	VERIFIER: DB
SUBMITTED BY: P.Case	REVIEWED BY: DBeary 3/29/96

ID NUMBERS	
FLORISIL CARTRIDGE #:	
GPC COLUMN #:	
SURROGATES ID CONC #: S-96-082 100/150 ug/ml AA 022996 40F16	
MATRIX SPIKE SOL ID/CONC #(S): S-95-342 100/150 ug/ml JR 020896 30F7	
MISC:	

COMMENTS
ACID ONLY
StartTime 15:45 StopTime ACID

Lot# CH_2Cl_2 BM036

[EX013-0393-01]

№ 14308

SAMPLE EXTRACTION LOG

AATSLA
American Analytical & Technical Services, Inc.
11950 Industriplex Blvd. • Baton Rouge, LA 70809

METHOD		PEST • PCB	OTHER
CONT. EX.		✓	
SEP-F			
SONC.			

☐ RUSH ☐ REEXTRACT ☐ TCLP ☐ DIOXIN

CLIENT: EPA DATE RECEIVED: 3/28/96

CASE: # 24517 EXTRACT DATE: 3/28/96

SAMPLE ID (EPISODE #)	CLIENT ID	MATRIX • LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV • P	FIN PROCESS VOLUME	SCREEN (Y/N)	MS SV • P	SURR SV • P	BASE pH CONFIRMATION	ACID pH CONFIRMATION	COMMENTS
				%	g	g • mL	mL	mL	mL	mL	mL	mL	mL		µL	µL			
MB0328-F	SBLK	H_2O	7			1000	10			1			1			1000			GC817
G	↓		7			1000	10			1			1			1000			
LCS0328-3	SLCS		7			1000	10			1			1		1000	1000			
4	↓		7			1000	10			1			1		1000	1000			
1546 0.01	FER43		7			1000	10			1			1			1000			
BB 3/26 .02	ms		7			1000	10			1			1		1000	1000			
.03	msd ↓		7			1000	10			1			1		1000	1000			
.04	FER57		7			1000	10			1			1			1000			
.05	FER58		7			1000	10			1			1			1000			
.06	FER61		7			1000	10			1			1			1000			
.07	FER62	↓	7	↓	↓	1000	10	↓	↓	1	↓	↓	1	↓		1000	↓	↓	

INITIALS			
WEIGHING:		EXTRACTION:	DLB
CLEANUP:	DSB	KD:	DSB
BLOWDOWN:	DSB		
SURROG. SPIKER:	DSB	VERIFIER:	PC.
MATRIX SPIKER:	DSB	VERIFIER:	PC.
SUBMITTED BY:	DSB	REVIEWED BY:	P. Case
	4/2/96		4-2-96

ID NUMBERS	
FLORISIL CARTRIDGE #:	942358
GPC COLUMN #:	
SURROGATES ID CONC #:	EPA 1-47A 12/8/95 DP
MATRIX SPIKE SOL ID/CONC #(S):	EPA 1-5A 2/1/96
MISC:	

COMMENTS
3:00 p.m. to 9:00 Am

CH_2Cl_2 – BM036
Hexane – BK986
acetone (florisil) 2435 KMTG

[EX013-0393-01]

No. 14118

000382

80

VOLATILES GC/MS RUN LOG AATS/LA

RD 043096 000388

000401

TUNE FILE ID: BFB.U 000388 METHOD FILES - BFB624 \ OLM03W (A)(B)

INSTRUMENT: HP1 DATE 12 - 29 - 95

CB/ID FILE ID: C: \122995A ARCHIVE TAPE #: VOL. #

Time	File	AATS/LA Sample ID	Client ID	Vol.	IS Area	Surr. Rec.	Lin. Chk.	Comments	OK/RR
0828	ABFB 1229	V-95-195	50 ng BFB	1uL				MS317 (3/90)	OK
0846	B1168	-384	VSTD050	5mL					OK
0915	69	↓	↓ ↓						—
0955	70	-385	200						OK
1024	71	-386	100						OK
1052	72	-387	020						OK
1120	73	-388	010						OK
1210	74	-381	VBLK 1V	5mL	✓	✓	✓		OK
1241	95	USEPA 14143.01	X5909		✓	✓	✓	Case 24264 QB1 Fy96 19	OK
1309	76	.02	X5910		✓	✓	X	acetone 22 2-But 25 20	RR
1403	77	.01	X5909		✓	✓	✓	19	OK
1431	78	USEPA 14259.01	EACT 6		✓	✓	✓	22	OK
1500	79	.02	7		✓	✓	✓	23	OK
1529	80	.03	EADD 1		✓	✓	✓	24	OK
1557	81	.06	2		✓	✓	✓	25	OK
1626	82	.07	3		✓	X	X	Cis 1,2 DCE 5438 26	RR 100X
1655	83	V-95-381	VCBLK 1V	5mL	✓	✓	X	24 122995	RR ~~OK~~
1726	24	↓	↓		✓	✓	✓	26	OK
1757	85	14259.04	EADD1 MS		✓	✓	✓	17	OK
1825	86	.05	1 MSD		✓	✓	✓	18	OK
1854	87	.07	3DL	50uL	✓	✓	✓	50ul→5mL 100x dil 26	

Judy Resnick
Analyst Signature

VOLATILES GC/MS RUN LOG — AATS/LA

80

000389

TM

TUNE FILE ID: BFB.U — METHOD FILES BFB24A \ OLM03_W

INSTRUMENT: HP1 — DATE 4-4-96

CB/ID FILE ID: C:\040496A — ARCHIVE TAPE #: VOL. #

Time	File	AATS/LA Sample ID	Client ID	Vol.	IS Area	Surr. Rec.	Lin. Chk.	Comments	OK/RR
0957	ABFB 0404	V 96-423	BFB	1uL				3/90	OK
1014	B2967	-442	VSTD050	5mL					ok
1041	68	↓	↓	↓					—
1116	69	450	VBLK1J	5mL	✓	✓	✓		ok
1159	70	↓ EPA	↓	↓	✓	✓	✓		ok
1231	71	15410.01	FER 43	5mL	✓	✓	✓	pH=7 1	ok
1258	72	1 .04	57		✓	✓	✓	2	OK
1324	B2973	.05	58		✓	✓	✓	3	ok
1351	74	.06	61		✓	✓	✓	4	OK
1418	75	.07	62		✓	✓	✓	Chro 5	OK
1444	76	.08	FES 98		✓	✓	✓	Chro 7	OK
	77	.02	43MS					8	
	78	.03	43MSD	✓				040496 9	
	B2977								
1522	B2977	15410.07	FER 62	5mL	—	—	—	1	—
1615	78	.08	FES 98	↓	✓	✓	✓	Chro 2	
1642	79	.07	FER 62		✓	✓	✓	Chro 3	
1709	80	.08	FES 98		✓	✓	✓	Chro 4	
1736	81	.07	FER 62		✓	✓	✓	5	
1802	82	.02	FER 43 MS		✓	✓	✓	8	OK
1829	83	.03	↓ MSD	↓	✓	✓	✓	9	OK

B=
T=

Judy Resnick
Analyst Signature

VOLATILES GC/MS RUN LOG AATS/LA

81

000390

TUNE FILE ID: BFB.U METHOD FILES BFB624A \ OLM03-W

INSTRUMENT: HP1 DATE 4-4-96

CB/ID FILE ID: C:\040496A ARCHIVE TAPE #: VOL. #

2157 Time	File	AATS/LA Sample ID	Client ID	Vol.	IS Area	Surr. Rec.	Lin. Chk.	Comments	OK/ RR
1856	B2984	15410.02	FER 43 MS	5mL	✓	✓	✓	25	OK
1923	85	↓ .03	↓ 43MSD	↓	✓	✓	✓	26	OK
1950	↓ 86	Sdg FER43 ase 24517	VHBLK1J	↓	✓	✓	✓	23	OK
2016	↓ 87	↓	↓	↓	✓	✓	✓	24	OK
	88	Check sparger #	1						
	↓ 89	Check sparger #	2						

Judy Resnick
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000391 BOOK 12 PAGE 175

CLIENT: USEPA DATE (MO/DAY/YR): 033196

CASE: INSTRUMENT ID (A,B,C, etc.): HP6

SAS:

METHOD NO: OLM03-S(1)(2)(3) COLUMN NO: XTI-5 0.25 # 84802

EMV: 9912 TUNE FILE ID: (DFTPP) DFTPP_CF

OTHER: DFTPICLP

TIME	INIT	CLIENT SAMPLE ID	AATS/LA LAB ID	FILE ID	SAMPLE AMOUNT wt	SAMPLE AMOUNT vol	SAMPLE AMOUNT inj	DIL. FACT.	AUTO INJ POS	ARCH TAPE NO	RUN NO
1238	✓	DFTPP	S-95-308	77310	50ng		2uL		1		1
1250	✓	SSTD050	S-96-090	11					2		2
1323	✓	020	-094	12					3		3
1349	✓	080	-093	13					4		4
1417	✓	120	-092	14					5		5
1446	✓	160	-091	15					6		6
1600		USEPA EAPR1 Ext 032396	15250-16	16	30.5g	0.5			7		7
1632	Run 10X	EAPR4 Ext 031991	.09	17					8		8
1705	✓	↓	↓	18				10X	9		9
1735		EAPR6	15250-11	19					10		10
1807		↓	.11	20				2.5X	11		11
1838	✓	EAPR7	.12	21					12		12
1911	✓	↓	.12 +3	22				2X	13		13
1942	✓	EAPR8	.13	23					14		14
2014	✓	↓	.13	24				5X			15

Q 196

A. K. [illegible]
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000392 BOOK 12 PAGE 174

(Check appropriate box. All major maintenance should be recorded in maintenance logbook.)

ROUTINE MAINTENANCE: ☒ MAJOR MAINTENANCE: ☐ In Book____Page____.

DATE: 033196 TIME: _____

COMMENTS: _____

	INTERNAL STANDARD AREAS						
Cpd.	IS #1	IS #2	IS #3	IS #4	IS #5	IS #6	
Std. RT	5·68	7·21	9·36	11·48	15·63	17·74	Run # =
NO.	m/z=	m/z=	m/z=	m/z=	m/z=	m/z=	Comment
1	—	—	—	—	—	—	50ng on col.
2	130753	343897 393721	814268	265193	126392	88637	A·033196
3	185009	387035	811072	271854	107113	74649	
4	112880	345738	196722	247423	96336	70814	
5	131157	380170	810079	262818	107224	77082	
6	137670	346507	170394	203879	93163	72302	
7	109401	353365	161812	172624	59191	44828	
8	111837	822905	121388	119831	53418	71267	
9	97643	897679	140171	159243	64498	64810	
10	91888	850023	96864	99365	45091	61076	
11	85644	823299	95593	115531	54445	69754	
12	107904	279584	118773	131176	57863	81021	
13	110625	304825	135574	175205	77719	97190	
14	97597	300938	122351	116727	82016	55099	
15	112342	361994	159278	148696	81742	57530	

Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000393

BOOK 12 PAGE 177

CLIENT: USEPA DATE (MO/DAY/YR): 033196

CASE: INSTRUMENT ID (A,B,C, etc.): HP6

SAS:

METHOD NO: OLM03-S(W)(8)(3) COLUMN NO: XTI-5 0.25 #84892

EMV: 2212 TUNE FILE ID: DFTPP / DFTPP_CF

OTHER: DFTPPCLP

TIME	INIT	CLIENT SAMPLE ID	AATS/LA LAB ID	FILE ID	SAMPLE AMOUNT wt	SAMPLE AMOUNT vol	SAMPLE AMOUNT inj	DIL. FACT.	AUTO INJ POS	ARCH TAPE NO	RUN NO
2045	R.R	USEPA EAPRO Ext 031996	15250.15	77325	30.5g	0.5	2uL		16		1
2117	R.R	↓ ↓	.15	26				5X	17		2
2148	R.R	EAPR1 Ext 032396	.16	27					18		3
2220	R.R	EAP06 Ext 031996	11 .17	28					19		4
2253	R.R	↓	11 .18	29				25X	20		5
2324	R.R	EAPRO	15250.15	30				5X	21		6
2355	R.R	↓ ↓	.15	31					22		7
0028	R.R	EAPR1 Ext 032396	.16	32					23		8
											9
											10
											11
											12
											13
											14
											15

D. L. Rao
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000394

BOOK 12 PAGE 178

(Check appropriate box. All major maintenance should be recorded in maintenance logbook.)

ROUTINE MAINTENANCE: ☒ MAJOR MAINTENANCE: ☐ In Book___Page___.

DATE: 053196 TIME: _____

COMMENTS: _____

	INTERNAL STANDARD AREAS						
Cpd.	IS #1	IS #2	IS #3	IS #4	IS #5	IS #6	
Std. RT	5.68 / 130753	7.21 / 393897	9.36 / 214258	11.48 / 265193	15.63 / 126392	17.74 / 88637	Run # =
NO.	m/z=	m/z=	m/z=	m/z=	m/z=	m/z=	Comment
1	84440	228681	85313	87104	63796	34284	
2	74142	207298	88666	96357	49162	32084	
3	93289	263481	106190	107421	56626	33504	
4	89480	256803	102772	101115	522446	30576	
5	95292	256483	105715	114058	62510	37560	
6	84960	232308	92748	96408	56875	34570	
7	79061	208373	82176	95649	53566	29130	
8	90141	247206	94687	94504	47441	27650	
9							
10							
11							
12							
13							
14							
15							

D.L. Mc

Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000395

BOOK 12 PAGE 191

CLIENT: USEPA DATE (MO/DAY/YR): 040496

CASE: - INSTRUMENT ID (A,B,C, etc.): HP6

SAS:

METHOD NO: OLM03-S(1)(2)(3) COLUMN NO: XTI-5 0.25 #84809

EMV: 2282 TUNE FILE ID: (DFTPP) / DFTPP_CF

OTHER: DFTPPCLP

TIME	INIT	CLIENT SAMPLE ID	AATS/LA LAB ID	FILE ID	SAMPLE AMOUNT wt	SAMPLE AMOUNT vol	SAMPLE AMOUNT inj	DIL. FACT.	AUTO INJ POS	ARCH TAPE NO	RUN NO
1625 1639	✓	DFTPP	S-95-308	11 T7412	50ng		2µL		1		1
1715	X	SSTD050	S-96-090	12 13					2		2
1750	✓	↓	↓ -090	13 14					3		3
1822	✓	SBLK69 Ext 032896	MB-D	77414	1000	1.0			4		4
1852	✓	USEPA FER43	15410.01	15					5		5
1922	R.R	MS	.02	16					6		6
1952	R.R	MSD	.03	17					7		7
2023	✓	FER57	.04	18					8		8
2053	✓	58	.05	19					9		9
2124	✓	61	.06	21 20					10		10
2154	✓	62	.07	22					11		11
2225	✓	SBLK68 Ext 033096	MB-E	23	30.0g	0.5			12		12
2255	✓	USEPA FES00	15411.01	24					13		13
2326	✓	FER94	.02	25					14		14
2356	✓	↓ 95	↓ .03	26					15		15

R 040596

Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000396

BOOK 12 PAGE 192

(Check appropriate box. All major maintenance should be recorded in maintenance logbook.)

ROUTINE MAINTENANCE: ☒ MAJOR MAINTENANCE: ☐ In Book___Page___.

DATE: 040496 TIME: _____

COMMENTS: _____

	INTERNAL STANDARD AREAS						
Cpd.	IS #1	IS #2	IS #3	IS #4	IS #5	IS #6	
Std. RT	5.63	7.16	9.30	11.42	15.58	17.69	Run # =
NO.	m/z=	m/z=	m/z=	m/z=	m/z=	m/z=	Comment
1	—	—	—	—	—	—	Sony no col
2		C.C Failed					
3	67676	198547	92655	108739	82765	91714	
4	76838	246510	113318	120030	74379	70361	
5	72173	225387	98118	104710	66786	69963	
6	77418	225735	103146	106666	69064	70854	
7	70860	199618	97920	110856	92692	91673	
8	81734	247107	113671	129552	91051	88767	
9	87089	274130	128228	137173	93367	89818	
10	97412	303249	135615	145967	83496	83150	
11	65666	197757	83446	92030	75433	79762	
12	80469	252794	120551	126457	66726	65045	
13	67357	203341	90466	100382	64409	60266	
14	78559	220910	96264	104268	71877	66145	
15	83904	253854	119815	129224	84443	78320	

D. L. Mon
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000397

BOOK 12 PAGE 193

CLIENT: USEPA DATE (MO/DAY/YR): 040496

CASE: INSTRUMENT ID (A,B,C, etc.): HP6

SAS:

METHOD NO: OLM03-S(1)(2)(3) COLUMN NO: XTI-5 0.25 #84802

EMV: 2282 TUNE FILE ID: (DFTPP) DFTPP_CF

OTHER: DFTPPCLP

TIME	INIT	CLIENT SAMPLE ID	AATS/LA LAB ID	FILE ID	SAMPLE AMOUNT wt	SAMPLE AMOUNT vol	SAMPLE AMOUNT inj	DIL. FACT.	AUTO INJ POS	ARCH TAPE NO	RUN NO
0026	✓	USEPA Ext FER97 033096	15411-04 ~~77427~~	77427	30.0g	1.0	2µL		16		1
0057	✓	98	15411-05	28					17		2
0127	✓	99	.06	29					18		3
0158	✓	99 MS	.07	30					19		4
0228	✓	99 MSD	.08	31					20		5
0259	✓	34	15427-01	32					21		6
											7
											8
											9
											10
											11
											12
											13
											14
											15

Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000398

BOOK 12 PAGE 194

(Check appropriate box. All major maintenance should be recorded in maintenance logbook.)

ROUTINE MAINTENANCE: ☒ MAJOR MAINTENANCE: ☐ In Book___Page___.

DATE: 041496 TIME: _____

COMMENTS: _____

	INTERNAL STANDARD AREAS						
Cpd.	IS #1	IS #2	IS #3	IS #4	IS #5	IS #6	
Std. RT	5.63 / 67676	7.16 / 198547	9.30 / 92665	11.42 / 108739	15.58 / 82765	17.69 / 91714	Run # =
NO.	m/z=	m/z=	m/z=	m/z=	m/z=	m/z=	Comment
1	67874	209987	100737	119692	81858	66871	
2	65405	193111	85286	90595	68179	65235	
3	76088	226571	99023	105478	68228	65697	
4	63268	176043	85109	94306	68208	64139	
5	68016	186843	88974	95822	69641	64007	
6	83412	246790	109656	123242	78468	69442	
7							
8							
9							
10							
11							
12							
13							
14							
15							

Analyst Signature

000399

RTX-35

AATSLA

PESTICIDE - PCB
GC RUN LOG

INSTRUMENT 3F/3R
INJ. VOL. 2 uL
METHOD SUBDIRECTORY 304/496

DATE	TIME 3F	TIME 3R	AATS I.D.	EPA I.D.	DATA FILE NAME		COMMENTS	INT.
04/14/96	1306		EPA1-8-A1F	Rex 1F	003	F0201		
	1342		EPA1-9-A1F	Pem 1F	004	0301		
	1455		EPA1-20-A1F	AR1660 1F	006	0401		
	1532		EPA1-22-A1F	AR 1221 1F	007	0501		
	1608		EPA1-24-A1F	AR1232 1F	008	0601		
	1644		EPA1-26-A1F	AR1242 1F	009	0701		
	1721		EPA1-28-A1F	AR1248 1F	010	0801		
	1751		EPA1-30-A1F	AR1254 1F	011	0901		
	1834		EPA1-32-A1F	TOXAPH 1F	012	1001		
	1910		EPA1-11-A1F	Ind AL 1F	013	1101		
	2059		EPA1-15-A1F	Ind BL 1F	016	1201		
	2210		EPA1-12-A1F	Ind AM 1F	018	1301		
	2335		EPA1-16-A1F	Ind BM 1F	020	1401		
04/15/96	0002		EPA1-13-A1F	Ind AH 1F	021	1501		
	0151		EPA1-17-A1F	Ind BH 1F	024	1601		
	0304		EPA1-7-A1F	PI Blk 1F	026	1701		
	0417		EPA1-9-A2F	Pem 2F	028	1801		
	0529		032196D	PBlk1	030	1901		
	0604		15233.01	X5966	031			
	0642		152330Z	X5970	032			
	0757		EPA1-7-A2F	PI Blk 2F	034			
	0905		EPA1-12-A2F	Ind AM 2F	036			
	1021		EPA1-16-A2F	Ind BM 2F	038			

Verification Signature
Date 4/15/96

0054

Analyst Signature
Date 4/16/96

000400

RTX 35

PESTICIDE - PCB
QC RUN LOG

INSTRUMENT 3F/3R
INJ. VOL. 2 uL
METHOD SUBDIRECTORY 3041596
RTX-35

AATSLA

DATE	TIME 3F	TIME 3R	AATS I.D.	EPA I.D.	DATA FILE NAME	COMMENTS	INT.
04/15/96	1427		032896 F	PBLK1	002F0101		
	1503		032896 G	PBLK1	003		
	1538		033096 G	PBLK2	004		
	1614		033096 H	PBLK2	005		
	1649		15410.01	FER43	006		
	1725		15410.02MS	FER43MS	007		
	1800		15410.03MSD	FER43MSD	008		
	1836		15410.04	FER57	009		
	1911		15410.05	FER58	010		
	1947		EPA1-7-A3F	PIBLK3F	011		
	2058		EPA1-9-A3F	PEM3F	013		
	~~2209~~ 1009	04/16/96	15410.06	FER61	015		
	2244		15410.07	FER62	016		
	2320		15411.01	FES00	017		
	2355		15411.02	FER94	018		
04/16/96	0031		15411.03	FER95	019		
	0106		15411.04	FER97	020		
	0142		15411.05	FER98	021		
	0217		15411.06	FER99	022		
	0253		15411.07MS	FER99MS	023		
	0328		15411.08 MSD	FER99MSD	024		
	0404		GPC BLK 041396	—	025		
	0515		EPA1-7-A4F	PIBLK4F	027		
	0550		EPA1-12-A3F	INDAM3F	028		
	0702		EPA1-16-A3F	INDBM3F	030		

Bruce Henderson
Verification Signature

4/20/96
Date

0055

Deborah L Pike
Analyst Signature

4/19/96
Date

000401

DB-5 Column

PESTICIDE - PCB
GC RUN LOG

INSTRUMENT 3F/3R
INJ. VOL. 2 uL
METHOD SUBDIRECTORY (30423(AL)
and (3042496)

AATSLA

DATE	TIME 3F	TIME 3R	AATS I.D.	EPA I.D.	DATA FILE NAME	COMMENTS	INT.
04/23/96	1241		EPA1-8-AF1	RESCF1	002F0101		
	1321		-9-	PEM	003F0201		
	1439		-20-	AR1660	005F0301		
	1519		-22-	AR1221	006F0401		
	1558		-24-	AR1232	007F0501		
	1638		-26-	AR1242	008F0601		
	1718		-28-	AR1248	009F0701		
	1757		-30-	AR1254	010F0801		
	1837		-32-	TOXAPH	011F0901		
	1916		-11-	INDAL	012F1001		
	2035		-15-	INDBL	014F1101		
	2233		-12-	INDAM	017F1201		
	2312		-16-	INDBM	018F1301		
04/24/96	0031		-13-	INDAH	020F1401		
	0150		-17-	INDBH	022F1501		
	0348		-7-	PIBLK	025F1601		
	0427		-9-AF2	PEM F2	026F1701		
			SUBDIRECTORY	3042496			
04/24/96	0858		032896G	PBLK1	004F0101		
	0938		15410.01	FER43	005		
	1017		15410.02 MS	FER43MS	006		
	1057		15410.03 MSD	FER43MSD	007		
	1136		15410.04	FER57	008		
	1216		15410.05	FER58	009		
	1255		15410.06	FER61	010		
	1334		15410.07	FER62	011		
	1414		EPA1-7-AF2	PIBLKF2	012F0201		
	1640		EPA1-12-AF2	INDAMF2	015F0301	Charged gas	
	1719		EPA1-16-AF2	INDBM F2	016F0401		

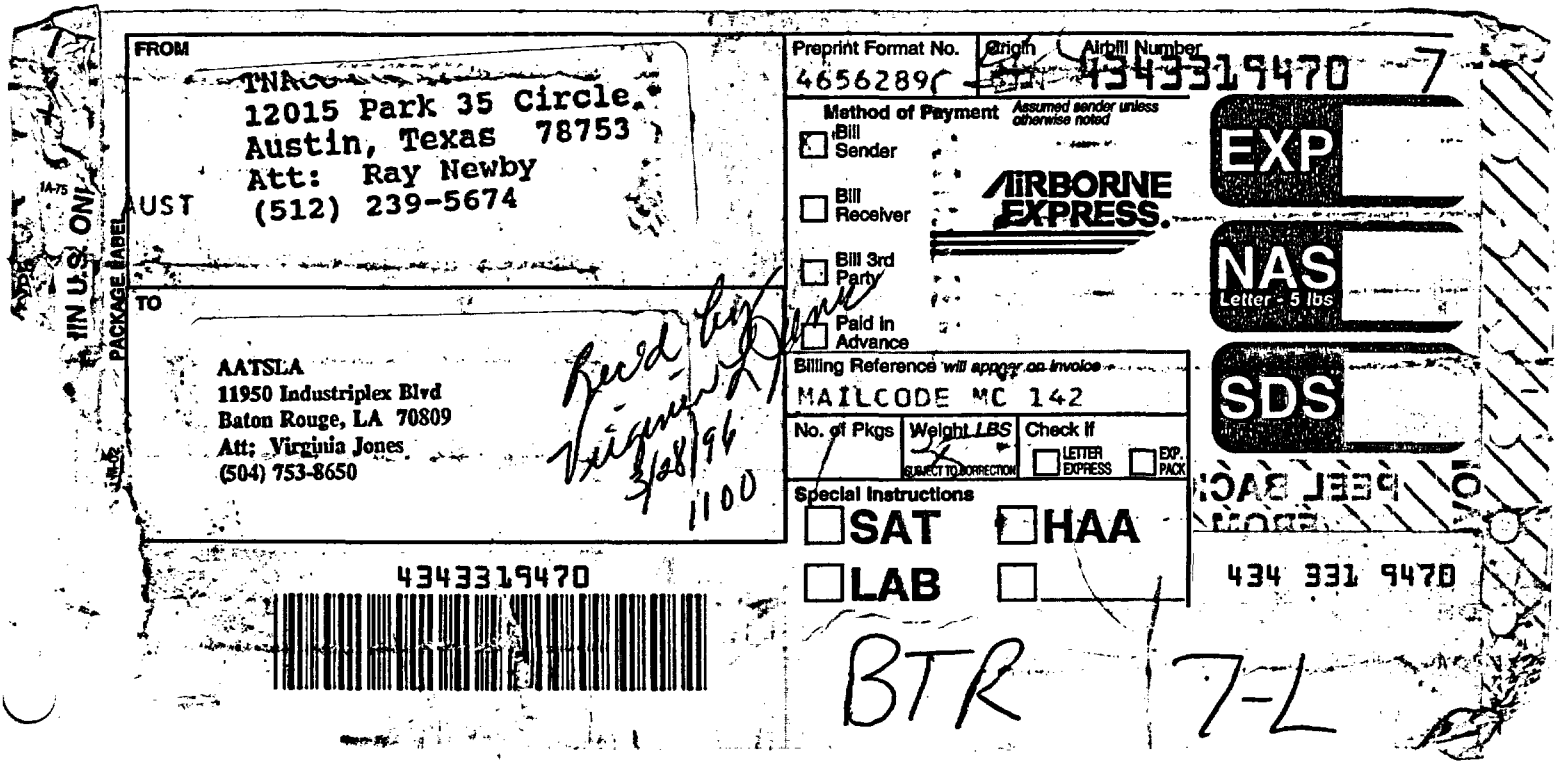
Verification Signature: [signature]

Date: 4/25/96

cc58

Analyst Signature: [signature]

Date: 4/25/96



FROM
TNRCC
12015 Park 35 Circle
Austin, Texas 78753
Att: Ray Newby
AUST (512) 239-5674

TO
AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
Att: Virginia Jones
(504) 753-8650

Received by Virginia Jones 3/28/96 1100

4343319470

Preprint Format No. 4656289C | Origin | Airbill Number 4343319470 7

Method of Payment (Assumed sender unless otherwise noted)
☒ Bill Sender
☐ Bill Receiver
☐ Bill 3rd Party
☐ Paid in Advance

AIRBORNE EXPRESS.

EXP
NAS Letter - 5 lbs
SDS

Billing Reference will appear on invoice
MAILCODE MC 142

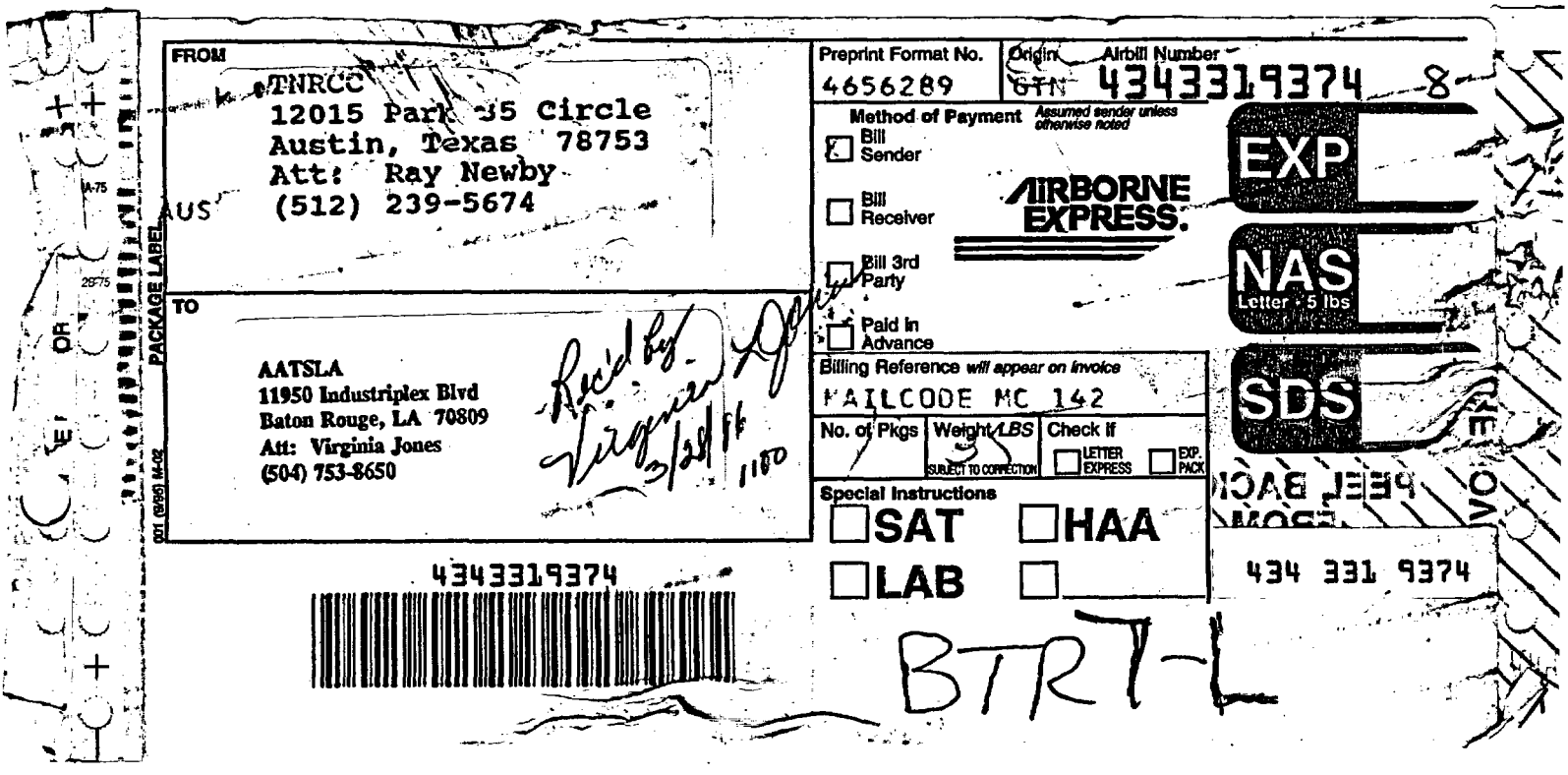
No. of Pkgs	Weight LBS (SUBJECT TO CORRECTION)	Check If: LETTER EXPRESS / EXP. PACK
1	3	

Special Instructions
☐ SAT ☒ HAA
☐ LAB ☐

434 331 9470

BTR 7-L

IN U.S. ONLY
PACKAGE LABEL



FROM
TNRCC
12015 Park 35 Circle
Austin, Texas 78753
Att: Ray Newby
AUS (512) 239-5674

TO
AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
Att: Virginia Jones
(504) 753-8650

Rec'd by Virginia Jones 3/28/96 1100

4343319374

Preprint Format No. 4656289
Origin GTN
Airbill Number 4343319374 8

Method of Payment (Assumed sender unless otherwise noted)
☒ Bill Sender
☐ Bill Receiver
☐ Bill 3rd Party
☐ Paid In Advance

AIRBORNE EXPRESS.

EXP
NAS Letter - 5 lbs
SDS

Billing Reference will appear on invoice
MAILCODE MC 142

No. of Pkgs | Weight LBS (SUBJECT TO CORRECTION) | Check if ☐ LETTER EXPRESS ☐ EXP. PACK

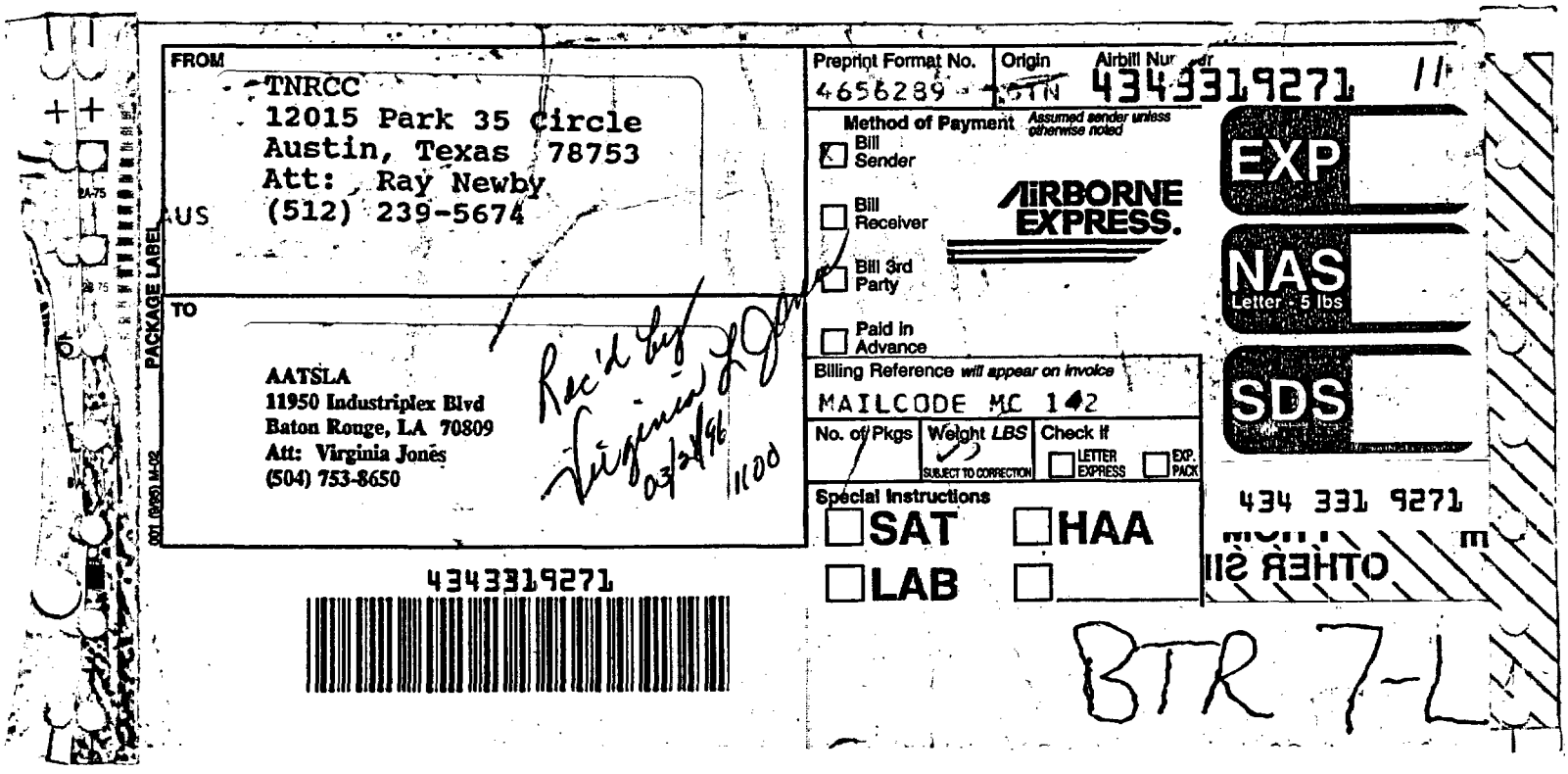
Special Instructions
☐ SAT ☐ HAA
☐ LAB ☐

434 331 9374

BTRT-L

PACKAGE LABEL 201 (8/95) M-02

000404



FROM

TNRCC
12015 Park 35 Circle
Austin, Texas 78753
Att: Ray Newby
(512) 239-5674

AUS

TO

AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
Att: Virginia Jones
(504) 753-8650

Rec'd by Virginia L Jones 03/28/96 1100

PACKAGE LABEL

001 (9/95) M-02

4343319271

Preprint Format No. 4656289

Origin STN

Airbill Number 4343319271

Method of Payment Assumed sender unless otherwise noted

- [x] Bill Sender
- [ ] Bill Receiver
- [ ] Bill 3rd Party
- [ ] Paid in Advance

AIRBORNE EXPRESS.

EXP

NAS Letter - 5 lbs

SDS

Billing Reference will appear on invoice

MAILCODE MC 142

No. of Pkgs

Weight LBS SUBJECT TO CORRECTION

Check if LETTER EXPRESS EXP. PACK

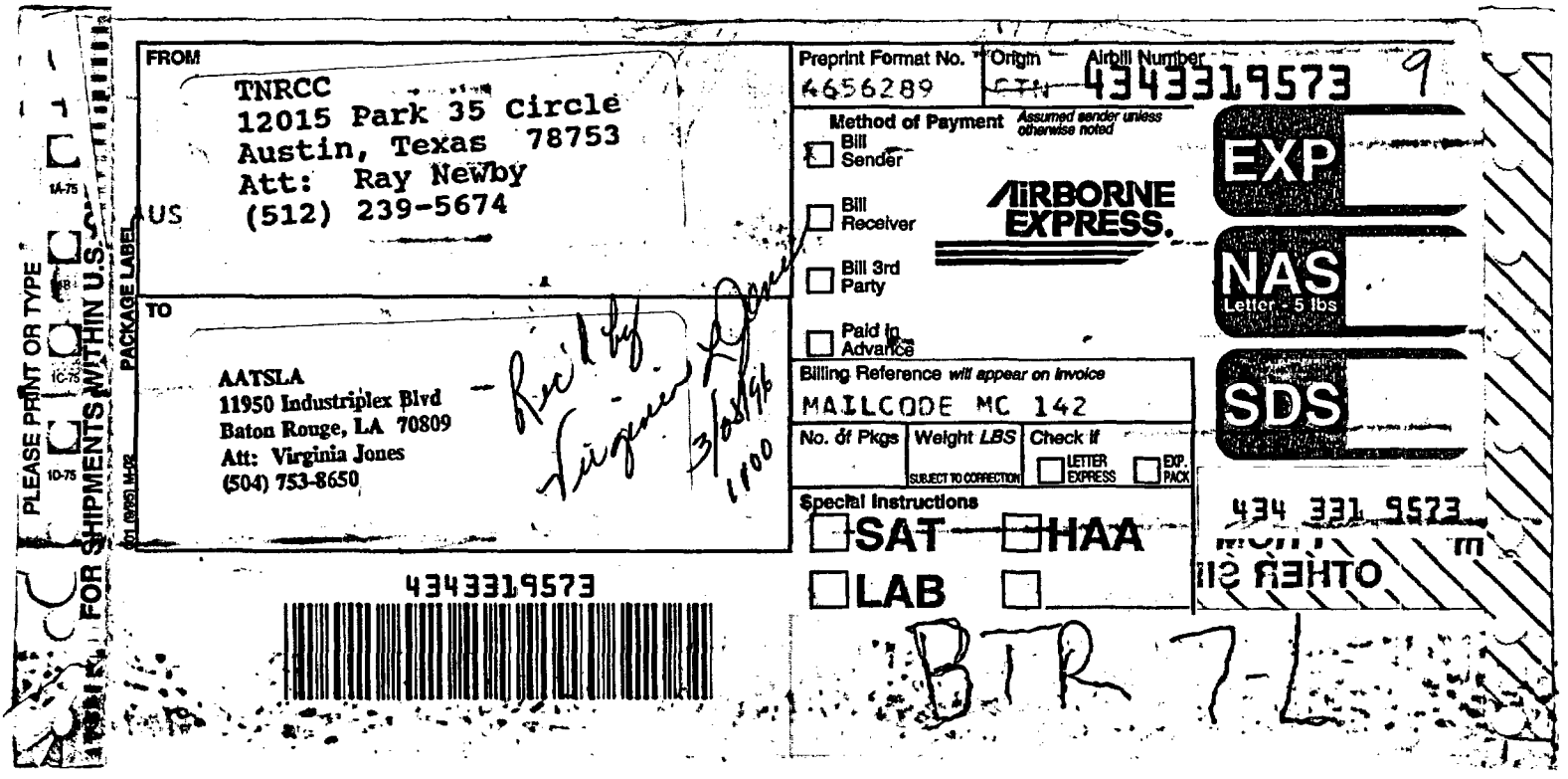
Special Instructions

- [ ] SAT
- [ ] HAA
- [ ] LAB
- [ ]

434 331 9271

BTR 7-L

000405



PLEASE PRINT OR TYPE
FOR SHIPMENTS WITHIN U.S.
PACKAGE LABEL

FROM
TNRCC
12015 Park 35 Circle
Austin, Texas 78753
Att: Ray Newby
US (512) 239-5674

TO
AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
Att: Virginia Jones
(504) 753-8650

Rec'd by Virginia Jones 3/28/96 1100

4343319573

Preprint Format No. 4656289
Origin CTN
Airbill Number 4343319573 9

Method of Payment *Assumed sender unless otherwise noted*
☒ Bill Sender
☐ Bill Receiver
☐ Bill 3rd Party
☐ Paid in Advance

AIRBORNE EXPRESS.

EXP
NAS Letter - 5 lbs
SDS

Billing Reference *will appear on invoice*
MAILCODE MC 142

No. of Pkgs	Weight LBS (SUBJECT TO CORRECTION)	Check if ☐ LETTER EXPRESS ☐ EXP. PACK

Special Instructions
☐ SAT ☐ HAA
☐ LAB ☐

434 331 9573
OTHER SIDE

BTR 7-L

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

Lab Name: American Analytical & Technical Services, Inc. Contract No.: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ - ___

Full Sample Analysis Price in Contract: $ 612.00

SDG No./First Sample in SDG: FER43 Sample Receipt Date: 03/28/96 (MM/DD/YY)
(Lowest EPA Sample Number in first shipment of samples received under SDG)

Last Sample in SDG: FES98 Sample Receipt Date: 03/28/96 (MM/DD/YY)
(Highest EPA Sample Number in last shipment of samples received under SDG)

EPA Sample Numbers in the SDG (listed in alphanumeric order):

1.	FER43	11.	
2.	FER57	12.	
3.	FER58	13.	
4.	FER61	14.	
5.	FER62	15.	
6.	FES98	16.	
7.		17.	
8.		18.	
9.		19.	
10.		20.	

NOTE: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

Susan Stewart
Sample Custodian

April 3, 1996
Date

50

7

EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H2SO4
   5. Ice only
   6. Other (Specify in Column D)
   N. Not preserved

2. Region No.: 6
Sampling Co.: TNRCC
4. Date Shipped: 3/27/96
Carrier: Airborne
6. Date Received: 3/28/96
Received by: Susan Stevens

Sampler (Name): Johnny Kennedy
Airbill Number: 434331 9470
Laboratory Contract Number:
Unit Price:

Sampler Signature:
5. Ship To: AATSLA
11950 Industriplex Blvd.
Baton Rouge, LA 70809
7. Transfer to:
Date Received:

3/ Purpose: Lead — [X] SF [ ] PRP [ ] ST [ ] FED
Early Action — [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI
Long-Term Action — [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

Received by:

ATTN: Virginia Jones
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only: ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER43	2	L	G	5		X	X		6-020570	GW-20	03/26/96 1516	MFGH18	JK			
FER43	2	L	G	5		X	X		6-020572	GW-20	03/26/96 1516	MFGH18	JK			

Shipment for Case Complete? (Y/N): N
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: FER43
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	03/27/96 1400				
[signature]					
		Received for Laboratory by: (Signature) [signature]	Date / Time: 3/28/96 1100	Remarks: Is custody seal intact? Y/N/none	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to S[illegible]

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITI[illegible]

SDG FER.

A21-012-4 REV. 3/93

360330

000407

4c

8

EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

000408

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 6 | Sampling Co.: TNRCC

4. Date Shipped: 3/27/96 | Carrier: Airborne

6. Date Received -- Received by: 3/28/96 Allan Stewart

Sampler (Name): Johnny Kennedy

Airbill Number: 4343319374

Laboratory Contract Number | Unit Price

Sampler Signature:

5. Ship To: AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
ATTN: Virginia Jones

7. Transfer to: | Date Received

Received by

Contract Number | Price

3. Purpose
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER58	Z	L	G	5		X	X		6-020648	GW-17	03/26/96 1622	MFGH09	JK			
FER57	Z	L	G	5		X	X		6-020653	GW-18	03/26/96 1549	MFGH08	AP			

Shipment for Case Complete? (Y/N): N

Page: 1 of 1

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures: Abigail Powell

Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	03/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		[signature]	3/28/96 1100		

DISTRIBUTION:
Blue - Region Copy
White - Lab Copy for Return to Region
Pink - SMO Copy
Yellow - Lab Copy for Return to [illegible] SDG FE[illegible]

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

360[illegible]53

6C

11

000409

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: 6
Sampling Co.: TNRCC
Sampler (Name): Abbi Power
Sampler Signature: Abbi Power

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 3/27/96
Carrier: Airborne
Airbill Number: 4343319271

5. Ship To: AATSLA
11950 Industriplex Blvd.
Baton Rouge, LA 70809
ATTN: Virginia Jones

6. Date Received – Received by: 3/28/96 [signature]
Laboratory Contract Number:
Unit Price:

7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER62	2	L	G	5		X	X		6-020658	GW-19	03/26/96/1648	MFGH07	AP			
FER61	2	L	G	5		X	X		6-020663	GW-21	03/26/96/1648	MFGH06	AP			

GH 3/26/9

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(N)	1 of 1			

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	3/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature]	Date / Time 3/28/96 1100	Remarks Is custody seal intact? Y/N/none	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to S[illegible]; SDG F[illegible]

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITI[illegible]

A21-012-4 REV. 3/93

360[illegible]2

68

7

000410

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (If applicable):

Case No.: 24517

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 6
Sampling Co.: TNRCC
Sampler (Name): JOHNNY KENNEDY
Sampler Signature: [signature]

3. Purpose
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 3/27/96
Carrier: AIRBORNE EXPRESS
Airbill Number: 4343319573

5. Ship To
AATSLA
11950 INDUSTRIPLEX BLVD
BATON ROUGE, LA 70809
ATTN: VIRGINIA JONES

6. Date Received – Received by: 3/28/96 [signature]
Laboratory Contract Number:
Unit Price:
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER43	2	L	G	5		X	X		6-020571	GW-20	3/26/96 15:16	MFGH 18	J.K			
FER43	2	L	G	5	X				6-020564-69	GW-20	3/26/96 15:16	MFGH 18	J.K			
FER58	2	L	G	5	X				6-020646-47	GW-17	3/26/96 16:22	MFGH 09	J.K			
FER57	2	L	G	5	X				6-020651-52	GW-18	3/26/96 15:49	MFGH 08	A.P.			
FER62	2	L	G	5	X				6-020656-57	GW-19	3/26/96 16:48	MFGH 07	A.P			
FER61	2	L	G	5	X				6-020661-62	GW-21	3/26/96 16:48	MFGH 06	A.P			
FES98	2	L	G	5	X				6-020599-600	FB-02	3/26/96 17:14	—	R.N.			

Shipment for Case Complete? (Y/N): N
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: FER43
Additional Sampler Signatures: Abigail Perez [signature]
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	3/27/96 14:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none
		[signature]	3/28/96 1100	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to S

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITI

SDG FER43
SDG Final Sample

360[illegible]49

A21-012-4 REV. 3/93

000411

All logbook pages are copies
Originals retained in RD
Bound logbooks at 043096
AATSLA
Pages 000411 To 000411

SAMPLE LOG-IN SHEET

Lab Name: American Analytical & Technical Services, Inc.	Page 1 of 1
Received By (Print Name): Susan Stewart	Log-in Date 3/28/96
Received By (Signature): Susan Stewart	
Case Number 24517	Sample Delivery Group No. FER 43 — SAS Number —

Remarks:

		EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	FER 43	6-026579 6-026572 6020571 6026564-69	15410.01	Intact
2. Custody Seal Nos.:	N/A	43-MS		.02	
3. Chain-of-Custody Records	Present/Absent*	43-MSD		.03	
4. Traffic Reports or Packing List	Present/Absent*	57	6020653 6020651-52	.04	
5. Airbill	Airbill/Sticker Present/Absent*	58	6020648 6020641-47	.05	
6. Airbill No. Airborne	4343319271, 4343319374 4343319470, 4343319593	61	6020663, 6020661-62	.06	
7. Sample Tags	Present/Absent*	62	6020658 6020656-57	.07	
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody	FES 98	6-020649-60	.08	
8. Sample Condition: #7-5°C, #8-4°C, #9-6°C, #11-6°C	Intact/Broken*/Leaking				
9. Does information on custody records, traffic reports, and sample tags agree?	Yes/No*				
10. Date Received at Lab:	3/28/96				
11. Time Received:	1100			SV	

Sample Transfer

Fraction:	Fraction:
Area #:	Area #:
By:	By:
On:	On:

* Contact SMO and attach record of resolution

Received By:	Logbook No:
Date:	Logbook Page No:

AMERICAN ANALYTICAL & TECHNICAL SERVICES 000412 Date: 03/28/96
11950 Industriplex Blvd. Episode: 15410
Baton Rouge, LA 70809 Client: USEPA
Project: CASE #24517

SAMPLE LOG-IN RECORD

SAMPLE #	DATE IN	DESCRIPTION	SDG	MA	NC	TEST	PRI	DUE	CONTAINER	DESCRIPTION	RESULTS	ANALYST	DATE/TIME
15410.01	03/28/96	FER43	FER43	W	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15410.02	03/28/96	FER43MS	FER43	W	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			
10.03	03/28/96	FER43MSD	FER43	W	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15410.04	03/28/96	FER57	FER43	W	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15410.05	03/28/96	FER58	FER43	W	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			

SAMPLE #	DATE IN	DESCRIPTION	SDG	MA	NC	TEST	PRI	DUE	CONTAINER	DESCRIPTION	RESULTS	ANALYST	DATE/TIME
15410.05 (cont)						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15410.06	03/28/96	FER61 ✓	FER43	W	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15410.07	03/28/96	FER62 ✓	FER43	W	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15410.08	03/28/96	FES98 ✓	FER43	W	2	MS317	4	04/17/96	AB	VOA-CLP OLM03.1			

Total samples = 8

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In Reference to Case No(s):
24517

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 03/28/96

Laboratory Name: AATSLA
Lab Contact: Virginia L. Jones

~~Region~~: CLASS
Regional Contact: Jonathan Rude / Carol Shaffer

Call Initiated by: X Laboratory _____ Region

In reference to data for the following sample number(s):

Summary of Questions/Issues Discussed:

CLPAS SHIPPING form indicated that a total of 5 LW for BNA/PES were to be received. The laboratory actually received 5 LW for VOA/BNA/PES plus 1 LW for VOA only. The chain-of-custodies indicate that the case is not complete.

Summary of Resolution:
CLASS will update their information.

Virginia L Jones
Signature

4/3/96
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

CLPAS Scheduling Notification Form

Please contact CAROL *to confirm receipt of this fax*

Laboratory: AATSLA (504)753-8650 **Contact Person:** VIRGINIA JONES **Week Of:** 03/25/96

Reg.	Contract #	Cost Lot-DO #	Case#	Samples Scheduled	Coordinator	Comments
VI	68-D5-0023	A 2	24517	15 LS VOA/BNA/PES	Jonathan	35 day tat!!
VI	68-D5-0023	A 2	24517	5 LW VOA/BNA/PES	Jonathan	35 day tat!!
VI	68-D5-0023	A 2	24517	1 LW VOA	Jonathan	35 day tat!!

MATRIX: LE=Leachate; LW=Low Conc. Water; LS=Low Conc. Soil; MS=Medium Conc. Soil; LD=Low Sediment; SW=Surface Water; AR=Air

ANALYSIS: FTCL=Full Target Compound List (Full Organics: VOA, BNA, PEST/PCB); TMCN=Target Analyte List (Metals and Cyanide); DM=Dissolved Metals; DDT=Dioxin

COORDINATOR:	REGIONS	TELEPHONE
Carol Shaeffer	3, 4, 8	(703) 519-1461
Roger Nowakowski:	1, 5, 9	(703) 519-1174
Jonathan Rude:	2, 6, 7, 10	(703) 519-1471

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*** * * D5-XXXX contracts must invoice with the appropriate "DO #" * * ***

*****Correct Delivery Order numbers for each case have been listed above, next to the Cost Lot. PLEASE INVOICE ACCORDINGLY!*****

When sending data packages to CLASS, Please direct them to the "CLASS MAILROOM" and not specific DynCorp personnel.

VIRGINIA JONES

CLPAS SHIPPING

TO: AATSLA

DATE: 03/31/96

FROM: RAS COORDINATORS

Case No	Coordinator	Region	Shipping Date	Airbill Number	Samples Shipped	Ship info called in by sampler complete? Y/N	Does lab TR match? Y/N
24517	Jonathan	VI	03/28/96	4343319175	9 LS VOA Airborne Express Airbill!!!	Y	y
24517	Jonathan	VI	03/28/96	4343319072	9 LS BNA/PES Airborne Express Airbill!!!	Y	y

MATRIX: LW = Low Conc. Water LS = Low Conc. Soil MS = Medium Conc. Soil

ANALYSIS: FTCL = Full Target Compound List; VOA; BNA; PEST/PCB (P/P)

TMCN = Total Metals and Cyanide; TM = Total Metals; CN = Cyanide; DM = Dissolved Metals

Lab should determine whether TR received matches shipping info. provided by CLASS and should call appropriate coordinator if there is a problem with the above information.

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BOOKMARK

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

MEMORANDUM

Date: 5-21-1996

Subject: Contract Laboratory Program Data Review

From: for Melvin L. Ritter, ESAT RPO, 6MD-HC M. Elfeky

To: B. Canellas , 6SF-RA

Site: OLD BRAZOS FORGE

Case#: 24517

SDG#: FE-R94

The EPA Region 6 Houston Branch ESAT data validation team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review and assessment report for this case.

The data package was found to be:

( ) Acceptable: No major problems with data package.

(X) Provisional: Use of data requires caution.
Data is acceptable for Regional use. Problems are noted in the review report.

( ) Unacceptable: Some or all of data should not be used.
Problems are noted in the review report.

Questions regarding the data review report can be addressed to me.

Attachments

cc: R. Flores, Region 6 CLP/TPO
M. El-feky, Region 6 Data Coordinator
Files (2)

Recycled/Recyclable
Printed with Soy/Canola Ink on paper that contains at least 50% recycled fiber

USEPA REGION: VI

ORGANIC REGIONAL ACCEPTANCE/REJECTION/REDUCED VALUE RECOMMENDATION FORM

LAB CODE: AATSLA	CASE NO.: 24517	SDG NO.: FER94
SITE NAME: OLD BRAZOS FORGE		NUMBER OF SAMPLES: 18

FORM DUE DATE: 06/24/96

SDG MAILDATE: 05/09/96

PART I. DATA ACCEPTANCE OR REJECTION

INSTRUCTIONS: EPA REGIONS MUST ACCEPT OR REJECT DATA WITHIN 30 DAYS. IF DATA ARE BEING REJECTED, THIS FORM MUST BE ACCOMPANIED BY 1.) A SIGNED MEMO FROM THE REGIONAL OFFICIAL DESCRIBING THE CONTRACTUAL REASONS FOR REJECTION. ATTACH ALL RELATED DOCUMENTS (DATA REVIEWS,TELEPHONE LOGS, ETC.), 2.) ALL REJECTED DATA.

A. FULL DATA ACCEPTANCE OR REJECTION
CHECK ONE OF THE FOLLOWING IF YOU FULLY ACCEPT OR FULLY REJECT ALL SAMPLES IN THIS SDG.

✓ ACCEPT ALL ____ REJECT ALL

B. REJECTION OF ALL SAMPLES FOR A PARTICULAR FRACTION
CHECK ONE OF THE FOLLOWING IF YOU FULLY REJECT ALL SAMPLES IN A PARTICULAR FRACTION IN THIS SDG. ALL FRACTIONS NOT MARKED AS REJECTED ARE ACCEPTED.

REJECT ALL: ____ VOA ____ BNA ____ PEST

C. REJECTION AT THE SAMPLE AND FRACTIONAL LEVEL
CHECK THE FOLLOWING TO REJECT SAMPLES AT THE SAMPLE/FRACTIONAL LEVEL AND COMPLETE THE REVERSE SIDE OF THIS FORM.

____ PARTIAL ACCEPTANCE AND REJECTION BY SAMPLE/FRACTION

PART II. REDUCED VALUE

INSTRUCTIONS: REGION RECOMMENDS REDUCED VALUE AND RETAINS THE DATA. FOR A REDUCED VALUE TO BE PROCESSED, THIS FORM MUST BE ACCOMPANIED BY A SIGNED MEMO FROM THE REGIONAL OFFICIAL CITING THE CONTRACTUAL NON-COMPLIANCE; THE DOLLAR AMOUNT FOR REDUCED VALUE; AND A WRITTEN JUSTIFICATION (NARRATIVE) OF HOW SAMPLE WORTH WAS DETERMINED FOR EACH AFFECTED SAMPLE. ATTACH ALL RELATED DOCUMENTS (DATA REVIEWS, TELEPHONE LOGS, ETC.)

CHECK ONE OF THE FOLLOWING:

✓ NO REDUCED VALUE ____ REDUCED VALUE (COMPLETE REVERSE SIDE)

IDENTIFY THE SAMPLES/FRACTIONS THAT ARE RECOMMENDED FOR REDUCED VALUE ON THE REVERSE SIDE OF THIS FORM.

THIS FORM CANNOT BE PROCEESSED WITHOUT A SIGNATURE

NAME OF REGIONAL OFFICIAL: MAHMOUD ELFEKY

SIGNATURE: M. Elfeky DATE: 5-21-96

SEND THIS FORM TO: CLASS C/O DYNCORP
INVOICE PROCESSING & CALCULATION GROUP
300 NORTH LEE STREET, ALEXANDRIA, VA 22314

SEE LIST OF SAMPLES ON REVERSE SIDE

LAB CODE: AATSLA	CASE NO.: 24517	SDG NO.: FER94

"Y" INDICATES THE SAMPLE WAS ANALYZED FOR THAT FRACTION AND IS BILLABLE
"NP" INDICATES THE SAMPLE WAS ANALYZED FOR THAT FRACTION AND IS NOT BILLABLE
A BLANK CELL INDICATES THE SAMPLE WAS NOT ANALYZED

PART III. PARTIAL ACCEPTANCE AND REJECTION BY SAMPLE

ENTER AN "X" IN THE BLOCK TO THE RIGHT OF THE "Y" FOR THE FRACTION RECOMMENDED FOR REJECTION
ENTER A "D" IN THE BLOCK TO THE RIGHT OF THE "Y" FOR THE FRACTION RECOMMENDED FOR REDUCED VALUE.
ALL SAMPLES THAT ARE NOT MARKED WITH AN "X" OR A "D" ARE ACCEPTED.

	FRACTIONS ANALYZED					
SAMPLE	VOA		BNA		PES	
FER34	Y		Y		Y	
FER35	Y		Y		Y	
FER39	Y		Y		Y	
FER40	Y		Y		Y	
FER40RE	Y					
FER41	Y		Y		Y	
FER90	Y		Y		Y	
FER91	Y		Y		Y	
FER92	Y		Y		Y	
FER93	Y		Y		Y	
FER94	Y		Y		Y	
FER95	Y		Y		Y	
FER97	Y		Y		Y	
FER98	Y		Y		Y	
FER99	Y		Y		Y	
FER99MS	Y		Y		Y	
FER99MSD	Y		Y		Y	
FES00	Y		Y		Y	

LOCKHEED MARTIN ENVIRONMENTAL AND SYSTEMS TECHNOLOGY, INC.
1200 SMITH STREET, SUITE 800
HOUSTON, TX 77002

MEMORANDUM

DATE: May 15, 1996

TO: Dr. Melvin Ritter, ESAT RPO, Region VI

FROM: Dr. Tom C. H. Chiang, ESAT ETM, Region VI

SUBJECT: CLP Data Review

REF: TDF # 6-6246A
ESAT # O-1685

Attached is the data review summary for Case # 24517
SDG # FER94
Site OLD BRAZOS FORGE

COMMENTS:

I. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The data package was contractually compliant as determined by the hard copy review. CCS reported a contractual non-compliant %D for a Pest/PCB INDA analysis, but the hard copy review verified it was caused by error. The hard copy review did not confirm the outlying %RSD's reported by CCS for the Pest/PCB initial calibration.

II. TECHNICAL/USABILITY ASSESSMENT OF THE DATA PACKAGE

The total number of results reviewed was 1,875 for this data package. Less than 5 percent of the results were qualified because of technical problems. The data package is technically provisional because of the following significant technical problems:

VOA samples FE-R40 and FE-R40RE had IS responses below the QC limits.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

ORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 24517	SITE OLD BRAZOS FORGE
LABORATORY AATSLA	NO. OF SAMPLES 15
CONTRACT# 68-D5-0023	MATRIX SOIL
SDG# FER94	REVIEWER (IF NOT ESD) ESAT
SOW# RAS SOW OLM03.2	REVIEWER'S NAME CHRIS COVINGTON
ACCT# 6TFAJN43 SF# TFAUZZ	COMPLETION DATE MAY 15, 1996

SAMPLE NO.				
FE-R34	FE-R41	FE-R93	FE-R98	
FE-R35	FE-R90	FE-R94	FE-R99	
FE-R39	FE-R91	FE-R95	FE-S00	
FE-R40	FE-R92	FE-R97		

DATA ASSESSMENT SUMMARY

	VOA	BNA	PEST
1. HOLDING TIMES	O	O	O
2. GC/MS TUNE/INSTR. PERFORM.	O	O	O
3. CALIBRATIONS	O	O	O
4. BLANKS	O	O	O
5. SMC/SURROGATES	O	O	O
6. MATRIX SPIKE/DUPLICATE	O	O	O
7. OTHER QC	O	O	O
8. INTERNAL STANDARDS	M	O	N/A
9. COMPOUND ID/QUANTITATION	O	O	M
10. PERFORMANCE/COMPLETENESS	O	O	O
11. OVERALL ASSESSMENT	M	O	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS: None.

AREA OF CONCERN: VOA samples FE-R40 and FE-R40RE had poor IS performance. Pest/PCB sample FE-R90 had a result that differed by greater than 25% between the two columns.

NOTABLE PERFORMANCE: None.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 24517 **SDG** FER94 **SITE** OLD BRAZOS FORGE **LAB** AATSLA

The following is a summary of sample qualifiers used by Region 6 in reporting this CLP data:

No.	Acceptable	Provisional	Unacceptable
VOA	14	1	
BNA	15		
PEST	14	1	

COMMENTS: The case consisted of 15 soil samples for complete RAS organics analysis. The OTR/COC Record designated samples FE-R41/FE-R91 and FE-R94/FE-R98 as the field duplicate pairs and sample FE-R99 for MS/MSD analyses. The data package arrived at the Region on time for the contractual 35-day turnaround time. The laboratory performed low level analyses for the VOA and BNA soil samples.

TCL analytes reported above the CRQL's in the samples included acetone, γ-chlordane, and the laboratory contaminant bis(2-ethyl hexyl)phthalate. VOA sample FE-R40 was reanalyzed because of a low internal standard (IS) response. Results from VOA sample FE-R40RE are recommended for use because of better overall QC performance. Some data for one VOA and one Pest/PCB sample are provisional because of problems with IS response and compound quantitation.

The technical usability of all reported sample results is appropriately indicated by ESAT's final data qualifiers in the attached Data Summary Tables. An Evidence Audit was conducted for the Complete Sample Delivery Group File (CSF), and the Evidence Inventory Checklist is attached to this report.

1. Holding Times: Acceptable. All samples met the contractual holding time criteria.

2. Tuning/Performance: Acceptable. The BFB and DFTPP analyses met GC/MS tuning criteria. The sample analyses were within 12 hours of the respective BFB/DFTPP analyses. The Pest/PCB samples and calibrations were analyzed according to the method guidelines.

3. Calibrations: Acceptable. One Pest/PCB calibration verification appeared non-compliant because of a high %RSD, but the reviewer verified the outlying %D was due to a reporting error. Target compounds generally met contractual and technical criteria for all fractions. Several BNA compounds failed the

CASE 24517 **SDG** FER94 **SITE** OLD BRAZOS FORGE **LAB** AATSLA

3. Calibrations: (continued)

technical %D calibration criteria, but results were not qualified because they were below the CRQL's.

4. Blanks: Acceptable. The method, storage, and instrument blanks met contractual requirements. Total xylenes were reported (below the CRQL) in the VOA holding blank but were not detected in the field samples. The BNA method blanks contained the laboratory contaminant bis(2-ethylhexyl)phthalate. The reviewer "U" flagged the laboratory "B" flagged bis(2-ethylhexyl)phthalate sample results because the concentrations were less than 10X the associated method blank concentrations.

Field Blank/Rinsate: The field blank and rinsate samples associated with this case were submitted with case 24501 SDG FEM97. The field blank, sample FE-M97, contained α-chlordane, acetone, and di-n-butylphthalate. The rinsate, sample FE-M98, contained 2-butanone, acetone, diethylphthalate, butylbenzylphthalate, and bis(2-ethyl hexyl)phthalate.

Among the listed field contaminants, only acetone and bis(2-ethylhexyl)phthalate appeared in the associated samples. Since the reviewer already flagged the bis(2-ethylhexyl)phthalate results for laboratory contamination, further qualification for field contamination is unnecessary. The reviewer could not assess the effect of field contamination on the acetone sample results because of differences in matrix type and reporting unit. The user is advised to use all positive acetone results with caution because of potential field contamination.

5. System Monitoring Compounds (SMC)/Surrogates: Acceptable. The SMC and surrogate recoveries met QC criteria for all samples.

6. Matrix Spike/Matrix Spike Duplicate: Acceptable. The MS/MSD analyses met %REC's and %RPD's requirements.

7. Other QC:

Field Duplicate: Acceptable. The field duplicate results were consistent.

COMMENTS/CLARIFICATIONS
CONTINUATION PAGE

CASE 24517 **SDG** FER94 **SITE** OLD BRAZOS FORGE **LAB** AATSLA

8. Internal Standards: Provisional. The internal standard areas and retention times were within the QC limits for VOA and BNA samples with the exception noted below.

VOA Sample FE-R40 and its reanalysis had IS responses below the QC limits. The quantitation limits associated with IS3 for sample FE-R40RE are estimated (J) and low biased because of a low IS response.

9. Compound Identity/Quantitation: Provisional. The TCL analytes reported above the CRQL's in the samples included acetone, γ-chlordane, and the laboratory contaminant bis(2-ethyl hexyl)phthalate. Compound identification and quantitation met contractual guidelines for all VOA and BNA samples. GC/MS confirmation was not required for the positive pesticide/PCB reported result. The α-chlordane result for sample FE-R90 is estimated because the two column quantitation results differed by greater than 25%.

10. Performance/Completeness: Acceptable. The data package was complete with minor deficiencies. The laboratory was contacted for correction and resubmission (see attached FAX Record Log).

11. Overall Assessment: Data are acceptable for 14 VOA, 15 BNA and 14 Pest/PCB samples.

VOA Some data are provisional for sample FE-R40RE because of poor internal standard performance.

Pest/PCB One result is provisional for sample FE-R90 because of a compound quantitation problem.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

B This result may be high biased because of laboratory/field contamination. The reported concentration is above 5X or 10X the concentration reported in the method/field blank.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

VOLATILES	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG
EPA SAMPLE NUMBER:	FER34	FER35	FER39	FER40	FER40RE	FER41	FER90
Chloromethane	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Bromomethane	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Vinyl chloride	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Chloroethane	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Methylene chloride	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Acetone	13 U	14 U	12 U	14 U*	14	12 U	15 U
Carbon disulfide	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
1,1-Dichloroethene	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
1,1-Dichloroethane	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
1,2-Dichloroethene (total)	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Chloroform	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
1,2-Dichloroethane	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
2-Butanone	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
1,1,1-Trichloroethane	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Carbon tetrachloride	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Bromodichloromethane	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
1,2-Dichloropropane	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
cis-1,3-Dichloropropene	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Trichloroethene	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Dibromochloromethane	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
1,1,2-Trichloroethane	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Benzene	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
trans-1,3-Dichloropropene	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
Bromoform	13 U	14 U	12 U	14 U*	14 U	12 U	15 U
4-Methyl-2-pentanone	13 U	14 U	12 U	14 U*	14 UJv	12 U	15 U
2-Hexanone	13 U	14 U	12 U	14 U*	14 UJv	12 U	15 U
Tetrachloroethene	13 U	14 U	12 U	14 U*	14 UJv	12 U	15 U
1,1,2,2-Tetrachloroethane	13 U	14 U	12 U	14 U*	14 UJv	12 U	15 U
Toluene	13 U	14 U	12 U	14 U*	14 UJv	3 J	15 U
Chlorobenzene	13 U	14 U	12 U	14 U*	14 UJv	12 U	15 U
Ethylbenzene	13 U	14 U	12 U	14 U*	14 UJv	12 U	15 U
Styrene	13 U	14 U	12 U	14 U*	14 UJv	12 U	15 U
Xylenes (total)	13 U	14 U	12 U	14 U*	14 UJv	12 U	15 U
Sample wt (g):	5	5	5	5	5	5	5
%Moisture:	25	26	18	26	26	14	32
Dilution Factor:	1	1	1	1	1	1	1
Level:	LOW	LOW	LOW	LOW	LOW	LOW	LOW
Number of TIC's:	0	0	0	1	0	0	0

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

VOLATILES	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG
EPA SAMPLE NUMBER:	FER91	FER92	FER93	FER94	FER95	FER97	FER98
Chloromethane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Bromomethane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Vinyl chloride	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Chloroethane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Methylene chloride	12 U	12 U	12 U	12 U	4 J	12 U	12 U
Acetone	12 U	12 U	12 U	12 U	6 J	12 U	12 U
Carbon disulfide	12 U	12 U	12 U	12 U	12 U	12 U	12 U
1,1-Dichloroethene	12 U	12 U	12 U	12 U	12 U	12 U	12 U
1,1-Dichloroethane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
1,2-Dichloroethene (total)	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Chloroform	12 U	12 U	12 U	12 U	12 U	12 U	12 U
1,2-Dichloroethane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
2-Butanone	12 U	12 U	12 U	12 U	12 U	12 U	12 U
1,1,1-Trichloroethane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Carbon tetrachloride	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Bromodichloromethane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
1,2-Dichloropropane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
cis-1,3-Dichloropropene	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Trichloroethene	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Dibromochloromethane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
1,1,2-Trichloroethane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Benzene	12 U	12 U	12 U	12 U	12 U	12 U	12 U
trans-1,3-Dichloropropene	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Bromoform	12 U	12 U	12 U	12 U	12 U	12 U	12 U
4-Methyl-2-pentanone	12 U	12 U	12 U	12 U	12 U	12 U	12 U
2-Hexanone	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Tetrachloroethene	12 U	12 U	12 U	12 U	12 U	12 U	12 U
1,1,2,2-Tetrachloroethane	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Toluene	12 U	6 J	12 U	12 U	12 U	12 U	12 U
Chlorobenzene	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Ethylbenzene	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Styrene	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Xylenes (total)	12 U	12 U	12 U	12 U	12 U	12 U	12 U
Sample wt (g):	5	5	5	5	5	5	5
%Moisture:	14	18	20	14	14	16	15
Dilution Factor:	1	1	1	1	1	1	1
Level:	LOW	LOW	LOW	LOW	LOW	LOW	LOW
Number of TIC's:	0	0	0	0	8	0	0

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

VOLATILES	FLAG	FLAG
EPA SAMPLE NUMBER:	FER99	FES00
Chloromethane	12 U	13 U
Bromomethane	12 U	13 U
Vinyl chloride	12 U	13 U
Chloroethane	12 U	13 U
Methylene chloride	12 U	13 U
Acetone	12 U	25
Carbon disulfide	12 U	13 U
1,1-Dichloroethene	12 U	13 U
1,1-Dichloroethane	12 U	13 U
1,2-Dichloroethene (total)	12 U	13 U
Chloroform	12 U	13 U
1,2-Dichloroethane	12 U	13 U
2-Butanone	12 U	13 U
1,1,1-Trichloroethane	12 U	13 U
Carbon tetrachloride	12 U	13 U
Bromodichloromethane	12 U	13 U
1,2-Dichloropropane	12 U	13 U
cis-1,3-Dichloropropene	12 U	13 U
Trichloroethene	12 U	13 U
Dibromochloromethane	12 U	13 U
1,1,2-Trichloroethane	12 U	13 U
Benzene	12 U	13 U
trans-1,3-Dichloropropene	12 U	13 U
Bromoform	12 U	13 U
4-Methyl-2-pentanone	12 U	13 U
2-Hexanone	12 U	13 U
Tetrachloroethene	12 U	13 U
1,1,2,2-Tetrachloroethane	12 U	13 U
Toluene	12 U	13 U
Chlorobenzene	12 U	13 U
Ethylbenzene	12 U	13 U
Styrene	12 U	13 U
Xylenes (total)	12 U	13 U
Sample wt (g):	5	5
%Moisture:	14	25
Dilution Factor:	1	1
Level:	LOW	LOW
Number of TIC's:	0	0

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

SEMIVOLATILES	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG
EPA SAMPLE NUMBER:	FER34	FER35	FER39	FER40	FER41	FER90	FER91
Phenol	440 U	450 U	400 U	450 U	380 U	490 U	380 U
bis(2-Chloroethyl)ether	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2-Chlorophenol	440 U	450 U	400 U	450 U	380 U	490 U	380 U
1,3-Dichlorobenzene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
1,4-Dichlorobenzene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
1,2-Dichlorobenzene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2-Methylphenol	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2,2'-Oxybis(1-chloropropane)	440 U	450 U	400 U	450 U	380 U	490 U	380 U
4-Methylphenol	440 U	450 U	400 U	450 U	380 U	490 U	380 U
N-Nitroso-di-n-propylamine	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Hexachloroethane	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Nitrobenzene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Isophorone	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2-Nitrophenol	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2,4-Dimethylphenol	440 U	450 U	400 U	450 U	380 U	490 U	380 U
bis(2-Chloroethoxy)methane	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2,4-Dichlorophenol	440 U	450 U	400 U	450 U	380 U	490 U	380 U
1,2,4-Trichlorobenzene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Naphthalene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
4-Chloroaniline	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Hexachlorobutadiene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
4-Chloro-3-methylphenol	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2-Methylnaphthalene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Hexachlorocyclopentadiene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2,4,6-Trichlorophenol	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2,4,5-Trichlorophenol	1100 U	1100 U	1000 U	1100 U	970 U	1200 U	970 U
2-Chloronaphthalene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2-Nitroaniline	1100 U	1100 U	1000 U	1100 U	970 U	1200 U	970 U
Dimethylphthalate	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Acenaphthylene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2,6-Dinitrotoluene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
3-Nitroaniline	1100 U	1100 U	1000 U	1100 U	970 U	1200 U	970 U
Acenaphthene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2,4-Dinitrophenol	1100 U	1100 U	1000 U	1100 U	970 U	1200 U	970 U
4-Nitrophenol	1100 U	1100 U	1000 U	1100 U	970 U	1200 U	970 U
Dibenzofuran	440 U	450 U	400 U	450 U	380 U	490 U	380 U
2,4-Dinitrotoluene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Diethylphthalate	440 U	450 U	400 U	450 U	380 U	490 U	380 U
4-Chlorophenyl-phenylether	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Fluorene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
4-Nitroaniline	1100 U	1100 U	1000 U	1100 U	970 U	1200 U	970 U
4,6-Dinitro-2-methylphenol	1100 U	1100 U	1000 U	1100 U	970 U	1200 U	970 U
N-Nitrosodiphenylamine	440 U	450 U	400 U	450 U	380 U	490 U	380 U
4-Bromophenyl-phenylether	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Hexachlorobenzene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Pentachlorophenol	1100 U	1100 U	1000 U	1100 U	970 U	1200 U	970 U
Phenanthrene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Anthracene	440 U	450 U	400 U	450 U	380 U	490 U	380 U

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

SEMIVOLATILES	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG
EPA SAMPLE NUMBER:	FER34	FER35	FER39	FER40	FER41	FER90	FER91
Carbazole	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Di-n-butylphthalate	440 U	450 U	400 U	97 J	380 U	86 J	380 U
Fluoranthene	440 U	450 U	400 U	200 J	380 U	490 U	380 U
Pyrene	440 U	450 U	400 U	450 U	380 U	100 J	380 U
Butylbenzylphthalate	440 U	450 U	400 U	450 U	380 U	490 U	380 U
3,3'-Dichlorobenzidine	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Benzo(a)anthracene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Chrysene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
bis(2-Ethylhexyl)phthalate	670 U	520 U	580 U	3100 U	430 U	2000 U	540 U
Di-n-octylphthalate	440 U	450 U	400 U	450 U	380 U	2400	380 U
Benzo(b)fluoranthene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Benzo(k)fluoranthene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Benzo(a)pyrene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Indeno(1,2,3-cd)pyrene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Dibenz(a,h)anthracene	440 U	450 U	400 U	450 U	380 U	490 U	380 U
Benzo(g,h,i)perylene	440 U	450 U	400 U	450 U	380 U	150 J	380 U
Sample wt (g):	30	30	30	30	30	30	30
%Moisture:	25	26	18	26	14	32	14
Dilution Factor:	1	1	1	1	1	1	1
Level:	LOW	LOW	LOW	LOW	LOW	LOW	LOW
Number of TIC's:	19	17	15	12	6	17	7

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

SEMIVOLATILES	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG
EPA SAMPLE NUMBER:	FER92	FER93	FER94	FER95	FER97	FER98	FER99
Phenol	400 U	410 U	380 U	380 U	390 U	390 U	380 U
bis(2-Chloroethyl)ether	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2-Chlorophenol	400 U	410 U	380 U	380 U	390 U	390 U	380 U
1,3-Dichlorobenzene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
1,4-Dichlorobenzene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
1,2-Dichlorobenzene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2-Methylphenol	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2,2'-Oxybis(1-chloropropane)	400 U	410 U	380 U	380 U	390 U	390 U	380 U
4-Methylphenol	400 U	410 U	380 U	380 U	390 U	390 U	380 U
N-Nitroso-di-n-propylamine	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Hexachloroethane	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Nitrobenzene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Isophorone	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2-Nitrophenol	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2,4-Dimethylphenol	400 U	410 U	380 U	380 U	390 U	390 U	380 U
bis(2-Chloroethoxy)methane	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2,4-Dichlorophenol	400 U	410 U	380 U	380 U	390 U	390 U	380 U
1,2,4-Trichlorobenzene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Naphthalene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
4-Chloroaniline	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Hexachlorobutadiene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
4-Chloro-3-methylphenol	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2-Methylnaphthalene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Hexachlorocyclopentadiene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2,4,6-Trichlorophenol	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2,4,5-Trichlorophenol	1000 U	1000 U	970 U	970 U	990 U	980 U	970 U
2-Chloronaphthalene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2-Nitroaniline	1000 U	1000 U	970 U	970 U	990 U	980 U	970 U
Dimethylphthalate	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Acenaphthylene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2,6-Dinitrotoluene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
3-Nitroaniline	1000 U	1000 U	970 U	970 U	990 U	980 U	970 U
Acenaphthene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2,4-Dinitrophenol	1000 U	1000 U	970 U	970 U	990 U	980 U	970 U
4-Nitrophenol	1000 U	1000 U	970 U	970 U	990 U	980 U	970 U
Dibenzofuran	400 U	410 U	380 U	380 U	390 U	390 U	380 U
2,4-Dinitrotoluene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Diethylphthalate	400 U	410 U	380 U	380 U	390 U	390 U	380 U
4-Chlorophenyl-phenylether	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Fluorene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
4-Nitroaniline	1000 U	1000 U	970 U	970 U	990 U	980 U	970 U
4,6-Dinitro-2-methylphenol	1000 U	1000 U	970 U	970 U	990 U	980 U	970 U
N-Nitrosodiphenylamine	400 U	410 U	380 U	380 U	390 U	390 U	380 U
4-Bromophenyl-phenylether	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Hexachlorobenzene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Pentachlorophenol	1000 U	1000 U	970 U	970 U	990 U	980 U	970 U
Phenanthrene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Anthracene	400 U	410 U	380 U	380 U	390 U	390 U	380 U

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

SEMIVOLATILES	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG
EPA SAMPLE NUMBER:	FER92	FER93	FER94	FER95	FER97	FER98	FER99
Carbazole	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Di-n-butylphthalate	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Fluoranthene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Pyrene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Butylbenzylphthalate	400 U	410 U	380 U	380 U	390 U	390 U	380 U
3,3'-Dichlorobenzidine	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Benzo(a)anthracene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Chrysene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
bis(2-Ethylhexyl)phthalate	620 U	560 U	480 U	460 U	600 U	590 U	390 U
Di-n-octylphthalate	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Benzo(b)fluoranthene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Benzo(k)fluoranthene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Benzo(a)pyrene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Indeno(1,2,3-cd)pyrene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Dibenz(a,h)anthracene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Benzo(g,h,i)perylene	400 U	410 U	380 U	380 U	390 U	390 U	380 U
Sample wt (g):	30	30	30	30	30	30	30
%Moisture:	18	20	14	14	16	15	14
Dilution Factor:	1	1	1	1	1	1	1
Level:	LOW	LOW	LOW	LOW	LOW	LOW	LOW
Number of TIC's:	10	9	8	7	6	11	7

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

SEMIVOLATILES	FLAG
EPA SAMPLE NUMBER:	FES00
Phenol	440 U
bis(2-Chloroethyl)ether	440 U
2-Chlorophenol	440 U
1,3-Dichlorobenzene	440 U
1,4-Dichlorobenzene	440 U
1,2-Dichlorobenzene	440 U
2-Methylphenol	440 U
2,2'-Oxybis(1-chloropropane)	440 U
4-Methylphenol	440 U
N-Nitroso-di-n-propylamine	440 U
Hexachloroethane	440 U
Nitrobenzene	440 U
Isophorone	440 U
2-Nitrophenol	440 U
2,4-Dimethylphenol	440 U
bis(2-Chloroethoxy)methane	440 U
2,4-Dichlorophenol	440 U
1,2,4-Trichlorobenzene	440 U
Naphthalene	440 U
4-Chloroaniline	440 U
Hexachlorobutadiene	440 U
4-Chloro-3-methylphenol	440 U
2-Methylnaphthalene	440 U
Hexachlorocyclopentadiene	440 U
2,4,6-Trichlorophenol	440 U
2,4,5-Trichlorophenol	1100 U
2-Chloronaphthalene	440 U
2-Nitroaniline	1100 U
Dimethylphthalate	440 U
Acenaphthylene	440 U
2,6-Dinitrotoluene	440 U
3-Nitroaniline	1100 U
Acenaphthene	440 U
2,4-Dinitrophenol	1100 U
4-Nitrophenol	1100 U
Dibenzofuran	440 U
2,4-Dinitrotoluene	440 U
Diethylphthalate	440 U
4-Chlorophenyl-phenylether	440 U
Fluorene	440 U
4-Nitroaniline	1100 U
4,6-Dinitro-2-methylphenol	1100 U
N-Nitrosodiphenylamine	440 U
4-Bromophenyl-phenylether	440 U
Hexachlorobenzene	440 U
Pentachlorophenol	1100 U
Phenanthrene	440 U
Anthracene	440 U

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

SEMIVOLATILES	FLAG
EPA SAMPLE NUMBER:	FES00
Carbazole	440 U
Di-n-butylphthalate	440 U
Fluoranthene	440 U
Pyrene	440 U
Butylbenzylphthalate	440 U
3,3'-Dichlorobenzidine	440 U
Benzo(a)anthracene	440 U
Chrysene	440 U
bis(2-Ethylhexyl)phthalate	730 U
Di-n-octylphthalate	440 U
Benzo(b)fluoranthene	440 U
Benzo(k)fluoranthene	440 U
Benzo(a)pyrene	440 U
Indeno(1,2,3-cd)pyrene	440 U
Dibenz(a,h)anthracene	440 U
Benzo(g,h,i)perylene	440 U
Sample wt (g):	30
%Moisture:	25
Dilution Factor:	1
Level:	LOW
Number of TIC's:	24

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

PESTICIDES/PCBs		FLAG		FLAG		FLAG		FLAG		FLAG		FLAG
EPA SAMPLE NUMBER:	FER34		FER35		FER39		FER40		FER41		FER90		FER91	
alpha-BHC	2.3	U	2.3	U	2.0	U	2.3	U	2.0	U	2.5	U	2.0	U
beta-BHC	2.3	U	2.3	U	2.0	U	2.3	U	2.0	U	2.5	U	2.0	U
delta-BHC	2.3	U	2.3	U	2.0	U	2.3	U	2.0	U	2.5	U	2.0	U
gamma-BHC (lindane)	2.3	U	2.3	U	2.0	U	2.3	U	2.0	U	2.5	U	2.0	U
Heptachlor	2.3	U	2.3	U	2.0	U	2.3	U	2.0	U	2.5	U	2.0	U
Aldrin	2.3	U	2.3	U	2.0	U	2.3	U	2.0	U	2.5	U	2.0	U
Heptachlor epoxide	2.3	U	2.3	U	2.0	U	2.3	U	2.0	U	2.5	U	2.0	U
Endosulfan I	2.3	U	2.3	U	2.0	U	2.3	U	2.0	U	2.5	U	2.0	U
Dieldrin	4.4	U	4.5	U	4.0	U	4.4	U	3.8	U	4.9	U	3.8	U
4,4'-DDE	4.4	U	4.5	U	4.0	U	4.4	U	3.8	U	4.9	U	3.8	U
Endrin	4.4	U	4.5	U	4.0	U	4.4	U	3.8	U	4.9	U	3.8	U
Endosulfan II	4.4	U	4.5	U	4.0	U	4.4	U	3.8	U	4.9	U	3.8	U
4,4'-DDD	4.4	U	4.5	U	4.0	U	4.4	U	3.8	U	4.9	U	3.8	U
Endosulfan sulfate	4.4	U	4.5	U	4.0	U	4.4	U	3.8	U	4.9	U	3.8	U
4,4'-DDT	4.4	U	4.5	U	4.0	U	4.4	U	3.8	U	4.9	U	3.8	U
Methoxychlor	23	U	23	U	20	U	23	U	20	U	25	U	20	U
Endrin ketone	4.4	U	4.5	U	4.0	U	4.4	U	3.8	U	4.9	U	3.8	U
Endrin aldehyde	4.4	U	4.5	U	4.0	U	4.4	U	3.8	U	4.9	U	3.8	U
alpha-Chlordane	2.3	U	2.3	U	2.0	U	2.3	U	2.0	U	2.5	U	2.0	U
gamma-Chlordane	2.3	U	2.3	U	2.0	U	2.3	U	2.0	U	3.2	J	2.0	U
Toxaphene	230	U	230	U	200	U	230	U	200	U	250	U	200	U
Aroclor-1016	44	U	45	U	40	U	44	U	38	U	49	U	38	U
Aroclor-1221	89	U	91	U	81	U	89	U	78	U	99	U	78	U
Aroclor-1232	44	U	45	U	40	U	44	U	38	U	49	U	38	U
Aroclor-1242	44	U	45	U	40	U	44	U	38	U	49	U	38	U
Aroclor-1248	44	U	45	U	40	U	44	U	38	U	49	U	38	U
Aroclor-1254	44	U	45	U	40	U	44	U	38	U	49	U	38	U
Aroclor-1260	44	U	45	U	40	U	44	U	38	U	49	U	38	U
Sample wt (g):	30		30		30		30		30		30		30	
%Moisture:	25		26		17		25		14		32		14	
Dilution Factor:	1		1		1		1		1		1		1	

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

PESTICIDES/PCBs	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG	FLAG
EPA SAMPLE NUMBER:	FER92	FER93	FER94	FER95	FER97	FER98	FER99
alpha-BHC	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
beta-BHC	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
delta-BHC	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
gamma-BHC (lindane)	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Heptachlor	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aldrin	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Heptachlor epoxide	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Endosulfan I	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dieldrin	4.0 U	4.1 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U
4,4'-DDE	4.0 U	4.1 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U
Endrin	4.0 U	4.1 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U
Endosulfan II	4.0 U	4.1 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U
4,4'-DDD	4.0 U	4.1 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U
Endosulfan sulfate	4.0 U	4.1 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U
4,4'-DDT	4.0 U	4.1 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U
Methoxychlor	21 U	21 U	20 U	20 U	20 U	20 U	20 U
Endrin ketone	4.0 U	4.1 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U
Endrin aldehyde	4.0 U	4.1 U	3.8 U	3.8 U	3.9 U	3.9 U	3.8 U
alpha-Chlordane	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
gamma-Chlordane	2.1 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toxaphene	210 U	210 U	200 U	200 U	200 U	200 U	200 U
Aroclor-1016	40 U	41 U	38 U	38 U	39 U	39 U	38 U
Aroclor-1221	82 U	83 U	78 U	78 U	80 U	79 U	77 U
Aroclor-1232	40 U	41 U	38 U	38 U	39 U	39 U	38 U
Aroclor-1242	40 U	41 U	38 U	38 U	39 U	39 U	38 U
Aroclor-1248	40 U	41 U	38 U	38 U	39 U	39 U	38 U
Aroclor-1254	40 U	41 U	38 U	38 U	39 U	39 U	38 U
Aroclor-1260	40 U	41 U	38 U	38 U	39 U	39 U	38 U
Sample wt (g):	30	30	30	30	30	30	30
%Moisture:	18	19	14	14	16	15	13
Dilution Factor:	1	1	1	1	1	1	1

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

ORGANIC DATA SUMMARY

Case No.: 24517 SDG: FER94 Reviewer: C. COVINGTON

Laboratory: AATSLA Matrix: SOIL Units: ug/Kg

PESTICIDES/PCBs	FLAG
EPA SAMPLE NUMBER:	FES00
alpha-BHC	2.3 U
beta-BHC	2.3 U
delta-BHC	2.3 U
gamma-BHC (lindane)	2.3 U
Heptachlor	2.3 U
Aldrin	2.3 U
Heptachlor epoxide	2.3 U
Endosulfan I	2.3 U
Dieldrin	4.4 U
4,4'-DDE	4.4 U
Endrin	4.4 U
Endosulfan II	4.4 U
4,4'-DDD	4.4 U
Endosulfan sulfate	4.4 U
4,4'-DDT	4.4 U
Methoxychlor	23 U
Endrin ketone	4.4 U
Endrin aldehyde	4.4 U
alpha-Chlordane	2.3 U
gamma-Chlordane	2.3 U
Toxaphene	230 U
Aroclor-1016	44 U
Aroclor-1221	89 U
Aroclor-1232	44 U
Aroclor-1242	44 U
Aroclor-1248	44 U
Aroclor-1254	44 U
Aroclor-1260	44 U
Sample wt (g):	30
%Moisture:	25
Dilution Factor:	1

Note: For the results listed in the Data Summary Table, ESAT has replaced the laboratory assigned flags with ESAT Organic Data Qualifiers. The ESAT flags indicate the technical usability of the reported results.

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 24517	SDG No. FER94	SDG Nos. To Follow	SAS No.	Date Rec 05/08/96

EPA Lab ID: AATSLA
Lab Location: Baton Rouge, LA
Region: 6 Audit No.: 24517/FER94
Re_Submitted CSF? Yes ____ No X
Box No(s): 1
COMMENTS:

Item No. Comment

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?	X		
12. Dated?	X		
AIRBILLS/AIRBILL STICKER			
13. Present?	X		
14. Signed?	X		
15. Dated?	X		
SAMPLE TAGS			
16. Does DC-1 list tags as being included?	X		
17. Present?	X		
OTHER DOCUMENTS			
18. Complete?	X		
19. Legible?	X		
20. Original?		X	
20a.If "NO", does the copy indicate where original documents are located?	X		

Audited by: C A Covington — C. A. Covington/Data Reviewer — Date 05/08/96
Audited by: ____ — ____ — Date ____
Audited by: ____ — ____ — Date ____
Signiture — Printed Name/Title

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: ____ Date Entered: ____ Date Reviewed: ____
Entered by: ____ ____
Reviewed by: ____ ____
Signature — Printed Name/Title

In Reference to Case No(s):
24517 SDG: FER94 (O-1685)

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
FAX Record Log

Date of FAX: May 15, 1996
Laboratory Name: AATSLA
Lab Contact: Dr. Bagawandoss

Region: 6
Regional Contact: Chris Covington - ESAT

FAX initiated by: _____Laboratory ___X___Region

In reference to data for the following fractions:

VOA BNA PEST/PCB

Summary of Questions/Issues:

A. VOA

1. Continuing Calibration (HP1, 3/31/96, 07:51, file B2865): Please submit the chromatogram and quantitation report for this calibration which were omitted from the data package.

2. Please explain why the "last calibration" time on the sample quantitation reports does not match that of the associated calibration listed on Forms 5 and 7.

3. Please demonstrate the SMC recovery calculation used for all samples. Please verify that this calculation matches the equation in the SOW (OLM03.2, D-43/VOA, 11.2.4.3). Submit corrected forms and raw data if necessary.

B. BNA

1. Please explain why the "last calibration" time on the sample quantitation reports does not match that of the associated calibration listed on Forms 5 and 7.

2. Samples FER41 and FER98: The laboratory did not identify the peak at approximately 19.17 minutes as a target compound, TIC, or alkane for these samples. Please submit corrected Form I's and supporting data as necessary.

FAX COMMUNICATION LOG

Continuation Page 2
Laboratory/Contact AATSLA/Dr. Bagawandoss
In Reference To Case No. 24517 SDG: FER94

C. PEST/PCB

1. Forms 6H, I and J: Please submit the following required forms that were omitted from the data package.

   Form 6H - PEM3F and PEM4F for instrument HP-3F
   PEM3F for instrument HP-2F
   Form 6I - INDAM2F and INDAM3F for both instruments
   Form 6J - INDBM2F and INDBM3F for both instruments

2. When simultaneous injections are not used, the laboratory is to apply <u>different</u> suffixes to identify the PEM, INDA, or INDB standards. This applies to Forms 6 (G, H, I, and J), 7 (D and E) and 8D and the associated raw data (OLM03.2, B-35, 3.3.7.7). Please correct for future cases.

3. Form 7E INDAMF2 (pg. 693, instrument HP2F, 18:42): Form 7E has a reporting error for the TCX calculated amount which made the %D appear to have failed the QC criteria. Please submit a corrected Form 7E.

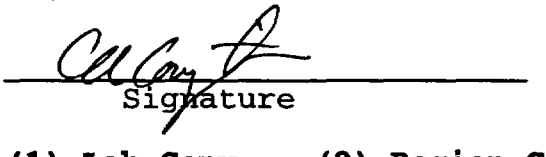
4. For future cases, please submit the resolution check solution results on one Form VI Pest-4 as requested in the SOW (OLM03.2, B-51, 3.12.3).

NOTE: Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 (OLM03.0, p. B-29), except those containing only replacement pages. Custody seals are required for all CSF resubmission shipments.

Please respond to the above items. Region 6 resubmissions may be included with CCS response or sent separately **<u>within 7 days</u>** to:

Ms. Christy Macdowell
U.S. EPA Region 6 Laboratory
10625 Fallstone Road
Houston, TX 77099

If you have any questions, please contact me at (713) 654-4843.



Signature

5-15-96
Date

Distribution: (1) Lab Copy (2) Region Copy

Lockheed Martin Environmental Systems and Technology
ESAT Region 6

1200 Smith Street, Suite 800, Houston, TX 77002 Tel:(713) 654-4843

FACSIMILE COVER SHEET

Please deliver the following pages to:

Name Dr. Bagawandoss

Firm AATSLA

City Baton Rouge **State** LA

Telephone (504) 753-8650 **Ext.** _____

Fax Telephone No. (504) 751-1405 **Ext.** _____

Sender:

Name Chris Covington

Date May 15, 1996

Total Number of pages including this Cover Sheet 3

If you do not receive all the pages or if any pages are unclear, please call: (713) 654-4843

MESSAGES: Resubmission request for Case 24517 SDG: FER94 (O-1685)

Fax Model No. Xerox Telecopier 7033, Fax No. 713-654-4852

EPA Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		6	TNRCC	03/27/96	Airborne

Regional Information:

Sampler (Name): Gary Hazelwood

Airbill Number: 434331967 6

Non-Superfund Program:

Sampler Signature: Gary Hazelwood

5. Ship To: American Analytical & Tech Serv. (AATS LA)
11950 Industriplex Blvd.
Baton Rouge, LA. 70809-5191
ATTN: Virginia Jones

Site Name: Old Brazos Forge

3. Purpose*: Lead — [X] SF, [ ] PRP, [ ] ST, [ ] FED; Early Action — [ ] CLEM, [ ] PA, [ ] REM, [X] RI, [ ] SI, [ ] ESI; Long-Term Action — [ ] FS, [ ] RD, [ ] RA, [ ] O&M, [ ] NPLD

City, State: Brenham, TX

Site Spill ID:

6. Matrix (Enter in Column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Field QC, 5. Soil/Sediment, 6. Oil (High only), 7. Waste (High only), 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl, 2. HNO3, 3. NaHSO4, 4. H2SO4, 5. Ice only, 6. Other (Specify in Column D), N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
FER99	5	L	G	5	X	X	X		6-020804-04	SE-01	03/26/96/0920	MFGN39	GH	—
FER97	5	L	G	5	X	X	X		6-020807-10	SE-02	03/26/96/0947	MFGH40	GH	—
FER00	5	L	G	5	X	X	X		6-020813-16	SE-03	03/26/96/1008	MFGH36	GH	—
											03/26/96/0859			GH 3/26/96
FER95	5	L	G	5	X	X	X		6-020825-28	SE-05	03/26/96/0835	MFGH37	GH	—
FER94	5	L	G	5	X	X	X		6-020831-34	SE-06	03/26/96/0859	MFGH38	GH	D (FER98)
FER98	5	L	G	5	X	X	X		6-020819-22	SE-04	03/26/96/0859	MFGH35	GH	—

Shipment for Case Complete? (Y/N): N

Page: 1 of 1

Sample(s) to be Used for Laboratory QC: FER99

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Gary Hazelwood	03/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

360348

Organic Traffic Report/Chain of Custody Form Instructions

This form replaces both the individual Traffic Report and EPA Chain of Custody Record.

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low Level*)	80 ml.	2 X 40-ml. Glass Vials

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar OR
	240 ml.	2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

*Soil VOA Vials under study, subject to change, check to ensure proper sealing.

All Medium and High Level Samples Must Be Sealed in Metal Cans for Shipment

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar

1. Organic Sample Collection Requirements

- Please indicate which sample(s) are to be used for laboratory QC (Matrix Spike/Matrix Spike Duplicate).
- Ship medium and high concentration samples in metal cans.
- Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
- Oily samples must be analyzed under the Special Analytical Services (SAS) program.
- Confirmatory analyses and Special Analytical Services (SAS) analyses that have been awarded as RAS-plus-SAS may require extra volume. Consult the specific method for RAS-plus-SAS volume requirements.
- Additional sample volume is not required for Low Concentration/Low Detection Limit Organic Analyses on water samples.

2. Cooler and Sample Documentation

- Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler, overlapping the lid and body with custody seals.
- Mail SMO the pink copy of the Traffic Report/Chain of Custody Form within 5 days.

3. Sample Shipment and Reporting

All relevent Department of Transportation regulations must be followed when shipping samples.
PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)

Required information:

- Case (and/or SAS) Number
- Date shipped
- Number of samples by concentration and matrix
- Carrier and airbill number
- Next planned shipment

- Leave your name and a number where you can be reached.
- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
- CALL IF YOU HAVE ANY QUESTIONS

Sample Management Office
300 North Lee Street
Suite 200
Alexandria, VA 22314
Phone: (703) 519-1200
FAX: (703) 683-0378

Lead
SF = Superfund
PRP = Commercial Potentially Responsible Party
ST = State
FED = Federal Facility

Purpose Codes

Early Action
CLEM = Classical Emergency
PA = Early Action Preliminary Assessment
REM = Removal

SI = Site Inspection
ESI = Expanded Site Inspection
RI = Remedial Investigation

Long-Term Action
FS = Feasibility Study
RD = Remedial Design
RA = Remedial Action
O&M = Operation & Maintenance
NPLD = National Priorities List Deletion

• U.S.G.P.O.:1993-356-662

Record of Communication

Name: Jonathan Rude

Contact Recv'd Via: _ Phone _ Fax X Vmail _ Memo _ Other

Date/Time of Contact 3/28/96 3:36 PM

Initiated By: X Lab _ CLASS _ Region _ Other

Contact/Org./Phone#: Virginia Jones/ American Analytical & Technical Services/ (504) 753-8650

Lab: AATSLA Contract#: D5-0023 A Case#: 24517 SDG: FER94 Region: 6

SOW: Affected Samples: FER00 (should be) FES00; TR has 5 aq. SV & P/P (should be 6 & VOA too) Invoice#:

Discussion/Issue:

3/28/96 @ 1536 - Virginia Jones / AATSLA / (504)753-8650 - AATSLA reported the following problems with sample received on 3/28/96 for this case:

1. FEROO is a SOIL, marked on the TR, but the actual sample number is FES00 as indicated on the bottles and tags. NOTE IN THE NARRATIVE?

2. The TR indicates that 5 aqueous samples for BNA and PEST/PCB were sent for this case, however, the laboratory received 6 aqueous for FTCL. The sixth sample is a VOA trip blank. PROCEED? NOTE IN THE NARRATIVE?

3/29/96 @ 1245 - Myra Perez / Region VI, RSCC / (713)983-2130 - A facsimile of this discussion was provided to Region VI for resolution/response.

Resolution

4/1/96 Case 24517 and unresolved issues were passed over to the new CLASS regional coordinator, Carol Shaeffer. Contacted RSCC Myra Perez for resolution on outstanding issues.

1. Per AATSLA, bottle labels and tags specify FES00. Appears to be transcription error on TR. Lab to note in case narrative.
2. RSCC requests additional information to ensure that extra samples are unique samples and not additional aliquots for other samples.

4/2/96 AATSLA was contacted to obtain listing of what was received. Primary contact Virginia Jones was not in the office. Robyn Darby, back-up, would attempt to provide listing of samples received in order to assist in determination of actual samples received. Listing not provided 4/2/96.

4/3/96 9:27 AM Virginia Jones, AATSLA, contacted CLASS to review situation.

10:15 AM CLASS returned call. The issue as described by the lab is that that there was a discrepancy between what was actually received by the lab and the shipping information that was reported by CLASS (J.R. as received from the sampler). Lab received 5 low waters for full organic analysis (VOA, BNA, pest/PCB), not just BNA and pest/PCBs. The TR/COCs and the numbers and requested analyses all match. The samples shipped were also consistent with what was scheduled. No other issues. Lab will proceed with log-in and analysis.

CLASS will update shipping information.

RAS OPS	No	Completed Date/Time: 4/3/96	10:15 A
Routed:	No	Referred To	
	Distribution: ◉ Lab ◉ Region ◉ CLASS (		

Post-it® Fax Note 7671	Date 4/3/96	# of pages ▶
To Myra Perez	From Carol Shaeffer	
Co./Dept. EPA Region VI	Co. DynCorp / CLASS	
Phone # 713-983-2130	Phone # 703-519-1461	
Fax #	Fax #	

EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Project Code / Account Code	
2. Region No.: 6	Sampling Co.: TNRCC
4. Date Shipped: 3/28/96	Carrier: Airborne
Regional Information	Sampler (Name): Gary Hazelwood
	Airbill Number: 434331 9072
Non-Superfund Program	Sampler Signature: Gary Hazelwood
Site Name: OLD BEARS FORGE	3. Purpose: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM [X] RI [ ] SI [ ] ESI; Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD
City, State: BURTON TX / Site Spill ID	5. Ship To: AATSLA 11950 Industriplex Blvd Baton Rouge, LA ATTN: Virginia Jones

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank S = Spike D = Duplicate R = Rinsate PE = Perform. Eval. — = Not a QC Sample)
FER92	5	L	G	5		X	X		6-020839-40	SO-01	03/27/96 0924	MFGH44	GH	—
FER93	5	L	G	5		X	X		6-020845-46	SO-02	03/27/96 0933	MFGH41	GH	—
FER91	5	L	G	5		X	X		6-020851-52	SO-03	03/27/96 1048	MFGH45	GH	D(FER41)
FER90	5	L	G	5		X	X		6-020857-58	SO-04	03/27/96 1116	MFGH42	GH	—
FER35	5	L	G	5		X	X		6-020863-64	SO-05	03/27/96 1358	MFGH46	GH	—
FER34	5	L	G	5		X	X		6-020869-70	SO-06	03/27/96 1419	MFGH43	GH	—
FER40	5	L	G	5		X	X		6-020875-76	SO-07	03/27/96 1440	MFGEØP	GH	—
FERGH	5	L	G	5		X	X		6-020881-82	SO-08	03/27/96 1048	MFGD97	GH	—
FER39	5	L	G	5		X	X		6-020887-88	SO-09	03/27/96 1016	MFGD99	GH	—

Shipment for Case Complete? (Y/N): YES

Page: 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Morgan Pong	3/28/96 1800				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

360354

Organic Traffic Report/Chain of Custody Form Instructions

This form replaces both the individual Traffic Report and EPA Chain of Custody Record.

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low Level*)	80 ml.	2 X 40-ml. Glass Vials

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	6 oz. OR 240 ml.	1 X 8-oz. Wide-Mouth Glass Jar OR 2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)		2 X 120 ml. Wide-Mouth Glass Vials†

†Soil VOA vials under study, subject to change, check to ensure proper sealing.

*All Medium and High Level Samples Must be Sealed in Metal Can for Shipment

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	6 oz.	1 X 8-oz. Wide-Mouth Glass Jar

1. Organic Sample Collection Requirements

- Please indicate which sample(s) are to be used for laboratory QC (Matrix Spike/Matrix Spike Duplicate).
- Ship medium and high concentration samples in metal cans.
- Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
- Oily samples must be analyzed under the Special Analytical Services (SAS) program.
- Confirmatory analyses and Special Analytical Services (SAS) analyses that have been awarded as RAS-plus-SAS may require extra volume. Consult the specific method for RAS-plus-SAS volume requirements.
- Additional sample volume is not required for Low Concentration/Low Detection Limit Organic Analyses on water samples.

2. Cooler and Sample Documentation

- Complete all sections of the Traffic Report/Chain of Custody Form. Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Cool low waters to 4°C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler, overlapping the lid and body with custody seals.
- Mail SMO the pink copy of the Traffic Report/Chain of Custody Form within 5 days.

3. Sample Shipment and Reporting

All relevent Department of Transportation regulations must be followed when shipping samples.
PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed).

Required information:
- Case (and/or SAS) Number
- Date shipped
- Number of samples by concentration and matrix
- Carrier and airbill number
- Next planned shipment

- Leave your name and a number where you can be reached.
- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.).
- CALL IF YOU HAVE ANY QUESTIONS

Sample Management Office
300 North Lee Street
Suite 200
Alexandria, VA 22314
Phone: (703) 519-1200
FAX: (703) 683-0378

Lead
- SF = Superfund
- PRP = Commercial Potentially Responsible Party
- ST = State
- FED = Federal Facility

Purpose Codes

Early Action
- CLEM = Classical Emergency
- PA = Early Action Preliminary Assessment
- REM = Removal

- SI = Site Inspection
- ESI = Expanded Site Inspection
- RI = Remedial Investigation

Long-Term Action
- FS = Feasibility Study
- RD = Remedial Design
- RA = Remedial Action
- O&M = Operation & Maintenance
- NPLD = National Priorities List Deletion

★ U.S.G.P.O.:1993-356-662

16

EPA — Organic Traffic Report & Chain of Custody Record

United States Environmental Protection Agency
Contract Laboratory Program

(For Organic CLP Analysis)

SAS No. (If applicable):

Case No.: 24517

1. Project Code	Account Code
2. Region No.: 6	Sampling Co.: TNRCC
4. Date Shipped: 3/28/96	Carrier: AIRBORNE
Regional Information	Sampler (Name): Gary Hazelwood
	Airbill Number: 434331917 5
Non-Superfund Program	Sampler Signature: Gary Hazelwood
Site Name: OLD BRAZOS FORGE	3. Purpose* — Early Action: CLEM, PA, REM, RI, SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD; Fed: SF, PRP, ST, FED
City, State: BRAZORIA, TX	Site Spill ID
5. Ship To: AATSLA 1950 INDUSTRIPLEX BLVD. BATON ROUGE, LA 70809 ATTN: VIRGINIA JONES	

6. Matrix (Enter in Column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Field QC, 5. Soil/Sediment, 6. Oil (High only), 7. Waste (High only), 8. Other (Specify in Column A)

7. Preservative (Enter in Column D): 1. HCl, 2. HNO3, 3. NaHSO4, 4. H2SO4, 5. Ice only, 6. Other (Specify in Column D), N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) / Other	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) / Other	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/ TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
FER92	5	L	G	5	X				6-020837-38	SO-01	03/27/96/0921	MFGH44	GH	—
FER93	5	L	G	5	X				6-020843-44	SO-02	03/27/96/0933	MFGH41	GH	—
FER91	5	L	G	5	X				6-020849-50	SO-03	03/27/96/1048	MFGH45	GH	D(FER41)
FER90	5	L	G	5	X				6-020855-56	SO-04	03/27/96/1116	MFGH42	GH	—
FER35	5	L	G	5	X				6-020861-62	SO-05	03/27/96/1358	MFGH46	GH	—
FER34	5	L	G	5	X				6-020867-68	SO-06	03/27/96/1419	MFGH43	GH	—
FER40	5	L	G	5	X				6-020873-74	SO-07	03/27/96/1440	MFGE00	GH	—
FER41	5	L	G	5	X				6-020879-80	SO-08	03/27/96/1048	MFGD97	GH	—
FER39	5	L	G	5	X				6-020885-86	SO-09	03/27/96/1018	MFGD99	GH	—

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 1			

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Abigail Ross	03/28/96 1800				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

A21-012-3 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

360355

Organic Traffic Report/Chain of Custody Form Instructions

This form replaces both the individual Traffic Report and EPA Chain of Custody Record.

Water Samples	Required Volume	Container Type
Extractable Analysis (Low Level)	1 Gallon	1 X 4-Liter Amber Glass Bottle OR 2 X 80-oz. Amber Glass Bottle OR 4 X 1-Liter Amber Glass Bottles
Extractable Analysis	1 Gallon	32-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low Level*)	80 mL	2 X 40-mL Glass Vials

Soil/Sediment Samples	Required Volume	Container Type
Extractable Analysis (Low or Medium Level*)	8 oz.	1 X 8-oz. Wide-Mouth Glass Jar OR 2 X 4-oz. Wide-Mouth Glass Jars
Volatile Analysis (Low or Medium Level*)	240 mL	2 X 120 mL Wide-Mouth Glass Vials†

†Soil VOA Vials under study, subject to change, check to ensure proper sealing.

All Medium and High Level Samples Must be Sealed in Metal Can for Shipment

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Extractable and Volatile Analysis	4 oz.	1 X 8-oz. Wide-Mouth Glass Jar

1. Organic Sample Collection Requirements

- Please indicate which sample(s) are to be used for laboratory QC (Matrix Spike/Matrix Spike Duplicate).
- Ship medium and high concentration samples in metal cans.
- Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
- Only samples must be analyzed under the Special Analytical Services (SAS) program.
- Confirmatory analyses and Special Analytical Services (SAS) analyses that have been awarded as RAS-plus-SAS, may require extra volume. Consult the specific method for RAS-plus-SAS volume requirements.
- Additional sample volume is not required for Low Concentration/Low Detection Limit Organic Analyses on water samples.

2. Cooler and Sample Documentation

- Complete all sections of the Traffic Report/Chain of Custody Form. Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler overlapping the lid and body with custody seals.
- Mail SMO the pink copy of the Traffic Report/Chain of Custody Form within 5 days.

3. Sample Shipment and Reporting

All relevent Department of Transportation regulations must be followed when shipping samples.
PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)

Required information:

- Case (and/or SAS) Number
- Date shipped
- Number of samples by concentration and matrix
- Carrier and airbill number
- Next planned shipment

Leave your name and a number where you can be reached.

- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
- CALL IF YOU HAVE ANY QUESTIONS

Sample Management Office
300 North Lee Street
Suite 200
Alexandria, VA 22314
Phone: (703) 519-1200
FAX: (703) 683-0378

Lead
SF = Superfund
PRP = Commercial Potentially Responsible Party
ST = State
FED = Federal Facility

Purpose Codes

Early Action
CLEM = Classical Emergency
PA = Early Action Preliminary Assessment
REM = Removal

SI = Site Inspection
ESI = Expanded Site Inspection
RI = Remedial Investigation

Long-Term Action
FS = Feasibility Study
RD = Remedial Design
RA = Remedial Action
O&M = Operation & Maintenance
NPLD = National Priorities List Deletion

★ U.S.G.P.O.:1993-358-662

380322

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET 000020

EPA SAMPLE NO.
FER34

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542701

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2854

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 25 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13	U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET **000024**

EPA SAMPLE NO.
FER35

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542702

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2872

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 26 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	U
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000028 EPA SAMPLE NO.

FER39

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542703

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2873

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 18 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET 000032

EPA SAMPLE NO.

FER40

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542704

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2874

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 26 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	U
67-64-1	Acetone	14	
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET 000038

EPA SAMPLE NO.

FER40RE

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542704RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2880

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 26 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	U
67-64-1	Acetone	14	
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-88-3	Toluene	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET **000043**

EPA SAMPLE NO.

FER41

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542705

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2875

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 14 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET **000048**

EPA SAMPLE NO.

FER90

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542706

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2881

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 32 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	15	U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-88-3	Toluene	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

000052 EPA SAMPLE NO.

FER91

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542707

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2882

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 14 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET **000056**

EPA SAMPLE NO.

FER92

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542708

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2878

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 18 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	6	J
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
FER93

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542709

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2879

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 20 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

000065 EPA SAMPLE NO.

FER94

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541102

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2850

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 14 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET **000069** EPA SAMPLE NO.

FER95

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541103

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2843

Level: (low/med) LOW Date Received: 03/28/96 ✓

% Moisture: not dec. 14 Date Analyzed: 03/30/96 ✓

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG ✓	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	4	J
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FER97

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541104

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2851

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 16 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FER98

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541105

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2852

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 15 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET **000090**

EPA SAMPLE NO.

FER99

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541106

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2853

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 14 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET **000094**

EPA SAMPLE NO.

FES00

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541101

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2849

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 25 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13	U
67-64-1	Acetone	25	
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Dibromochloromethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-88-3	Toluene	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylene (total)	13	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000181 EPA SAMPLE NO.

FER34

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542701

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77432

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 25 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0(uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 1.0 4/14/96

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000182

EPA SAMPLE NO.

FER34

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542701

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77432

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 25 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/4/96

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)phthalate	670	B
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenz(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000209

EPA SAMPLE NO.

FER35

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542702

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77439

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/14/96

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
541-73-1	1,3-Dichlorobenzene	450	U
106-46-7	1,4-Dichlorobenzene	450	U
95-50-1	1,2-Dichlorobenzene	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
120-82-1	1,2,4-Trichlorobenzene	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
208-96-8	Acenaphthylene	450	U
606-20-2	2,6-Dinitrotoluene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000210 EPA SAMPLE NO.

FER35

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542702

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77439

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~0.5~~ 1.0 4/4/96

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	450	U
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)phthalate	520	B ✓
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenz(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000237 EPA SAMPLE NO.

FER39

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542703

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77497

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/14/96

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

000238

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FER39

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542703

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77497

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 1 2 4/12/96

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	580	B
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenz(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000265 EPA SAMPLE NO.

FER40

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542704

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77441

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ 0.5

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
541-73-1	1,3-Dichlorobenzene	450	U
106-46-7	1,4-Dichlorobenzene	450	U
95-50-1	1,2-Dichlorobenzene	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5	4-Methylphenol	450	U
621-64-7	N-Nitroso-di-n-propylamine	450	U
67-72-1	Hexachloroethane	450	U
98-95-3	Nitrobenzene	450	U
78-59-1	Isophorone	450	U
88-75-5	2-Nitrophenol	450	U
105-67-9	2,4-Dimethylphenol	450	U
111-91-1	bis(2-Chloroethoxy)methane	450	U
120-83-2	2,4-Dichlorophenol	450	U
120-82-1	1,2,4-Trichlorobenzene	450	U
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	450	U
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
208-96-8	Acenaphthylene	450	U
606-20-2	2,6-Dinitrotoluene	450	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000266 EPA SAMPLE NO.

FER40

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542704

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77441

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/4/96

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	450	U
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
7005-72-3	4-Chlorophenyl-phenylether	450	U
86-73-7	Fluorene	450	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	450	U
101-55-3	4-Bromophenyl-phenylether	450	U
118-74-1	Hexachlorobenzene	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	450	U
120-12-7	Anthracene	450	U
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	97	J ✓
206-44-0	Fluoranthene	200	J ✓
129-00-0	Pyrene	450	U
85-68-7	Butylbenzylphthalate	450	U
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	450	U
218-01-9	Chrysene	450	U
117-81-7	bis(2-Ethylhexyl)phthalate	3100	B ✓
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	450	U
207-08-9	Benzo(k)fluoranthene	450	U
50-32-8	Benzo(a)pyrene	450	U
193-39-5	Indeno(1,2,3-cd)pyrene	450	U
53-70-3	Dibenz(a,h)anthracene	450	U
191-24-2	Benzo(g,h,i)perylene	450	U

(1) - Cannot be separated from Diphenylamine

4/4/96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000286 EPA SAMPLE NO.

FER41

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542705

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77442

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/12/96

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	380	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000287

EPA SAMPLE NO.

FER41

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542705

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77442

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 1.0 4/16/96

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	970	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	970	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	430	B
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000298 EPA SAMPLE NO.

FER90

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542706

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77443

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 1.0 4/4/96

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	490	U
111-44-4	bis(2-Chloroethyl)ether	490	U
95-57-8	2-Chlorophenol	490	U
541-73-1	1,3-Dichlorobenzene	490	U
106-46-7	1,4-Dichlorobenzene	490	U
95-50-1	1,2-Dichlorobenzene	490	U
95-48-7	2-Methylphenol	490	U
108-60-1	2,2'-oxybis(1-Chloropropane)	490	U
106-44-5	4-Methylphenol	490	U
621-64-7	N-Nitroso-di-n-propylamine	490	U
67-72-1	Hexachloroethane	490	U
98-95-3	Nitrobenzene	490	U
78-59-1	Isophorone	490	U
88-75-5	2-Nitrophenol	490	U
105-67-9	2,4-Dimethylphenol	490	U
111-91-1	bis(2-Chloroethoxy)methane	490	U
120-83-2	2,4-Dichlorophenol	490	U
120-82-1	1,2,4-Trichlorobenzene	490	U
91-20-3	Naphthalene	490	U
106-47-8	4-Chloroaniline	490	U
87-68-3	Hexachlorobutadiene	490	U
59-50-7	4-Chloro-3-methylphenol	490	U
91-57-6	2-Methylnaphthalene	490	U
77-47-4	Hexachlorocyclopentadiene	490	U
88-06-2	2,4,6-Trichlorophenol	490	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	490	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	490	U
208-96-8	Acenaphthylene	490	U
606-20-2	2,6-Dinitrotoluene	490	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	490	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000299 EPA SAMPLE NO.

FER90

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542706

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77443

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/14/96

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	490	U
121-14-2	2,4-Dinitrotoluene	490	U
84-66-2	Diethylphthalate	490	U
7005-72-3	4-Chlorophenyl-phenylether	490	U
86-73-7	Fluorene	490	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	490	U
101-55-3	4-Bromophenyl-phenylether	490	U
118-74-1	Hexachlorobenzene	490	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	490	U
120-12-7	Anthracene	490	U
86-74-8	Carbazole	490	U
84-74-2	Di-n-butylphthalate	86	J ✓ •
206-44-0	Fluoranthene	490	U
129-00-0	Pyrene	100	J ✓ •
85-68-7	Butylbenzylphthalate	490	U
91-94-1	3,3'-Dichlorobenzidine	490	U
56-55-3	Benzo(a)anthracene	490	U
218-01-9	Chrysene	490	U
117-81-7	bis(2-Ethylhexyl)phthalate	2000	BE ✓ •
117-84-0	Di-n-octylphthalate	2400	~~E~~ ✓ •
205-99-2	Benzo(b)fluoranthene	490	U
207-08-9	Benzo(k)fluoranthene	490	U
50-32-8	Benzo(a)pyrene	490	U
193-39-5	Indeno(1,2,3-cd)pyrene	490	U
53-70-3	Dibenz(a,h)anthracene	490	U
191-24-2	Benzo(g,h,i)perylene	150	J ✓ •

(1) - Cannot be separated from Diphenylamine

4/16/96

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000328 EPA SAMPLE NO.

FER91

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542707

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77444

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/4/96

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000329 EPA SAMPLE NO.

FER91

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542707

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77444

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/12/96

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	970	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	970	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	540	B
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000360 EPA SAMPLE NO.

FER93

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542709

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77503

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 04/14/96

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
95-50-1	1,2-Dichlorobenzene	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
208-96-8	Acenaphthylene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000361

EPA SAMPLE NO.

FER93

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542709

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77503

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 1 4/11/96

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
7005-72-3	4-Chlorophenyl-phenylether	410	U
86-73-7	Fluorene	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	410	U
120-12-7	Anthracene	410	U
86-74-8	Carbazole	410	U
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	410	U
129-00-0	Pyrene	410	U
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	410	U
218-01-9	Chrysene	410	U
117-81-7	bis(2-Ethylhexyl)phthalate	560	B
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
50-32-8	Benzo(a)pyrene	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
53-70-3	Dibenz(a,h)anthracene	410	U
191-24-2	Benzo(g,h,i)perylene	410	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000375 EPA SAMPLE NO.

FER94

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541102

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77425

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/2/96

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000376 EPA SAMPLE NO.

FER94

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541102

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77425

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0 ~~0.5~~ 4/4/96

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	970	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	970	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	480	B
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET **000389** EPA SAMPLE NO.

FER95

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541103

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77426

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 1 4/4/96

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000390

EPA SAMPLE NO.

FER95

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541103

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77426

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0 ~~0.5~~ 2 4/4/96

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	970	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	970	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	460	B
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

000402

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FER97

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541104

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77427

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/6/96

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	990	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	990	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	990	U
83-32-9	Acenaphthene	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000403 EPA SAMPLE NO.

FER97

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541104

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77427

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ 0.5 4/6/96

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	990	U
100-02-7	4-Nitrophenol	990	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	990	U
534-52-1	4,6-Dinitro-2-methylphenol	990	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	990	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	600	B
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenz(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000414 EPA SAMPLE NO.

FER98

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541105

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77428

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/4/96

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	980	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	980	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	980	U
83-32-9	Acenaphthene	390	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000415

EPA SAMPLE NO.

FER98

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541105

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77428

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0(uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 1/28/96

GPC Cleanup: (Y/N) Y pH: 8.1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	980	U
100-02-7	4-Nitrophenol	980	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	980	U
534-52-1	4,6-Dinitro-2-methylphenol	980	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	980	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	590	B
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenz(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000431

EPA SAMPLE NO.

FER99

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541106

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77429

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/4/96

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	380	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FER99

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541106

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77429

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/6/96

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	970	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	970	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	B
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000444

EPA SAMPLE NO.

FES00

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541101

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77424

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 25 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0 ~~0.5~~ 2 4/6/96

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
95-50-1	1,2-Dichlorobenzene	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
120-82-1	1,2,4-Trichlorobenzene	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
208-96-8	Acenaphthylene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000445

EPA SAMPLE NO.

FES00

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541101

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77424

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 25 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/4/96

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
86-73-7	Fluorene	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	440	U
120-12-7	Anthracene	440	U
86-74-8	Carbazole	440	U
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	440	U
129-00-0	Pyrene	440	U
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	440	U
218-01-9	Chrysene	440	U
117-81-7	bis(2-Ethylhexyl)phthalate	730	B
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	440	U
207-08-9	Benzo(k)fluoranthene	440	U
50-32-8	Benzo(a)pyrene	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
53-70-3	Dibenz(a,h)anthracene	440	U
191-24-2	Benzo(g,h,i)perylene	440	U

(1) - Cannot be separated from Diphenylamine

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000592

FER34

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15427_01

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

% Moisture: 25 decanted: (Y/N) N Date Received: 03/29/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000597 EPA SAMPLE NO.

FER35

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15427_02

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

% Moisture: 26 decanted: (Y/N) N Date Received: 03/29/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.5	U
72-55-9	4,4'-DDE	4.5	U
72-20-8	Endrin	4.5	U
33213-65-9	Endosulfan II	4.5	U
72-54-8	4,4'-DDD	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
50-29-3	4,4'-DDT	4.5	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	4.5	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	45	U
11104-28-2	Aroclor-1221	91	U
11141-16-5	Aroclor-1232	45	U
53469-21-9	Aroclor-1242	45	U
12672-29-6	Aroclor-1248	45	U
11097-69-1	Aroclor-1254	45	U
11096-82-5	Aroclor-1260	45	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000602

EPA SAMPLE NO.

FER39

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15427_03

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

% Moisture: 17 decanted: (Y/N) N Date Received: 03/29/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	81	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000607

EPA SAMPLE NO.

FER40

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15427_04

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

% Moisture: 25 decanted: (Y/N) N Date Received: 03/29/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 000614

EPA SAMPLE NO.

FER41

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15427_05

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

% Moisture: 14 decanted: (Y/N) N Date Received: 03/29/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 000619

FER90

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15427_06

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

% Moisture: 32 decanted: (Y/N) N Date Received: 03/29/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.5	U
319-85-7	beta-BHC	2.5	U
319-86-8	delta-BHC	2.5	U
58-89-9	gamma-BHC (Lindane)	2.5	U
76-44-8	Heptachlor	2.5	U
309-00-2	Aldrin	2.5	U
1024-57-3	Heptachlor epoxide	2.5	U
959-98-8	Endosulfan I	2.5	U
60-57-1	Dieldrin	4.9	U
72-55-9	4,4'-DDE	4.9	U
72-20-8	Endrin	4.9	U
33213-65-9	Endosulfan II	4.9	U
72-54-8	4,4'-DDD	4.9	U
1031-07-8	Endosulfan sulfate	4.9	U
50-29-3	4,4'-DDT	4.9	U
72-43-5	Methoxychlor	25	U
53494-70-5	Endrin ketone	4.9	U
7421-93-4	Endrin aldehyde	4.9	U
5103-71-9	alpha-Chlordane	2.5	U
5103-74-2	gamma-Chlordane	3.2	P *
8001-35-2	Toxaphene	250	U
12674-11-2	Aroclor-1016	49	U
11104-28-2	Aroclor-1221	99	U
11141-16-5	Aroclor-1232	49	U
53469-21-9	Aroclor-1242	49	U
12672-29-6	Aroclor-1248	49	U
11097-69-1	Aroclor-1254	49	U
11096-82-5	Aroclor-1260	49	U

1D

EPA SAMPLE NO.

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000625

FER91

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15427_07

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

% Moisture: 14 decanted: (Y/N) N Date Received: 03/29/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000630

FER92

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15427_08

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

% Moisture: 18 decanted: (Y/N) N Date Received: 03/29/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	4.0	U
72-20-8	Endrin	4.0	U
33213-65-9	Endosulfan II	4.0	U
72-54-8	4,4'-DDD	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	4.0	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	40	U
11104-28-2	Aroclor-1221	82	U
11141-16-5	Aroclor-1232	40	U
53469-21-9	Aroclor-1242	40	U
12672-29-6	Aroclor-1248	40	U
11097-69-1	Aroclor-1254	40	U
11096-82-5	Aroclor-1260	40	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 000635

EPA SAMPLE NO.

FER93

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15427_09

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

% Moisture: 19 decanted: (Y/N) N Date Received: 03/29/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1	U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	4.1	U
72-20-8	Endrin	4.1	U
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000640

FER94

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15411_02

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

% Moisture: 14 decanted: (Y/N) N Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET 000645

EPA SAMPLE NO.

FER95

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15411_03

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

% Moisture: 14 decanted: (Y/N) N Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

000650 EPA SAMPLE NO.

FER97

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15411_04

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

% Moisture: 16 decanted: (Y/N) N Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET 000655

EPA SAMPLE NO.

FER98

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15411_05

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

% Moisture: 15 decanted: (Y/N) N Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.9	U
72-55-9	4,4'-DDE	3.9	U
72-20-8	Endrin	3.9	U
33213-65-9	Endosulfan II	3.9	U
72-54-8	4,4'-DDD	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	3.9	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3.9	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 000660

EPA SAMPLE NO.

FER99

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15411_06

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

% Moisture: 13 decanted: (Y/N) N Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	3.8	U
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	3.8	U
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 000665

EPA SAMPLE NO.

FES00

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15411_01

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

% Moisture: 25 decanted: (Y/N) N Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2.3	U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4.4	U
72-55-9	4,4'-DDE	4.4	U
72-20-8	Endrin	4.4	U
33213-65-9	Endosulfan II	4.4	U
72-54-8	4,4'-DDD	4.4	U
1031-07-8	Endosulfan sulfate	4.4	U
50-29-3	4,4'-DDT	4.4	U
72-43-5	Methoxychlor	23	U
53494-70-5	Endrin ketone	4.4	U
7421-93-4	Endrin aldehyde	4.4	U
5103-71-9	alpha-Chlordane	2.3	U
5103-74-2	gamma-Chlordane	2.3	U
8001-35-2	Toxaphene	230	U
12674-11-2	Aroclor-1016	44	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	44	U
53469-21-9	Aroclor-1242	44	U
12672-29-6	Aroclor-1248	44	U
11097-69-1	Aroclor-1254	44	U
11096-82-5	Aroclor-1260	44	U

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME American Analytical & Technical Services, Inc.
CITY/STATE Baton Rouge, Louisiana

CASE NO. 24517 SDG NO. FER94 SDG NOS. TO FOLLOW _____
SAS NO. _____

CONTRACT NO. 68-D5-0023
SOW NO. OLM03.1

All documents delivered in the complete SDG file must be original documents where possible.

		PAGE NOs FROM	TO	CHECK LAB	EPA
1.	Inventory Sheet (Form DC-2) (Do not number)				
2.	SDG Case Narrative	1	4	✓	✓
3.	SDG Cover Sheet/Traffic Report	5	10	✓	✓
4.	Volatiles Data				
a.	QC Summary				
	System Monitoring Compound Summary (Form II VOA)	11	11	✓	✓
	Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	12	12	✓	✓
	Method Blank Summary (Form IV VOA)	13	14	✓	✓
	GC/MS Instrument Performance Check (Form V VOA)	15	17	✓	✓
	Internal Standard Area and RT Summary (Form VIII VOA)	18	19	✓	✓
b.	Sample Data	20	98	✓	✓
	TCL Results - (Form I VOA)			✓	—
	Tentatively Identified Compounds (Form I VOA-TIC)			✓	—
	Reconstructed total ion chromatograms (RIC) for each sample			✓	—
	For each sample:				
	Raw spectra and background-subtracted mass spectra of target compounds identified			✓	—
	Quantitation reports			✓	—
	Mass spectra of all reported TICs with three best library matches			✓	—
c.	Standards Data (All Instruments)	99	141		
	Initial Calibration Data (Form VI VOA)			✓	✓
	RICs and Quan Reports for all Standards			✓	—
	Continuing Calibration Data (Form VII VOA)			✓	—
	RICs and Quantitation Reports for all Standards			✓	—
d.	Raw QC Data				
	BFB	142	147	✓	✓
	Blank Data	148	160	✓	✓
	Matrix Spike/Matrix Spike Duplicate Data	161	166	✓	✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 24517 SDG NO. FER94 SDG NOS. TO FOLLOW _____
SAS NO. _____

		PAGE NOs FROM	TO	CHECK LAB	EPA
5.	Semivolatiles Data				
a.	QC Summary				
	Surrogate Percent Recovery Summary (Form II SV)	167	167	✓	✓
	MS/MSD Summary (Form III SV)	168	168	✓	✓
	Method Blank Summary (Form IV SV)	169	170	✓	✓
	GC/MS Instrument Performance Check (Form V SV)	171	174	✓	✓
	Internal Standard Area and RT Summary (Form VIII SV)	175	180	✓	✓
b.	Sample Data	181	495		
	TCL Results - (Form I SV-1. SV-2)				
	Tentatively Identified Compounds (Form I SV-TIC)			✓	✓
	Reconstructed total ion chromatograms (RIC) for each sample			✓	✓
	For each sample:				
	Raw spectra and background-subtracted mass spectra of target compounds			✓	✓
	Quantitation reports			✓	✓
	Mass spectra of TICs with three best library matches			✓	✓
	GPC chromatograms (if GPC performed)✓			✓	✓
c.	Standards Data (All Instruments)	496	537		
	Initial Calibration Data (Form VI SV-1, SV-2)			✓	✓
	RICs and Quan Reports for all Standards			✓	✓
	Continuing Calibration Data (Form VII SV-1, SV-2)			✓	✓
	RICs and Quantitation Reports for all Standards			✓	✓
d.	Raw QC Data				
	DFTPP	538	546	✓	✓
	Blank Data	547	567	✓	✓
	Matrix Spike/Matrix Spike Duplicate Data	568	575	✓	✓
e.	Raw GPC Data	576	588	✓	✓
6.	Pesticides				
a.	QC Summary				
	Surrogate Percent Recovery Summary (Form II PEST)	589	589	✓	✓
	MS/MSD Duplicate Summary (Form III PEST)	590	590	✓	✓
	Method Blank Summary (Form IV PEST)	591	591	✓	✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 24517 SDG NO. FER94 SDG NOS. TO FOLLOW _____
SAS NO. _____

		PAGE NOs FROM	TO	CHECK LAB	EPA
6.	Pesticides (cont.)				
b.	Sample Data	392	669		
	TCL Results - Organic Analysis Data Sheet (Form I PEST)			✓	✓
	Chromatograms (Primary Column)			✓	✓
	Chromatograms from second GC Column confirmation			✓	✓
	GC Integration report or data system printout			✓	-
	Manual work sheets			NA	N/A
	For pesticides/Aroclors confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			NA	N/A
c.	Standards Data	670	809		
	Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)			✓	✓
	Initial Calibration of Multicomponent Analytes (Form VI PEST-3)			✓	✓
	Analyte Resolution Summary (Form VI PEST-4)			✓	✓
	Performance Evaluation Mixture (Form VI PEST-5)			✓	✓
	Individual Standard Mixture A (Form VI PEST-6)			✓	✓
	Individual Standard Mixture B (Form VI PEST-7)			✓	✓
	Calibration Verification Summary (Form VII PEST-1)			✓	✓
	Calibration Verification Summary (Form VII PEST-2)			✓	✓
	Analytical Sequence (Form VIII PEST)			✓	✓
	Florisil Cartridge Check (Form IX PEST-1)			✓	✓
	Pesticide GPC Calibration (Form IX PEST-2)			✓	✓
	Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)			✓	✓
	Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)			NA	N/A
	Chromatograms and data system printouts				
	A printout of retention times and corresponding peak areas or peak heights			✓	✓
d.	Raw QC Data				
	Blank Data	810	841	✓	✓
	Matrix Spike/Matrix Spike Duplicate Data	842	851	✓	✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 24517 SDG NO. FER94 SDG NOS. TO FOLLOW _____
SAS NO. _____

		PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6.	Pesticides (Cont.)				
	e. Raw GPC Data	852	897	✓	✓
	f. Raw Florisil Data	898	909	✓	✓
7.	Miscellaneous Data				
	Original preparation and analysis forms or copies of preparation and analysis logbook pages	910	939	✓	✓
	Internal sample and sample extract transfer chain-of-custody records	NA	NA	NA	NA
	Screening records				NA
	All instrument output, including strip charts from screening activities (describe or list)				
	_____				N/A
	_____				NA
8.	EPA Shipping/Receiving Documents				
	Airbills (No. of shipments 2)	940	942	✓	✓
	Chain-of-Custody Records	943	946	✓	✓
	Sample Tags			✓	✓
	Sample Log-In Sheet (Lab & DC1)	947	953	✓	✓
	Miscellaneous Shipping/Receiving Records (describe or list)				
	_____	NA	NA	NA	N/A
	_____				N/A
9.	Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	_____				N/A
	_____				N/A
10.	Other Records (describe or list)				
	Telephone Communication Log	954	956	✓	✓
	_____	NA	NA	NA	NA
	_____				NA

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 24517	SDG NO. FER94	SDG NOS. TO FOLLOW
	SAS NO.	

11. Comments: Sample tags & original GPC strip charts are shipped with this data package.

RD 050196

Completed by: (CLP Lab)	Robyn Darby (Signature)	Robyn J. Darby Data Clerk (Printed Name/Title)	5-1-96 (Date)
Verified by: (CLP Lab)	Virginia L Jones (Signature)	Virginia L Jones Document Control Officer (Printed Name/Title)	5/1/96 (Date)
Audited by: (EPA)	CA Carrington (Signature)	CA Carrington / Data Reviewer (Printed Name/Title)	5/8/96 (Date)

BOOKMARK

I. SDG NARRATIVE

SDG NARRATIVE

Laboratory Name: AATSLA, Baton Rouge

Case No: 24517
SDG No: FER94
Contract: 68-D5-0023

Fifteen soil samples were received between 28 and 29 March 1996 for Full Target Compound List organic analysis utilizing USEPA's CLP SOW OLM03.1 protocol. The samples are listed below in Table 1:

TABLE 1

EPA Sample Number:	EPA Sample Number:
FER34	FER94
FER35	FER95
FER39	FER97
FER40	FER98
FER41	FER99
FER90	FER99MS
FER91	FER99MSD
FER92	FES00
FER93	

Sample FES00 was received as "FER00" on the chain-of-custody. For added details, please see the "Traffic Report" section of this data package.

Volatile Organic Analysis:

In addition to the samples listed in Table 1, the following was also analyzed:

EPA Sample №:

FER40RE

Sample FER40 had internal standard area recoveries outside QC criteria for two analyses. Matrix effect is suspected. Both runs are submitted and therefore billable.

A 75 m x 0.53 mm ID with a 3 μm film DB-624 J&W capillary column was utilized. Also a 30.5 cm Supelco Purge Trap F consisting of 1 cm 3% SP-2100, 15 cm Tenax TA, and 7.7 cm Silica gel 15 was used.

No significant problems were encountered.

All manual integrations are represented by an "m" flag on the quantitative report. Included in the data package are graphic reports of any manual integrations which have been initialed and dated.

Semi-volatile Organic Analysis:

Listed below are alkane isomers found in the TIC search of the referenced sample:

	FER34	
Branched alkane		350 µg/Kg
Unknown alkane		270 µg/Kg
	FER35	
Branched alkane		420 µg/Kg
Branched alkane		500 µg/Kg
Unknown alkane		900 µg/Kg
Unknown alkane		2,800 µg/Kg
Cyclic alkane		700 µg/Kg
	FER39	
Branched alkane		440 µg/Kg
Branched alkane		150 µg/Kg
Unknown alkane		330 µg/Kg
Unknown alkane		3,300 µg/Kg
Unknown alkane		2,000 µg/Kg
Cyclic alkane		3,000 µg/Kg
	FER90	
Branched alkane		150 µg/Kg
Branched alkane		530 µg/Kg
Branched alkane		1,100 µg/Kg
	FER91	
Branched alkane		820 µg/Kg
	FER92	
Branched alkane		710 µg/Kg
	FES00	
Unknown alkane		2,000 µg/Kg
Unknown alkane		2,100 µg/Kg
Unknown alkane		1,300 µg/Kg

A 30m x 0.25 mm ID with a 0.25 μm film XTI-5 Restek capillary column was utilized.

No significant problems were encountered.

Manual integrations are represented by an "m" flag on the quantitative report. Included in the data package are graphic reports of any manual integrations which have been initialed and dated.

Pesticide/PCB Organic Analysis:

Columns used for Pesticide/PCB analysis were:

a. RTX-35, 0.53 mm ID, 30 m length
Restek Crossbonded® 65% dimethyl - 35% diphenyl polysiloxane, 1.5 micron thickness

b. DB-1701, 0.53 mm ID, 30 m length
Restek Crossbonded® 14% cyanopropylphenyl - 86% methyl polysiloxane, 1.5 micron thickness

Where manual integrations were performed, the modifications were dated and initialed.

"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 and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature."

Russell D. McNiece
GC/MS Supervisor
01 May 1996

RDM:vlj

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BOOKMARK

II. TRAFFIC REPORT

000005

AMERICAN ANALYTICAL & TECHNICAL SERVICES, INC.

April 3, 1996

Mrs. Christine Bennett
CLASS
USEPA
Contract Laboratory Program
P.O. Box 818
Alexandria, VA 22313

REF: Contract No. 68-D5-0023
Case No. 24517, SDG FER94

SUBJECT: Organic Traffic Report

Dear Mrs. Bennett:

Attached are the Organic Traffic Reports and the SDG TR Cover Sheet covering samples received March 28 and 29, 1996 from Region VI.

Sample FES00 was listed on the chain-of-custody as "FER00". However, the sample containers and sample tags all showed the sample I.D. to be "FES00". Attached is a copy of the telephone record log discussing this discrepancy.

If you have any questions, or need additional information, please call me at (504) 753-8650.

Sincerely yours,

Virginia L. Jones
Document Control Officer

:vlj

Attachments

11950 INDUSTRIPLEX BLVD. • BATON ROUGE, LA 70809 • OFFICE (504) 753-8650 • FAX (504) 751-1405

000006

AATS

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

Lab Name: American Analytical & Technical Services, Inc. Contract No.: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ - ___

Full Sample Analysis Price in Contract: $ 612.00

SDG No./First Sample in SDG: FER94 Sample Receipt Date: 03/28/96 (MM/DD/YY)
(Lowest EPA Sample Number in first shipment of samples received under SDG)

Last Sample in SDG: FES00 Sample Receipt Date: 03/29/96 (MM/DD/YY)
(Highest EPA Sample Number in last shipment of samples received under SDG)

EPA Sample Numbers in the SDG (listed in alphanumeric order):

1.	FER34	11.	FER95
2.	FER35	12.	FER97
3.	FER39	13.	FER98
4.	FER40	14.	FER99
5.	FER41	15.	FES00
6.	FER90	16.	
7.	FER91	17.	
8.	FER92	18.	
9.	FER93	19.	
10.	FER94	20.	

NOTE: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

Susan Stewart
Sample Custodian

April 3, 1996
Date

000007

In Reference to Case No(s):
24517

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 03/28/96

Laboratory Name: AATSLA
Lab Contact: Virginia L. Jones / Robyn Darby

~~Region~~: CLASS
Regional Contact: Jonathan Rude / Carol Shaffer

Call Initiated by: X Laboratory _____ Region

In reference to data for the following sample number(s):

FES00

Summary of Questions/Issues Discussed:

Sample was listed on chain-of-custody as FER00. However, the labels on the sample containers and the sample tags all indicated the sample ID was FES00.

Summary of Resolution:
Note in narrative call the sample FES00.

Virginia L Jones / Robyn Darby
Signature

4/3/96
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

6e

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000008

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable)

Case No. 24517

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 6
Sampling Co.: TNRCC
Sampler (Name): Gary Hazelwood
Sampler Signature: Gary Hazelwood

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 3/28/96
Carrier: Airborne
Airbill Number: 4343319175

5. Ship To: AATSLA, 11950 Industriplex Blvd., Baton Rouge, LA 70809
ATTN: Virginia Jones

6. Date Received -- Received by: 3/29/96 Susan Stewart
Laboratory Contract Number
Unit Price
7. Transfer to:
Date Received
Received by
Contract Number
Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER92	5	L	G	5	X				6-020837-38	SO-01	03/27/96/0921	MFGH44	GH			
FER93	5	L	G	5	X				6-020843-44	SO-02	03/27/96/0933	MFGH41	GH			
FER91	5	L	G	5	X				6-020849-50	SO-03	03/27/96/1048	MFGH45	GH			
FER90	5	L	G	5	X				6-020855-56	SO-04	03/27/96/1116	MFGH42	GH			
FER35	5	L	G	5	X				6-020861-62	SO-05	03/27/96/1358	MFGH46	GH			
FER34	5	L	G	5	X				6-020867-68	SO-06	03/27/96/1419	MFGH43	GH			
FER40	5	L	G	5	X				6-020873-74	SO-07	03/27/96/1440	MFGE00	GH			
FER41	5	L	G	5	X				6-020879-80	SO-08	03/27/96/1048	MFGD97	GH			
FER39	5	L	G	5	X				6-020885-86	SO-09	03/27/96/1018	MFGD99	GH			

Shipment for Case Complete? (Y/N) Y
Page 1 of 1
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures
Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Abigail Roy	03/28/96 1800				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Susan Stewart	Date / Time 3/29/96 0950	Remarks Is custody seal intact? Y/N/none	

A21-012-4 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

SDG # FE. 494 12/4/96

360355

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17

000009

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. Other (Specify in Column D)
N. Not preserved

2. Region No.: 6
Sampling Co.: TNRCC
4. Date Shipped: 3/28/96
Carrier: Airborne
6. Date Received – Received by: 3/29/96 Susan Stewart

Sampler (Name): Gary Hazelwood
Airbill Number: 4343319072
Laboratory Contract Number:
Unit Price:

Sampler Signature: Gary Hazelwood
5. Ship To: AATSLA, 11950 Industriplex Blvd, Baton Rouge, LA
ATTN: Virginia Jones
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER92	5	L	G	5		X	X		6-020839-40	SO-01	03/27/96 0921	MFGH44	GH			
FER93	5	L	G	5		X	X		6-020845-46	SO-02	03/27/96 0933	MFGH41	GH			
FER91	5	L	G	5		X	X		6-020851-52	SO-03	03/27/96 1048	MFGH45	GH			
FER90	5	L	G	5		X	X		6-020857-58	SO-04	03/27/96 1116	MFGH42	GH			
FER35	5	L	G	5		X	X		6-020863-64	SO-05	03/27/96 1358	MFGH46	GH			
FER34	5	L	G	5		X	X		6-020869-70	SO-06	03/27/96 1419	MFGH43	GH			
FER40	5	L	G	5		X	X		6-020875-76	SO-07	03/27/96 1440	MFGE00	GH			
FER41	5	L	G	5		X	X		6-020881-82	SO-08	03/27/96 1048	MFGD97	GH			
FER39	5	L	G	5		X	X		6-020887-88	SO-09	03/27/96 1018	MFGD97	GH			

Shipment for Case Complete? (Y/N) YES
Page 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Abigail Pong	3/28/96 1800				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Susan Stewart	3/29/96 0950		

A21-012-4 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

SDG # FER8494 3/4/96

36( )54

58

000010

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: 24017

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: 6
Sampling Co.: TNRCC
4. Date Shipped: 03/27/96
Carrier: Airborne
6. Date Received – Received by: 3/28/96 [signature]
Sampler (Name): Gary Hazelwood
Airbill Number: 4343319676
Laboratory Contract Number:
Unit Price:
Sampler Signature: [signature]
5. Ship To: American Analytical + Tech Serv (NATSLA) 11750 Industriplex Blvd. Baton Rouge, LA. 70809-5191 ATTN: Virginia Jones
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER99	5	L	G	5	X	X	X		6-020801-04	SE-01	[illegible]	MFGH39	GH			
FER97	5	L	G	5	X	X	X		6-020807-10	SE-02	[illegible]	MFGH40	GH			
FER00	5	L	G	5	X	X	X		6-020812-16	SE-03	[illegible]	MFGH36	GH			
											[illegible]					
FER95	5	L	G	5	X	X	X		6-020825-28	SE-05	[illegible]	MFGH37	GH			
FER94	5	L	G	5	X	X	X		6-020831-34	SE-06	[illegible]	MFGH38	GH			
FER98	5	L	G	5	X	X	X		6-020811-22	SE-04	[illegible]	MFGH35	GH			

Shipment for Case Complete? (Y/N): Y
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: FER99
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	03/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature]	Date / Time 3/28/96 1100	Remarks Is custody seal intact? Y/N/none	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO; EPA Form 9110-2

SDG# FER99 4/3/96
SDG Final Sample

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV.3/93

360[illegible]8

BOOKMARK

III. VOA DATA

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	FER34	107	92	82	0	0
02	FER35	103	88	115	0	0
03	FER39	102	91	102	0	0
04	FER40	96	81	118	0	0
05	FER40RE	120	76	115	0	0
06	FER41	101	90	118	0	0
07	FER90	102	95	101	0	0
08	FER91	105	89	120	0	0
09	FER92	115	73	115	0	0
10	FER93	109	80	117	0	0
11	FER94	102	95	90	0	0
12	FER95	102	91	95	0	0
13	FER97	100	97	93	0	0
14	FER98	100	96	87	0	0
15	FER99	103	96	87	0	0
16	FES00	104	94	91	0	0
17	VHBLK1E	98	99	113	0	0
18	FER99MS	99	100	90	0	0
19	FER99MSD	101	99	77	0	0
20	VBLK1D	100	98	78	0	0
21	VBLK1E	97	98	111	0	0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix Spike - EPA Sample No.: FER99 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	58.10	0	39.56	68	59-172
Trichloroethene	58.10	0	40.10	69	62-137
Benzene	58.10	0	41.67	72	66-142
Toluene	58.10	0	42.62	73	59-139
Chlorobenzene	58.10	0	40.67	70	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	58.10	48.86	84	21	22	59-172
Trichloroethene	58.10	48.50	83	18	24	62-137
Benzene	58.10	46.56	80	11	21	66-142
Toluene	58.10	50.59	87	18	21	59-139
Chlorobenzene	58.10	48.72	84	18	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1D

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: B2834 Lab Sample ID: VBLK1D

Date Analyzed: 03/30/96 Time Analyzed: 0906

GC Column: CAP ID: 0.530 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP1

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	FER34	1542701	B2854	1923
02	FER94	1541102	B2850	1729
03	FER95	1541103	B2843	1356
04	FER97	1541104	B2851	1759
05	FER98	1541105	B2852	1830
06	FER99	1541106	B2853	1856
07	FES00	1541101	B2849	1658
08	FER99MS	1541107MS	B2847	1557
09	FER99MSD	1541108MSD	B2848	1628

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1E

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: B2871 Lab Sample ID: VBLK1E

Date Analyzed: 03/31/96 Time Analyzed: 1113

GC Column: CAP ID: 0.530 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP1

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	FER35	1542702	B2872	1144
02	FER39	1542703	B2873	1215
03	FER40	1542704	B2874	1246
04	FER40RE	1542704RE	B2880	1617
05	FER41	1542705	B2875	1317
06	FER90	1542706	B2881	1648
07	FER91	1542707	B2882	1714
08	FER92	1542708	B2878	1449
09	FER93	1542709	B2879	1519
10	VHBLK1E	VHBLK1E	B2883	1740

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: ABFB0321 BFB Injection Date: 03/21/96

Instrument ID: HP1 BFB Injection Time: 1049

GC Column: CAP ID: 0.530(mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.6
75	30.0 - 66.0% of mass 95	39.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	63.7
175	4.0 - 9.0% of mass 174	3.6 (5.6)1
176	93.0 - 101.0% of mass 174	61.7 (96.8)1
177	5.0 - 9.0% of mass 176	4.3 (7.0)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2001R	VSTD2001R	B2627	03/21/96	1218
02	VSTD0201R	VSTD0201R	B2629	03/21/96	1311
03	VSTD0501R	VSTD0501R	B2630	03/21/96	1338
04	VSTD1001R	VSTD1001R	B2631	03/21/96	1404
05	VSTD0101R	VSTD0101R	B2632	03/21/96	1431

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: ABFB0330 BFB Injection Date: 03/30/96

Instrument ID: HP1 BFB Injection Time: 0723

GC Column: CAP ID: 0.530 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.8
75	30.0 - 66.0% of mass 95	40.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	63.4
175	4.0 - 9.0% of mass 174	4.9 (7.8)1
176	93.0 - 101.0% of mass 174	60.2 (95.0)1
177	5.0 - 9.0% of mass 176	4.1 (6.8)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501D	VSTD0501D	B2831	03/30/96	0740
02	VBLK1D	VBLK1D	B2834	03/30/96	0906
03	FER95	1541103	B2843	03/30/96	1356
04	FER99MS	1541107MS	B2847	03/30/96	1557
05	FER99MSD	1541108MSD	B2848	03/30/96	1628
06	FES00	1541101	B2849	03/30/96	1658
07	FER94	1541102	B2850	03/30/96	1729
08	FER97	1541104	B2851	03/30/96	1759
09	FER98	1541105	B2852	03/30/96	1830
10	FER99	1541106	B2853	03/30/96	1856
11	FER34	1542701	B2854	03/30/96	1923

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

000017

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: ABFB0331 BFB Injection Date: 03/31/96

Instrument ID: HP1 BFB Injection Time: 0641

GC Column: CAP ID: 0.530 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.0
75	30.0 - 66.0% of mass 95	38.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	64.2
175	4.0 - 9.0% of mass 174	5.1 (8.0)1
176	93.0 - 101.0% of mass 174	63.1 (98.3)1
177	5.0 - 9.0% of mass 176	4.0 (6.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501E	VSTD0501E	B2865	03/31/96	0751
02	VSTD2001E	VSTD2001E	B2866	03/31/96	0827
03	VSTD1001E	VSTD1001E	B2867	03/31/96	0853
04	VSTD0201E	VSTD0201E	B2868	03/31/96	0920
05	VSTD0101E	VSTD0101E	B2869	03/31/96	0947
06	VBLK1E	VBLK1E	B2871	03/31/96	1113
07	FER35	1542702	B2872	03/31/96	1144
08	FER39	1542703	B2873	03/31/96	1215
09	FER40	1542704	B2874	03/31/96	1246
10	FER41	1542705	B2875	03/31/96	1317
11	FER92	1542708	B2878	03/31/96	1449
12	FER93	1542709	B2879	03/31/96	1519
13	FER40RE	1542704RE	B2880	03/31/96	1617
14	FER90	1542706	B2881	03/31/96	1648
15	FER91	1542707	B2882	03/31/96	1714
16	VHBLK1E	VHBLK1E	B2883	03/31/96	1740

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID (Standard): B2831 Date Analyzed: 03/30/96

Instrument ID: HP1 Time Analyzed: 0740

GC Column: CAP ID: 0.530 (mm) Heated Purge: (Y/N) Y

		IS1 (BCM) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (CBZ) AREA	#	RT	#
	12 HOUR STD	210127		9.89		1056509		10.90		858282		14.19	
	UPPER LIMIT	420254		10.39		2113018		11.40		1716564		14.69	
	LOWER LIMIT	105064		9.39		528254		10.40		429141		13.69	
	EPA SAMPLE NO.												
01	FER34	160001		9.89		744455		10.92		573886		14.20	
02	FER94	168458		9.89		923120		10.92		737402		14.20	
03	FER95	184697		9.90		941765		10.94		768589		14.22	
04	FER97	173734		9.89		900689		10.92		751865		14.22	
05	FER98	182555		9.87		933903		10.92		761548		14.20	
06	FER99	195679		9.89		1092222		10.92		872919		14.20	
07	FES00	180448		9.90		1010432		10.92		797458		14.22	
08	FER99MS	194287		9.90		930729		10.94		787724		14.22	
09	FER99MSD	206767		9.90		1000376		10.94		841197		14.22	
10	VBLK1D	203576		9.92		1078027		10.95		900302		14.25	

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID (Standard): B2865 Date Analyzed: 03/31/96

Instrument ID: HP1 Time Analyzed: 0751

GC Column: CAP ID: 0.530 (mm) Heated Purge: (Y/N) Y

		IS1 (BCM) AREA	#	RT	#	IS2 (DFB) AREA	#	RT	#	IS3 (CBZ) AREA	#	RT	#
	12 HOUR STD	194277		9.87		1031487		10.90		814208		14.19	
	UPPER LIMIT	388554		10.37		2062974		11.40		1628416		14.69	
	LOWER LIMIT	97138		9.37		515744		10.40		407104		13.69	
	EPA SAMPLE NO.												
01	FER35	168236		9.87		807149		10.89		549725		14.19	
02	FER39	151147		9.87		687782		10.90		506782		14.19	
03	FER40	132534		9.90		529372		10.94		270315	*	14.20	
04	FER40RE	130240		9.87		548453		10.90		284777	*	14.19	
05	FER41	175148		9.90		804328		10.94		633885		14.22	
06	FER90	169302		9.87		853068		10.90		665269		14.19	
07	FER91	161409		9.87		796971		10.90		614260		14.20	
08	FER92	151943		9.90		718000		10.92		433855		14.20	
09	FER93	155800		9.90		732354		10.92		499271		14.20	
10	VHBLK1E	180154		9.89		822766		10.92		688088		14.22	
11	VBLK1E	208267		9.89		1065658		10.92		899799		14.19	

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000021 EPA SAMPLE NO.

FER34

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542701

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2854

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 25 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 19:23 000022

Data File: C:\033096A\B2854.D

Name: FER34 24

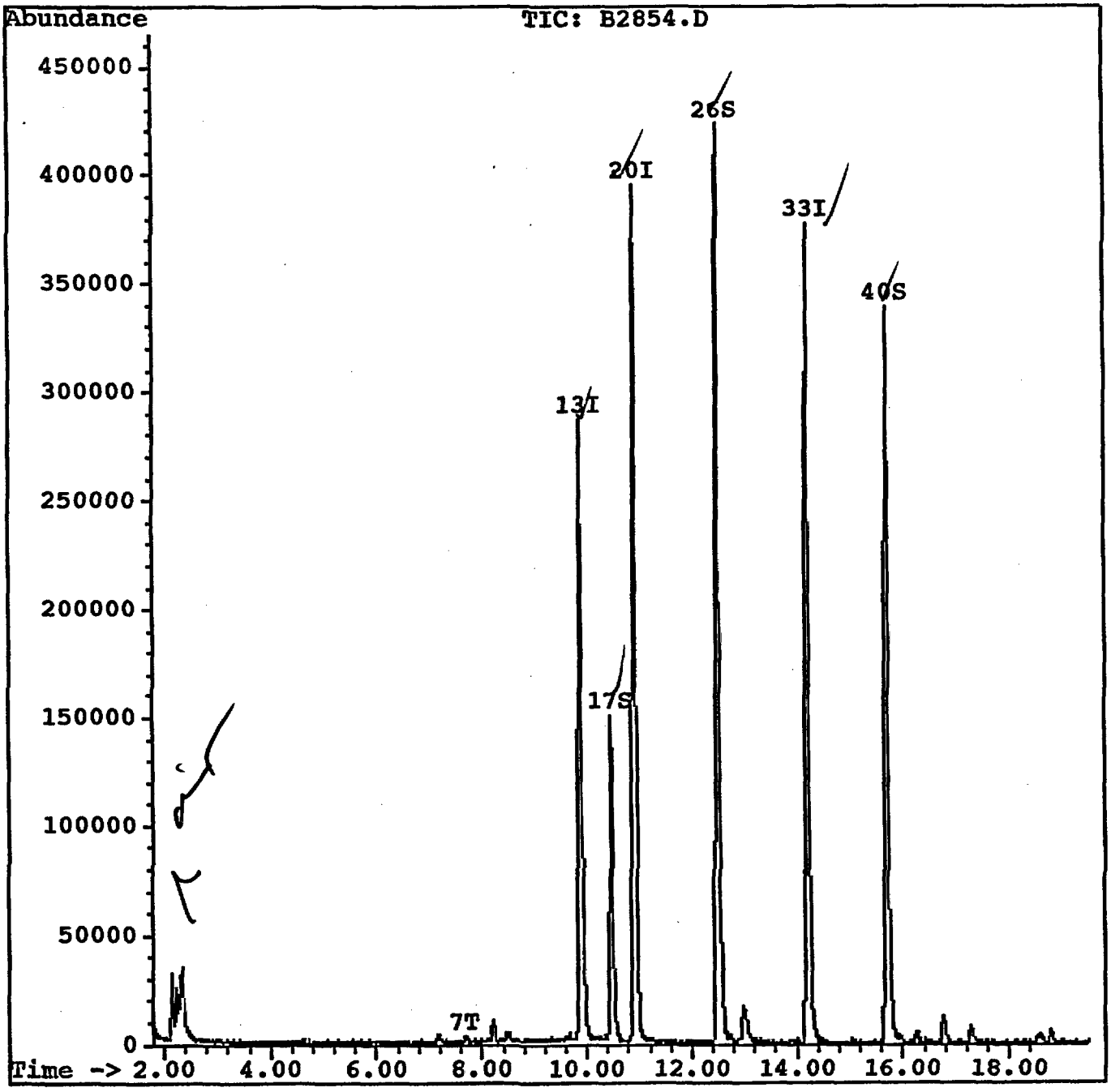
Misc: HP1*USEPA*15427.01*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 19:23

Data File: C:\033096A\B2854.D

000023

Name: FER34

24

Misc: HP1*USEPA*15427.01*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	160001	50.00	ug/L	0.01
20) CI10 1,4-Difluorobenzene	10.91	114	744455	50.00	ug/L	0.01
33) CI20 D5-Chlorobenzene	14.21	117	573886	50.00	ug/L	0.03
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.48	65	188315	40.85	ug/L	81.71% ✓
26) CS05 D8-Toluene SU2	12.50	98	707431	53.30	ug/L	106.60%
40) CS10 p-Bromofluorobenzene	15.71	95	393223	46.04	ug/L	92.07%
Target Compounds						ISTD#
~~7) C035 Acetone~~	~~7.68~~	~~43~~	~~8338~~	~~6.62~~	~~ug/L~~ FP	001#

FP = FALSE POSITIVE

(#) = qualifier out of range

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000025

EPA SAMPLE NO.

FER35

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542702

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2872

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 26 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 11:44 000026

Data File: C:\033196A\B2872.D

Name: FER35 19

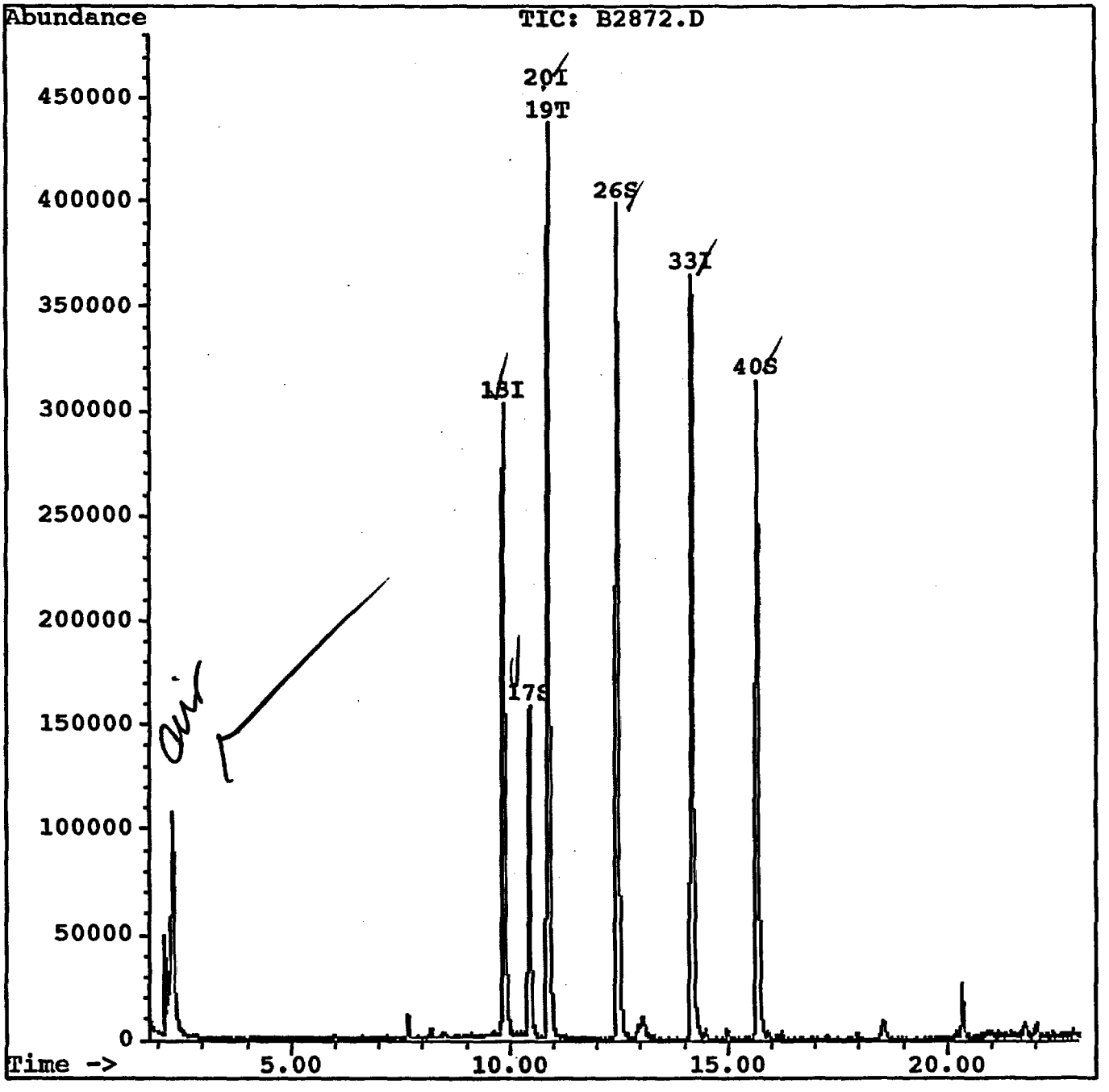
Misc: HP1*USEPA*15427.02*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 11:54:41 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 11:44

000027

Data File: C:\033196A\B2872.D

19

Name: FER35

Misc: HP1*USEPA*15427.02*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 11:54:41 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.86	128	168236	50.00	ug/L	-0.01
20) CI10 1,4-Difluorobenzene	10.89	114	807149	50.00	ug/L	-0.01
33) CI20 D5-Chlorobenzene	14.18	117	549725	50.00	ug/L	-0.01
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.46	65	200798	57.44	ug/L	114.87%
26) CS05 D8-Toluene SU2	12.47	98	664924	51.44	ug/L	102.88%
40) CS10 p-Bromofluorobenzene	15.67	95	361604	44.03	ug/L	88.06%
Target Compounds						ISTD#
~~19) C065 1,2-Dichloroethane-DC~~	~~10.89~~	~~62~~	~~25034~~	~~6.47~~	~~ug/L~~ FP	001#

FP = FALSE POSITIVE

(#) = qualifier out of range

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET **000029**

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FER39

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542703

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2873

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 18 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 12:15 000030

Data File: C:\033196A\B2873.D

Name: FER39 20

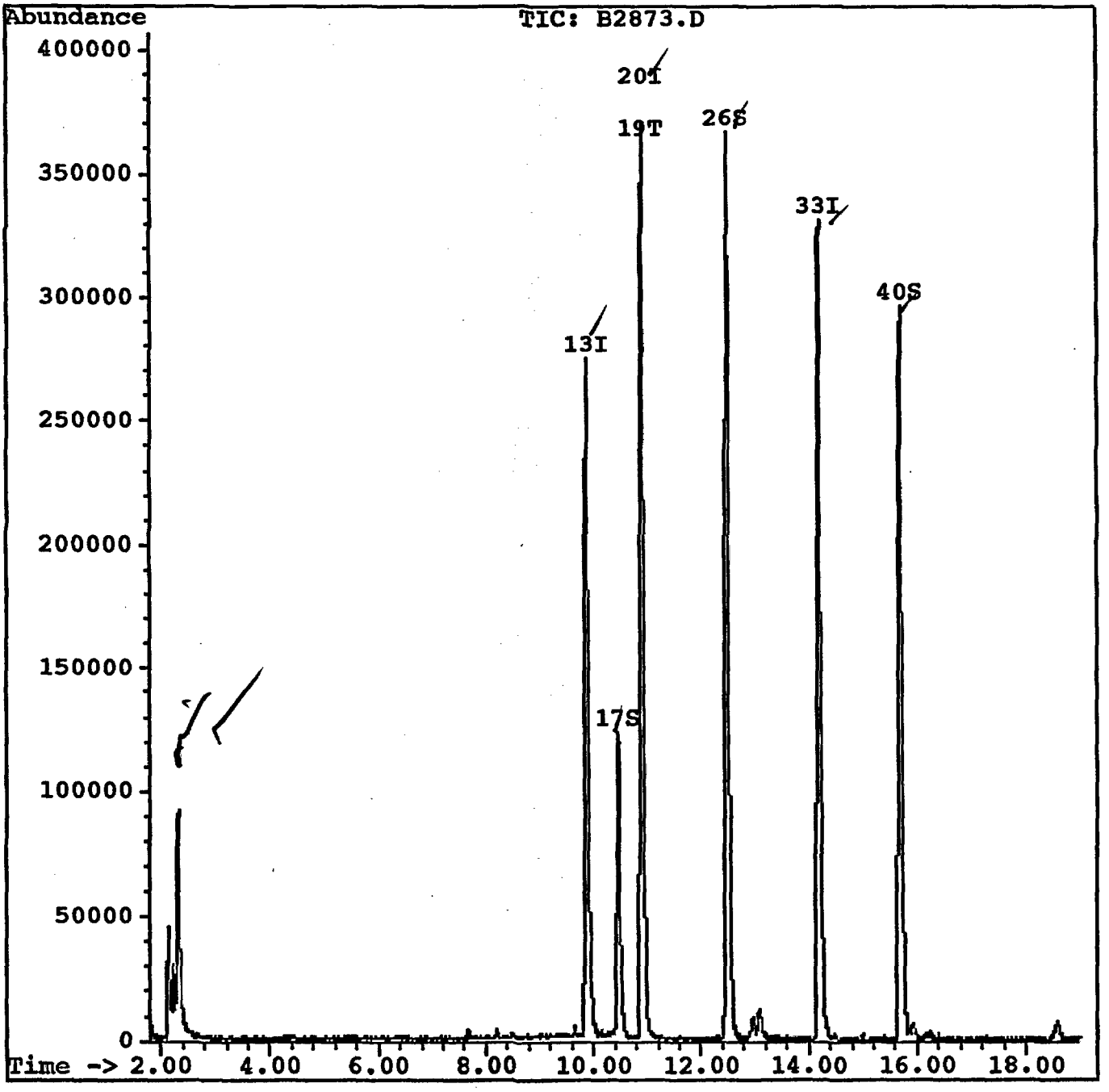
Misc: HP1*USEPA*15427.03*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 11:54:41 1996

Quantitated using Single Level Calibration



QUANT REPORT

000031

Operator ID: JR Date Acquired: 31 Mar 96 12:15

Data File: C:\033196A\B2873.D

Name: FER39 20

Misc: HP1*USEPA*15427.03*5g*MS317

Method: OLM03S1.M Inst: HP1

Title: OLM03.0 SOIL

Last Calibration: Sun Mar 31 11:54:41 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.87	128	151147	50.00	ug/L	-0.00
20) CI10 1,4-Difluorobenzene	10.90	114	687782	50.00	ug/L	0.00
33) CI20 D5-Chlorobenzene	14.19	117	506782	50.00	ug/L	-0.00
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.47	65	159612	50.82	ug/L	101.63%
26) CS05 D8-Toluene SU2	12.48	98	609326	51.13	ug/L	102.26%
40) CS10 p-Bromofluorobenzene	15.69	95	346197	45.73	ug/L	91.45%
Target Compounds						**ISTD#**
~~19) C065 1,2-Dichloroethane-DC~~	~~10.89~~	~~62~~	~~21010~~	~~6.04~~	~~ug/L~~	001#

FP=FALSE POSITIVE

(#) = qualifier out of range

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET **000033**
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FER40

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542704

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2874

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 26 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

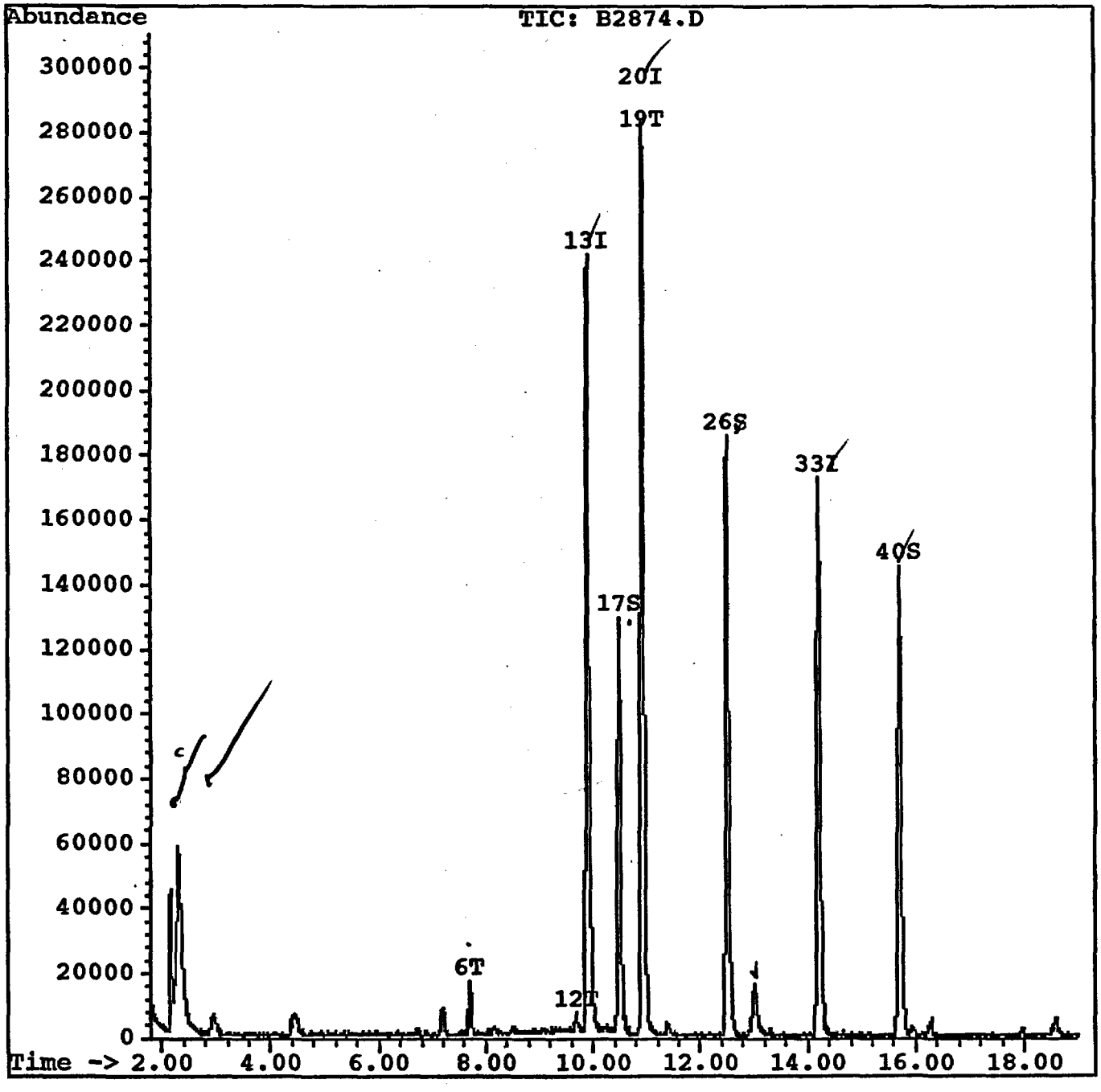
Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.00	10	J

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 12:46
Data File: C:\033196A\B2874.D
Name: FER40 21
Misc: HP1*USEPA*15427.04*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 11:54:41 1996
Quantitated using Single Level Calibration



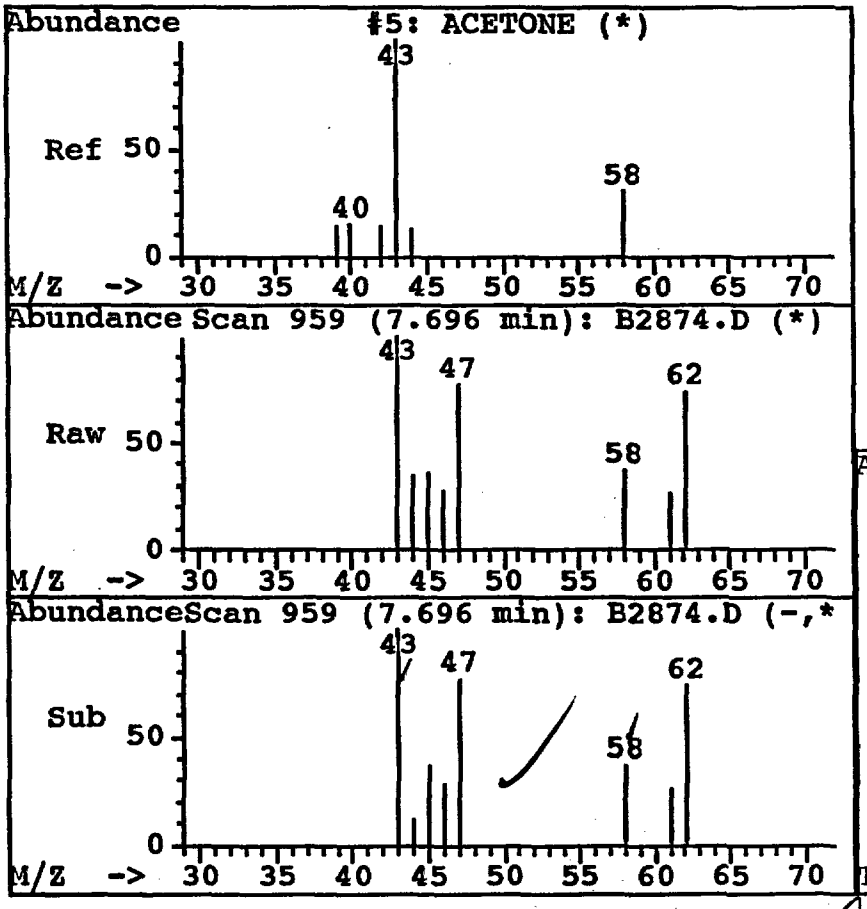
QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 12:46 000035
Data File: C:\033196A\B2874.D
Name: FER40 21
Misc: HP1*USEPA*15427.04*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 11:54:41 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.90	128	132534	50.00	ug/L	0.03
20) CI10 1,4-Difluorobenzene	10.93	114	529372	50.00	ug/L	0.03
33) CI20 D5-Chlorobenzene	14.20	117	270315	50.00	ug/L	0.01
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.49	65	161814	58.75	ug/L	117.51%
26) CS05 D8-Toluene SU2	12.50	98	303607	47.76	ug/L	95.53%
40) CS10 p-Bromofluorobenzene	15.70	95	164019	40.61	ug/L	81.23%
Target Compounds						ISTD#
6) C035 Acetone	7.70	43	18736	10.43	ug/L	001#
~~12) C110 2-Butanone~~	~~9.69~~	~~43~~	~~11391~~	~~4.71~~	~~ug/L~~ FP	001#
~~19) C065 1,2-Dichloroethane-DC~~	~~10.92~~	~~62~~	~~16534~~	~~5.42~~	~~ug/L~~	001#

FP = FALSE POSITIVE

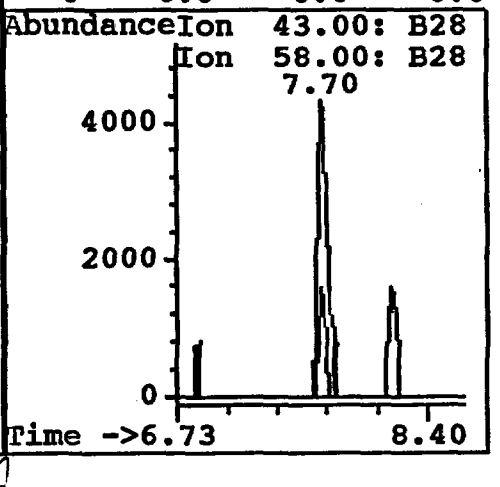
(#) = qualifier out of range

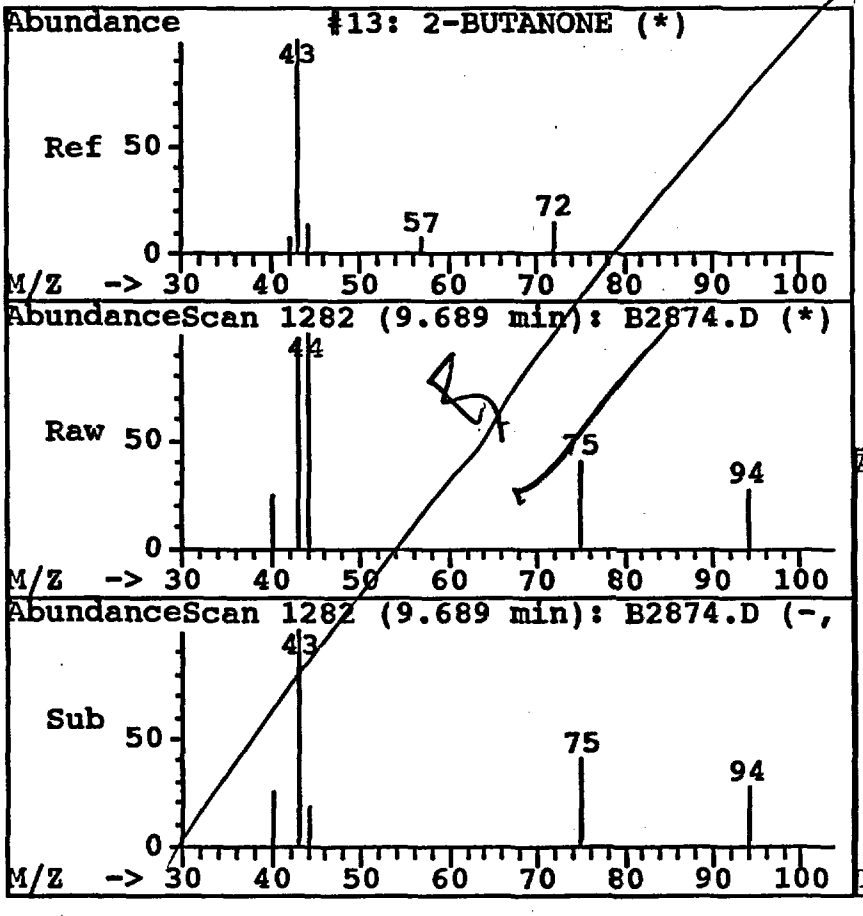


#6 Inst: HP1
C035 Acetone
Concen: 10.43 ug/L
RT: 7.70 min Scan# 959
Delta R.T. 0.02 min
Lab File: B2874.D
Acq: 31 Mar 96 12:46
FER40

Tgt Ion: 43 Area: 18736

Ion	Ratio	Lower	Upper
43	100		
58	24.7	26.4	39.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

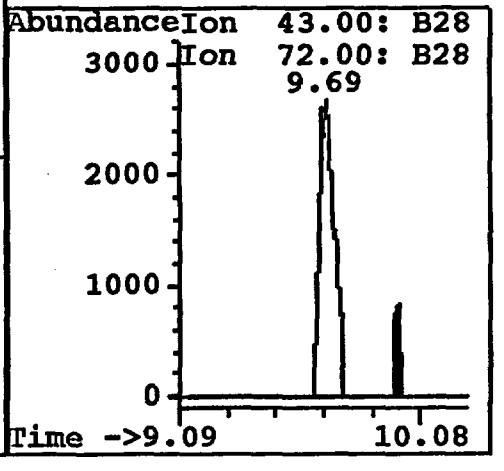




#12 Inst: HP1
C110 2-Butanone
Concen: 4.71 ug/L
RT: 9.69 min Scan# 1282
Delta R.T. 0.03 min
Lab File: B2874.D
Acq: 31 Mar 96 12:46
FER40

Tgt Ion: 43 Area: 11391

Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.0	30.0#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

000037

Operator ID: JR Date Acquired: 31 Mar 96 12:46

Data File: C:\033196A\B2874.D

Name: FER40 21

Misc: HP1*USEPA*15427.04*5g*MS317

Method: OLMO3S1.M Inst: HP1

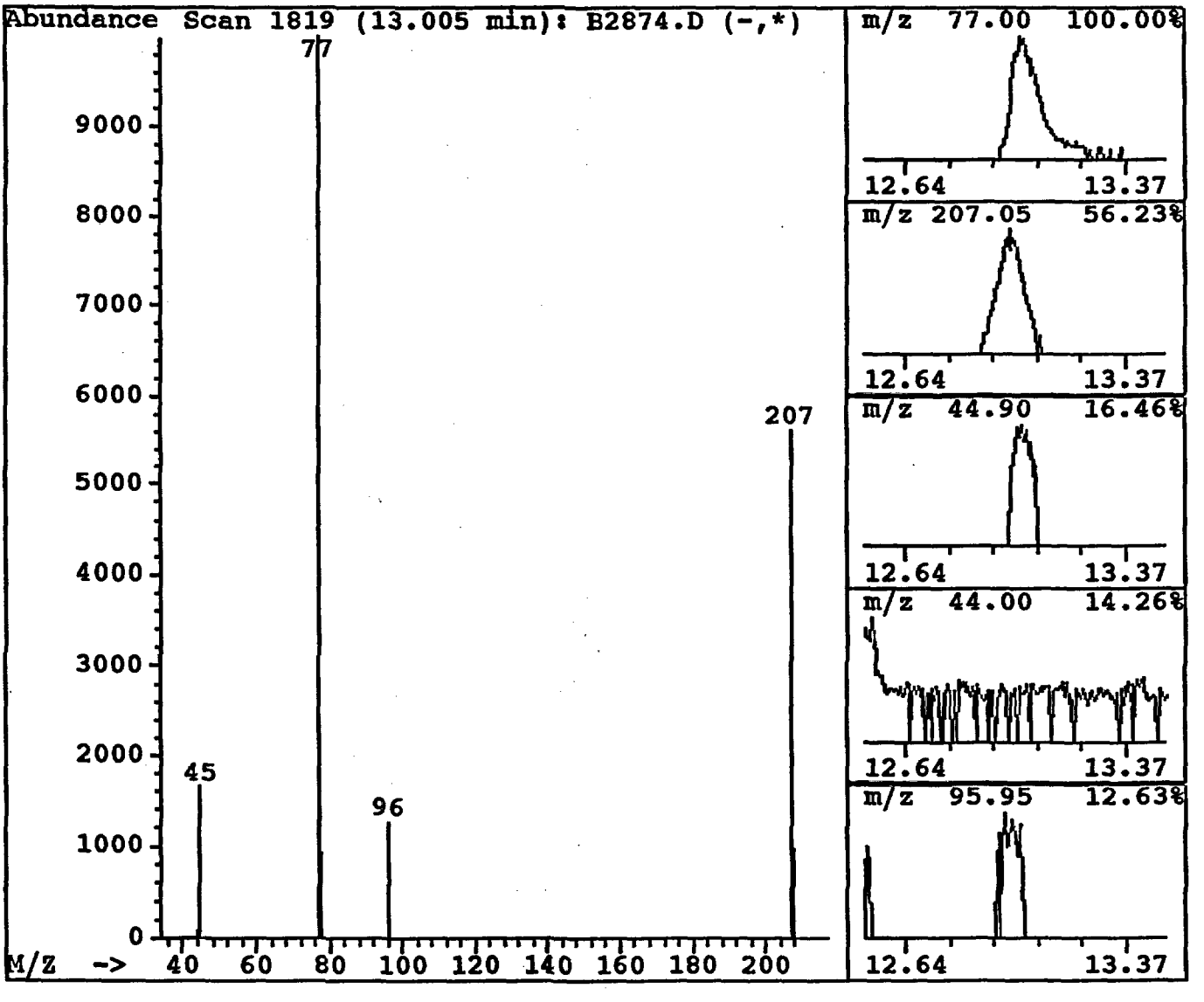
Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 11:54:41 1996

Library Searched: NBS75K.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.00	7.37 ug/L	112217	CI20 D5-Chlorobenzene	761779

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000039 EPA SAMPLE NO.

FER40RE

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542704RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2880

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 26 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

000040

Operator ID: JR Date Acquired: 31 Mar 96 16:17

Data File: C:\033196A\B2880.D

Name: FER40RE 21

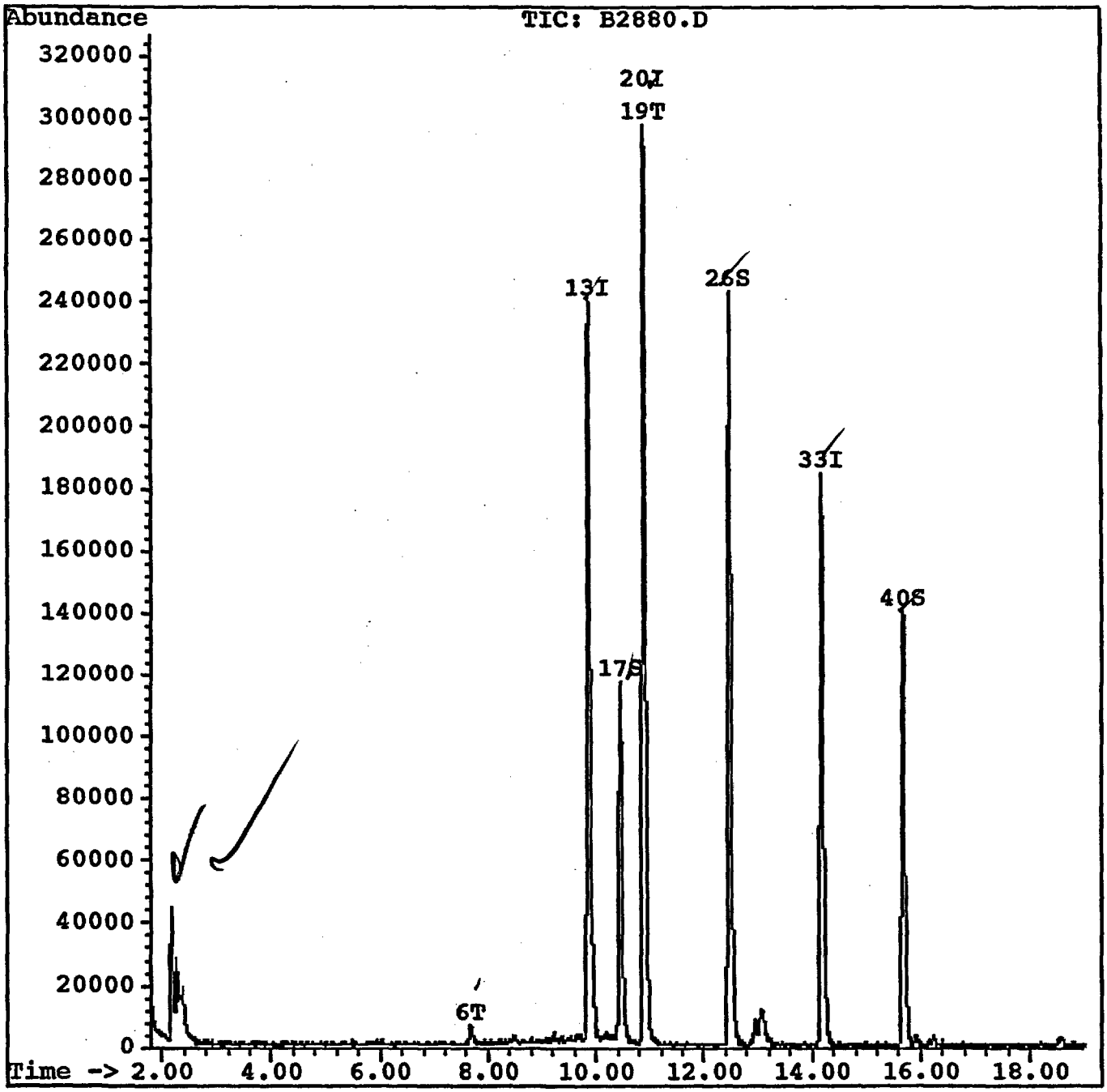
Misc: HP1*USEPA*15427.04*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 11:54:41 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 16:17

000041

Data File: C:\033196A\B2880.D

21

Name: FER40RE

Misc: HP1*USEPA*15427.04*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

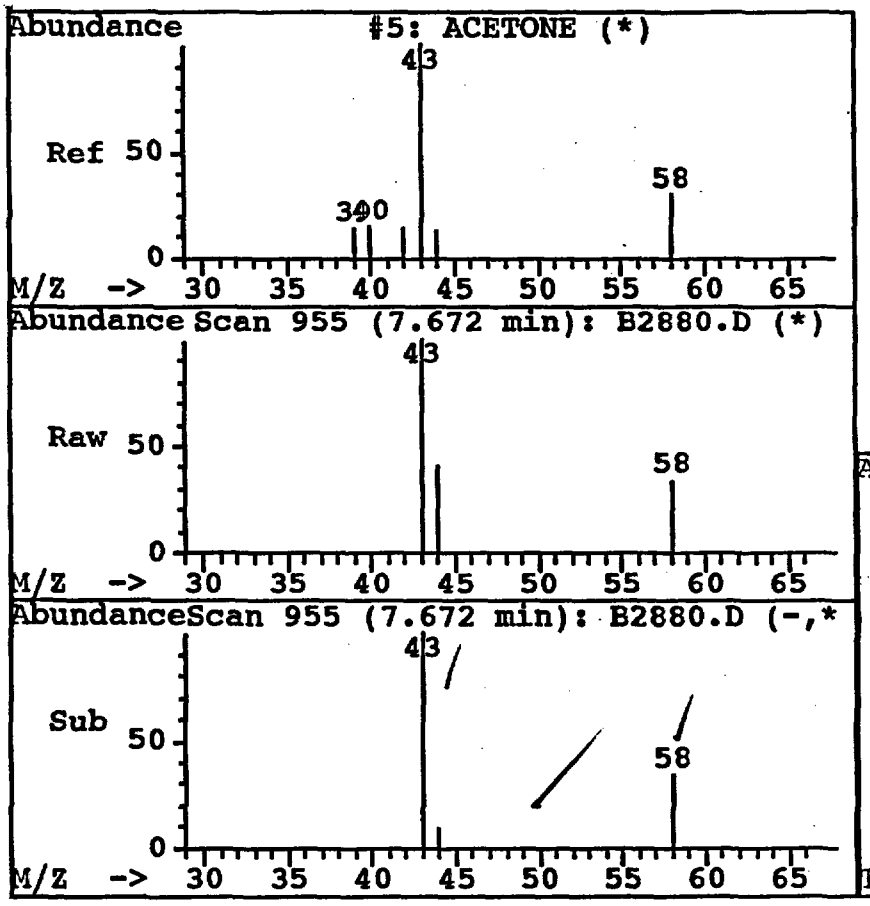
Last Calibration: Sun Mar 31 11:54:41 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.86	128	130240	50.00	ug/L	-0.01
20) CI10 1,4-Difluorobenzene	10.89	114	548453	50.00	ug/L	-0.01
33) CI20 D5-Chlorobenzene	14.18	117	284777	50.00	ug/L	-0.01
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.45	65	154960	57.26	ug/L	114.51%
26) CS05 D8-Toluene SU2	12.47	98	401843	60.01	ug/L	120.02%
40) CS10 p-Bromofluorobenzene	15.68	95	162322	38.15	ug/L	76.31%
Target Compounds						**ISTD#**
6) C035 Acetone	7.67	43	18423	10.44	ug/L	001#
~~19) C065 1,2-Dichloroethane-DC~~	~~10.90~~	~~62~~	~~17572~~	~~5.86~~	~~ug/L~~	001#

FP = FALSE POSITIVE

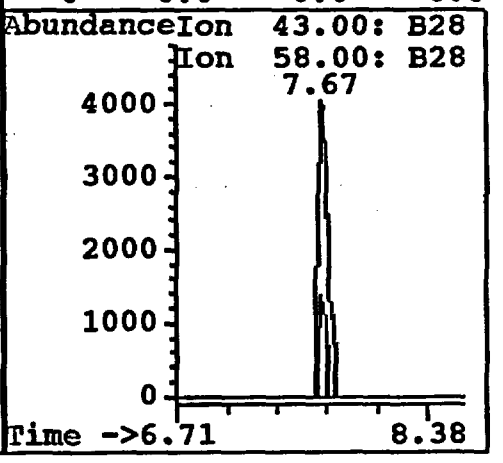
(#) = qualifier out of range

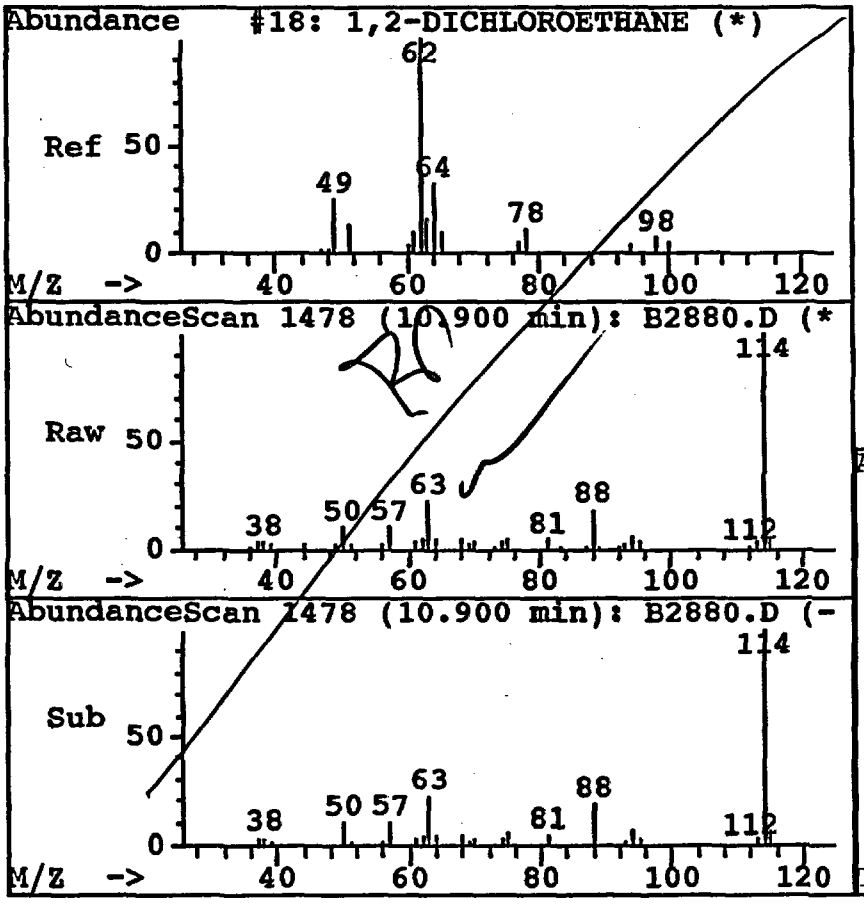


#6 Inst: HP1
C035 Acetone
Concen: 10.44 ug/L
RT: 7.67 min Scan# 955
Delta R.T. -0.00 min
Lab File: B2880.D
Acq: 31 Mar 96 16:17
FER40RE

Tgt Ion: 43 Area: 18423

Ion	Ratio	Lower	Upper
43	100		
58	21.6	26.4	39.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

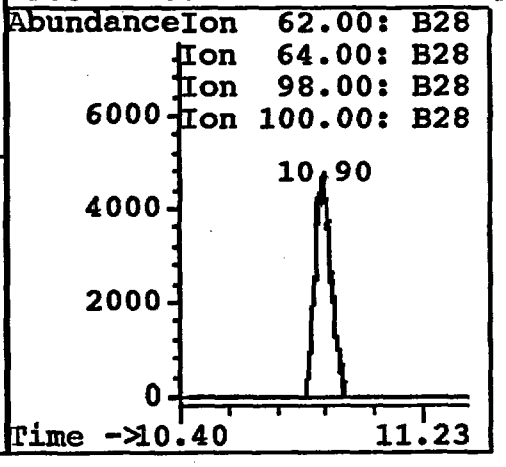




#19 Inst: HP1
C065 1,2-Dichloroethane-DCA
Concen: 5.86 ug/L
RT: 10.90 min Scan# 1478
Delta R.T. 0.36 min
Lab File: B2880.D
Acq: 31 Mar 96 16:17
FER40RE

Tgt Ion: 62 Area: 17572

Ion	Ratio	Lower	Upper
62	100		
64	104.0	25.4	38.0#
98	0.0	9.5	14.3#
100	0.0	3.4	5.0#



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000044 EPA SAMPLE NO.

FER41

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542705

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2875

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 14 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 13:17

Data File: C:\033196A\B2875.D

000045

Name: FER41

22

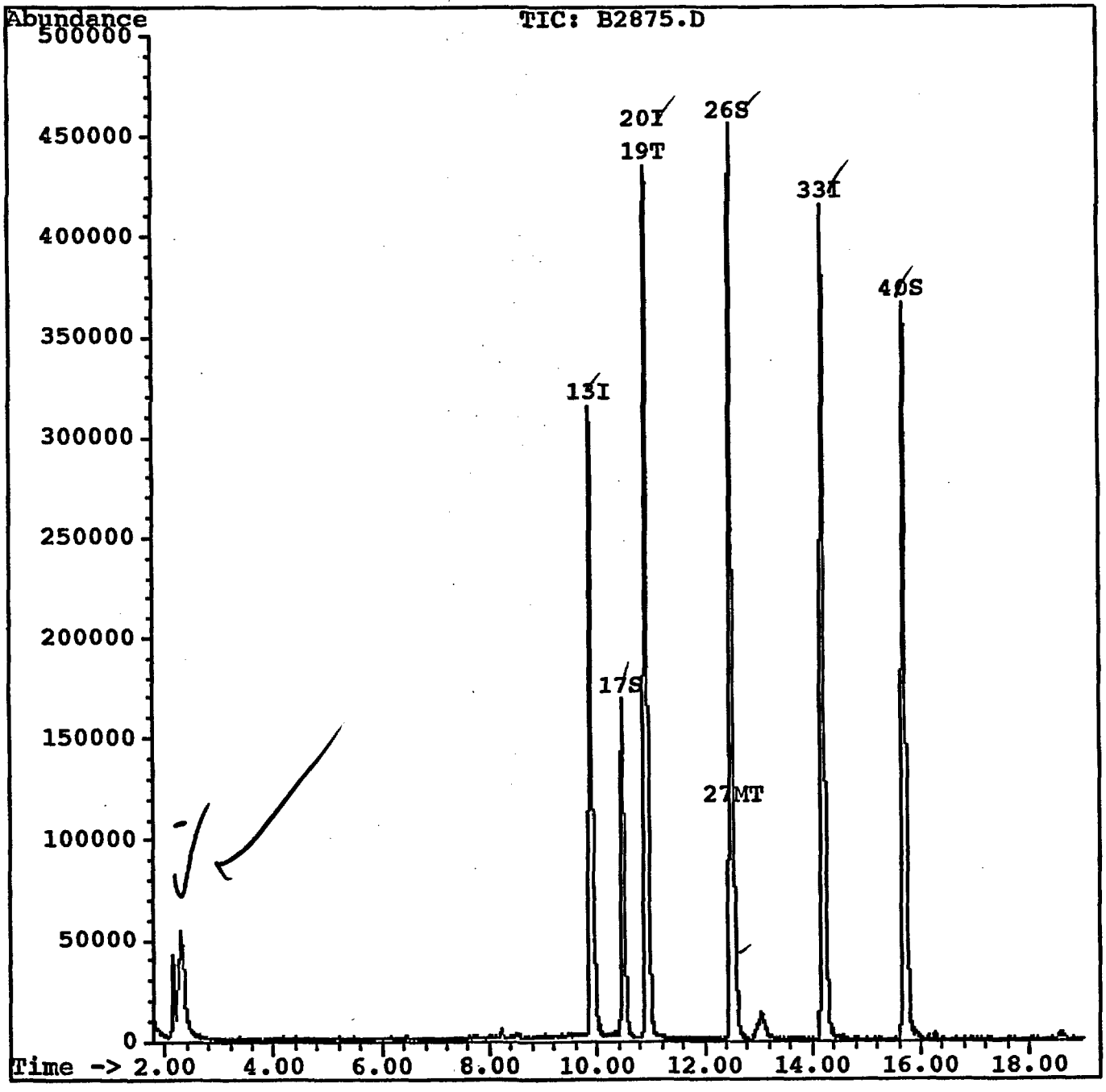
Misc: HP1*USEPA*15427.05*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 11:54:41 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 13:17

000046

Data File: C:\033196A\B2875.D

22

Name: FER41

Misc: HP1*USEPA*15427.05*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

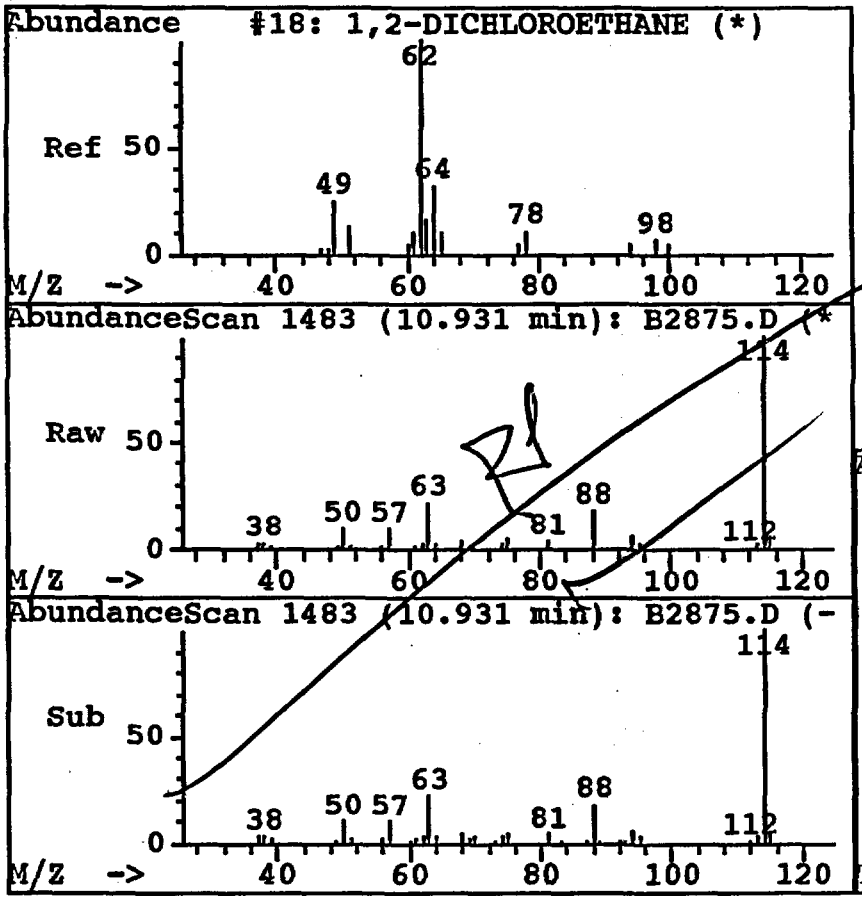
Last Calibration: Sun Mar 31 11:54:41 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	175148	50.00	ug/L	0.02
20) CI10 1,4-Difluorobenzene	10.93	114	804328	50.00	ug/L	0.02
33) CI20 D5-Chlorobenzene	14.21	117	633885	50.00	ug/L	0.02
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.48	65	214579	58.96	ug/L	117.91%
26) CS05 D8-Toluene SU2	12.51	98	754493	50.62	ug/L	101.24%
40) CS10 p-Bromofluorobenzene	15.70	95	426608	45.05	ug/L	90.10%
Target Compounds						ISTD#
~~19) C065 1,2-Dichloroethane-BC~~	~~10.93~~	~~62~~	~~24418~~	~~6.06~~	~~ug/L~~	~~001#~~
27) C230 Toluene	12.57	91	46465	2.93	ug/L	003

FP=FALSE POSITIVE

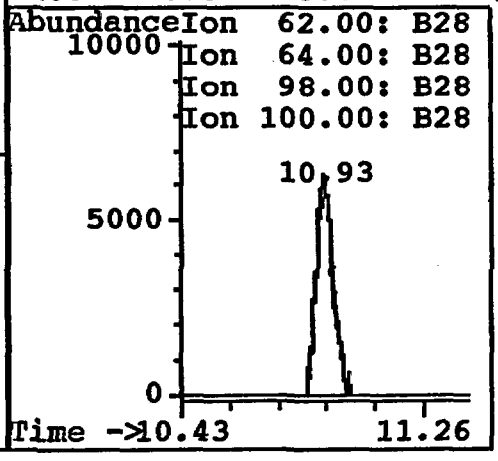
(#) = qualifier out of range

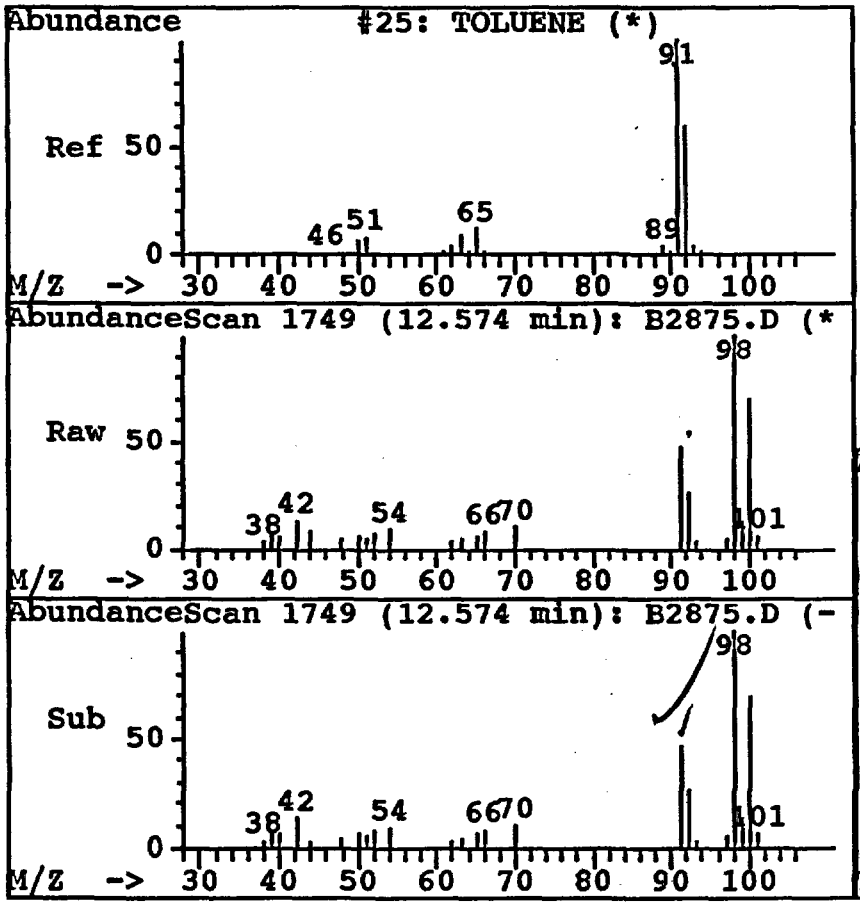


#19 Inst: HP1
C065 1,2-Dichloroethane-DCA
Concen: 6.06 ug/L
RT: 10.93 min Scan# 1483
Delta R.T. 0.39 min
Lab File: B2875.D
Acq: 31 Mar 96 13:17
FER41

Tgt Ion: 62 Area: 24418

Ion	Ratio	Lower	Upper
62	100		
64	105.5	25.4	38.0#
98	0.0	9.5	14.3#
100	0.0	3.4	5.0#

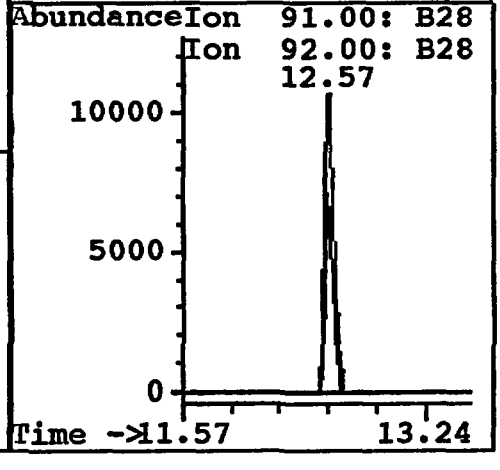




#27 Inst: HP1
C230 Toluene
Concen: 2.93 ug/L
RT: 12.57 min Scan# 1749
Delta R.T. 0.02 min
Lab File: B2875.D
Acq: 31 Mar 96 13:17
FER41

Tgt Ion: 91 Area: 46465

Ion	Ratio	Lower	Upper
91	100		
92	58.1	48.0	72.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: FER90

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542706

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2881

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 32 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 16:48

Data File: C:\033196A\B2881.D

Name: FER90RE 033196

Misc: HP1*USEPA*15427.06*5g*MS317

Method: OLMO3S1.M Inst: HP1

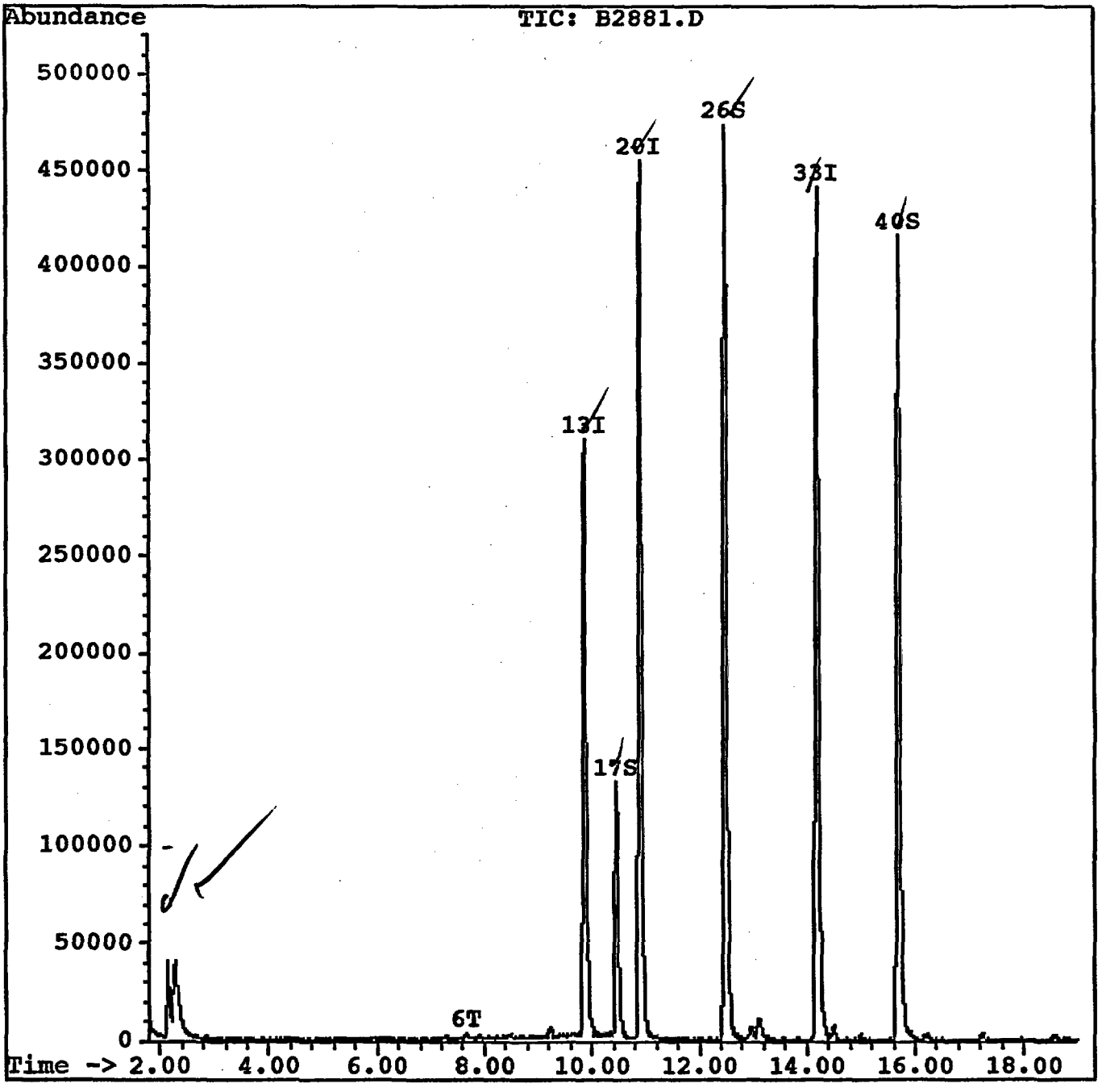
Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 16:46:05 1996

Quantitated using Single Level Calibration

000050

22



QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 16:48 **000051**

Data File: C:\033196A\B2881.D

Name: FER90RE 033196 22

Misc: HP1*USEPA*15427.06*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 16:46:05 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.86	128	169302	50.00	ug/L	-0.01
20) CI10 1,4-Difluorobenzene	10.89	114	853068	50.00	ug/L	-0.01
33) CI20 D5-Chlorobenzene	14.19	117	665269	50.00	ug/L	-0.00
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.46	65	178374	50.70	ug/L	101.40%
26) CS05 D8-Toluene SU2	12.48	98	799146	51.09	ug/L	102.17%
40) CS10 p-Bromofluorobenzene	15.69	95	473829	47.67	ug/L	95.35%
Target Compounds						**ISTD#**
6) ~~C035 Acetone~~	~~7.66~~	~~43~~	~~6655~~	~~2.90~~	~~ug/L~~ FP	001#

FP = FALSE POSITIVE

(#) = qualifier out of range

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET **000053**
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FER91

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542707

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2882

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 14 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 17:1 000054

Data File: C:\033196A\B2882.D

Name: FER91RE 4/4/13/96 23

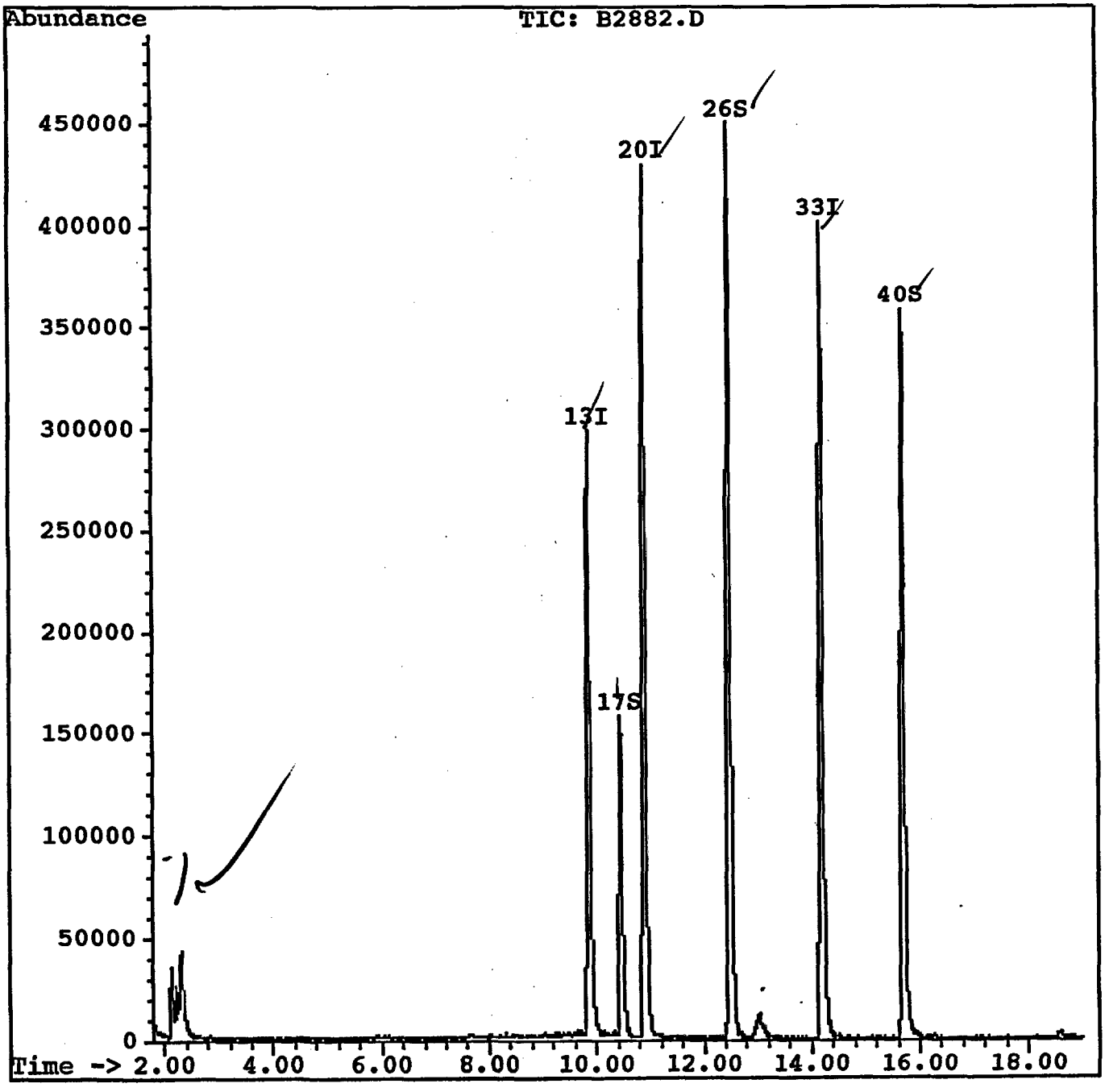
Misc: HP1*USEPA*15427.07*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 16:46:05 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 17:14

000055

Data File: C:\033196A\B2882.D

Name: FER91RE 4/4/96 23

Misc: HP1*USEPA*15427.07*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 16:46:05 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.87	128	161409	50.00	ug/L	-0.01
20) CI10 1,4-Difluorobenzene	10.90	114	796971	50.00	ug/L	0.00
33) CI20 D5-Chlorobenzene	14.20	117	614260	50.00	ug/L	0.01
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.46	65	200868	59.89	ug/L	119.77%
26) CS05 D8-Toluene SU2	12.49	98	759459	52.58	ug/L	105.16%
40) CS10 p-Bromofluorobenzene	15.71	95	409354	44.61	ug/L	89.22%
Target Compounds						**ISTD#**

(#) = qualifier out of range

1E

EPA SAMPLE NO.

FER92

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542708

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2878

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 18 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 14:49 000058

Data File: C:\033196A\B2878.D

Name: FER92 25

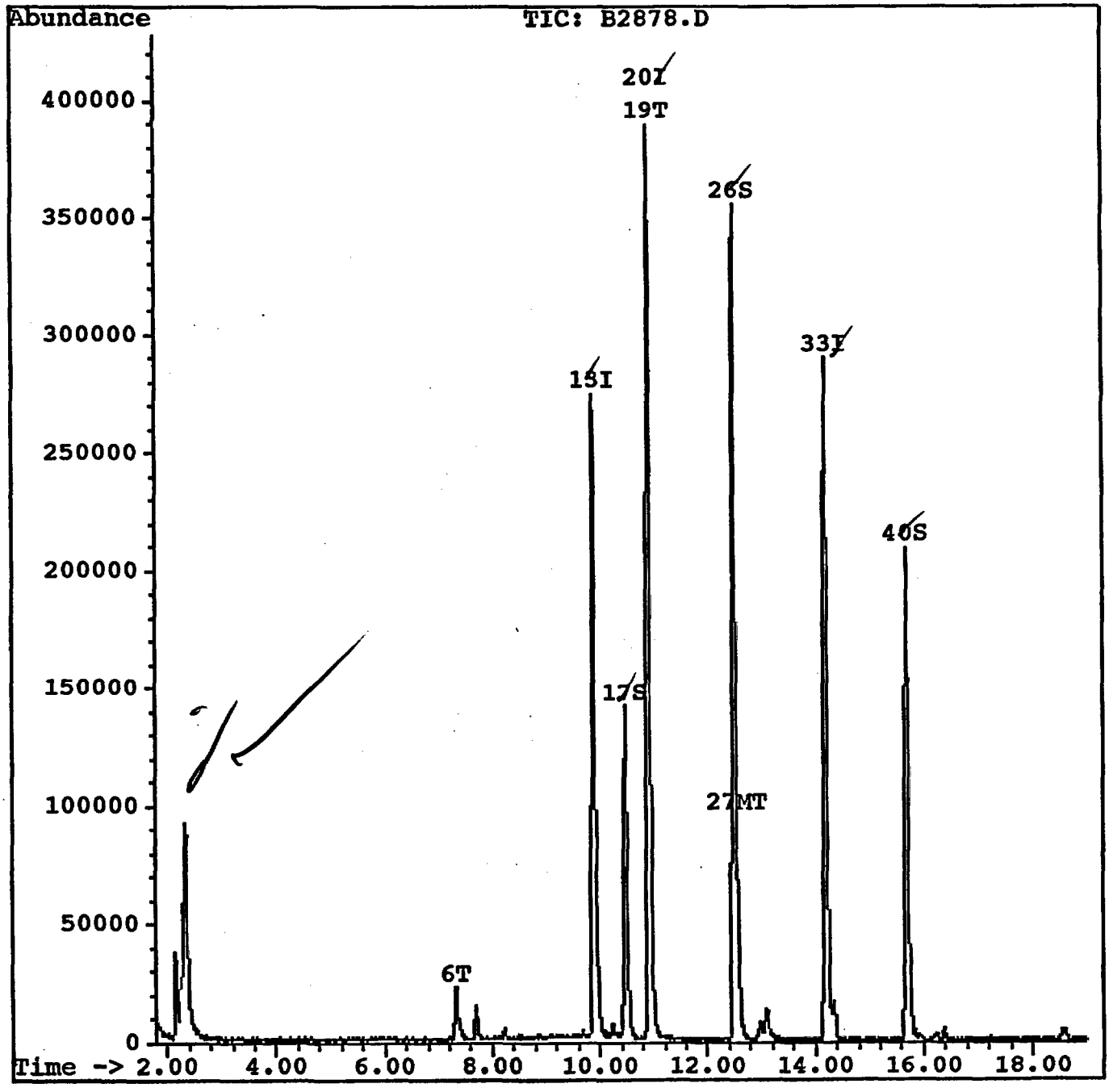
Misc: HP1*USEPA*15427.08*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 11:54:41 1996

Quantitated using Single Level Calibration



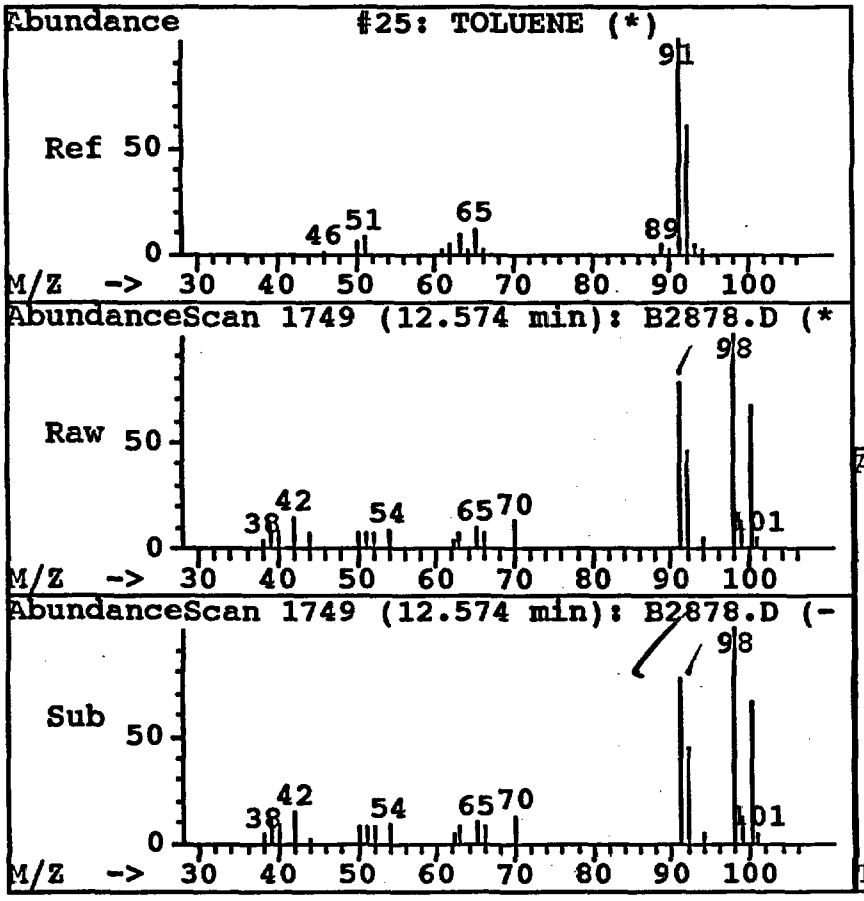
QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 14:49 000059
Data File: C:\033196A\B2878.D
Name: FER92 25
Misc: HP1*USEPA*15427.08*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 11:54:41 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	151943	50.00	ug/L	0.02
20) CI10 1,4-Difluorobenzene	10.92	114	718000	50.00	ug/L	0.02
33) CI20 D5-Chlorobenzene	14.20	117	433855	50.00	ug/L	0.01
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.48	65	181922	57.62	ug/L	115.23%
26) CS05 D8-Toluene SU2	12.51	98	587638	57.60	ug/L	115.20%
40) CS10 p-Bromofluorobenzene	15.70	95	236822	36.54	ug/L	73.08%
Target Compounds						ISTD#
6) ~~C035 Acetone~~	~~7.33~~	~~43~~	~~10614~~	~~5.15~~	~~ug/L~~ FP	001#
19) ~~C065 1,2-Dichloroethane-DC~~	~~10.92~~	~~62~~	~~21828~~	~~6.24~~	~~ug/L~~ FP	001#
27) C230 Toluene	12.57	91	56114	5.17	ug/L	003

FP = FALSE POSITIVE

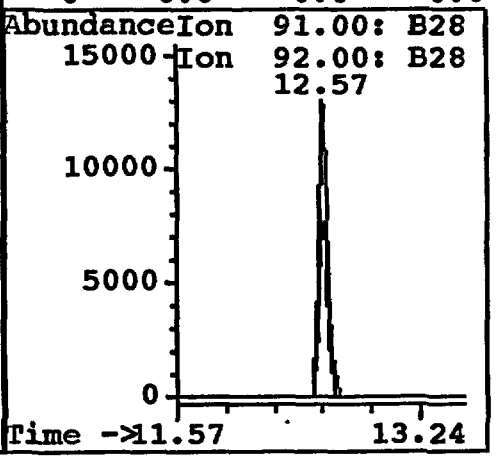
(#) = qualifier out of range



#27 Inst: HP1 **000060**
C230 Toluene
Concen: 5.17 ug/L
RT: 12.57 min Scan# 1749
Delta R.T. 0.02 min
Lab File: B2878.D
Acq: 31 Mar 96 14:49
FER92

Tgt Ion: 91 Area: 56114

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.0	72.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000062

EPA SAMPLE NO.

FER93

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542709

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2879

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: not dec. 20 Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 15:19

000063

Data File: C:\033196A\B2879.D

Name: FER93

26

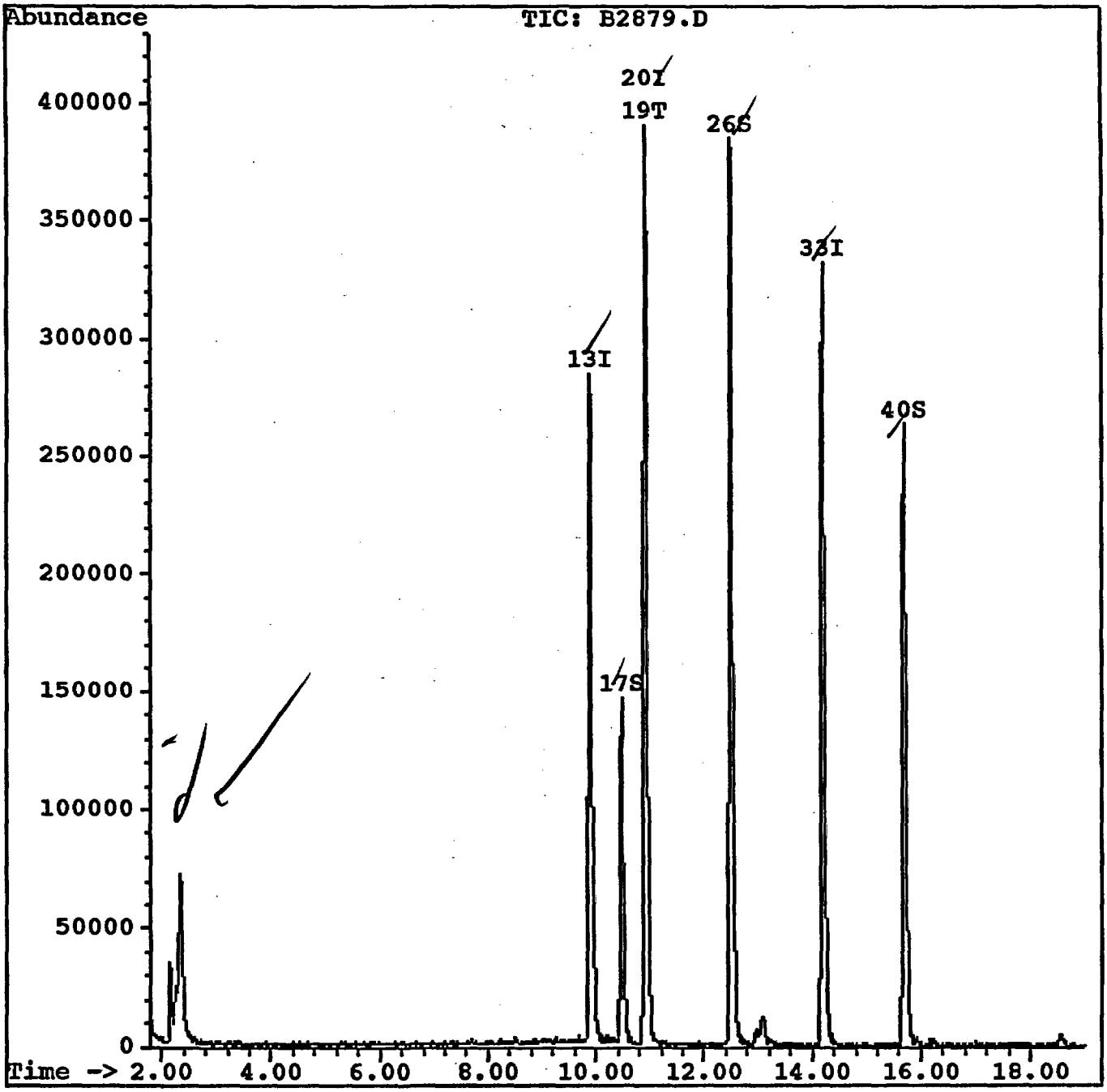
Misc: HP1*USEPA*15427.09*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sun Mar 31 11:54:41 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 15:19
Data File: C:\033196A\B2879.D
Name: FER93
Misc: HP1*USEPA*15427.09*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 11:54:41 1996
Quantitated using Single Level Calibration

000064

26

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	155800	50.00	ug/L	0.02
20) CI10 1,4-Difluorobenzene	10.92	114	732354	50.00	ug/L	0.02
33) CI20 D5-Chlorobenzene	14.20	117	499271	50.00	ug/L	0.01
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.48	65	189837	58.64	ug/L	117.27%
26) CS05 D8-Toluene SU2	12.50	98	638046	54.35	ug/L	108.70%
40) CS10 p-Bromofluorobenzene	15.69	95	297862	39.93	ug/L	79.87%
Target Compounds						**ISTD#**
19) C065 1,2-Dichloroethane-DC	10.91	62	22413	6.25	ug/L	001#

FP = FALSE POSITIVE

(#) = qualifier out of range

1E

EPA SAMPLE NO.

FER94

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541102

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2850

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 14 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

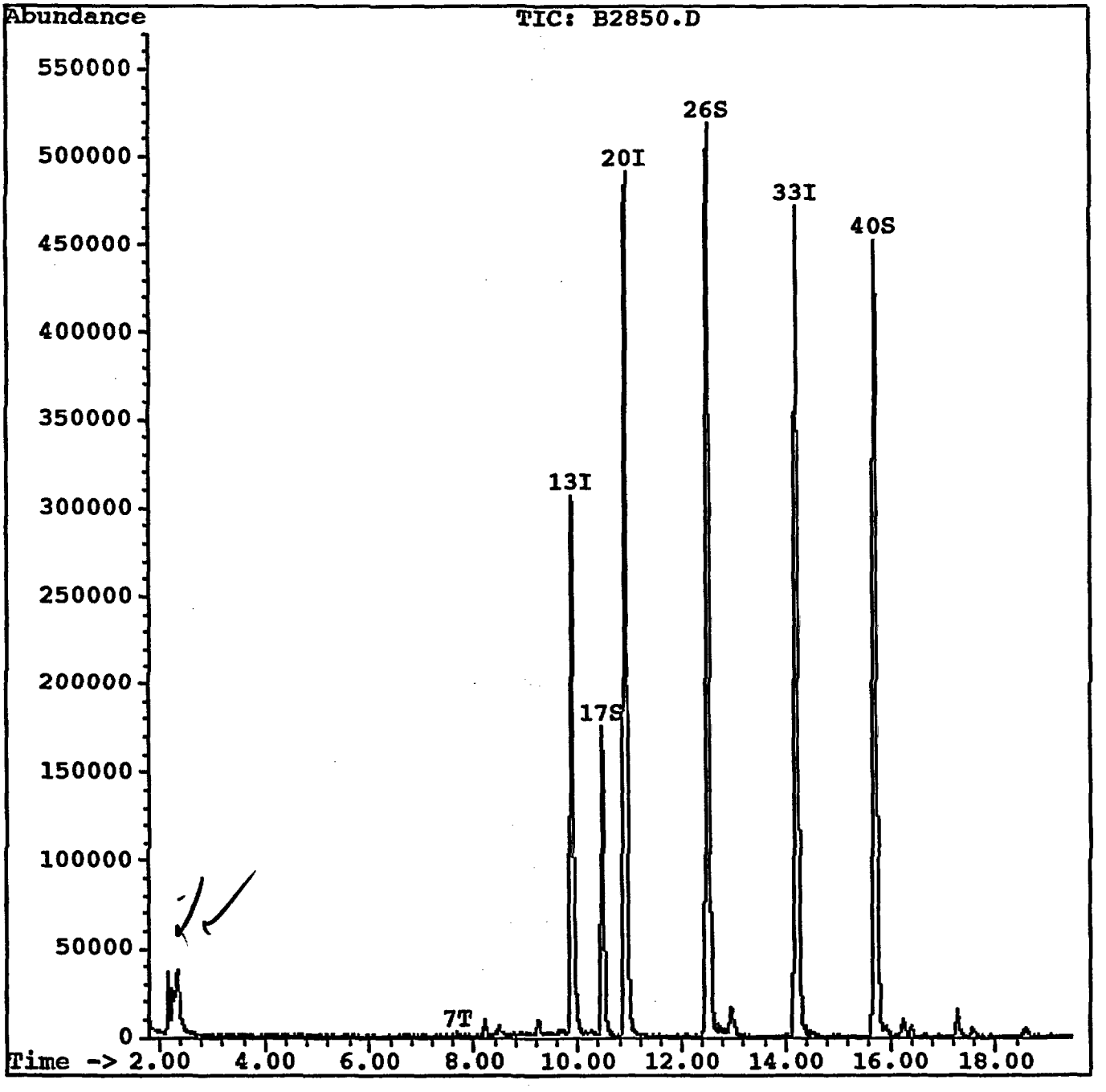
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 17:29
Data File: C:\033096A\B2850.D
Name: FER94 20
Misc: HP1*USEPA*15411.02*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:22:23 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 17:29 **000068**

Data File: C:\033096A\B2850.D

Name: FER94 20

Misc: HP1*USEPA*15411.02*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	168458	50.00	ug/L	0.01
20) CI10 1,4-Difluorobenzene	10.92	114	923120	50.00	ug/L	0.02
33) CI20 D5-Chlorobenzene	14.21	117	737402	50.00	ug/L	0.03
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.48	65	219467	45.22	ug/L	90.44%
26) CS05 D8-Toluene SU2	12.50	98	869694	51.00	ug/L	101.99% ✓
40) CS10 p-Bromofluorobenzene	15.71	95	519112	47.30	ug/L	94.60%
Target Compounds						**ISTD#**
~~7) C035 Acetone~~	~~7.68~~	~~43~~	~~5153~~	~~3.89~~	~~ug/L~~ FP	001#

FP = FALSE POSITIVE

(#) = qualifier out of range

1E

000070 EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FER95

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541103

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2843

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 14 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	58037-87-9	Bicyclo[3.1.0]hexane, 4-meth	15.32	140	JN
2.	80-56-8	.alpha.-Pinene	15.52	63	JN
3.	3387-41-5	Bicyclo[3.1.0]hexane, 4-meth	16.30	420	JN
4.	99-83-2	.alpha.-Phellandrene	16.80	29	JN
5.	99-86-5	1,3-Cyclohexadiene, 1-methyl	17.02	180	JN
6.	527-84-4	Benzene, 1-methyl-2-(1-methy	17.25	210	JN
7.	99-85-4	1,4-Cyclohexadiene, 1-methyl	17.67	320	JN
8.	586-62-9	Cyclohexene, 1-methyl-4-(1-m	18.18	110	JN

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 13:56 **000071**

Data File: C:\033096A\B2843.D

Name: FER95 21

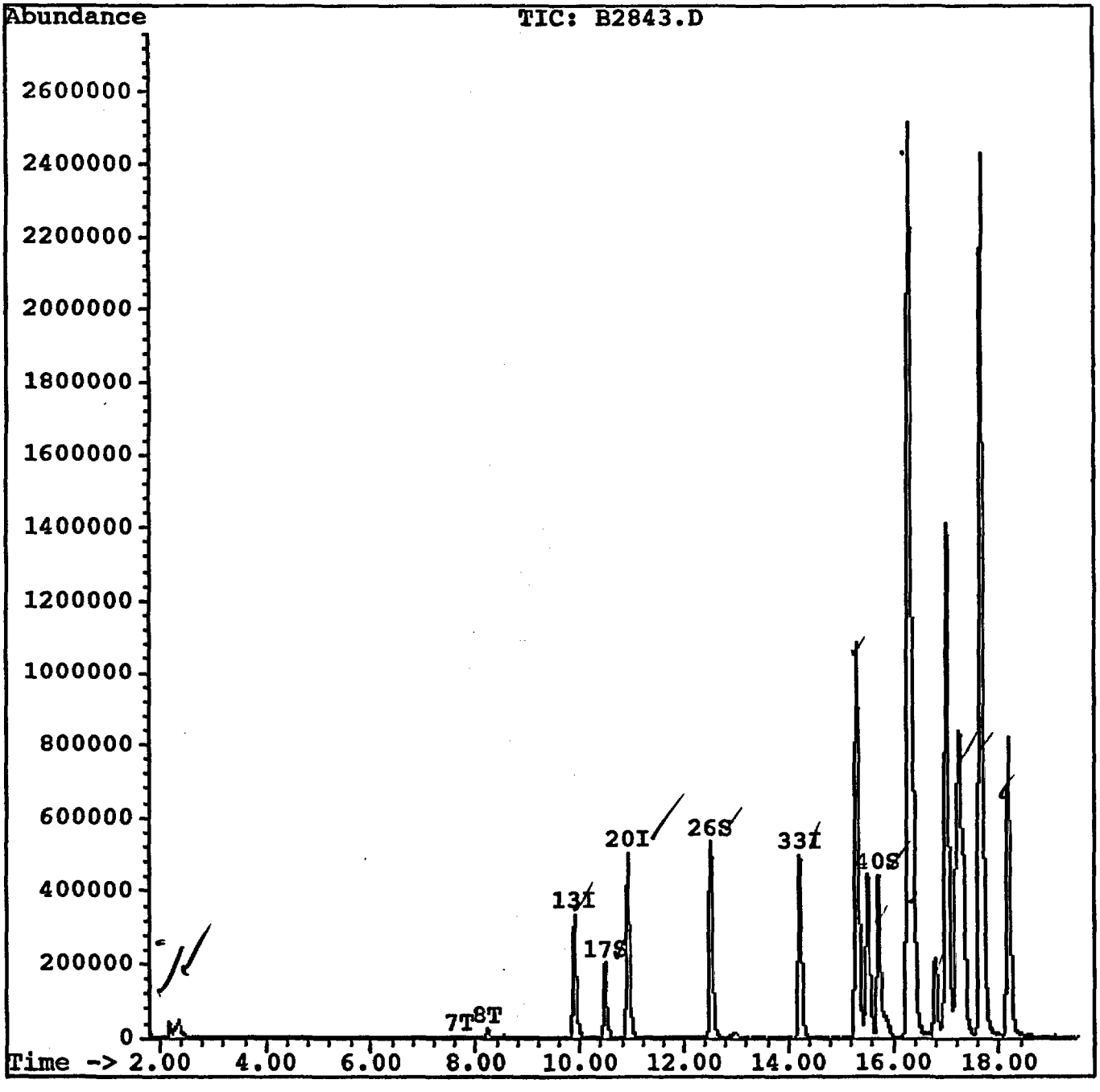
Misc: HP1*USEPA*15411.03*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 13:56

000072

Data File: C:\033096A\B2843.D

Name: FER95

21

Misc: HP1*USEPA*15411.03*5g*MS317

Method: OLMO3S1.M Inst: HP1

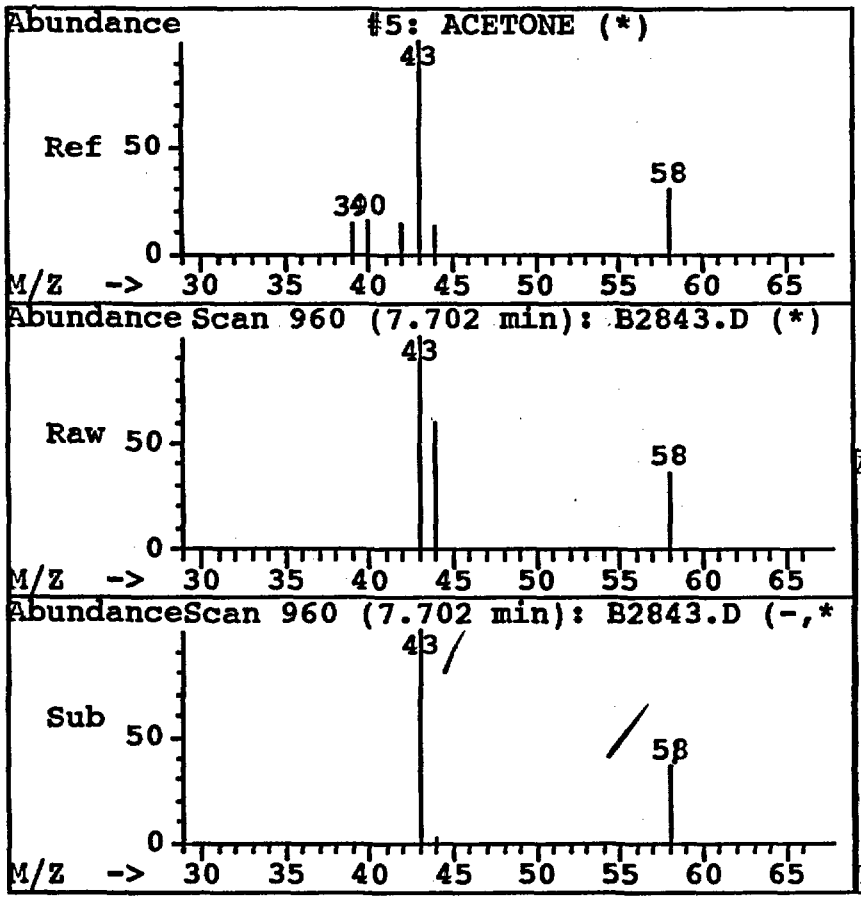
Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.90	128	184697	50.00	ug/L	0.02
20) CI10 1,4-Difluorobenzene	10.93	114	941765	50.00	ug/L	0.03
33) CI20 D5-Chlorobenzene	14.22	117	768589	50.00	ug/L	0.04
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.49	65	253457	47.63	ug/L	95.27%
26) CS05 D8-Toluene SU2	12.52	98	902492	50.77	ug/L	101.55%
40) CS10 p-Bromofluorobenzene	15.73	95	520728	45.52	ug/L	91.04%
Target Compounds						ISTD#
7) C035 Acetone	7.70	43	7951	5.47	ug/L	001#
8) C030 Methylene chloride	8.23	84	20855	3.37	ug/L	001#

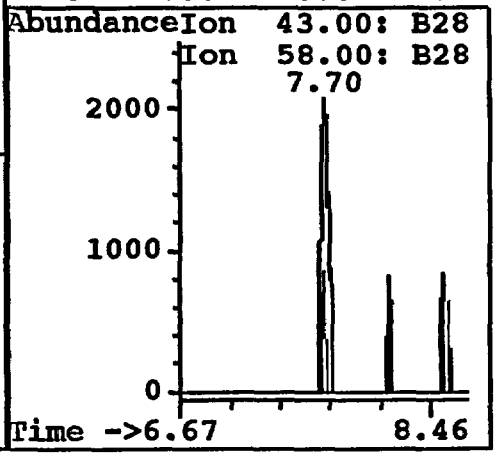
(#) = qualifier out of range

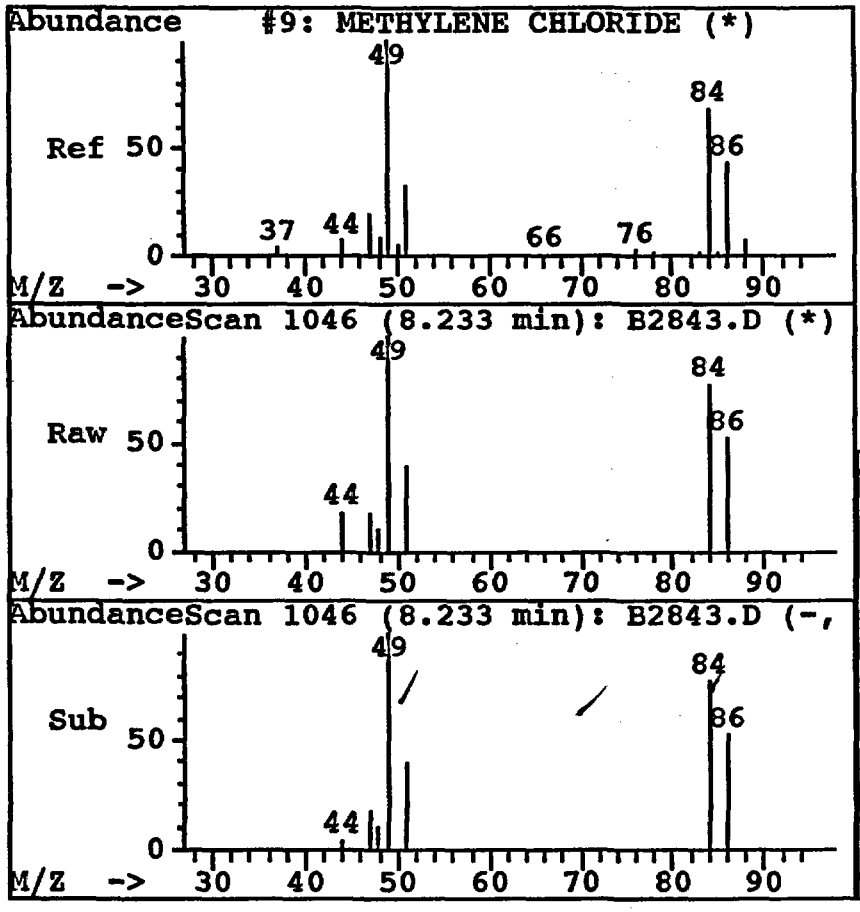


#7 Inst: HP1
C035 Acetone
Concen: 5.47 ug/L
RT: 7.70 min Scan# 960
Delta R.T. -0.10 min
Lab File: B2843.D
Acq: 30 Mar 96 13:56
FER95

Tgt Ion: 43 Area: 7951

Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.4	39.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

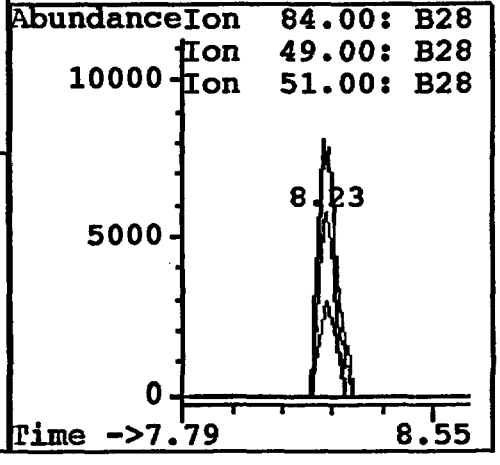




#8 Inst: HP1
C030 Methylene chloride
Concen: 3.37 ug/L
RT: 8.23 min Scan# 1046
Delta R.T. 0.01 min
Lab File: B2843.D
Acq: 30 Mar 96 13:56
FER95

Tgt Ion: 84 Area: 20855

Ion	Ratio	Lower	Upper
84	100		
49	144.9	97.8	146.6
51	48.6	30.0	45.0#
0	0.0	0.0	0.0



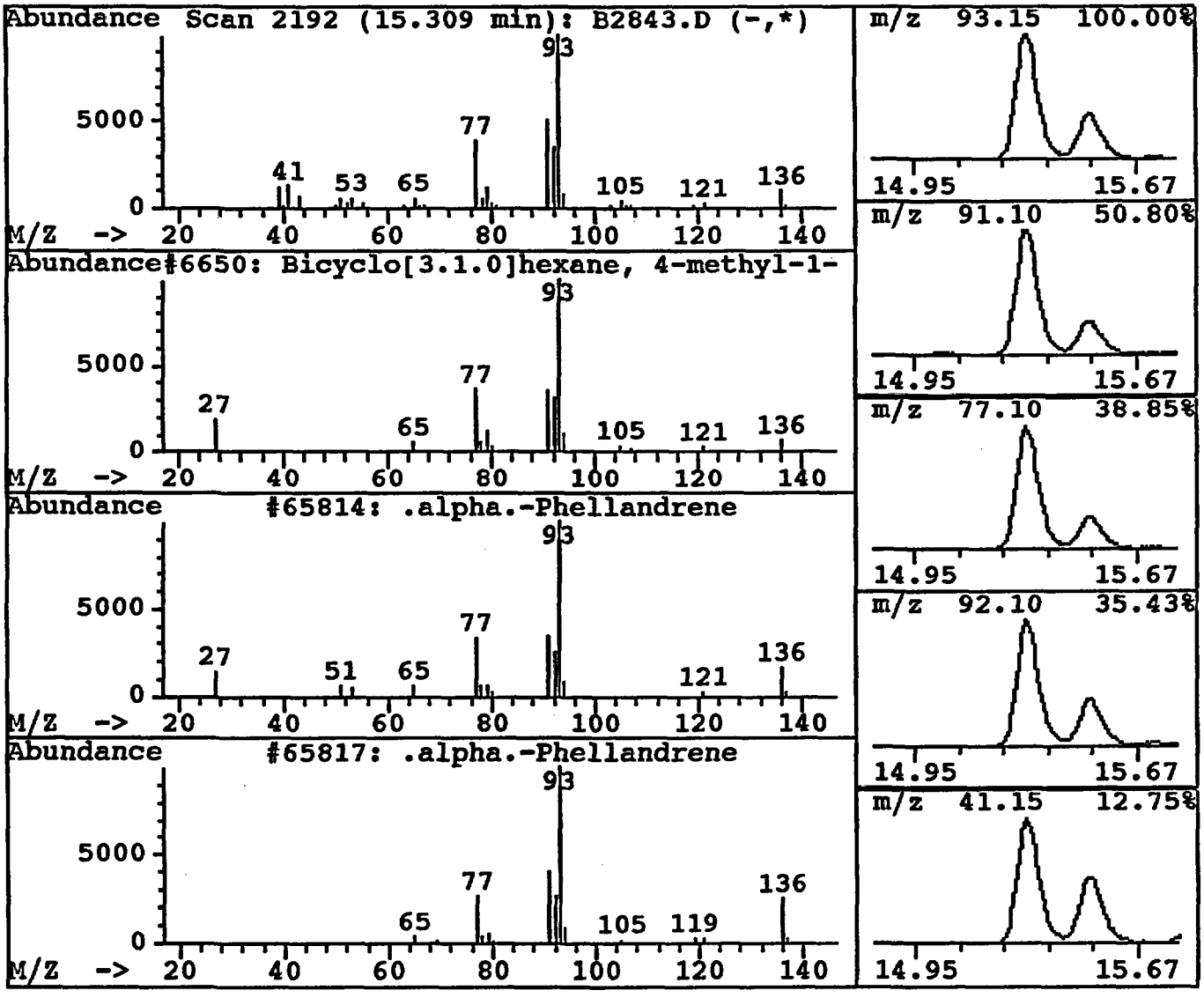
Tentatively Identified Compound (LSC) 000074

Operator ID: JR Date Acquired: 30 Mar 96 13:56
Data File: C:\033096A\B2843.D
Name: FER95 21
Misc: HP1*USEPA*15411.03*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:22:23 1996

Library Searched: NBS75K.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.31	122.69 ug/L	5434876	CI20 D5-Chlorobenzene	2214944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.0]hexane, 4-methyl-1-(1	6650	058037-87-9	94
2	.alpha.-Phellandrene	65814	000099-83-2	91
3	.alpha.-Phellandrene	65817	000099-83-2	90
4	Bicyclo[3.1.0]hex-2-ene, 2-methyl-5	6646	002867-05-2	87
5	.alpha.-Phellandrene	65818	000099-83-2	87



Tentatively Identified Compound (LSC)

Operator ID: JR Date Acquired: 30 Mar 96 13:56

000075

Data File: C:\033096A\B2843.D

Name: FER95 21

Misc: HP1*USEPA*15411.03*5g*MS317

Method: OLMO3S1.M Inst: HP1

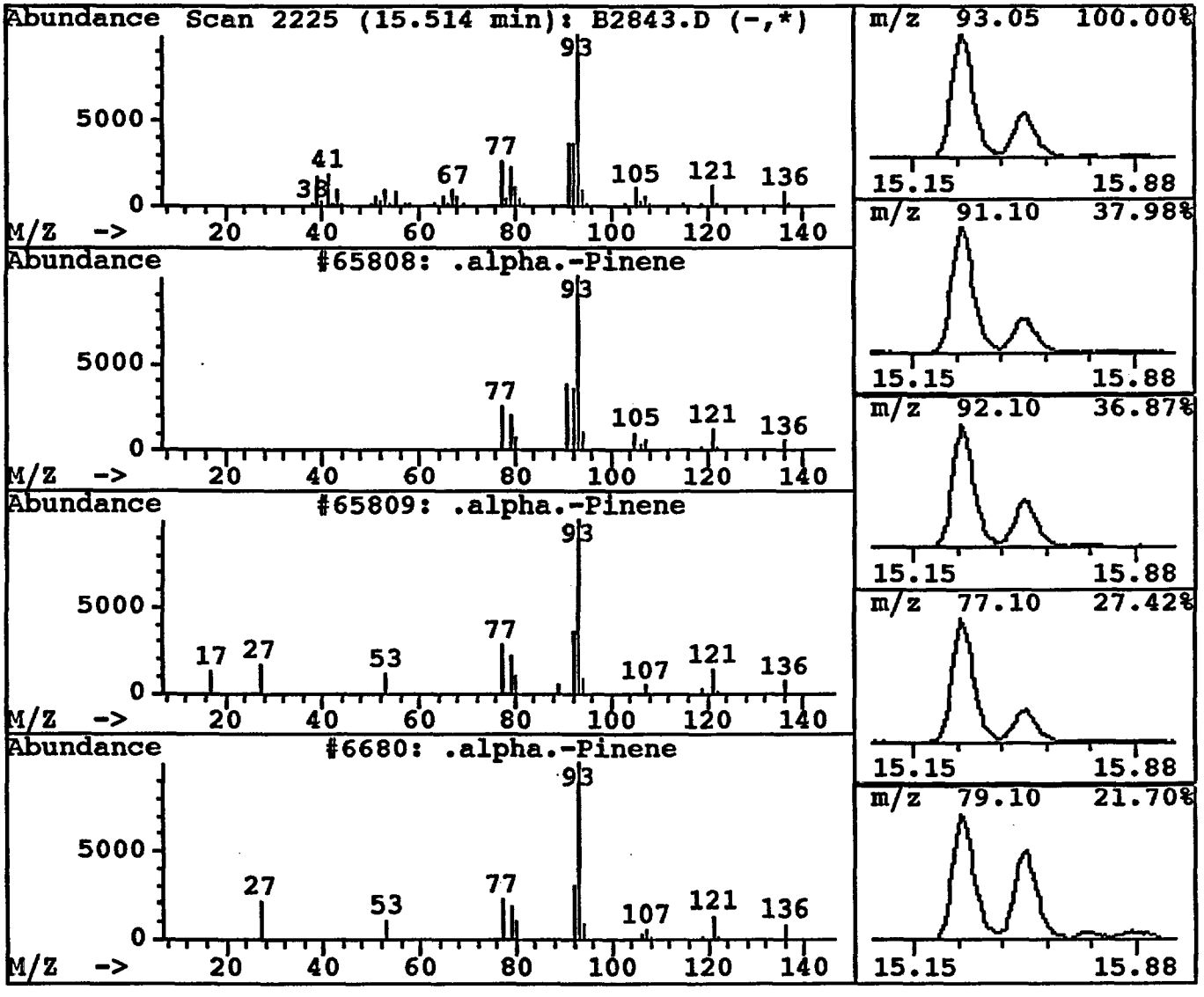
Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Library Searched: NBS75K.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.51	54.36 ug/L	2407905	CI20 D5-Chlorobenzene	2214944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.alpha.-Pinene	65808	000080-56-8	96
2	.alpha.-Pinene	65809	000080-56-8	94
3	.alpha.-Pinene	6680	000080-56-8	94
4	Bicyclo[3.1.1]hept-2-ene, 3,6,6-tri	6692	004889-83-2	94
5	.beta.-Pinene	6669	000127-91-3	93



Tentatively Identified Compound (LSC)

Operator ID: JR Date Acquired: 30 Mar 96 13:56 **000076**

Data File: C:\033096A\B2843.D

Name: FER95 21

Misc: HP1*USEPA*15411.03*5g*MS317

Method: OLMO3S1.M Inst: HP1

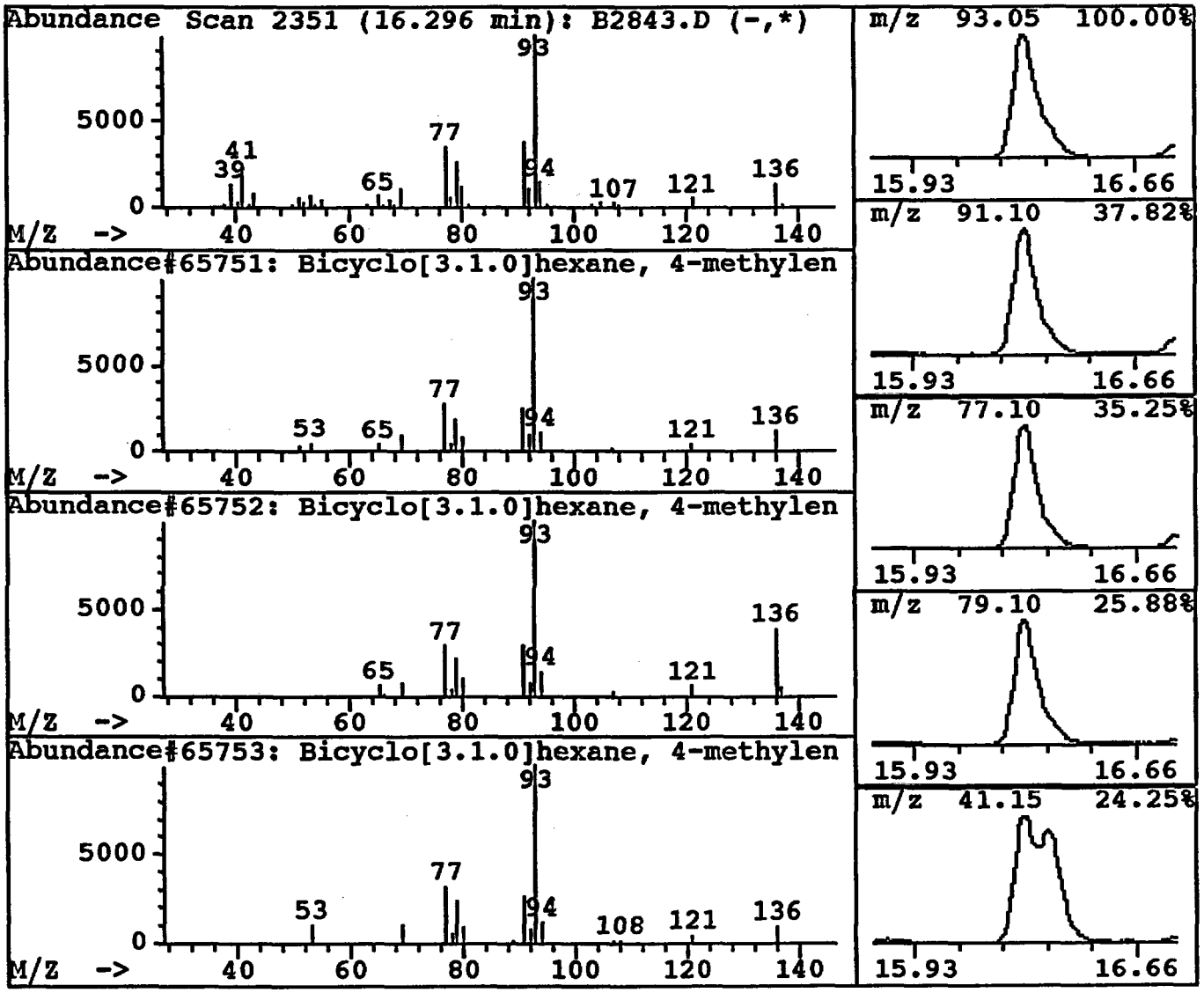
Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Library Searched: NBS75K.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.30	357.92 ug/L	15855406	CI20 D5-Chlorobenzene	2214944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.0]hexane, 4-methylene-1	65751	003387-41-5	97
2	Bicyclo[3.1.0]hexane, 4-methylene-1	65752	003387-41-5	95
3	Bicyclo[3.1.0]hexane, 4-methylene-1	65753	003387-41-5	94
4	.beta.-Phellandrene	6641	000555-10-2	91
5	Bicyclo[3.1.0]hex-2-ene, 4-methyl-1	6611	028634-89-1	91



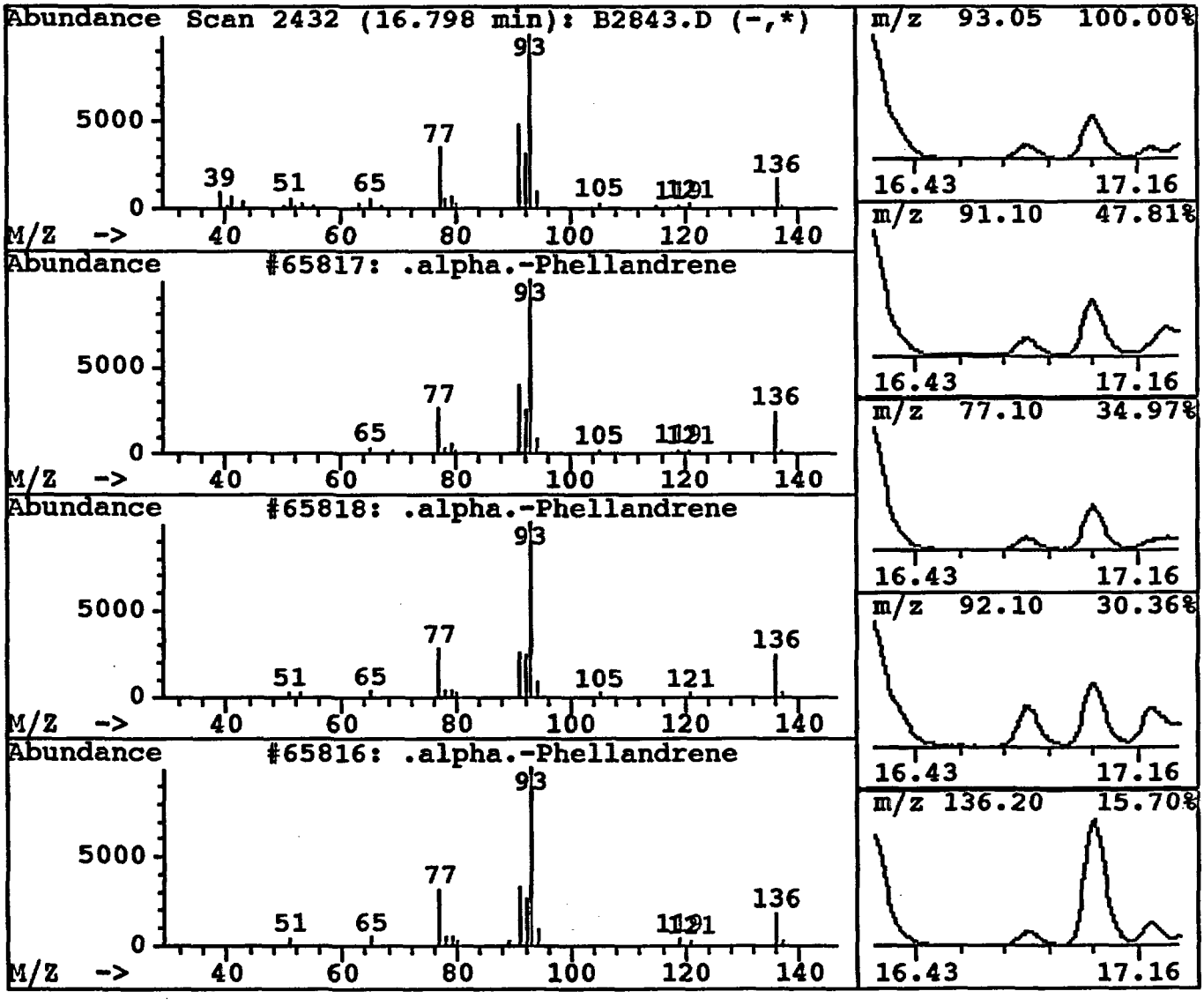
Tentatively Identified Compound (LSC) 000077

Operator ID: JR Date Acquired: 30 Mar 96 13:56
Data File: C:\033096A\B2843.D
Name: FER95 21
Misc: HP1*USEPA*15411.03*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:22:23 1996

Library Searched: NBS75K.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.80	24.80 ug/L	1098468	CI20 D5-Chlorobenzene	2214944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	.alpha.-Phellandrene	65817	000099-83-2	91
2	.alpha.-Phellandrene	65818	000099-83-2	91
3	.alpha.-Phellandrene	65816	000099-83-2	91
4	.alpha.-Phellandrene	65814	000099-83-2	91
5	.alpha.-Phellandrene	65819	000099-83-2	90



Tentatively Identified Compound (LSC)

Operator ID: JR Date Acquired: 30 Mar 96 13:56

000078

Data File: C:\033096A\B2843.D

Name: FER95 21

Misc: HP1*USEPA*15411.03*5g*MS317

Method: OLMO3S1.M Inst: HP1

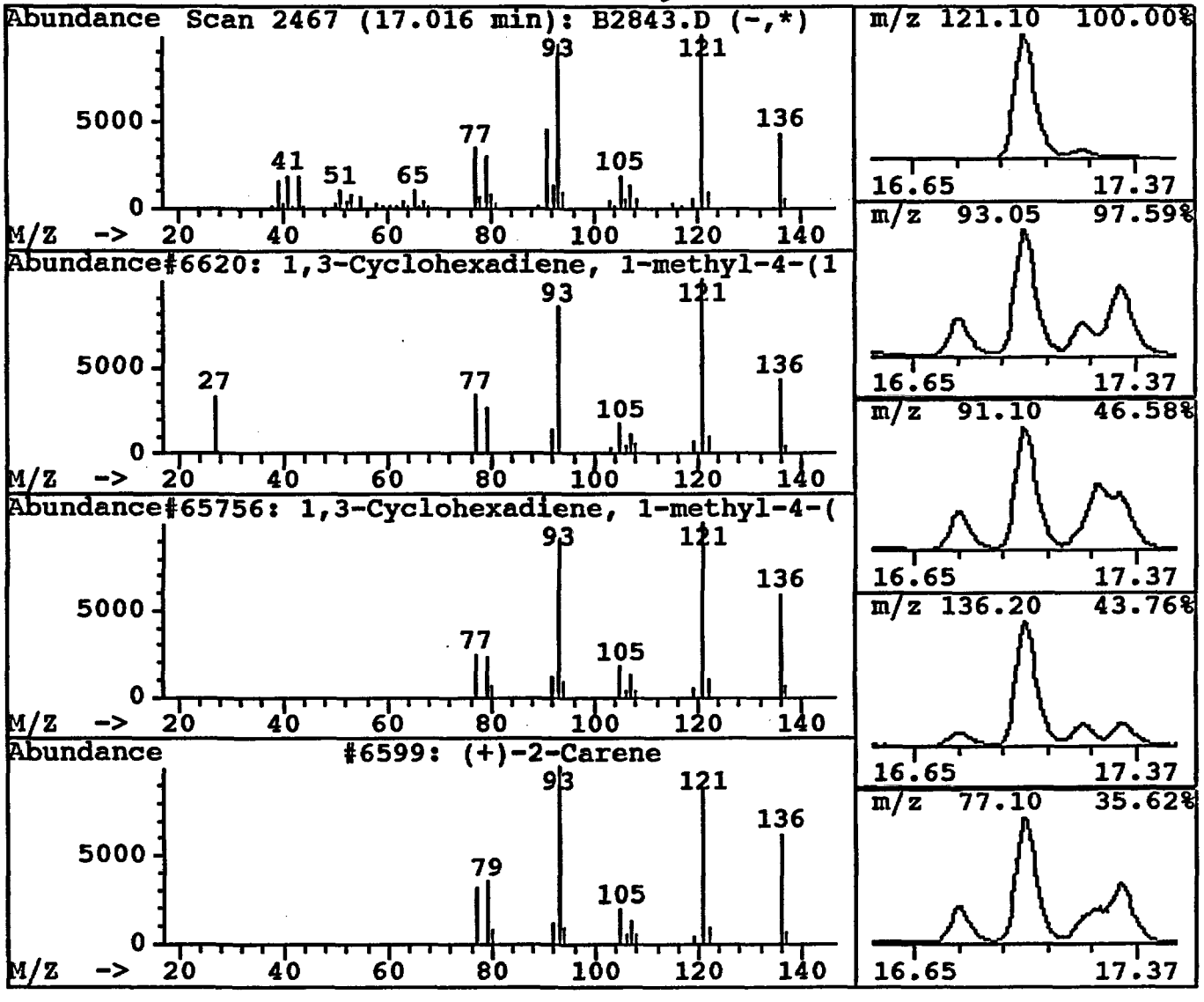
Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Library Searched: NBS75K.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.02	158.65 ug/L	7027992	CI20 D5-Chlorobenzene	2214944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,3-Cyclohexadiene, 1-methyl-4-(1-m	6620	000099-86-5	97
2	1,3-Cyclohexadiene, 1-methyl-4-(1-m	65756	000099-86-5	96
3	(+)-2-Carene	6599	000000-00-0	95
4	1,3-Cyclohexadiene, 1-methyl-4-(1-m	65757	000099-86-5	94
5	1,3-Cyclohexadiene, 1-methyl-4-(1-m	65755	000099-86-5	94



Tentatively Identified Compound (LSC)

Operator ID: JR Date Acquired: 30 Mar 96 13:56 **000079**

Data File: C:\033096A\B2843.D

Name: FER95 21

Misc: HP1*USEPA*15411.03*5g*MS317

Method: OLMO3S1.M Inst: HP1

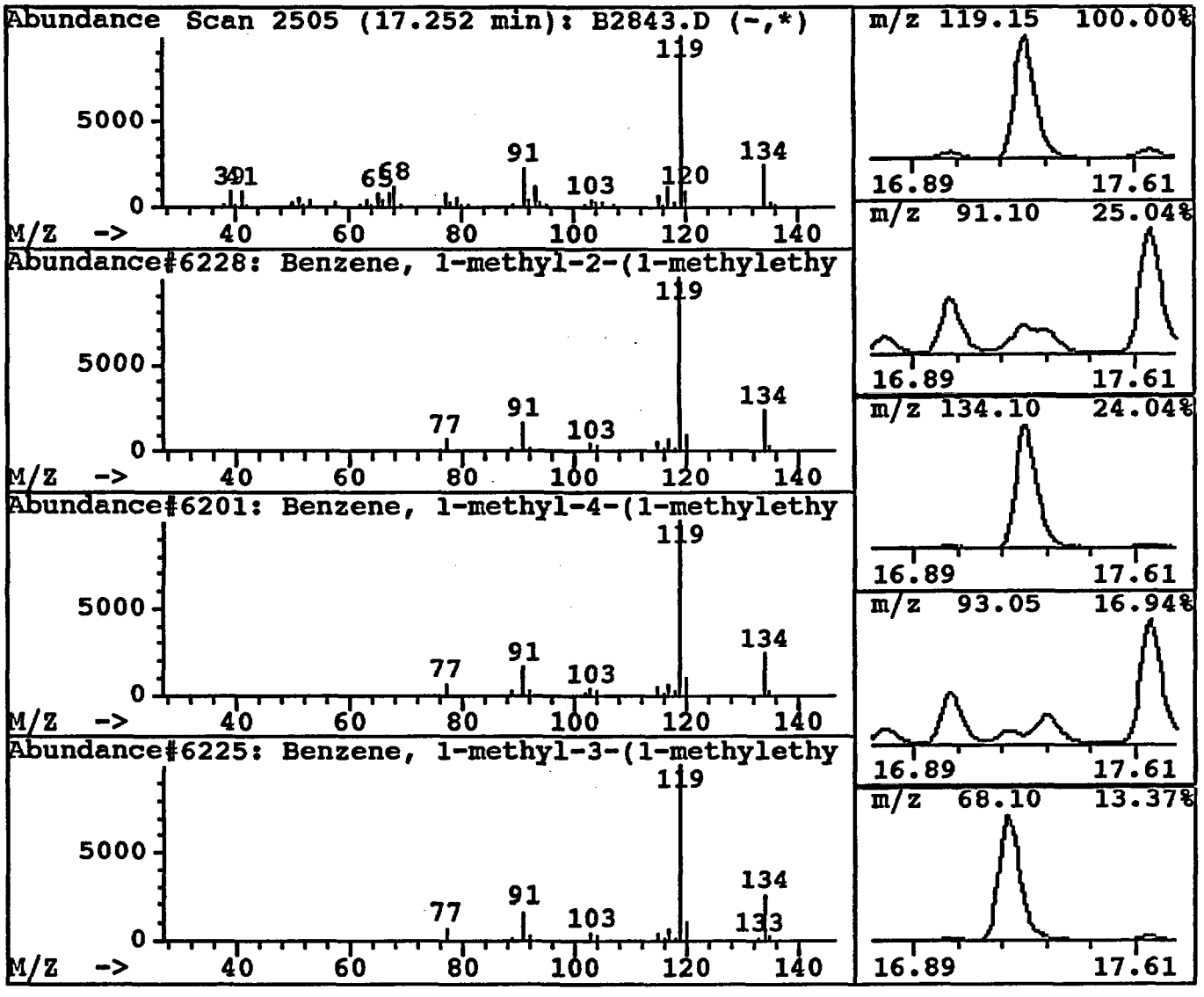
Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Library Searched: NBS75K.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.25	182.37 ug/L	8079007	CI20 D5-Chlorobenzene	2214944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1-methyl-2-(1-methylethyl)	6228	000527-84-4	94
2	Benzene, 1-methyl-4-(1-methylethyl)	6201	000099-87-6	94
3	Benzene, 1-methyl-3-(1-methylethyl)	6225	000535-77-3	94
4	Benzene, 1-methyl-3-(1-methylethyl)	65579	000535-77-3	94
5	Benzene, 1-methyl-4-(1-methylethyl)	65538	000099-87-6	93



Tentatively Identified Compound (LSC)

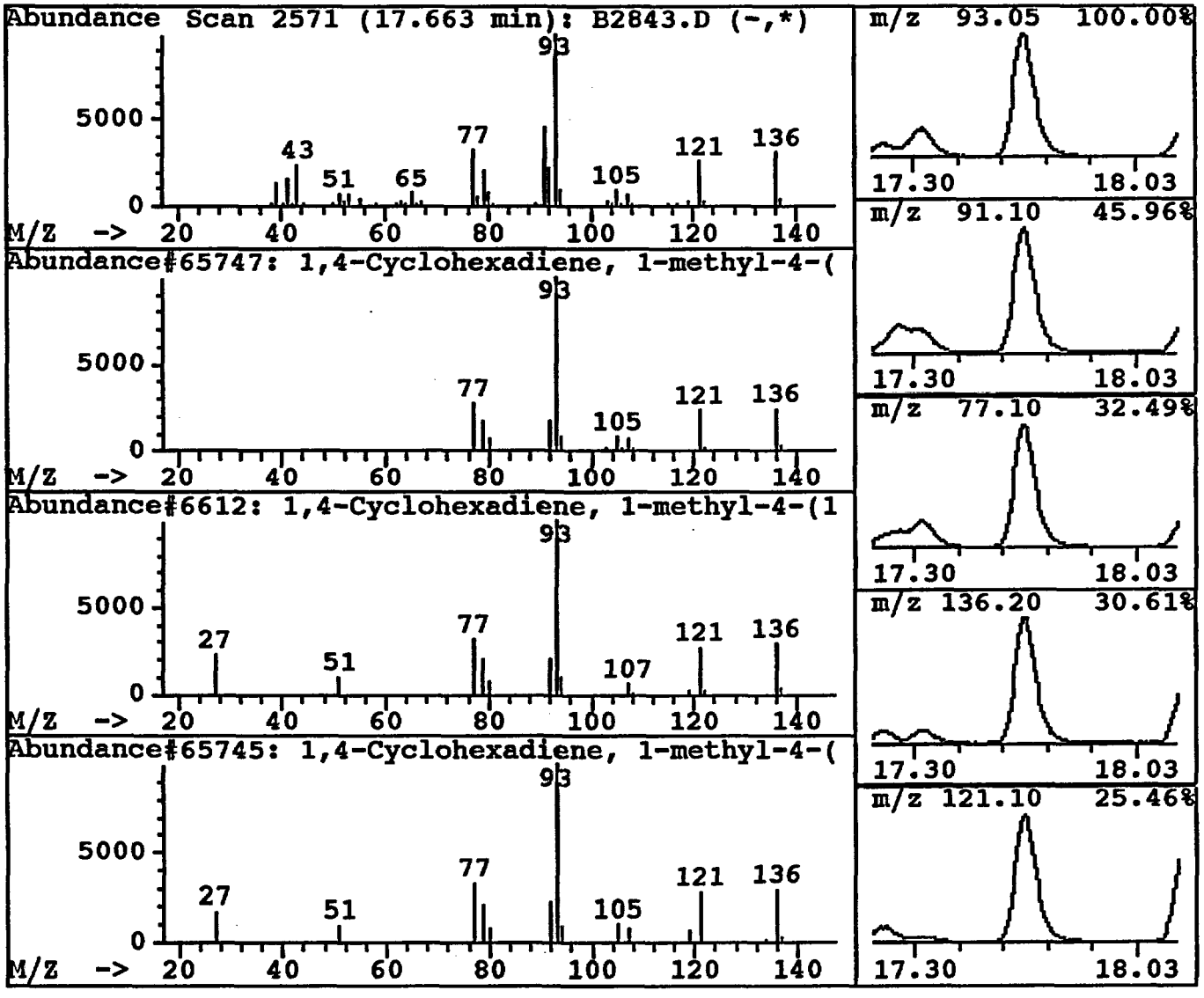
Operator ID: JR Date Acquired: 30 Mar 96 13:56
Data File: C:\033096A\B2843.D
Name: FER95
Misc: HP1*USEPA*15411.03*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:22:23 1996

000080

Library Searched: NBS75K.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.66	276.73 ug/L	12258679	CI20 D5-Chlorobenzene	2214944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Cyclohexadiene, 1-methyl-4-(1-m	65747	000099-85-4	97
2	1,4-Cyclohexadiene, 1-methyl-4-(1-m	6612	000099-85-4	96
3	1,4-Cyclohexadiene, 1-methyl-4-(1-m	65745	000099-85-4	94
4	1,4-Cyclohexadiene, 1-methyl-4-(1-m	65746	000099-85-4	91
5	3-Carene	65795	013466-78-9	91



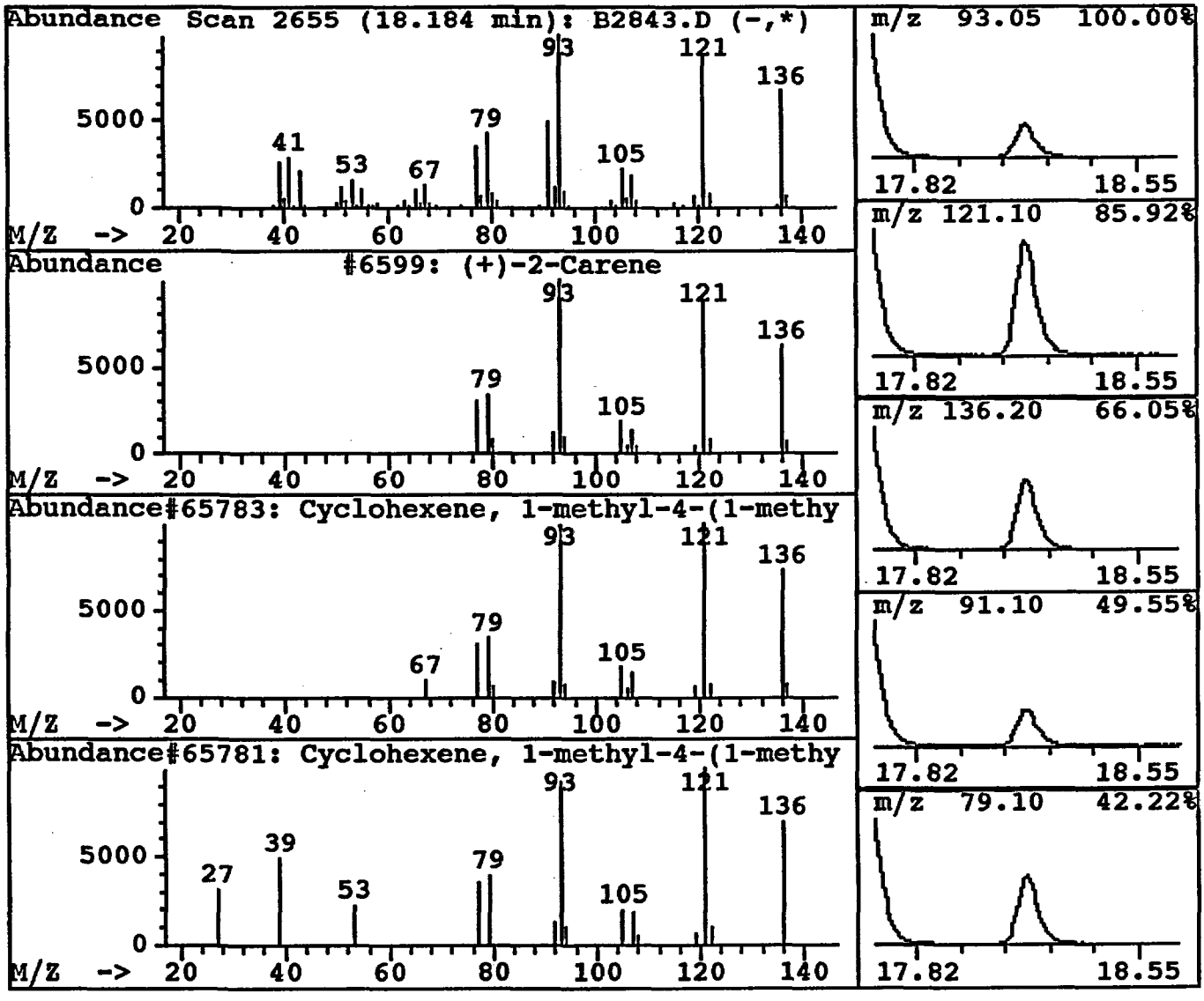
Tentatively Identified Compound (LSC)

Operator ID: JR Date Acquired: 30 Mar 96 13:56 **000081**
Data File: C:\033096A\B2843.D
Name: FER95 21
Misc: HP1*USEPA*15411.03*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:22:23 1996

Library Searched: NBS75K.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.18	93.00 ug/L	4119659	CI20 D5-Chlorobenzene	2214944

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(+)-2-Carene	6599	000000-00-0	98
2	Cyclohexene, 1-methyl-4-(1-methylet	65783	000586-62-9	97
3	Cyclohexene, 1-methyl-4-(1-methylet	65781	000586-62-9	96
4	Cyclohexene, 1-methyl-4-(1-methylet	65782	000586-62-9	96
5	Cyclohexene, 1-methyl-4-(1-methylet	65780	000586-62-9	95



1E **000083** EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FER97

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541104

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2851

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 16 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 17:59

Data File: C:\033096A\B2851.D

000084

22

Name: FER97

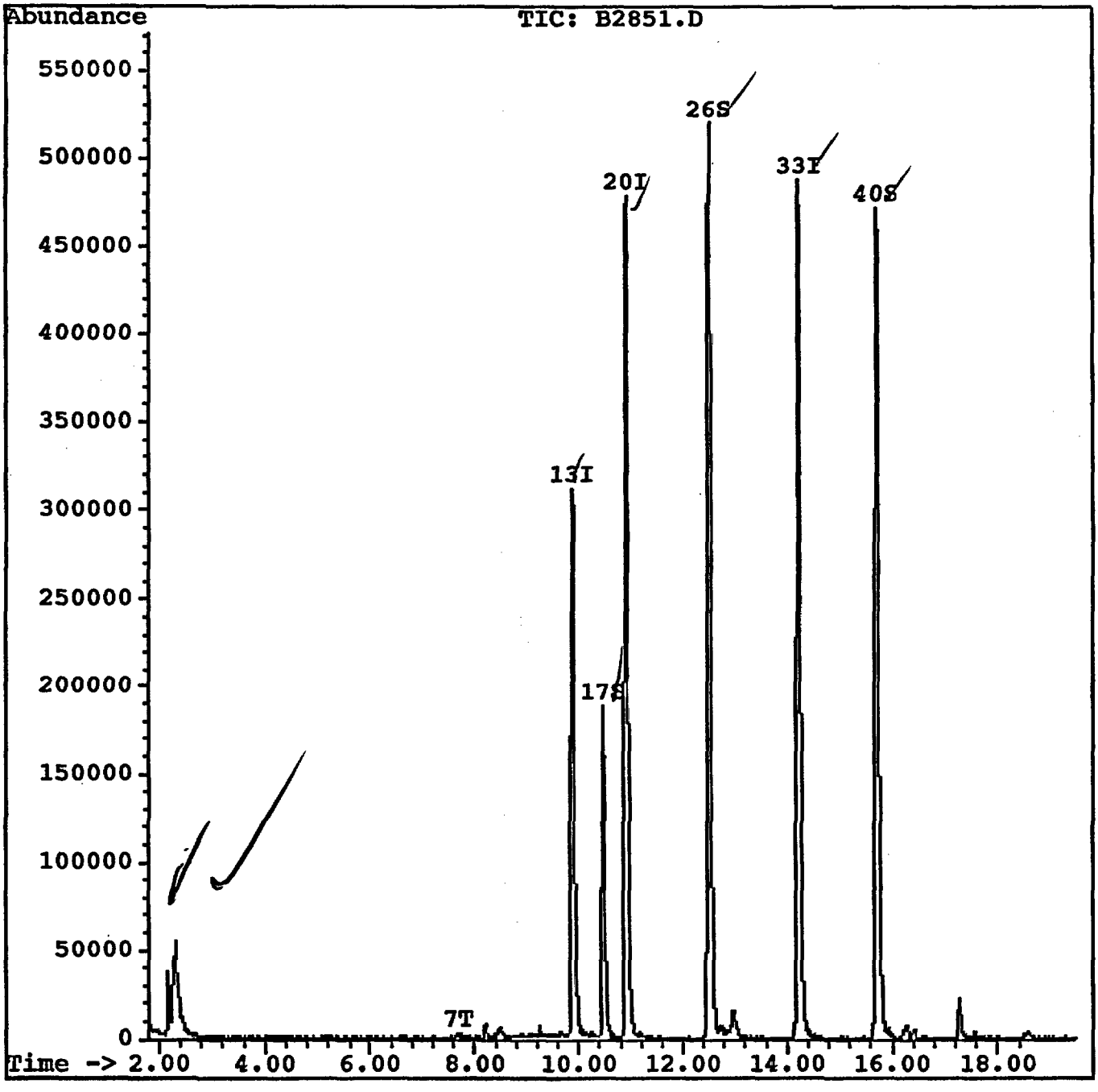
Misc: HP1*USEPA*15411.04*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 17:59

000085

Data File: C:\033096A\B2851.D

Name: FER97

22

Misc: HP1*USEPA*15411.04*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	173734	50.00	ug/L	0.01
20) CI10 1,4-Difluorobenzene	10.92	114	900689	50.00	ug/L	0.02
33) CI20 D5-Chlorobenzene	14.22	117	751865	50.00	ug/L	0.04
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.47	65	233445	46.64	ug/L	93.28%
26) CS05 D8-Toluene SU2	12.50	98	868450	49.94	ug/L	99.89%
40) CS10 p-Bromofluorobenzene	15.72	95	544118	48.62	ug/L	97.25%
Target Compounds						**ISTD#**
7) ~~C035 Acetone~~	~~7.68~~	~~43~~	~~8961~~	6.55	ug/L	001#

FP=FALSE POSITIVE

(#) = qualifier out of range

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FER98

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541105

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2852

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 15 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

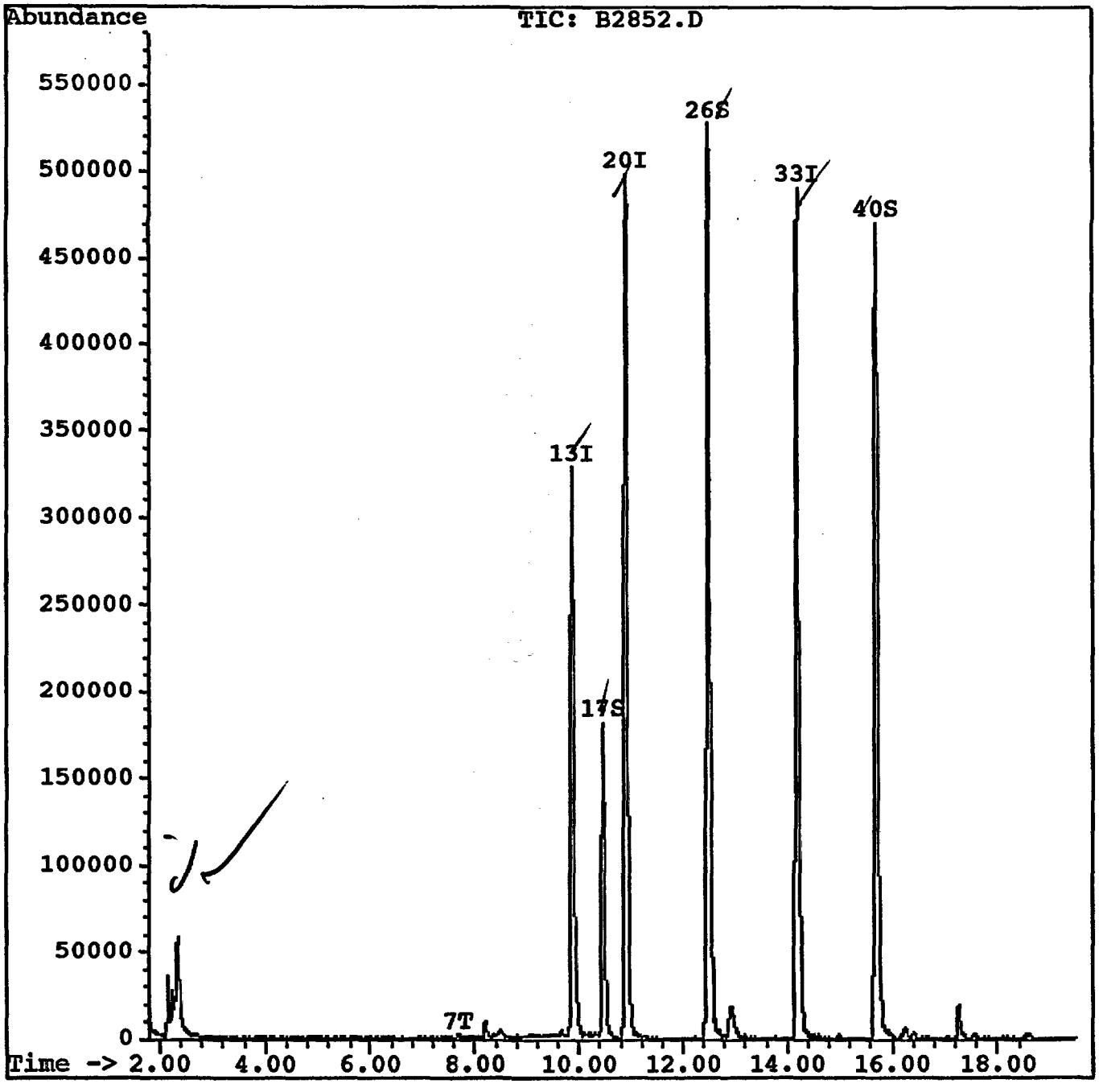
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 18:30 000088
Data File: C:\033096A\B2852.D
Name: FER98 23
Misc: HP1*USEPA*15411.05*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:22:23 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 18:30

000089

Data File: C:\033096A\B2852.D

Name: FER98

23

Misc: HP1*USEPA*15411.05*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.87	128	182555	50.00	ug/L	-0.00
20) CI10 1,4-Difluorobenzene	10.91	114	933903	50.00	ug/L	0.01
33) CI20 D5-Chlorobenzene	14.20	117	761548	50.00	ug/L	0.02
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.47	65	229874	43.71	ug/L	87.41%
26) CS05 D8-Toluene SU2	12.49	98	880462	49.99	ug/L	99.98%
40) CS10 p-Bromofluorobenzene	15.70	95	544650	48.05	ug/L	96.10%
Target Compounds						**ISTD#**
7) C035 Acetone	7.68	43	5272	3.67	ug/L	001#

FP - FALSE POSITIVE

(#) = qualifier out of range

1E **000091** EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FER99

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541106

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2853

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 14 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 18:56 **000092**

Data File: C:\033096A\B2853.D

Name: FER99 23

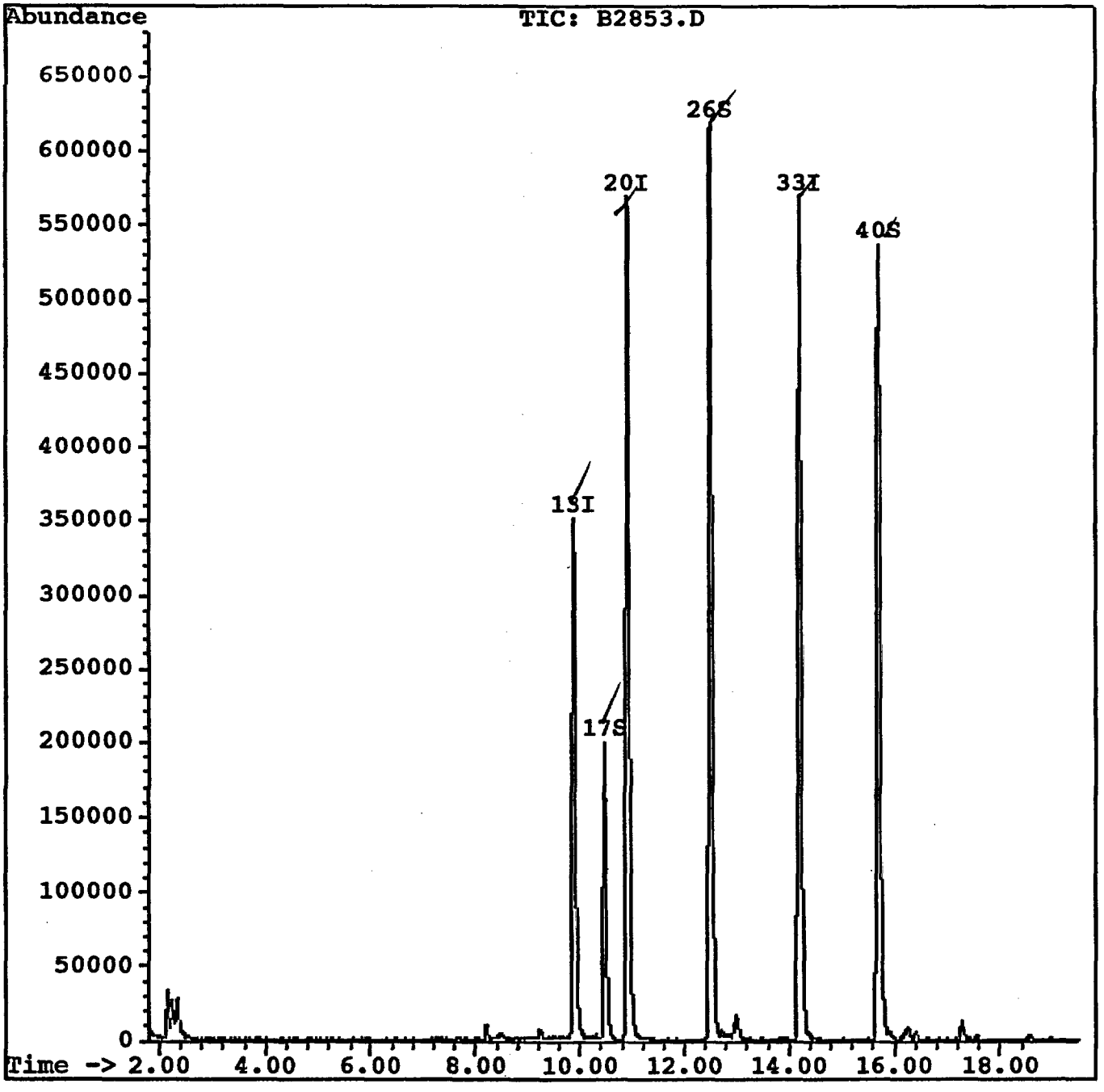
Misc: HP1*USEPA*15411.06*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 18:56

000093

Data File: C:\033096A\B2853.D

Name: FER99

23

Misc: HP1*USEPA*15411.06*5g*MS317

Method: OLMO3S1.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	195679	50.00	ug/L	0.01
20) CI10 1,4-Difluorobenzene	10.91	114	1092222	50.00	ug/L	0.01
33) CI20 D5-Chlorobenzene	14.20	117	872919	50.00	ug/L	0.03
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.47	65	246165	43.67	ug/L	87.33%
26) CS05 D8-Toluene SU2	12.50	98	1038181	51.43	ug/L	102.85%
40) CS10 p-Bromofluorobenzene	15.70	95	621597	47.84	ug/L	95.69%
Target Compounds						**ISTD#**

(#) = qualifier out of range

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000095 EPA SAMPLE NO.

FES00

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541101

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2849

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 25 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

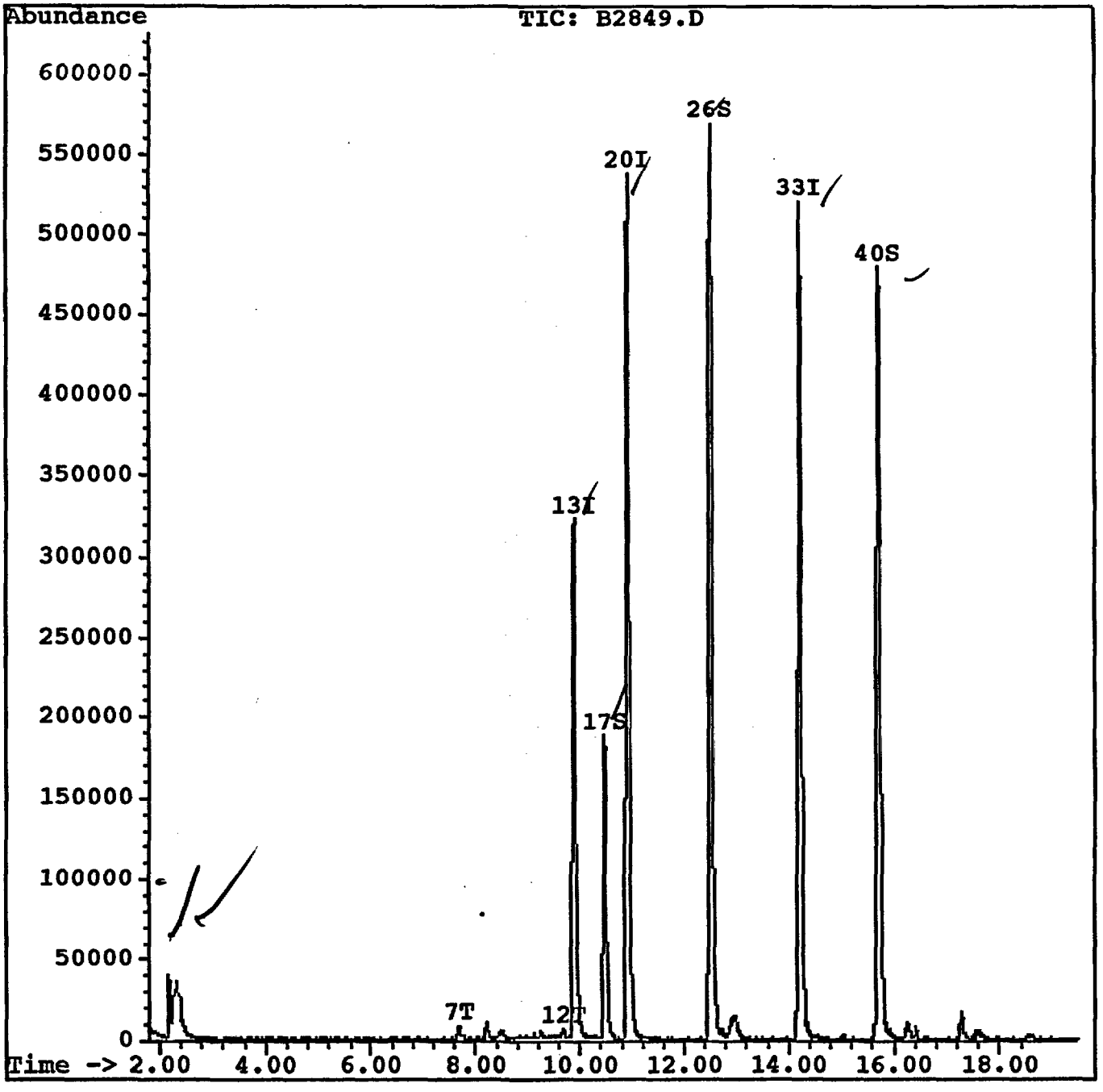
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 16:58
Data File: C:\033096A\B2849.D
Name: FES00
Misc: HP1*USEPA*15411.01*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:22:23 1996
Quantitated using Single Level Calibration

000096 19



QUANT REPORT

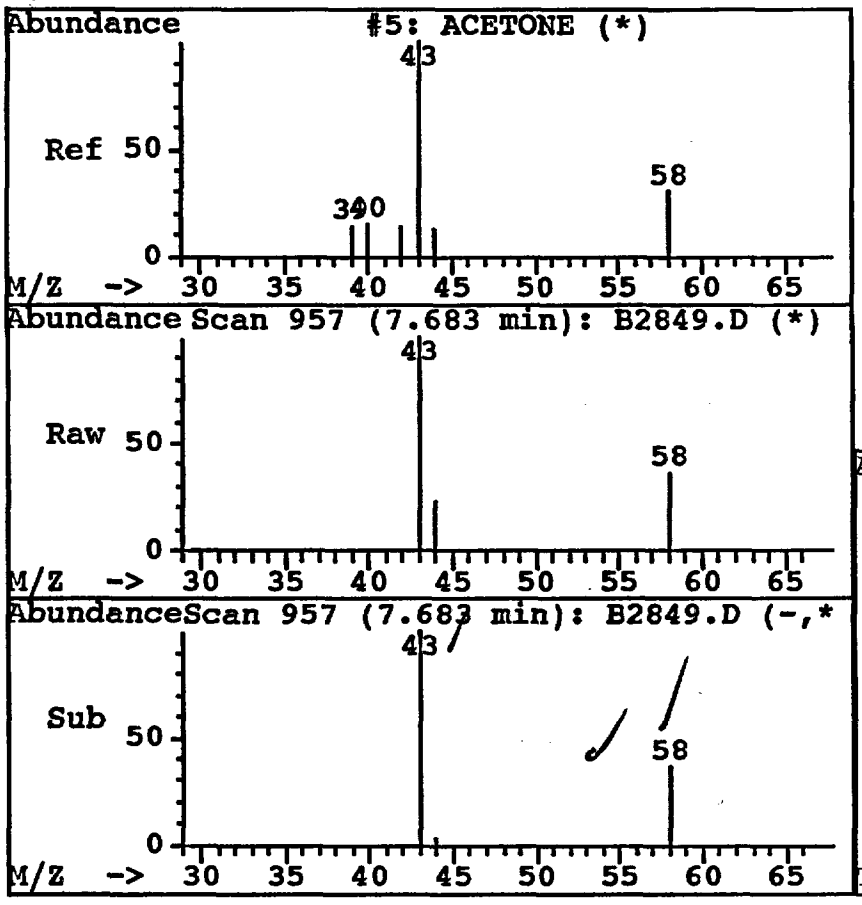
Operator ID: JR Date Acquired: 30 Mar 96 16:58
Data File: C:\033096A\B2849.D
Name: FES00
Misc: HP1*USEPA*15411.01*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:22:23 1996
Quantitated using Single Level Calibration

000097 19

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	180448	50.00	ug/L	0.02
20) CI10 1,4-Difluorobenzene	10.92	114	1010432	50.00	ug/L	0.03
33) CI20 D5-Chlorobenzene	14.22	117	797458	50.00	ug/L	0.04
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.48	65	236182	45.43	ug/L	90.86%
26) CS05 D8-Toluene SU2	12.51	98	960744	52.09	ug/L	104.19%
40) CS10 p-Bromofluorobenzene	15.71	95	555567	46.81	ug/L	93.62%
Target Compounds						ISTD#
7) C035 Acetone	7.68	43	26527	18.68	ug/L	001
~~12) C110 2-Butanone~~	~~9.70~~	~~43~~	~~8751~~	~~3.54~~	~~ug/L~~ FP	001#

FP = FALSE POSITIVE

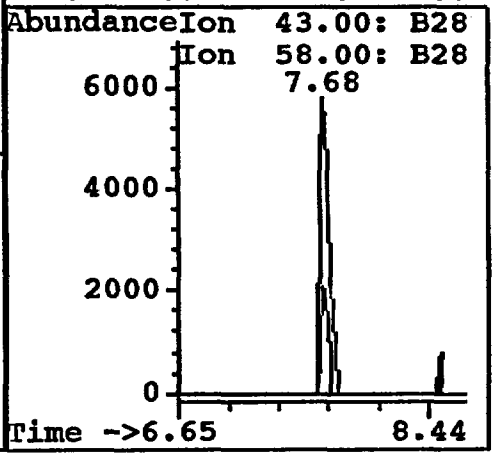
(#) = qualifier out of range

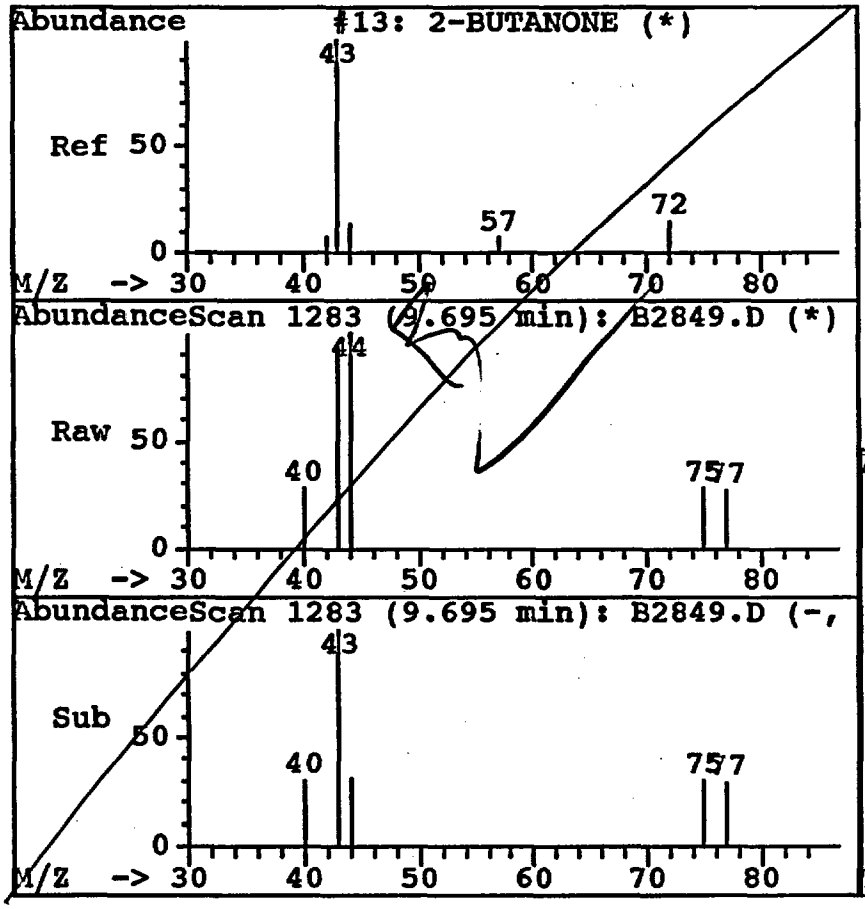


#7 Inst: HP1
C035 Acetone **000098**
Concen: 18.68 ug/L
RT: 7.68 min Scan# 957
Delta R.T. -0.12 min
Lab File: B2849.D
Acq: 30 Mar 96 16:58
FES00

Tgt Ion: 43 Area: 26527

Ion	Ratio	Lower	Upper
43	100		
58	26.6	26.4	39.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

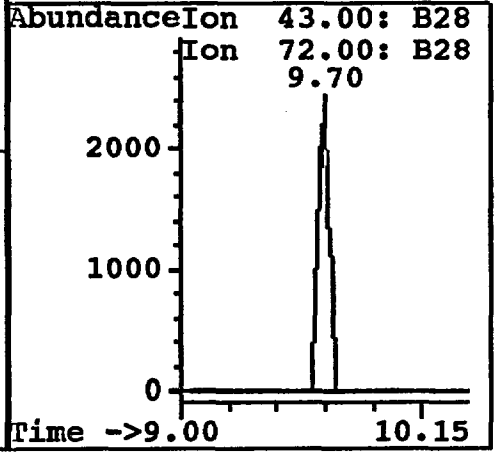




#12 Inst: HP1
C110 2-Butanone
Concen: 3.54 ug/L
RT: 9.70 min Scan# 1283
Delta R.T. 0.02 min
Lab File: B2849.D
Acq: 30 Mar 96 16:58
FES00

Tgt Ion: 43 Area: 8751

Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.0	30.0#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



VOLATILE ORGANICS INITIAL CALIBRATION DATA

000099

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP1 Calibration Date(s): 03/21/96 03/21/96

Heated Purge: (Y/N): Y Calibration Times: 1218 1431

GC Column: CAP ID: 0.530 (mm)

LAB FILE ID: RRF10 = B2632 RRF20 = B2629
RRF50= B2630 RRF100= B2631 RRF200= B2627

		COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
		Chloromethane	0.801	0.879	0.678	0.984	0.640	0.796	17.8
	*	Bromomethane	1.834	1.859	1.734	1.692	1.631	1.750	5.5*
	*	Vinyl Chloride	1.498	1.689	1.479	1.647	1.390	1.541	8.1*
		Chloroethane	1.190	1.258	1.175	1.114	1.088	1.165	5.7
		Methylene Chloride	1.649	1.673	1.576	1.447	1.417	1.552	7.5
		Acetone	0.541	0.328	0.627	0.527	0.466	0.498	22.3
		Carbon Disulfide	5.177	5.499	4.969	4.632	4.460	4.947	8.4
	*	1,1-Dichloroethene	1.705	1.786	1.642	1.544	1.494	1.634	7.2*
	*	1,1-Dichloroethane	3.022	3.079	2.847	2.636	2.517	2.820	8.6*
		1,2-Dichloroethene (total)	1.711	1.774	1.676	1.581	1.530	1.654	6.0
	*	Chloroform	3.226	3.247	3.052	2.836	2.736	3.019	7.6*
	*	1,2-Dichloroethane	1.728	1.716	1.743	1.474	1.463	1.625	8.8*
		2-Butanone	0.994	0.755	1.308	0.904	0.910	0.974	21.1
	*	1,1,1-Trichloroethane	0.591	0.593	0.560	0.508	0.486	0.548	8.9*
	*	Carbon Tetrachloride	0.585	0.606	0.575	0.509	0.491	0.553	9.1*
	*	Bromodichloromethane	0.608	0.604	0.603	0.532	0.524	0.574	7.4*
		1,2-Dichloropropane	0.500	0.490	0.478	0.419	0.413	0.460	8.9
	*	cis-1,3-Dichloropropene	0.618	0.610	0.590	0.531	0.512	0.572	8.4*
	*	Trichloroethene	0.458	0.464	0.457	0.402	0.403	0.437	7.2*
	*	Dibromochloromethane	0.580	0.574	0.625	0.509	0.522	0.562	8.4*
	*	1,1,2-Trichloroethane	0.388	0.370	0.416	0.324	0.342	0.368	9.9*
	*	Benzene	1.107	1.074	1.023	0.897	0.863	0.993	10.9*
	*	trans-1,3-Dichloropropene	0.501	0.492	0.490	0.429	0.429	0.468	7.7*
	*	Bromoform	0.371	0.381	0.473	0.337	0.382	0.389	13.0*
		4-Methyl-2-Pentanone	0.546	0.548	0.912	0.488	0.589	0.617	27.4
		2-Hexanone	0.436	0.363	0.671	0.427	0.432	0.466	25.4
	*	Tetrachloroethene	0.454	0.456	0.448	0.411	0.409	0.436	5.4*
	*	1,1,2,2-Tetrachloroethane	0.788	0.788	1.038	0.689	0.783	0.817	16.0*
	*	Toluene	1.520	1.482	1.414	1.249	1.232	1.379	9.6*
	*	Chlorobenzene	1.116	1.096	1.103	0.992	0.991	1.060	5.9*
	*	Ethylbenzene	0.508	0.489	0.477	0.426	0.403	0.461	9.6*
	*	Styrene	1.056	1.050	1.019	0.908	0.904	0.987	7.7*
	*	Xylene (total)	0.680	0.653	0.627	0.563	0.553	0.615	9.0*
		Toluene-d8	1.201	1.290	1.265	1.120	1.142	1.204	6.2
	*	Bromofluorobenzene	0.773	0.817	0.810	0.717	0.732	0.770	5.8*
		1,2-Dichloroethane-d4	1.355	1.433	1.484	1.284	1.334	1.378	5.8

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

Calibration Table Status Report

Method: OLMO3S.M Protocol: CLP 3/90
Title: OLMO3.0 SOIL
Calibration Date: Thu Mar 21 16:02:29 1996

RD 050196
Originals retained at ARTESIA
Pages 000100 To 000147

Calibration File IDs

200	=B2627.D	100	=B2631.D	20	=B2629.D
10	=B2632.D	50	=B2630.D		

	Compound	200	100	20	10	50	Avg	%RSD
13	CI01 Bromochloromethan	----------			ISTD	----------		
1	C010 Chloromethane	0.640	0.984	0.879	0.801	0.678	0.797	17.83
2	C020 Vinyl chloride	1.390	1.647	1.689	1.498	1.482	1.541	8.04
3	C015 Bromomethane	1.632	1.694	1.867	1.834	1.734	1.752	5.56
4	C025 Chloroethane	1.088	1.116	1.258	1.190	1.175	1.166	5.72
5	C045 1,1-Dichloroethen	1.496	1.544	1.786	1.705	1.642	1.635	7.20
6	C040 Carbon disulfide	4.460	4.635	5.499	5.177	4.969	4.948	8.41
7	C035 Acetone	0.466	0.530	0.328	0.541	0.631	0.499	22.54
8	C030 Methylene chlorid	1.417	1.449	1.673	1.649	1.576	1.553	7.44
9	C053 trans-1,2-Dichlor	1.427	1.498	1.734	1.651	1.591	1.580	7.69
10	C050 1,1-Dichloroethan	2.519	2.638	3.079	3.022	2.847	2.821	8.54
11	C055 cis-1,2-Dichloroe	1.634	1.668	1.815	1.771	1.761	1.730	4.37
12	C110 2-Butanone	0.912	0.909	0.755	0.994	1.316	0.977	21.29
14	C060 Chloroform	2.736	2.836	3.247	3.226	3.052	3.020	7.58
17	CS15 D4-1,2-Dichloroet	1.335	1.284	1.433	1.355	1.484	1.378	5.79
19	C065 1,2-Dichloroethan	1.465	1.474	1.716	1.728	1.743	1.625	8.77
20	CI10 1,4-Difluorobenze	----------			ISTD	----------		
15	C115 1,1,1,-Trichloroe	0.485	0.508	0.593	0.590	0.560	0.547	8.88
16	C120 Carbon tetrachlor	0.491	0.510	0.606	0.584	0.575	0.553	9.03
18	C165 Benzene	0.863	0.897	1.074	1.106	1.024	0.993	10.85
21	C150 Trichloroethene	0.402	0.402	0.464	0.457	0.457	0.437	7.16
22	C140 1,2-Dichloropropa	0.413	0.419	0.490	0.500	0.478	0.460	8.87
23	C130 Bromodichlorometh	0.524	0.532	0.604	0.608	0.603	0.574	7.36
24	C143 cis-1,3-Dichlorop	0.512	0.531	0.610	0.617	0.590	0.572	8.29
28	C172 trans-1,3-Dichlor	0.429	0.429	0.494	0.500	0.492	0.469	7.80
29	C160 1,1,2-Trichloroet	0.343	0.325	0.370	0.387	0.417	0.368	9.79
32	C155 Dibromochlorometh	0.521	0.509	0.574	0.580	0.625	0.562	8.40
39	C180 Bromoform	0.382	0.337	0.381	0.371	0.473	0.389	12.97
33	CI20 D5-Chlorobenzene	----------			ISTD	----------		
25	C205 4-Methyl-2-pentan	0.563	0.490	0.550	0.548	0.886	0.608	26.04
26	CS05 D8-Toluene SU2	1.093	1.122	1.292	1.201	1.226	1.187	6.77
27	C230 Toluene	1.180	1.249	1.485	1.520	1.372	1.361	10.77
30	C220 Tetrachloroethene	0.391	0.411	0.456	0.454	0.434	0.429	6.53
31	C210 2-Hexanone	0.414	0.427	0.363	0.436	0.650	0.458	24.20
34	C235 Chlorobenzene	0.948	0.993	1.099	1.116	1.068	1.045	6.87
35	C240 Ethyl benzene	0.401	0.426	0.505	0.508	0.462	0.461	10.27
36	C299 m,p-Xylene	0.543	0.580	0.676	0.680	0.631	0.622	9.64
37	C250 o-Xylene	0.529	0.563	0.653	0.680	0.608	0.607	10.26
38	C245 Styrene	0.865	0.908	1.052	1.056	0.987	0.974	8.76
40	CS10 p-Bromofluorobenz	0.701	0.717	0.827	0.782	0.795	0.764	7.03
41	C225 1,1,2,2-Tetrachlo	0.749	0.689	0.788	0.788	1.005	0.804	14.87

* = QC Criteria Failed ** = % RSD > 40, Calibration Failed
# = Minimun RF Failed, % RSD Passed

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 12:18
Data File: C:\032196A\B2627.D 032696
Name: VSTD200IR V-96-447
Misc: HP1*AATSLA*VSTD200*5g*MS317 **000101**
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.96	128	213695	50.00	ug/L	0.06
20) CI10 1,4-Difluorobenzene	10.98	114	1002735	50.00	ug/L	0.07
33) CI20 D5-Chlorobenzene	14.26	117	759387	50.00	ug/L	0.06
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.54	65	1140213	200.81	ug/L	401.62%
26) CS05 D8-Toluene SU2	12.56	98	3469038	194.83	ug/L	389.66%
40) CS10 p-Bromofluorobenzene	15.74	95	2224902	196.01	ug/L	392.01%
Target Compounds						ISTD#
1) C010 Chloromethane	4.03	50	547021	153.06	ug/L	001#
2) C020 Vinyl chloride	4.63	62	1188171	177.87	ug/L	001#
3) C015 Bromomethane	5.76	94	1394274	190.74	ug/L	001#
4) C025 Chloroethane	6.13	64	929824	190.69	ug/L	001#
5) C045 1,1-Dichloroethene	7.60	96	1277327	186.60	ug/L	001
6) C035 Acetone	7.84	43	398233	327.17	ug/L	001
7) C040 Carbon disulfide	7.81	76	3811938	185.35	ug/L	001m
8) C030 Methylene chloride	8.30	84	1211176	186.18	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.61	96	1219543	181.98	ug/L	001
10) C050 1,1-Dichloroethane	9.10	63	2151655	186.80	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.71	96	1396493	191.63	ug/L	001m
12) C110 2-Butanone	9.76	43	777432	253.47	ug/L	001
14) C060 Chloroform	10.04	83	2338896	187.26	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.23	97	1947601	183.60	ug/L	002#
16) C120 Carbon tetrachloride	10.40	117	1969695	182.18	ug/L	002#
18) C165 Benzene	10.60	78	3461952	181.85	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.62	62	1250746	190.53	ug/L	001#
21) C150 Trichloroethene	11.27	130	1614467	187.21	ug/L	002
22) C140 1,2-Dichloropropane	11.49	63	1656928	184.43	ug/L	002#
23) C130 Bromodichloromethane	11.77	83	2101940	185.01	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.25	75	2054077	181.35	ug/L	002
25) C205 4-Methyl-2-pentanone	12.40	43	1787741	218.70	ug/L	003#
27) C230 Toluene	12.63	91	3741934	187.92	ug/L	003
28) C172 trans-1,3-Dichloropro	12.84	75	1719776	188.04	ug/L	002
29) C160 1,1,2-Trichloroethane	13.06	97	1372959	193.88	ug/L	002
30) C220 Tetrachloroethene	13.28	164	1241571	195.23	ug/L	003
31) C210 2-Hexanone	13.34	43	1310780	244.54	ug/L	003#
32) C155 Dibromochloromethane	13.55	129	2092447	186.65	ug/L	002#
34) C235 Chlorobenzene	14.29	112	3008887	195.82	ug/L	003#
35) C240 Ethyl benzene	14.42	106	1225125	190.94	ug/L	003
36) C299 m,p-Xylene	14.56	106	3446599	393.86	ug/L	003
37) C250 o-Xylene	15.07	106	1678249	194.18	ug/L	003
38) C245 Styrene	15.08	104	2744448	191.72	ug/L	003
39) C180 Bromoform	15.33	173	1531584	195.29	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 12:18
Data File: C:\032196A\B2627.D RD 032696
Name: VSTD200IR V-96-447
Misc: HP1*AATSLA*VSTD200*5g*MS317
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

000102

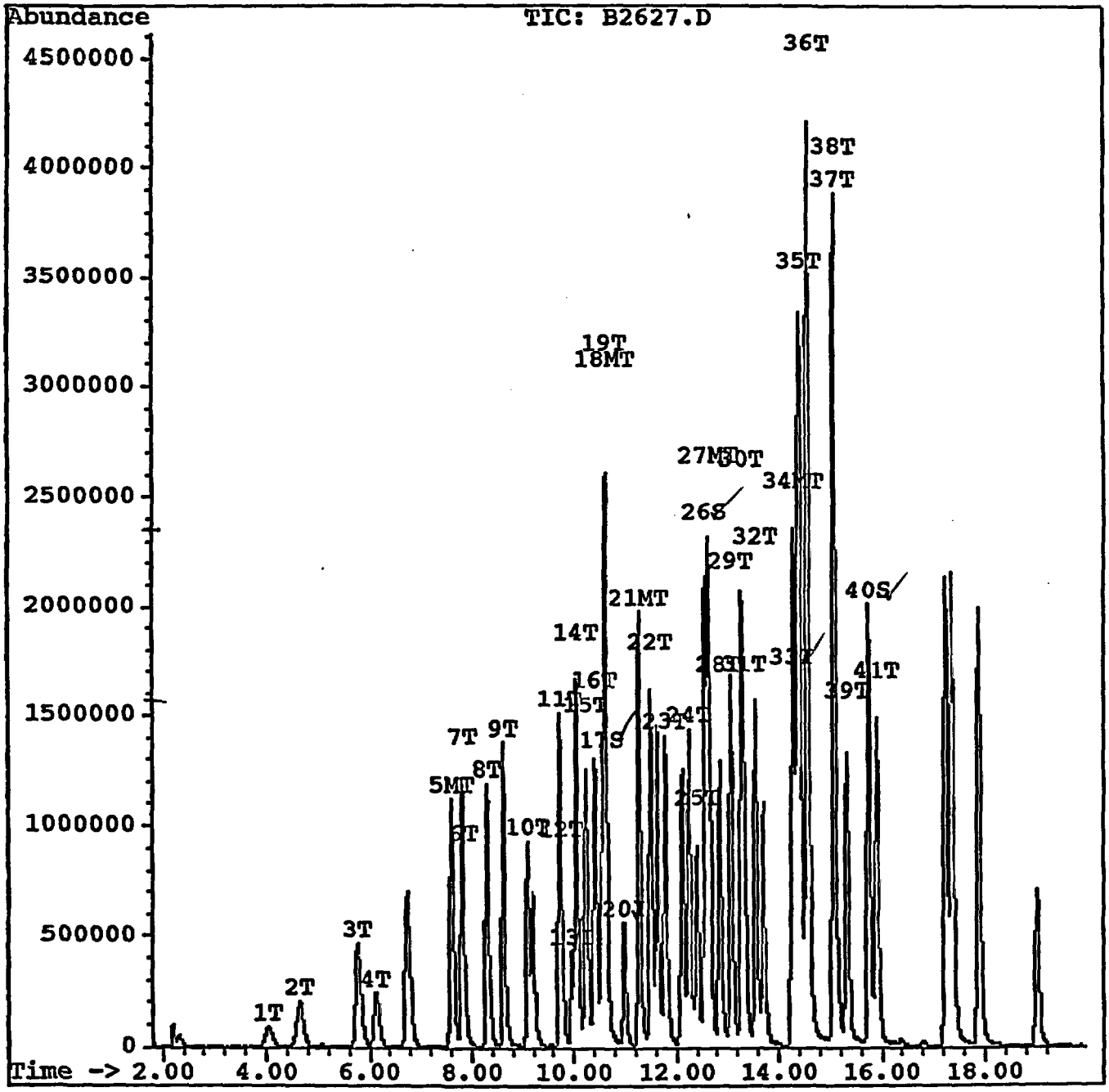
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.90	83	2377306	200.01	ug/L	003#

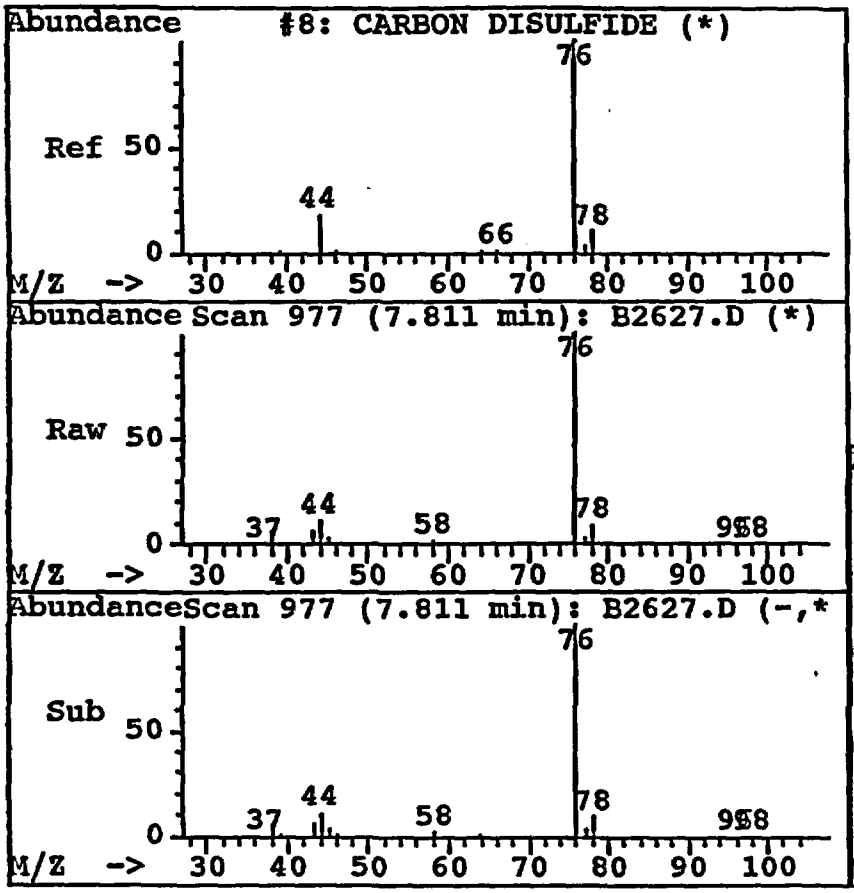
(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 12:18
Data File: C:\032196A\B2627.D RD 032696
Name: VSTD200IR V-96-447
Misc: HP1*AATSLA*VSTD200*5g*MS317
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

000103



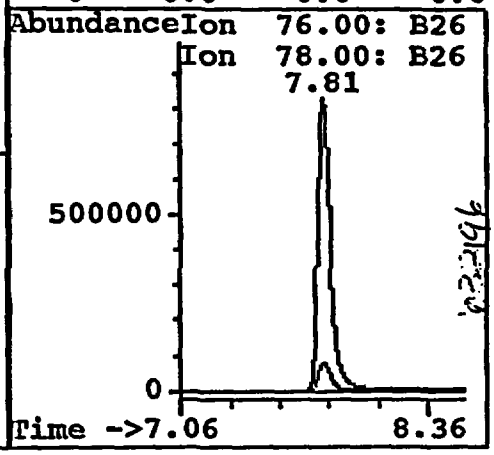


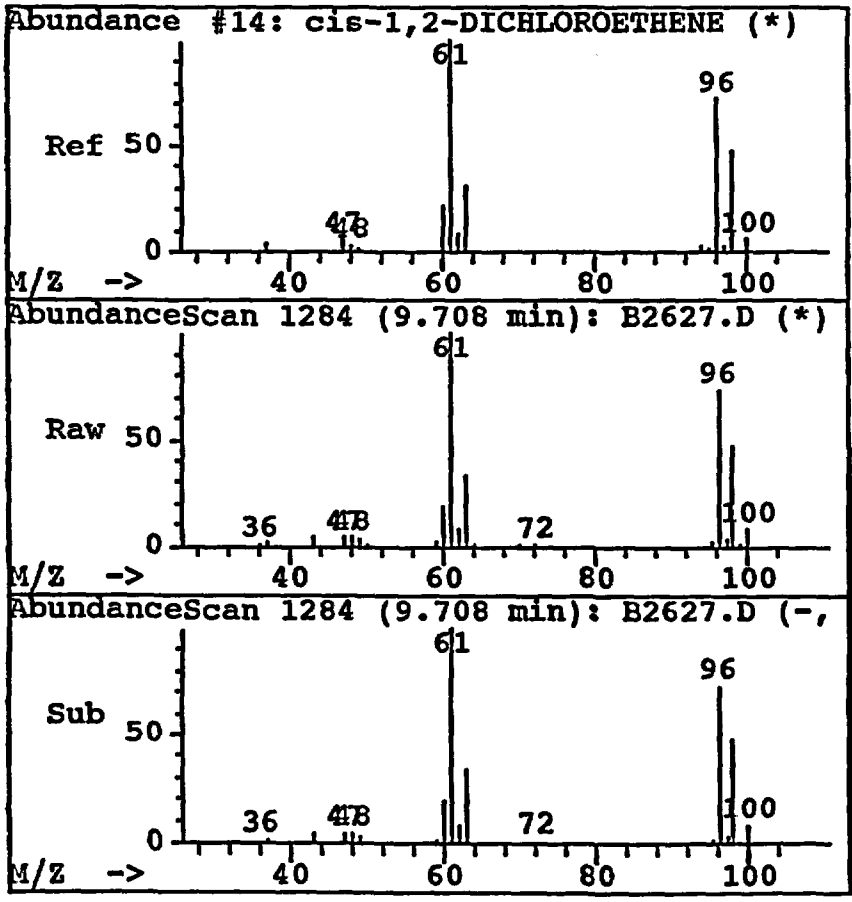
#7 Inst: HP1 **000104**
C040 Carbon disulfide
Concen: 185.35 ug/L m
RT: 7.81 min Scan# 977
Delta R.T. 0.06 min
Lab File: B2627.D
Acq: 21 Mar 96 12:18
VSTD200IR

RD 032696

Tgt Ion: 76 Area: 3811938

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



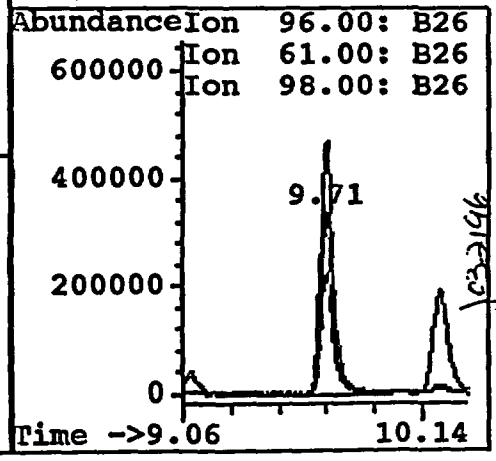


#11 Inst: HP1
C055 cis-1,2-Dichloroethene
Concen: 191.63 ug/L m
RT: 9.71 min Scan# 1284
Delta R.T. 0.06 min
Lab File: B2627.D
Acq: 21 Mar 96 12:18
VSTD200IR

RD 032696

Tgt Ion: 96 Area: 1396493

Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	0.0
98	0.0	0.0	0.0
0	0.0	0.0	0.0



QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 13:11
Data File: C:\032196A\B2629.D RD 032696
Name: VSTD0201R V-96-445
Misc: HP1*AATSLA*VSTD020*5g*MS317
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

000105

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.95	128	226666	50.00	ug/L	0.00
20) CI10 1,4-Difluorobenzene	10.99	114	1051673	50.00	ug/L	0.01
33) CI20 D5-Chlorobenzene	14.28	117	831224	50.00	ug/L	0.02
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.54	65	129910	21.57	ug/L	43.14%
26) CS05 D8-Toluene SU2	12.58	98	428871	22.01	ug/L	44.01%
40) CS10 p-Bromofluorobenzene	15.77	95	271754	21.87	ug/L	43.74%
Target Compounds						ISTD#
1) C010 Chloromethane	4.07	50	79729	21.03	ug/L	001#
2) C020 Vinyl chloride	4.65	62	153177	21.62	ug/L	001#
3) C015 Bromomethane	5.79	94	168527	21.74	ug/L	001#
4) C025 Chloroethane	6.12	64	114099	22.06	ug/L	001#
5) C045 1,1-Dichloroethene	7.60	96	161939	22.30	ug/L	001#
6) C035 Acetone	7.75	43	29713	23.01	ug/L	001#
7) C040 Carbon disulfide	7.81	76	498562	22.85	ug/L	001
8) C030 Methylene chloride	8.28	84	151660	21.98	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.61	96	157260	22.12	ug/L	001
10) C050 1,1-Dichloroethane	9.09	63	279180	22.85	ug/L	001#
11) C055 cis-1,2-Dichloroethen	9.72	96	164519	21.28	ug/L	001
12) C110 2-Butanone	9.75	43	68437	21.04	ug/L	001#
14) C060 Chloroform	10.05	83	294429	22.22	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.23	97	249465	22.42	ug/L	002#
16) C120 Carbon tetrachloride	10.41	117	254957	22.48	ug/L	002#
18) C165 Benzene	10.61	78	451990	22.64	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.61	62	155558	22.34	ug/L	001#
21) C150 Trichloroethene	11.28	130	195186	21.58	ug/L	002
22) C140 1,2-Dichloropropane	11.50	63	206272	21.89	ug/L	002#
23) C130 Bromodichloromethane	11.78	83	253880	21.31	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.26	75	256535	21.59	ug/L	002
25) C205 4-Methyl-2-pentanone	12.41	43	182110	20.35	ug/L	003#
27) C230 Toluene	12.65	91	492771	22.61	ug/L	003
28) C172 trans-1,3-Dichloropro	12.86	75	206954	21.57	ug/L	002
29) C160 1,1,2-Trichloroethane	13.08	97	155685	20.96	ug/L	002
30) C220 Tetrachloroethene	13.30	164	151764	21.80	ug/L	003
31) C210 2-Hexanone	13.36	43	120788	20.59	ug/L	003#
32) C155 Dibromochloromethane	13.56	129	241499	20.54	ug/L	002#
34) C235 Chlorobenzene	14.32	112	364415	21.67	ug/L	003#
35) C240 Ethyl benzene	14.44	106	162657	23.16	ug/L	003
36) C299 m,p-Xylene	14.58	106	449601	46.94	ug/L	003
37) C250 o-Xylene	15.09	106	217245	22.96	ug/L	003
38) C245 Styrene	15.10	104	349230	22.29	ug/L	003
39) C180 Bromoform	15.36	173	160162	19.47	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 13:11
Data File: C:\032196A\B2629.D RD 032696
Name: VSTD020|R V-96-445
Misc: HP1*AATSLA*VSTD020*5g*MS317
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

000106

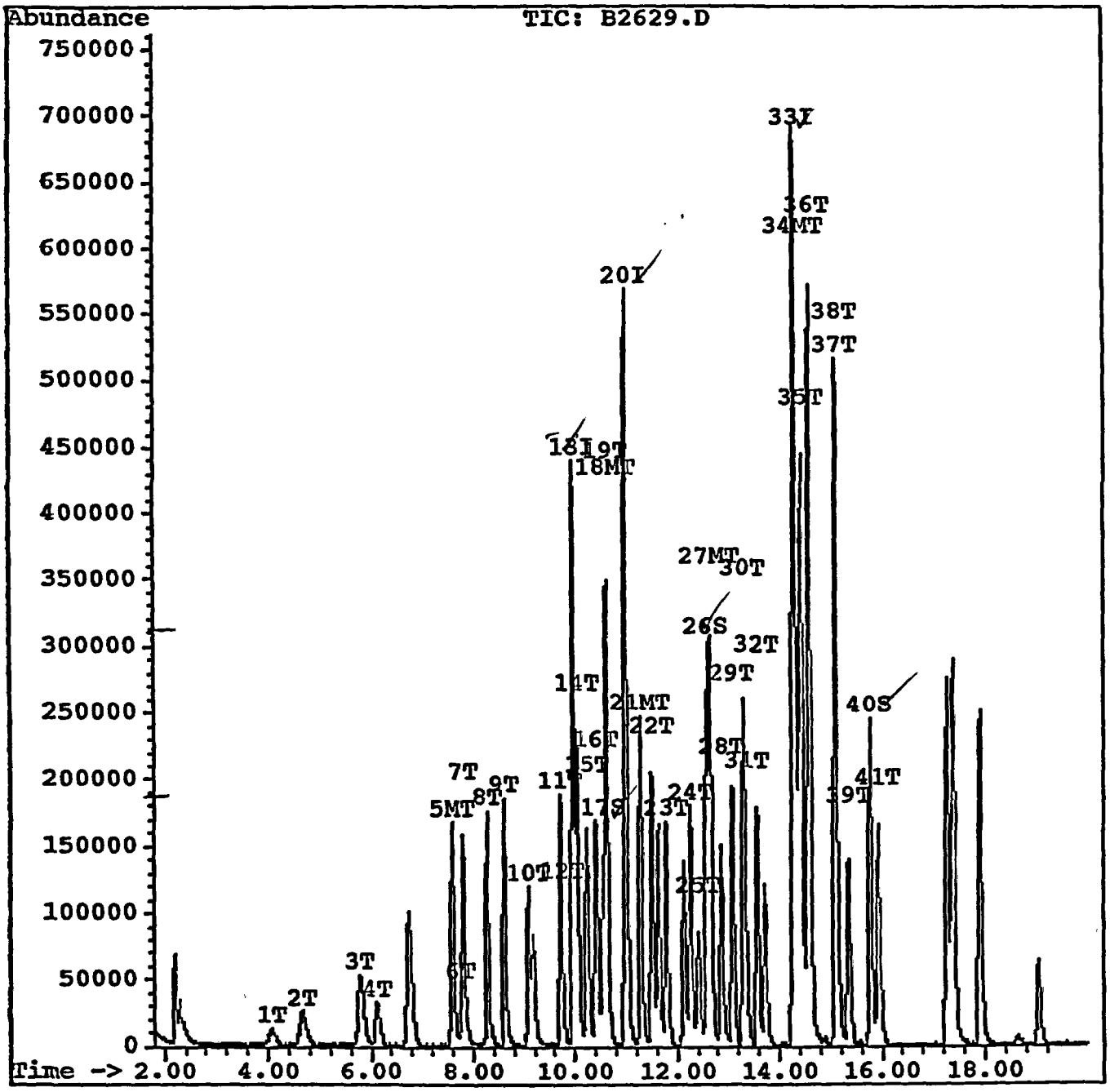
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.93	83	261977	20.14	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 13:11
Data File: C:\032196A\B2629.D RD
Name: VSTD020IR 032696 V-96-445
Misc: HP1*AATSLA*VSTD020*5g*MS317
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

000107



QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 13:38

000108

Data File: C:\032196A\B2630.D RP

Name: VSTD050IR 032696 V-96-442

Misc: HP1*AATSLA*VSTD050*5g*MS3%%

Method: OLMO3S.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Thu Mar 21 16:02:09 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.95	128	198309	50.00	ug/L	0.00
20) CI10 1,4-Difluorobenzene	10.98	114	889340	50.00	ug/L	-0.00
33) CI20 D5-Chlorobenzene	14.25	117	689336	50.00	ug/L	-0.03
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.54	65	294344	55.86	ug/L	111.72%
26) CS05 D8-Toluene SU2	12.55	98	872350	53.97	ug/L	107.95%
40) CS10 p-Bromofluorobenzene	15.75	95	558470	54.20	ug/L	108.40%
Target Compounds						ISTD#
1) C010 Chloromethane	4.10	50	134489	40.55	ug/L	001#
2) C020 Vinyl chloride	4.69	62	293202	47.30	ug/L	001#
3) C015 Bromomethane	5.81	94	343896	50.70	ug/L	001#
4) C025 Chloroethane	6.13	64	233045	51.50	ug/L	001#
5) C045 1,1-Dichloroethene	7.61	96	325638	51.26	ug/L	001#
6) C035 Acetone	7.80	43	124438	110.16	ug/L	001
7) C040 Carbon disulfide	7.82	76	985353	51.63	ug/L	001
8) C030 Methylene chloride	8.29	84	312492	51.76	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.61	96	315611	50.75	ug/L	001
10) C050 1,1-Dichloroethane	9.09	63	564646	52.82	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.71	96	349266	51.65	ug/L	001
12) C110 2-Butanone	9.76	43	259462	91.16	ug/L	001#
14) C060 Chloroform	10.05	83	605232	52.22	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.28	97	498232	52.96	ug/L	002#
16) C120 Carbon tetrachloride	10.41	117	510935	53.28	ug/L	002#
18) C165 Benzene	10.61	78	909928	53.89	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.62	62	345636	56.74	ug/L	001#
21) C150 Trichloroethene	11.27	130	406508	53.15	ug/L	002
22) C140 1,2-Dichloropropane	11.50	63	425427	53.39	ug/L	002#
23) C130 Bromodichloromethane	11.78	83	536569	53.25	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.25	75	525083	52.27	ug/L	002
25) C205 4-Methyl-2-pentanone	12.40	43	628444	84.69	ug/L	003#
27) C230 Toluene	12.63	91	974431	53.91	ug/L	003
28) C172 trans-1,3-Dichloropro	12.84	75	436185	53.77	ug/L	002
29) C160 1,1,2-Trichloroethane	13.07	97	369535	58.84	ug/L	002
30) C220 Tetrachloroethene	13.28	164	309148	53.55	ug/L	003
31) C210 2-Hexanone	13.34	43	462448	95.04	ug/L	003#
32) C155 Dibromochloromethane	13.54	129	555697	55.89	ug/L	002#
34) C235 Chlorobenzene	14.29	112	760150	54.50	ug/L	003#
35) C240 Ethyl benzene	14.41	106	329142	56.51	ug/L	003
36) C299 m,p-Xylene	14.55	106	897666	113.00	ug/L	003
37) C250 o-Xylene	15.06	106	431954	55.06	ug/L	003
38) C245 Styrene	15.08	104	702118	54.03	ug/L	003
39) C180 Bromoform	15.32	173	420411	60.44	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 13:38
Data File: C:\032196A\B2630.D RD
Name: VSTD050IR 032696 V-96-442
Misc: HP1*AATSLA*VSTD050*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Thu Mar 21 16:02:09 1996
Quantitated using Single Level Calibration

000109

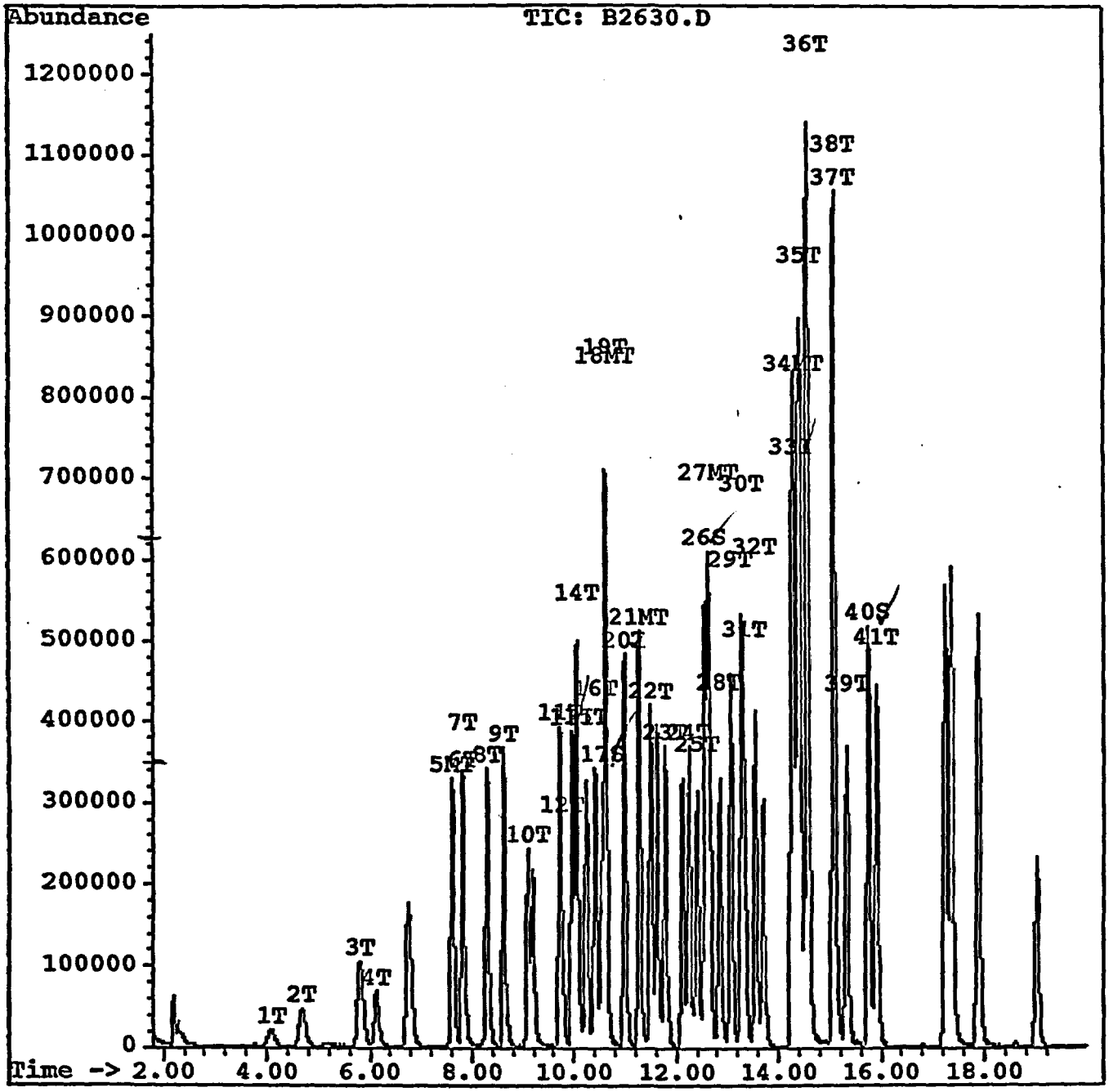
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.90	83	715321	66.30	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 13:38
Data File: C:\032196A\B2630.D RD
Name: VSTD050IR 032696 V-96-442
Misc: HP1*AATSLA*VSTD050*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL 11/01/95
Last Calibration: Thu Mar 21 13:44:57 1996
Quantitated using Single Level Calibration

000110



QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 14:04
Data File: C:\032196A\B2631.D RD 032696
Name: VSTD100IR V-96-446
Misc: HP1*AATSLA*VSTD100*5g*MS317
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

000111

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.95	128	212859	50.00	ug/L	-0.01
20) CI10 1,4-Difluorobenzene	10.97	114	996955	50.00	ug/L	-0.01
33) CI20 D5-Chlorobenzene	14.26	117	765386	50.00	ug/L	0.01
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.53	65	546457	86.48	ug/L	172.96%
26) CS05 D8-Toluene SU2	12.56	98	1715019	91.40	ug/L	182.80%
40) CS10 p-Bromofluorobenzene	15.75	95	1096929	90.14	ug/L	180.29%
Target Compounds						ISTD#
1) C010 Chloromethane	4.05	50	419050	145.14	ug/L	001#
2) C020 Vinyl chloride	4.64	62	701194	111.13	ug/L	001#
3) C015 Bromomethane	5.77	94	720496	97.59	ug/L	001#
4) C025 Chloroethane	6.12	64	474281	94.80	ug/L	001#
5) C045 1,1-Dichloroethene	7.59	96	657392	94.04	ug/L	001
6) C035 Acetone	7.77	43	224224	83.45	ug/L	001
7) C040 Carbon disulfide	7.80	76	1971728	93.21	ug/L	001
8) C030 Methylene chloride	8.27	84	616222	91.86	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.60	96	637294	94.06	ug/L	001
10) C050 1,1-Dichloroethane	9.08	63	1122159	92.58	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.70	96	708917	94.55	ug/L	001
12) C110 2-Butanone	9.74	43	384815	68.71	ug/L	001
14) C060 Chloroform	10.04	83	1207536	92.94	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.22	97	1013065	90.69	ug/L	002#
16) C120 Carbon tetrachloride	10.40	117	1015527	88.65	ug/L	002#
18) C165 Benzene	10.60	78	1787946	87.57	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.61	62	627619	84.59	ug/L	001#
21) C150 Trichloroethene	11.26	130	801883	87.98	ug/L	002
22) C140 1,2-Dichloropropane	11.49	63	836140	87.66	ug/L	002#
23) C130 Bromodichloromethane	11.77	83	1060911	88.19	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.24	75	1059410	89.99	ug/L	002
25) C205 4-Methyl-2-pentanone	12.40	43	747433	55.10	ug/L	003#
27) C230 Toluene	12.64	91	1911226	91.03	ug/L	003
28) C172 trans-1,3-Dichloropro	12.84	75	855265	87.19	ug/L	002
29) C160 1,1,2-Trichloroethane	13.06	97	646903	77.89	ug/L	002
30) C220 Tetrachloroethene	13.28	164	629371	94.65	ug/L	003
31) C210 2-Hexanone	13.34	43	653158	65.66	ug/L	003#
32) C155 Dibromochloromethane	13.55	129	1014853	81.37	ug/L	002#
34) C235 Chlorobenzene	14.29	112	1517941	92.84	ug/L	003#
35) C240 Ethyl benzene	14.42	106	651864	92.08	ug/L	003
36) C299 m,p-Xylene	14.56	106	1775614	183.71	ug/L	003
37) C250 o-Xylene	15.07	106	862180	92.63	ug/L	003
38) C245 Styrene	15.08	104	1389928	92.04	ug/L	003
39) C180 Bromoform	15.33	173	671665	71.26	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 14:04
Data File: C:\032196A\B2631.D RD 032696
Name: VSTD100IR V-96-446
Misc: HP1*AATSLA*VSTD100*5g*MS317 **000112**
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

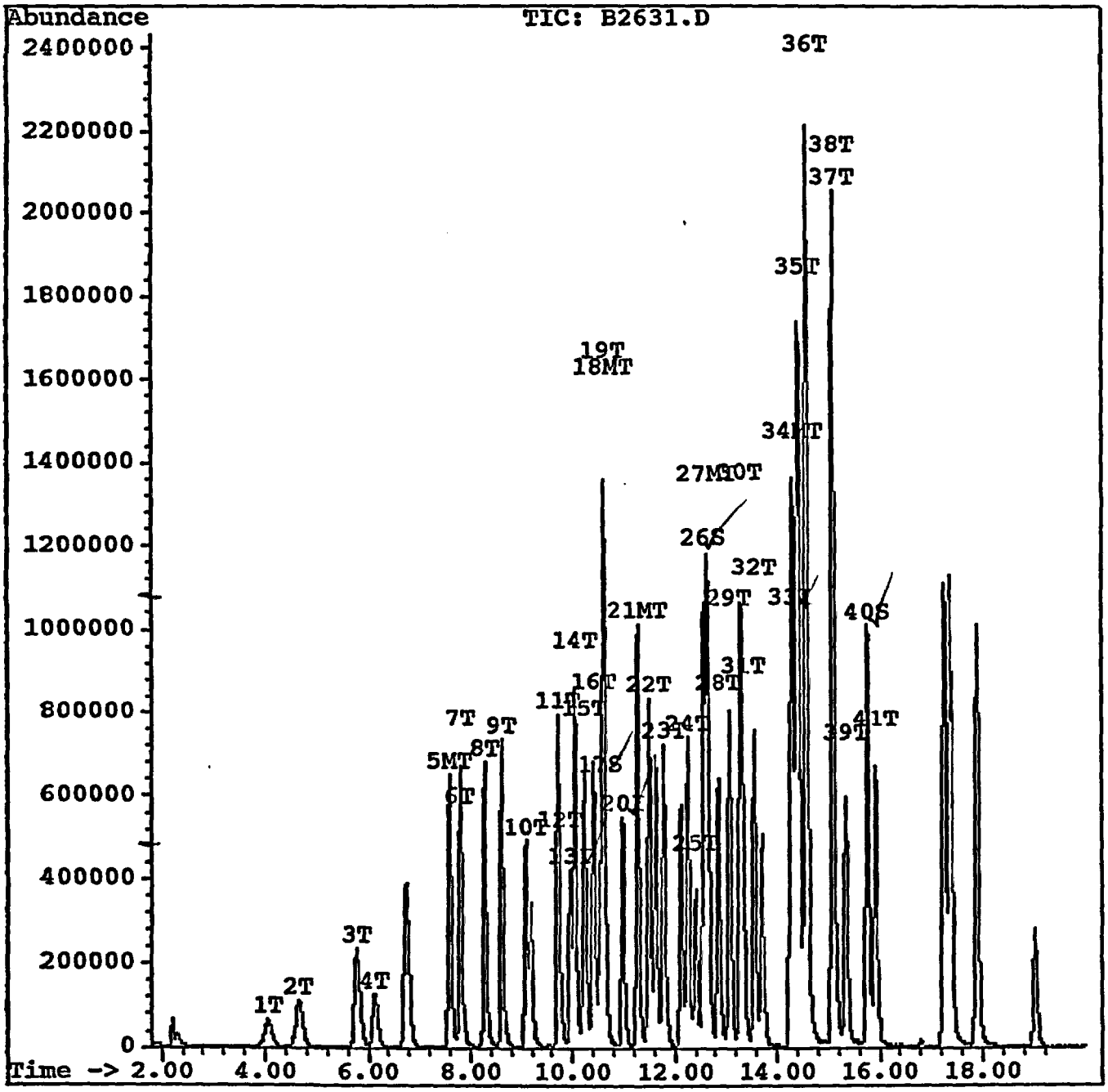
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.91	83	1055322	68.59	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 14:04
Data File: C:\032196A\B2631.D RD
Name: VSTD100IR 032696 V-96-446
Misc: HP1*AATSLA*VSTD100*5g*MS317
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

000113



QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 14:31
Data File: C:\032196A\B2632.D RD
Name: VSTD010IR 032696 V-96-444
Misc: HP1*AATSLA*VSTD010*5g*MS317
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

000114

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.94	128	207953	50.00	ug/L	-0.01
20) CI10 1,4-Difluorobenzene	10.96	114	937561	50.00	ug/L	-0.01
33) CI20 D5-Chlorobenzene	14.24	117	748070	50.00	ug/L	-0.02
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.52	65	56354	9.13	ug/L	18.26%
26) CS05 D8-Toluene SU2	12.54	98	179690	9.80	ug/L	19.60%
40) CS10 p-Bromofluorobenzene	15.74	95	115642	9.72	ug/L	19.45%
Target Compounds						ISTD#
1) C010 Chloromethane	4.01	50	33318	11.81	ug/L	001#
2) C020 Vinyl chloride	4.63	62	62289	10.10	ug/L	001#
3) C015 Bromomethane	5.77	94	76283	10.58	ug/L	001#
4) C025 Chloroethane	6.08	64	49486	10.12	ug/L	001#
5) C045 1,1-Dichloroethene	7.57	96	70892	10.38	ug/L	001
6) C035 Acetone	7.72	43	22487	8.57	ug/L	001#
7) C040 Carbon disulfide	7.79	76	215319	10.42	ug/L	001
8) C030 Methylene chloride	8.26	84	68603	10.47	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.59	96	68649	10.37	ug/L	001
10) C050 1,1-Dichloroethane	9.06	63	125676	10.61	ug/L	001#
11) C055 cis-1,2-Dichloroethen	9.69	96	73662	10.06	ug/L	001
12) C110 2-Butanone	9.74	43	41340	7.56	ug/L	001#
14) C060 Chloroform	10.03	83	134180	10.57	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.21	97	110776	10.55	ug/L	002#
16) C120 Carbon tetrachloride	10.39	117	109603	10.17	ug/L	002#
18) C165 Benzene	10.59	78	207574	10.81	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.60	62	71877	9.92	ug/L	001#
21) C150 Trichloroethene	11.25	130	85803	10.01	ug/L	002
22) C140 1,2-Dichloropropane	11.48	63	93826	10.46	ug/L	002#
23) C130 Bromodichloromethane	11.76	83	114086	10.08	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.28	75	115821	10.46	ug/L	002
25) C205 4-Methyl-2-pentanone	12.39	43	81640	6.16	ug/L	003#
27) C230 Toluene	12.61	91	227422	11.08	ug/L	003
28) C172 trans-1,3-Dichloropro	12.83	75	93893	10.18	ug/L	002#
29) C160 1,1,2-Trichloroethane	13.05	97	72725	9.31	ug/L	002
30) C220 Tetrachloroethene	13.26	164	67939	10.45	ug/L	003
31) C210 2-Hexanone	13.32	43	65269	6.71	ug/L	003#
32) C155 Dibromochloromethane	13.53	129	108832	9.28	ug/L	002#
34) C235 Chlorobenzene	14.28	112	166934	10.45	ug/L	003#
35) C240 Ethyl benzene	14.39	106	76027	10.99	ug/L	003
36) C299 m,p-Xylene	14.54	106	202726	21.46	ug/L	003
37) C250 o-Xylene	15.06	106	101702	11.18	ug/L	003
38) C245 Styrene	15.06	104	157920	10.70	ug/L	003
39) C180 Bromoform	15.32	173	69646	7.86	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 14:31
Data File: C:\032196A\B2632.D RD
Name: VSTD010IR 032696 V-96-444
Misc: HP1*AATSLA*VSTD010*5g*MS317
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

000115

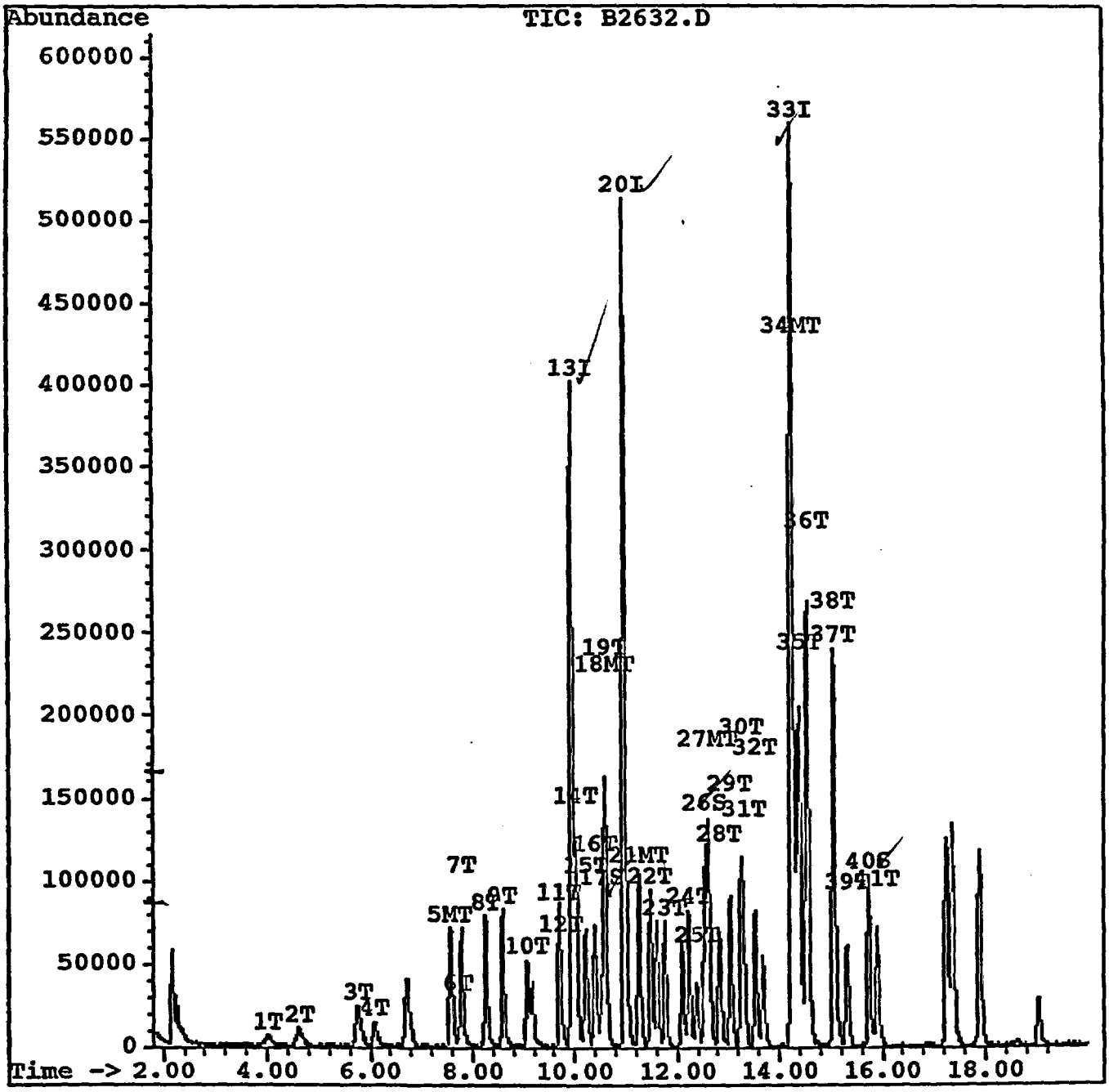
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.90	83	117865	7.84	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 21 Mar 96 14:31
Data File: C:\032196A\B2632.D RD
Name: VSTD010|R 032696 V-96-444
Misc: HP1*AATSLA*VSTD010*5g*MS317
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Thu Mar 21 16:15:40 1996
Quantitated using Single Level Calibration

000116



VOLATILE ORGANICS INITIAL CALIBRATION DATA

000117

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP1 Calibration Date(s): 03/31/96 03/31/96

Heated Purge: (Y/N): Y Calibration Times: 0751 0947

GC Column: CAP ID: 0.530 (mm)

LAB FILE ID: RRF10 = B2869 RRF20 = B2868
RRF50= B2865 RRF100= B2867 RRF200= B2866

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	0.438	0.584	1.044	0.718	0.940	0.745	33.4
* Bromomethane	1.687	1.668	2.045	1.899	1.818	1.823	8.6*
* Vinyl Chloride	1.119	1.279	1.804	1.531	1.643	1.475	18.7*
Chloroethane	1.089	1.100	1.312	1.245	1.181	1.185	8.0
Methylene Chloride	1.584	1.576	1.711	1.726	1.593	1.638	4.5
Acetone	0.753	0.672	0.678	0.527	0.452	0.616	20.0
Carbon Disulfide	4.628	4.655	5.596	5.287	4.910	5.015	8.4
* 1,1-Dichloroethene	1.569	1.568	1.841	1.770	1.694	1.688	7.2*
* 1,1-Dichloroethane	2.796	2.824	3.058	3.102	2.881	2.932	4.7*
1,2-Dichloroethene (total)	1.521	1.516	1.724	1.714	1.623	1.620	6.2
* Chloroform	2.512	2.523	2.732	2.787	2.566	2.624	4.8*
* 1,2-Dichloroethane	1.513	1.380	1.151	1.596	1.317	1.391	12.5*
2-Butanone	1.117	0.956	0.908	0.711	0.531	0.845	26.9
* 1,1,1-Trichloroethane	0.411	0.413	0.408	0.429	0.368	0.406	5.6*
* Carbon Tetrachloride	0.412	0.415	0.421	0.454	0.375	0.415	6.8*
* Bromodichloromethane	0.568	0.566	0.535	0.588	0.482	0.548	7.6*
1,2-Dichloropropane	0.447	0.438	0.419	0.449	0.374	0.425	7.3
* cis-1,3-Dichloropropene	0.558	0.562	0.531	0.581	0.475	0.541	7.6*
* Trichloroethene	0.405	0.401	0.415	0.433	0.377	0.406	5.0*
* Dibromochloromethane	0.549	0.553	0.479	0.562	0.428	0.514	11.4*
* 1,1,2-Trichloroethane	0.380	0.370	0.304	0.358	0.266	0.336	14.5*
* Benzene	0.826	0.754	0.662	0.862	0.727	0.766	10.4*
* trans-1,3-Dichloropropene	0.467	0.466	0.413	0.467	0.368	0.436	10.2*
* Bromoform	0.425	0.415	0.313	0.394	0.276	0.365	18.2*
4-Methyl-2-Pentanone	0.823	0.693	0.487	0.531	0.325	0.572	33.6
2-Hexanone	0.632	0.515	0.492	0.394	0.292	0.465	27.6
* Tetrachloroethene	0.385	0.386	0.412	0.430	0.390	0.401	4.9*
* 1,1,2,2-Tetrachloroethane	0.957	0.883	0.629	0.781	0.526	0.755	23.5*
* Toluene	1.291	1.295	1.289	1.325	1.176	1.275	4.5*
* Chlorobenzene	0.948	0.968	0.989	1.040	0.931	0.975	4.3*
* Ethylbenzene	0.417	0.422	0.416	0.440	0.388	0.417	4.5*
* Styrene	0.895	0.921	0.921	0.974	0.844	0.911	5.2*
* Xylene (total)	0.543	0.567	0.555	0.581	0.520	0.553	4.2*
Toluene-d8	1.150	1.137	1.212	1.180	1.015	1.139	6.6
* Bromofluorobenzene	0.810	0.786	0.771	0.796	0.665	0.766	7.6*
1,2-Dichloroethane-d4	1.189	1.110	1.039	1.292	1.037	1.133	9.6

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

Calibration Table Status Report

Method: OLM03S.M Protocol: CLP 3/90
Title: OLM03.0 SOIL
Calibration Date: Sun Mar 31 10:55:09 1996 Inst: HP1

000118

Calibration File IDs
200 =B2866.D 100 =B2867.D 20 =B2868.D
10 =B2869.D 50 =B2865.D

	Compound	200	100	20	10	50	Avg	%RSD
13	CI01 Bromochloromethan	----------			ISTD	----------		
1	C010 Chloromethane	0.941	0.720	0.584	0.438	1.044	0.745	33.41
2	C020 Vinyl chloride	1.645	1.531	1.279	1.119	1.808	1.476	18.81
3	C015 Bromomethane	1.819	1.901	1.668	1.687	2.048	1.825	8.64
4	C025 Chloroethane	1.181	1.245	1.100	1.089	1.314	1.186	8.07
5	C045 1,1-Dichloroethen	1.694	1.770	1.568	1.569	1.845	1.689	7.24
6	C035 Acetone	0.452	0.529	0.672	0.753	0.678	0.617	19.91
7	C040 Carbon disulfide	4.916	5.290	4.655	4.649	5.600	5.022	8.28
8	C030 Methylene chlorid	1.595	1.728	1.576	1.584	1.711	1.639	4.54
9	C053 trans-1,2-Dichlor	1.664	1.757	1.548	1.592	1.791	1.670	6.24
10	C050 1,1-Dichloroethan	2.881	3.105	2.824	2.796	3.058	2.933	4.78
11	C055 cis-1,2-Dichloroe	1.584	1.669	1.485	1.450	1.661	1.570	6.36
12	C110 2-Butanone	0.531	0.711	0.956	1.140	0.913	0.850	27.63
14	C060 Chloroform	2.568	2.787	2.523	2.512	2.736	2.625	4.85
17	CS15 D4-1,2-Dichloroet	1.039	1.292	1.110	1.189	1.039	1.134	9.52
19	C065 1,2-Dichloroethan	1.317	1.600	1.380	1.513	1.151	1.392	12.53
20	CI10 1,4-Difluorobenze	----------			ISTD	----------		
15	C115 1,1,1,-Trichloroe	0.368	0.429	0.413	0.410	0.407	0.405	5.58
16	C120 Carbon tetrachlor	0.375	0.454	0.415	0.412	0.421	0.415	6.75
18	C165 Benzene	0.727	0.862	0.755	0.825	0.662	0.766	10.33
21	C150 Trichloroethene	0.377	0.433	0.400	0.405	0.415	0.406	5.01
22	C140 1,2-Dichloropropa	0.374	0.450	0.438	0.446	0.420	0.426	7.27
23	C130 Bromodichlorometh	0.483	0.587	0.565	0.568	0.536	0.548	7.43
24	C143 cis-1,3-Dichlorop	0.475	0.581	0.562	0.558	0.531	0.541	7.62
28	C172 trans-1,3-Dichlor	0.368	0.467	0.465	0.466	0.413	0.436	10.20
29	C160 1,1,2-Trichloroet	0.267	0.358	0.370	0.380	0.304	0.336	14.39
32	C155 Dibromochlorometh	0.428	0.562	0.553	0.548	0.479	0.514	11.30
39	C180 Bromoform	0.276	0.395	0.415	0.424	0.313	0.364	18.16
33	CI20 D5-Chlorobenzene	----------			ISTD	----------		
25	C205 4-Methyl-2-pentan	0.325	0.514	0.682	0.827	0.474	0.564	34.39
26	CS05 D8-Toluene SU2	1.015	1.138	1.113	1.150	1.176	1.118	5.54
27	C230 Toluene	1.176	1.279	1.269	1.291	1.251	1.253	3.62
30	C220 Tetrachloroethene	0.390	0.415	0.378	0.385	0.400	0.393	3.66
31	C210 2-Hexanone	0.293	0.380	0.504	0.632	0.478	0.457	28.17
34	C235 Chlorobenzene	0.932	1.003	0.948	0.948	0.958	0.958	2.80
35	C240 Ethyl benzene	0.388	0.439	0.428	0.433	0.418	0.421	4.77
36	C299 m,p-Xylene	0.539	0.579	0.565	0.550	0.553	0.557	2.71
37	C250 o-Xylene	0.520	0.561	0.555	0.543	0.539	0.544	2.91
38	C245 Styrene	0.845	0.940	0.902	0.895	0.894	0.895	3.80
40	CS10 p-Bromofluorobenz	0.671	0.775	0.770	0.820	0.747	0.757	7.22
41	C225 1,1,2,2-Tetrachlo	0.526	0.753	0.865	0.957	0.611	0.742	23.85*

* = QC Criteria Failed ** = % RSD > 40, Calibration Failed
# = Minimun RF Failed, % RSD Passed

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 07:51
Data File: C:\033196A\B2865.D
Name: VSTD050 /E 7/4/1996 V-96-442
Misc: HP1*AATSLA*VSTD050*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Fri Mar 22 10:52:38 1996
Quantitated using Multiple Level Calibration

000119

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.87	128	194277	50.00	ug/L	-0.05
20) CI10 1,4-Difluorobenzene	10.90	114	1031487	50.00	ug/L	-0.05
33) CI20 D5-Chlorobenzene	14.19	117	814208	50.00	ug/L	-0.05
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.46	65	201858	37.69	ug/L	75.38%
26) CS05 D8-Toluene SU2	12.48	98	986855	51.07	ug/L	102.15%
40) CS10 p-Bromofluorobenzene	15.68	95	627486	50.41	ug/L	100.81%
Target Compounds						ISTD#
1) C010 Chloromethane	4.00	50	202808	65.52	ug/L	001#
2) C020 Vinyl chloride	4.59	62	350442	58.52	ug/L	001#
3) C015 Bromomethane	5.72	94	397307	58.35	ug/L	001#
4) C025 Chloroethane	6.04	64	254942	56.29	ug/L	001#
5) C045 1,1-Dichloroethene	7.51	96	357654	56.31	ug/L	001
6) C035 Acetone	7.67	43	131648	67.88	ug/L	001
7) C040 Carbon disulfide	7.73	76	1087135	56.55	ug/L	001
8) C030 Methylene chloride	8.21	84	332353	55.08	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.53	96	347953	56.66	ug/L	001
10) C050 1,1-Dichloroethane	9.00	63	594155	54.20	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.62	96	322037	47.91	ug/L	001
12) C110 2-Butanone	9.66	43	176328	46.45	ug/L	001#
14) C060 Chloroform	9.96	83	530764	45.24	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.15	97	420603	37.25	ug/L	002#
16) C120 Carbon tetrachloride	10.32	117	434144	38.06	ug/L	002#
18) C165 Benzene	10.53	78	682363	33.32	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.54	62	223534	35.40	ug/L	001#
21) C150 Trichloroethene	11.19	130	428067	47.53	ug/L	002
22) C140 1,2-Dichloropropane	11.42	63	432661	45.57	ug/L	002#
23) C130 Bromodichloromethane	11.70	83	552265	46.63	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.18	75	547475	46.38	ug/L	002
25) C205 4-Methyl-2-pentanone	12.35	43	396196	40.05	ug/L	003#
27) C230 Toluene	12.56	91	1049536	47.36	ug/L	003
28) C172 trans-1,3-Dichloropro	12.78	75	425839	44.05	ug/L	002
29) C160 1,1,2-Trichloroethane	13.00	97	313993	41.32	ug/L	002
30) C220 Tetrachloroethene	13.21	164	335851	48.02	ug/L	003
31) C210 2-Hexanone	13.28	43	400413	53.68	ug/L	003#
32) C155 Dibromochloromethane	13.48	129	494289	42.63	ug/L	002#
34) C235 Chlorobenzene	14.22	112	804940	47.32	ug/L	003#
35) C240 Ethyl benzene	14.35	106	338405	45.12	ug/L	003
36) C299 m,p-Xylene	14.49	106	929519	91.76	ug/L	003
37) C250 o-Xylene	15.01	106	451625	45.72	ug/L	003
38) C245 Styrene	15.01	104	749673	47.29	ug/L	003
39) C180 Bromoform	15.27	173	323249	40.32	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 07:51
Data File: C:\033196A\B2865.D
Name: VSTD050/E 7/4/13/96 V-96-442
Misc: HP1*AATSLA*VSTD050*5g*MS3%%
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Fri Mar 22 10:52:38 1996
Quantitated using Multiple Level Calibration

000120

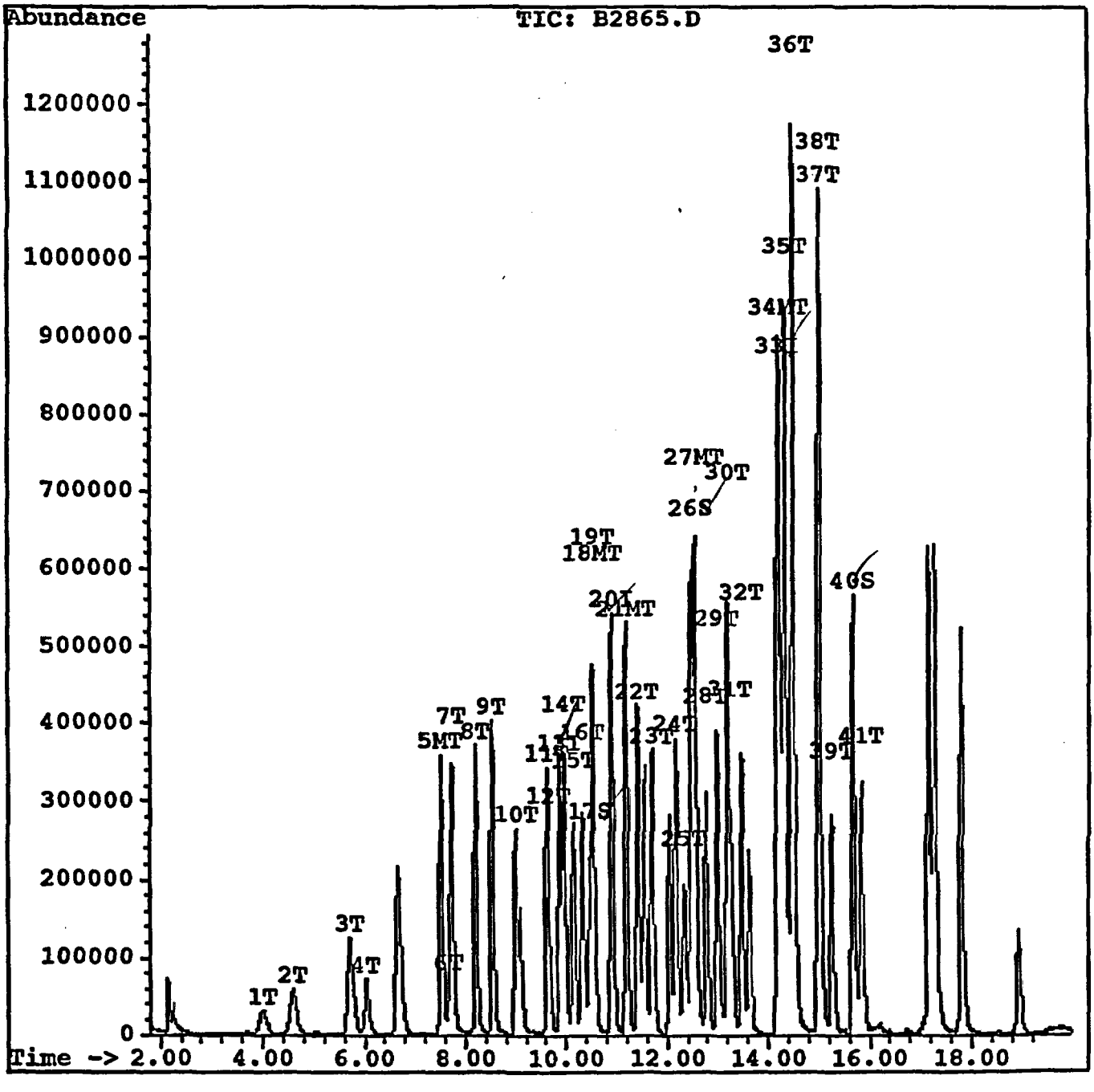
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.84	83	512478	39.15	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 07:51
Data File: C:\033196A\B2865.D
Name: VSTD050/E 4/12/96 V-96-442
Misc: HP1*AATSLA*VSTD050*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Fri Mar 22 10:52:38 1996
Quantitated using Multiple Level Calibration

000121



QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 08:27

000122

Data File: C:\033196A\B2866.D
Name: VSTD200 /E 4/4/96 V-96-446
Misc: HP1*AATSLA*VSTD200*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 08:25:53 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.88	128	185837	50.00	ug/L	0.01
20) CI10 1,4-Difluorobenzene	10.91	114	1047252	50.00	ug/L	0.00
33) CI20 D5-Chlorobenzene	14.19	117	798934	50.00	ug/L	-0.00
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.47	65	770539	199.53	ug/L	399.06%
26) CS05 D8-Toluene SU2	12.49	98	3244264	172.69	ug/L	345.38%
40) CS10 p-Bromofluorobenzene	15.68	95	2123782	177.93	ug/L	355.87%
Target Compounds						ISTD#
1) C010 Chloromethane	4.01	50	698419	180.01	ug/L	001#
2) C020 Vinyl chloride	4.59	62	1221289	181.69	ug/L	001#
3) C015 Bromomethane	5.72	94	1351153	177.49	ug/L	001#
4) C025 Chloroethane	6.04	64	877645	179.75	ug/L	001#
5) C045 1,1-Dichloroethene	7.52	96	1259422	183.69	ug/L	001
6) C035 Acetone	7.71	43	335753	133.31	ug/L	001
7) C040 Carbon disulfide	7.73	76	3650038	175.36	ug/L	001
8) C030 Methylene chloride	8.22	84	1184431	186.28	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.54	96	1235609	185.62	ug/L	001
10) C050 1,1-Dichloroethane	9.00	63	2141460	188.40	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.63	96	1177225	190.69	ug/L	001
12) C110 2-Butanone	9.68	43	394388	116.24	ug/L	001
14) C060 Chloroform	9.97	83	1907538	187.60	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.15	97	1540551	180.51	ug/L	002#
16) C120 Carbon tetrachloride	10.33	117	1571005	178.34	ug/L	002#
18) C165 Benzene	10.53	78	3046924	219.59	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.55	62	979230	228.98	ug/L	001#
21) C150 Trichloroethene	11.19	130	1578397	181.72	ug/L	002
22) C140 1,2-Dichloropropane	11.42	63	1565915	178.22	ug/L	002#
23) C130 Bromodichloromethane	11.71	83	2020796	180.10	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.18	75	1988234	178.68	ug/L	002
25) C205 4-Methyl-2-pentanone	12.35	43	1039897	137.36	ug/L	003#
27) C230 Toluene	12.57	91	3759034	188.12	ug/L	003
28) C172 trans-1,3-Dichloropro	12.78	75	1540357	178.27	ug/L	002
29) C160 1,1,2-Trichloroethane	13.00	97	1115850	175.14	ug/L	002
30) C220 Tetrachloroethene	13.21	164	1245068	194.89	ug/L	003
31) C210 2-Hexanone	13.26	43	933123	122.27	ug/L	003#
32) C155 Dibromochloromethane	13.48	129	1793976	178.63	ug/L	002#
34) C235 Chlorobenzene	14.23	112	2975768	194.35	ug/L	003#
35) C240 Ethyl benzene	14.35	106	1239139	185.55	ug/L	003
36) C299 m,p-Xylene	14.50	106	3446285	389.83	ug/L	003
37) C250 o-Xylene	15.00	106	1661062	192.93	ug/L	003
38) C245 Styrene	15.02	104	2697087	188.89	ug/L	003
39) C180 Bromoform	15.27	173	1154728	176.05	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 08:27
Data File: C:\033196A\B2866.D
Name: VSTD200 4/4/96 V-96-446
Misc: HP1*AATSLA*VSTD200*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 08:25:53 1996
Quantitated using Single Level Calibration

000123

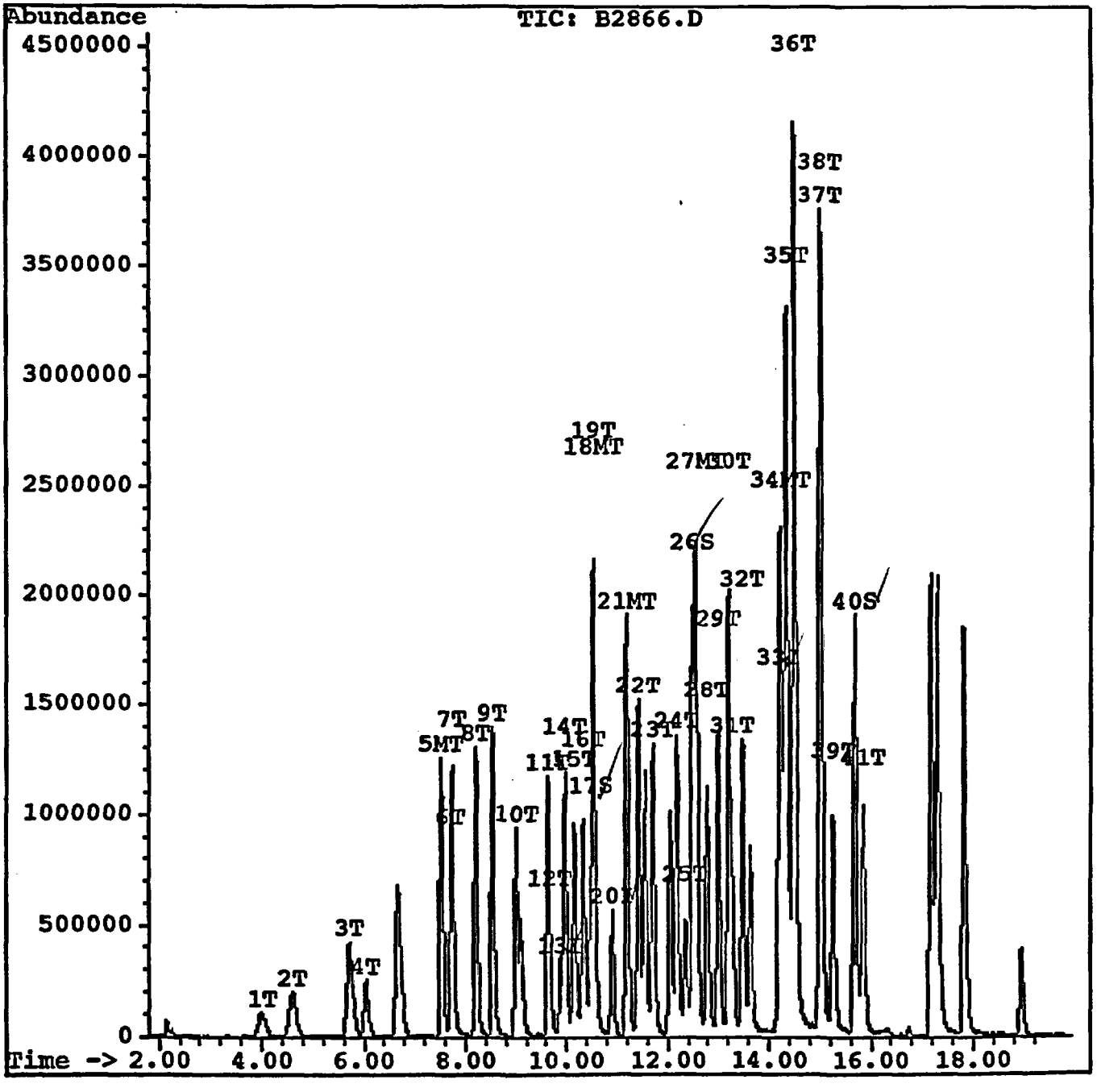
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.84	83	1680154	172.23	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 08:27
Data File: C:\033196A\B2866.D
Name: VSTD200/E 4/12/96 V-96-446
Misc: HP1*AATSLA*VSTD200*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 08:25:53 1996
Quantitated using Single Level Calibration

000124



QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 08:53
Data File: C:\033196A\B2867.D
Name: VSTD100/E 4/12/96 V-96-445
Misc: HP1*AATSLA*VSTD100*5g*MS3%%
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Sun Mar 31 08:57:26 1996
Quantitated using Single Level Calibration

000125

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	179697	50.00	ug/L	0.00
20) CI10 1,4-Difluorobenzene	10.92	114	921571	50.00	ug/L	0.01
33) CI20 D5-Chlorobenzene	14.20	117	727099	50.00	ug/L	0.01
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.48	65	464222	124.32	ug/L	248.63%
26) CS05 D8-Toluene SU2	12.49	98	1716657	100.40	ug/L	200.81%
40) CS10 p-Bromofluorobenzene	15.70	95	1157602	106.57	ug/L	213.14%
Target Compounds						ISTD#
1) C010 Chloromethane	4.00	50	258061	68.78	ug/L	001#
2) C020 Vinyl chloride	4.61	62	550204	84.65	ug/L	001#
3) C015 Bromomethane	5.73	94	682438	92.71	ug/L	001#
4) C025 Chloroethane	6.08	64	447570	94.80	ug/L	001#
5) C045 1,1-Dichloroethene	7.54	96	636102	95.95	ug/L	001
6) C035 Acetone	7.72	43	189569	77.84	ug/L	001
7) C040 Carbon disulfide	7.75	76	1900219	94.41	ug/L	001
8) C030 Methylene chloride	8.23	84	620419	100.91	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.55	96	631636	98.13	ug/L	001
10) C050 1,1-Dichloroethane	9.02	63	1114945	101.44	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.64	96	599811	100.48	ug/L	001
12) C110 2-Butanone	9.69	43	255465	77.87	ug/L	001
14) C060 Chloroform	9.98	83	1001640	101.87	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.11	97	790981	105.32	ug/L	002#
16) C120 Carbon tetrachloride	10.35	117	837411	108.03	ug/L	002#
18) C165 Benzene	10.54	78	1588342	130.08	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.55	62	573712	138.74	ug/L	001#
21) C150 Trichloroethene	11.20	130	797188	104.30	ug/L	002
22) C140 1,2-Dichloropropane	11.43	63	828193	107.11	ug/L	002#
23) C130 Bromodichloromethane	11.72	83	1083305	109.72	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.19	75	1070261	109.30	ug/L	002
25) C205 4-Methyl-2-pentanone	12.36	43	771470	111.97	ug/L	003#
27) C230 Toluene	12.57	91	1927117	105.97	ug/L	003
28) C172 trans-1,3-Dichloropro	12.79	75	860865	113.22	ug/L	002
29) C160 1,1,2-Trichloroethane	13.00	97	659292	117.59	ug/L	002
30) C220 Tetrachloroethene	13.21	164	624937	107.49	ug/L	003
31) C210 2-Hexanone	13.29	43	572755	82.46	ug/L	003#
32) C155 Dibromochloromethane	13.49	129	1036574	117.29	ug/L	002#
34) C235 Chlorobenzene	14.24	112	1512511	108.54	ug/L	003#
35) C240 Ethyl benzene	14.36	106	639419	105.21	ug/L	003
36) C299 m,p-Xylene	14.51	106	1743869	216.75	ug/L	003
37) C250 o-Xylene	15.01	106	844844	107.82	ug/L	003
38) C245 Styrene	15.03	104	1416989	109.04	ug/L	003
39) C180 Bromoform	15.28	173	727053	125.97	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 08:53
Data File: C:\033196A\B2867.D
Name: VSTD100/E 4/2/96 V-96-445
Misc: HP1*AATSLA*VSTD100*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 08:57:26 1996
Quantitated using Single Level Calibration

000126

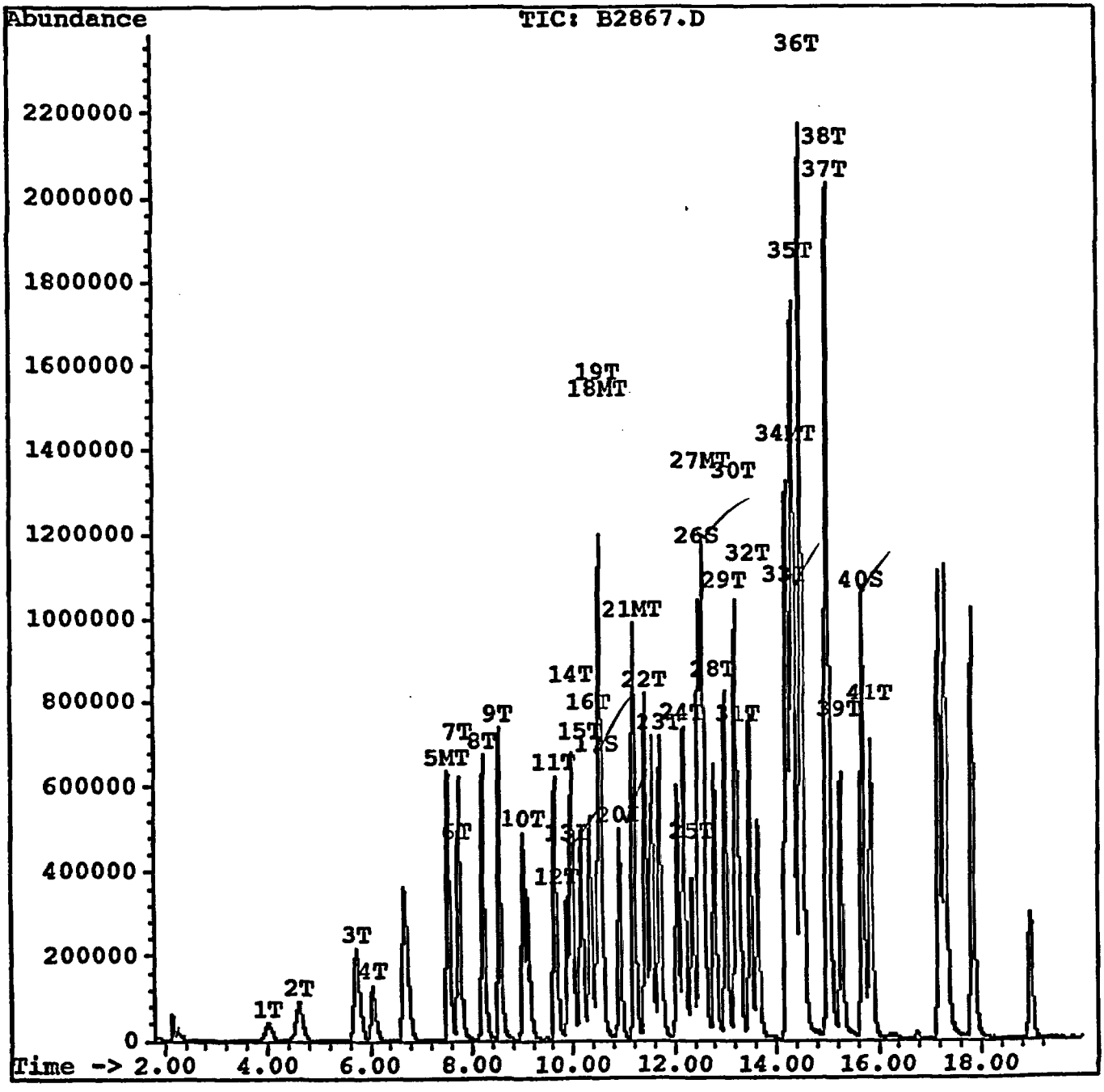
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.86	83	1135379	127.89	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 08:53
Data File: C:\033196A\B2867.D
Name: VSTD100/E 4/18/96 V-96-445
Misc: HP1*AATSLA*VSTD100*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 08:57:26 1996
Quantitated using Single Level Calibration

000127



QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 09:20
Data File: C:\033196A\B2868.D
Name: VSTD020 1E 7/9/12/16 V-96-444
Misc: HP1*AATSLA*VSTD020*5g*MS3%%
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Sun Mar 31 08:57:26 1996
Quantitated using Single Level Calibration

000128

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
Internal Standards							
13)	CI01 Bromochloromethane	9.89	128	197882	50.00	ug/L	0.01
20)	CI10 1,4-Difluorobenzene	10.92	114	946962	50.00	ug/L	0.02
33)	CI20 D5-Chlorobenzene	14.21	117	766414	50.00	ug/L	0.02
System Monitoring Compounds							%Recovery
17)	CS15 D4-1,2-Dichloroethane	10.48	65	87870	21.37	ug/L	42.74%
26)	CS05 D8-Toluene SU2	12.51	98	348440	19.33	ug/L	38.67%
40)	CS10 p-Bromofluorobenzene	15.70	95	241080	21.06	ug/L	42.11%
Target Compounds							ISTD#
1)	C010 Chloromethane	4.01	50	46261	11.20	ug/L	001#
2)	C020 Vinyl chloride	4.62	62	101201	14.14	ug/L	001#
3)	C015 Bromomethane	5.73	94	132014	16.29	ug/L	001#
4)	C025 Chloroethane	6.05	64	87064	16.75	ug/L	001#
5)	C045 1,1-Dichloroethene	7.54	96	124096	17.00	ug/L	001
6)	C035 Acetone	7.71	43	53164	19.82	ug/L	001
7)	C040 Carbon disulfide	7.75	76	368487	16.63	ug/L	001
8)	C030 Methylene chloride	8.23	84	124715	18.42	ug/L	001#
9)	C053 trans-1,2-Dichloroeth	8.55	96	122490	17.28	ug/L	001
10)	C050 1,1-Dichloroethane	9.02	63	223547	18.47	ug/L	001#
11)	C055 cis-1,2-Dichloroethen	9.65	96	117567	17.88	ug/L	001
12)	C110 2-Butanone	9.68	43	75661	20.94	ug/L	001#
14)	C060 Chloroform	9.98	83	199692	18.44	ug/L	001
15)	C115 1,1,1,-Trichloroethan	10.17	97	156453	20.27	ug/L	002#
16)	C120 Carbon tetrachloride	10.35	117	157193	19.73	ug/L	002#
18)	C165 Benzene	10.55	78	285554	22.76	ug/L	002
19)	C065 1,2-Dichloroethane-DC	10.56	62	109207	23.98	ug/L	001#
21)	C150 Trichloroethene	11.21	130	151751	19.32	ug/L	002
22)	C140 1,2-Dichloropropane	11.44	63	166012	20.89	ug/L	002#
23)	C130 Bromodichloromethane	11.72	83	214331	21.13	ug/L	002
24)	C143 cis-1,3-Dichloroprope	12.19	75	212879	21.16	ug/L	002
25)	C205 4-Methyl-2-pentanone	12.36	43	212329	29.24	ug/L	003#
27)	C230 Toluene	12.58	91	397043	20.71	ug/L	003
28)	C172 trans-1,3-Dichloropro	12.80	75	176409	22.58	ug/L	002
29)	C160 1,1,2-Trichloroethane	13.02	97	140156	24.33	ug/L	002
30)	C220 Tetrachloroethene	13.23	164	118287	19.30	ug/L	003
31)	C210 2-Hexanone	13.31	43	157864	21.56	ug/L	003#
32)	C155 Dibromochloromethane	13.50	129	209429	23.06	ug/L	002#
34)	C235 Chlorobenzene	14.25	112	296762	20.20	ug/L	003#
35)	C240 Ethyl benzene	14.37	106	129310	20.18	ug/L	003
36)	C299 m,p-Xylene	14.52	106	353389	41.67	ug/L	003
37)	C250 o-Xylene	15.03	106	173727	21.03	ug/L	003
38)	C245 Styrene	15.04	104	282455	20.62	ug/L	003
39)	C180 Bromoform	15.28	173	157118	26.49	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 09:20
Data File: C:\033196A\B2868.D
Name: VSTD020/E 4/10/96 V-96-444
Misc: HP1*AATSLA*VSTD020*5g*MS3%%
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Sun Mar 31 08:57:26 1996
Quantitated using Single Level Calibration

000129

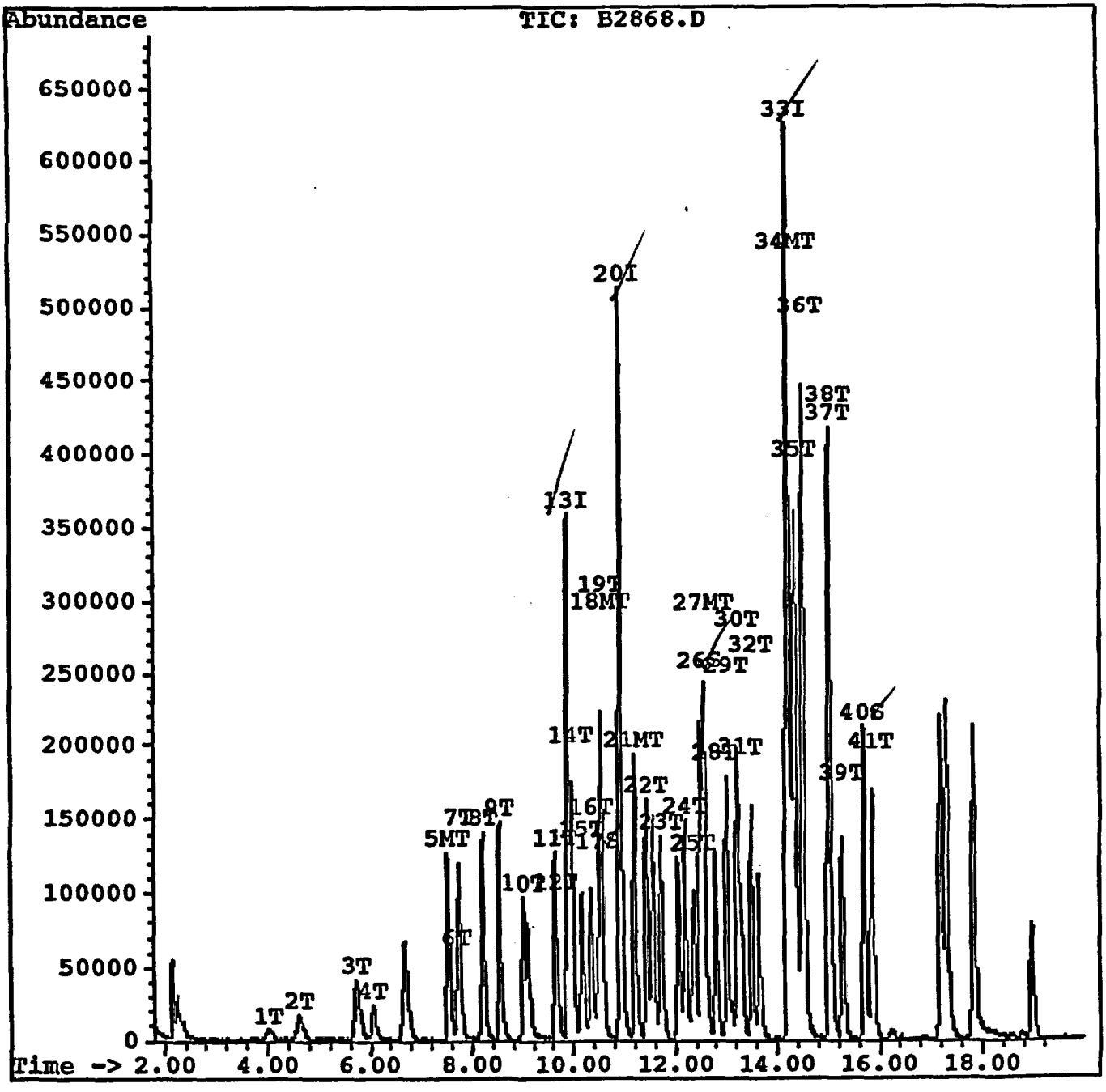
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.87	83	270708	28.93	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 09:20
Data File: C:\033196A\B2868.D
Name: VSTD020/E 4/1/96 V-96-444
Misc: HP1*AATSLA*VSTD020*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 08:57:26 1996
Quantitated using Single Level Calibration

000130



QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 09:47
Data File: C:\033196A\B2869.D
Name: VSTD010/E 7/4/12/16/ V-96-443
Misc: HP1*AATSLA*VSTD010*5g*MS3%%
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Sun Mar 31 10:57:56 1996
Quantitated using Single Level Calibration

000131

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	205857	50.00	ug/L	0.00
20) CI10 1,4-Difluorobenzene	10.92	114	973230	50.00	ug/L	-0.00
33) CI20 D5-Chlorobenzene	14.21	117	803192	50.00	ug/L	-0.01
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.49	65	48970	11.45	ug/L	22.89%
26) CS05 D8-Toluene SU2	12.50	98	184752	9.78	ug/L	19.56%
40) CS10 p-Bromofluorobenzene	15.71	95	130080	10.84	ug/L	21.68%
Target Compounds						ISTD#
1) C010 Chloromethane	4.01	50	18050	4.20	ug/L	001m
2) C020 Vinyl chloride	4.63	62	46072	6.19	ug/L	001#
3) C015 Bromomethane	5.75	94	69457	8.24	ug/L	001#
4) C025 Chloroethane	6.07	64	44846	8.29	ug/L	001#
5) C045 1,1-Dichloroethene	7.58	96	64611	8.51	ug/L	001
6) C035 Acetone	7.71	43	31022	11.12	ug/L	001
7) C040 Carbon disulfide	7.76	76	190558	8.26	ug/L	001
8) C030 Methylene chloride	8.24	84	65209	9.26	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.56	96	65530	8.89	ug/L	001
10) C050 1,1-Dichloroethane	9.02	63	115120	9.14	ug/L	001#
11) C055 cis-1,2-Dichloroethen	9.65	96	59701	8.73	ug/L	001
12) C110 2-Butanone	9.70	43	46001	12.24	ug/L	001#
14) C060 Chloroform	9.99	83	103414	9.18	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.17	97	79949	10.08	ug/L	002#
16) C120 Carbon tetrachloride	10.35	117	80199	9.80	ug/L	002m
18) C165 Benzene	10.54	78	160764	12.47	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.57	62	62284	13.15	ug/L	001#
21) C150 Trichloroethene	11.21	130	78884	9.77	ug/L	002
22) C140 1,2-Dichloropropane	11.44	63	86926	10.65	ug/L	002#
23) C130 Bromodichloromethane	11.72	83	110566	10.60	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.20	75	108625	10.50	ug/L	002
25) C205 4-Methyl-2-pentanone	12.36	43	132169	17.37	ug/L	003#
27) C230 Toluene	12.58	91	207385	10.32	ug/L	003
28) C172 trans-1,3-Dichloropro	12.79	75	90809	11.31	ug/L	002
29) C160 1,1,2-Trichloroethane	13.02	97	74019	12.50	ug/L	002
30) C220 Tetrachloroethene	13.22	164	61773	9.62	ug/L	003
31) C210 2-Hexanone	13.30	43	101554	13.24	ug/L	003#
32) C155 Dibromochloromethane	13.51	129	106766	11.44	ug/L	002#
34) C235 Chlorobenzene	14.25	112	152337	9.90	ug/L	003#
35) C240 Ethyl benzene	14.38	106	66926	9.97	ug/L	003
36) C299 m,p-Xylene	14.51	106	176592	19.87	ug/L	003
37) C250 o-Xylene	15.03	106	87276	10.08	ug/L	003
38) C245 Styrene	15.04	104	143758	10.01	ug/L	003
39) C180 Bromoform	15.29	173	82679	13.56	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 09:47
Data File: C:\033196A\B2869.D
Name: VSTD010/5 V 4/12/96 V-96-443
Misc: HP1*AATSLA*VSTD010*5g*MS3%%
Method: OLM03S.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Sun Mar 31 10:57:56 1996
Quantitated using Single Level Calibration

000132

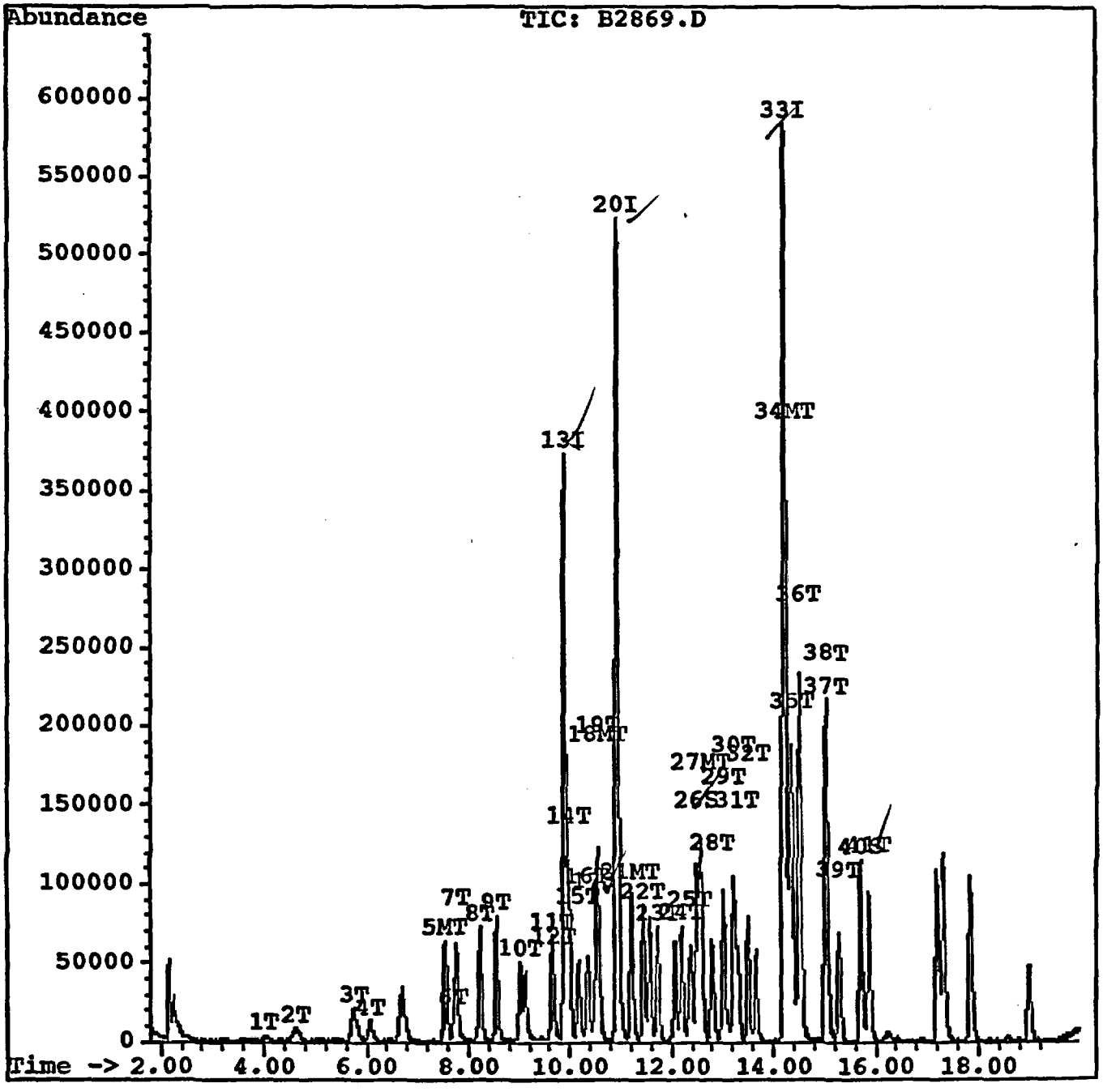
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.87	83	153759	15.68	ug/L	003#

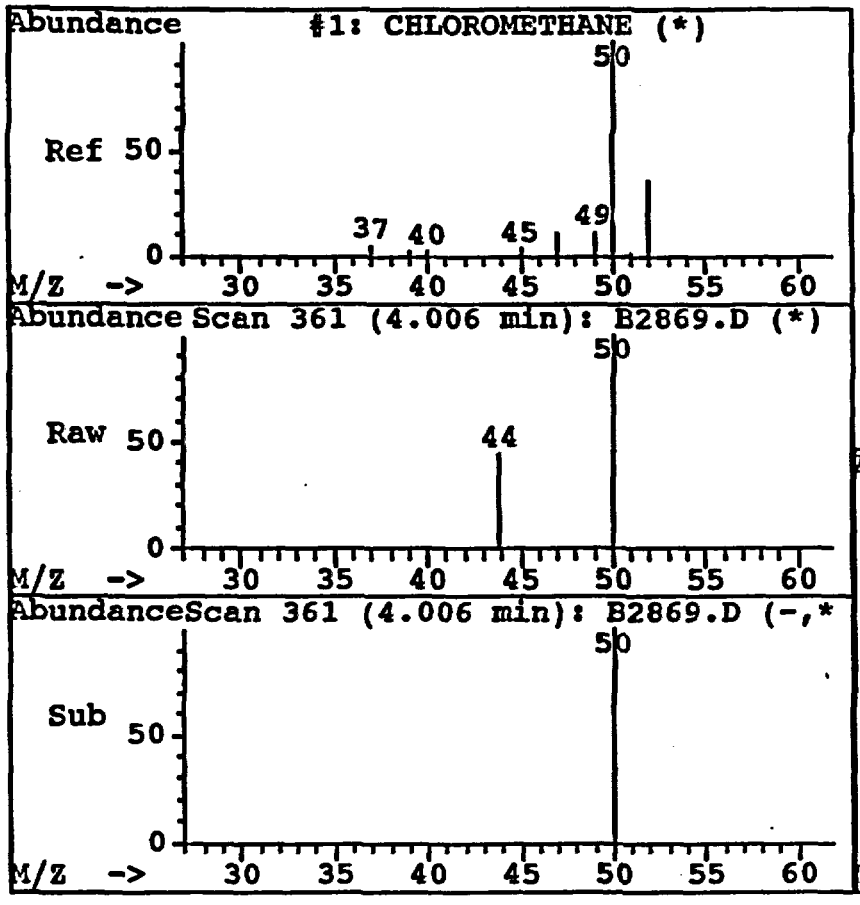
(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 09:47
Data File: C:\033196A\B2869.D
Name: VSTD010/E 4/14/96 V-96-443
Misc: HP1*AATSLA*VSTD010*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 10:57:56 1996
Quantitated using Single Level Calibration

000133

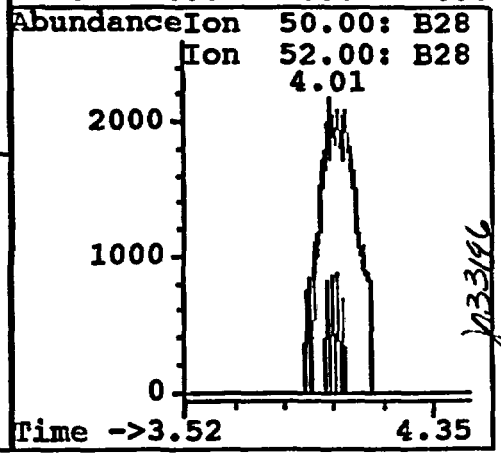


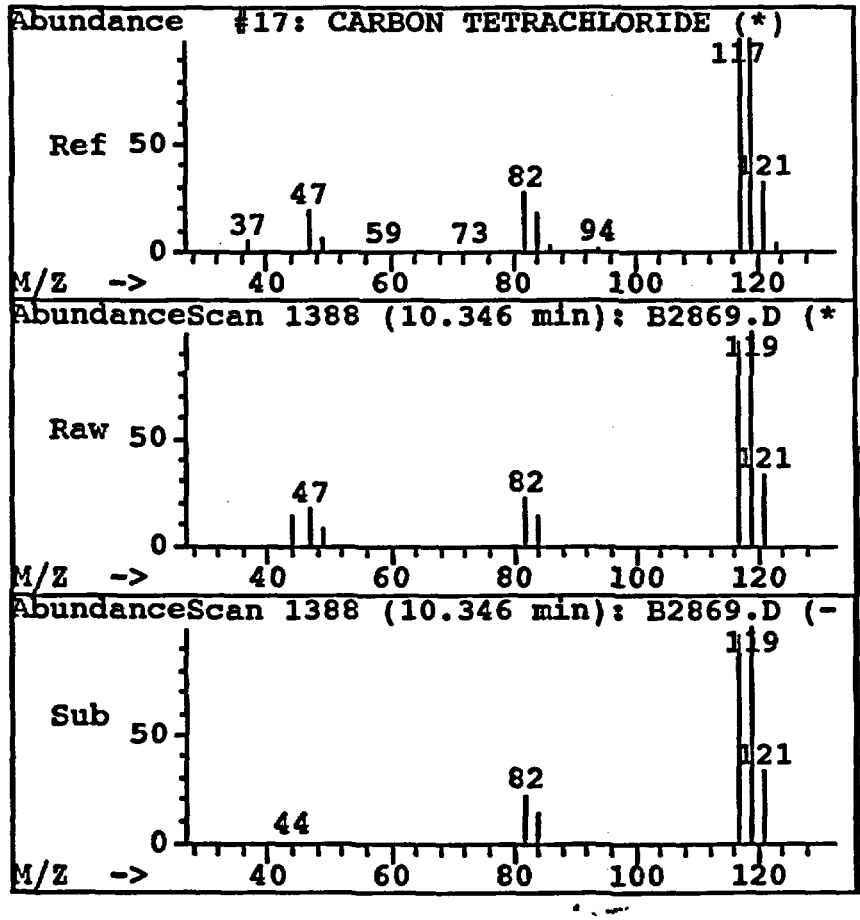


#1 Inst: HP1
C010 Chloromethane **000134**
Concen: 4.20 ug/L m
RT: 4.01 min Scan# 361
Delta R.T. -0.00 min
Lab File: B2869.D
Acq: 31 Mar 96 09:47
VSTD010 1/2 1/3/96

Tgt Ion: 50 Area: 18050

Ion	Ratio	Lower	Upper
50	100		
52	0.0	6.7	10.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

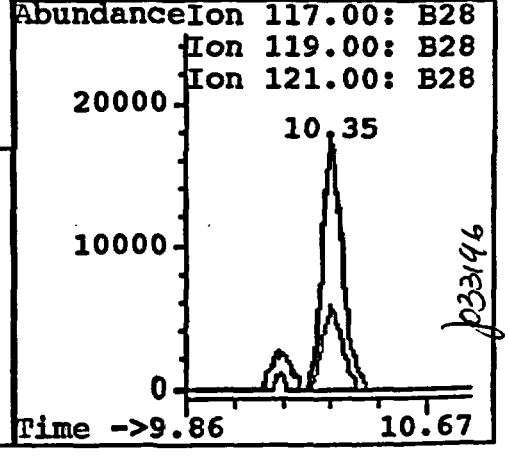




#16 Inst: HP1
C120 Carbon tetrachloride
Concen: 9.80 ug/L m
RT: 10.35 min Scan# 1388
Delta R.T. -0.00 min
Lab File: B2869.D
Acq: 31 Mar 96 09:47
VSTD010 1/6 2/4/1/96

Tgt Ion: 117 Area: 80199

Ion	Ratio	Lower	Upper
117	100		
119	14.3	80.2	120.2#
121	1.9	12.9	19.3#
0	0.0	0.0	0.0



7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP1 Calibration date: 03/30/96 Time: 0740

Lab File ID: B2831 Init. Calib. Date(s): 03/21/96 03/21/96

Heated Purge: (Y/N) Y Init. Calib. Times: 1218 1431

GC Column: CAP ID: 0.530 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.796	0.478		-40.0	
Bromomethane	1.750	1.914	0.100	9.4	25.0
Vinyl Chloride	1.541	1.219	0.100	-20.9	25.0
Chloroethane	1.165	1.249		7.2	
Methylene Chloride	1.552	1.676		8.0	
Acetone	0.498	0.394		-20.9	
Carbon Disulfide	4.947	4.480		-9.4	
1,1-Dichloroethene	1.634	1.590	0.100	-2.7	25.0
1,1-Dichloroethane	2.820	2.932	0.200	4.0	25.0
1,2-Dichloroethene (total)	1.654	1.666		0.7	
Chloroform	3.019	2.644	0.200	-12.4	25.0
1,2-Dichloroethane	1.625	1.671	0.100	2.8	25.0
2-Butanone	0.974	0.685		-29.7	
1,1,1-Trichloroethane	0.548	0.409	0.100	-25.4	25.0
Carbon Tetrachloride	0.553	0.416	0.100	-24.8	25.0
Bromodichloromethane	0.574	0.587	0.200	2.3	25.0
1,2-Dichloropropane	0.460	0.448		-2.6	
cis-1,3-Dichloropropene	0.572	0.578	0.200	1.0	25.0
Trichloroethene	0.437	0.433	0.300	-0.9	25.0
Dibromochloromethane	0.562	0.540	0.100	-3.9	25.0
1,1,2-Trichloroethane	0.368	0.356	0.100	-3.3	25.0
Benzene	0.993	0.934	0.500	-5.9	25.0
trans-1,3-Dichloropropene	0.468	0.463	0.100	-1.1	25.0
Bromoform	0.389	0.401	0.100	3.1	25.0
4-Methyl-2-Pentanone	0.617	0.509		-17.5	
2-Hexanone	0.466	0.368		-21.0	
Tetrachloroethene	0.436	0.414	0.200	-5.0	25.0
1,1,2,2-Tetrachloroethane	0.817	0.772	0.500	-5.5	25.0
Toluene	1.379	1.303	0.400	-5.5	25.0
Chlorobenzene	1.060	1.033	0.500	-2.5	25.0
Ethylbenzene	0.461	0.441	0.100	-4.3	25.0
Styrene	0.987	0.965	0.300	-2.2	25.0
Xylene (total)	0.615	0.584	0.300	-5.0	25.0
Toluene-d8	1.204	1.192		-1.0	
Bromofluorobenzene	0.770	0.767	0.200	-0.4	25.0
1,2-Dichloroethane-d4	1.378	1.440		4.5	

All other compounds must meet a minimum RRF of 0.010.

CONTINUING CALIBRATION REPORT

Method: OLM03S1.M Protocol: CLP ~~2/88 OR SW846 8240~~ 3/90 7033096

Title: OLM03.0 SOIL

Continuing Calibration File: B2831.D Inst: HP1

000136

#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
13	I	CI01 Bromochloromethane	1.000	1.000	0.0		
1	T	C010 Chloromethane	0.797	0.478	39.9	0.300	
2	T	C020 Vinyl chloride	1.541	1.223	20.7		25.0
3	T	C015 Bromomethane	1.752	1.914	9.2		
4	T	C025 Chloroethane	1.166	1.249	7.2		
5	MT	C045 1,1-Dichloroethene	1.635	1.590	2.8		25.0
6	T	C040 Carbon disulfide	4.948	4.480	9.4		
7	T	C035 Acetone	0.499	0.394	21.1		
8	T	C030 Methylene chloride	1.553	1.676	7.9		
9	T	C053 trans-1,2-Dichloroethene	1.580	1.689	6.9		
10	T	C050 1,1-Dichloroethane	2.821	2.934	4.0	0.300	
11	T	C055 cis-1,2-Dichloroethene	1.730	1.647	4.8		
12	T	C110 2-Butanone	0.977	0.685	29.9		
14	T	C060 Chloroform	3.020	2.644	12.4		25.0
17	S	CS15 D4-1,2-Dichloroethane SU	1.378	1.440	4.5		
19	T	C065 1,2-Dichloroethane-DCA	1.625	1.671	2.8		
20	I	CI10 1,4-Difluorobenzene	1.000	1.000	0.0		
15	T	C115 1,1,1,-Trichloroethane	0.547	0.409	25.3		
16	T	C120 Carbon tetrachloride	0.553	0.416	24.8		
18	MT	C165 Benzene	0.993	0.934	5.9		
21	MT	C150 Trichloroethene	0.437	0.433	0.9		
22	T	C140 1,2-Dichloropropane	0.460	0.448	2.7		25.0
23	T	C130 Bromodichloromethane	0.574	0.586	2.1		
24	T	C143 cis-1,3-Dichloropropene	0.572	0.579	1.1		
28	T	C172 trans-1,3-Dichloropropen	0.469	0.463	1.3		
29	T	C160 1,1,2-Trichloroethane	0.368	0.356	3.4		
32	T	C155 Dibromochloromethane	0.562	0.540	3.8		
39	T	C180 Bromoform	0.389	0.400	3.0	0.250	
33	I	CI20 D5-Chlorobenzene	1.000	1.000	0.0		
25	T	C205 4-Methyl-2-pentanone	0.608	0.496	18.4		
26	S	CS05 D8-Toluene SU2	1.187	1.156	2.5		
27	MT	C230 Toluene	1.361	1.266	7.0		25.0
30	T	C220 Tetrachloroethene	0.429	0.401	6.6		
31	T	C210 2-Hexanone	0.458	0.359	21.7		
34	MT	C235 Chlorobenzene	1.045	1.002	4.1	0.300	
35	T	C240 Ethyl benzene	0.461	0.428	7.2		25.0
36	T	C299 m,p-Xylene	0.622	0.571	8.2		
37	T	C250 o-Xylene	0.607	0.567	6.6		
38	T	C245 Styrene	0.974	0.938	3.7		
40	S	CS10 p-Bromofluorobenzene SU3	0.764	0.744	2.7		
41	T	C225 1,1,2,2-Tetrachloroethan	0.804	0.748	6.9	0.300	

(*) = QC Criteria Failed (**) = > 25 % Dev., Reanalyze Standard

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 07:40
Data File: C:\033096A\B2831.D
Name: VSTD050 ID 4/4/96 V-96-442
Misc: HP1*AATSLA*VSTD050*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:24:30 1996
Quantitated using Multiple Level Calibration

000137

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.88	128	210127	50.00	ug/L	-0.05
20) CI10 1,4-Difluorobenzene	10.90	114	1056509	50.00	ug/L	-0.05
33) CI20 D5-Chlorobenzene	14.18	117	858282	50.00	ug/L	-0.06
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.46	65	302686	52.26	ug/L	104.51%
26) CS05 D8-Toluene SU2	12.48	98	1023109	50.23	ug/L	100.46%
40) CS10 p-Bromofluorobenzene	15.68	95	658440	50.18	ug/L	100.35%
Target Compounds						ISTD#
1) C010 Chloromethane	3.98	50	100532	30.03	ug/L	001#
2) C020 Vinyl chloride	4.59	62	256226	39.56	ug/L	001#
3) C015 Bromomethane	5.72	94	402079	54.60	ug/L	001#
4) C025 Chloroethane	6.04	64	262537	53.60	ug/L	001#
5) C045 1,1-Dichloroethene	7.53	96	334006	48.62	ug/L	001
6) C035 Acetone	7.80	43	82699	39.43	ug/L	001
7) C040 Carbon disulfide	7.73	76	941461	45.28	ug/L	001
8) C030 Methylene chloride	8.22	84	352089	53.95	ug/L	001#
9) C053 trans-1,2-Dichloroeth	8.55	96	354184	53.33	ug/L	001
10) C050 1,1-Dichloroethane	9.02	63	616081	51.96	ug/L	001
11) C055 cis-1,2-Dichloroethen	9.68	96	346119	47.61	ug/L	001
12) C110 2-Butanone	9.68	43	144020	35.07	ug/L	001
14) C060 Chloroform	9.97	83	555550	43.78	ug/L	001
15) C115 1,1,1,-Trichloroethan	10.15	97	432127	37.36	ug/L	002#
16) C120 Carbon tetrachloride	10.33	117	439823	37.64	ug/L	002#
18) C165 Benzene	10.53	78	987004	47.05	ug/L	002
19) C065 1,2-Dichloroethane-DC	10.54	62	351128	51.41	ug/L	001#
21) C150 Trichloroethene	11.18	130	457548	49.60	ug/L	002
22) C140 1,2-Dichloropropane	11.41	63	473451	48.69	ug/L	002#
23) C130 Bromodichloromethane	11.70	83	619740	51.09	ug/L	002
24) C143 cis-1,3-Dichloroprope	12.17	75	611100	50.55	ug/L	002
25) C205 4-Methyl-2-pentanone	12.32	43	436639	41.87	ug/L	003#
27) C230 Toluene	12.55	91	1118738	47.89	ug/L	003
28) C172 trans-1,3-Dichloropro	12.77	75	489187	49.40	ug/L	002
29) C160 1,1,2-Trichloroethane	12.98	97	376354	48.35	ug/L	002
30) C220 Tetrachloroethene	13.20	164	355003	48.15	ug/L	003
31) C210 2-Hexanone	13.26	43	316000	40.19	ug/L	003#
32) C155 Dibromochloromethane	13.47	129	570654	48.05	ug/L	002#
34) C235 Chlorobenzene	14.22	112	886406	49.43	ug/L	003#
35) C240 Ethyl benzene	14.34	106	378388	47.86	ug/L	003
36) C299 m,p-Xylene	14.49	106	1010905	94.67	ug/L	003
37) C250 o-Xylene	15.00	106	501444	48.15	ug/L	003
38) C245 Styrene	15.01	104	828348	49.57	ug/L	003
39) C180 Bromoform	15.25	173	423347	51.56	ug/L	002#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 07:40

000138

Data File: C:\033096A\B2831.D
Name: VSTD050 LD 4/4/96 V-96-442
Misc: HP1*AATSLA*VSTD050*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:24:30 1996
Quantitated using Multiple Level Calibration

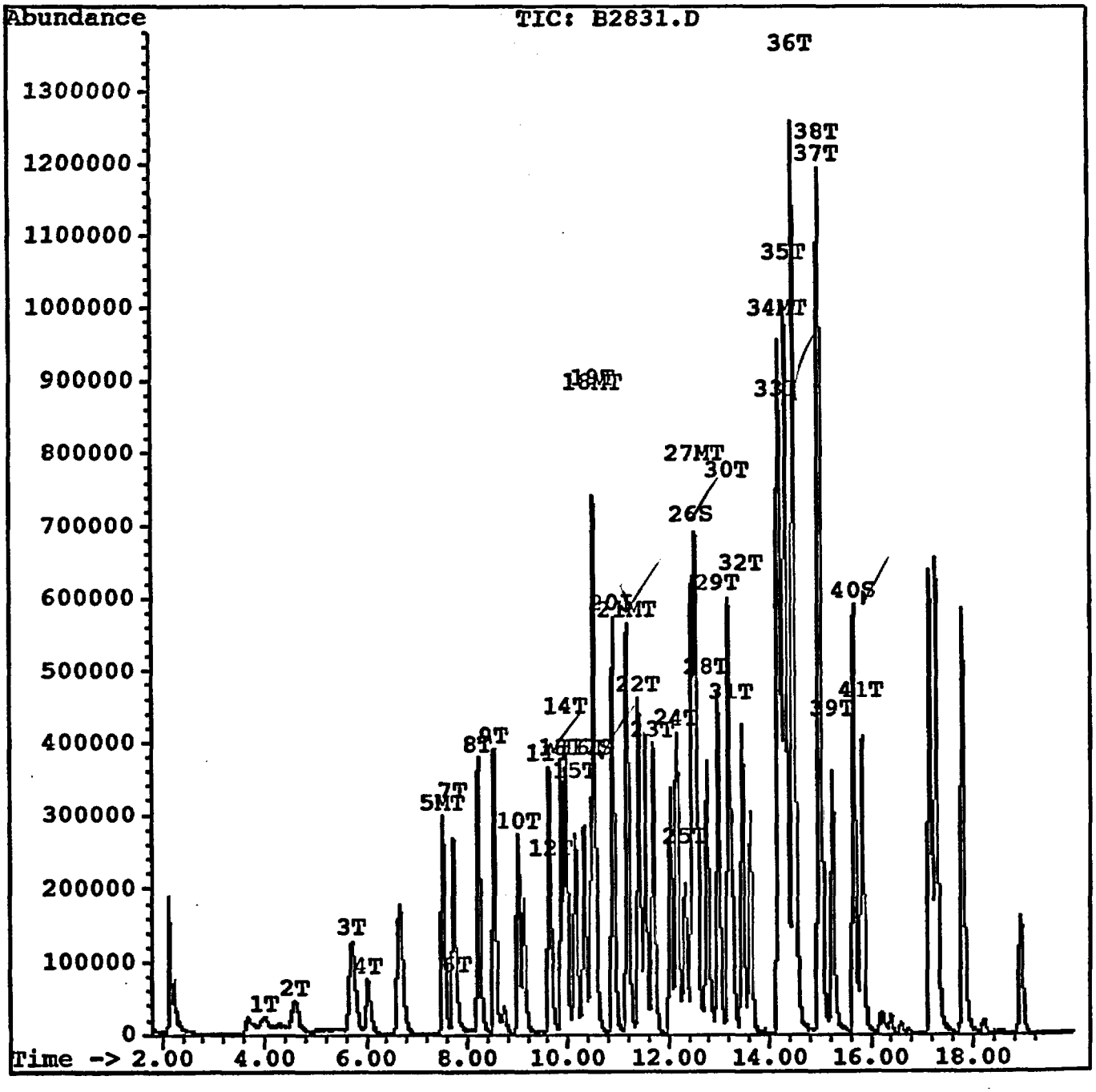
Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
41) C225 1,1,2,2-Tetrachloroet	15.84	83	662201	47.99	ug/L	003#

(#) = qualifier out of range

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 07:40
Data File: C:\033096A\B2831.D
Name: VSTD050 ID 7/24/13/96 V-96-442
Misc: HP1*AATSLA*VSTD050*5g*MS3%%
Method: OLMO3S.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:24:30 1996
Quantitated using Multiple Level Calibration

000139



7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP1 Calibration date: 03/31/96 Time: 0751

Lab File ID: B2865 Init. Calib. Date(s): 03/31/96 03/31/96

Heated Purge: (Y/N) Y Init. Calib. Times: 0751 0947

GC Column: CAP ID: 0.530 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.745	1.044		40.1	
Bromomethane	1.823	2.045	0.100	12.2	25.0
Vinyl Chloride	1.475	1.804	0.100	22.3	25.0
Chloroethane	1.185	1.312		10.7	
Methylene Chloride	1.638	1.711		4.5	
Acetone	0.616	0.678		10.1	
Carbon Disulfide	5.015	5.596		11.6	
1,1-Dichloroethene	1.688	1.841	0.100	9.1	25.0
1,1-Dichloroethane	2.932	3.058	0.200	4.3	25.0
1,2-Dichloroethene (total)	1.620	1.724		6.4	
Chloroform	2.624	2.732	0.200	4.1	25.0
1,2-Dichloroethane	1.391	1.151	0.100	-17.2	25.0
2-Butanone	0.845	0.908		7.5	
1,1,1-Trichloroethane	0.406	0.408	0.100	0.5	25.0
Carbon Tetrachloride	0.415	0.421	0.100	1.4	25.0
Bromodichloromethane	0.548	0.535	0.200	-2.4	25.0
1,2-Dichloropropane	0.425	0.419		-1.4	
cis-1,3-Dichloropropene	0.541	0.531	0.200	-1.8	25.0
Trichloroethene	0.406	0.415	0.300	2.2	25.0
Dibromochloromethane	0.514	0.479	0.100	-6.8	25.0
1,1,2-Trichloroethane	0.336	0.304	0.100	-9.5	25.0
Benzene	0.766	0.662	0.500	-13.6	25.0
trans-1,3-Dichloropropene	0.436	0.413	0.100	-5.3	25.0
Bromoform	0.365	0.313	0.100	-14.2	25.0
4-Methyl-2-Pentanone	0.572	0.487		-14.9	
2-Hexanone	0.465	0.492		5.8	
Tetrachloroethene	0.401	0.412	0.200	2.7	25.0
1,1,2,2-Tetrachloroethane	0.755	0.629	0.500	-16.7	25.0
Toluene	1.275	1.289	0.400	1.1	25.0
Chlorobenzene	0.975	0.989	0.500	1.4	25.0
Ethylbenzene	0.417	0.416	0.100	-0.2	25.0
Styrene	0.911	0.921	0.300	1.1	25.0
Xylene (total)	0.553	0.555	0.300	0.4	25.0
Toluene-d8	1.139	1.212		6.4	
Bromofluorobenzene	0.766	0.771	0.200	0.7	25.0
1,2-Dichloroethane-d4	1.133	1.039		-8.3	

All other compounds must meet a minimum RRF of 0.010.

CONTINUING CALIBRATION REPORT

Method: OLM03S2.M Protocol: CLP 3/90
Title: OLM03.0 SOIL
Continuing Calibration File: B2865.D Inst: HP1

000141

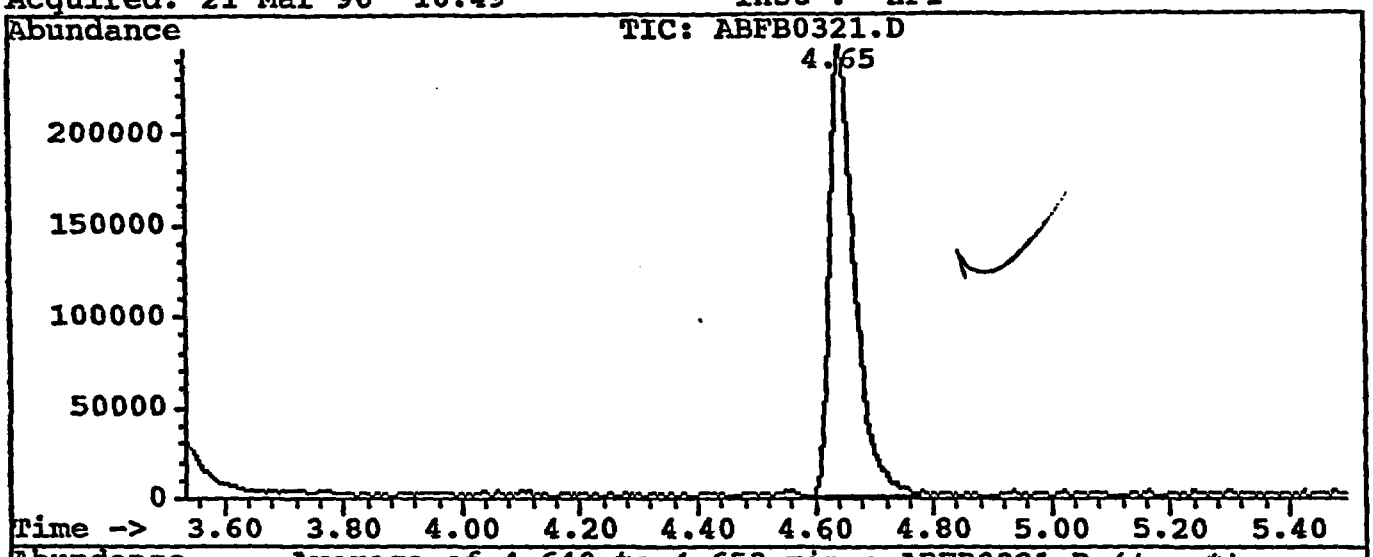
A#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
13	I	CI01 Bromochloromethane	1.000	1.000	0.0		
1	T	C010 Chloromethane	0.745	1.044	40.0	0.010	
2	T	C020 Vinyl chloride	1.476	1.808	22.5	0.100	25.0
3	T	C015 Bromomethane	1.825	2.048	12.3	0.100	25.0
4	T	C025 Chloroethane	1.186	1.314	10.8	0.010	
5	MT	C045 1,1-Dichloroethene	1.689	1.845	9.2	0.100	25.0
6	T	C035 Acetone	0.617	0.678	9.9	0.010	
7	T	C040 Carbon disulfide	5.022	5.600	11.5	0.010	
8	T	C030 Methylene chloride	1.639	1.711	4.4	0.010	
9	T	C053 trans-1,2-Dichloroethene	1.670	1.791	7.2	0.010	
10	T	C050 1,1-Dichloroethane	2.933	3.058	4.3	0.200	25.0
11	T	C055 cis-1,2-Dichloroethene	1.570	1.661	5.8	0.010	
12	T	C110 2-Butanone	0.850	0.913	7.4	0.010	
14	T	C060 Chloroform	2.625	2.736	4.2	0.200	25.0
17	S	CS15 D4-1,2-Dichloroethane SU	1.134	1.039	8.4	0.010	
19	T	C065 1,2-Dichloroethane-DCA	1.392	1.151	17.3	0.100	25.0
20	I	CI10 1,4-Difluorobenzene	1.000	1.000	0.0		
15	T	C115 1,1,1,-Trichloroethane	0.405	0.407	0.5	0.100	25.0
16	T	C120 Carbon tetrachloride	0.415	0.421	1.3	0.100	25.0
18	MT	C165 Benzene	0.766	0.662	13.6	0.500	25.0
21	MT	C150 Trichloroethene	0.406	0.415	2.1	0.300	25.0
22	T	C140 1,2-Dichloropropane	0.426	0.420	1.4	0.010	
23	T	C130 Bromodichloromethane	0.548	0.536	2.2	0.200	25.0
24	T	C143 cis-1,3-Dichloropropene	0.541	0.531	1.8	0.200	25.0
28	T	C172 trans-1,3-Dichloropropen	0.436	0.413	5.3	0.100	25.0
29	T	C160 1,1,2-Trichloroethane	0.336	0.304	9.4	0.100	25.0
32	T	C155 Dibromochloromethane	0.514	0.479	6.7	0.100	25.0
39	T	C180 Bromoform	0.364	0.313	14.1	0.100	25.0
33	I	CI20 D5-Chlorobenzene	1.000	1.000	0.0		
25	T	C205 4-Methyl-2-pentanone	0.564	0.474	16.1	0.010	
26	S	CS05 D8-Toluene SU2	1.118	1.176	5.1	0.010	
27	MT	C230 Toluene	1.253	1.251	0.2	0.400	25.0
30	T	C220 Tetrachloroethene	0.393	0.400	1.6	0.200	25.0
31	T	C210 2-Hexanone	0.457	0.478	4.4	0.010	
34	MT	C235 Chlorobenzene	0.958	0.958	0.0	0.500	25.0
35	T	C240 Ethyl benzene	0.421	0.418	0.7	0.100	25.0
36	T	C299 m,p-Xylene	0.557	0.553	0.7	0.300	25.0
37	T	C250 o-Xylene	0.544	0.539	0.9	0.300	25.0
38	T	C245 Styrene	0.895	0.894	0.2	0.300	25.0
40	S	CS10 p-Bromofluorobenzene SU3	0.757	0.747	1.3	0.200	25.0
41	T	C225 1,1,2,2-Tetrachloroethan	0.742	0.611	17.8	0.300	25.0

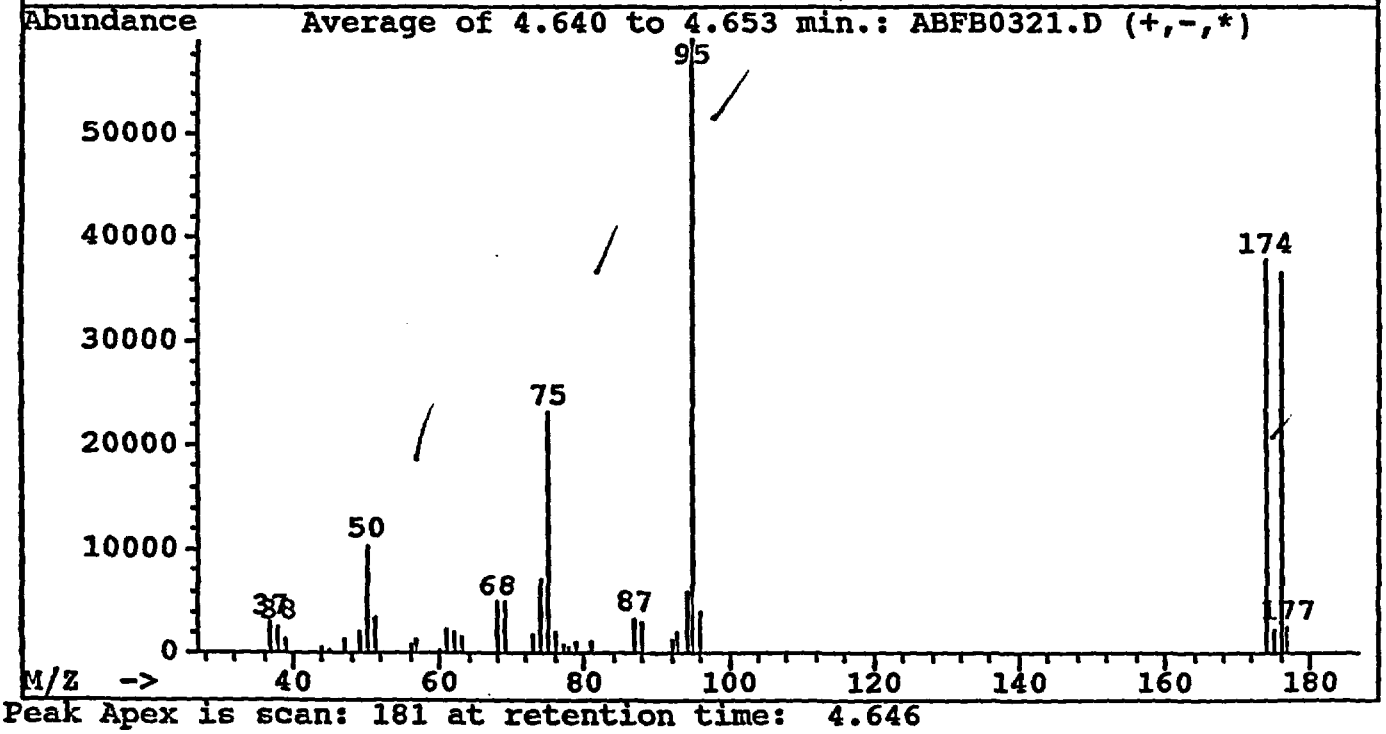
(*) = QC Criteria Failed (**) = > 40 % Dev., Reanalyze Standard

BFB Results

000142

File : C:\032196A\ABFB0321.D Analyst : JR
Acquired: 21 Mar 96 10:49 Inst : HP1





Peak Apex is scan: 181 at retention time: 4.646

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
50	95	8.00	40.00	17.56	17.56	PASS
75	95	30.00	66.00	39.15	39.15	PASS
95	95	100.00	100.00	100.00	100.00	PASS
96	95	5.00	9.00	6.45	6.45	PASS
173	174	0.00	2.00	0.00	0.00	PASS
174	95	50.00	120.00	63.70	63.70	PASS
175	174	4.00	9.00	3.60	5.65	PASS
176	174	93.00	101.00	61.65	96.78	PASS
177	176	5.00	9.00	4.31	6.99	PASS

C:\032196A\ABFB0321.D Thu Mar 21 10:56:16 1996

File: C:\032196A\ABFB0321.D
Operator: JR
Date Acquired: 21 Mar 96 10:49 am
Method File: BFB624A.M
Sample Name: 50 ng on col
Misc Info: HP1*AATSLA*BFB*1uL
Vial Number : 1

000143

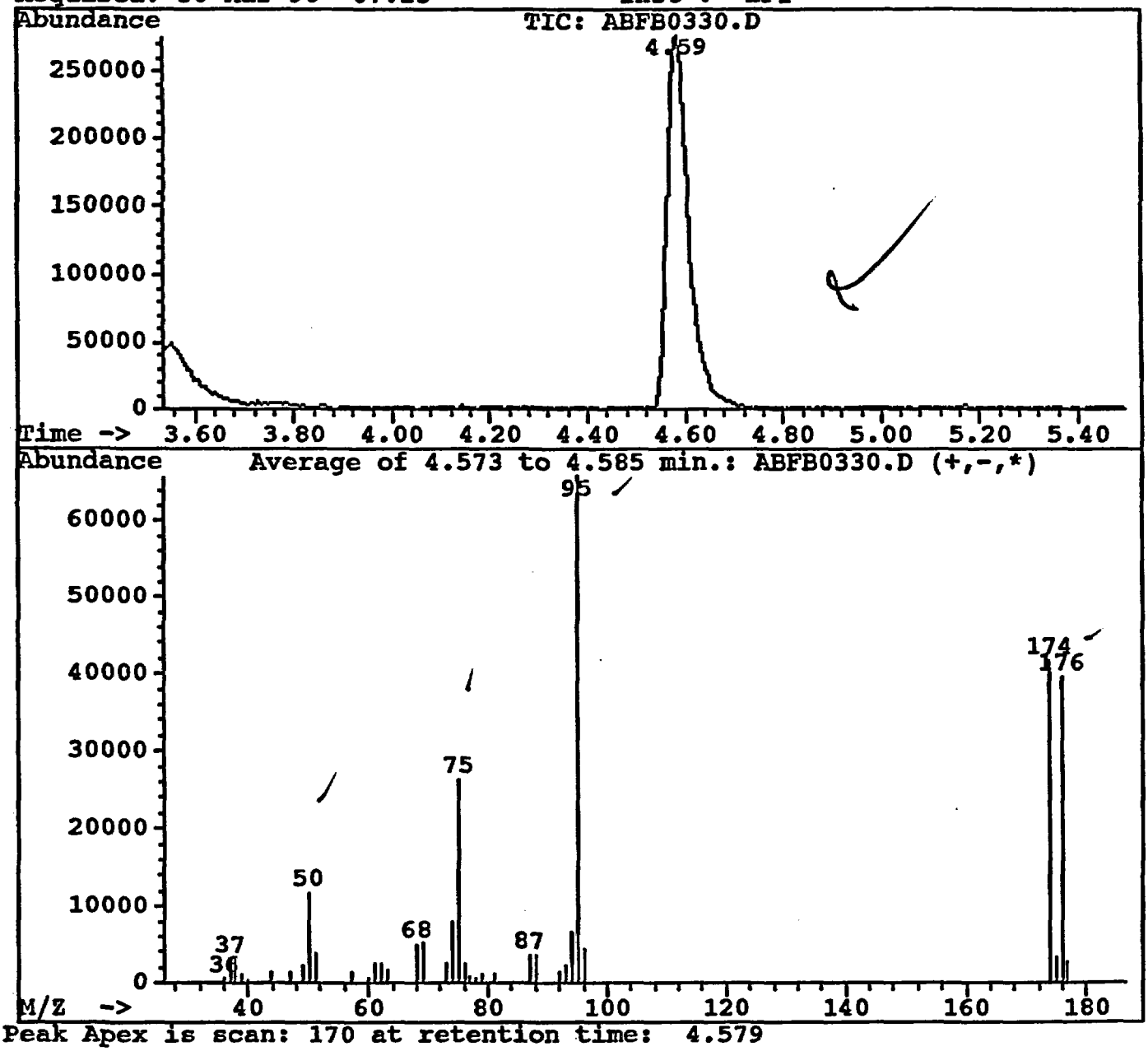
Average of 4.640 to 4.653 min.: ABFB0321.D
50 ng on col
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	493	60.05	33	77.95	74	175.00	360
38.05	421	60.95	387	78.90	169	175.90	6165
39.00	223	62.00	335	80.90	163	176.90	431
43.95	90	63.00	238	86.95	559		
45.00	47	68.00	818	87.95	512		
47.00	225	69.00	811	92.00	200		
49.00	352	73.05	314	92.95	335		
50.05	1756	74.05	1206	94.05	986		
51.05	572	75.05	3915	95.05	10000		
55.95	136	76.00	354	96.05	645		
56.95	205	76.95	142	173.95	6370		

BFB Results

000144

File : C:\033096A\ABFB0330.D Analyst : JR
Acquired: 30 Mar 96 07:23 Inst : HP1



Peak Apex is scan: 170 at retention time: 4.579

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
50	95	8.00	40.00	17.84	17.84	PASS
75	95	30.00	66.00	40.14	40.14	PASS
95	95	100.00	100.00	100.00	100.00	PASS
96	95	5.00	9.00	6.49	6.49	PASS
173	174	0.00	2.00	0.00	0.00	PASS
174	95	50.00	120.00	63.36	63.36	PASS
175	174	4.00	9.00	4.97	7.84	PASS
176	174	93.00	101.00	60.17	94.96	PASS
177	176	5.00	9.00	4.08	6.78	PASS

C:\033096A\ABFB0330.D Sat Mar 30 07:30:51 1996

File: C:\033096A\ABFB0330.D
Operator: JR
Date Acquired: 30 Mar 96 7:23 am
Method File: BFB624A.M

000145

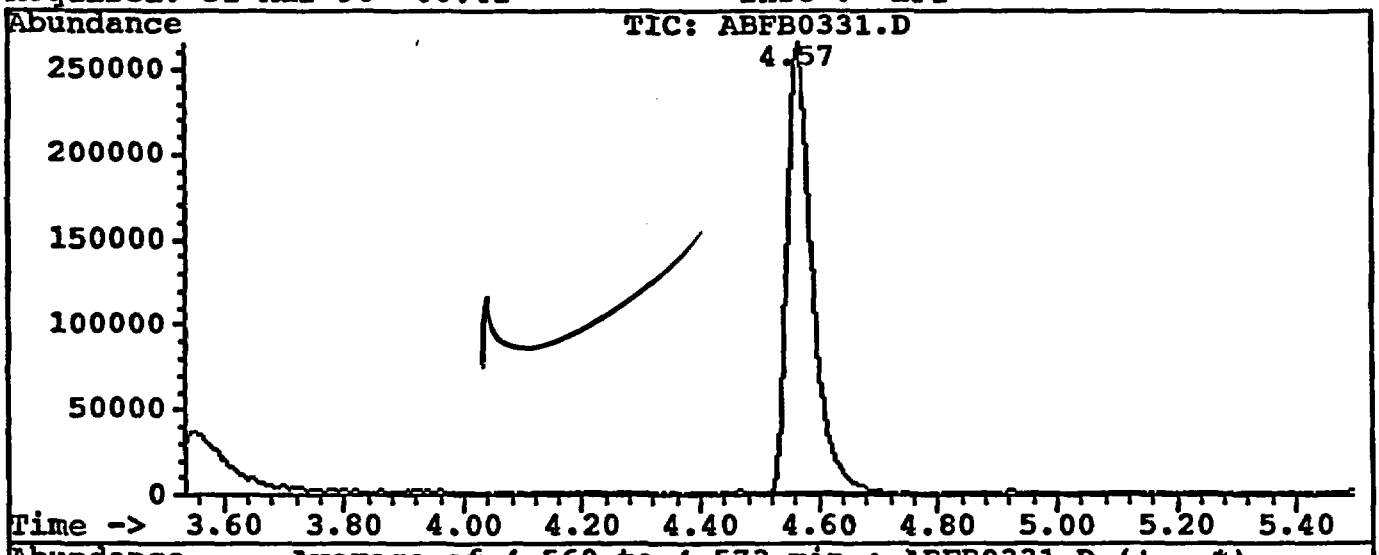
Sample Name: 50 ng on col V-96-423
Misc Info: HP1*AATSLA*BFB*1uL
Cal Number : 1
Average of 4.573 to 4.585 min.: ABFB0330.D
50 ng on col V-96-423
Modified:added subtracted scaled

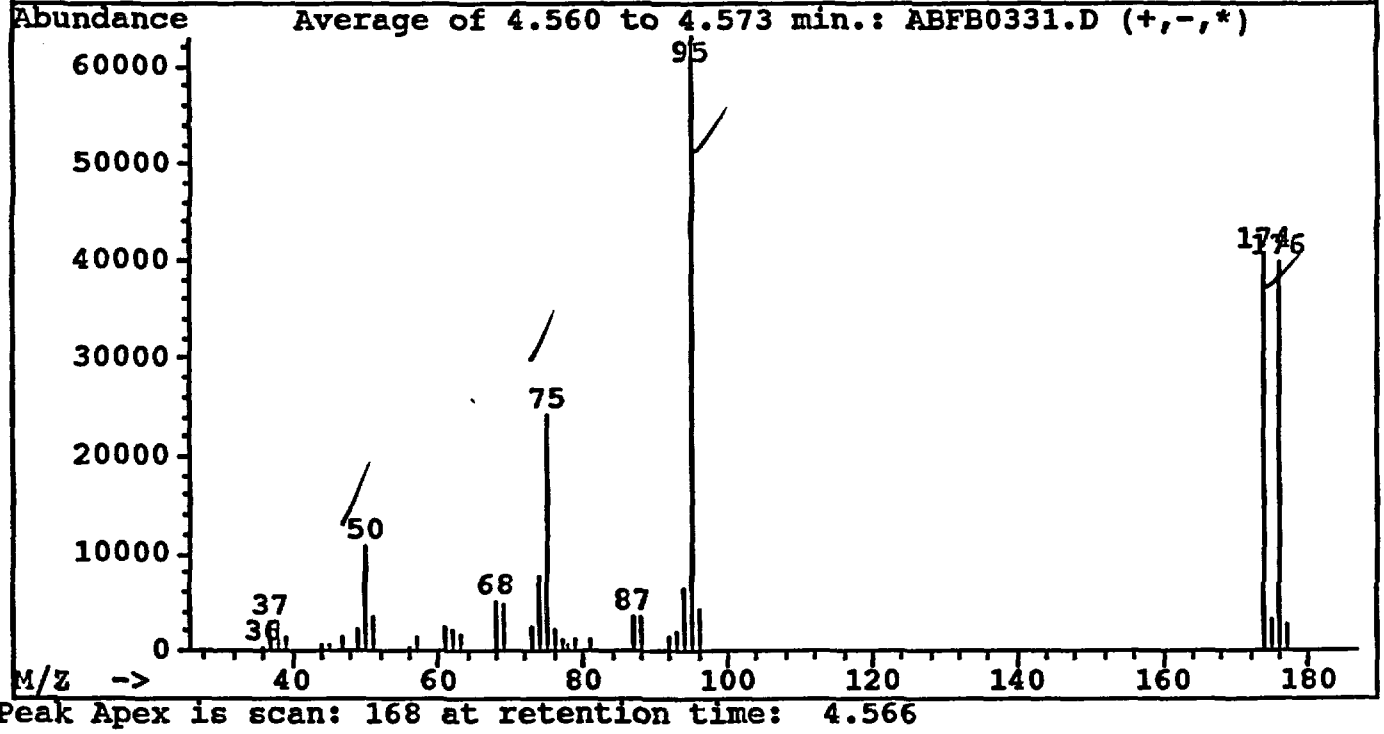
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	76	59.95	71	77.95	75	175.00	497
37.00	474	60.95	390	78.85	165	175.90	6017
37.95	448	61.95	358	80.90	168	176.85	408
38.95	193	63.00	258	86.90	559		
39.85	38	68.00	766	87.90	523		
43.90	213	69.00	800	92.00	202		
47.00	204	73.00	382	92.95	321		
49.00	343	74.05	1199	94.05	985		
50.05	1784	75.05	4014	95.05	10000		
51.05	600	76.00	363	96.00	649		
57.00	232	76.90	149	173.95	6336		

BFB Results

000146

File : C:\033196A\ABFB0331.D Analyst : JR
Acquired: 31 Mar 96 06:41 Inst : HP1





Peak Apex is scan: 168 at retention time: 4.566

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
50	95	8.00	40.00	17.04	17.04	PASS
75	95	30.00	66.00	38.20	38.20	PASS
95	95	100.00	100.00	100.00	100.00	PASS
96	95	5.00	9.00	6.52	6.52	PASS
173	174	0.00	2.00	0.00	0.00	PASS
174	95	50.00	120.00	64.22	64.22	PASS
175	174	4.00	9.00	5.17	8.05	PASS
176	174	93.00	101.00	63.12	98.28	PASS
177	176	5.00	9.00	3.99	6.32	PASS

C:\033196A\ABFB0331.D Sun Mar 31 06:47:12 1996

File: C:\033196A\ABFB0331.D
Operator: JR
Date Acquired: 31 Mar 96 6:41 am

000147

Method File: BFB624A.M
Sample Name: 50 ng on col V-96-423
Info: HP1*AATSLA*BFB*1UL
Cal Number : 1
Average of 4.560 to 4.573 min.: ABFB0331.D
50 ng on col V-96-423
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	41	57.00	225	77.85	76	174.95	517
37.05	458	60.95	363	78.90	189	175.90	6312
38.00	422	61.95	342	80.90	186	176.90	399
38.95	203	63.00	242	86.90	545		
43.90	74	68.00	786	87.95	525		
44.95	73	69.00	758	91.95	206		
46.95	208	73.05	374	92.95	295		
49.00	337	74.05	1182	94.05	1009		
50.05	1704	75.05	3820	95.05	10000		
51.05	548	76.00	341	96.00	652		
56.00	37	77.00	164	173.95	6422		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET **000148**

EPA SAMPLE NO.

VBLK1D

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1D

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2834

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/30/96✓

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG /	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK1D

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1D

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2834

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 09:06

000150

Data File: C:\033096A\B2834.D

Name: VBLK1D V-96-450

Misc: HP1*AATSLA*VBLK1D*5g*MS317

Method: OLMO3S1.M Inst: HP1 J033096

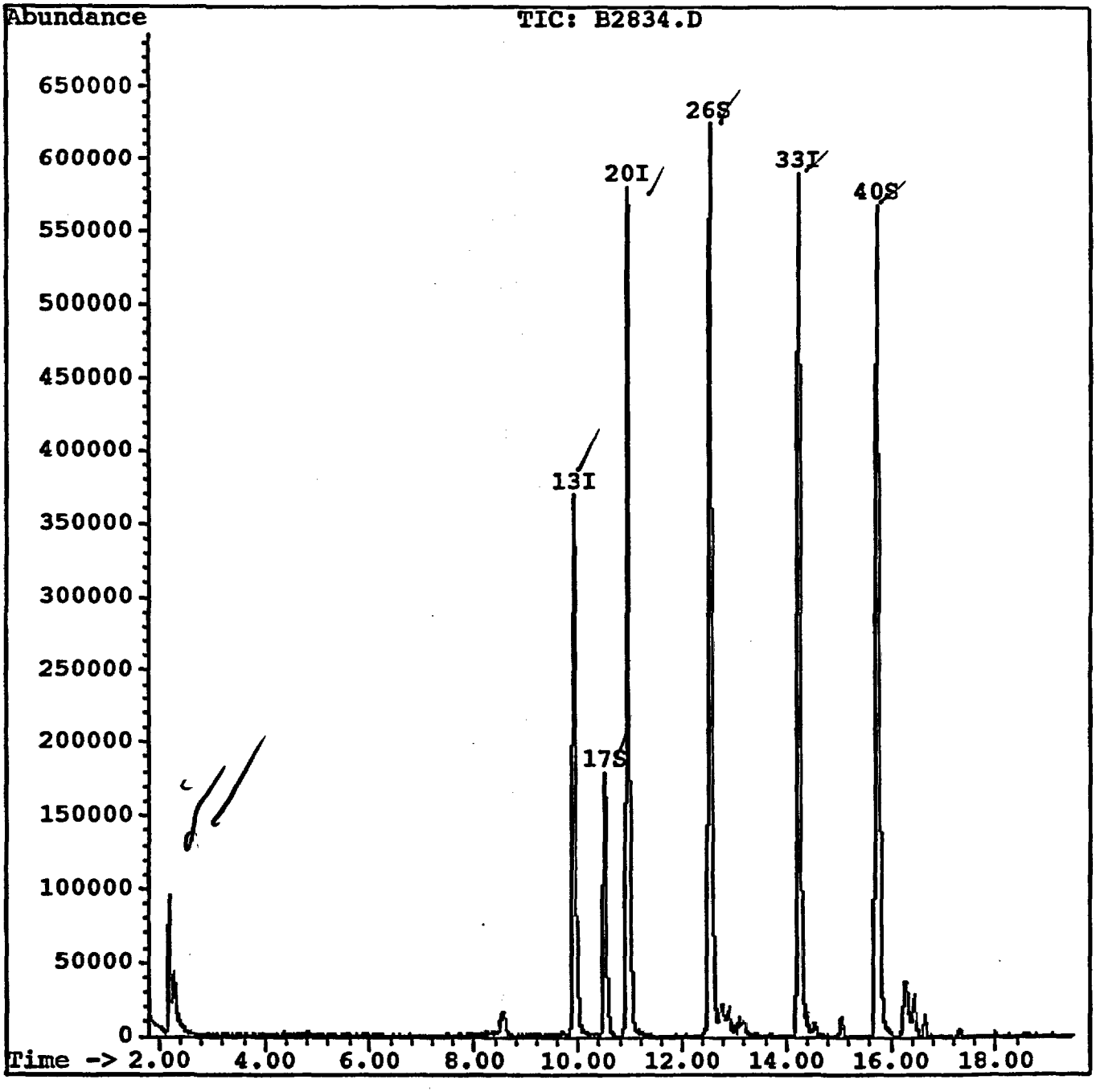
Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:22:23 1996

Quantitated using Single Level Calibration

ORIGINALS FILED WITH CSF BHR85 d 4/12/96

COPY



QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 09:06
Data File: C:\033096A\B2834.D
Name: VBLK1D D V-96-450
Misc: HP1*AATSLA*VBLK1D*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sat Mar 30 08:22:23 1996
Quantitated using Single Level Calibration

000151

033096

COPY

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.92	128	203576	50.00	ug/L	0.04
20) CI10 1,4-Difluorobenzene	10.96	114	1078027	50.00	ug/L	0.06
33) CI20 D5-Chlorobenzene	14.25	117	900302	50.00	ug/L	0.07
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.52	65	230133	39.24	ug/L	78.48%
26) CS05 D8-Toluene SU2	12.54	98	1039694	49.93	ug/L	99.87%
40) CS10 p-Bromofluorobenzene	15.74	95	656558	49.00	ug/L	97.99%
Target Compounds						**ISTD#**

(#) = qualifier out of range

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET **000152** EPA SAMPLE NO.

VBLK1E

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1E

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2871

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000153

EPA SAMPLE NO.

VBLK1E

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1E

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2871

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

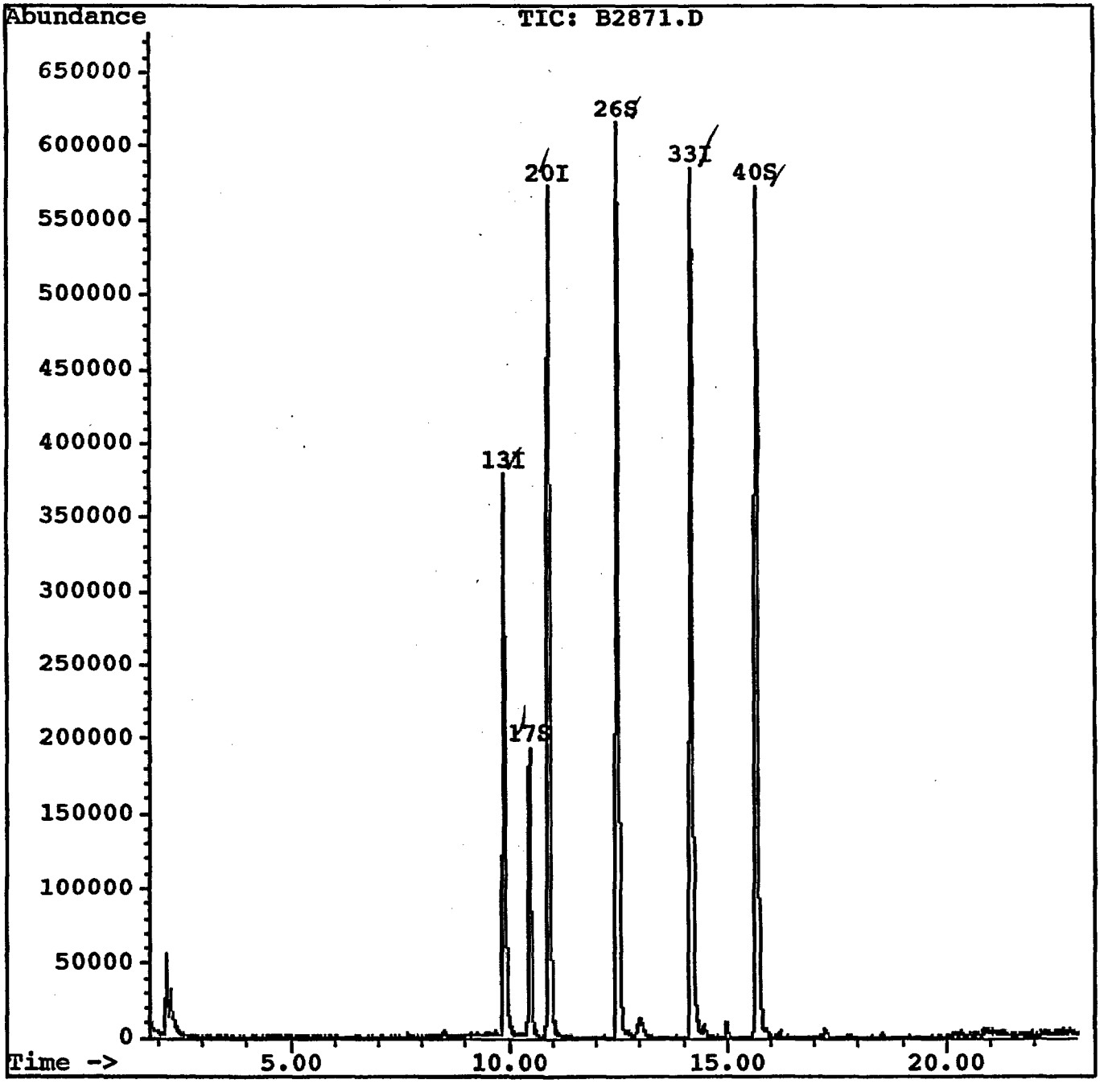
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 11:13 **000154**
Data File: C:\033196A\B2871.D
Name: VBLK1E V-96-450 18
Misc: HP1*AATSLA*VBLK1E*5g*MS317
Method: OLM03S1.M Inst: HP1
Title: OLM03.0 SOIL
Last Calibration: Sun Mar 31 11:54:41 1996
Quantitated using Single Level Calibration



QUANT REPORT

000155

Operator ID: JR Date Acquired: 31 Mar 96 11:13
Data File: C:\033196A\B2871.D
Name: VBLK1E V-96-450 18
Misc: HP1*AATSLA*VBLK1E*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 11:54:41 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	208267	50.00	ug/L	0.01
20) CI10 1,4-Difluorobenzene	10.91	114	1065658	50.00	ug/L	0.01
33) CI20 D5-Chlorobenzene	14.18	117	899799	50.00	ug/L	-0.01
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.47	65	240995	55.68	ug/L	111.37%
26) CS05 D8-Toluene SU2	12.49	98	1029721	48.67	ug/L	97.33%
40) CS10 p-Bromofluorobenzene	15.67	95	659344	49.05	ug/L	98.10%

Target Compounds ISTD#

(#) = qualifier out of range

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET 000156

EPA SAMPLE NO.

VHBLK1E

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK1E

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2883

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	3	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET 000157
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK1E

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK1E

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2883

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/31/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

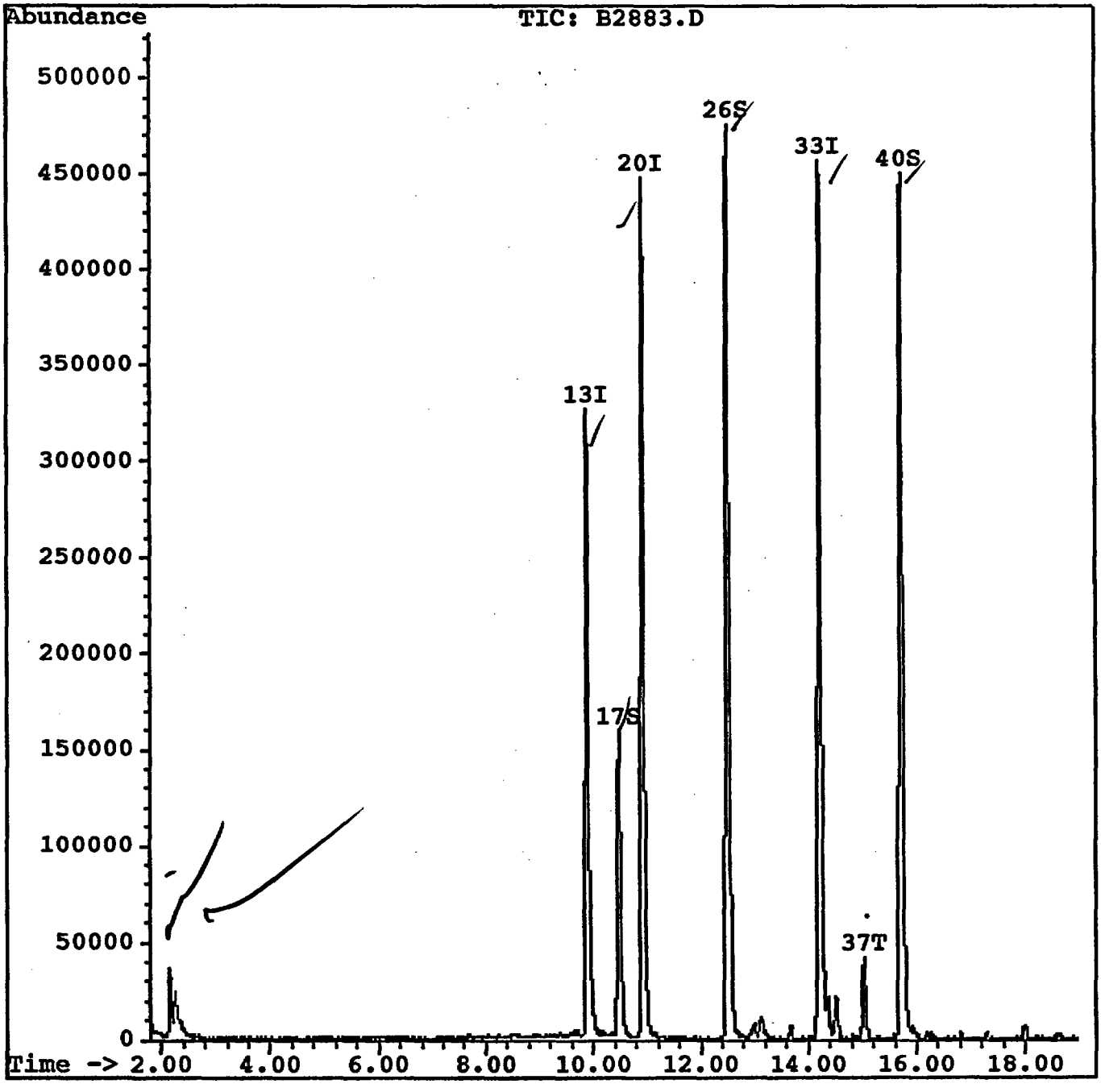
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

QUANT REPORT

Operator ID: JR Date Acquired: 31 Mar 96 17:40
Data File: C:\033196A\B2883.D
Name: VHBLK1E SDG FER94 CASE 24517 18
Misc: HP1*AATSLA*VHBLK1E*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 16:46:05 1996
Quantitated using Single Level Calibration



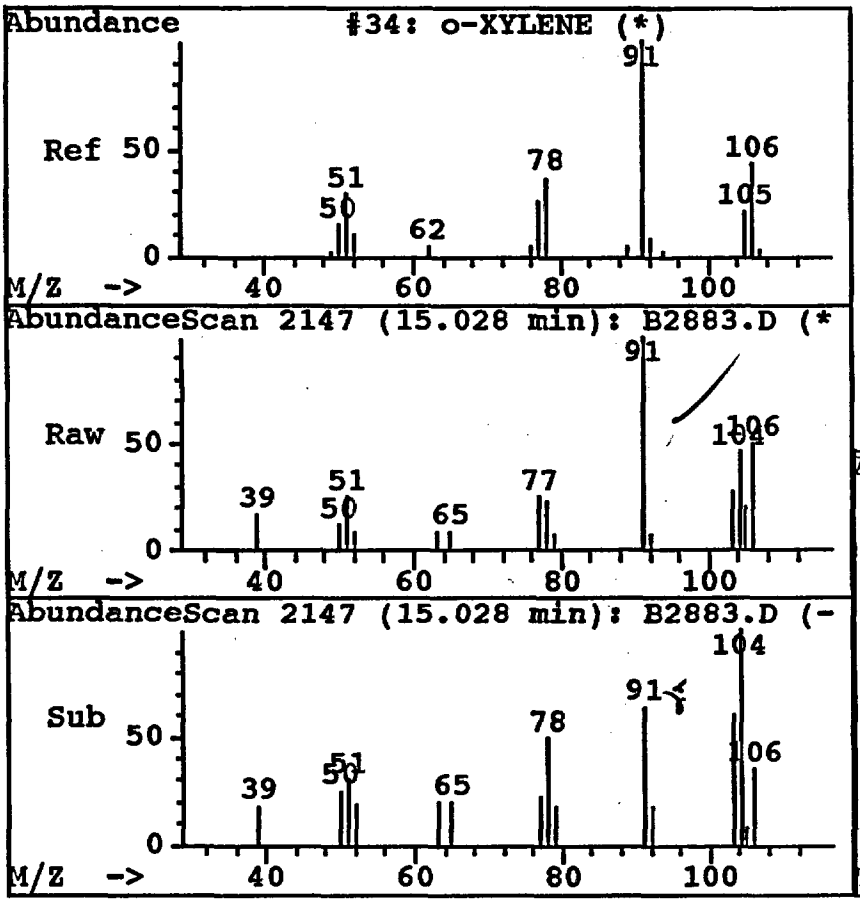
QUANT REPORT

000159

Operator ID: JR Date Acquired: 31 Mar 96 17:40
Data File: C:\033196A\B2883.D
Name: VHBLK1E SDG FER94 CASE 24517 18
Misc: HP1*AATSLA*VHBLK1E*5g*MS317
Method: OLMO3S1.M Inst: HP1
Title: OLMO3.0 SOIL
Last Calibration: Sun Mar 31 16:46:05 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.88	128	180154	50.00	ug/L	0.01
20) CI10 1,4-Difluorobenzene	10.92	114	822766	50.00	ug/L	0.02
33) CI20 D5-Chlorobenzene	14.21	117	688088	50.00	ug/L	0.02
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.48	65	211562	56.51	ug/L	113.02%
26) CS05 D8-Toluene SU2	12.51	98	791505	48.92	ug/L	97.84%
40) CS10 p-Bromofluorobenzene	15.71	95	506578	49.28	ug/L	98.56%
Target Compounds						**ISTD#**
37) C250 o-Xylene	15.03	106	20456	2.76	ug/L	003

(#) = qualifier out of range



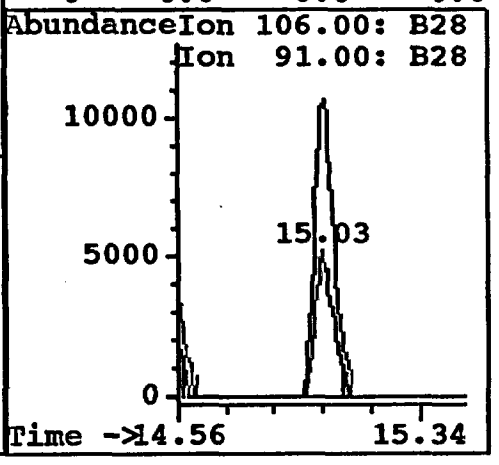
#37 Inst: HP1
C250 o-Xylene
Concen: 2.76 ug/L
RT: 15.03 min Scan# 2147
Delta R.T. 0.02 min
Lab File: B2883.D
Acq: 31 Mar 96 17:40

CC0160

VHBLK1E SDG

Tgt Ion: 106 Area: 20456

Ion	Ratio	Lower	Upper
106	100		
91	228.6	184.0	276.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET **000161**

EPA SAMPLE NO.

FER99MS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541107MS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2847

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 14 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	40	
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	40	
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	42	
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	43	
108-90-7	Chlorobenzene	41	
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 15:57

000162

Data File: C:\033096A\B2847.D

Name: FER99MS

25

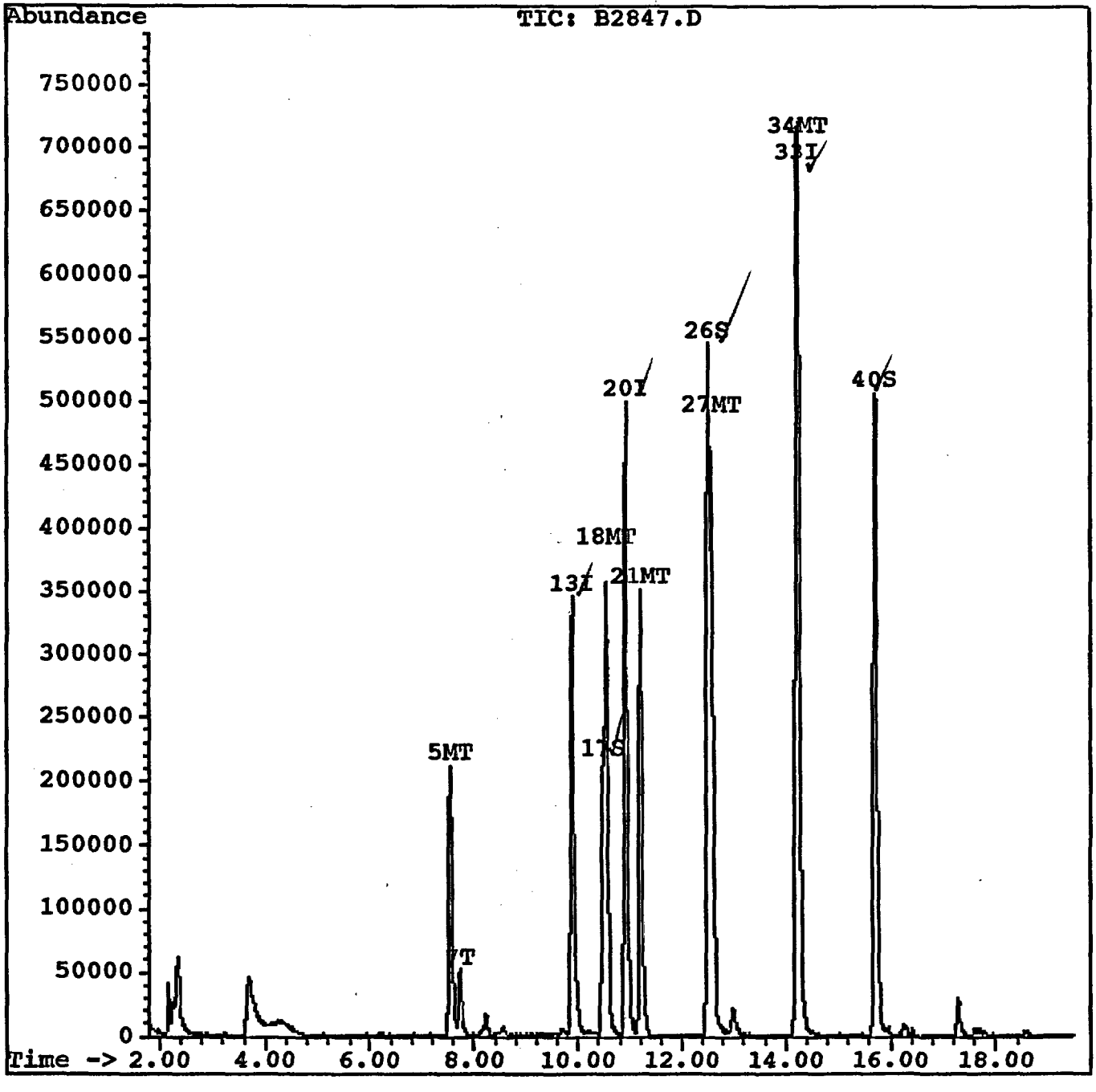
Misc: HP1*USEPA*15411.07*5g*MS317

Method: OLMO3S2.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:24:30 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 15:57

000163

Data File: C:\033096A\B2847.D

Name: FER99MS

25

Misc: HP1*USEPA*15411.07*5g*MS317

Method: OLMO3S2.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:24:30 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.89	128	194287	50.00	ug/L	0.02
20) CI10 1,4-Difluorobenzene	10.93	114	930729	50.00	ug/L	0.03
33) CI20 D5-Chlorobenzene	14.21	117	787724	50.00	ug/L	0.03
System Monitoring Compounds						%Recovery
17) CS15 D4-1,2-Dichloroethane	10.49	65	253270	45.25	ug/L	90.50%
26) CS05 D8-Toluene SU2	12.51	98	903097	49.57	ug/L	99.15%
40) CS10 p-Bromofluorobenzene	15.71	95	585518	49.94	ug/L	99.88%
Target Compounds						ISTD#
5) C045 1,1-Dichloroethene	7.56	96	210101	34.02	ug/L	001
~~7) C035 Acetone~~	~~7.73~~	~~43~~	~~16929~~	~~11.07~~	~~ug/L~~	001
18) C165 Benzene	10.55	78	623340	35.84	ug/L	002
21) C150 Trichloroethene	11.21	130	277869	34.49	ug/L	002
27) C230 Toluene	12.59	91	731078	36.65	ug/L	003
34) C235 Chlorobenzene	14.25	112	552043	34.98	ug/L	003#

FP=FALSE POSITIVE

(#) = qualifier out of range

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET 000164

EPA SAMPLE NO.

FER99MSD

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541108MSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B2848

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: not dec. 14 Date Analyzed: 03/30/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	49	
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	49	
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	47	
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	51	
108-90-7	Chlorobenzene	49	
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 16:28

000165

Data File: C:\033096A\B2848.D

Name: FER99MSD

26

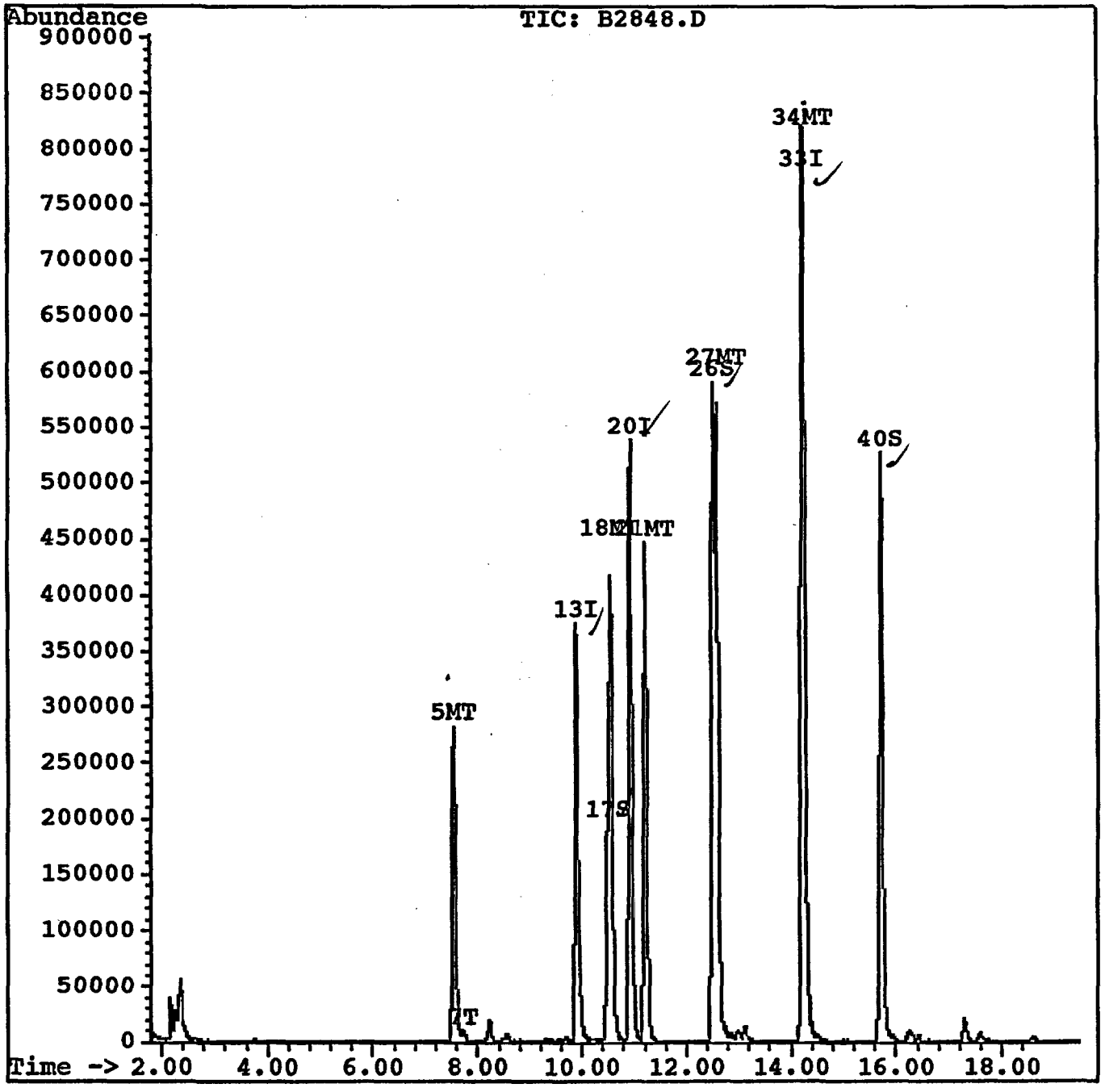
Misc: HP1*USEPA*15411.08*5g*MS317

Method: OLMO3S2.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:24:30 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: JR Date Acquired: 30 Mar 96 16:28

000166

Data File: C:\033096A\B2848.D

Name: FER99MSD

26

Misc: HP1*USEPA*15411.08*5g*MS317

Method: OLMO3S2.M Inst: HP1

Title: OLMO3.0 SOIL

Last Calibration: Sat Mar 30 08:24:30 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
13) CI01 Bromochloromethane	9.90	128	206767	50.00	ug/L	0.02
20) CI10 1,4-Difluorobenzene	10.93	114	1000376	50.00	ug/L	0.03
33) CI20 D5-Chlorobenzene	14.22	117	841197	50.00	ug/L	0.04
System Monitoring Compounds						**%Recovery**
17) CS15 D4-1,2-Dichloroethane	10.49	65	229188	38.47	ug/L	76.95%
26) CS05 D8-Toluene SU2	12.51	98	979358	50.34	ug/L	100.68%
40) CS10 p-Bromofluorobenzene	15.72	95	618802	49.42	ug/L	98.85%
Target Compounds						**ISTD#**
5) C045 1,1-Dichloroethene	7.55	96	276244	42.03	ug/L	84 001
~~7) C035 Acetone~~	~~7.72~~	~~43~~	~~13975~~	~~8.59~~	~~ug/L~~	~~80~~ 001
18) C165 Benzene	10.55	78	748384	40.04	ug/L	002
21) C150 Trichloroethene	11.21	130	361178	41.71	ug/L	84 002
27) C230 Toluene	12.59	91	926874	43.51	ug/L	88 003
34) C235 Chlorobenzene	14.25	112	706237	41.90	ug/L	84 003#

PD=FALSE POSITIVE

(#) = qualifier out of range

BOOKMARK

IV. SEMIVOLATILE DATA

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

000167

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	FER34	73	83	101	63	77	84	73	73	0
02	FER35	70	79	106	70	94	89	78	71	0
03	FER39	75	78	85	66	66	68	72	64	0
04	FER40	68	72	61	69	93	83	72	58	0
05	FER41	71	74	100	65	68	75	72	66	0
06	FER90	73	85	81	66	78	105	74	74	0
07	FER91	67	75	98	65	71	82	72	66	0
08	FER92	79	77	90	58	52	38	57	66	0
09	FER93	81	80	88	60	48	44	62	68	0
10	FER94	61	68	76	54	63	50	60	60	0
11	FER95	68	74	87	62	74	78	71	69	0
12	FER97	77	85	104	73	85	92	82	79	0
13	FER98	72	78	89	60	66	51	66	73	0
14	FER99	66	76	83	60	69	85	70	68	0
15	FES00	69	78	93	66	79	89	74	71	0
16	FER99MS	67	70	82	59	60	68	63	65	0
7	FER99MSD	68	73	82	60	67	81	68	66	0
8	SBLK6R	70	75	99	65	72	69	69	68	0
19	SBLK6U	81	78	97	77	83	53	78	72	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

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

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix Spike - EPA Sample No.: FER99 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	2910	0	1522	52	26- 90
2-Chlorophenol	2910	0	1682	58	25-102
1,4-Dichlorobenzene	1940	0	1238	64	28-104
N-Nitroso-di-n-prop.(1)	1940	0	1371	71	41-126
1,2,4-Trichlorobenzene	1940	0	1413	73	38-107
4-Chloro-3-methylphenol	2910	0	1764	61	26-103
Acenaphthene	1940	0	1413	73	31-137
4-Nitrophenol	2910	0	1995	69	11-114
2,4-Dinitrotoluene	1940	0	1369	71	28- 89
Pentachlorophenol	2910	0	1236	42	17-109
Pyrene	1940	0	1552	80	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	2910	1574	54	4	35	26- 90
2-Chlorophenol	2910	1788	61	5	50	25-102
1,4-Dichlorobenzene	1940	1316	68	6	27	28-104
N-Nitroso-di-n-prop.(1)	1940	1398	72	1	38	41-126
1,2,4-Trichlorobenzene	1940	1461	75	3	23	38-107
4-Chloro-3-methylphenol	2910	1882	65	6	33	26-103
Acenaphthene	1940	1463	75	3	19	31-137
4-Nitrophenol	2910	2041	70	1	50	11-114
2,4-Dinitrotoluene	1940	1367	70	1	47	28- 89
Pentachlorophenol	2910	1175	40	5	47	17-109
Pyrene	1940	1557	80	0	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

000169 EPA SAMPLE NO.

SBLK6R

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: 77423 Lab Sample ID: SBLK6R

Instrument ID: HP6 Date Extracted: 03/30/96

Matrix: (soil/water) SOIL Date Analyzed: 04/04/96

Level: (low/med) LOW Time Analyzed: 2225

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	FER34	1542701	77432	04/05/96
02	FER35	1542702	77439	04/05/96
03	FER39	1542703	77497	04/10/96
04	FER40	1542704	77441	04/05/96
05	FER41	1542705	77442	04/05/96
06	FER90	1542706	77443	04/05/96
07	FER91	1542707	77444	04/05/96
08	FER94	1541102	77425	04/04/96
09	FER95	1541103	77426	04/04/96
10	FER97	1541104	77427	04/05/96
11	FER98	1541105	77428	04/05/96
12	FER99	1541106	77429	04/05/96
13	FES00	1541101	77424	04/04/96
14	FER99MS	1541107MS	77430	04/05/96
15	FER99MSD	1541108MSD	77431	04/05/96

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK6U

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: 77494 Lab Sample ID: SBLK6U

Instrument ID: HP6 Date Extracted: 04/02/96

Matrix: (soil/water) SOIL Date Analyzed: 04/10/96

Level: (low/med) LOW Time Analyzed: 1323

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	FER92	1542708	77502	04/10/96
02	FER93	1542709	77503	04/10/96

COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: 77310 DFTPP Injection Date: 03/31/96

Instrument ID: HP6 DFTPP Injection Time: 1238

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	45.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	66.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	49.8
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	19.7
365	Greater than 0.75% of mass 198	2.10
441	Present, but less than mass 443	7.6
442	40.0 - 110.0% of mass 198	51.1
443	15.0 - 24.0% of mass 442	10.1 (19.7)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0506C	SSTD0506C	77311	03/31/96	1250
02	SSTD0206C	SSTD0206C	77312	03/31/96	1320
03	SSTD0806C	SSTD0806C	77313	03/31/96	1349
04	SSTD1206C	SSTD1206C	77314	03/31/96	1417
05	SSTD1606C	SSTD1606C	77315	03/31/96	1446

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: 77411 DFTPP Injection Date: 04/04/96

Instrument ID: HP6 DFTPP Injection Time: 1625

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	53.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	73.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	50.9
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	6.0
275	10.0 - 30.0% of mass 198	20.7
365	Greater than 0.75% of mass 198	1.72
441	Present, but less than mass 443	6.2
442	40.0 - 110.0% of mass 198	43.0
443	15.0 - 24.0% of mass 442	7.5 (17.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0506R	SSTD0506R	77413	04/04/96	1750
02	SBLK6R	SBLK6R	77423	04/04/96	2225
03	FES00	1541101	77424	04/04/96	2255
04	FER94	1541102	77425	04/04/96	2326
05	FER95	1541103	77426	04/04/96	2356
06	FER97	1541104	77427	04/05/96	0026
07	FER98	1541105	77428	04/05/96	0057
08	FER99	1541106	77429	04/05/96	0127
09	FER99MS	1541107MS	77430	04/05/96	0158
10	FER99MSD	1541108MSD	77431	04/05/96	0228
11	FER34	1542701	77432	04/05/96	0259

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: 77433 DFTPP Injection Date: 04/05/96

Instrument ID: HP6 DFTPP Injection Time: 1309

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	61.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	80.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	50.7
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	22.1
365	Greater than 0.75% of mass 198	2.06
441	Present, but less than mass 443	6.6
442	40.0 - 110.0% of mass 198	47.6
443	15.0 - 24.0% of mass 442	8.6 (18.0)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0506S	SSTD0506S	77434	04/05/96	1321
02	FER35	1542702	77439	04/05/96	1600
03	FER40	1542704	77441	04/05/96	1701
04	FER41	1542705	77442	04/05/96	1732
05	FER90	1542706	77443	04/05/96	1802
06	FER91	1542707	77444	04/05/96	1833

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

000174

Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID: 77490 DFTPP Injection Date: 04/10/96

Instrument ID: HP6 DFTPP Injection Time: 1100

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	42.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	66.4
70	Less than 2.0% of mass 69	0.5 (0.7)1
127	25.0 - 75.0% of mass 198	51.8
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	6.5
275	10.0 - 30.0% of mass 198	18.7
365	Greater than 0.75% of mass 198	1.76
441	Present, but less than mass 443	5.9
442	40.0 - 110.0% of mass 198	40.2
443	15.0 - 24.0% of mass 442	7.7 (19.1)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0506U	SSTD0506U	77491	04/10/96	1147
02	SBLK6U	SBLK6U	77494	04/10/96	1323
03	FER39	1542703	77497	04/10/96	1619
04	FER92	1542708	77502	04/10/96	2008
05	FER93	1542709	77503	04/10/96	2038

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

C00175

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID (Standard): 77413 Date Analyzed: 04/04/96

Instrument ID: HP6 Time Analyzed: 1750

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	67676		5.63		198547		7.15		92655		9.30	
	UPPER LIMIT	135352		6.13		397094		7.65		185310		9.80	
	LOWER LIMIT	33838		5.13		99274		6.65		46328		8.80	
	EPA SAMPLE NO.												
01	FER34	83412		5.65		246790		7.15		109636		9.30	
02	FER94	73559		5.63		220910		7.15		96264		9.30	
03	FER95	83904		5.63		253824		7.15		119815		9.30	
04	FER97	67874		5.63		209987		7.15		100737		9.30	
05	FER98	65405		5.63		193111		7.15		85286		9.30	
06	FER99	76088		5.63		226571		7.15		99023		9.30	
07	FES00	67357		5.63		203341		7.15		90466		9.30	
08	FER99MS	63268		5.63		176043		7.15		85109		9.30	
09	FER99MSD	68006		5.63		186843		7.15		88974		9.30	
10	SBLK6R	80459		5.63		252794		7.17		120551		9.30	

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 = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY 000176

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID (Standard): 77413 Date Analyzed: 04/04/96

Instrument ID: HP6 Time Analyzed: 1750

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	108739		11.42		82765		15.59		91714		17.70	
	UPPER LIMIT	217478		11.92		165530		16.09		183428		18.20	
	LOWER LIMIT	54370		10.92		41382		15.09		45857		17.20	
	EPA SAMPLE NO.												
01	FER34	122242		11.42		78468		15.57		69442		17.69	
02	FER94	104268		11.42		71877		15.57		66145		17.69	
03	FER95	129724		11.42		84443		15.57		78320		17.69	
04	FER97	119692		11.42		81258		15.57		66871		17.69	
05	FER98	90595		11.42		68179		15.57		65235		17.69	
06	FER99	105478		11.42		68228		15.59		65697		17.69	
07	FES00	100382		11.42		64409		15.57		60266		17.69	
08	FER99MS	94306		11.40		68208		15.57		64146		17.69	
09	FER99MSD	95822		11.40		69641		15.57		64016		17.69	
10	SBLK6R	126457		11.42		66726		15.59		65045		17.70	

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 = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY 000177

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID (Standard): 77434 Date Analyzed: 04/05/96

Instrument ID: HP6 Time Analyzed: 1321

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	37142	5.62	102543	7.15	50623	9.29
	UPPER LIMIT	74284	6.12	205086	7.65	101246	9.79
	LOWER LIMIT	18571	5.12	51272	6.65	25312	8.79
	EPA SAMPLE NO.						
01	FER35	62029	5.63	184286	7.15	85698	9.30
02	FER40	53257	5.62	139645	7.15	61987	9.30
03	FER41	54452	5.63	158548	7.17	79457	9.32
04	FER90	63214	5.65	180656	7.15	76386	9.30
05	FER91	42041	5.63	123078	7.17	58668	9.30

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 = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

RD050196

000178

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID (Standard): 77434 Date Analyzed: 04/05/96

Instrument ID: HP6 Time Analyzed: 1321

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	69129		11.40		70637		15.57		69564		17.69	
	UPPER LIMIT	138258		11.90		141274		16.07		139128		18.19	
	LOWER LIMIT	34564		10.90		35318		15.07		34782		17.19	
	EPA SAMPLE NO.												
01	FER35	99469		11.42		65685		15.57		59194		17.69	
02	FER40	79516		11.42		109305		15.64		65002		17.87	
03	FER41	100772		11.42		68489		15.59		79051		17.70	
04	FER90	76233		11.42		62757		15.60		104701		17.75	
05	FER91	72387		11.42		48512		15.59		58189		17.70	

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 = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY 000179

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID (Standard): 77491 Date Analyzed: 04/10/96

Instrument ID: HP6 Time Analyzed: 1147

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	105718		5.60		343794		7.13		168887		9.29	
	UPPER LIMIT	211436		6.10		687588		7.63		337774		9.79	
	LOWER LIMIT	52859		5.10		171897		6.63		84444		8.79	
	EPA SAMPLE NO.												
01	FER39	71405		5.63		229798		7.15		107398		9.30	
02	FER92	57161		5.63		187675		7.15		90174		9.30	
03	FER93	60475		5.65		189939		7.15		93109		9.30	
04	SBLK6U	125914		5.63		433351		7.15		238744		9.29	

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 = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Lab File ID (Standard): 77491 Date Analyzed: 04/10/96

Instrument ID: HP6 Time Analyzed: 1147

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	164579		11.40		72966		15.54		64438		17.65	
	UPPER LIMIT	329158		11.90		145932		16.04		128876		18.15	
	LOWER LIMIT	82290		10.90		36483		15.04		32219		17.15	
	EPA SAMPLE NO.												
01	FER39	125343		11.40		61516		15.57		59823		17.69	
02	FER92	110673		11.42		52205		15.59		60649		17.70	
03	FER93	113887		11.42		58308		15.59		70005		17.70	
04	SBLK6U	286570		11.39		116342		15.55		69811		17.67	

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 = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000183
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: FER34

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542701

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77432

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 25 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0 ~~0.5~~ 4/4/96

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

Number TICs found: 19 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.40	410	ABJ
2.		Aldol condensation	4.12	240	AJ
3.		Aldol condensation	4.77	390	ABJ
4.		Aldol condensation	5.52	310	ABJ
5.		Aldol condensation	5.77	150	AJ
6.		Unknown	6.15	250	J
7.		Unknown	7.20	890	J
8.		Unknown	12.42	250	J
9.		Unknown	13.52	190	J
10.		Unknown	15.07	200	J
11.		Unknown	15.13	94	J
12.		Unknown	17.13	90	J
13.		Unknown	18.80	610	J
14.		Unknown	19.15	4100	J
15.		Unknown	19.45	1500	J
16.		Unknown	19.98	1800	J
17.		Unknown	20.53	1000	J
18.		Unknown	20.68	1700	J
19.		Unknown	23.45	4600	J

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 02:59

000184

Data File: C:\CHEMPC\DATA\040496\77432.D

Name: FER034 Volume EXT033096

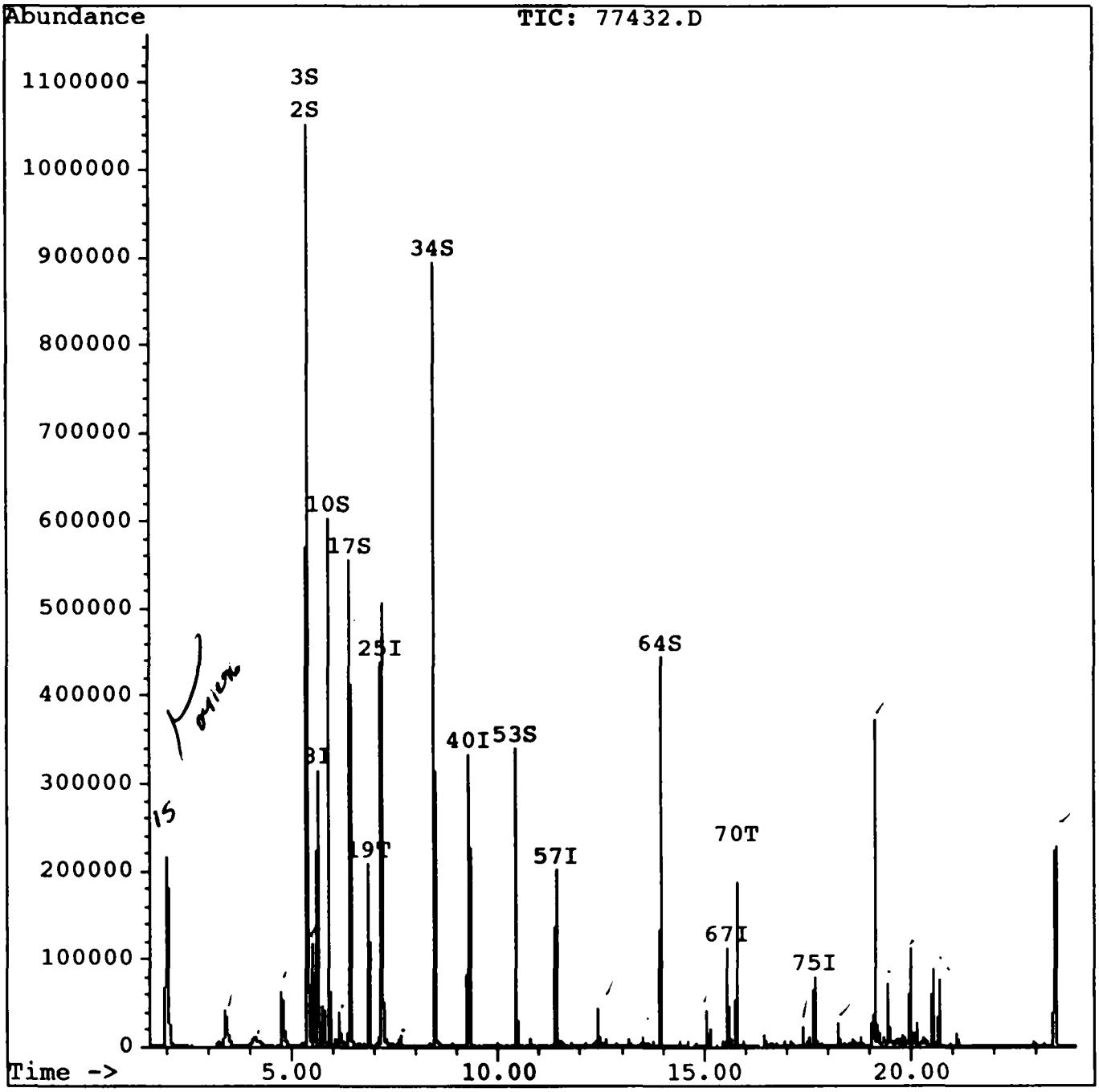
Misc: HP6*USEPA*1541.01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration



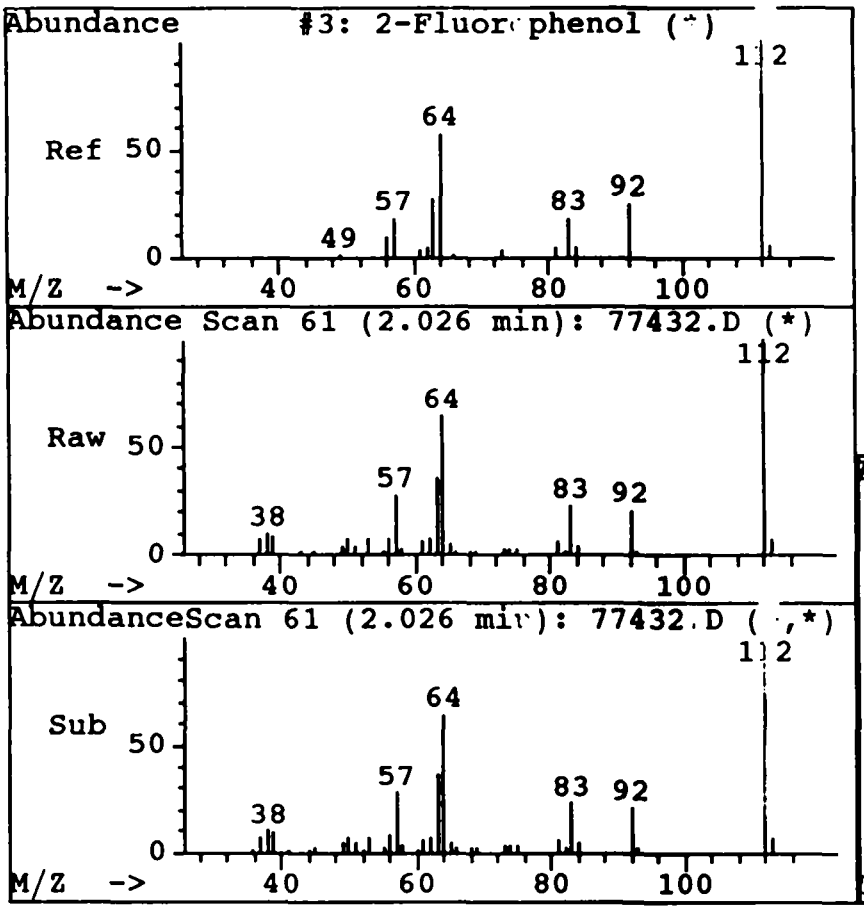
000185

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER934 EXT033096
Misc: HP6*USEPA*154.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.64	152	83412	40.00	ug/mL	0.02
25) CI40 Naphthalene-d8	7.16	136	246790	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.30	164	109636	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.41	188	122242	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.57	240	78468	40.00	ug/mL	-0.01
75) CI75 Perylene-d12	17.68	264	69442	40.00	ug/mL	-0.01
System Monitoring Compounds	~~2.03~~		223057	115.25		%Recovery
1) CS50 2-Fluorophenol	~~0.00~~	112	~~0~~	~~0.00~~	ug/mL	~~0.00%~~
2) CS45 Phenol-d5	5.38	99	287188	94.72	ug/mL	63.15%
3) CS70 2-Chlorophenol-d4	5.38	132	280668	109.72	ug/mL	73.15%
10) CS75 1,2-Dichlorobenzene-d	5.90	152	126101	73.08	ug/mL	73.08%
17) CS20 Nitrobenzene-d5	6.42	82	210627	72.83	ug/mL	72.83%
34) CS25 2-Fluorobiphenyl	8.45	172	318388	82.96	ug/mL	82.96%
53) CS55 2,4,6-Tribromophenol	10.43	330	55390	125.80	ug/mL	83.86%
64) CS30 Terphenyl-d14	13.95	244	184953	100.56	ug/mL	100.56%
Target Compounds						ISTD#
19) C415 ~~Isophorone~~	~~6.86~~	82	17481	3.84	ug/mL	002#
70) C745 bis(2-Ethylhexyl)phth	15.80	149	63719	30.07	ug/mL	005

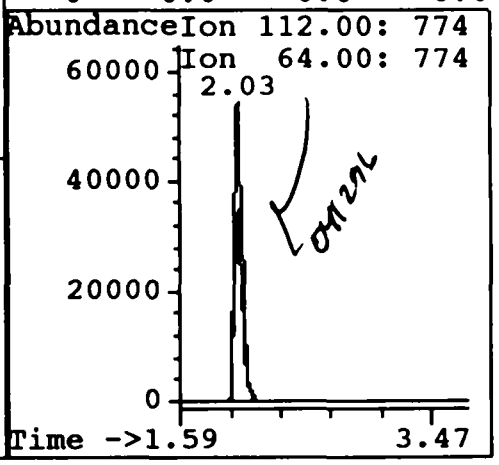
(#) = qualifier out of range

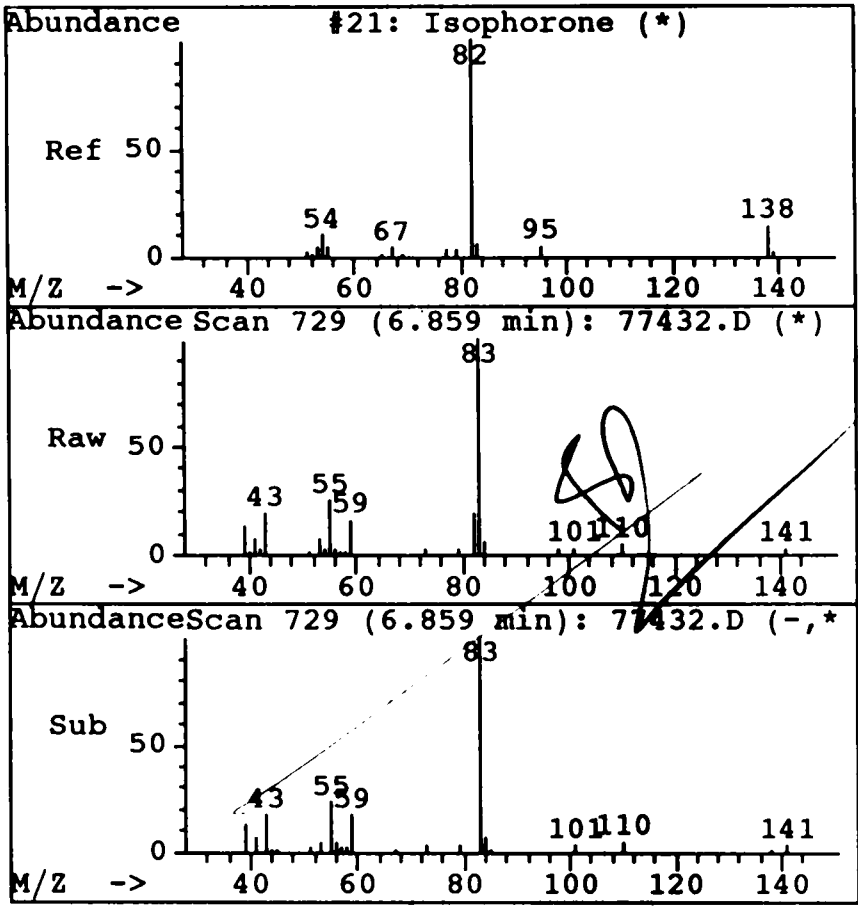


#1 Inst: HP6
CS50 2-Fluorophenol
Concen: 115.25 ug/mL m
RT: 2.03 min Scan# 61
Delta R.T. 0.30 min
Lab File: 77432.D
Acq: 5 Apr 96 02:59
FER934

Tgt Ion: 112 Area: 223057

Ion	Ratio	Lower	Upper
112	100		
64	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

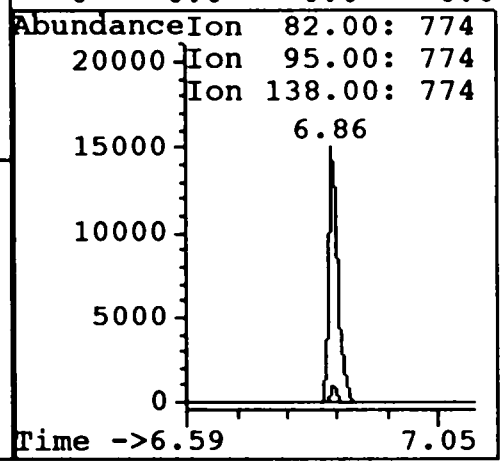


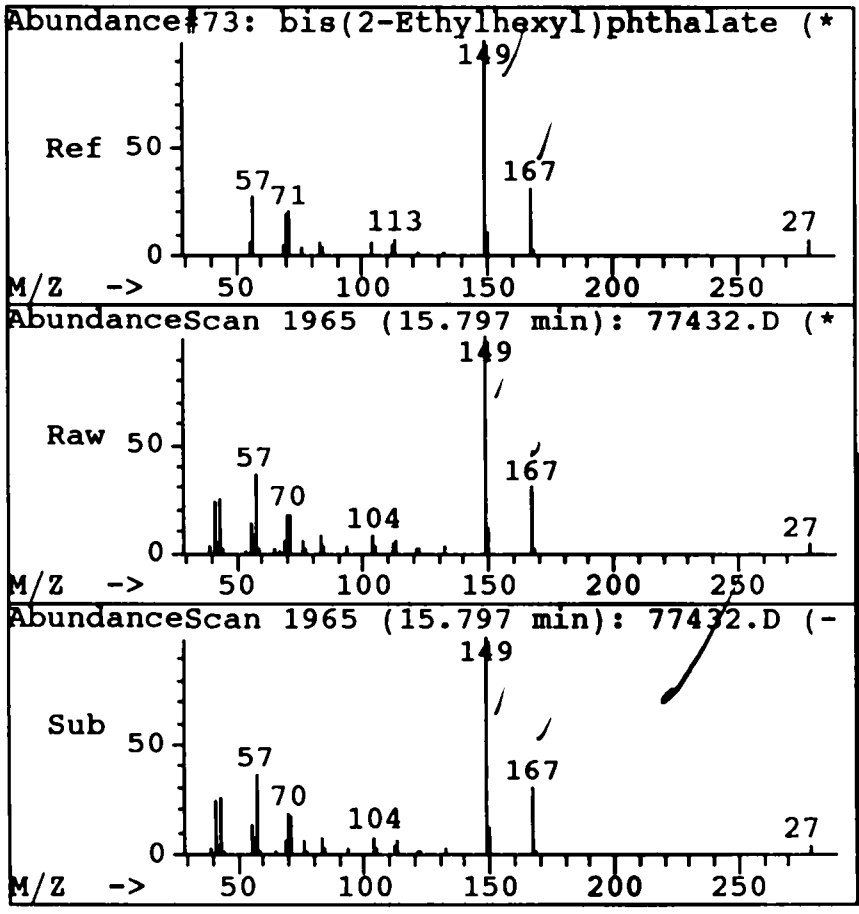


#19 Inst: HP6
C415 Isophorone
Concen: 3.84 ug/mL
RT: 6.86 min Scan# 729
Delta R.T. 0.17 min
Lab File: 77432.D
Acq: 5 Apr 96 02:59
FER934

Tgt Ion: 82 Area: 17481

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	4.4	0.0	35.2
0	0.0	0.0	0.0

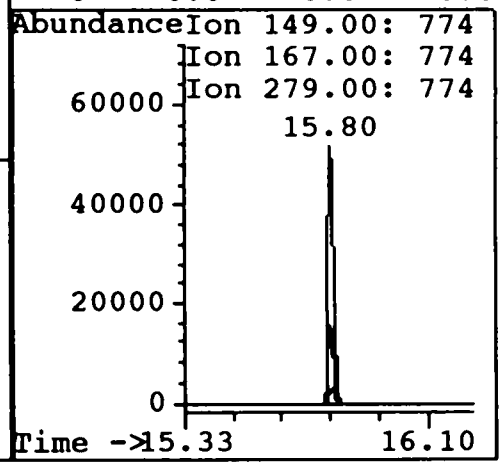




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 30.07 ug/mL
RT: 15.80 min Scan# 1965
Delta R.T. -0.01 min
Lab File: 77432.D
Acq: 5 Apr 96 02:59
FER934

Tgt Ion: 149 Area: 63719

Ion	Ratio	Lower	Upper
149	100		
167	29.2	13.5	53.5
279	5.4	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

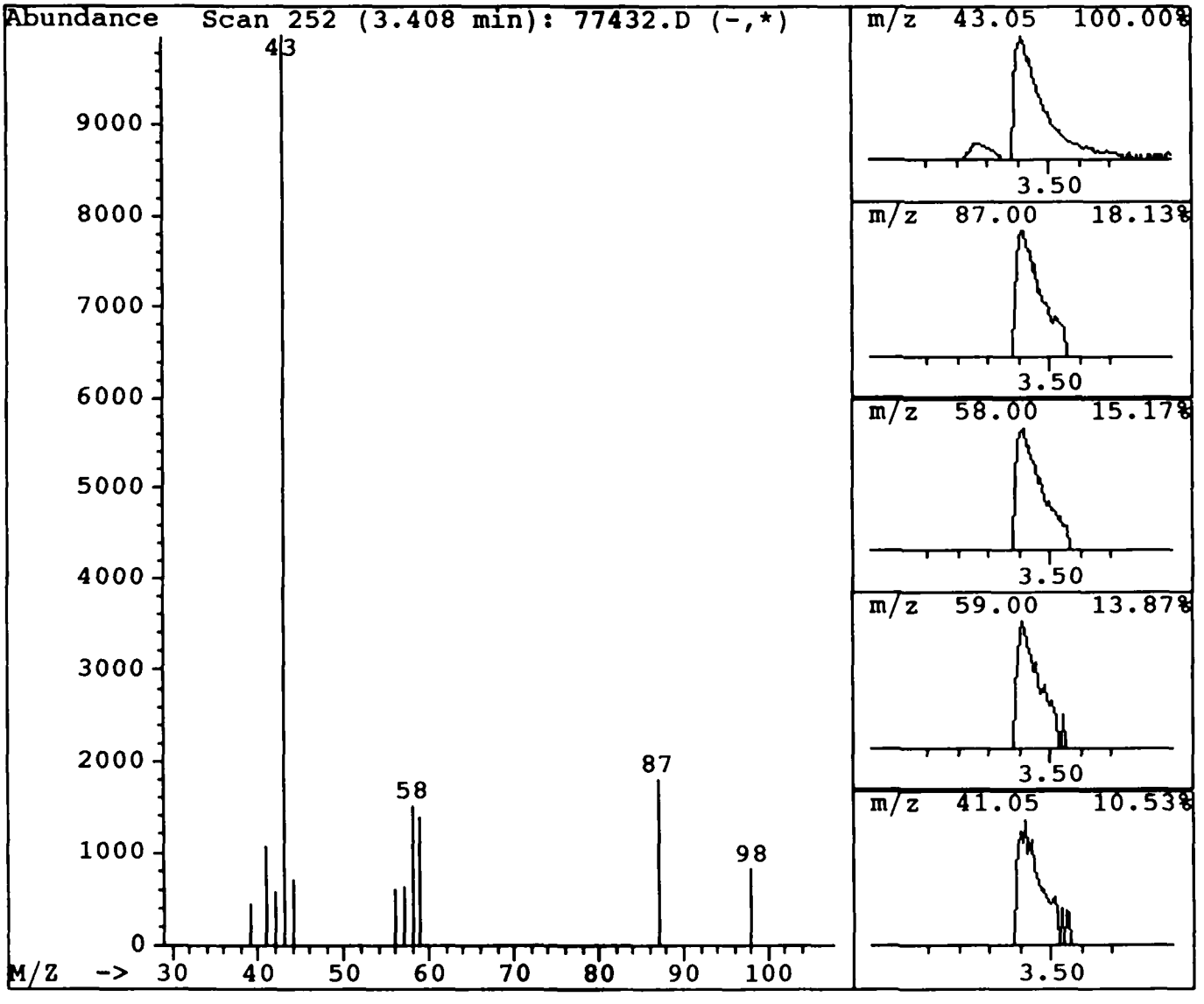
300188

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER934 Vonm EXT033096
Misc: HP6*USEPA*1547.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.41	18.47 ug/mL	242893	CI30 1,4-Dichlorobenzene-	526034

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 02:59

Data File: C:\CHEMPC\DATA\040496\77432.D

000189

Name: FER934 Pound EXT033096

Misc: HP6*USEPA*1547*01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6 4/11/96

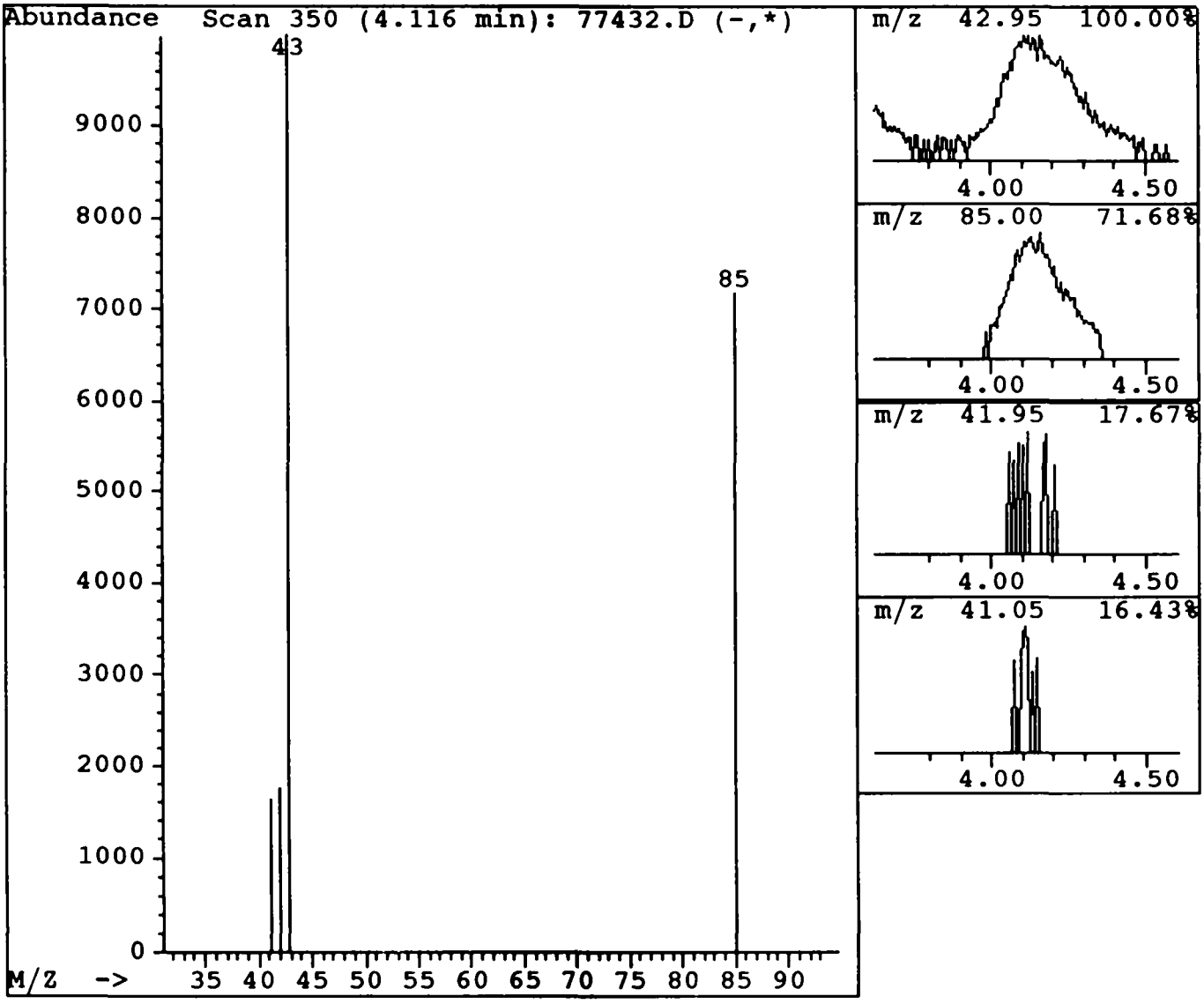
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	10.93 ug/mL	143705	CI30 1,4-Dichlorobenzene-	526034

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



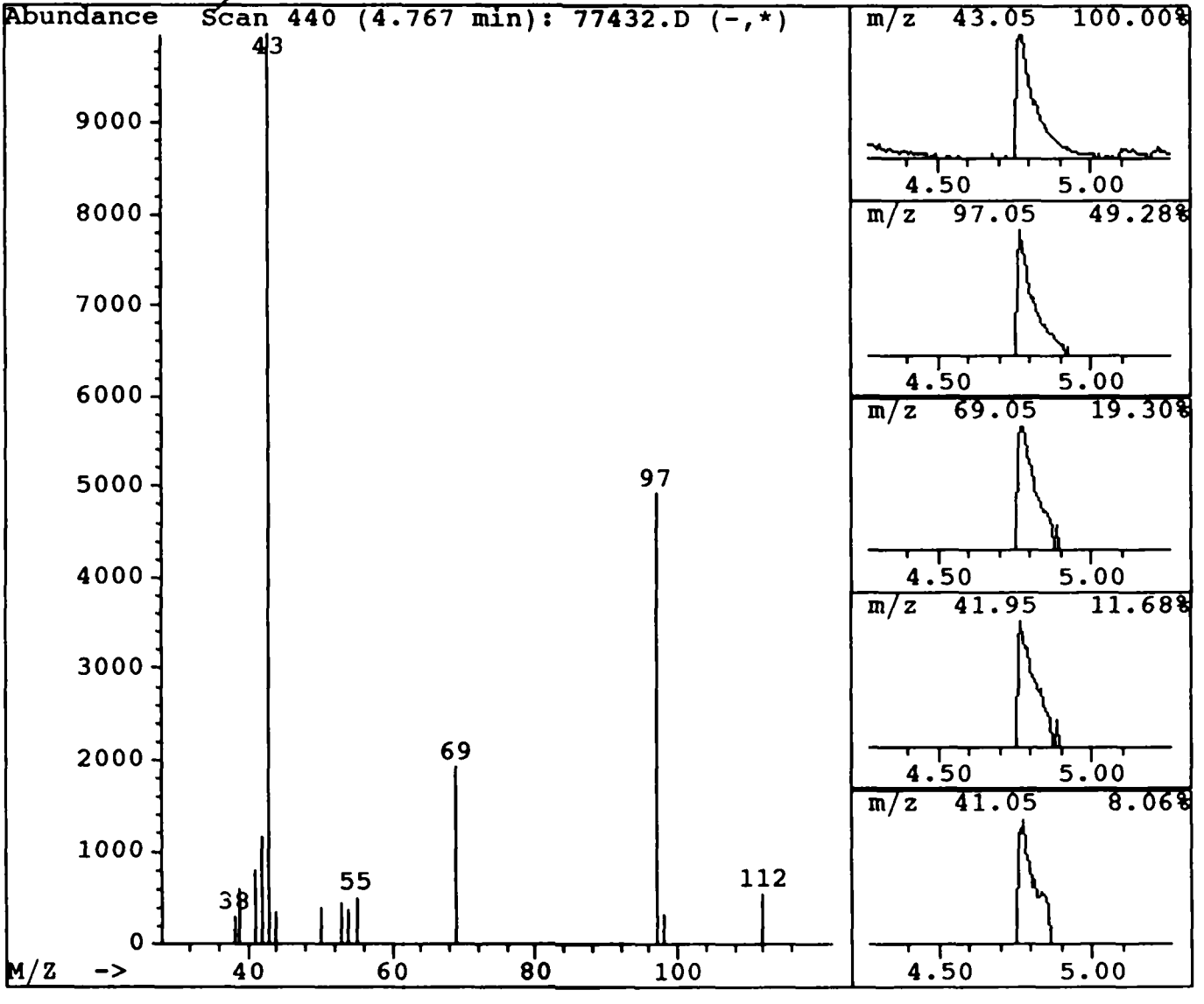
Tentatively Identified Compound (LSC) **000190**

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER934 EXT033096
Misc: HP6*USEPA*1541*01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	17.61 ug/mL	231536	CI30 1,4-Dichlorobenzene-	526034

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



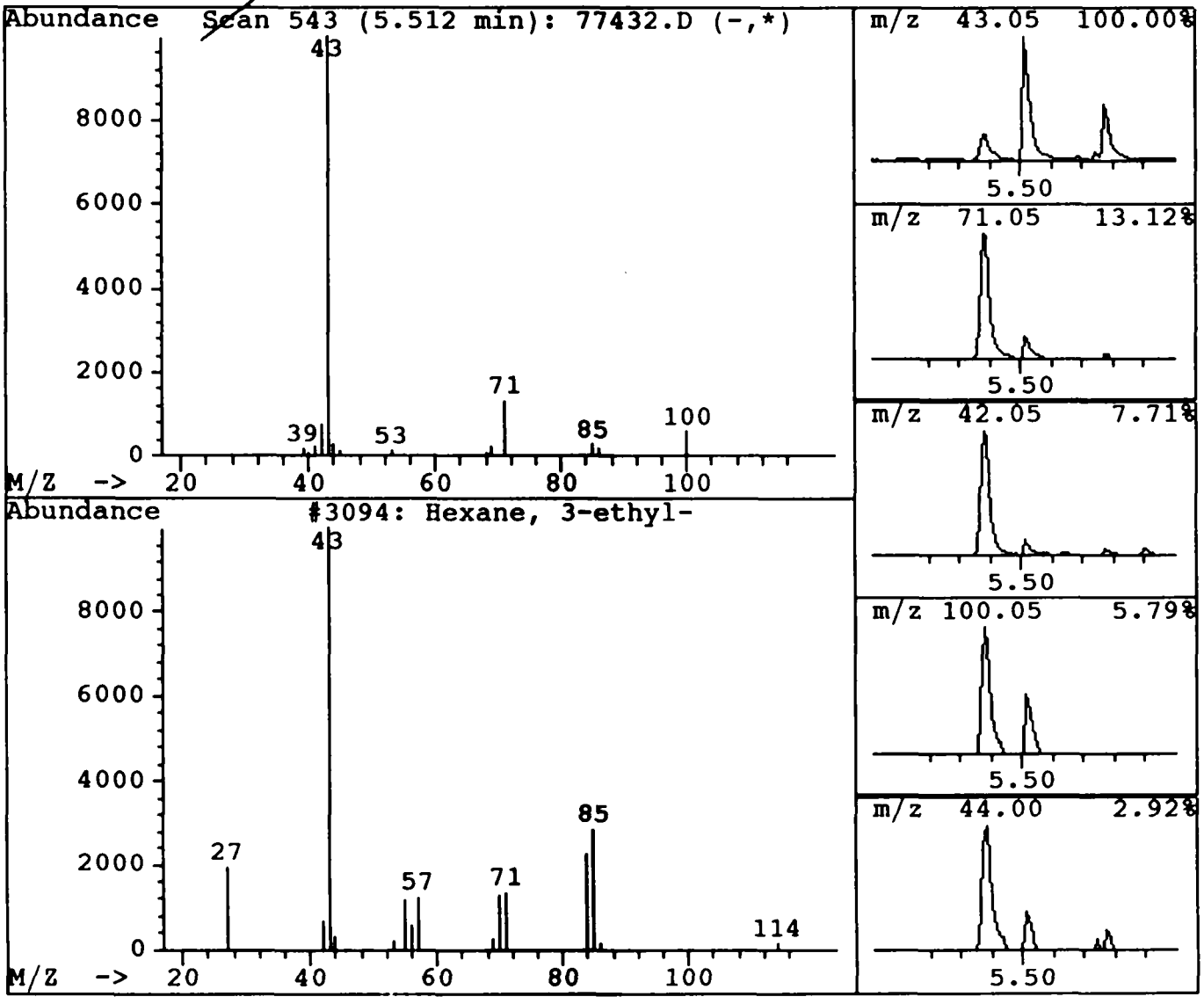
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER934 Volume EXT033096
Misc: HP6*USEPA*154.01*30.00gml/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	13.99 ug/mL	184025	CI30 1,4-Dichlorobenzene-	526034

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 3-ethyl-	3094	000619-99-8	39



Tentatively Identified Compound (LSC)

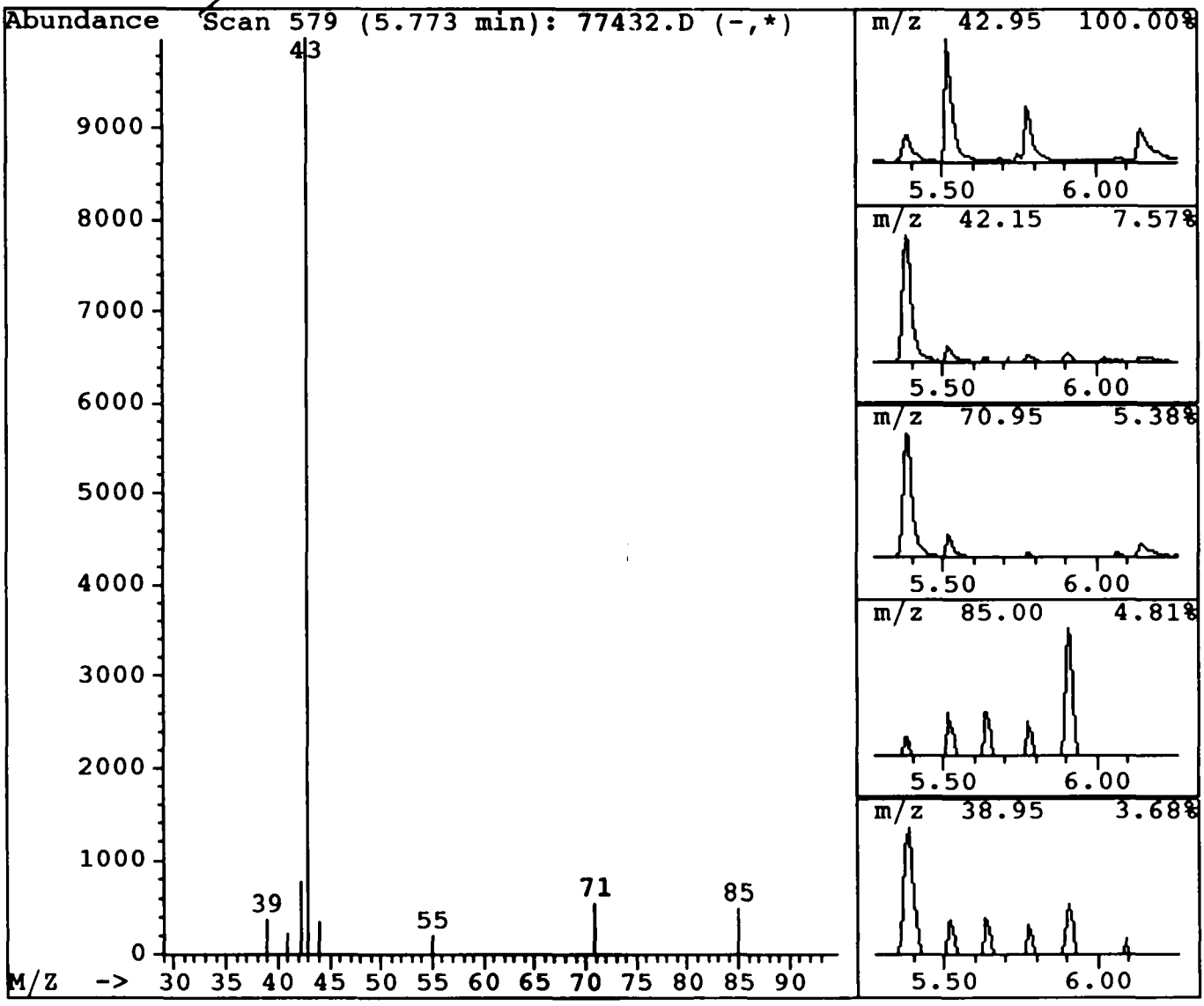
000192

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER934 EXT033096
Misc: HP6*USEPA*1547.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	6.62 ug/mL	87029	CI30 1,4-Dichlorobenzene-	526034

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 02:59

000193

Data File: C:\CHEMPC\DATA\040496\77432.D

Name: FER934 EXT033096

Misc: HP6*USEPA*1541*01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

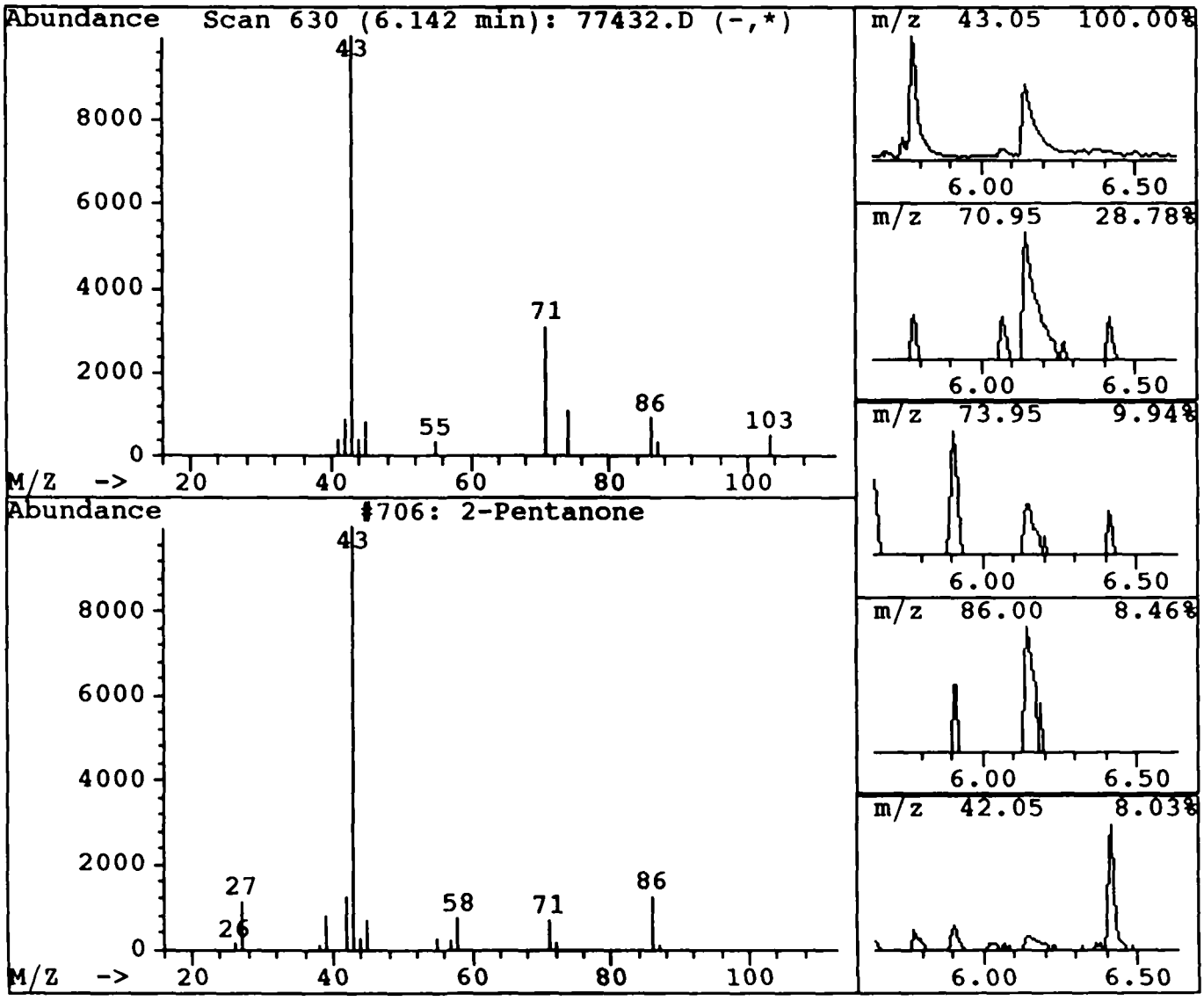
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.14	11.22 ug/mL	147572	CI30 1,4-Dichlorobenzene-	526034

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone	706	000107-87-9	43



Tentatively Identified Compound (LSC)

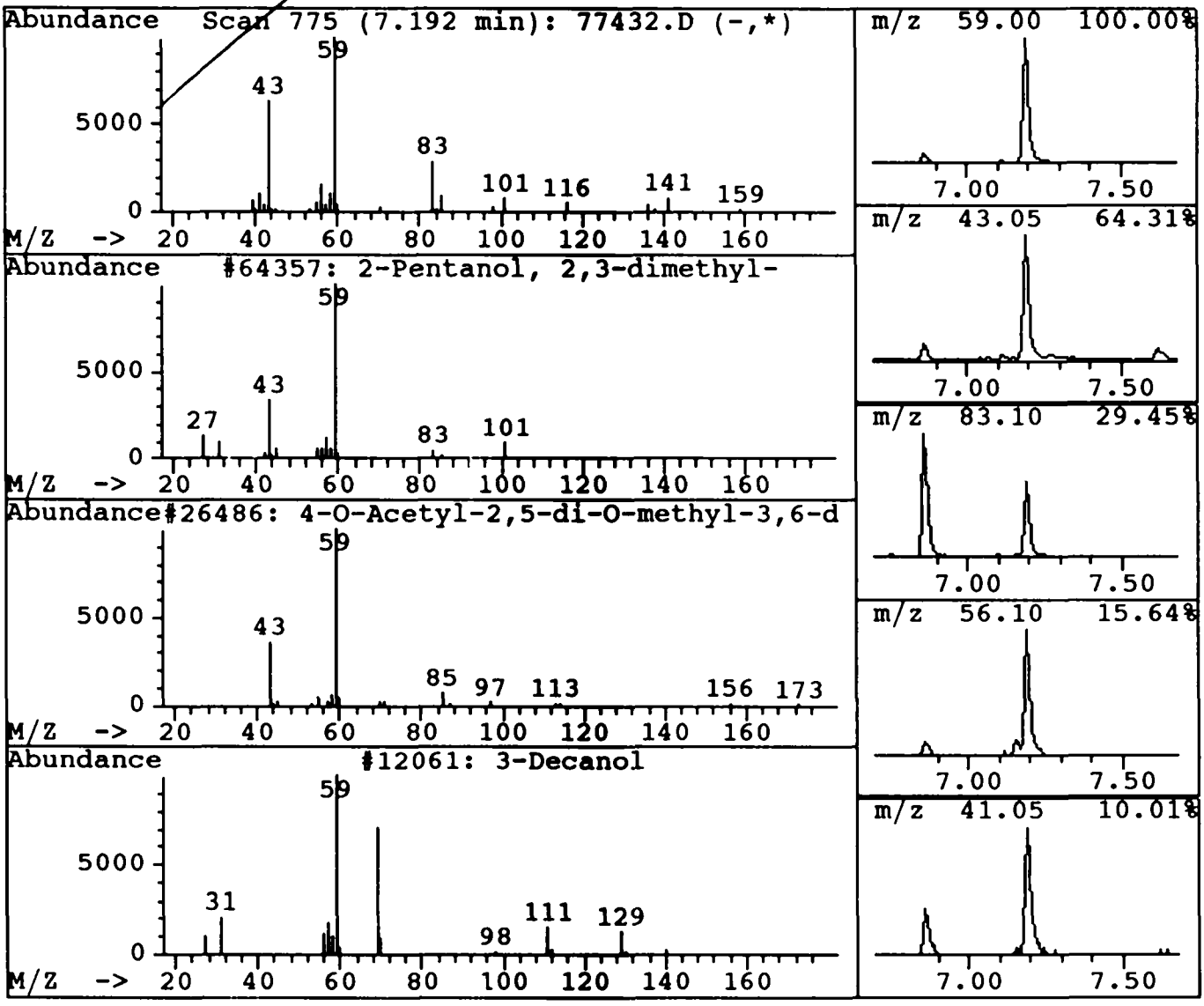
000194

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER034 EXT033096
Misc: HP6*USEPA*1547.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.19	40.00 ug/mL	1235038	CI40 Naphthalene-d8	1235038

Hit# of 15	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanol, 2,3-dimethyl-	64357	004911-70-0	38
2	4-O-Acetyl-2,5-di-O-methyl-3,6-dide	26486	000000-00-0	38
3	3-Decanol	12061	001565-81-7	36
4	2-Methyl-2-nonanol	12077	010297-57-1	33
5	Octanal, 7-hydroxy-3,7-dimethyl-	68361	000107-75-5	33



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 02:59

000195

Data File: C:\CHEMPC\DATA\040496\77432.D

Name: FER934 EXT033096

Misc: HP6*USEPA*154.01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

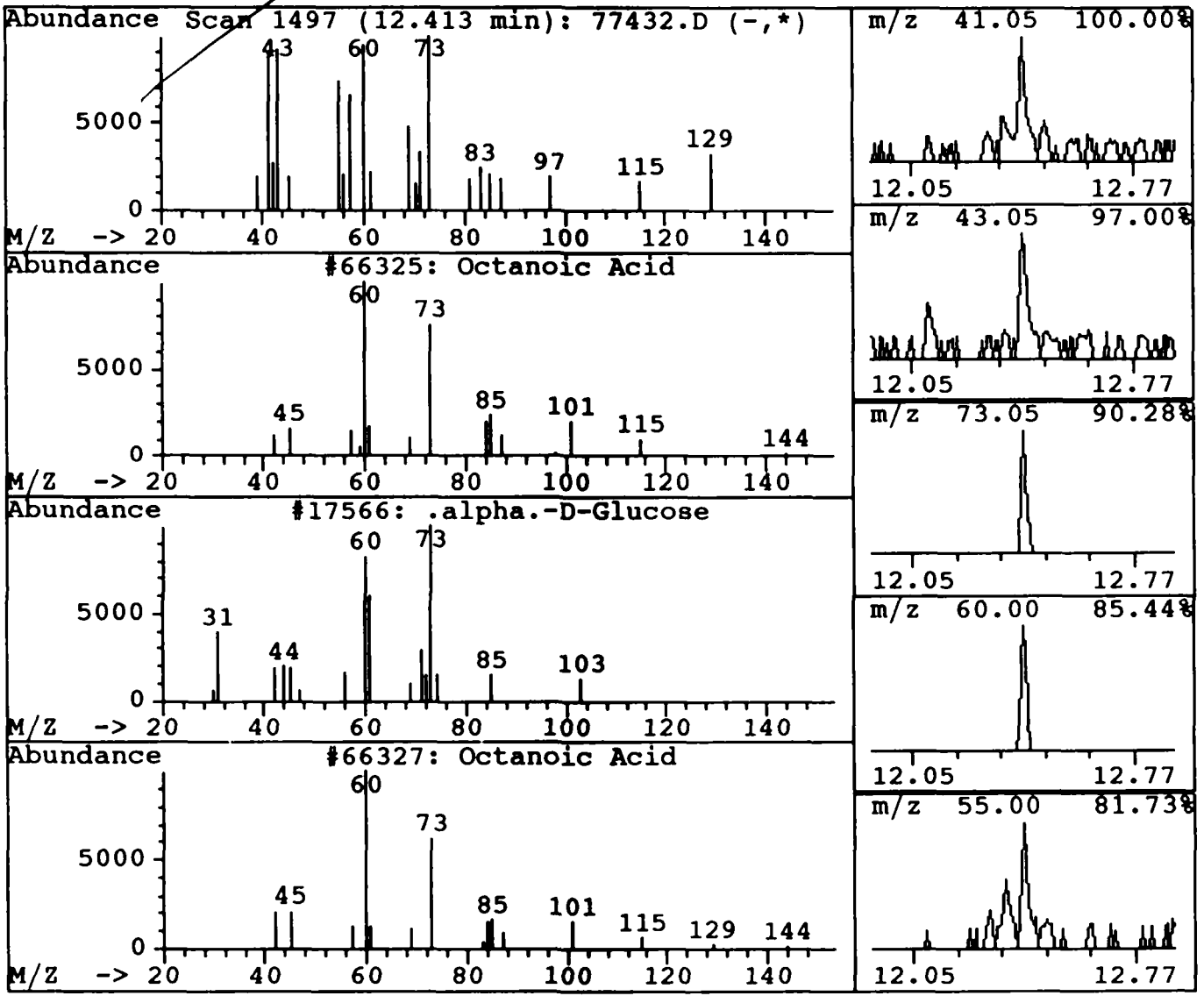
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.41	11.18 ug/mL	92165	C160 Phenanthrene-d10	329860

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octanoic Acid	66325	000124-07-2	47
2	.alpha.-D-Glucose	17566	000492-62-6	38
3	Octanoic Acid	66327	000124-07-2	37
4	Nonadecanol	40237	052783-43-4	22
5	2-Ethyl-1-dodecanol	26412	000000-00-0	16



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 02:59 **000196**

Data File: C:\CHEMPC\DATA\040496\77432.D

Name: FER934 EXT033096

Misc: HP6*USEPA*154.01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

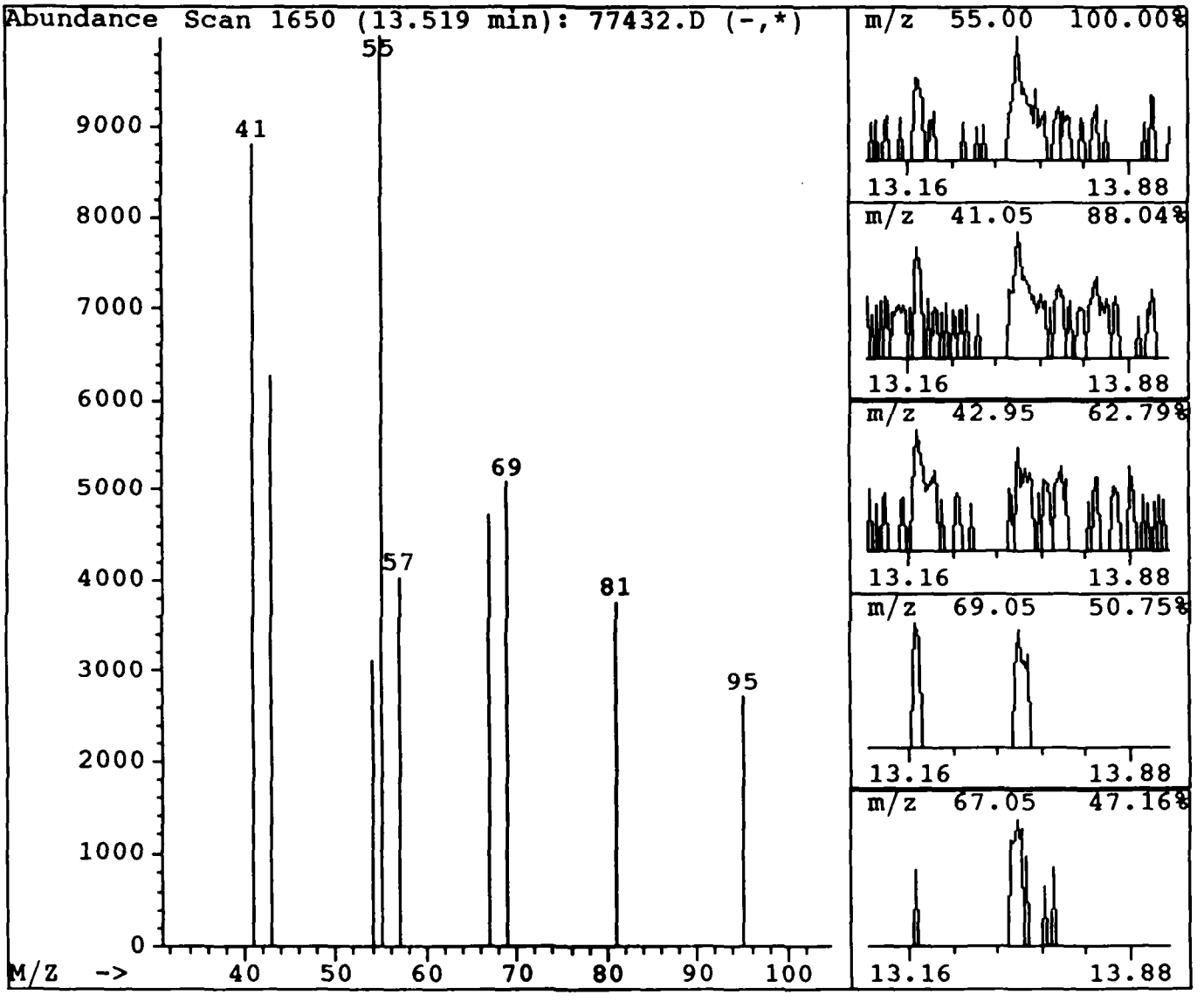
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.52	8.38 ug/mL	42703	CI70 Chrysene-d12	203730

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

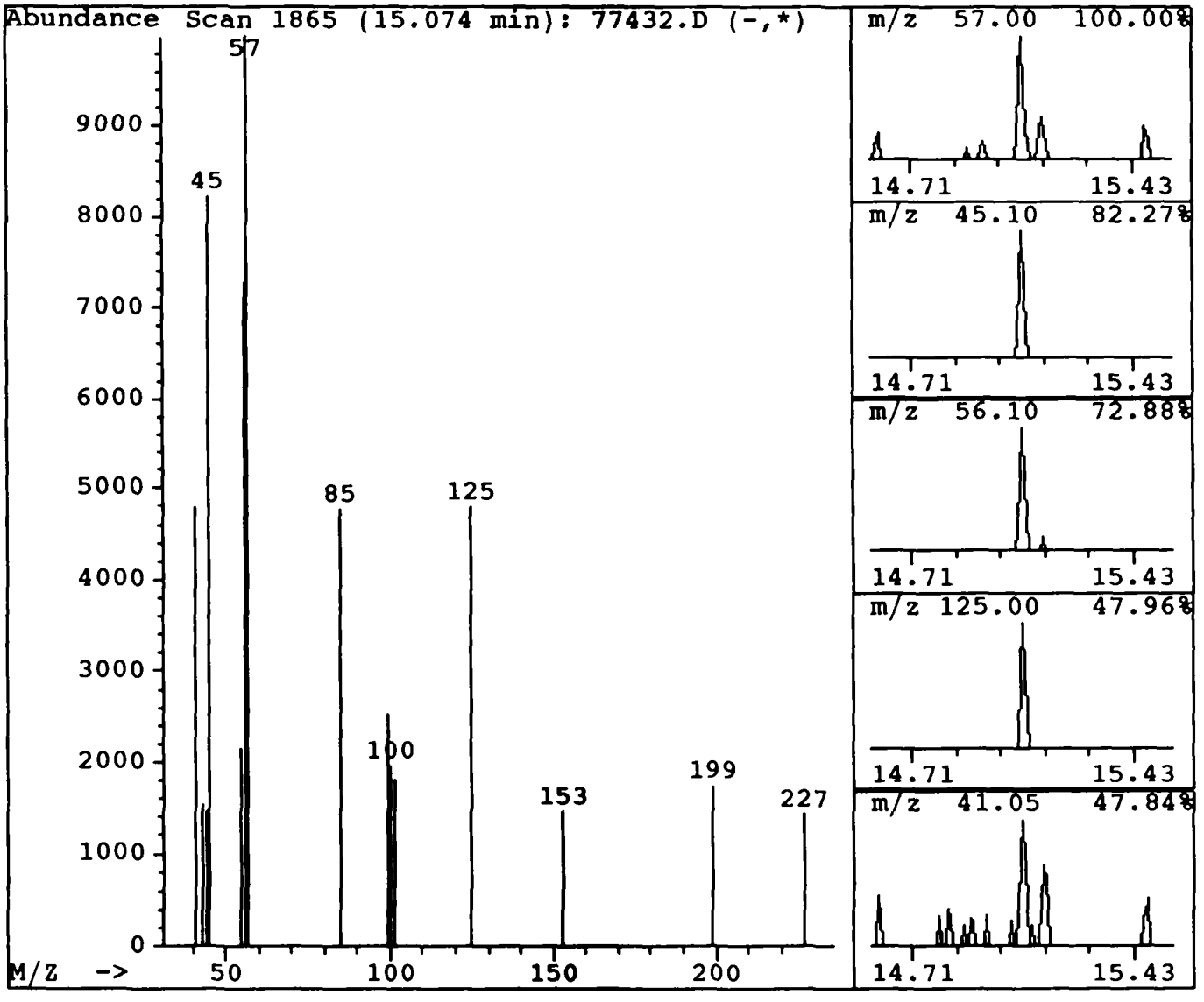
000197

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER934 EXT033096
Misc: HP6*USEPA*1541.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	8.92 ug/mL	45445	CI70 Chrysene-d12	203730

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 02:59

000198

Data File: C:\CHEMPC\DATA\040496\77432.D

Name: FER934 EXT033096

Misc: HP6*USEPA*1541*01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

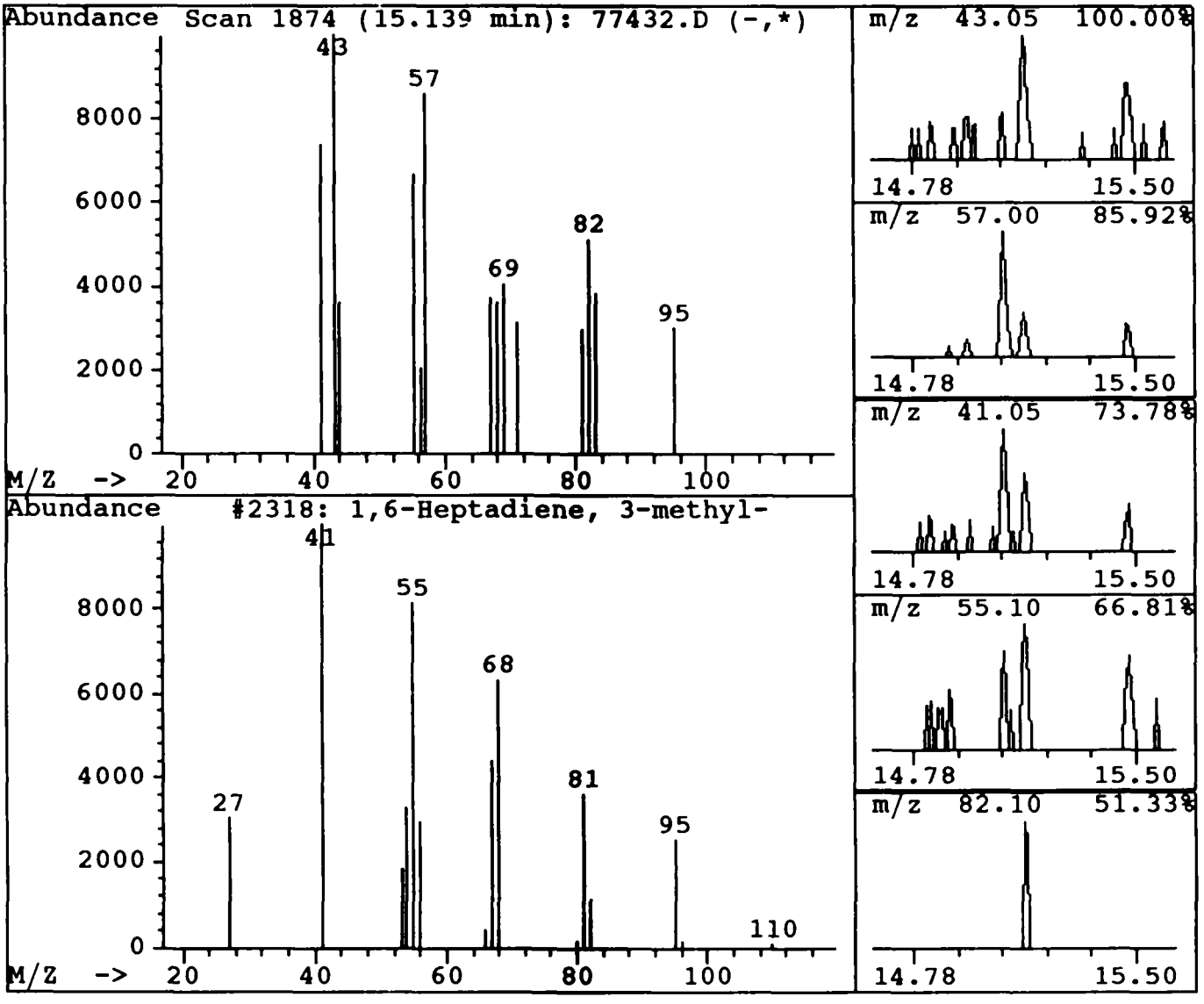
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	4.24 ug/mL	21599	CI70 Chrysene-d12	203730

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	1,6-Heptadiene, 3-methyl-	2318	050871-05-1	22



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 02:59

Data File: C:\CHEMPC\DATA\040496\77432.D

000199

Name: FER934 EXT033096

Misc: HP6*USEPA*154.01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

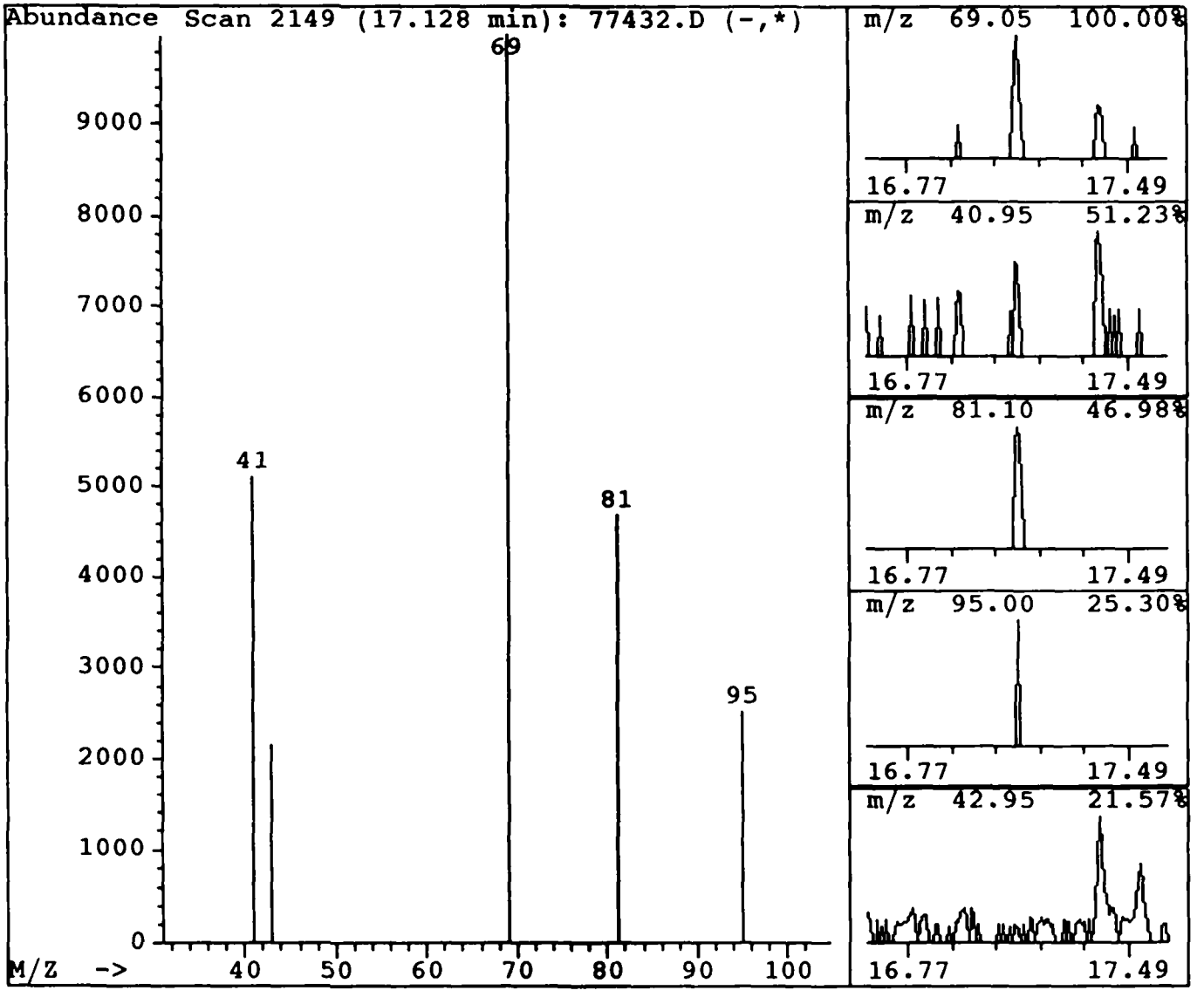
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.13	4.06 ug/mL	14652	CI75 Perylene-d12	144467

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

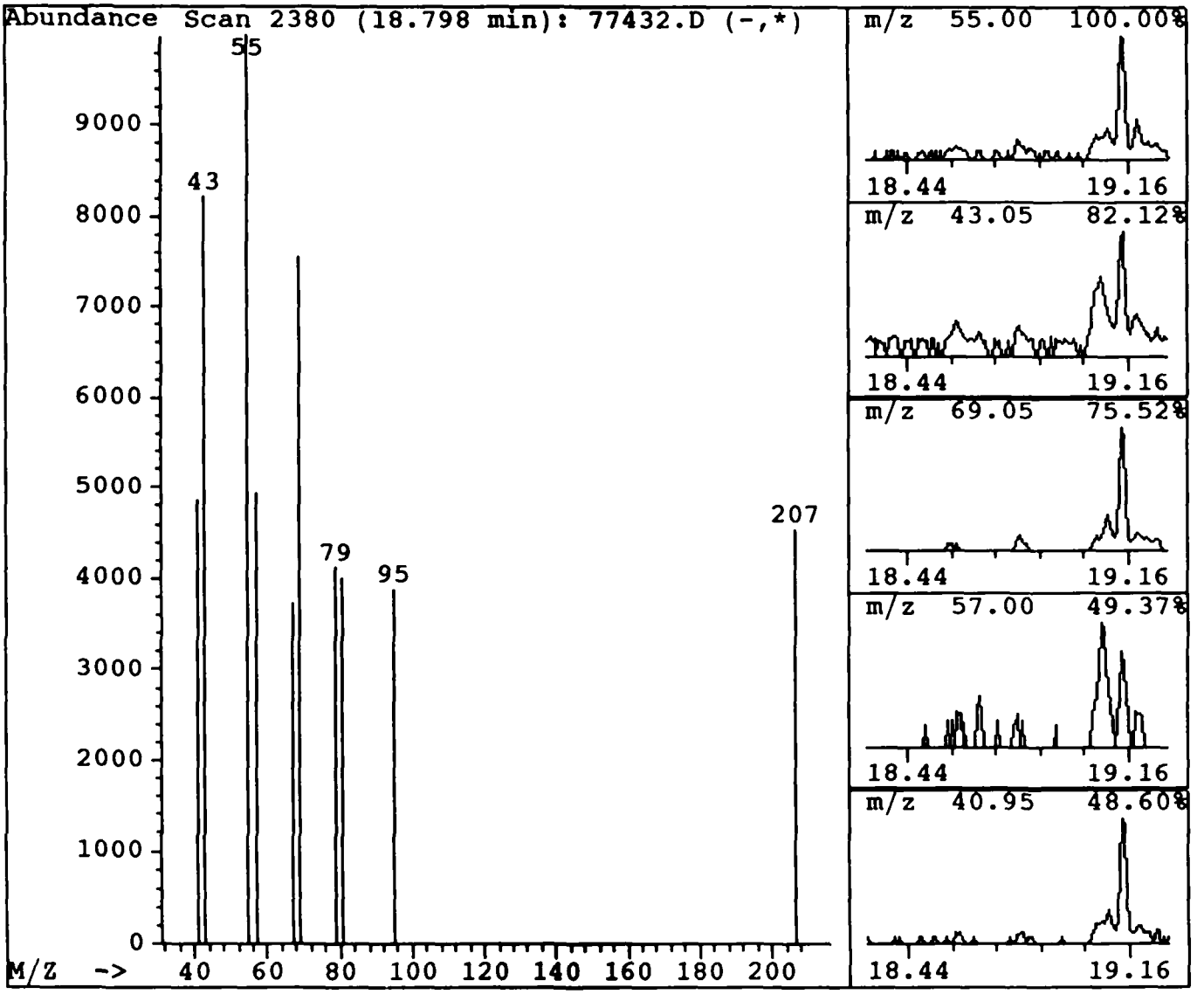
000200

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER034 Pourm EXT033096
Misc: HP6*USEPA*1547.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.80	27.45 ug/mL	99123	CI75 Perylene-d12	144467

Hit# of 8	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 02:59

000201

Data File: C:\CHEMPC\DATA\040496\77432.D

Name: FER934 EXT033096

Misc: HP6*USEPA*1547*01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

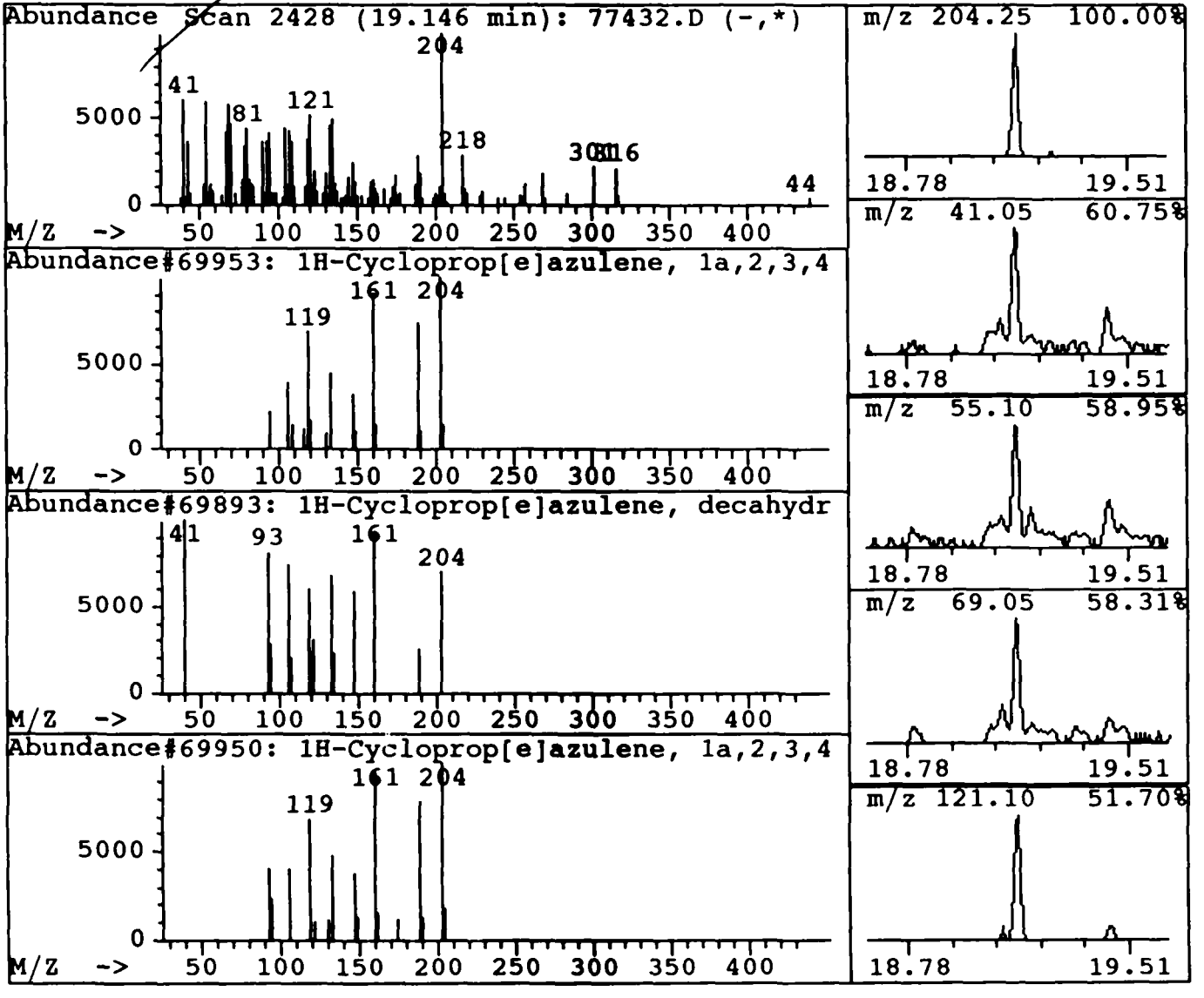
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.15	185.41 ug/mL	669635	C175 Perylene-d12	144467

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	69953	000489-40-7	49
2	1H-Cycloprop[e]azulene, decahydro-1	69893	025246-27-9	46
3	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	69950	000489-40-7	46
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	69951	000489-40-7	43
5	Naphthalene, decahydro-4a-methyl-1-	23960	017066-67-0	38



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 02:59 **000202**

Data File: C:\CHEMPC\DATA\040496\77432.D

Name: FER934 EXT033096

Misc: HP6*USEPA*154V01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

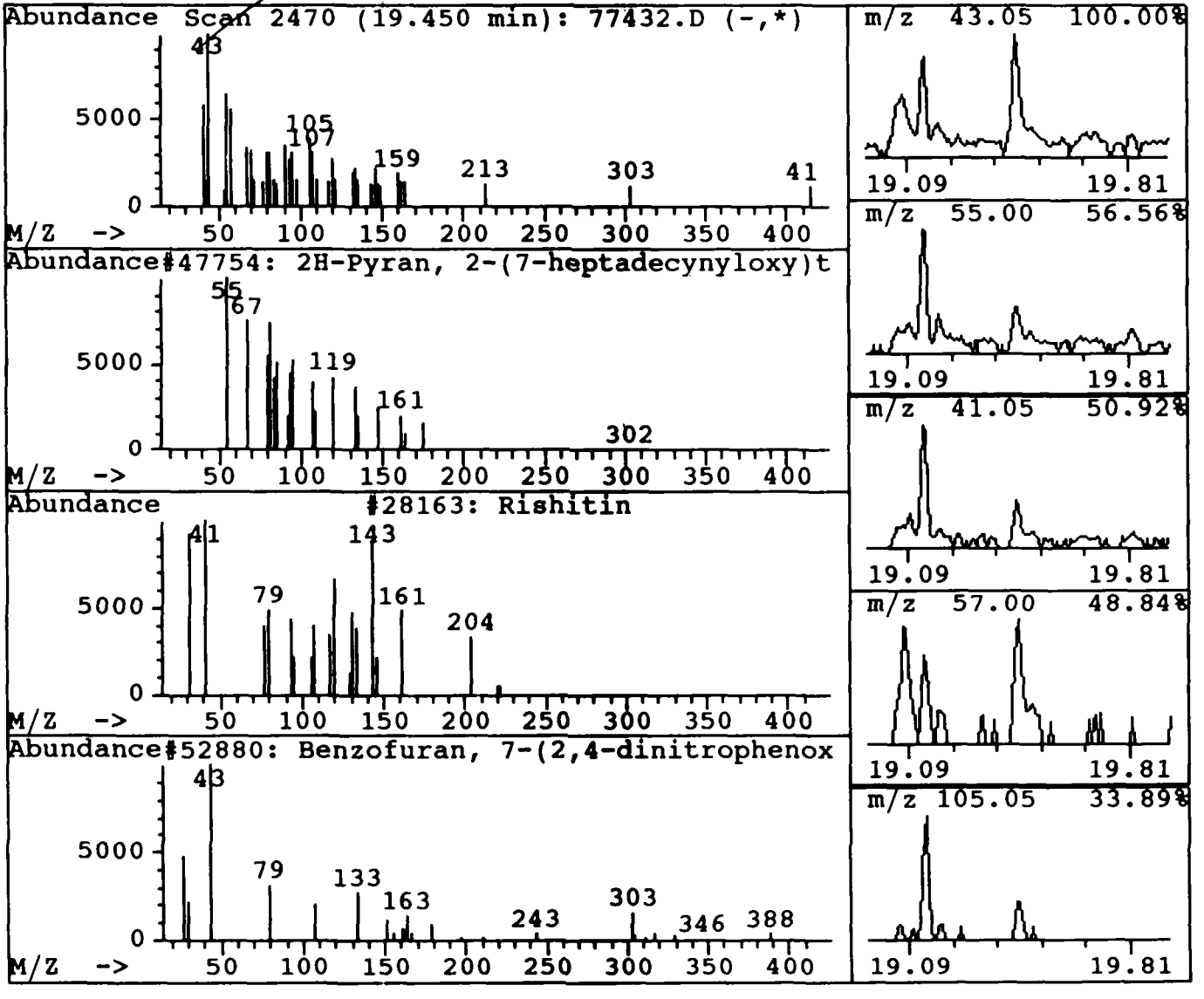
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.45	67.99 ug/mL	245550	CI75 Perylene-d12	144467

Hit# of 15	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran, 2-(7-heptadecynyloxy)tetr	47754	056599-50-9	25
2	Rishitin	28163	018178-54-6	16
3	Benzofuran, 7-(2,4-dinitrophenoxy)-	52880	062059-48-7	10
4	1H-Cycloprop[e]azulene, decahydro-1	24446	028580-43-0	10
5	1H-Cyclopropa[a]naphthalene, 1a,2,3	69878	017334-55-3	10



Tentatively Identified Compound (LSC)

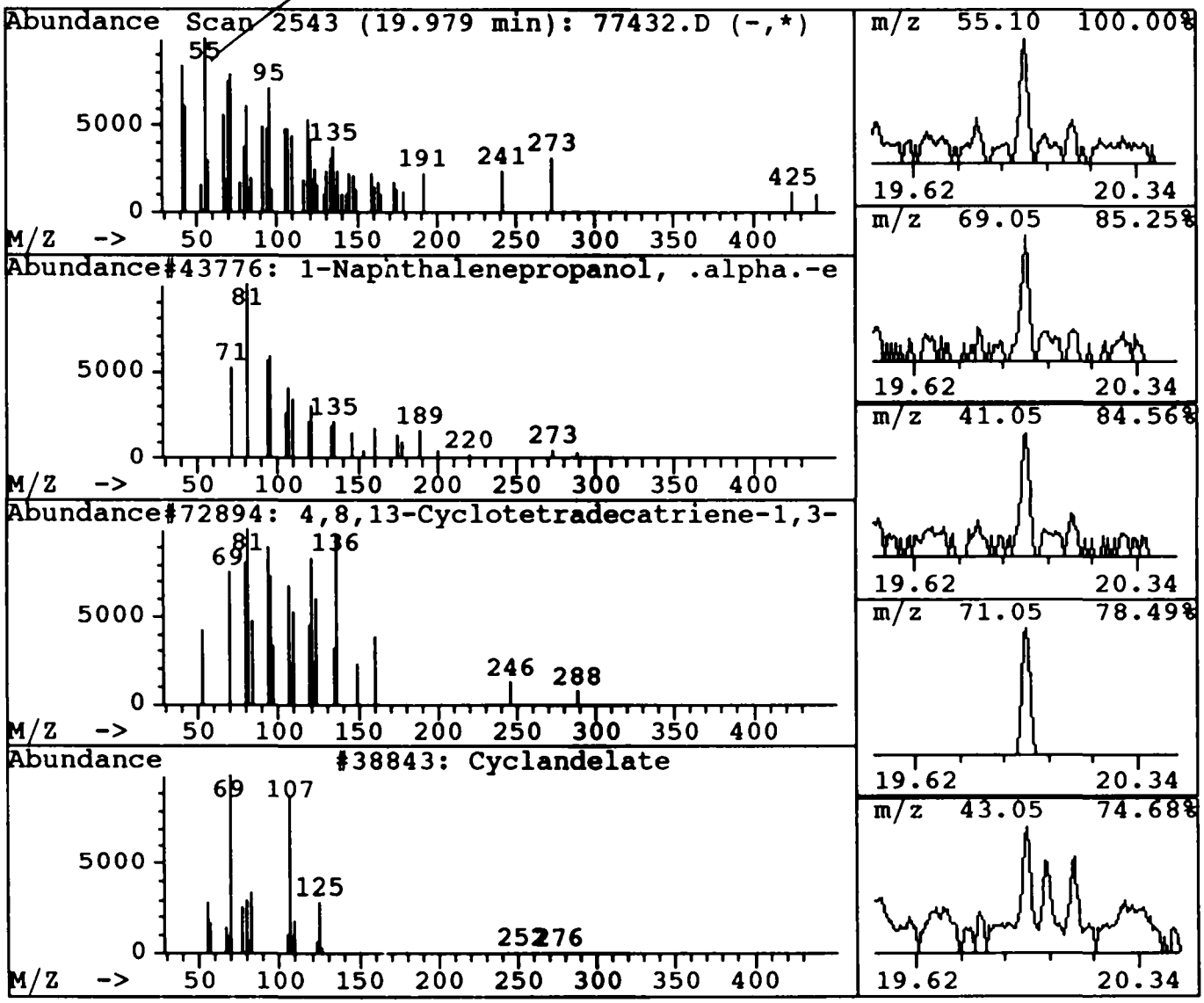
000203

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER934 Volume EXT033096
Misc: HP6*USEPA*1541.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.98	81.23 ug/mL	293370	CI75 Perylene-d12	144467

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Naphthalenepropanol, .alpha.-ethe	43776	004549-12-6	59
2	4,8,13-Cyclotetradecatriene-1,3-dio	72894	007220-78-2	37
3	Cyclandelate	38843	000456-59-7	22
4	1,4-Undecadiene, (Z)-	10442	055976-14-2	14
5	1,6,10-Dodecatrien-3-ol, 3,7,11-tri	70624	000142-50-7	12



Tentatively Identified Compound (LSC)

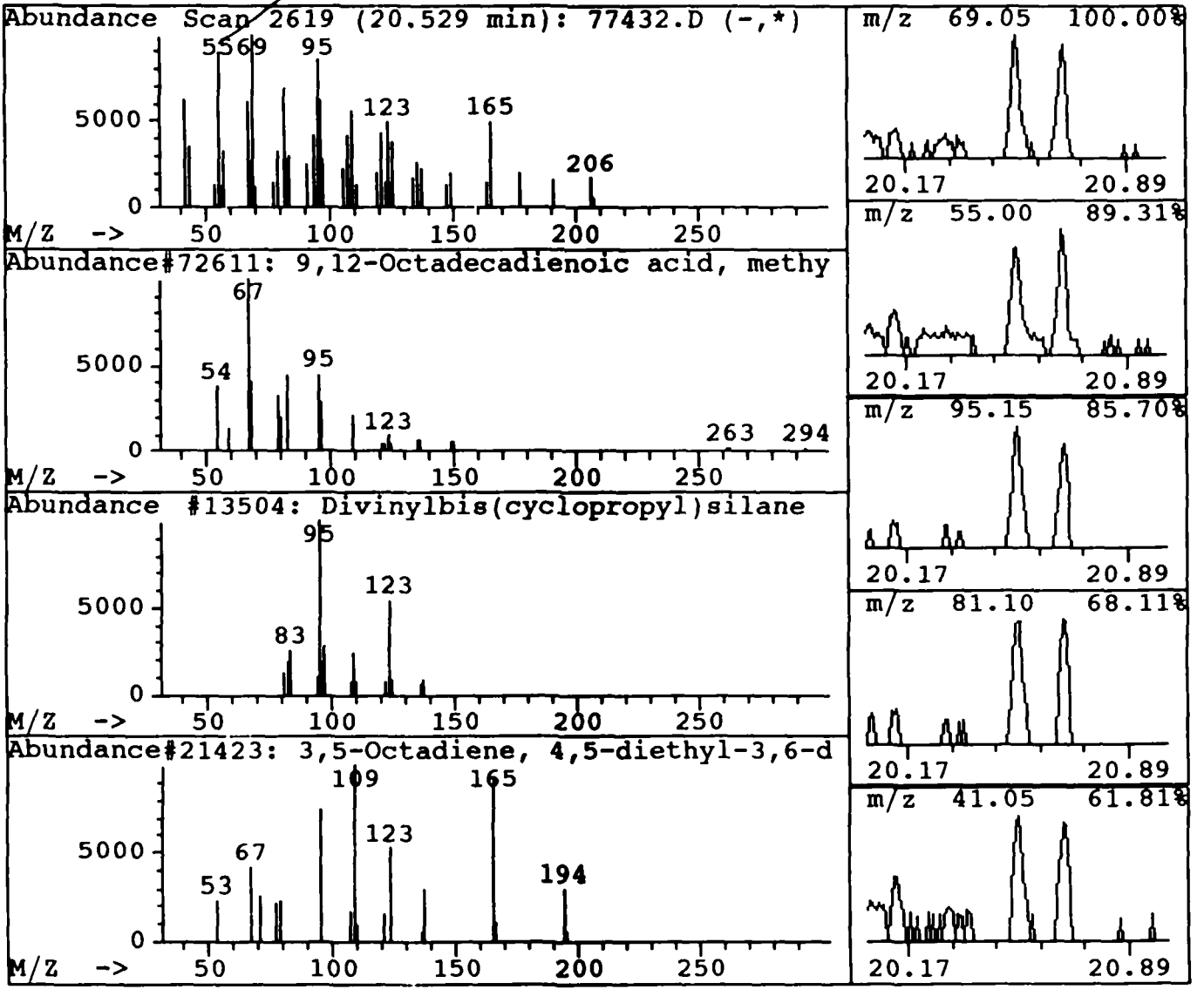
000204

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER034 EXT033096
Misc: HP6*USEPA*154*01*30.00gml/0.5ml/2uLL*MS517
Method: OLM03_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.53	45.51 ug/mL	164383	CL75 Perylene-d12	144467

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	9,12-Octadecadienoic acid, methyl e	72611	002566-97-4	35
2	Divinylbis(cyclopropyl)silane	13504	000000-00-0	22
3	3,5-Octadiene, 4,5-diethyl-3,6-dime	21423	061233-79-2	22
4	3-Octadecyne	34014	061886-64-4	22
5	4,11,11-Trimethyltricyclo[5.3.1.0(5	24401	000000-00-0	18



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 02:59 **000205**

Data File: C:\CHEMPC\DATA\040496\77432.D

Name: FER934 EXT033096

Misc: HP6*USEPA*154/01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

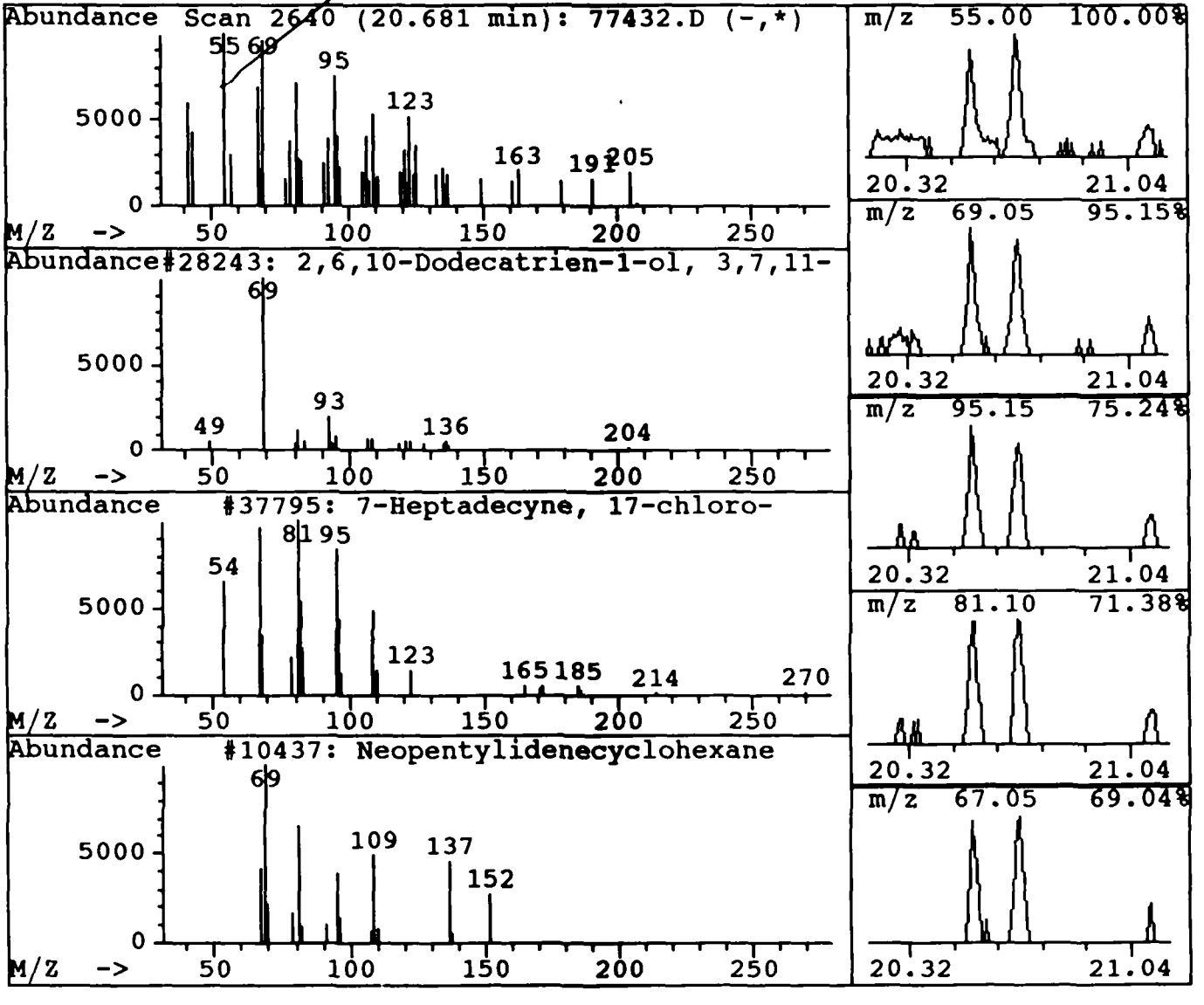
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.68	76.46 ug/mL	276139	CI75 Perylene-d12	144467

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2,6,10-Dodecatrien-1-ol, 3,7,11-tri	28243	004602-84-0	32
2	7-Heptadecyne, 17-chloro-	37795	056554-75-7	27
3	Neopentylidenecyclohexane	10437	039546-80-0	27
4	2-Cyclohexene-1-carboxaldehyde, 2,6	27726	056772-07-7	22
5	Bicyclo[2.2.1]heptane, 2,2,3-trimet	7066	020536-41-8	22



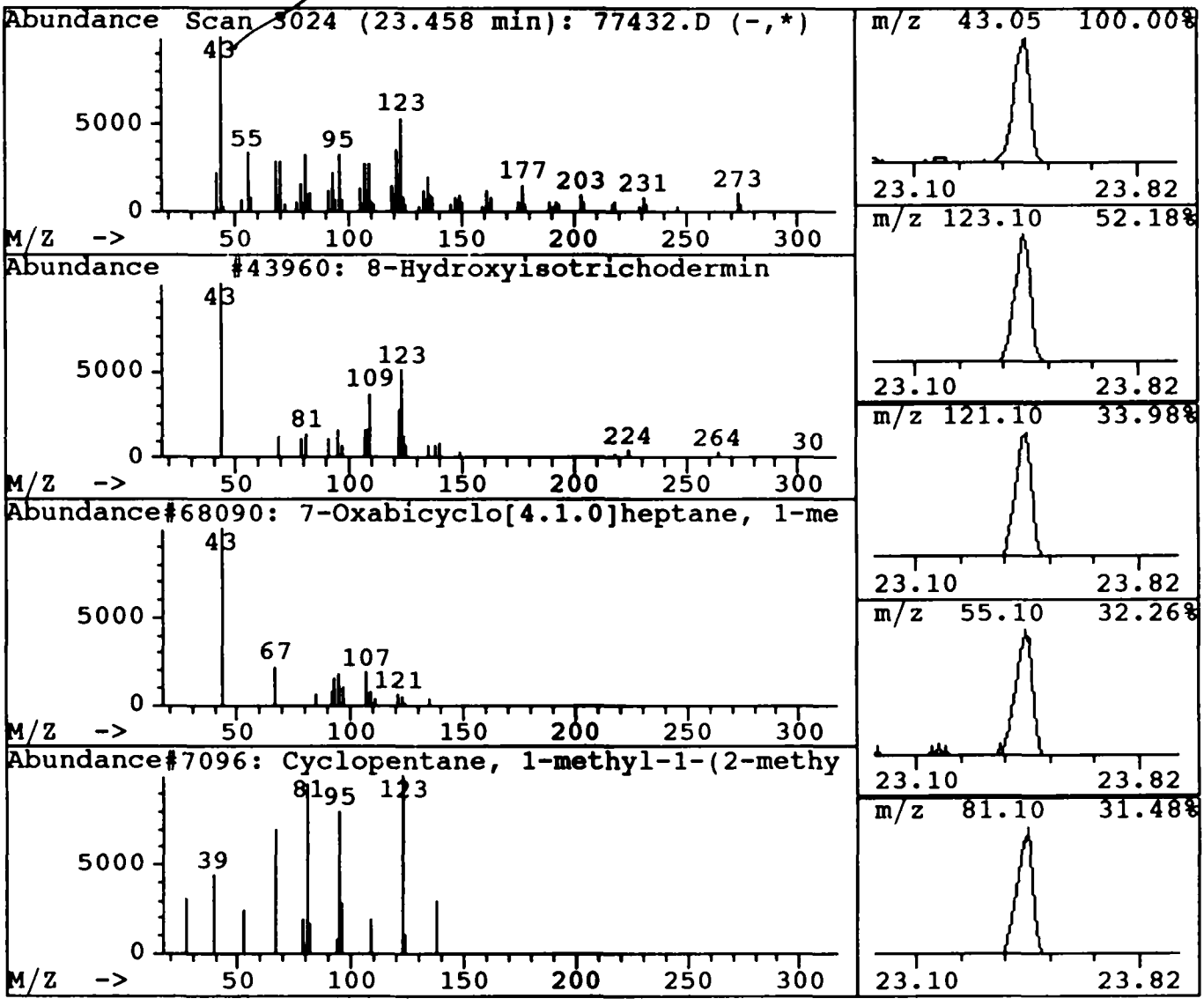
Tentatively Identified Compound (LSC) **000206**

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER934 EXT033096
Misc: HP6*USEPA*1547.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
23.46	206.27 ug/mL	744980	CI75 Perylene-d12	144467

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	8-Hydroxyisotrichodermin	43960	000000-00-0	35
2	7-Oxabicyclo[4.1.0]heptane, 1-methy	68090	000096-08-2	25
3	Cyclopentane, 1-methyl-1-(2-methyl-	7096	074764-47-9	16
4	Bioallethrin	43126	000584-79-2	16
5	Cyclopentene, 1,3-dimethyl-2-(1-met	7047	061142-32-3	14



Tentatively Identified Compound (LSC) **000207**

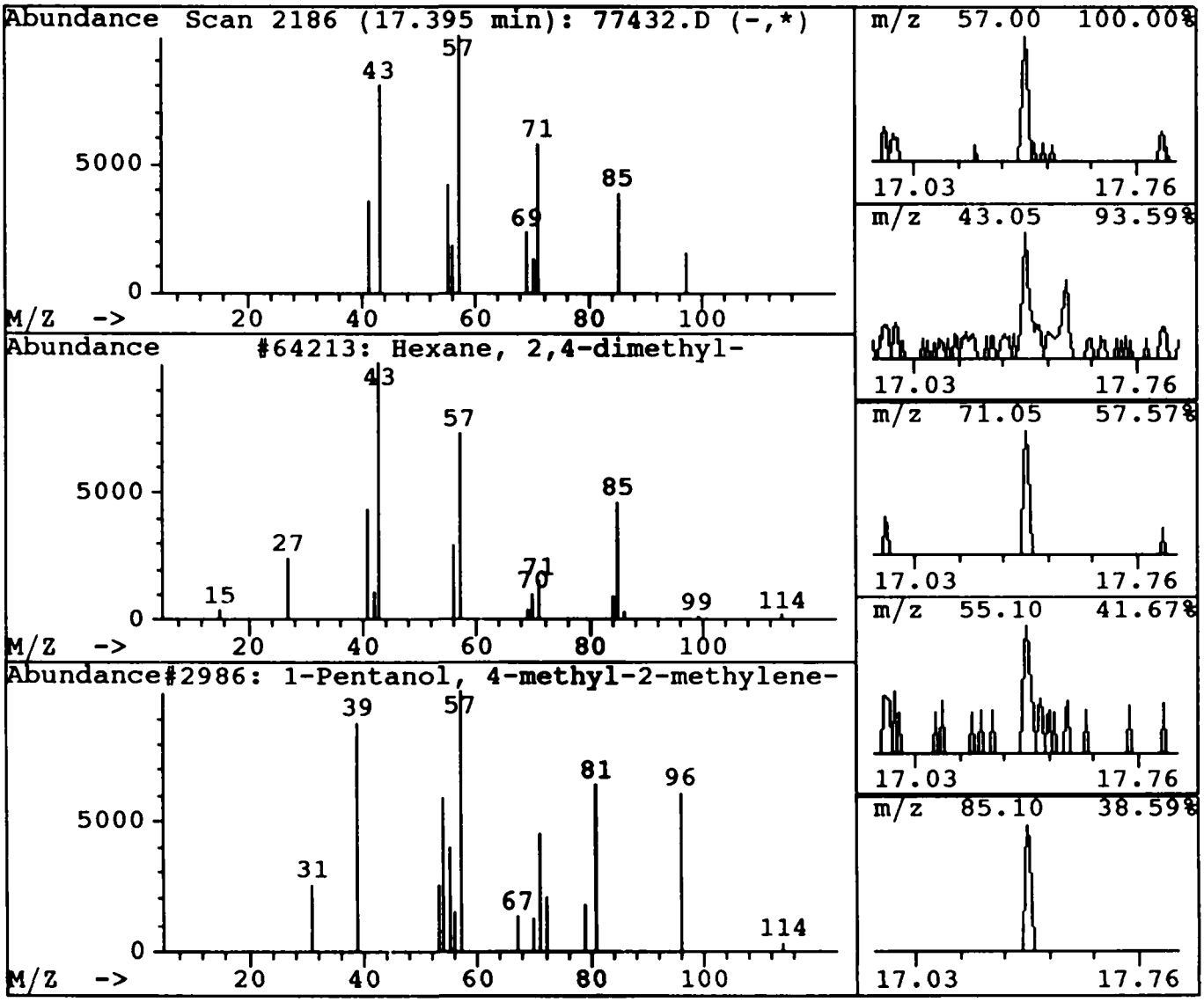
Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER934 Lynne EXT033096
Misc: HP6*USEPA*1547*01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6 4/4/96
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Branched alkane

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.39	15.58 ug/mL	56265	CI75 Perylene-d12	144467

Hit# of 2	Tentative ID	Ref#	CAS#	Qual
1	Hexane, 2,4-dimethyl-	64213	000589-43-5	28
2	1-Pentanol, 4-methyl-2-methylene-	2986	000000-00-0	28



Tentatively Identified Compound (LSC)

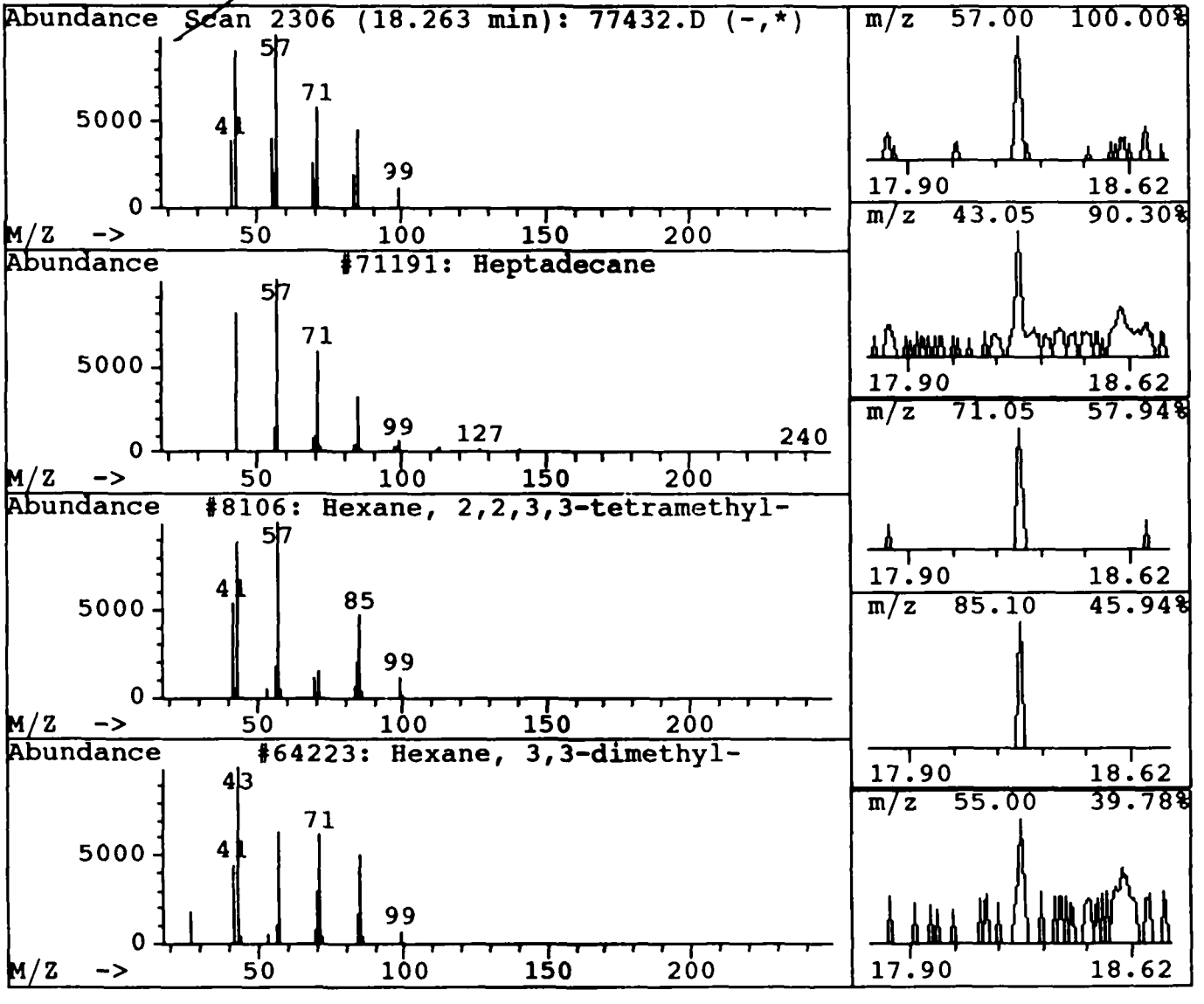
000208

Operator ID: AK Date Acquired: 5 Apr 96 02:59
Data File: C:\CHEMPC\DATA\040496\77432.D
Name: FER934 EXT033096
Misc: HP6*USEPA*1547.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.26	12.32 ug/mL	44497	C175 Perylene-d12	144467

Hit# of 9	Tentative ID	Ref#	CAS#	Qual
1	Heptadecane	71191	000629-78-7	78
2	Hexane, 2,2,3,3-tetramethyl-	8106	013475-81-5	40
3	Hexane, 3,3-dimethyl-	64223	000563-16-6	33
4	Decane, 5-methyl-	67316	013151-35-4	28
5	1-Pentanol, 4-methyl-2-methylene-	2986	000000-00-0	25



1F

EPA SAMPLE NO.

FER35

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542702

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77439

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0(uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/14/96

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.15	130	AJ
2.		Aldol condensation	3.35	260	ABJ
3.		Aldol condensation	4.08	220	AJ
4.		Aldol condensation	4.73	490	ABJ
5.		Aldol condensation	5.50	250	ABJ
6.		Unknown	12.42	140	J
7.		Unknown	15.07	170	J
8.		Unknown	15.15	230	J
9.		Unknown	16.47	170	J
10.		Unknown	16.78	150	J
11.		Unknown	16.98	140	J
12.		Unknown	17.83	98	J
13.		Unknown	17.97	200	J
14.		Unknown	19.15	4500	J
15.		Unknown	19.45	3800	J
16.		Unknown	20.53	420	J
17.		Unknown	20.68	1800	J

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 16:00

Data File: C:\CHEMPC\DATA\040596\77439.D

Name: FER35 EXT033096

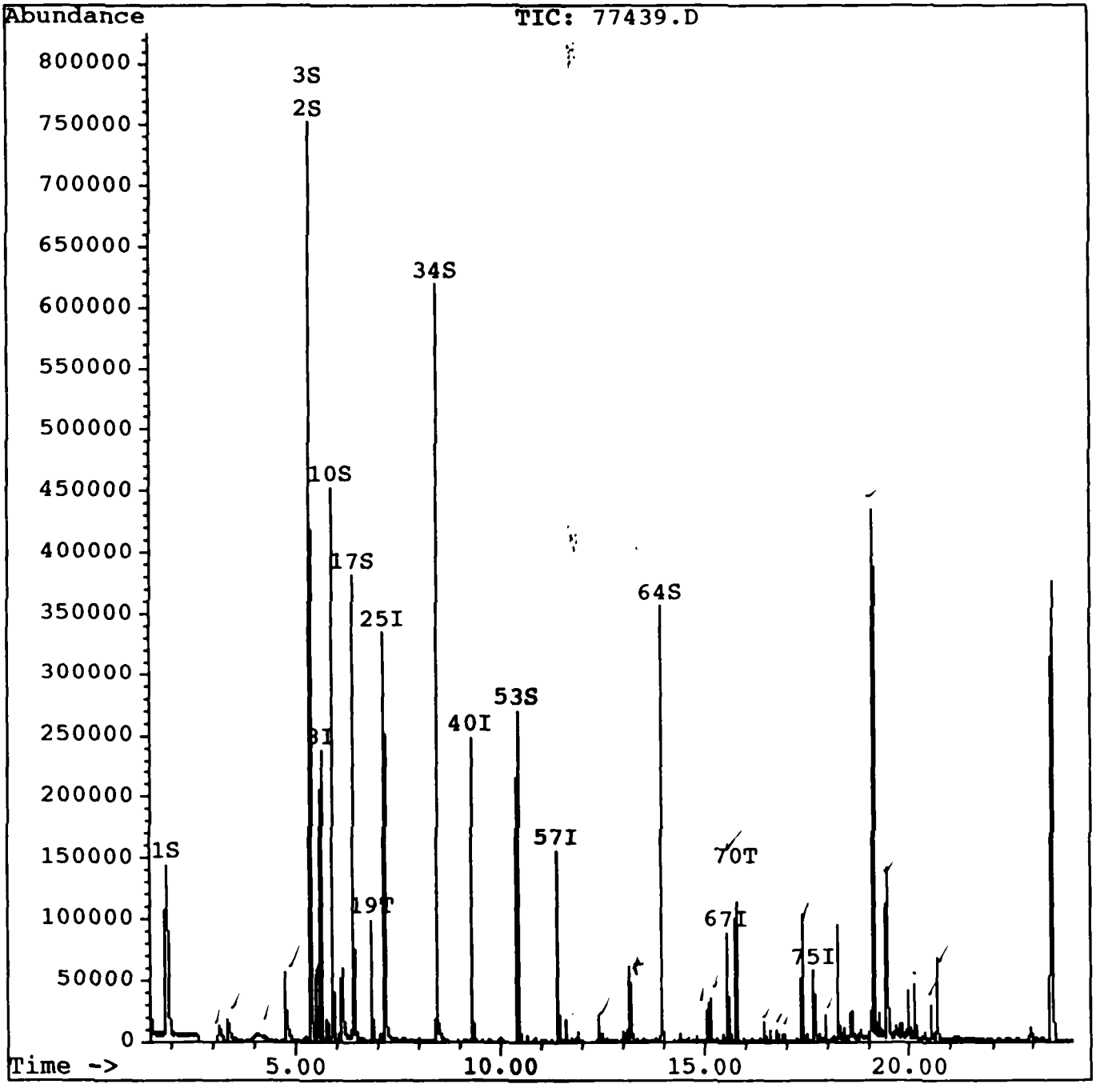
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 16:00

000213

Data File: C:\CHEMPC\DATA\040596\77439.D

Name: FER35 EXT033096

Misc: HP6*USEPA*1542 .02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

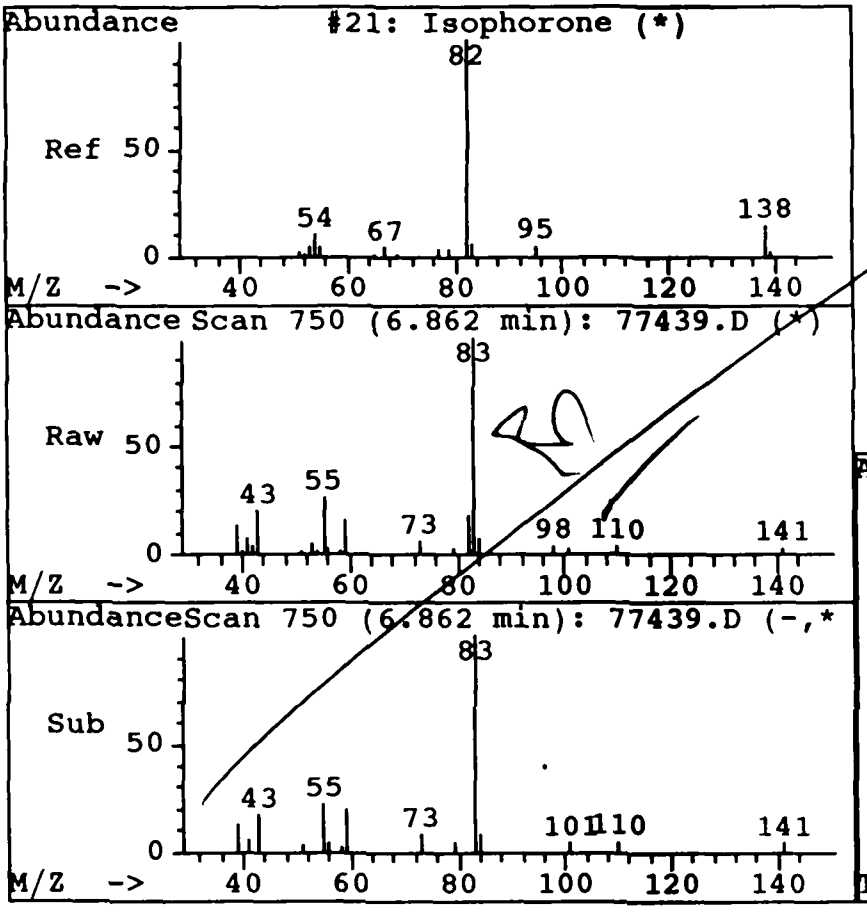
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	62029	40.00	ug/mL	0.02
25) CI40 Naphthalene-d8	7.16	136	184286	40.00	ug/mL	0.01
40) CI50 Acenaphthene-d10	9.30	164	85698	40.00	ug/mL	0.01
57) CI60 Phenanthrene-d10	11.41	188	99469	40.00	ug/mL	0.01
67) CI70 Chrysene-d12	15.57	240	65685	40.00	ug/mL	0.01
75) CI75 Perylene-d12	17.69	264	59194	40.00	ug/mL	0.01
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.89	112	158001	140.81	ug/mL	93.87%
2) CS45 Phenol-d5	5.37	99	212053	104.71	ug/mL	69.81%
3) CS70 2-Chlorophenol-d4	5.36	132	205613	117.42	ug/mL	78.28%
10) CS75 1,2-Dichlorobenzene-d	5.90	152	91241	70.53	ug/mL	70.53%
17) CS20 Nitrobenzene-d5	6.41	82	151355	70.01	ug/mL	70.01%
34) CS25 2-Fluorobiphenyl	8.45	172	228926	79.44	ug/mL	79.44%
53) CS55 2,4,6-Tribromophenol	10.43	330	47749	133.60	ug/mL	89.07%
64) CS30 Terphenyl-d14	13.96	244	149946	105.90	ug/mL	105.90%
Target Compounds						ISTD#
~~19) C415 Isophorone~~	~~6.86~~	~~82~~	~~8932~~	~~2.84~~	~~ug/mL~~	002#
70) C745 bis(2-Ethylhexyl)phth	15.80	149	37884	22.98	ug/mL	005

FALSE POSITIVE

1.0148

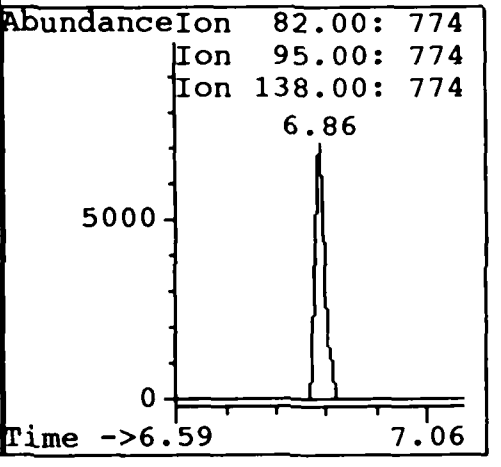
(#) = qualifier out of range

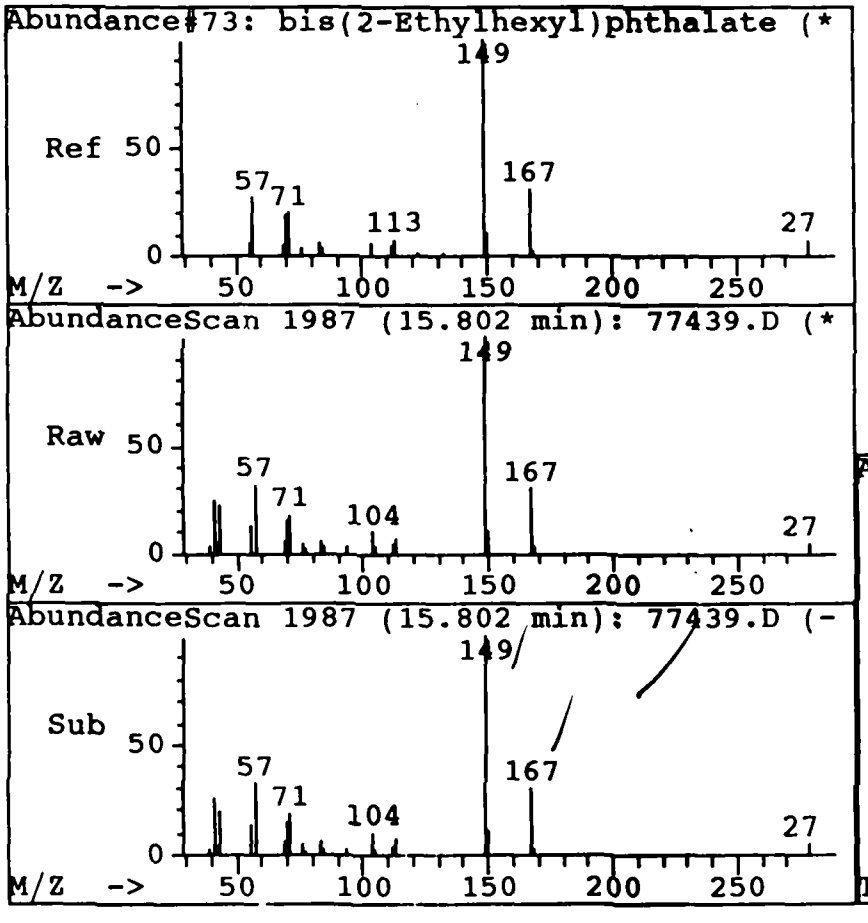


#19 Inst: HP6
C415 Isophorone
Concen: 2.84 ug/mL
RT: 6.86 min Scan# 750
Delta R.T. 0.18 min
Lab File: 77439.D
Acq: 5 Apr 96 16:00
FER35

Tgt Ion: 82 Area: 8932

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	0.0	0.0	35.2
0	0.0	0.0	0.0

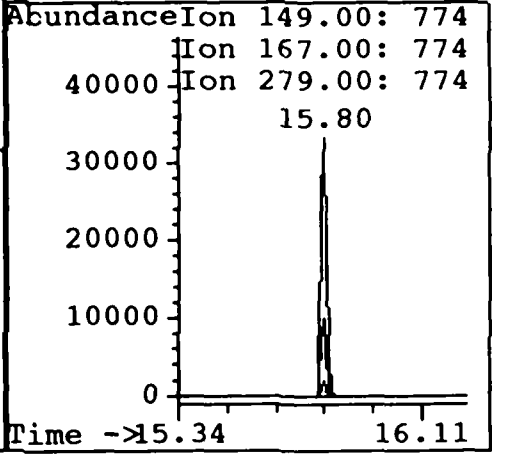




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 22.98 ug/mL
RT: 15.80 min Scan# 1987
Delta R.T. -0.00 min
Lab File: 77439.D
Acq: 5 Apr 96 16:00
FER35

Tgt Ion: 149 Area: 37884

Ion	Ratio	Lower	Upper
149	100		
167	29.6	13.5	53.5
279	5.1	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00 **000215**

Data File: C:\CHEMPC\DATA\040596\77439.D

Name: FER35 EXT033096

Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

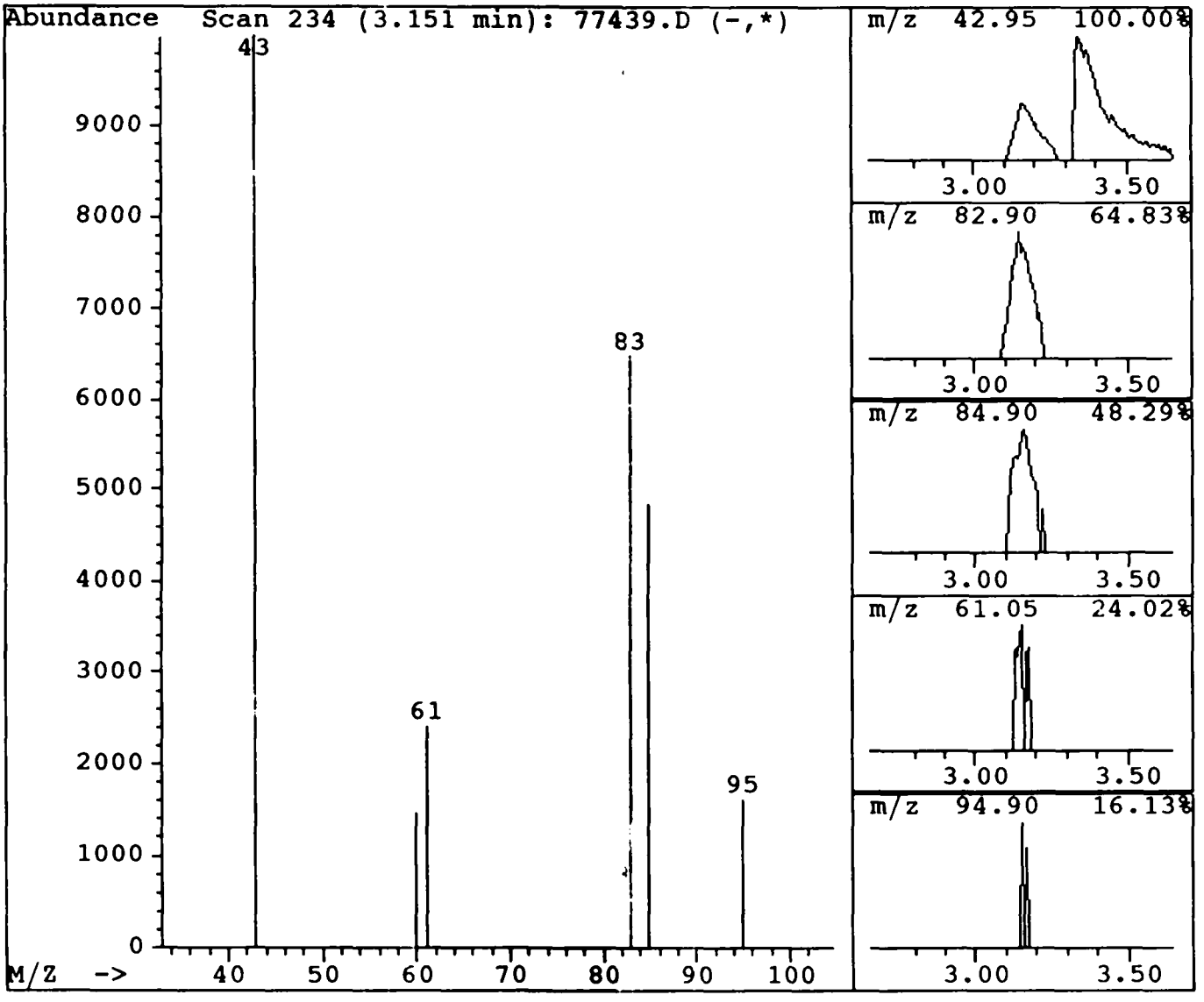
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.15	5.98 ug/mL	58766	CI30 1,4-Dichlorobenzene-	393098

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00

000216

Data File: C:\CHEMPC\DATA\040596\77439.D

Name: FER35 EXT033096

Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

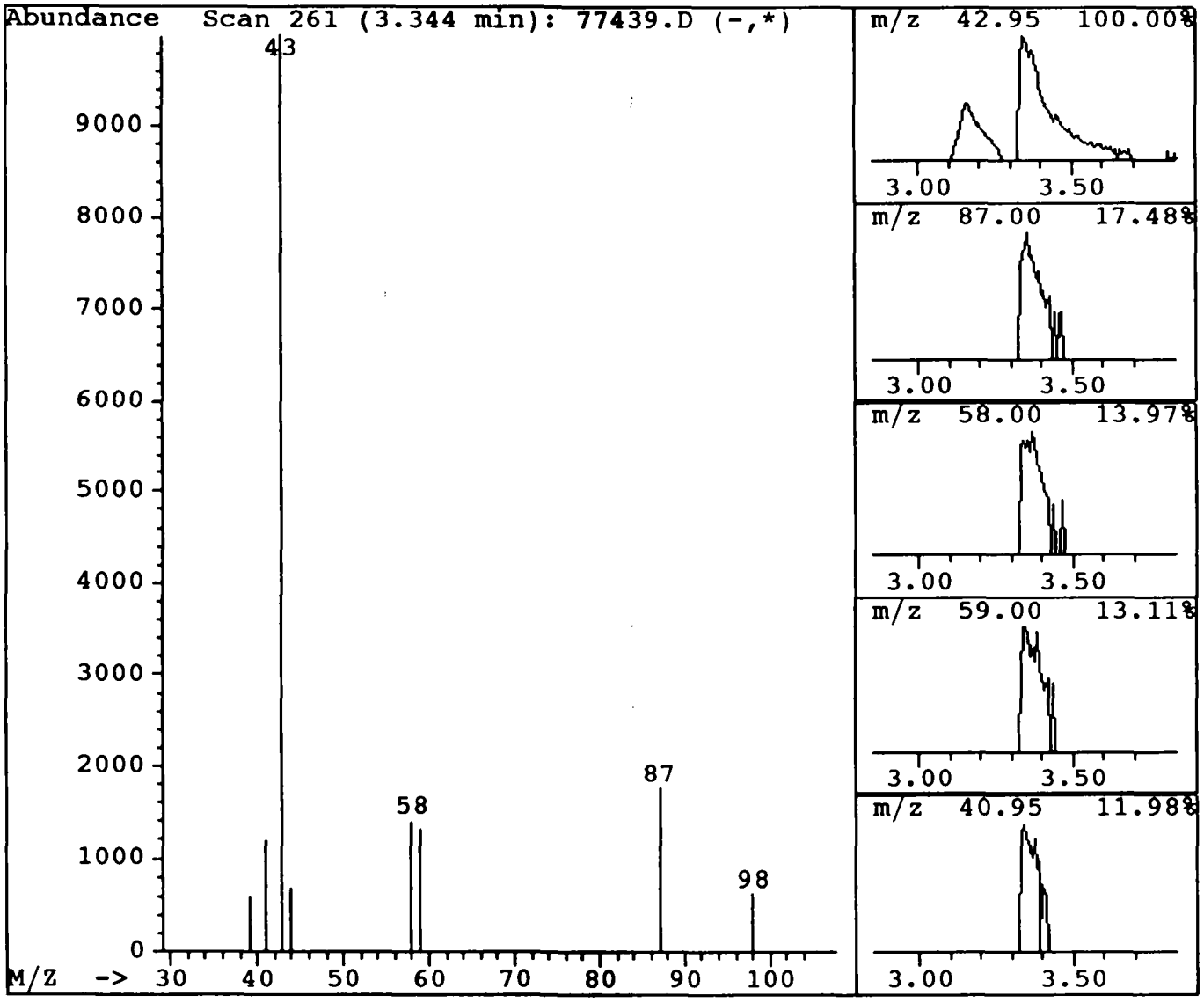
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.34	11.39 ug/mL	111915	CI30 1,4-Dichlorobenzene-	393098

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

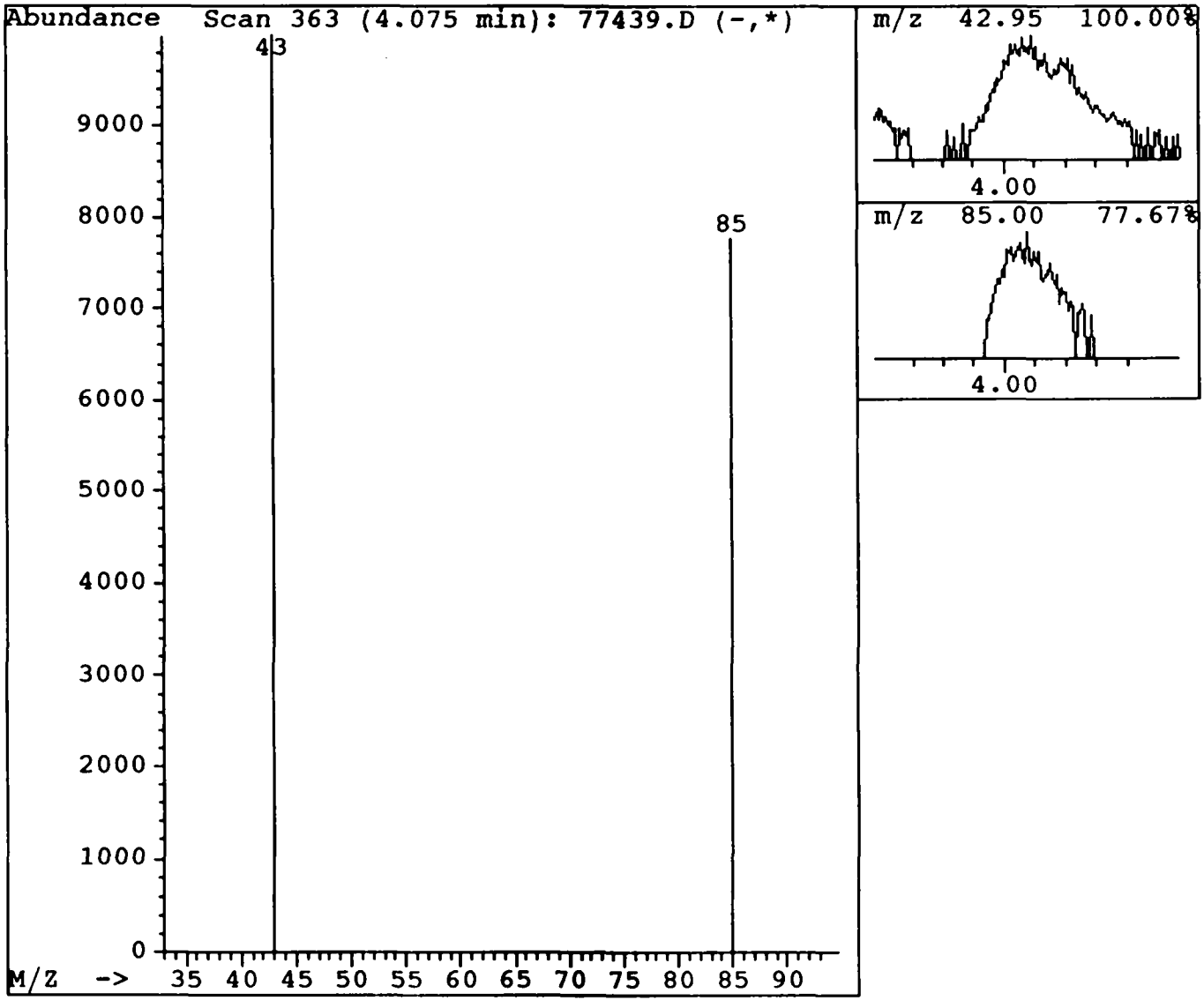
000217

Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.08	9.81 ug/mL	96425	CI30 1,4-Dichlorobenzene-	393098

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00

000218

Data File: C:\CHEMPC\DATA\040596\77439.D

Name: FER35 EXT033096

Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

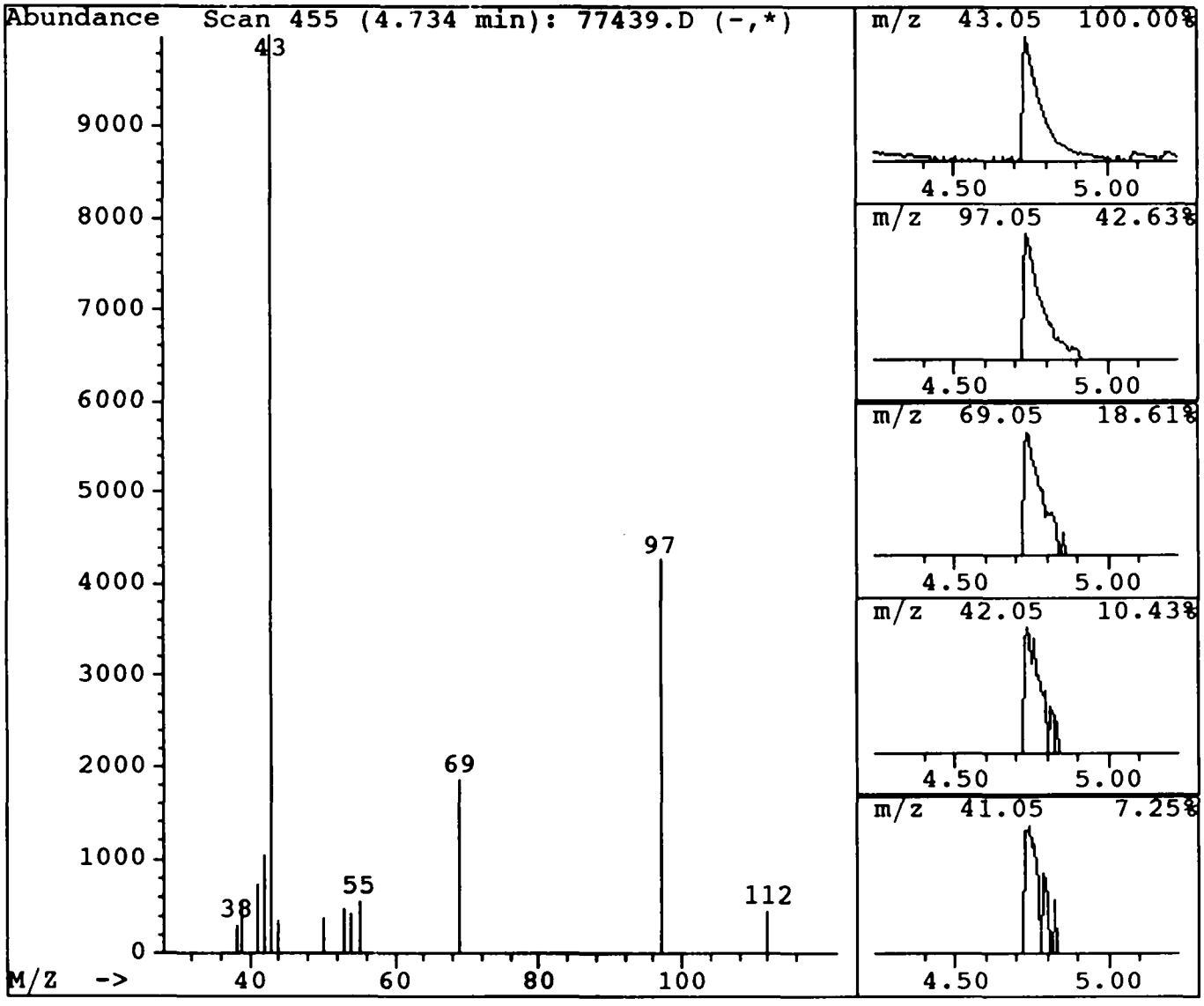
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.73	21.79 ug/mL	214128	C130 1,4-Dichlorobenzene-	393098

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

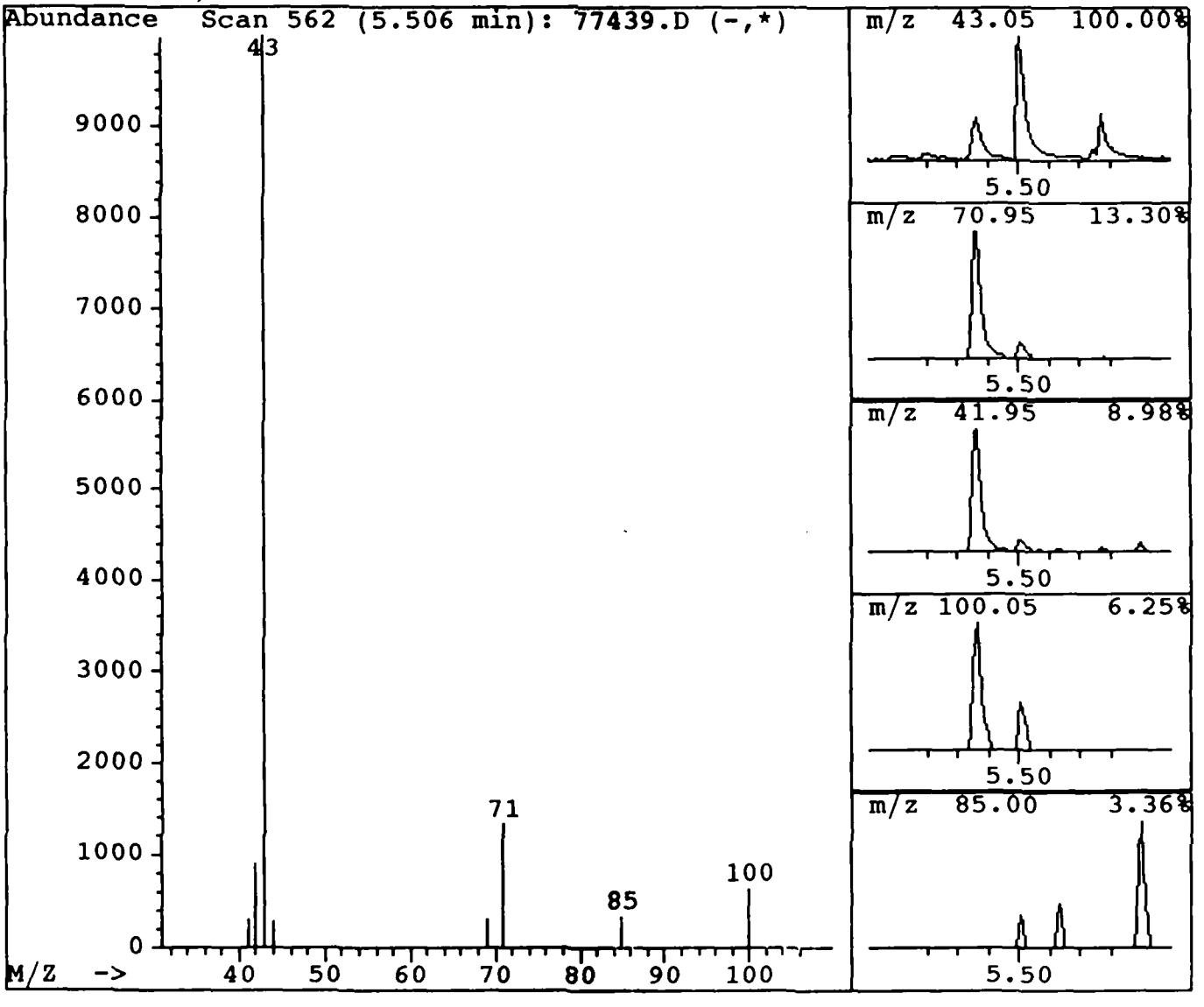
Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

000219

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	11.21 ug/mL	110176	0130 1,4-Dichlorobenzene-	393098

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00

000220

Data File: C:\CHEMPC\DATA\040596\77439.D

Name: FER35 EXT033096

Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

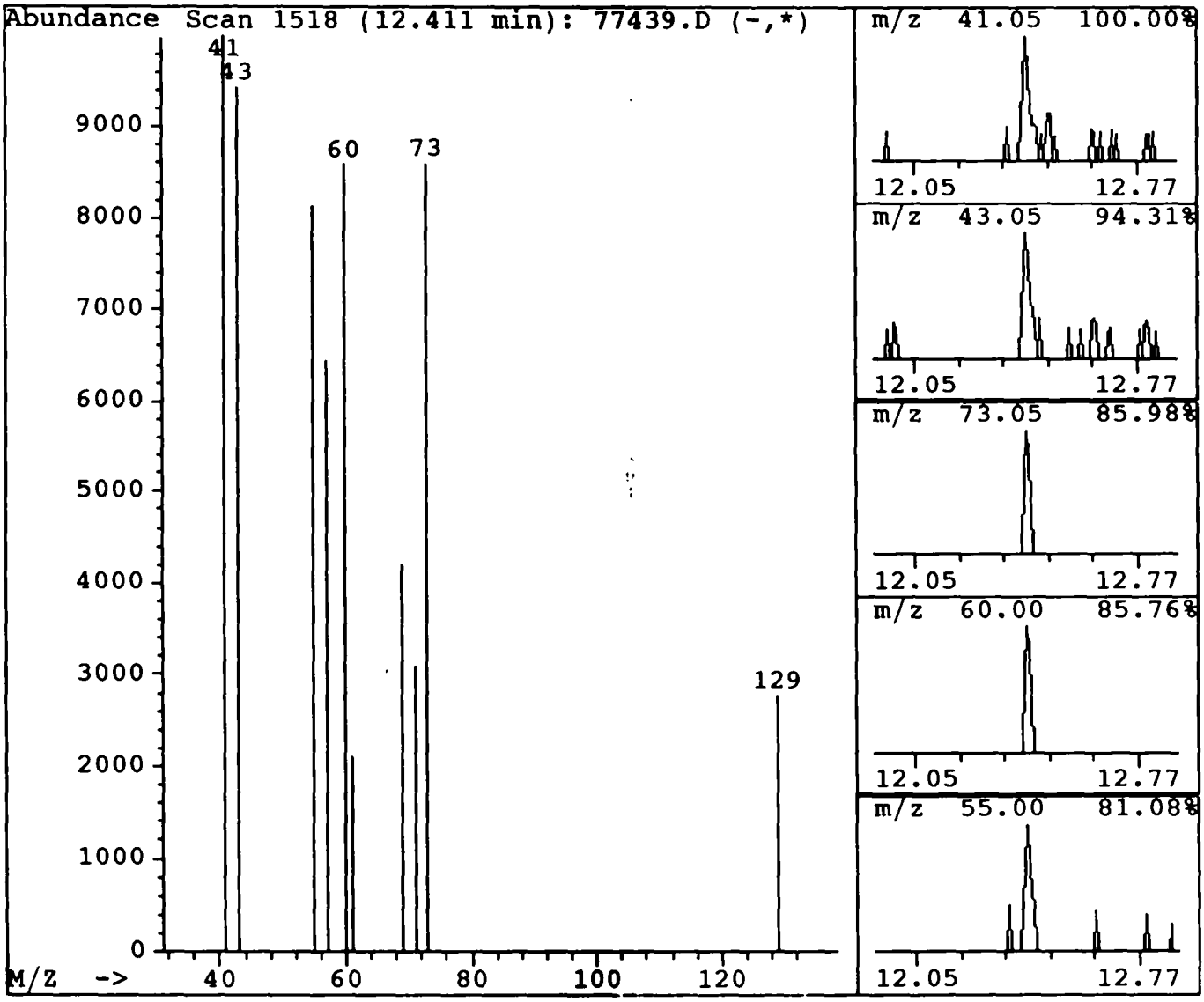
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.41	6.24 ng/mL	37599	CI60 Phenanthrene-d10	241093

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



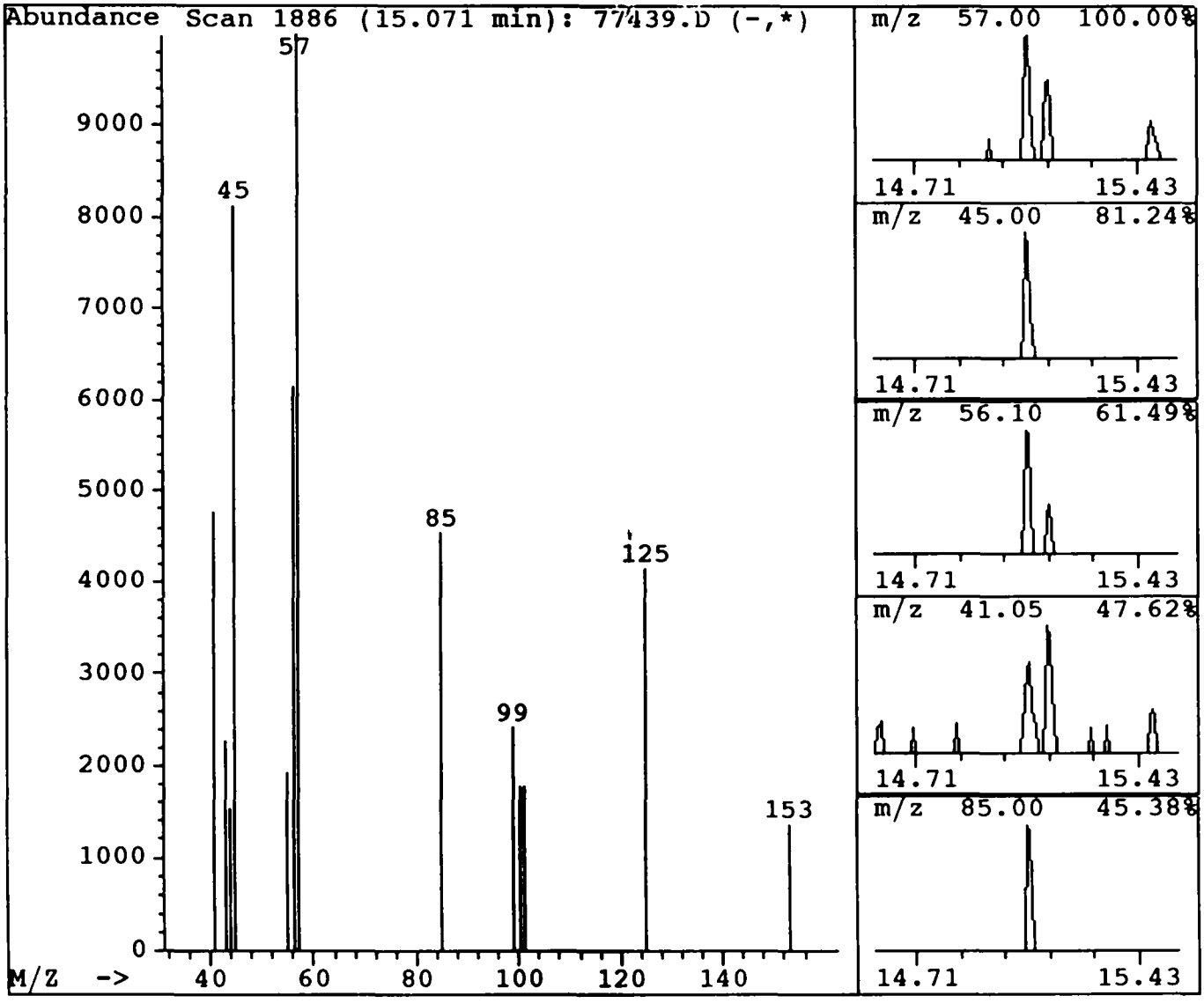
Tentatively Identified Compound (LSC) **000221**

Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	7.50 ug/mL	30275	CI70 Chrysene-d12	161431

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



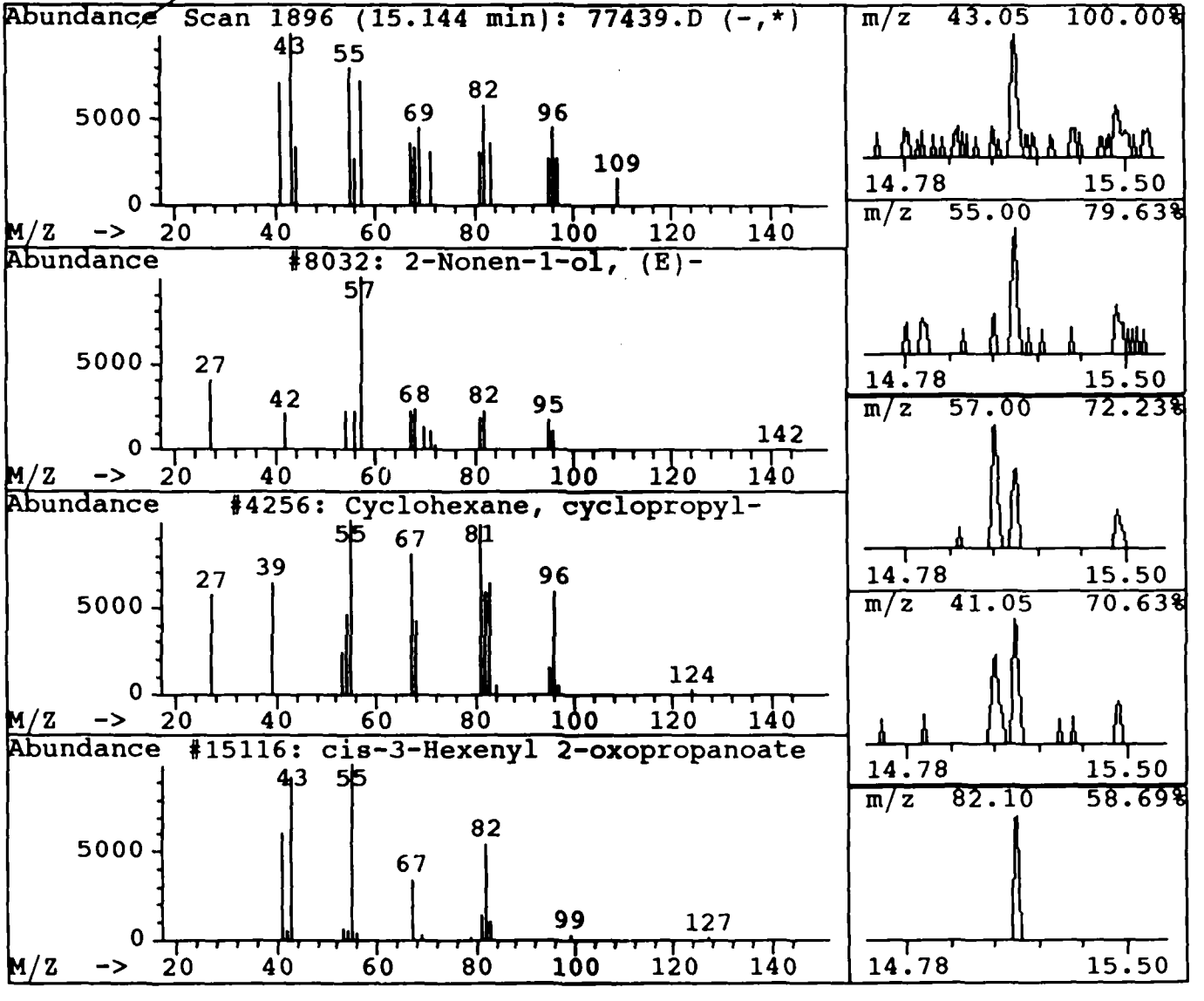
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	10.28 ug/mL	41473	CI70 Chrysene-d12	161431

Hit# of 4	Tentative ID	Ref#	CAS#	Qual
1	2-Nonen-1-ol, (E)-	8032	031502-14-4	33
2	Cyclohexane, cyclopropyl-	4256	032669-86-6	23
3	cis-3-Hexenyl 2-oxopropanoate	15116	000000-00-0	8
4	1,6-Heptadiene, 3-methyl-	2318	050871-05-1	8



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00

Data File: C:\CHEMPC\DATA\040596\77439.D

000223

Name: FER35 EXT033096

Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

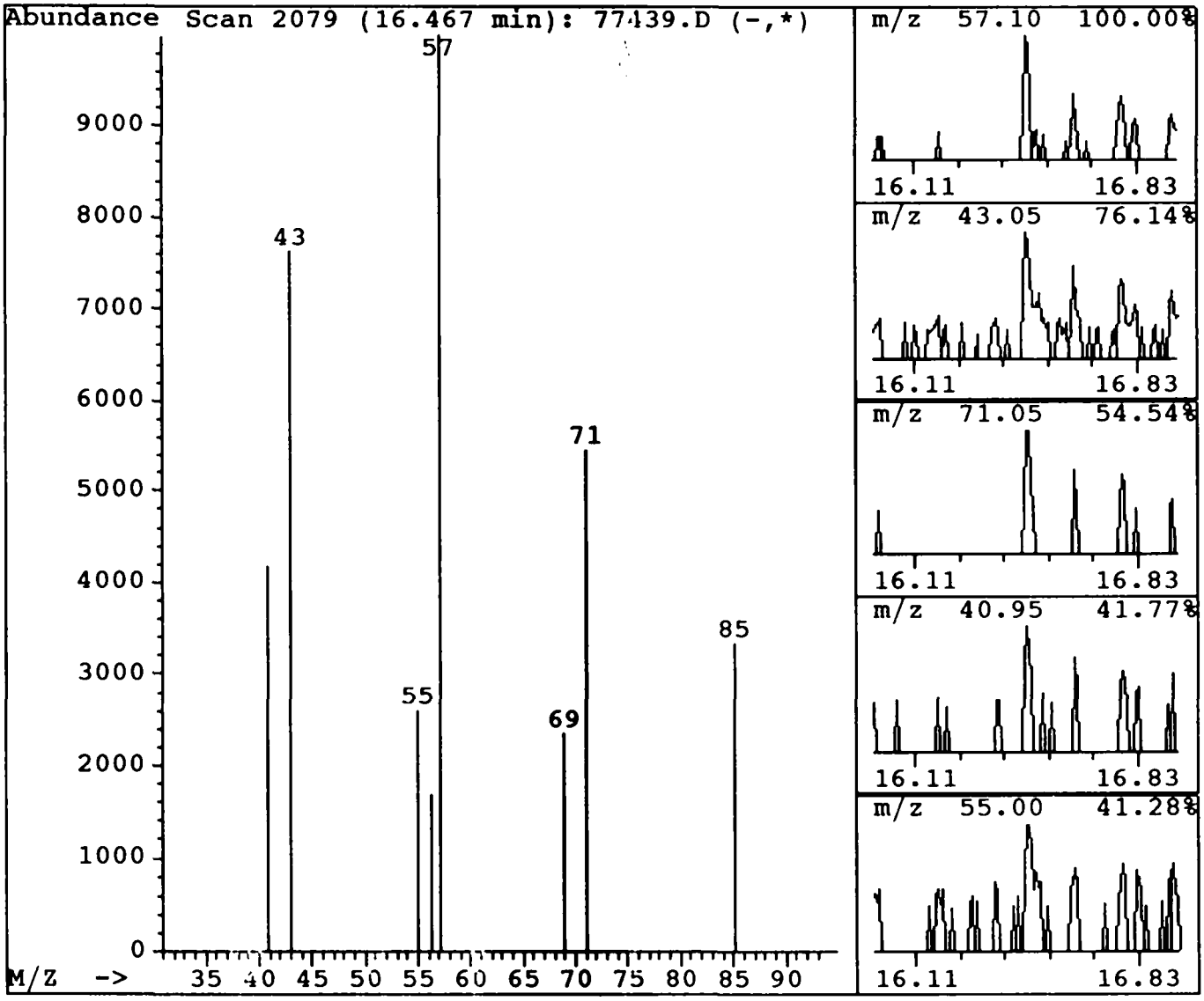
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.47	7.43 ug/mL	29987	CI70 Chrysene-d12	161431

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

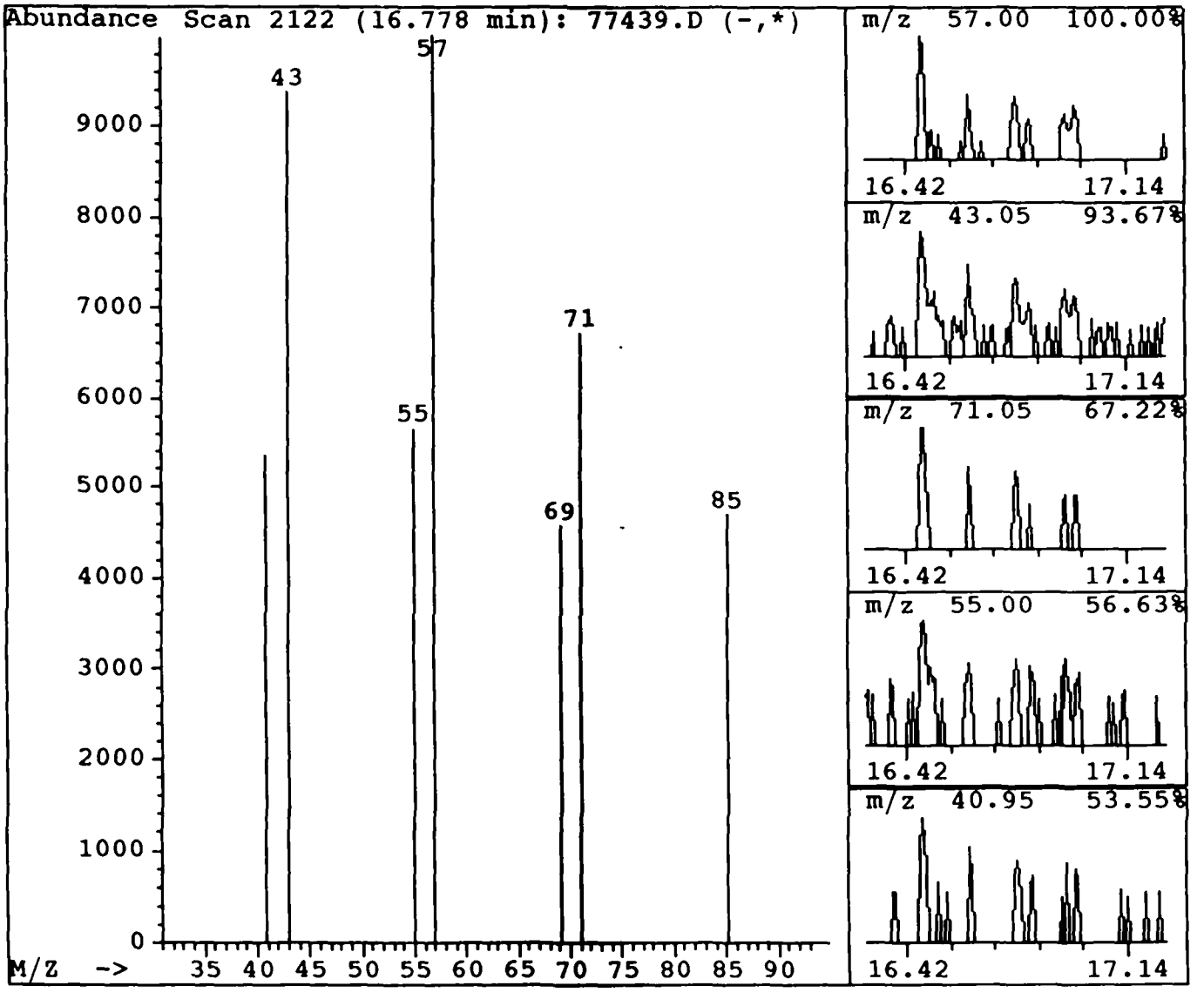
000224

Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.78	6.53 ug/mL	20617	CI75 Perylene-d12	126310

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

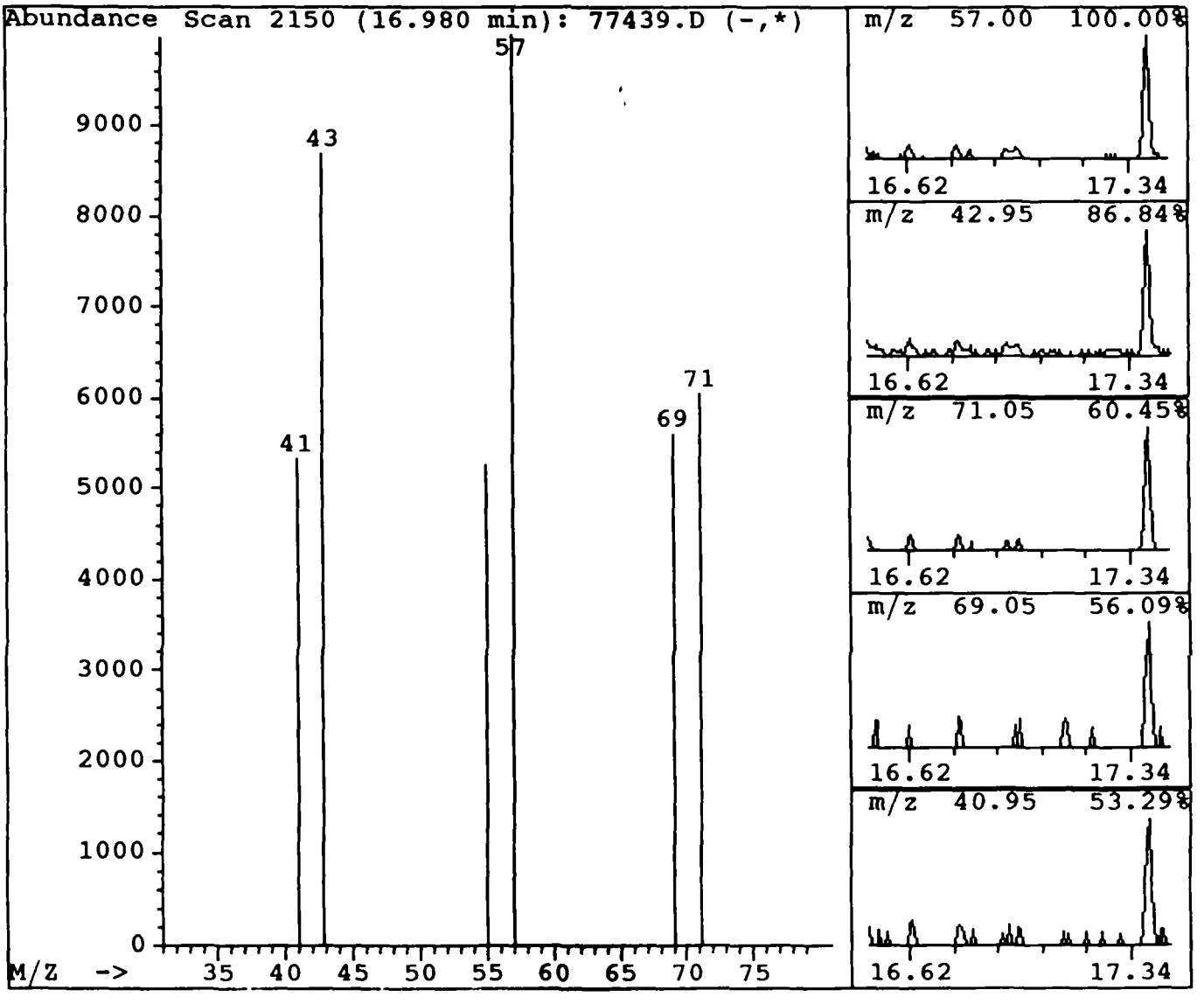
Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

000225

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.98	6.03 ug/mL	19046	CI75 Perylene-d12	126310

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00

Data File: C:\CHEMPC\DATA\040596\77439.D

000226

Name: FER35 EXT033096

Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

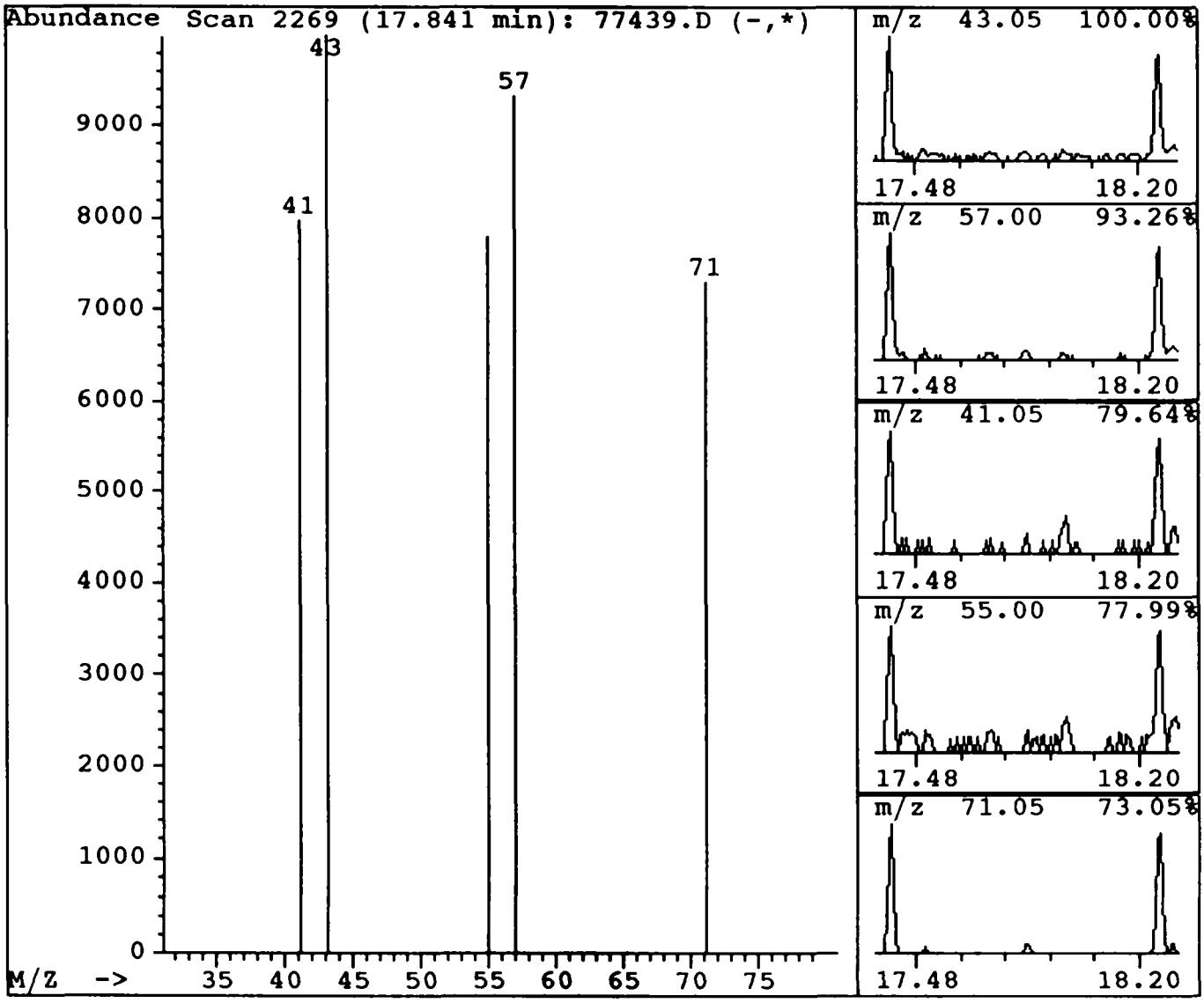
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.84	4.36 ug/mL	13763	CI75 Perylene-d12	126310

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

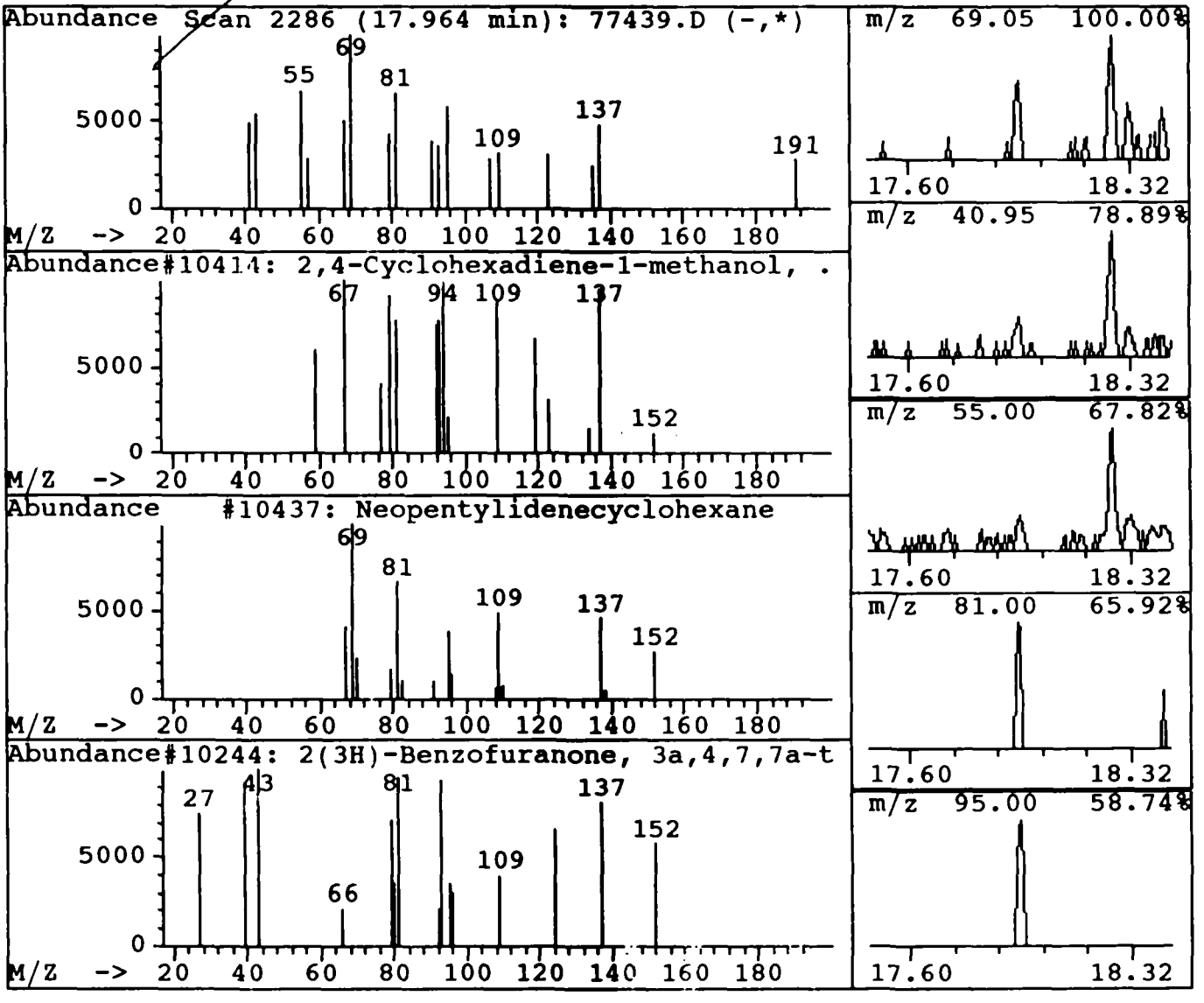
000227

Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.96	8.98 ug/mL	28358	CI75 Perylene-d12	126310

Hit# of 8	Tentative ID	Ref#	CAS#	Qual
1	2,4-Cyclohexadiene-1-methanol, .alp	10414	005208-31-1	35
2	Neopentylidenecyclohexane	10437	039546-80-0	28
3	2(3H)-Benzofuranone, 3a,4,7,7a-tetr	10244	078592-89-9	10
4	7-Heptadecyne, 17-chloro-	37795	056554-75-7	10
5	Cyclohexanol, 4-ethyl-4-methyl-3-(1	18958	055869-52-8	9



Tentatively Identified Compound (LSC)

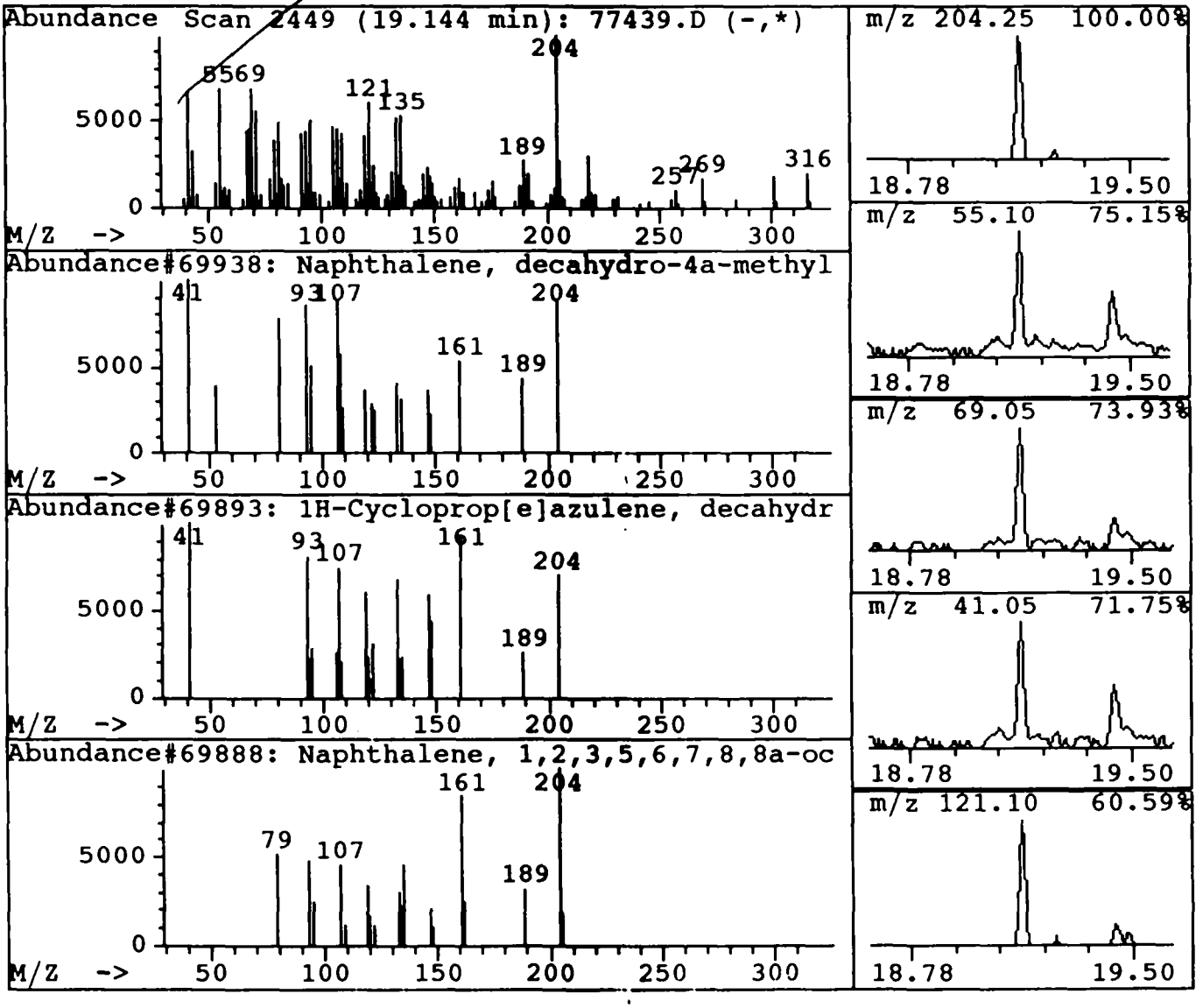
000228

Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.14	199.51 ug/mL	629991	CI75 Perylene-d12	126310

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, decahydro-4a-methyl-1-	69938	017066-67-0	50
2	1H-Cycloprop[e]azulene, decahydro-1	69893	025246-27-9	47
3	Naphthalene, 1,2,3,5,6,7,8,8a-octah	69888	004630-07-3	45
4	1H-3a,7-Methanoazulene, octahydro-1	23947	000508-55-4	43
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	69953	000489-40-7	43



Tentatively Identified Compound (LSC)

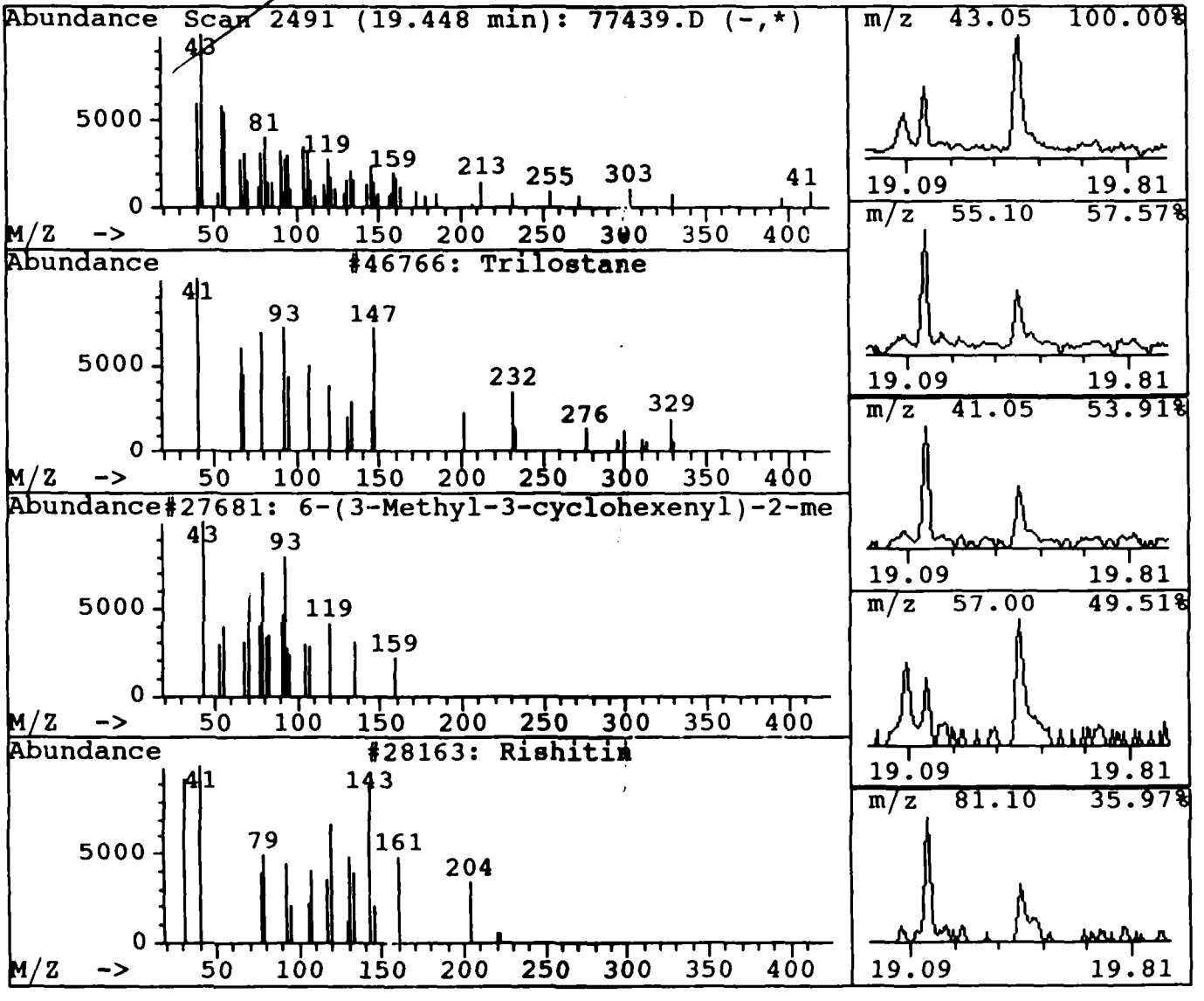
000229

Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.45	167.55 ug/mL	529074	CI75 Perylene-d12	126310

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Trilostane	46766	013647-35-3	25
2	6-(3-Methyl-3-cyclohexenyl)-2-methy	27681	018681-09-9	16
3	Rishitin	28163	018178-54-6	12
4	Benzofuran, 7-(2,4-dinitrophenoxy)-	52880	062059-48-7	10
5	2H-Pyran, 2-(7-heptadecynyloxy)tetr	47754	056599-50-9	10



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00

000230

Data File: C:\CHEMPC\DATA\040596\77439.D

Name: FER35 EXT033096

Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

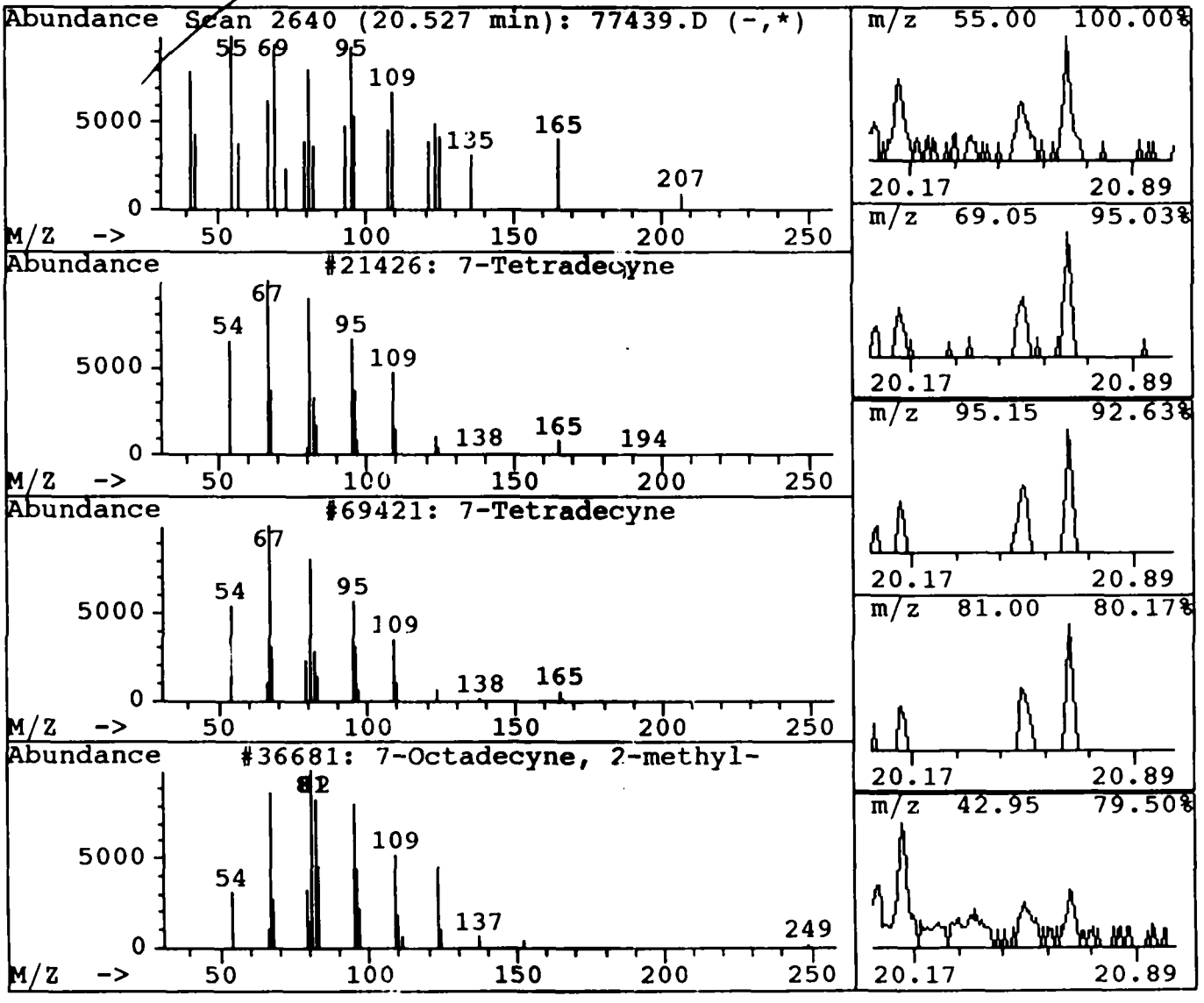
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.53	18.43 ug/mL	58199	C.75 Perylene-d12	126310

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Tetradecyne	21426	035216-11-6	38
2	7-Tetradecyne	69421	035216-11-6	38
3	7-Octadecyne, 2-methyl-	36681	035354-38-2	37
4	3-Cyclohexene-1-carboxaldehyde, 1,3	66952	040702-26-9	27
5	(R)-(-)-14-Methyl-8-hexadecyn-1-ol	34407	064566-18-3	27



Tentatively Identified Compound (LSC)

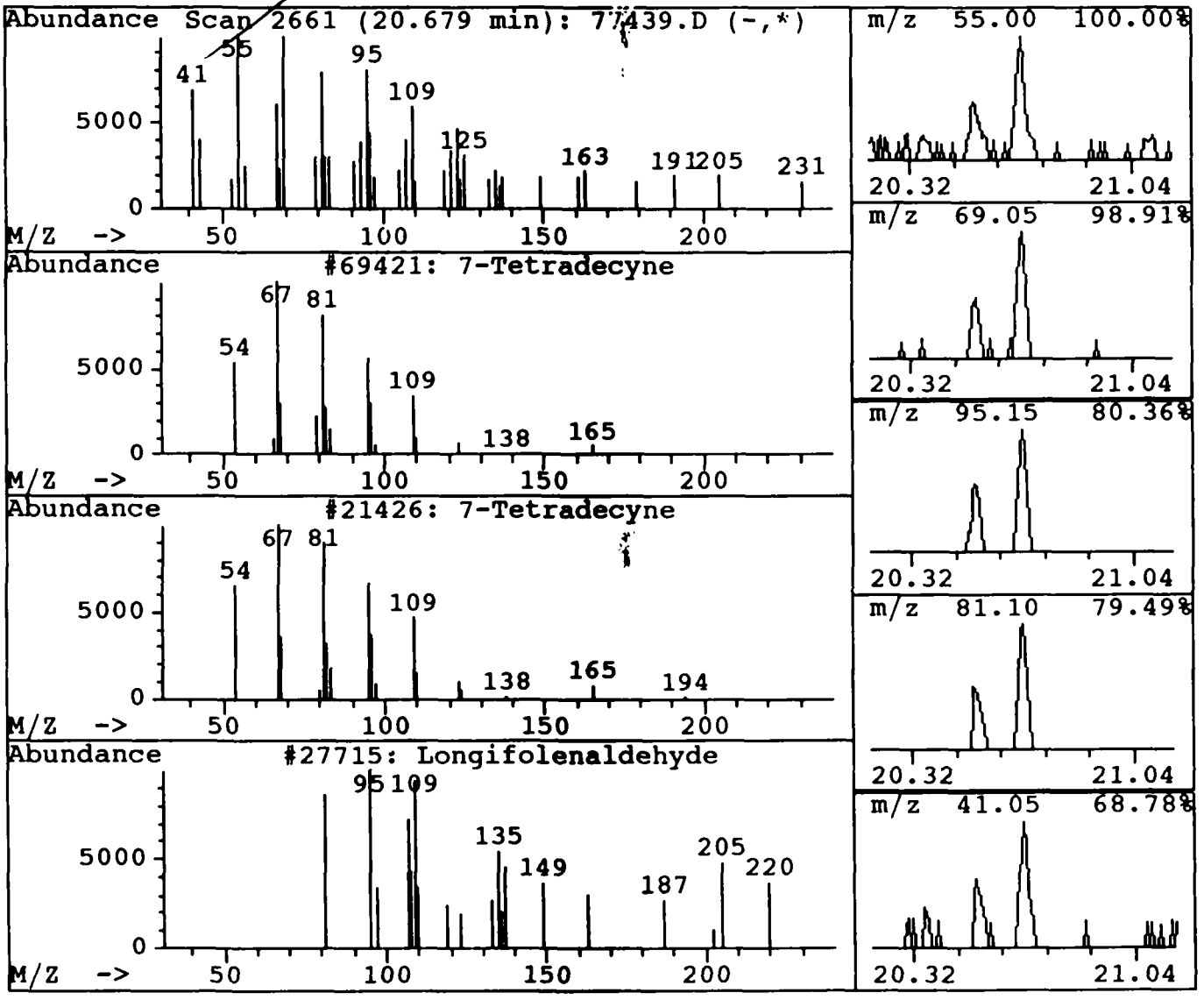
000231

Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*1542?.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.68	79.99 ug/mL	252594	C175 Perylene-d12	126310

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7-Tetradecyne	69421	035216-11-6	43
2	7-Tetradecyne	21426	035216-11-6	43
3	Longifolenaldehyde	27715	019890-84-7	43
4	7-Octadecyne, 2-methyl-	36681	035354-38-2	38
5	2-Dodecen-1-yl(-)succinic anhydride	36989	019780-11-1	38



Tentatively Identified Compound (LSC)

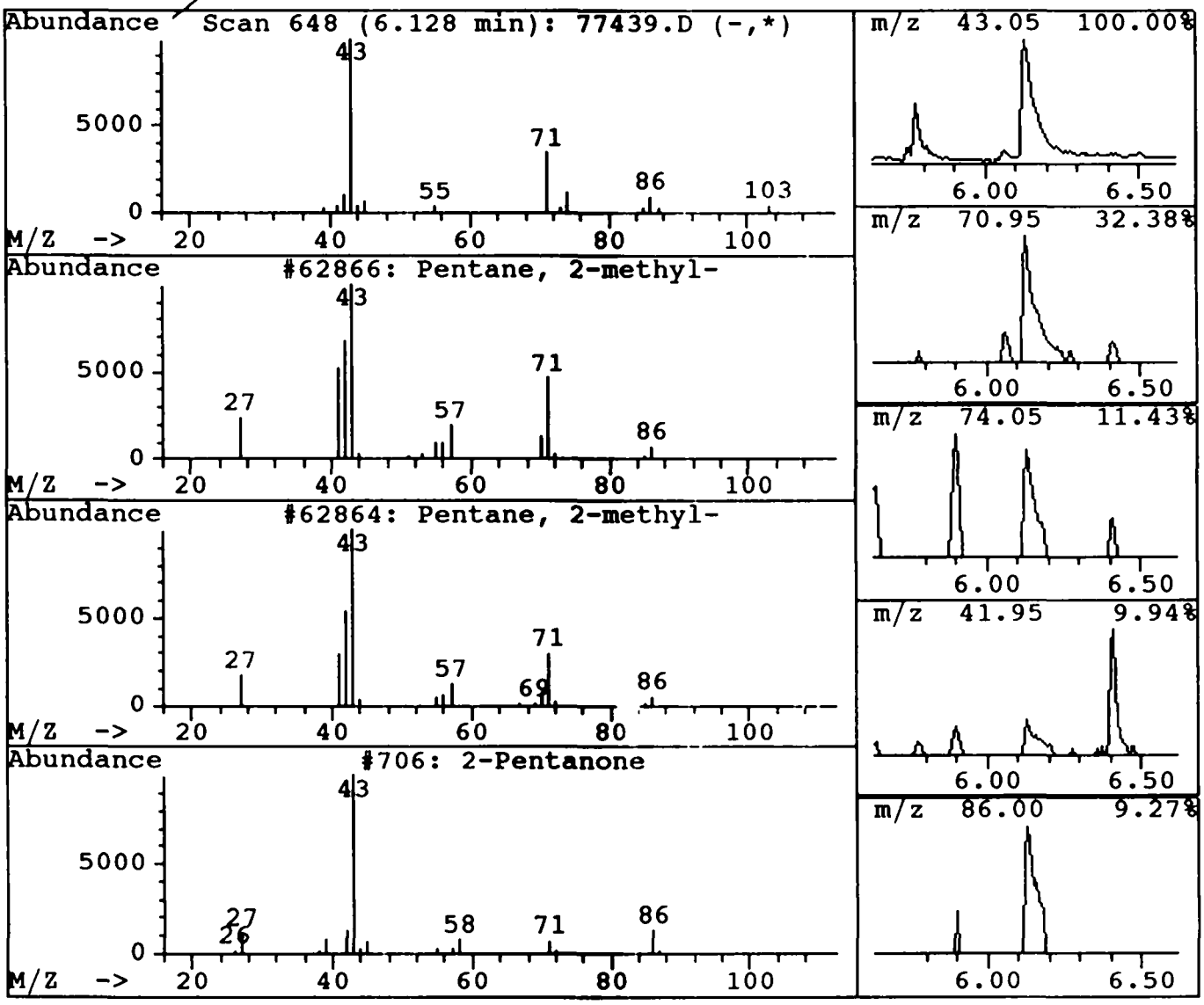
000232

Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS51
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.13	18.85 ug/mL	185236	CI30 1,4-Dichlorobenzene-	393098

Hit# of 3	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2-methyl-	62866	000107-83-5	38
2	Pentane, 2-methyl-	62864	000107-83-5	38
3	2-Pentanone	706	000107-87-9	16



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00

Data File: C:\CHEMPC\DATA\040596\77439.D

000233

Name: FER35 EXT033096

Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

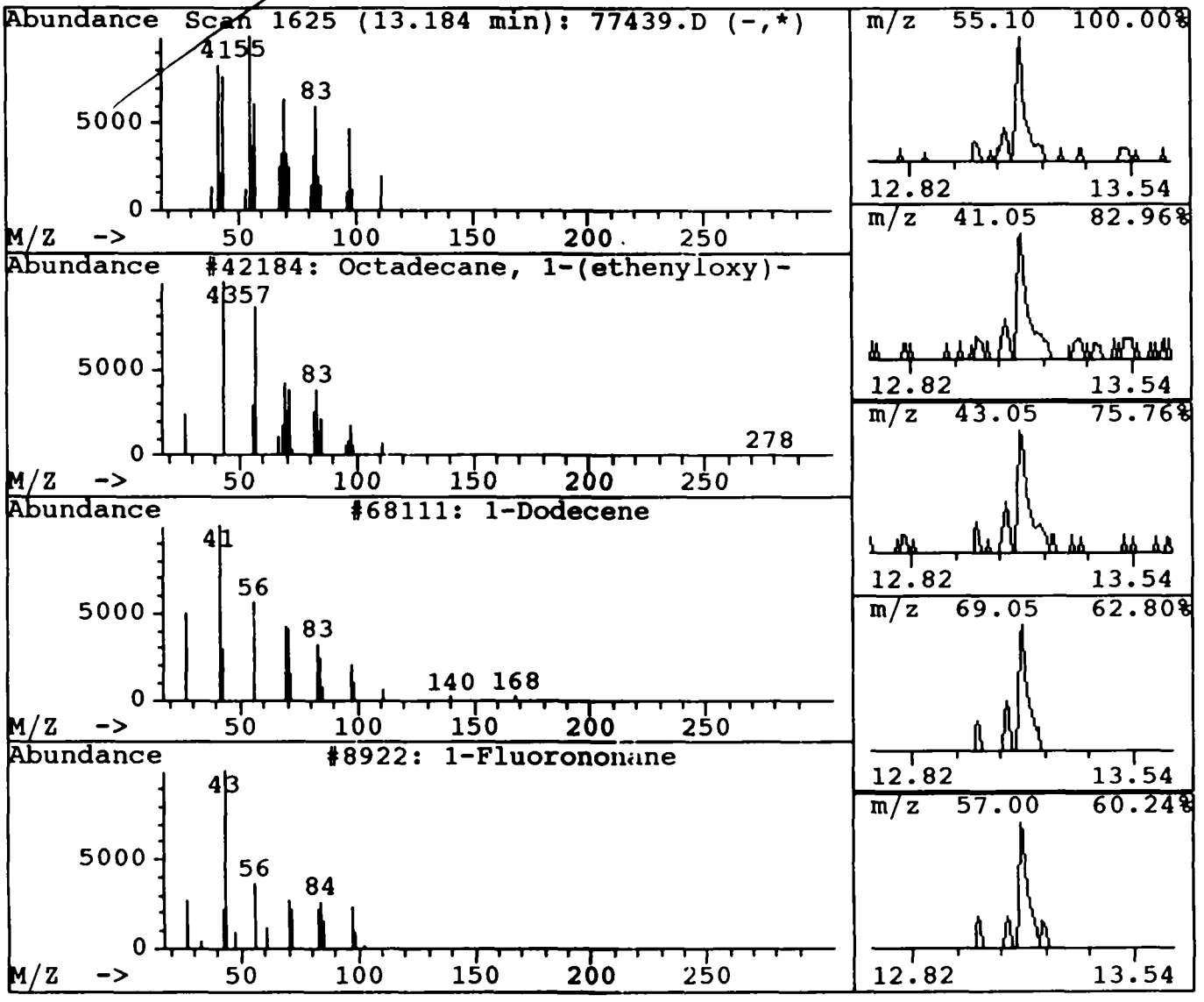
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.18	22.15 ug/mL	133511	CI60 Phenanthrene-d10	241093

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octadecane, 1-(ethenyloxy)-	42184	000930-02-9	37
2	1-Dodecene	68111	000112-41-4	35
3	1-Fluorononane	8922	000463-18-3	27
4	Octadecanal	71945	000638-66-4	25
5	5-Methyl-1-heptanol	5563	007212-53-5	25



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00

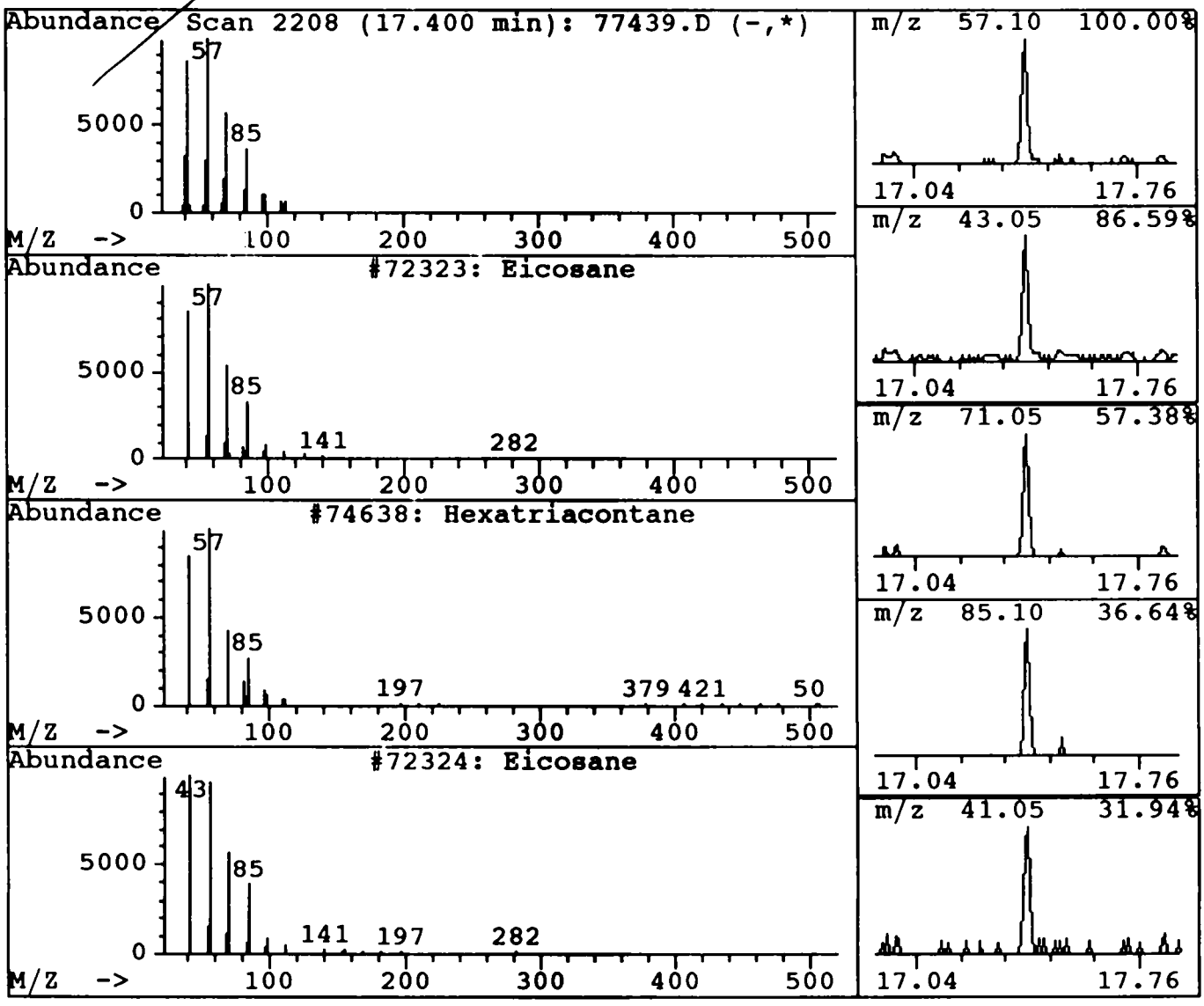
000234

Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.40	43.87 ug/mL	138538	CI75 Perylene-d12	126310

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Eicosane	72323	000112-95-8	86
2	Hexatriacontane	74638	000630-06-8	86
3	Eicosane	72324	000112-95-8	80
4	Hexacosane	73942	000630-01-3	80
5	Tetradecane	69661	000629-59-4	80



Tentatively Identified Compound (LSC)

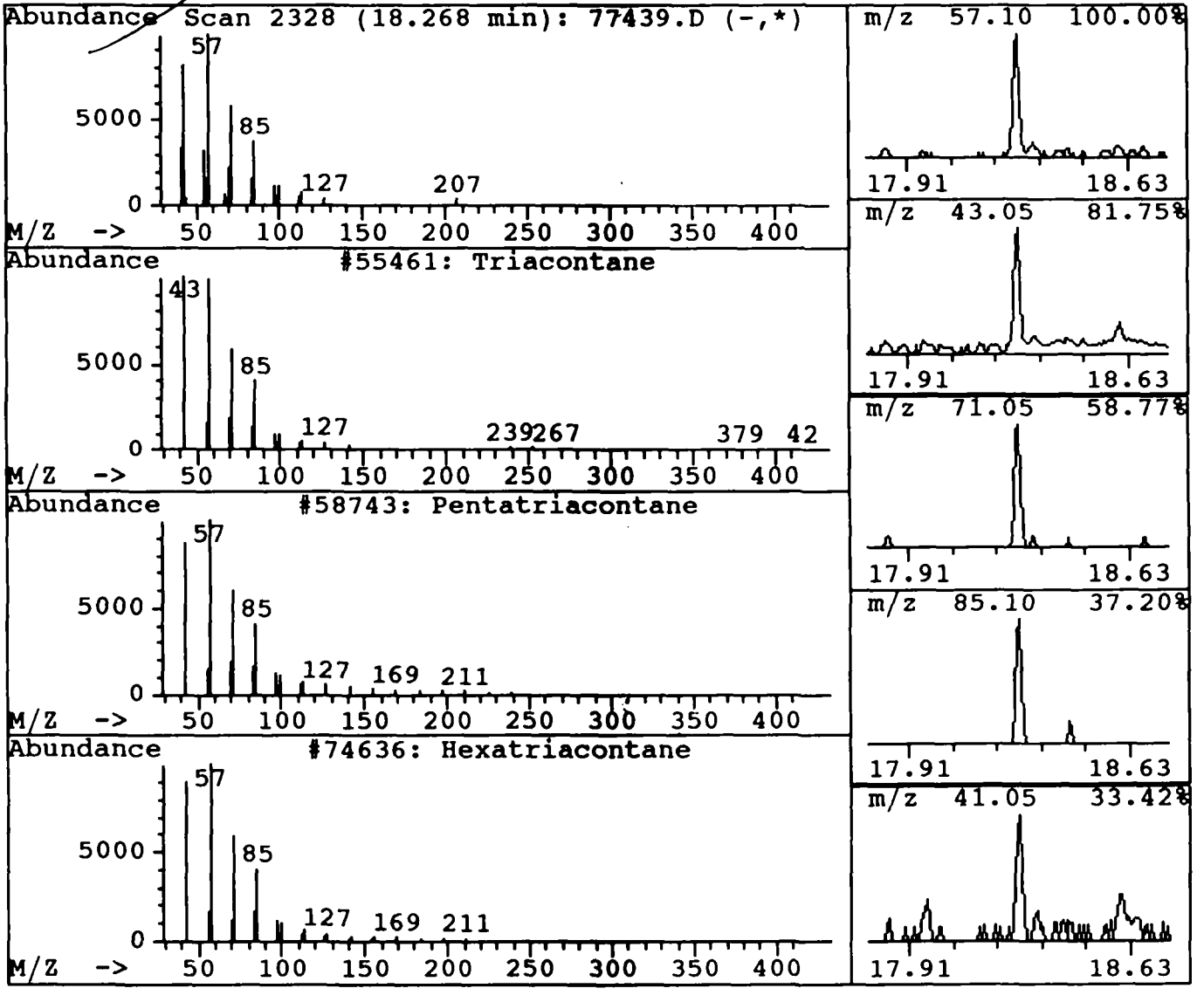
000235

Operator ID: AK Date Acquired: 5 Apr 96 16:00
Data File: C:\CHEMPC\DATA\040596\77439.D
Name: FER35 EXT033096
Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.27	125.68 ug/mL	396855	C175 Perylene-d12	126310

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Triacontane	55461	000638-68-6	91
2	Pentatriacontane	58743	000630-07-9	91
3	Hexatriacontane	74636	000630-06-8	91
4	Dotriacontane	74490	000544-85-4	91
5	Hexatriacontane	74635	000630-06-8	91



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 16:00

Data File: C:\CHEMPC\DATA\040596\77439.D

000236

Name: FER35 EXT033096

Misc: HP6*USEPA*15427.02*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

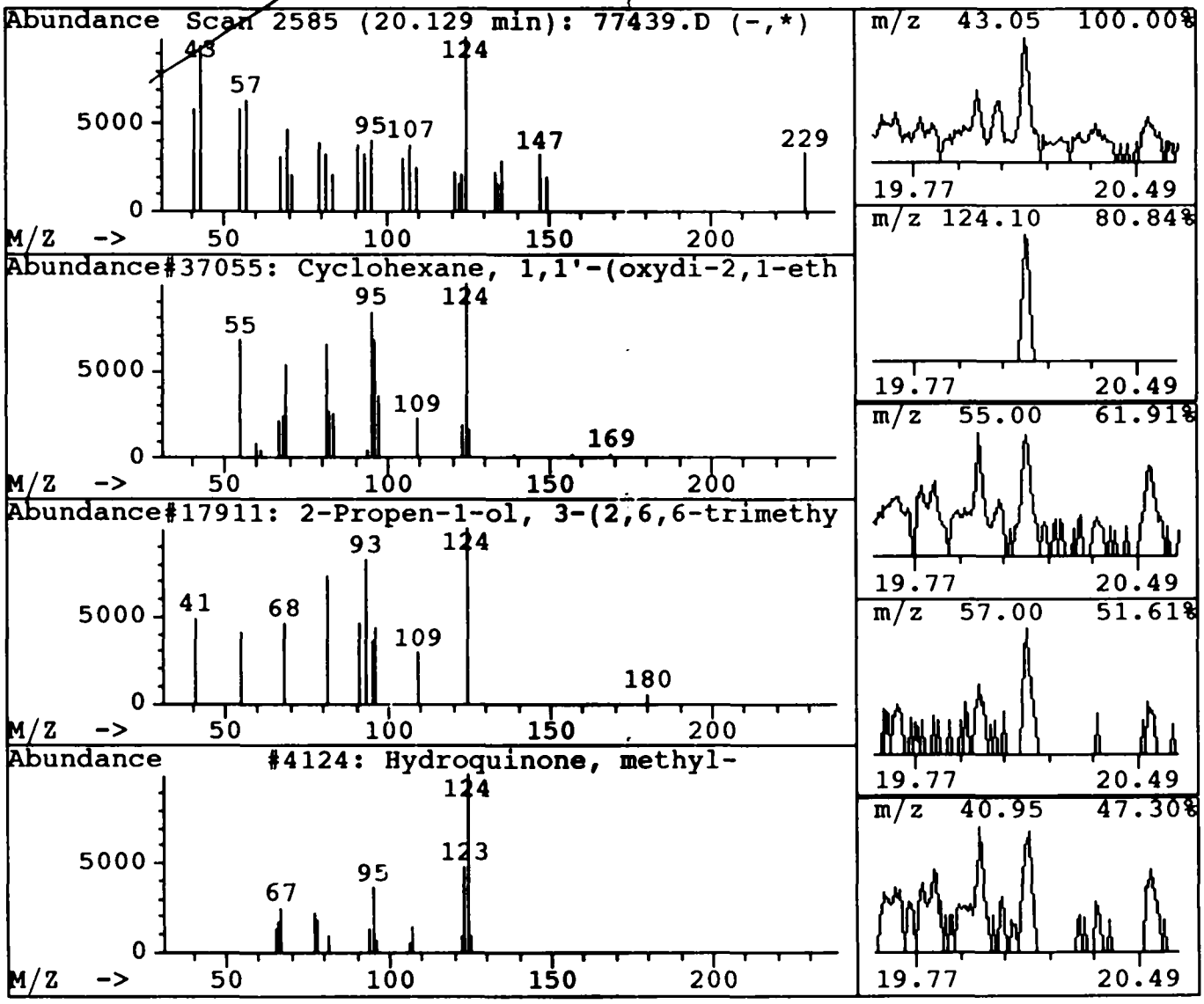
Last Calibration: Fri Apr 05 15:38:10 1996

cyclic alkane

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.13	31.50 ug/mL	99460	CI75 Perylene-d12	126310

Hit# of 8	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1'-(oxydi-2,1-ethane	37055	055044-32-1	32
2	2-Propen-1-ol, 3-(2,6,6-trimethyl-2	17911	029460-67-1	23
3	Hydroquinone, methyl-	4124	096937-50-7	17
4	4,5-Dimethyl-2-pyrimidone	4104	034939-17-8	16
5	4H-Pyran-4-one, 2,6-dimethyl-	4129	001004-36-0	16



1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000239 EPA SAMPLE NO.

FER39

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542703

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77497

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/11/96

GPC Cleanup: (Y/N) Y pH: 7.6

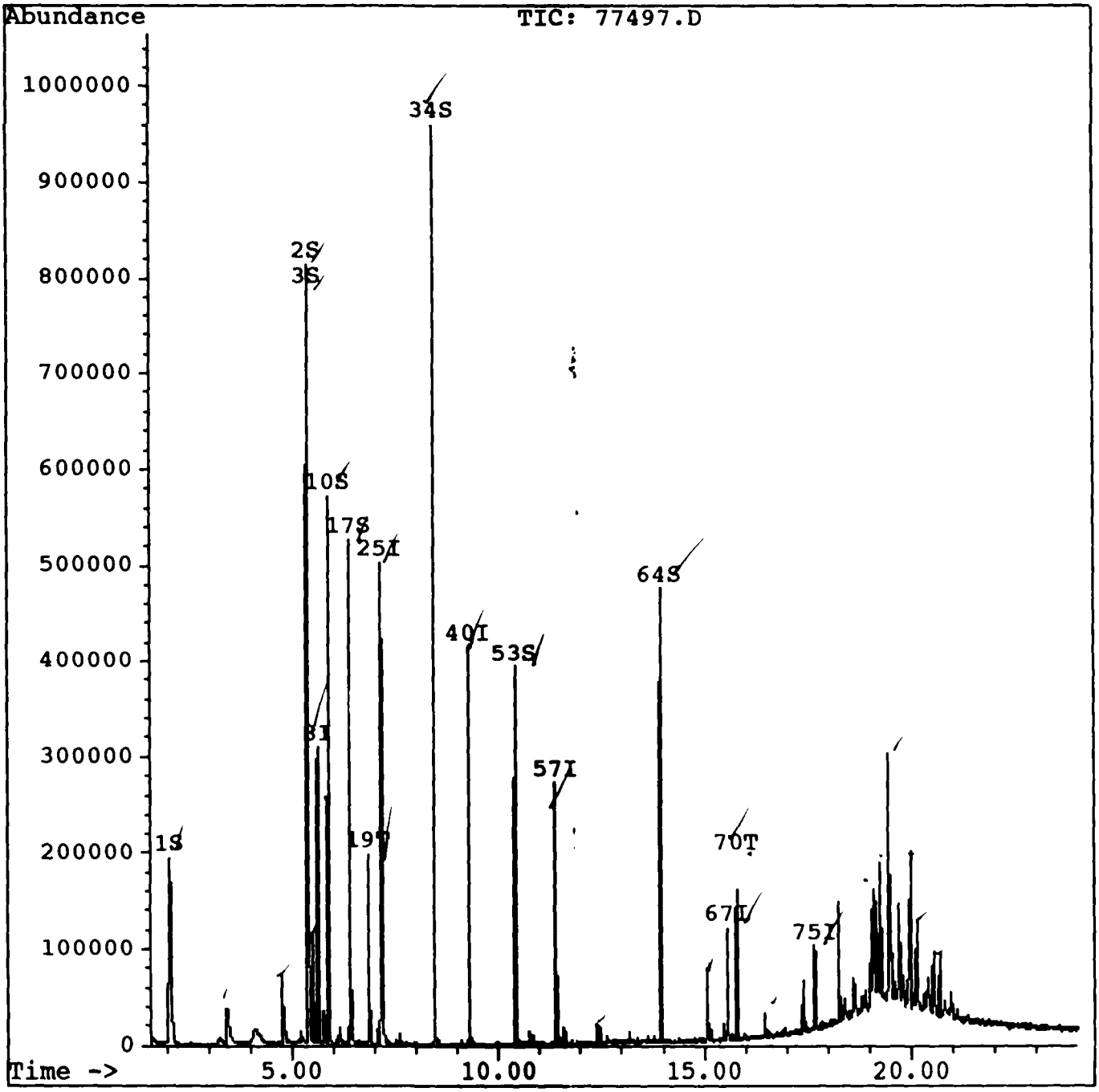
Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.42	340	ABJ
2.		Aldol condensation	4.12	260	AJ
3.		Aldol condensation	4.75	380	ABJ
4.		Aldol condensation	5.52	240	ABJ
5.		Aldol condensation	5.77	100	AJ
6.		Unknown	11.88	95	J
7.		Unknown	13.77	93	J
8.		Unknown	15.13	180	J
9.		Unknown	16.47	490	J
10.		Unknown	19.27	1700	J
11.		Unknown	19.72	1800	J
12.		Unknown	19.98	1500	J
13.		Unknown	20.13	2100	J
14.		Unknown	20.53	810	J
15.		Unknown	20.68	4600	J

QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 16:19

000241

Data File: C:\CHEMPC\DATA\041096\77497.D

Name: FER39 EXT033096

Misc: HP6*USEPA*1542[illegible].03*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Quantitated using Single Level Calibration

Internal Standards

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8)	CI30 1,4-Dichlorobenzene-d	5.64	152	71405	40.00	ug/mL	0.04
25)	CI40 Naphthalene-d8	7.15	136	229798	40.00	ug/mL	0.01
40)	CI50 Acenaphthene-d10	9.29	164	107398	40.00	ug/mL	0.01
57)	CI60 Phenanthrene-d10	11.40	188	125343	40.00	ug/mL	0.01
67)	CI70 Chrysene-d12	15.56	240	61516	40.00	ug/mL	0.03
75)	CI75 Perylene-d12	17.69	264	59823	40.00	ug/mL	0.03

System Monitoring Compounds

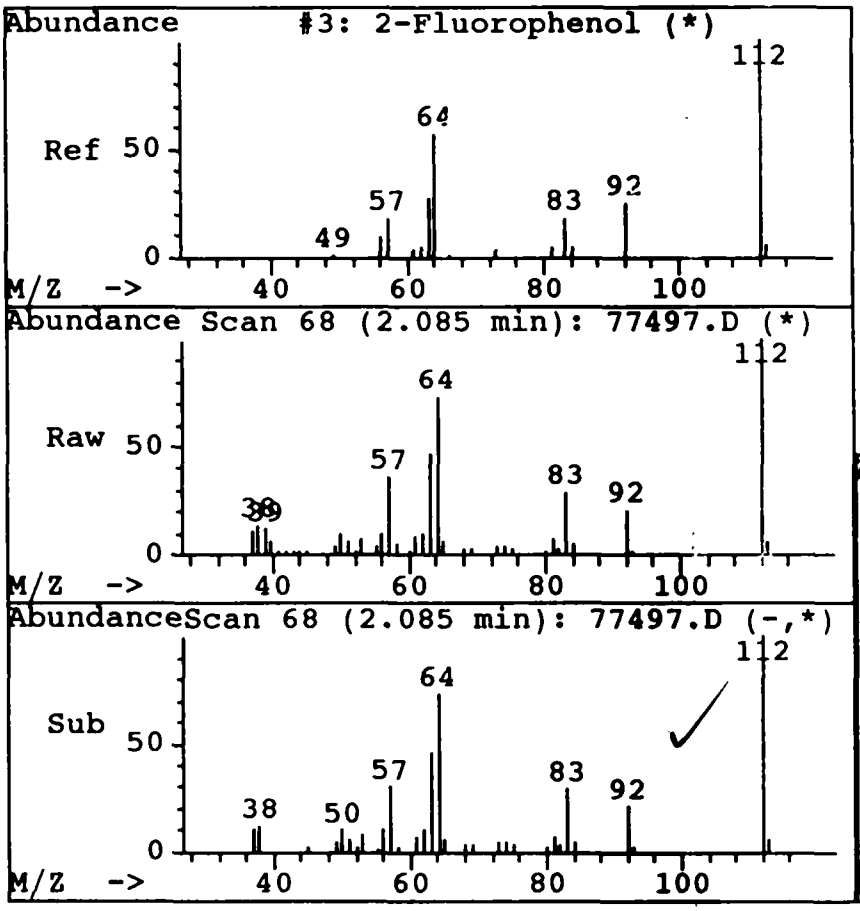
							%Recovery
1)	CS50 2-Fluorophenol	2.08	112	164757	99.38	ug/mL	66.26% m
2)	CS70 2-Chlorophenol-d4	5.38	132	245186	108.02	ug/mL	72.01%
3)	CS45 Phenol-d5	5.4[illegible]	99	267356	99.75	ug/mL	66.50%
10)	CS75 1,2-Dichlorobenzene-d	5.90	152	101877	64.26	ug/mL	64.26%
17)	CS20 Nitrobenzene-d5	6.41	82	203764	75.05	ug/mL	75.05%
34)	CS25 2-Fluorobiphenyl	8.44	172	294259	77.74	ug/mL	77.74%
53)	CS55 2,4,6-Tribromophenol	10.43	330	54228	102.74	ug/mL	68.50%
64)	CS30 Terphenyl-d14	13.95	244	167062	84.62	ug/mL	84.62%

Target Compounds

							ISTD#
19)	C415 Isophorone	6.85	82	14554	3.19	ug/mL	002#
70)	C745 bis(2-Ethylhexyl)phth	15.80	149	46152	28.36	ug/mL	005

FALSE POSITIVE

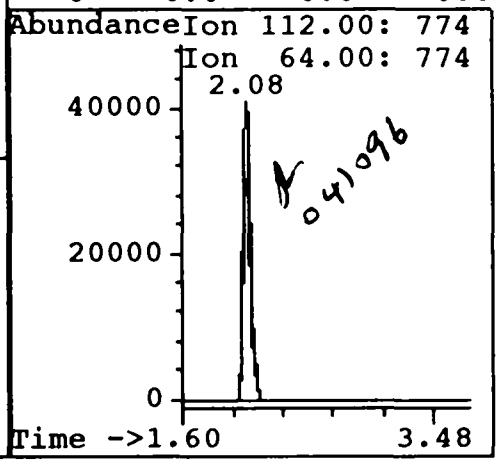
(#) = qualifier out of range

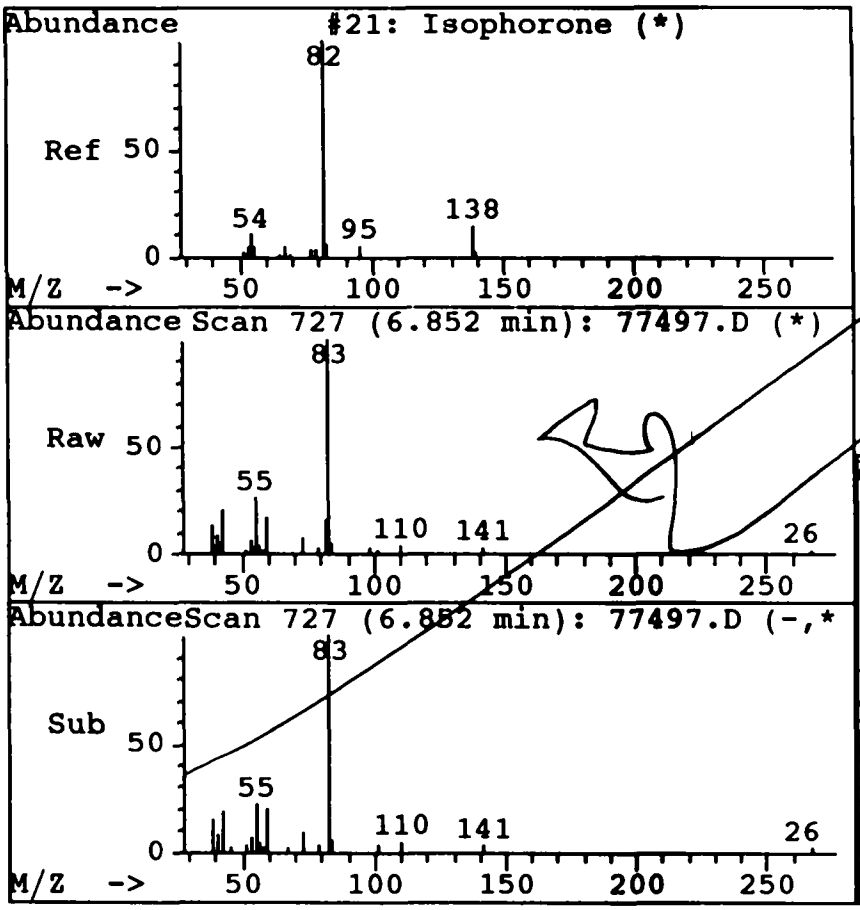


#1 Inst: HP6
CS50 2-Fluorophenol
Concen: 99.38 ug/mL m
RT: 2.08 min Scan# 68
Delta R.T. 0.40 min
Lab File: 77497.D
Acq: 10 Apr 96 16:19
FER39

Tgt Ion: 112 Area: 164757

Ion	Ratio	Lower	Upper
112	100		
64	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



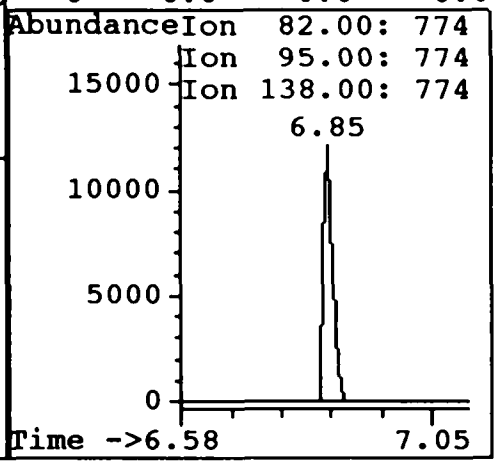


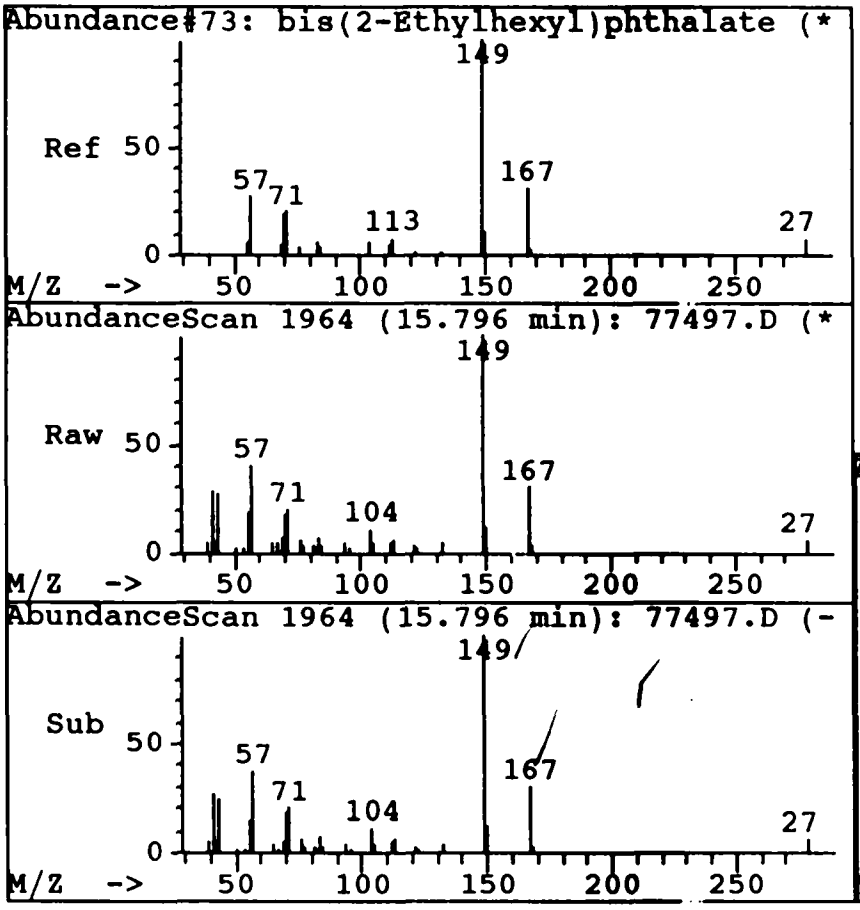
#19 Inst: HP6
C415 Isophorone
Concen: 3.19 ug/mL
RT: 6.85 min Scan# 727
Delta R.T. 0.17 min
Lab File: 77497.D
Acq: 10 Apr 96 16:19
FER39

000243

Tgt Ion: 82 Area: 14554

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	0.0	0.0	35.2
0	0.0	0.0	0.0

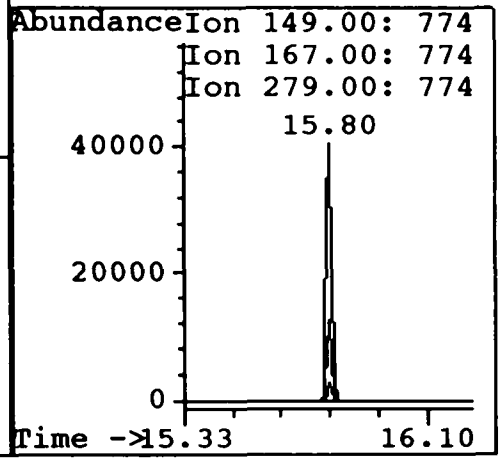




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 28.36 ug/mL
RT: 15.80 min Scan# 1964
Delta R.T. 0.02 min
Lab File: 77497.D
Acq: 10 Apr 96 16:19
FER39

Tgt Ion: 149 Area: 46152

Ion	Ratio	Lower	Upper
149	100		
167	28.1	13.5	53.5
279	5.5	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

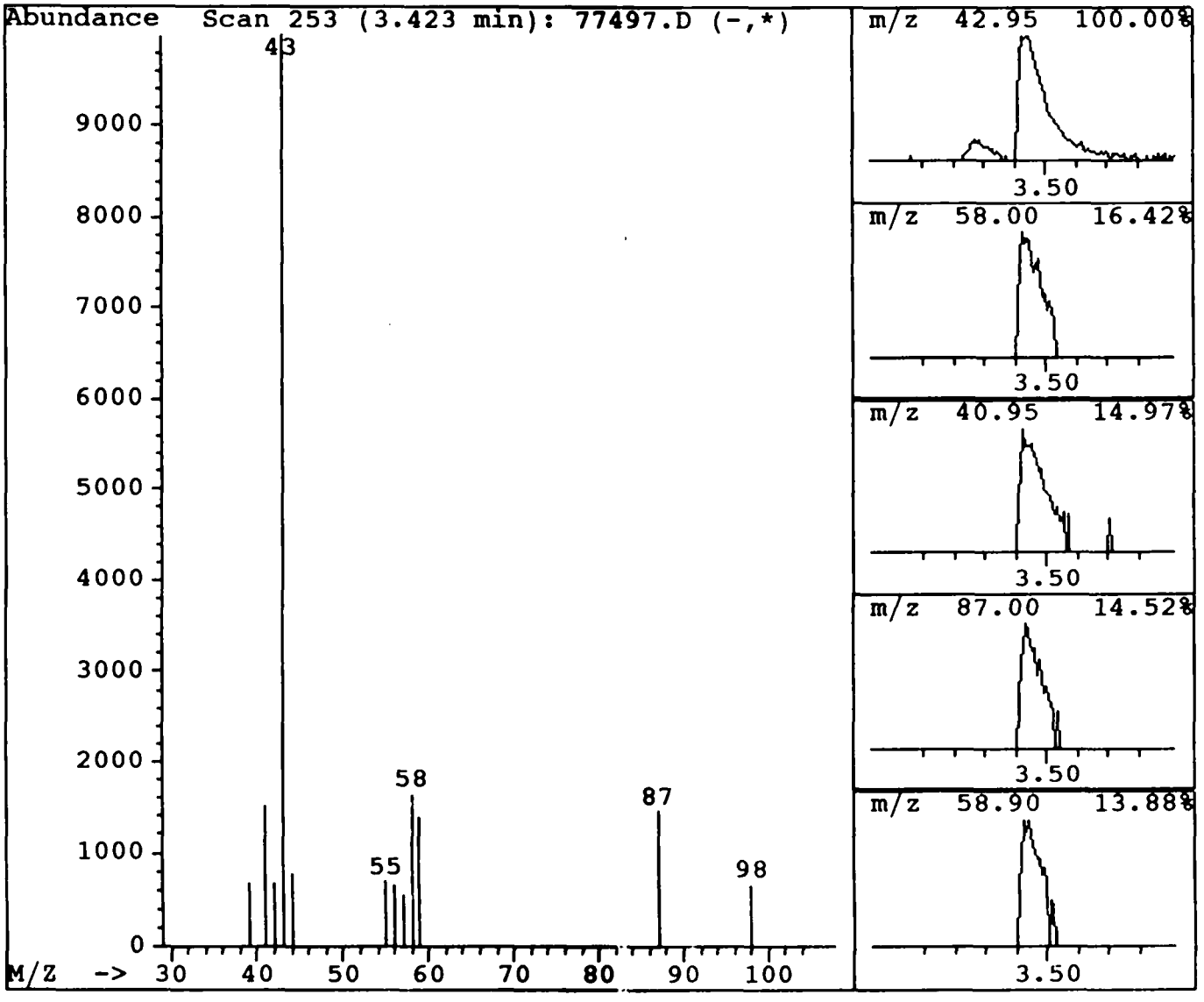
000244

Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.42	16.80 ug/mL	213506	CI30 1,4-Dichlorobenzene-	508425

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19 **000245**

Data File: C:\CHEMPC\DATA\041096\77497.D

Name: FER39 EXT033096

Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2µLL*MS517

Method: OLMO3_1.M Inst: HP6

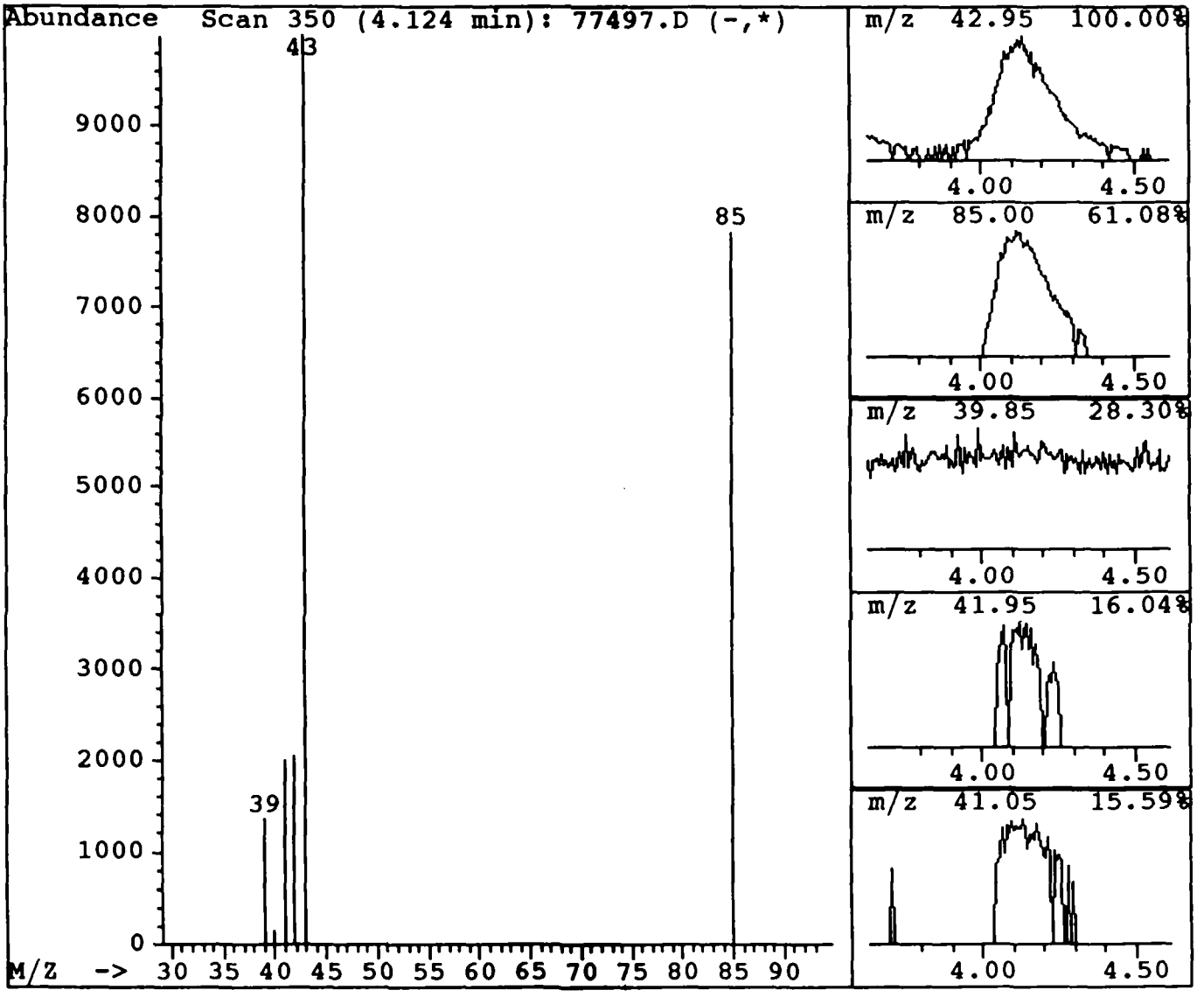
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.12	12.76 ug/mL	162179	CI30 1,4-Dichlorobenzene-	508425

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

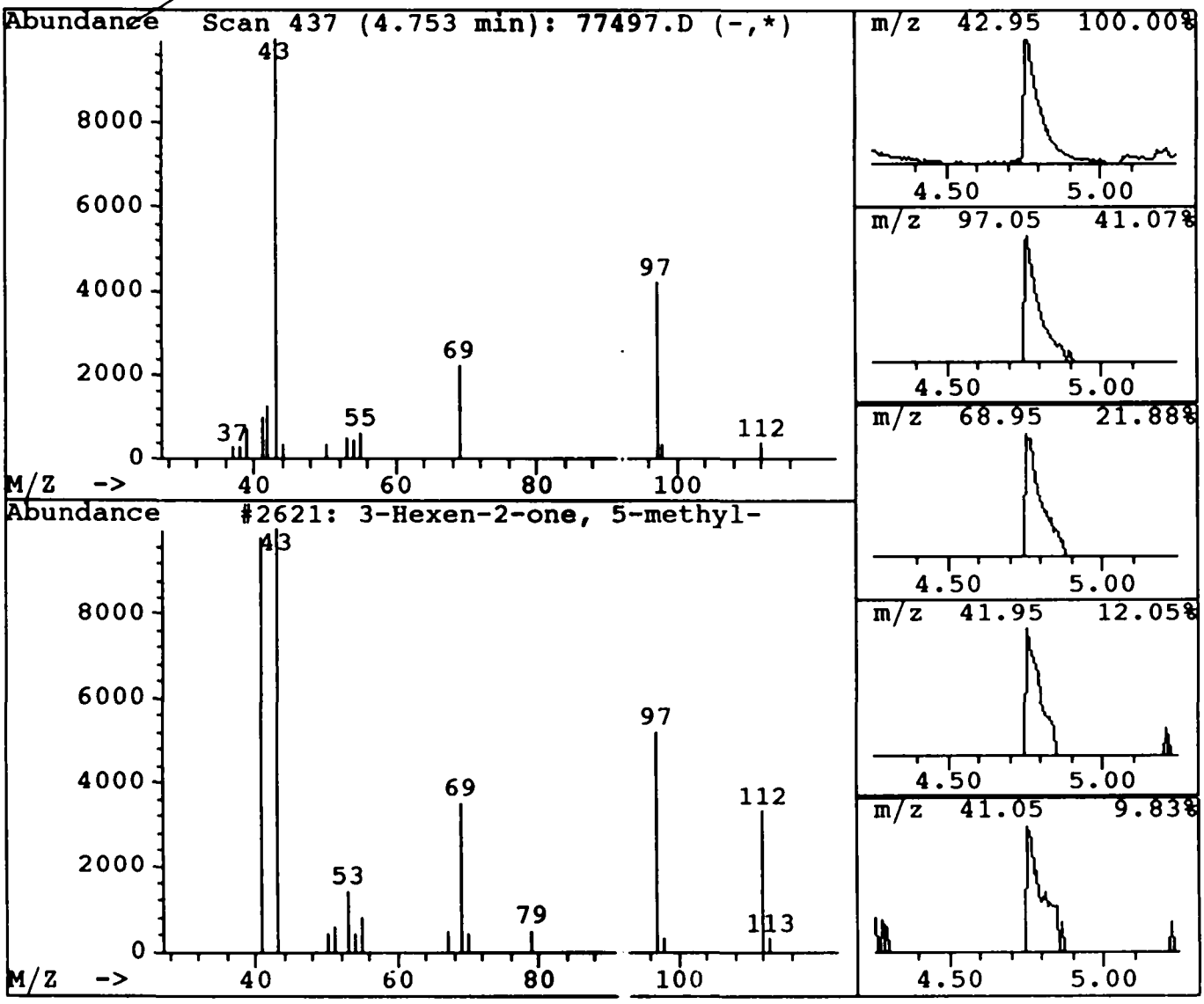
Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

000246

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.75	18.87 ug/mL	239910	CI30 1,4-Dichlorobenzene-	508425

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	3-Hexen-2-one, 5-methyl-	2621	005166-53-0	36



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19

000247

Data File: C:\CHEMPC\DATA\041096\77497.D

Name: FER39 EXT033096

Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

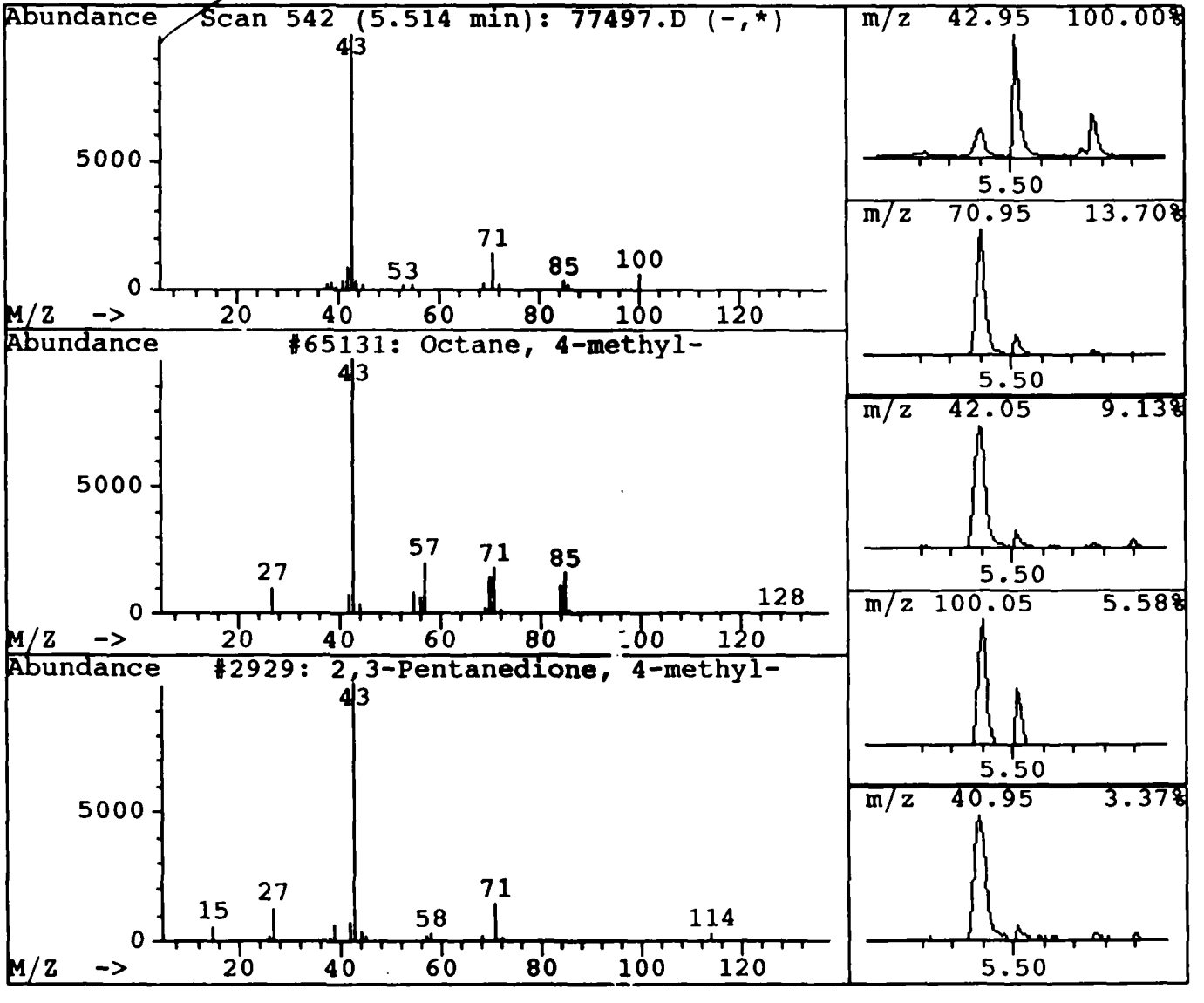
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	11.60 ug/mL	147393	CI30 1,4-Dichlorobenzene-	508425

Hit# of 2	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-methyl-	65131	002216-34-4	38
2	2,3-Pentanedione, 4-methyl-	2929	007493-58-5	33



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19

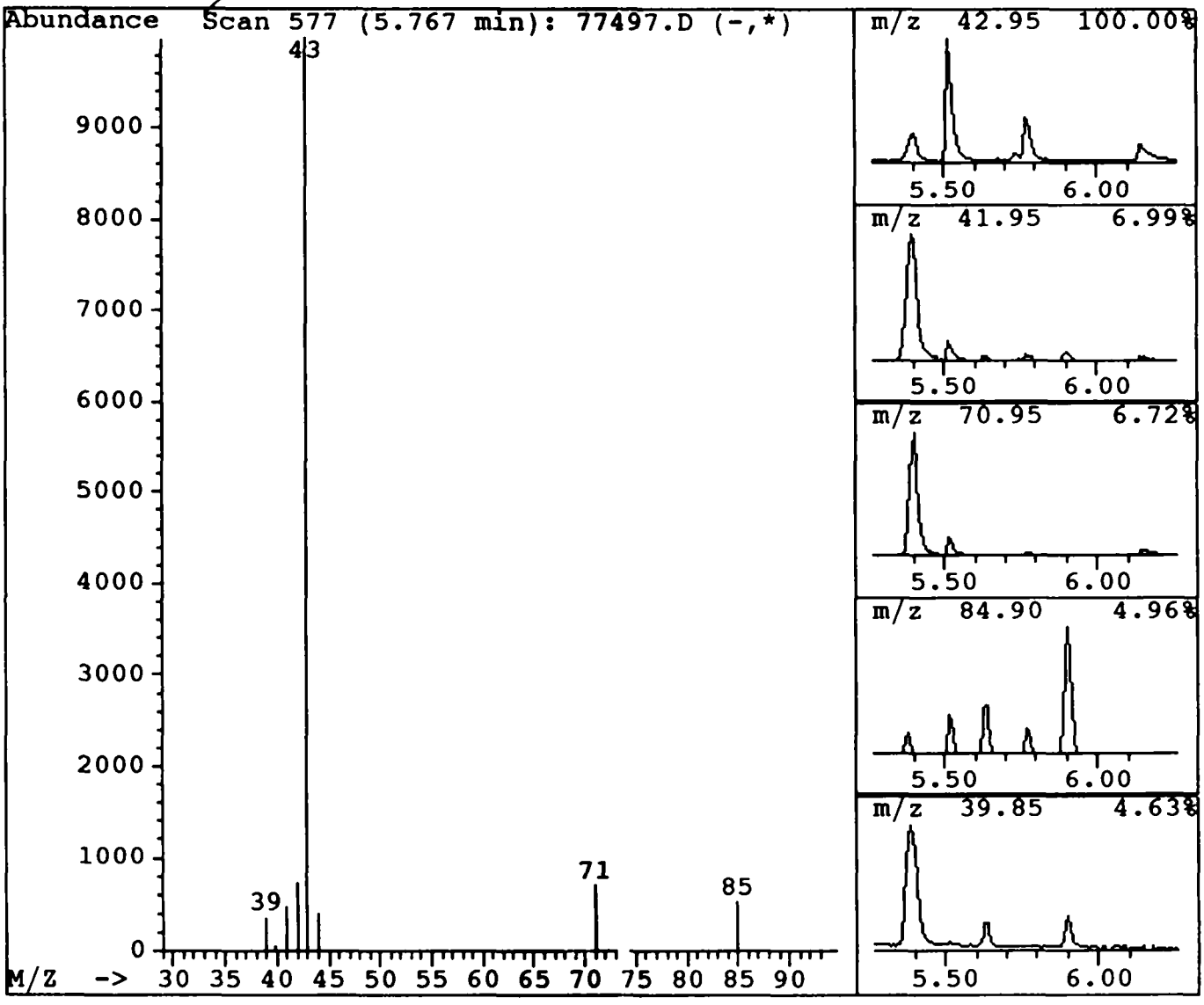
000248

Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	5.03 ug/mL	63907	CI30 1,4-Dichlorobenzene-	508425

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19

Data File: C:\CHEMPC\DATA\041096\77497.D

000249

Name: FER39 EXT033096

Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

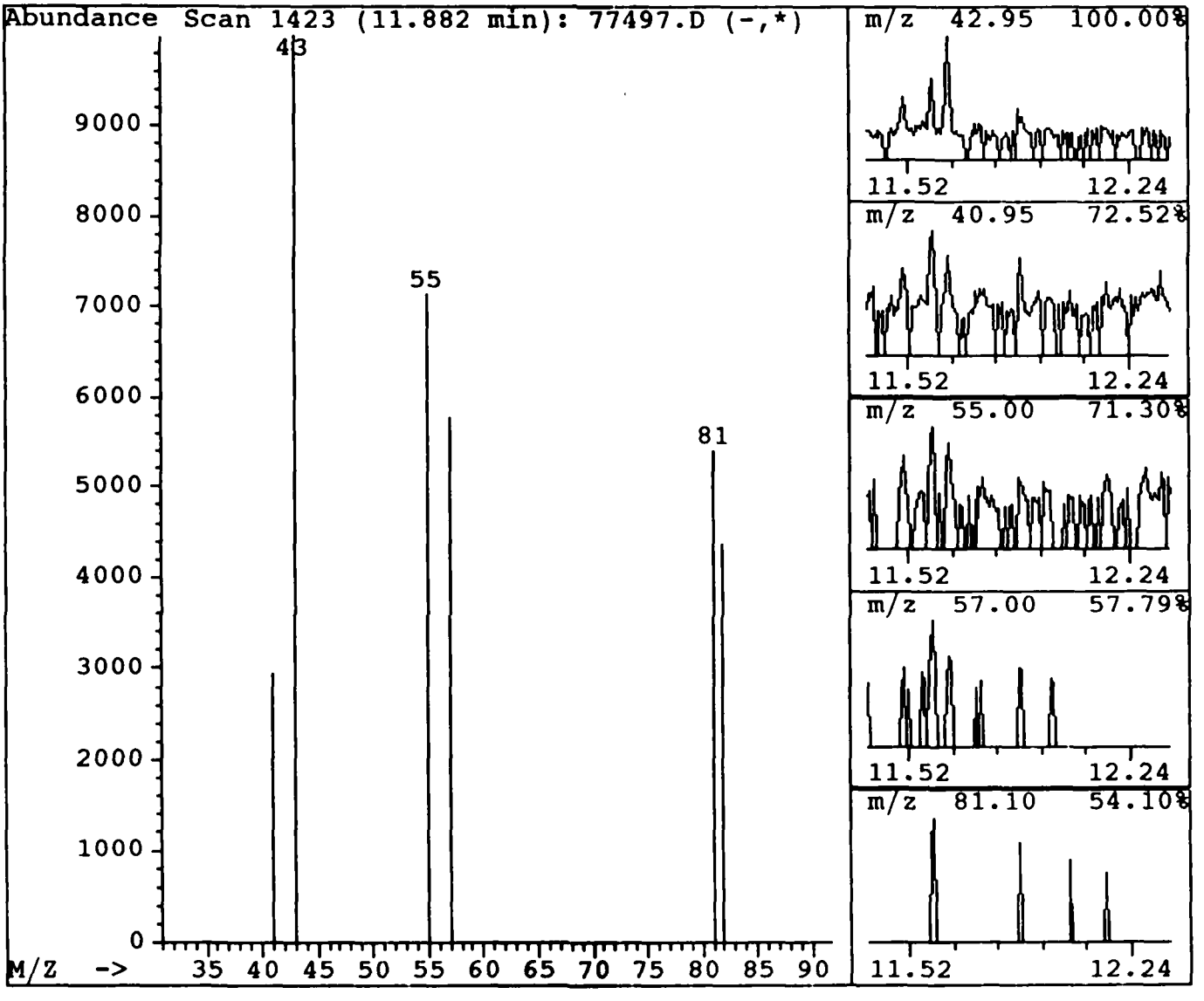
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.88	4.68 ug/mL	39721	CI60 Phenanthrene-d10	339193

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19

000250

Data File: C:\CHEMPC\DATA\041096\77497.D

Name: FER39 EXT033096

Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

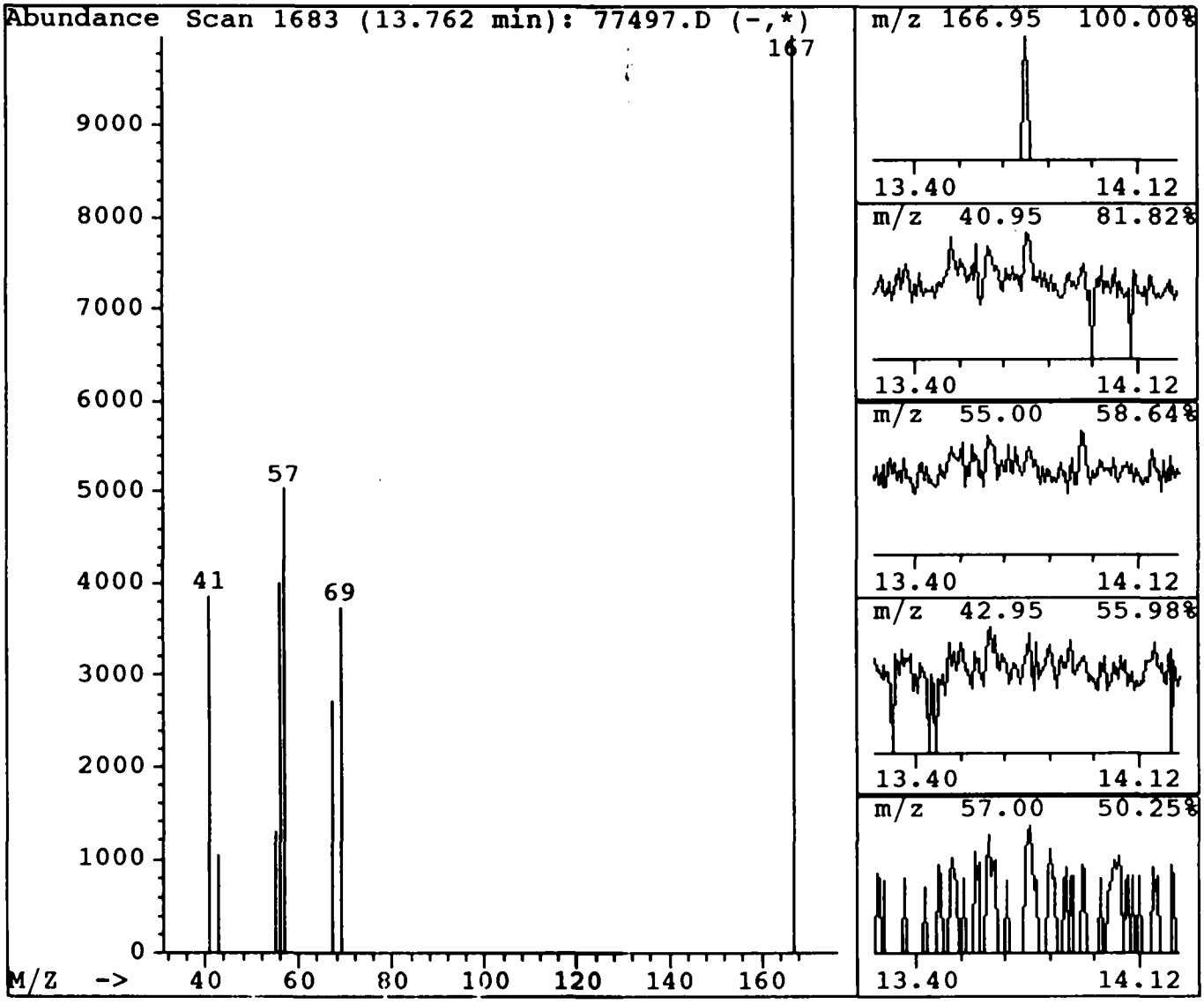
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.76	4.56 ug/mL	18145	C170 Chrysene-d12	159293

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19

Data File: C:\CHEMPC\DATA\041096\77497.D

000251

Name: FER39 EXT033096

Misc: HP6*USEPA*1542*.03*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP5

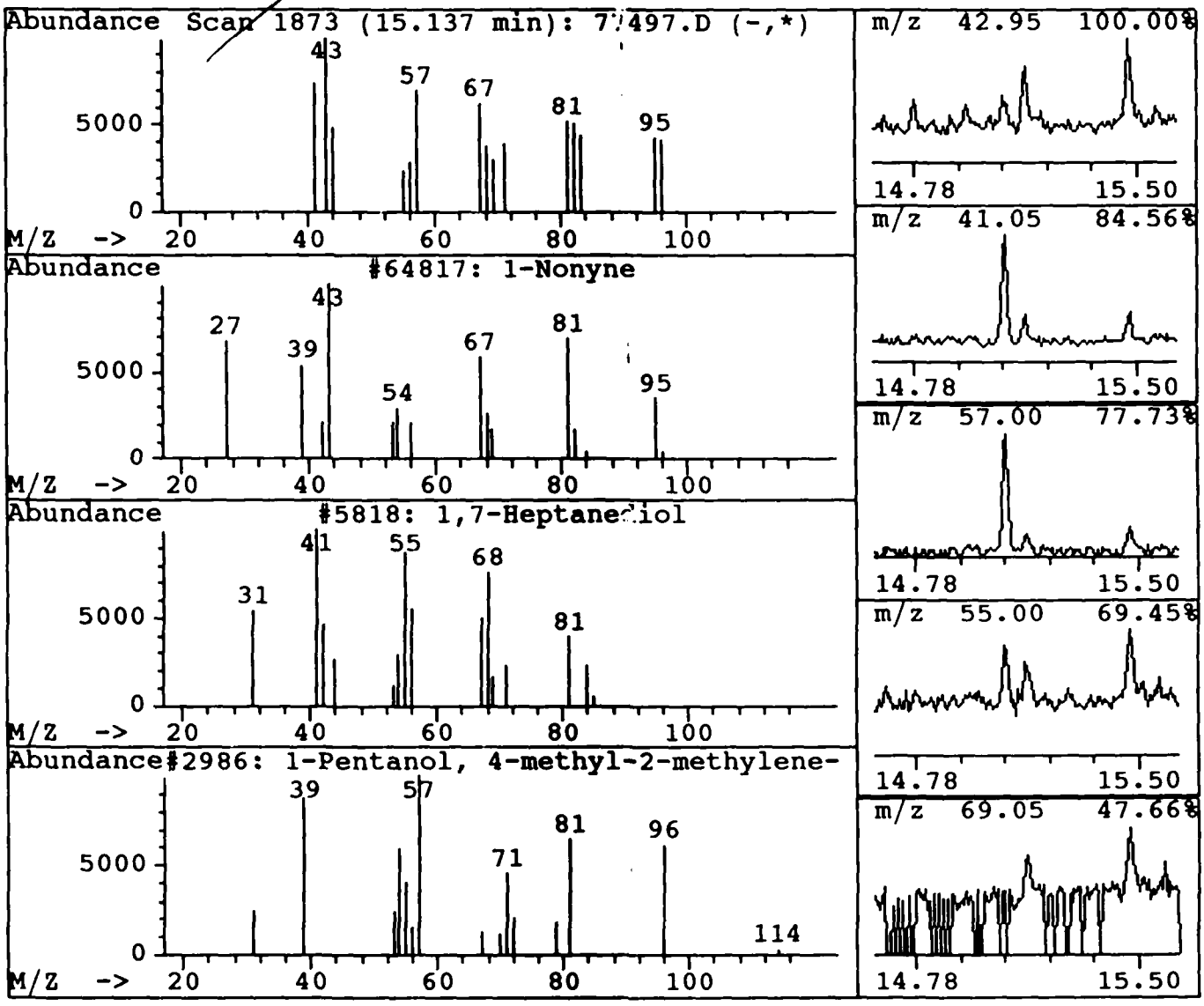
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:30 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	8.89 ug/mL	35421	C170 Chrysene-d12	159293

Hit# of 4	Tentative ID	Ref#	CAS#	Qual
1	1-Nonyne	64817	003452-09-3	12
2	1,7-Heptanediol	5818	000629-30-1	10
3	1-Pentanol, 4-methyl-2-methylene-	2986	000000-00-0	10
4	Butane, 2,2-dimethyl-	62862	000075-83-2	9



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19

000252

Data File: C:\CHEMPC\DATA\041096\77497.D

Name: FER39 EXT033096

Misc: HP6*USEPA*1542..03*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP

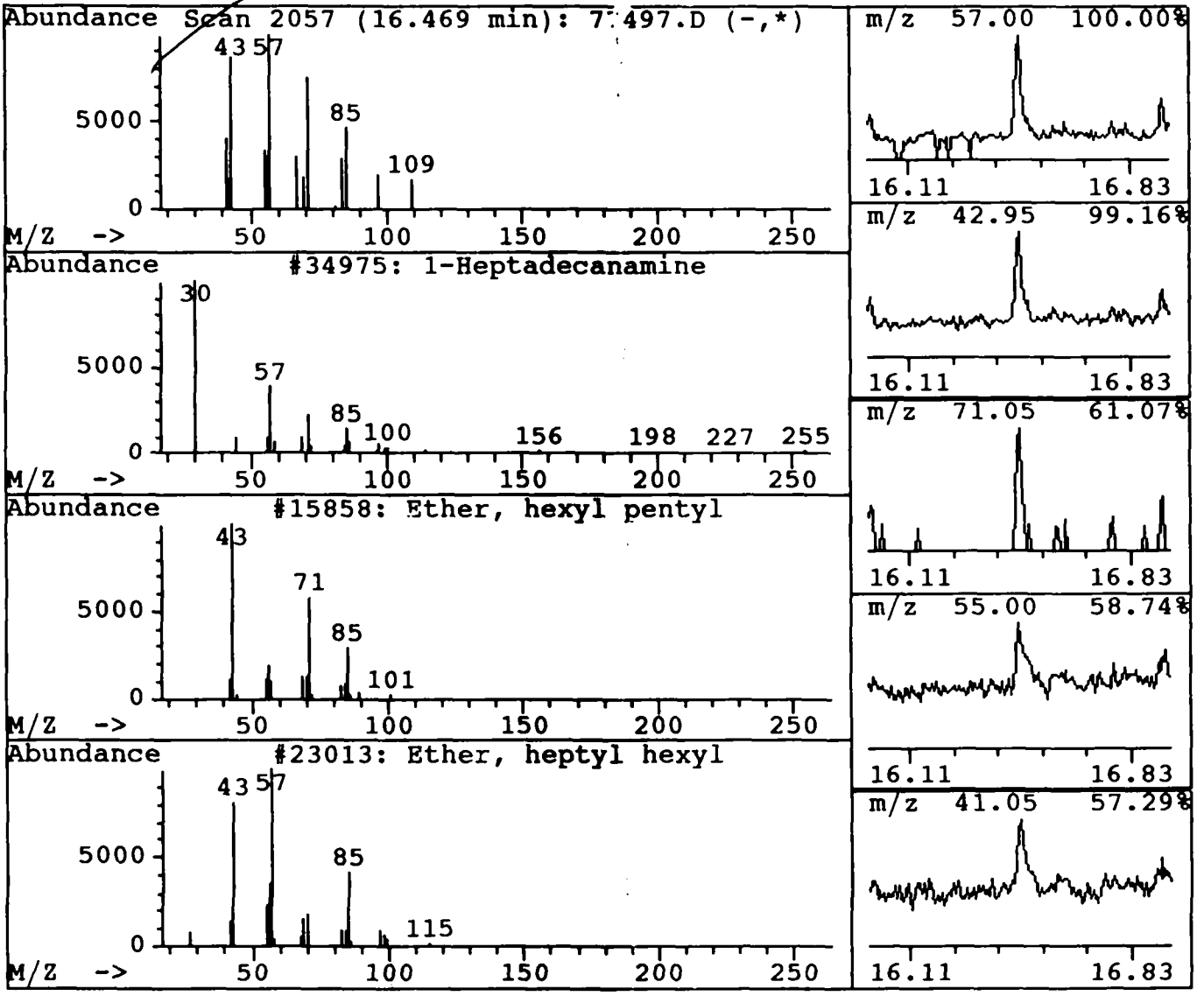
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:3. 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.47	24.30 ug/mL	203427	CI75 Perylene-d12	334899

Hit# of 9	Tentative ID	Ref#	CAS#	Qual
1	1-Heptadecanamine	34975	004200-95-7	38
2	Ether, hexyl pentyl	15858	032357-83-8	36
3	Ether, heptyl hexyl	23013	007289-40-9	27
4	Butane, 2,2-dimethyl-	62861	000075-83-2	23
5	Hexane, 1-(hexyloxy)-5-methyl-	23021	074421-19-5	12



Tentatively Identified Compound (LSC)

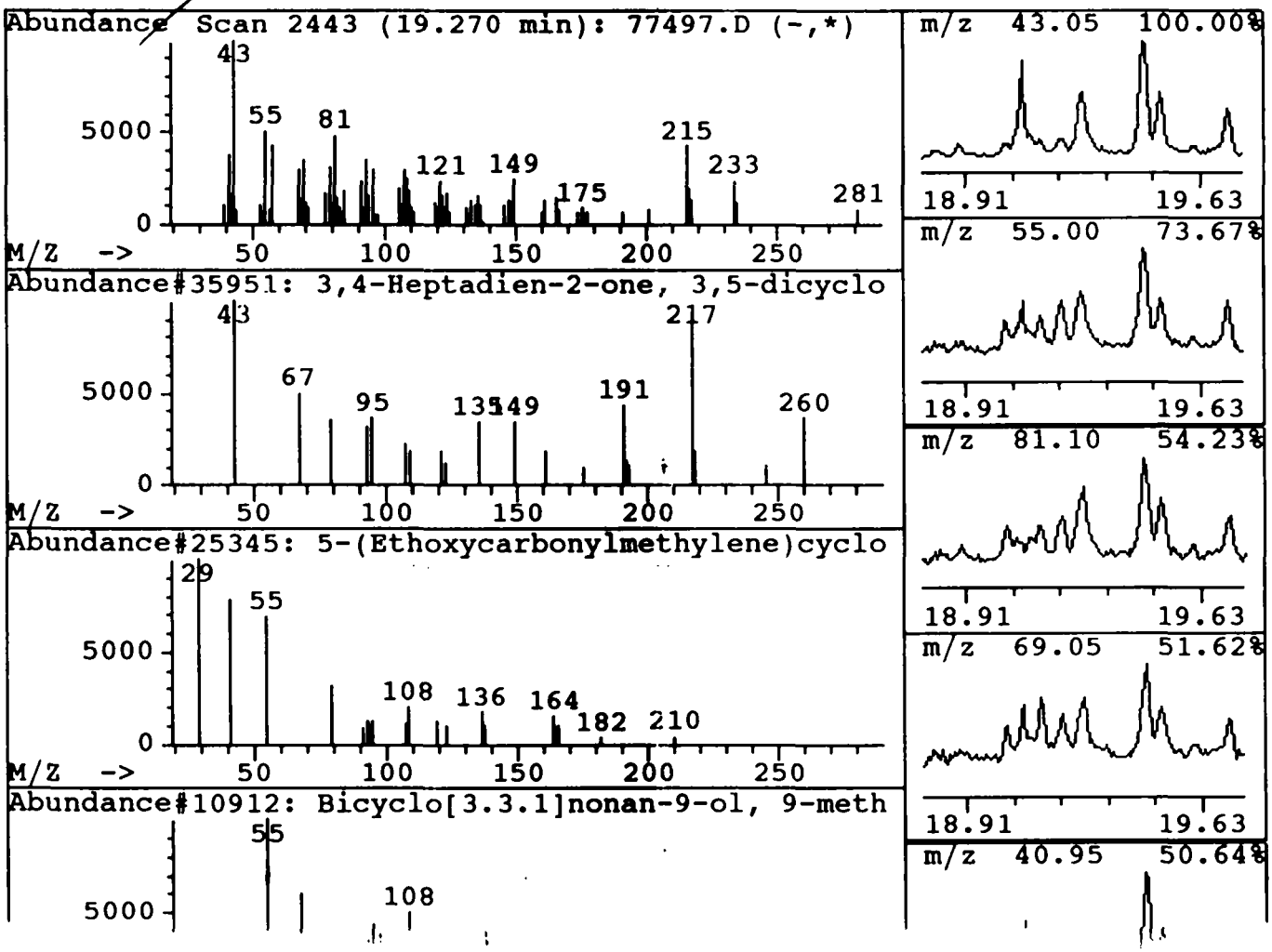
000253

Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.27	82.18 ug/mL	688015	CI75 Perylene-d12	334899

Hit# of 13	Tentative ID	Ref#	CAS#	Qual
1	3,4-Heptadien-2-one, 3,5-dicyclopen	35951	063922-51-0	10
2	5-(Ethoxycarbonylmethylene)cyclooct	25345	000000-00-0	9
3	Bicyclo[3.3.1]nonan-9-ol, 9-methyl-	10912	033832-25-6	9
4	trans-.beta.-Terpinyl butanoate	70708	002153-28-8	9
5	7-Oxabicyclo[4.1.0]heptane, 1-methy	14556	000096-08-2	9



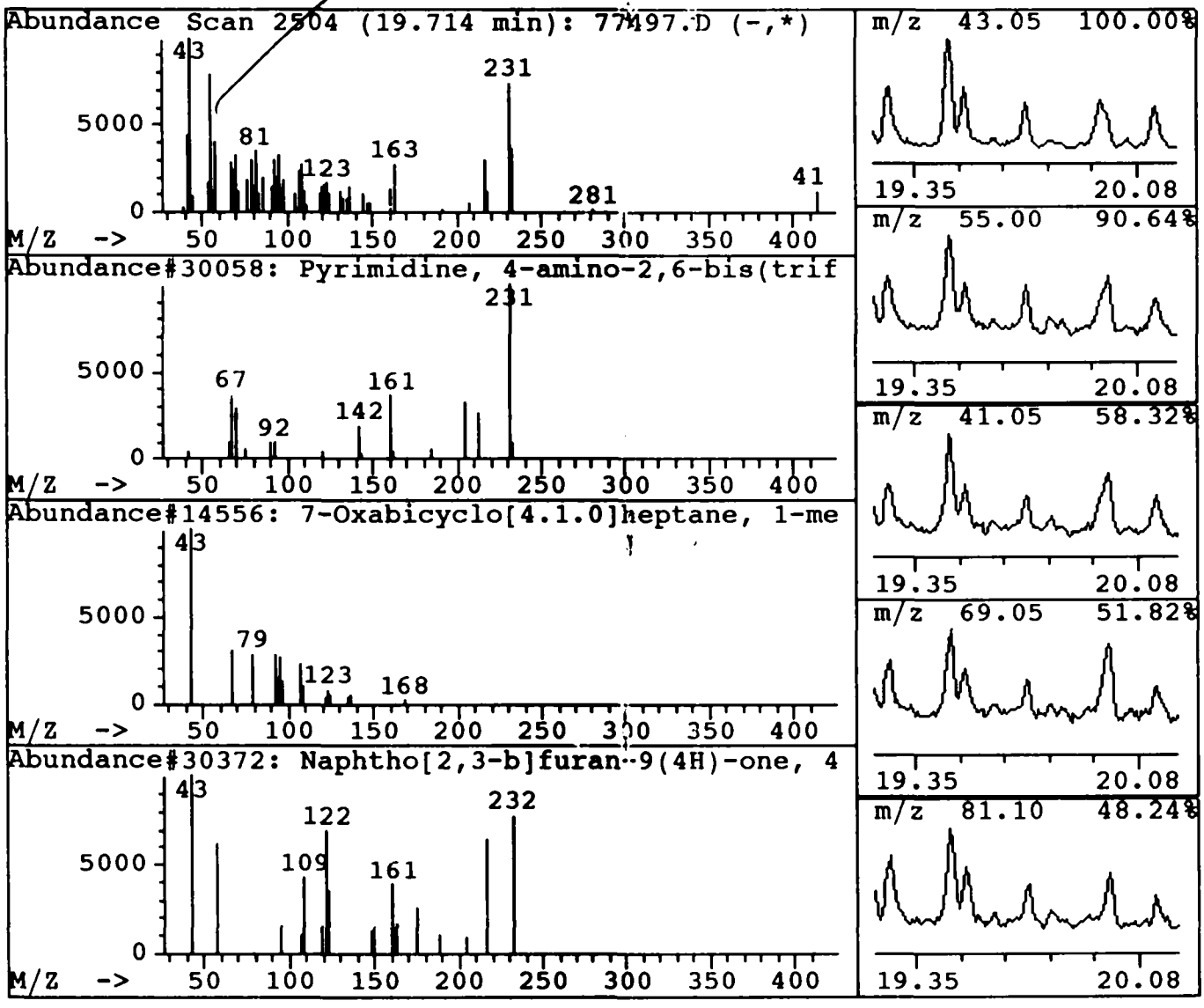
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.71	89.01 ug/mL	745230	C:75 Perylene-d12	334899

Hit# of 9	Tentative ID	Ref#	CAS#	Qual
1	Pyrimidine, 4-amino-2,6-bis(trifluo	30058	000717-61-3	14
2	7-Oxabicyclo[4.1.0]heptane, 1-methy	14556	000096-08-2	11
3	Naphtho[2,3-b]furan-9(4H)-one, 4a,5	30372	015404-32-7	10
4	7-Oxabicyclo[4.1.0]heptane, 1-methy	10364	001195-92-2	10
5	Caryophyllene oxide	27701	001139-30-6	10



Tentatively Identified Compound (LSC)

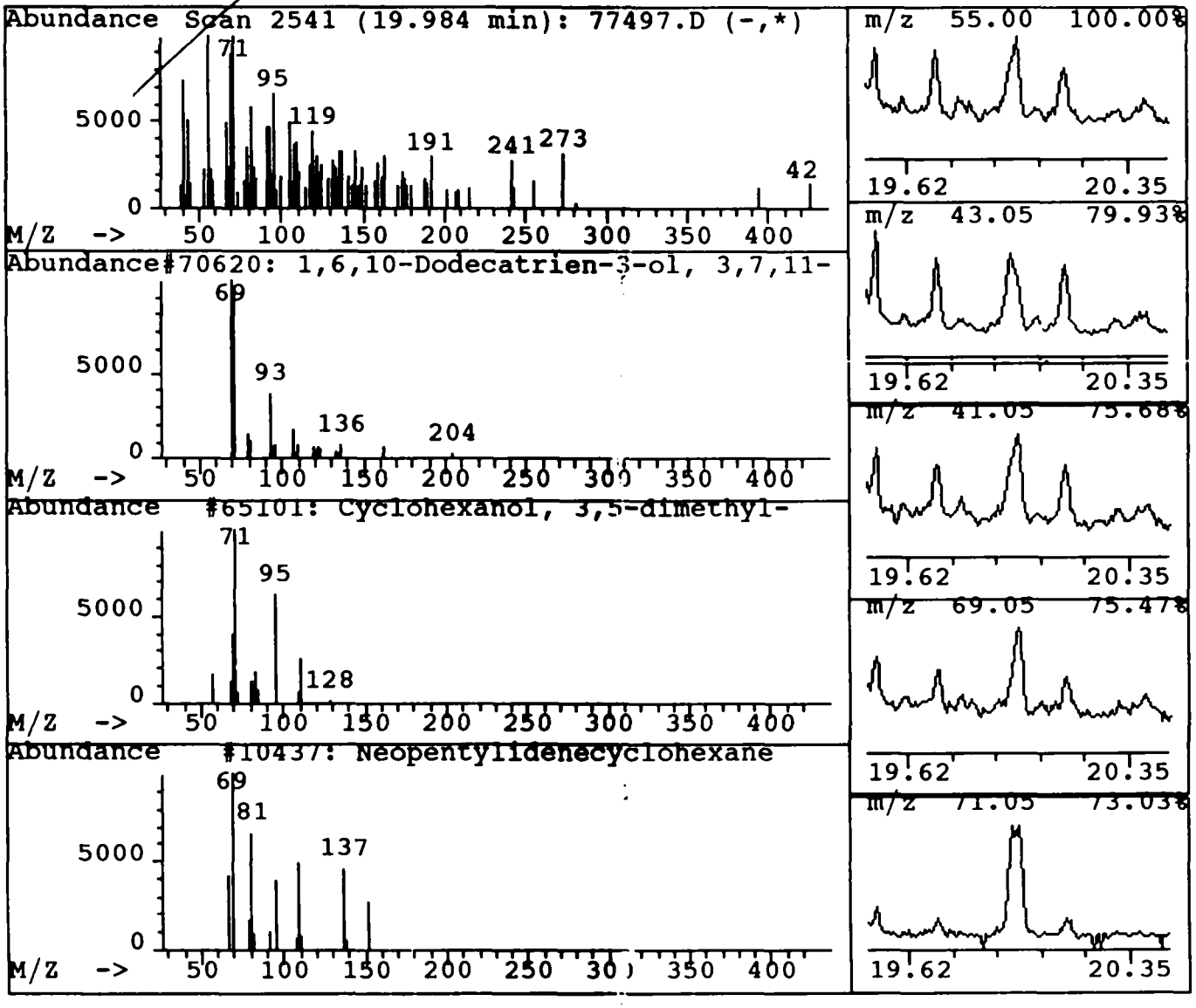
000255

Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.98	73.39 ug/mL	614417	CI75 Perylene-d12	334899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,6,10-Dodecatrien-3-ol, 3,7,11-tri	70620	007212-44-4	27
2	Cyclohexanol, 3,5-dimethyl-	65101	005441-52-1	16
3	Neopentylidenecyclohexane	10437	039546-80-0	12
4	Cyclohexanol, 1-methyl-4-(1-methyle	11534	021129-27-1	12
5	Decane, 1,10-dibromo-	72695	004101-68-2	10



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19

000256

Data File: C:\CHEMPC\DATA\041096\77497.D

Name: FER39 EXT033096

Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

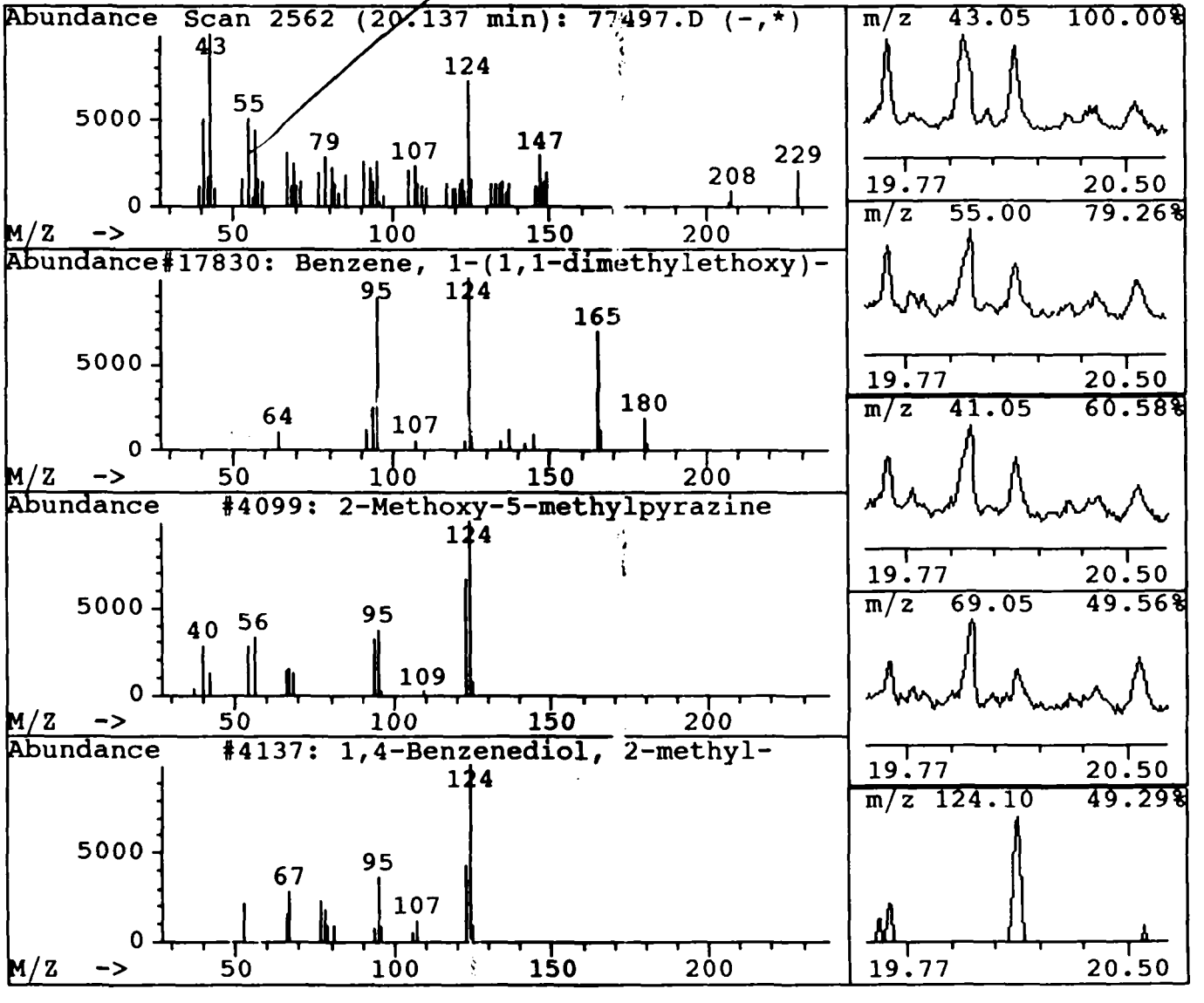
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.14	102.76 ug/mL	860384	C175 Perylene-d12	334899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Benzene, 1-(1,1-dimethylethoxy)-3-m	17830	015359-99-6	16
2	2-Methoxy-5-methylpyrazine	4099	000000-00-0	14
3	1,4-Benzenediol, 2-methyl-	4137	000095-71-6	12
4	Phosphine, (1,1-dimethylethyl)methy	17849	007621-16-1	10
5	2-Cyclohexen-1-one, 4-hydroxy-3,5,6	28120	077846-84-5	10



Tentatively Identified Compound (LSC)

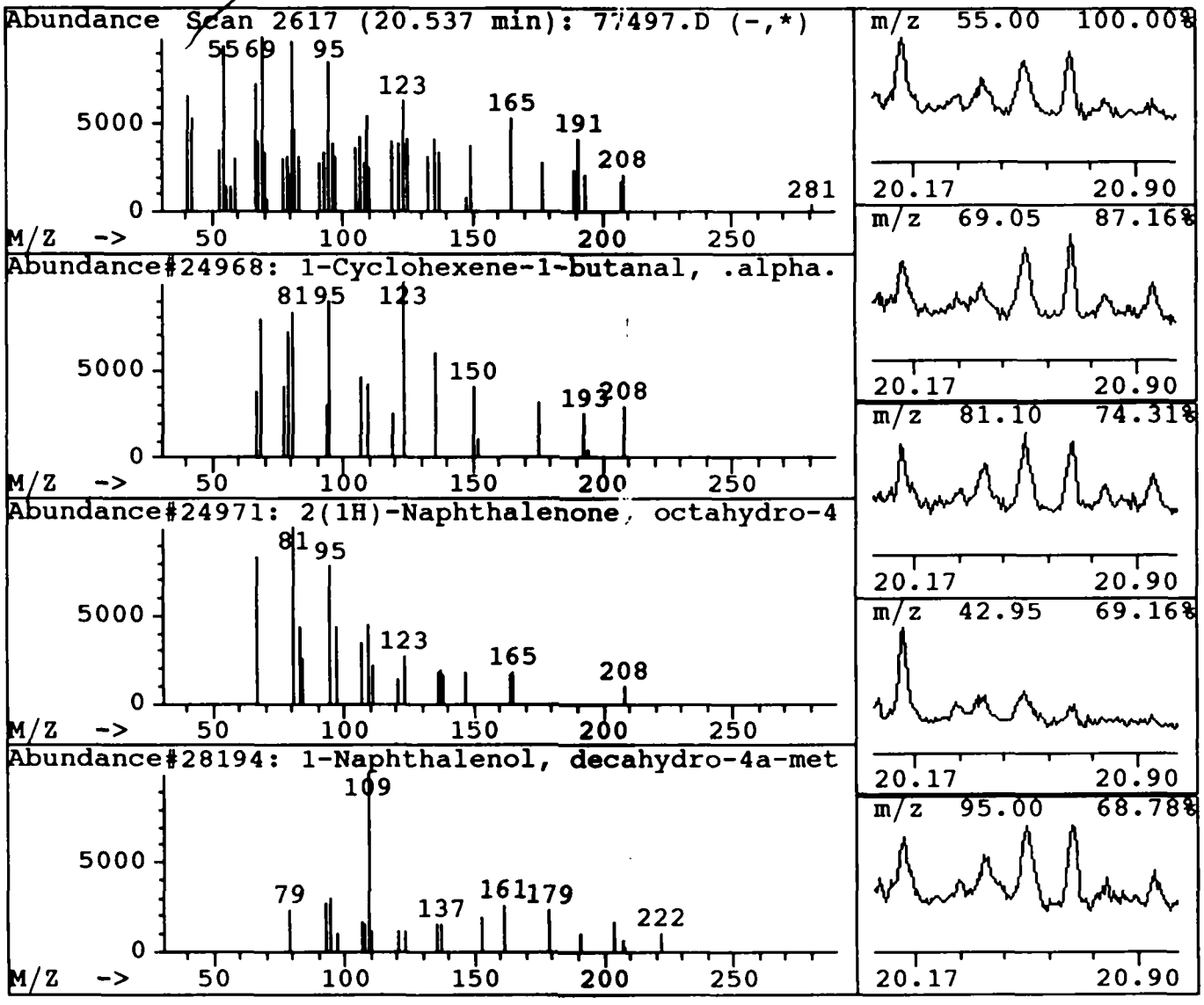
Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*1542?.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

000257

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.54	39.87 ug/mL	333849	CI75 Perylene-d12	334899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Cyclohexene-1-butanal, .alpha.,2,	24968	021632-06-4	38
2	2(1H)-Naphthalenone, octahydro-4a-m	24971	054594-42-2	38
3	1-Naphthalenol, decahydro-4a-methyl	28194	030951-17-8	35
4	Tricyclo[4.3.0.07,9]nonane, 2,2,5,5	24461	054832-82-5	27
5	Amorphane-B	24995	000000-00-0	27



Tentatively Identified Compound (LSC)

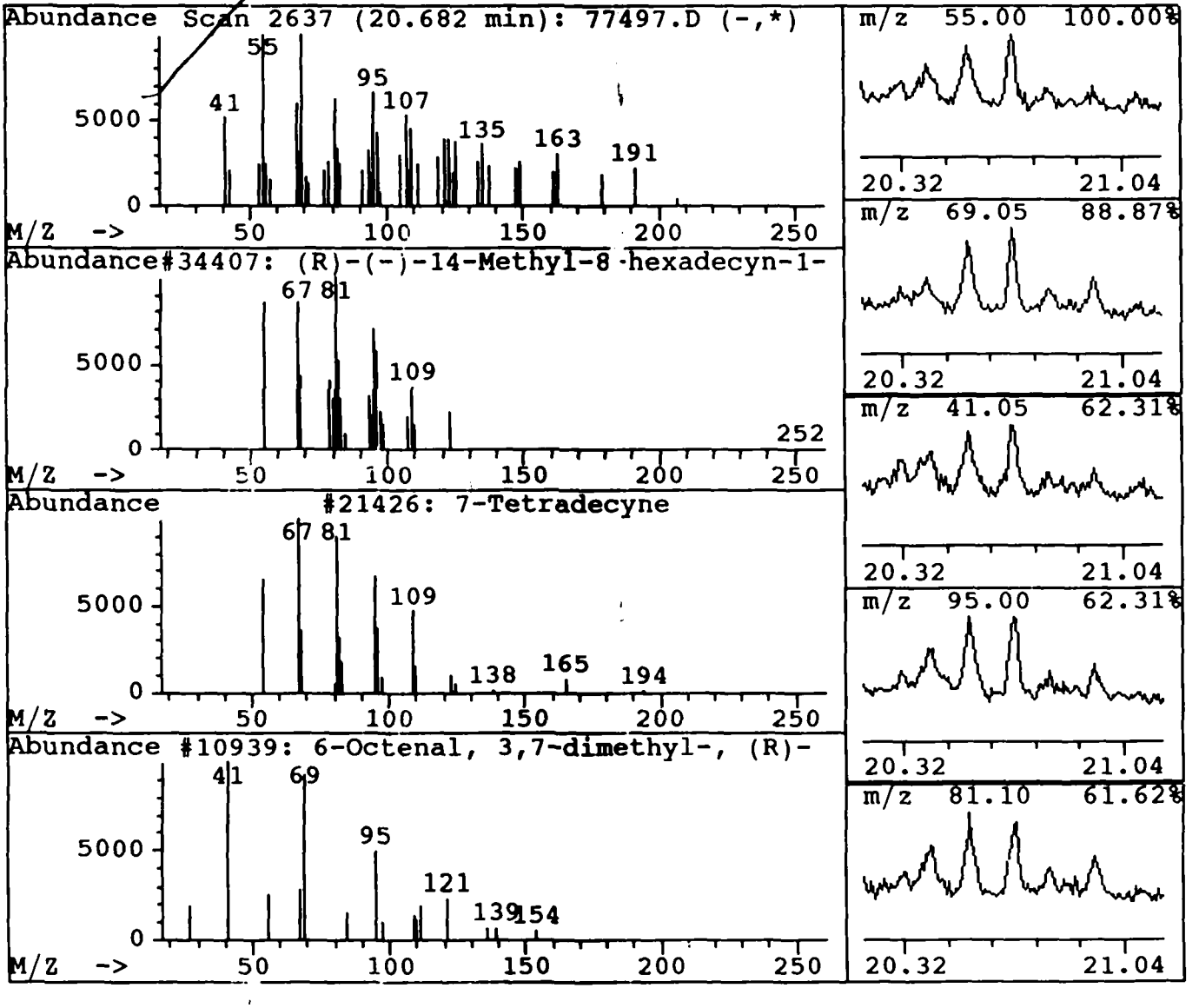
000258

Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.68	224.55 ug/mL	1880024	C.75 Perylene-d12	334899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(R)-(-)-14-Methyl-8-hexadecyn-1-ol	34407	064566-18-3	43
2	7-Tetradecyne	21426	035216-11-6	22
3	6-Octenal, 3,7-dimethyl-, (R)-	10939	002385-77-5	22
4	Cyclopentaneacetaldehyde, 2-formyl-	14016	005951-57-5	22
5	7-Heptadecyne, 17-chloro-	37795	056554-75-7	14



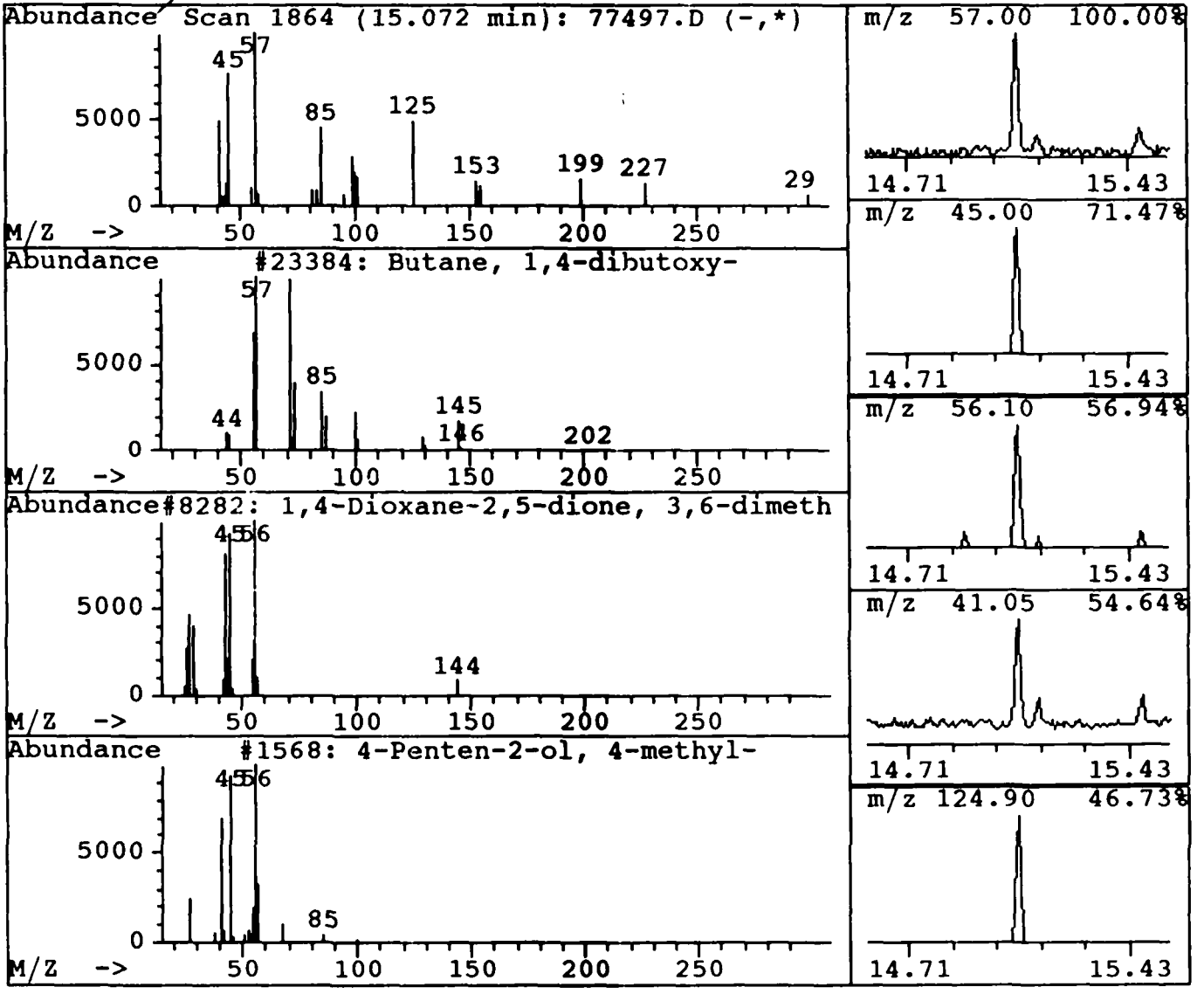
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	21.82 ug/mL	86898	C170 Chrysene-d12	159293

Hit# of 11	Tentative ID	Ref#	CAS#	Qual
1	Butane, 1,4-dibutoxy-	23384	004161-40-4	12
2	1,4-Dioxane-2,5-dione, 3,6-dimethyl	8282	000095-96-5	12
3	4-Penten-2-ol, 4-methyl-	1568	002004-67-3	12
4	Butane, 1,1'-[ethylidenebis(oxy)]bi	68451	000871-22-7	10
5	Furan, tetrahydro-2,5-dimethyl-	1541	001003-38-9	10



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19

000260

Data File: C:\CHEMPC\DATA\041096\77497.D

Name: FER39 EXT033096

Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

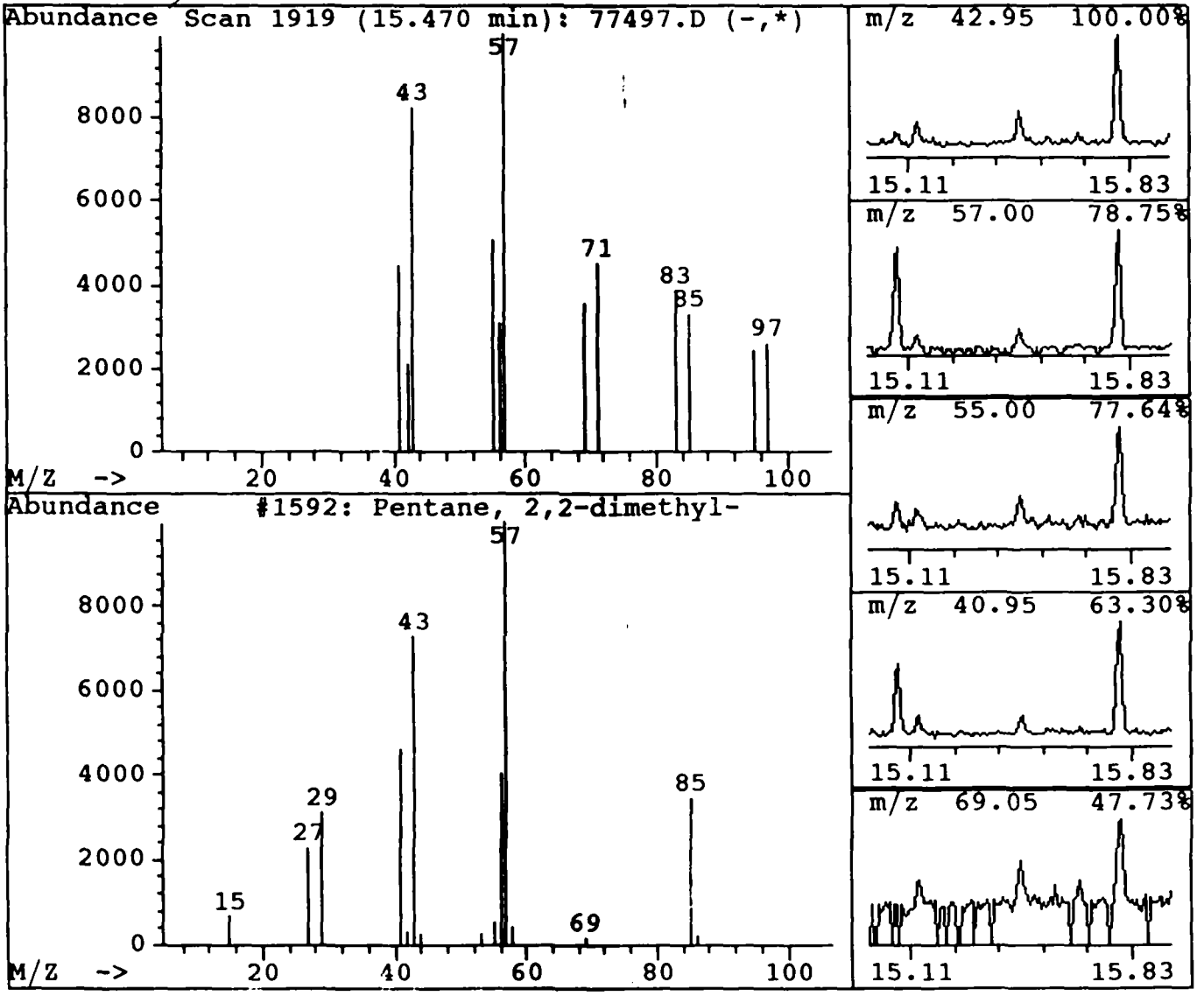
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.47	7.08 ug/mL	28210	C:70 Chrysene-d12	159293

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Pentane, 2,2-dimethyl-	1592	000590-35-2	8



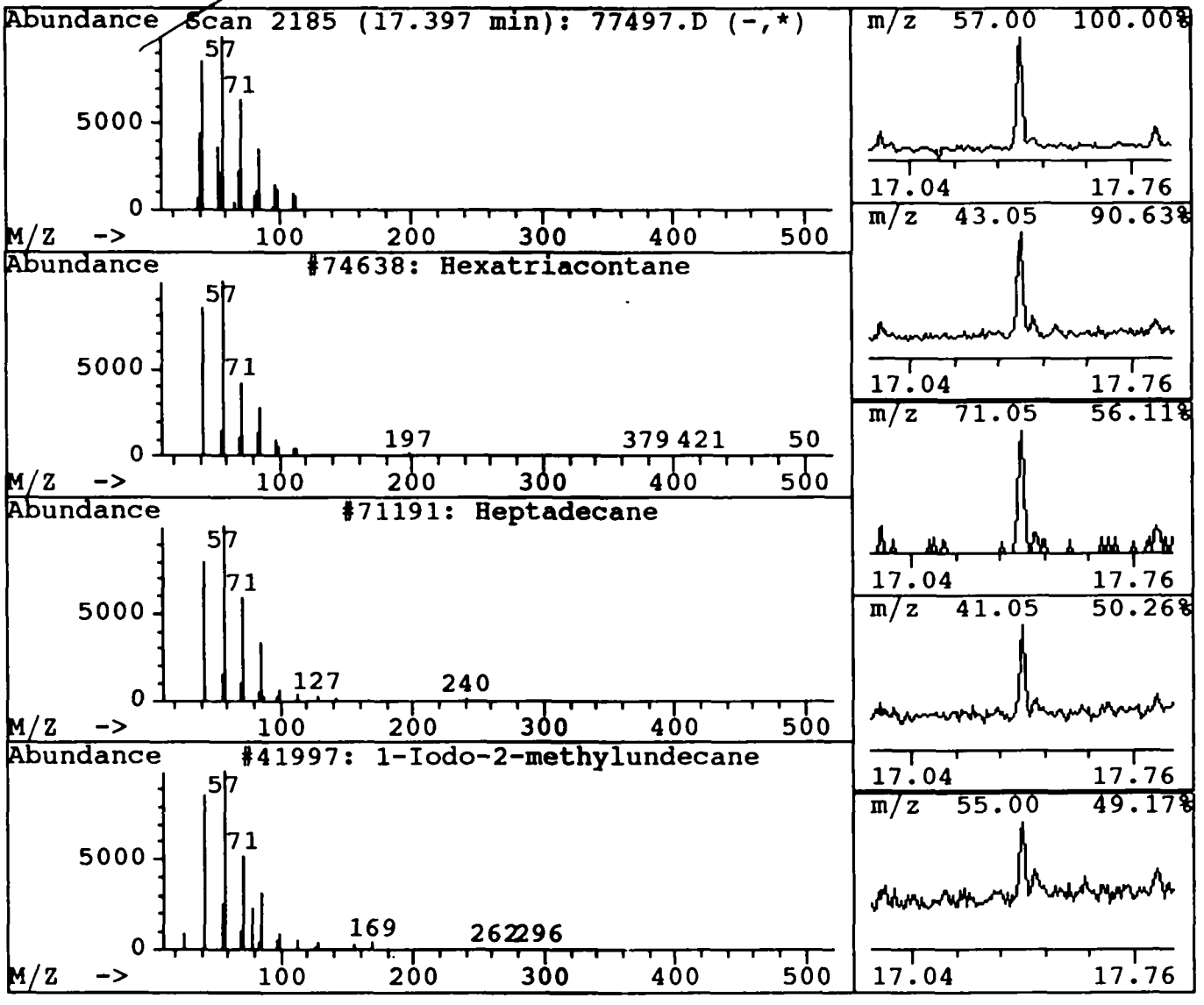
Tentatively Identified Compound (LSC) 000261

Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.40	16.14 ug/mL	135137	C275 Perylene-d12	334899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexatriacontane	74638	000630-06-8	78
2	Heptadecane	71191	000629-78-7	72
3	1-Iodo-2-methylundecane	41997	073105-67-6	64
4	Tetradecane	69658	000629-59-4	64
5	Eicosane	72323	000112-95-8	64



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19

000262

Data File: C:\CHEMPC\DATA\041096\77497.D

Name: FER39 EXT033096

Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

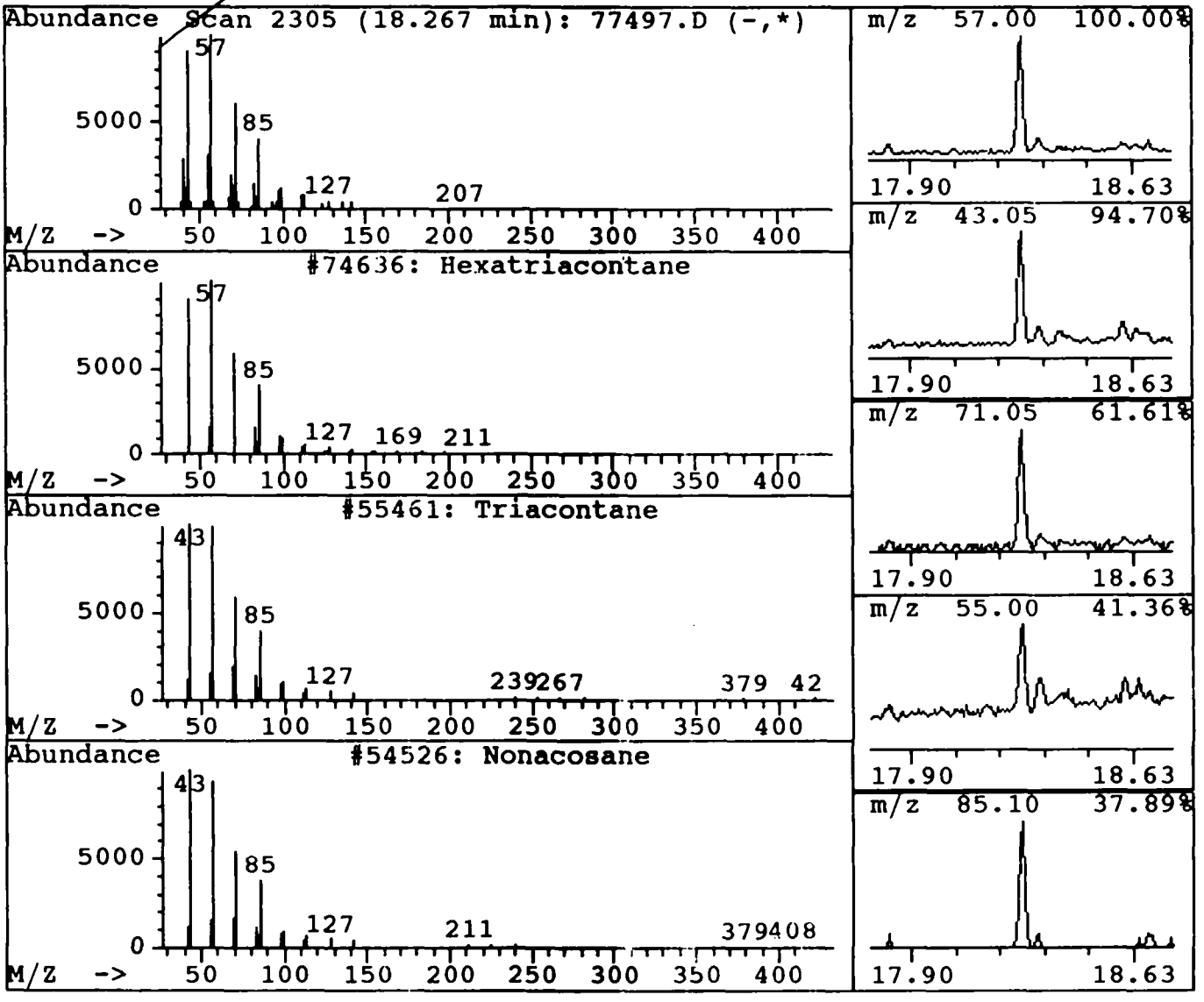
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.27	164.44 ug/mL	1376755	CI75 Perylene-d12	334899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexatriacontane	74636	000630-06-8	91
2	Triacontane	55461	000638-68-6	90
3	Nonacosane	54526	000630-03-5	90
4	Pentatriacontane	58743	000630-07-9	90
5	Pentacosane	73718	000629-99-2	87



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 16:19

000263

Data File: C:\CHEMPC\DATA\041096\77497.D

Name: FER39 EXT033096

Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

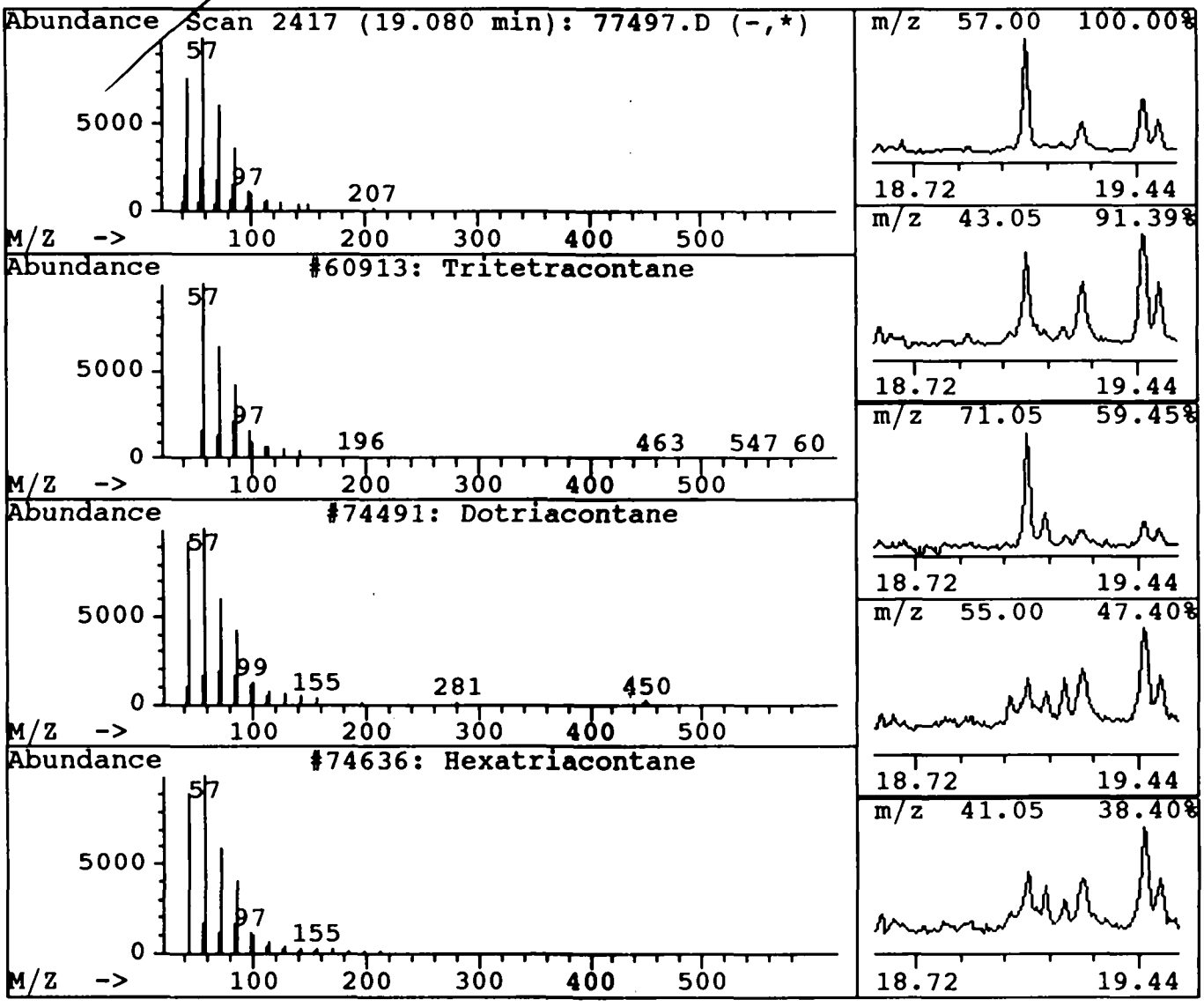
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.08	97.11 ug/mL	813086	CI75 Perylene-d12	334899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tritetracontane	60913	007098-21-7	87
2	Dotriacontane	74491	000544-85-4	87
3	Hexatriacontane	74636	000630-06-8	87
4	Hexatriacontane	74635	000630-06-8	87
5	Tetratetracontane	61068	007098-22-8	83



Tentatively Identified Compound (LSC)

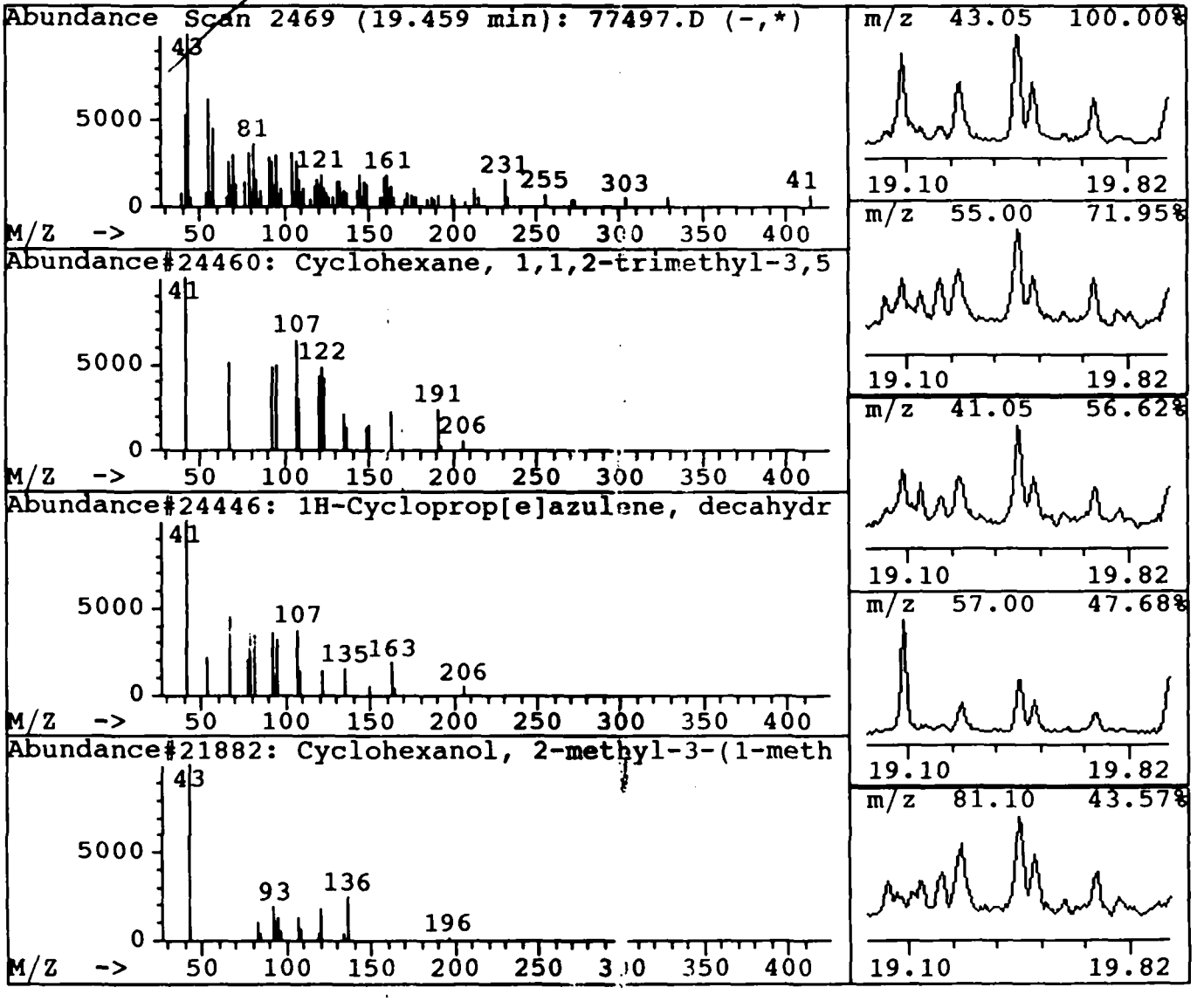
000264

Operator ID: AK Date Acquired: 10 Apr 96 16:19
Data File: C:\CHEMPC\DATA\041096\77497.D
Name: FER39 EXT033096
Misc: HP6*USEPA*15427.03*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.46	149.00 ug/mL	1247468	C175 Perylene-d12	334899

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexane, 1,1,2-trimethyl-3,5-bi	24460	062337-97-7	32
2	1H-Cycloprop[e]azulene, decahydro-1	24446	028580-43-0	27
3	Cyclohexanol, 2-methyl-3-(1-methyle	21882	054845-29-3	27
4	(4R,4aR,5S)-5-isopropyl-4,4a-dimeth	24441	000000-00-0	27
5	1,2-Pentanediol, 5-(6-bromodecahydr	58513	115334-14-0	16



1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000267
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
FER40

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542704

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77441

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/12/96

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.27	400	ABJ
2.		Aldol condensation	4.00	410	AJ
3.		Aldol condensation	4.70	830	ABJ
4.		Aldol condensation	5.50	180	ABJ
5.		Unknown	8.72	160	J
6.		Unknown	9.40	160	J
7.		Unknown	9.58	120	J
8.	634-67-3	Benzenamine, 2,3,4-trichloro	9.73	450	JN
9.		Unknown	9.95	110	J
10.	732-26-3	Phenol, 2,4,6-tris(1,1-dimet	10.07	350	JN
11.		Unknown	11.33	250	J
12.		Unknown	17.38	440000	J

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 17:01

000268

Data File: C:\CHEMPC\DATA\040596\77441.D

Name: FER40 EXT033096

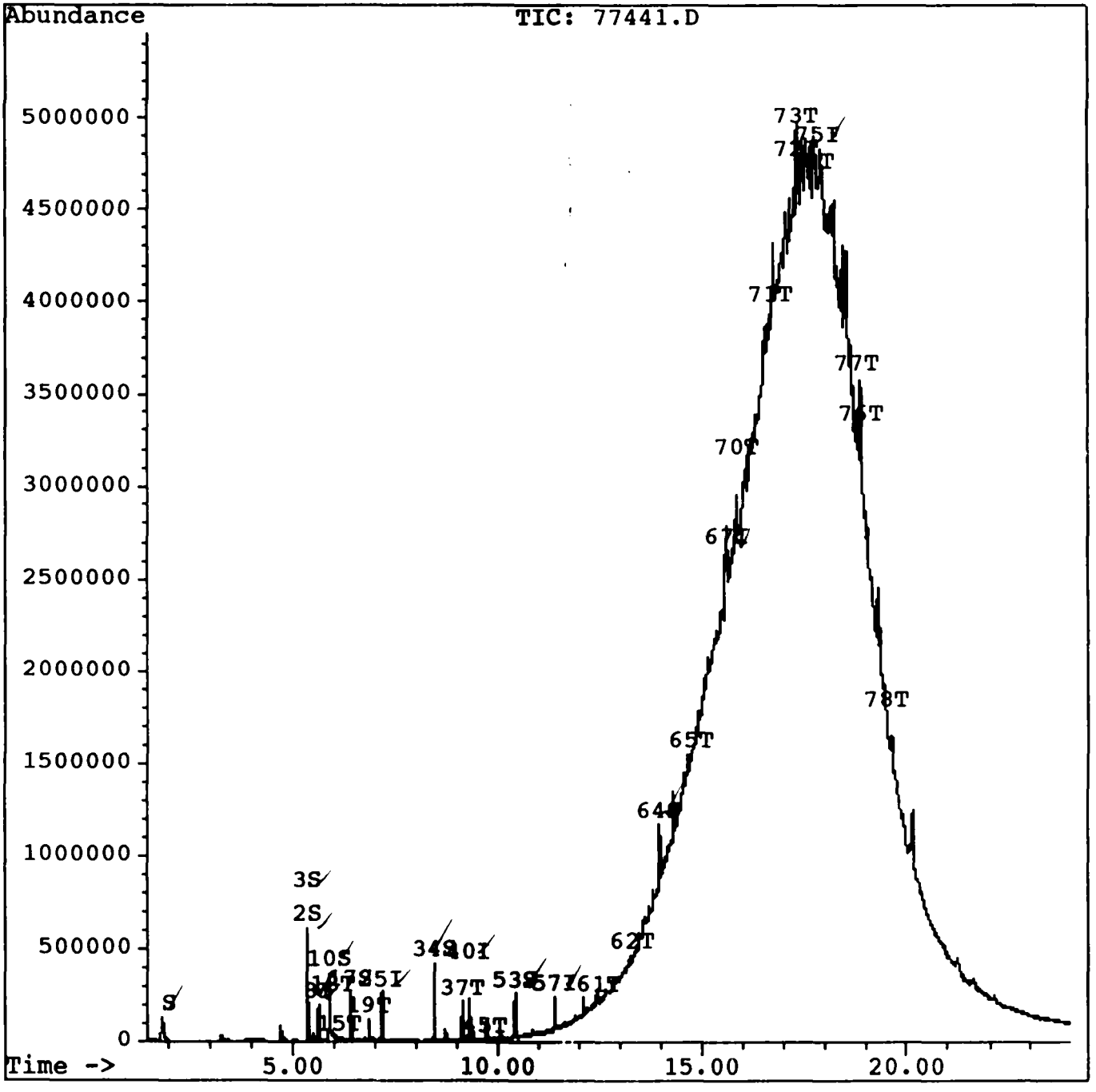
Misc: HP6*USEPA*1542?.04*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 11 13:34:37 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 17:01
Data File: C:\CHEMPC\DATA\040596\77441.D
Name: FER40 EXT033096
Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 11 13:34:37 1996
Quantitated using Single Level Calibration

000269

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.62	152	53257	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.16	136	139645	40.00	ug/mL	0.01
40) CI50 Acenaphthene-d10	9.30	164	61987	40.00	ug/mL	0.01
57) CI60 Phenanthrene-d10	11.41	188	79516	40.00	ug/mL	0.01
67) CI70 Chrysene-d12	15.64	240	109305	40.00	ug/mL	0.07
75) CI75 Perylene-d12	17.87	264	65002	40.00	ug/mL	0.07

System Monitoring Compounds

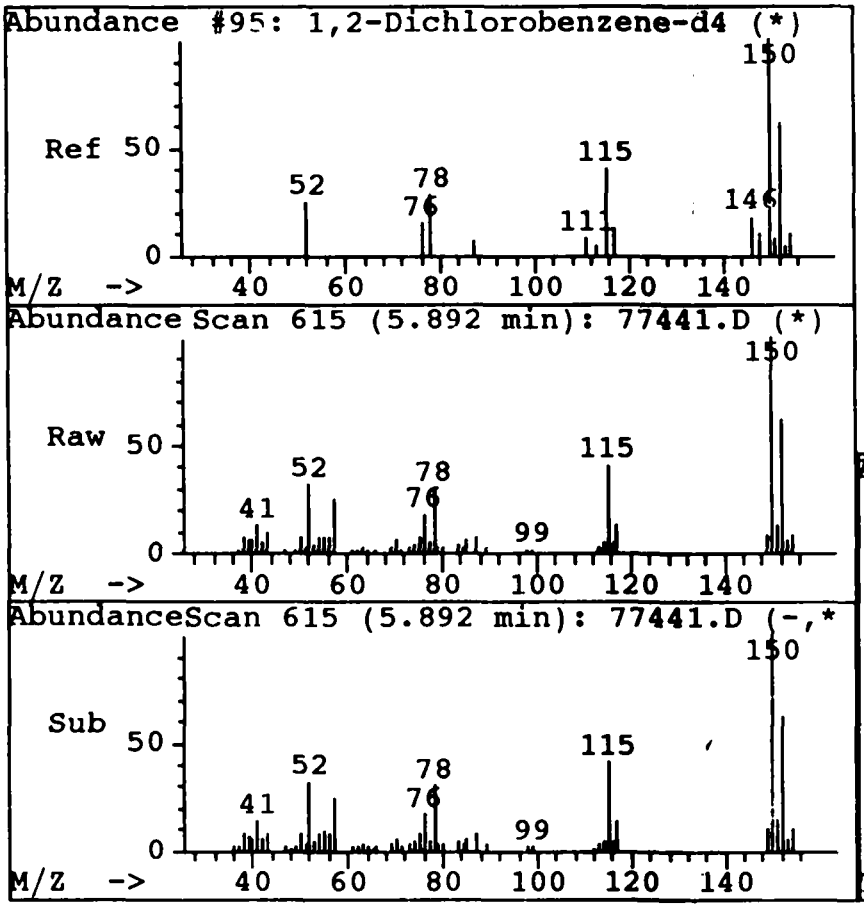
						%Recovery
1) CS50 2-Fluorophenol	1.86	112	134120	139.22	ug/mL	92.81%
2) CS45 Phenol-d5	5.36	99	179908	103.47	ug/mL	68.98%
3) CS70 2-Chlorophenol-d4	5.35	132	163020	108.43	ug/mL	72.29%
10) CS75 1,2-Dichlorobenzene-d	5.89	152	64489	58.06	ug/mL	58.06%
17) CS20 Nitrobenzene-d5	6.41	82	110795	67.63	ug/mL	67.63%
34) CS25 2-Fluorobiphenyl	8.45	172	150849	72.37	ug/mL	72.37%
53) CS55 2,4,6-Tribromophenol	10.43	330	35518	124.32	ug/mL	82.88%
64) CS30 Terphenyl-d14	13.98	244	143529	60.91	ug/mL	60.91%

Target Compounds

						ISTD#
13) C355 2-Methylphenol	5.97	108	6950	5.51	ug/mL	001#
15) C370 N-Nitroso-di-n-propyl	6.13	70	5472	5.36	ug/mL	001#
19) C415 Isophorone	6.86	82	10811	4.53	ug/mL	002#
37) C535 Dimethylphthalate	9.14	163	5335	2.67	ug/mL	003#
45) C560 4-Nitrophenol	9.69	109	5370	27.71	ug/mL	003#
61) C650 Di-n-butylphthalate	12.49	149	14490	4.29	ug/mL	004#
62) C655 Fluoranthene	13.32	202	21377	8.94	ug/mL	004
65) C720 Butylbenzylphthalate	14.74	149	52631	25.99	ug/mL	005#
70) C745 bis(2-Ethylhexyl)phth	15.87	149	373237	136.08	ug/mL	005
71) C760 Di-n-octylphthalate	16.71	149	111603	38.40	ug/mL	006
72) C765 Benzo(b)fluoranthene	17.33	252	5057	2.95	ug/mL	006#
73) C770 Benzo(k)fluoranthene	17.33	252	20877	10.26	ug/mL	006#
74) C775 Benzo(a)pyrene	17.72	252	4713	2.96	ug/mL	006#
76) C780 Indeno(1,2,3-cd)pyren	18.92	276	8469	4.42	ug/mL	006#
77) C785 Dibenz(a,h)anthracene	18.81	278	39878	28.06	ug/mL	006#
78) C790 Benzo(g,h,i)perylene	19.52	276	16077	10.22	ug/mL	006#

NO FALSE POSITIVE

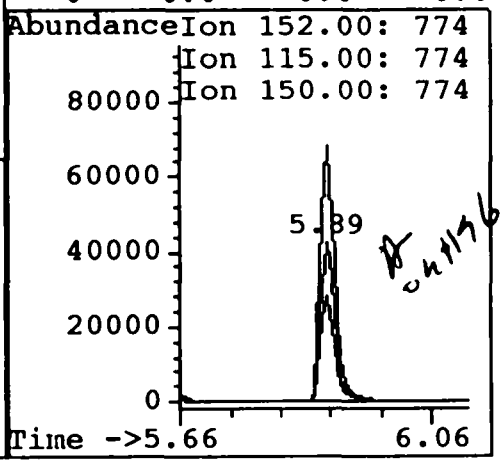
(#) = qualifier out of range

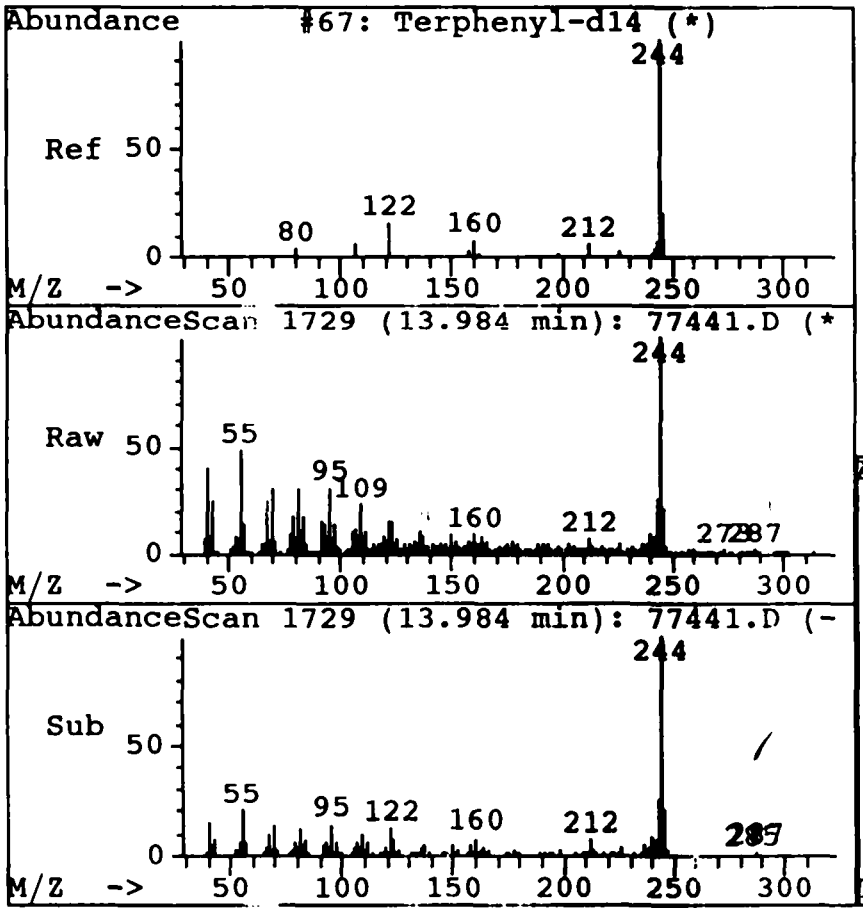


#10 Inst: HP6 **000270**
CS75 1,2-Dichlorobenzene-d4
Concen: 58.06 ug/mL m
RT: 5.89 min Scan# 615
Delta R.T. 0.01 min
Lab File: 77441.D
Acq: 5 Apr 96 17:01
FER40

Tgt Ion: 152 Area: 64489

Ion	Ratio	Lower	Upper
152	100		
115	0.0	0.0	0.0
150	0.0	0.0	0.0
0	0.0	0.0	0.0

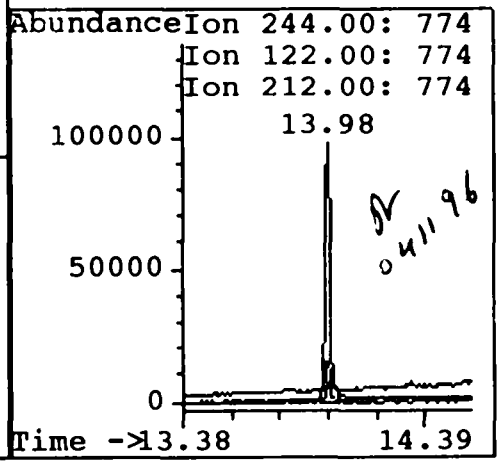


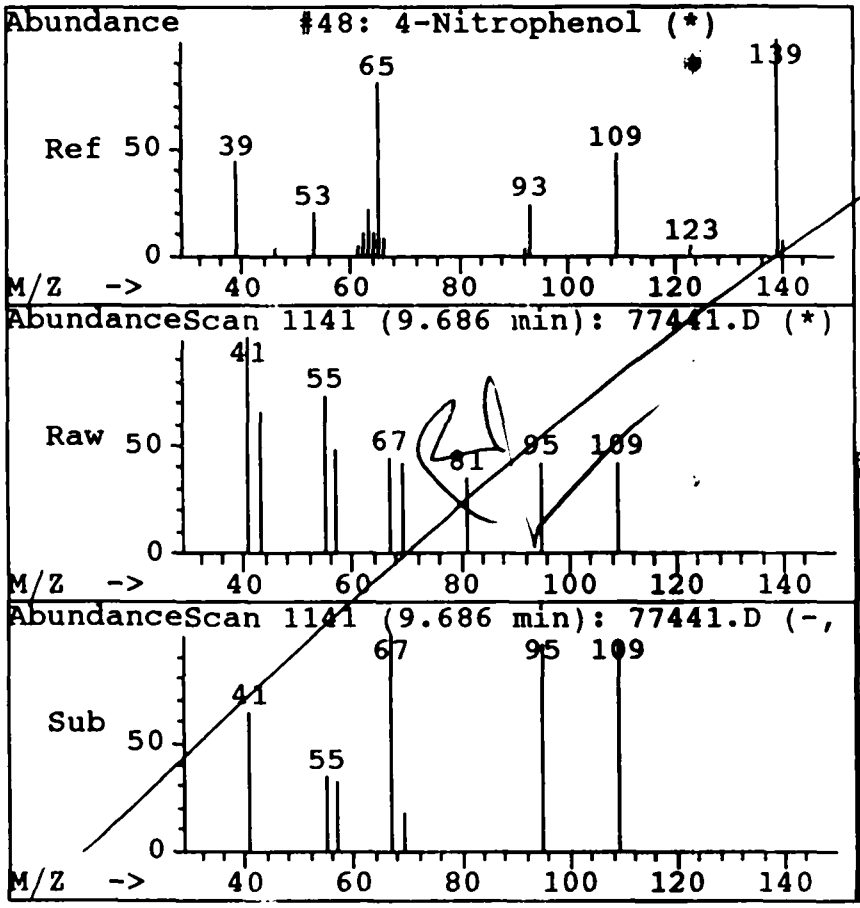


#64 Inst: HP6
CS30 Terphenyl-d14
Concen: 60.91 ug/mL m
RT: 13.98 min Scan# 1729
Delta R.T. 0.03 min
Lab File: 77441.D
Acq: 5 Apr 96 17:01
FER40

Tgt Ion: 244 Area: 143529

Ion	Ratio	Lower	Upper
244	100		
122	3.7	0.0	35.1
212	0.2	0.0	25.4
0	0.0	0.0	0.0

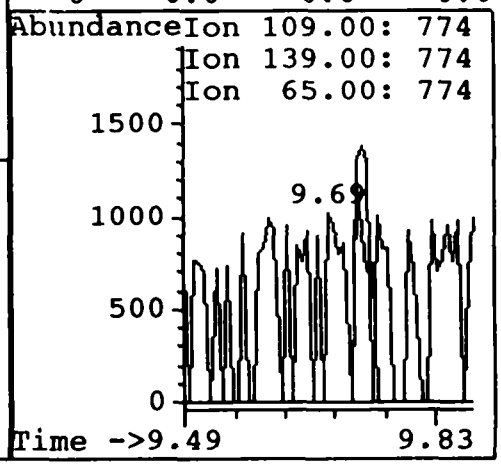


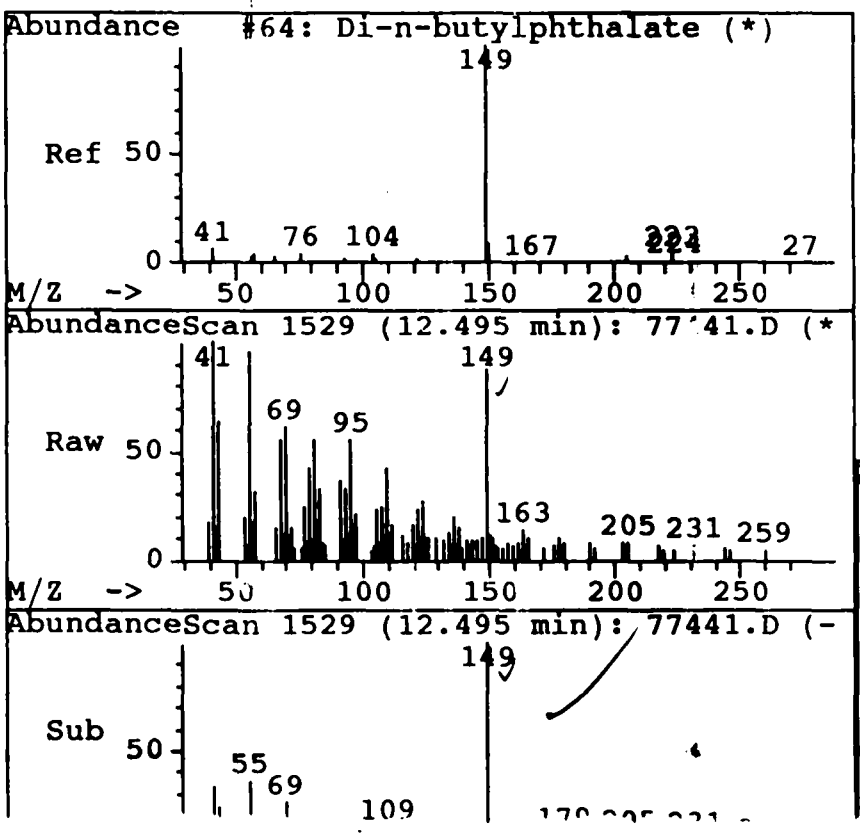


#45 Inst: HP6
C560 4-Nitrophenol
Concen: 27.71 ug/mL
RT: 9.69 min Scan# 1141
Delta R.T. 0.05 min
Lab File: 77441.D
Acq: 5 Apr 96 17:01
FER40

Tgt Ion: 109 Area: 5370

Ion	Ratio	Lower	Upper
109	100		
139	0.0	95.0	135.0#
65	0.0	90.0	130.0#
0	0.0	0.0	0.0

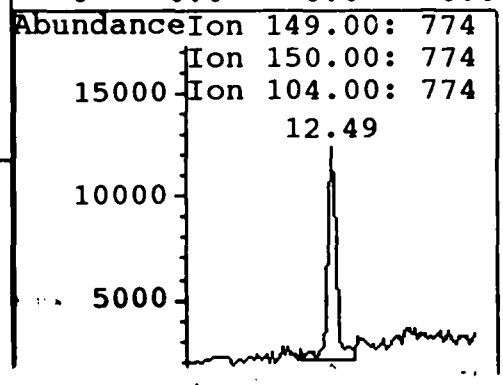


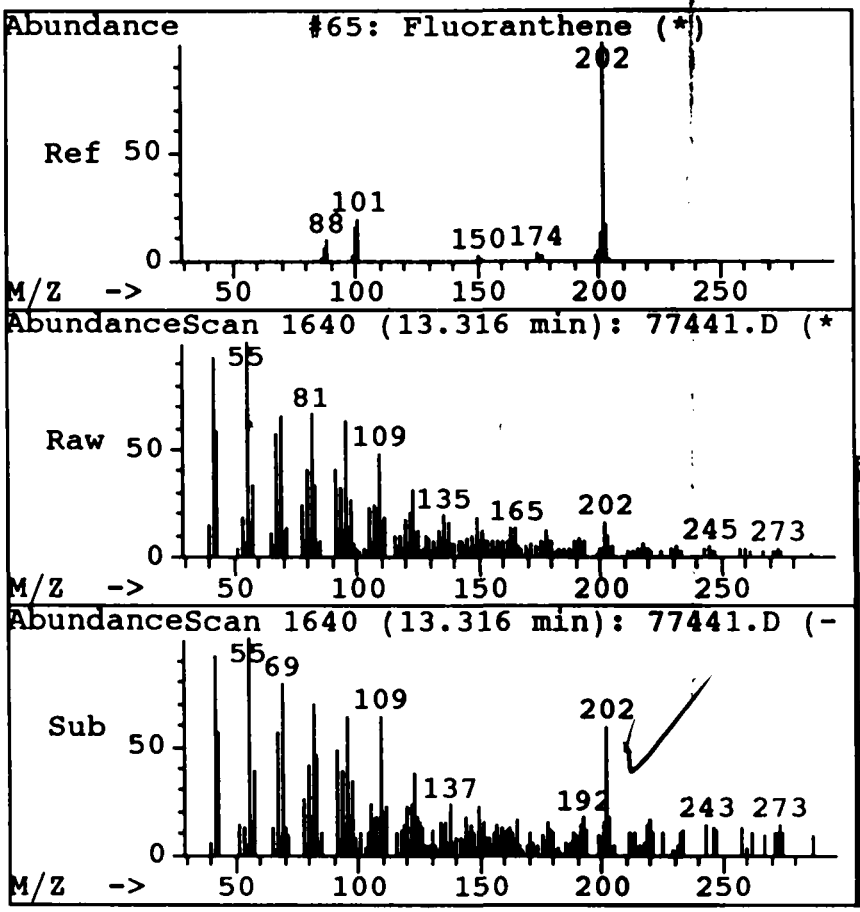


#61 Inst: HP6
C650 Di-n-butylphthalate
Concen: 4.29 ug/mL
RT: 12.49 min Scan# 1529
Delta R.T. 0.01 min
Lab File: 77441.D
Acq: 5 Apr 96 17:01
FER40

Tgt Ion: 149 Area: 14490

Ion	Ratio	Lower	Upper
149	100		
150	0.0	0.0	28.6
104	8.5	0.0	24.0
0	0.0	0.0	0.0

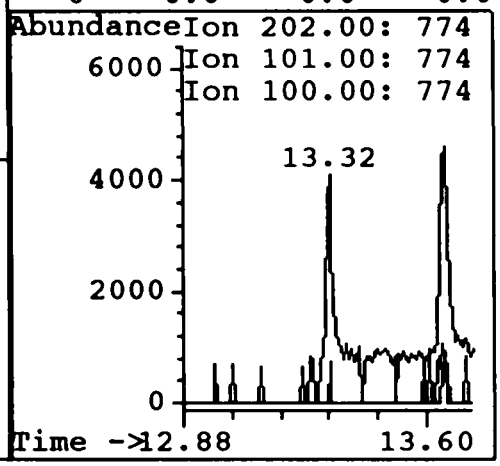


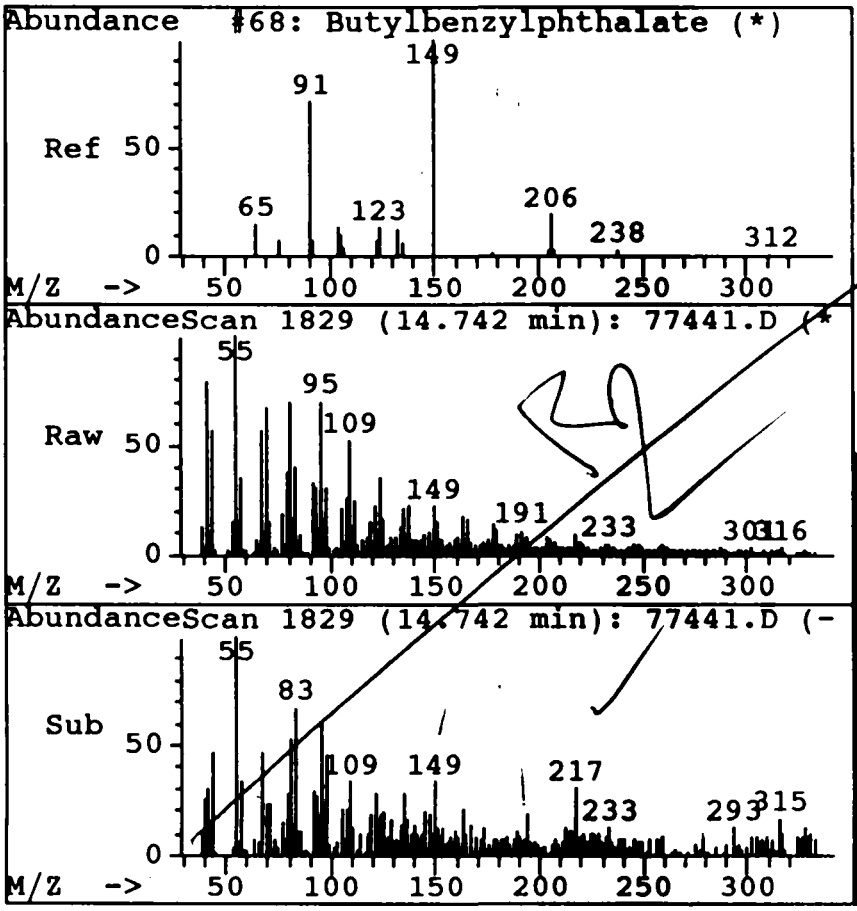


#62 Inst: HP6
C655 Fluoranthene
Concen: 8.94 ug/mL
RT: 13.32 min Scan# 1640
Delta R.T. 0.03 min
Lab File: 77441.D
Acq: 5 Apr 96 17:01
FER40

Tgt Ion: 202 Area: 21377

Ion	Ratio	Lower	Upper
202	100		
101	1.5	0.0	39.0
100	1.3	0.0	25.0
0	0.0	0.0	0.0

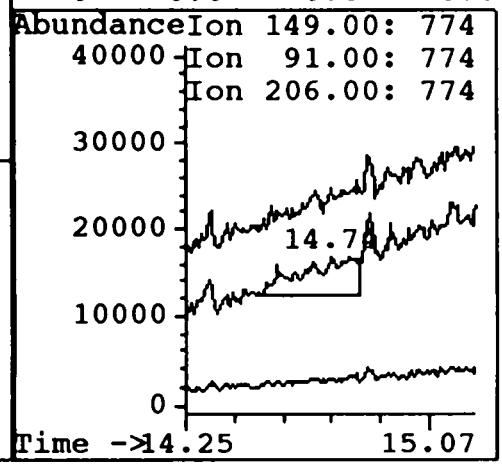


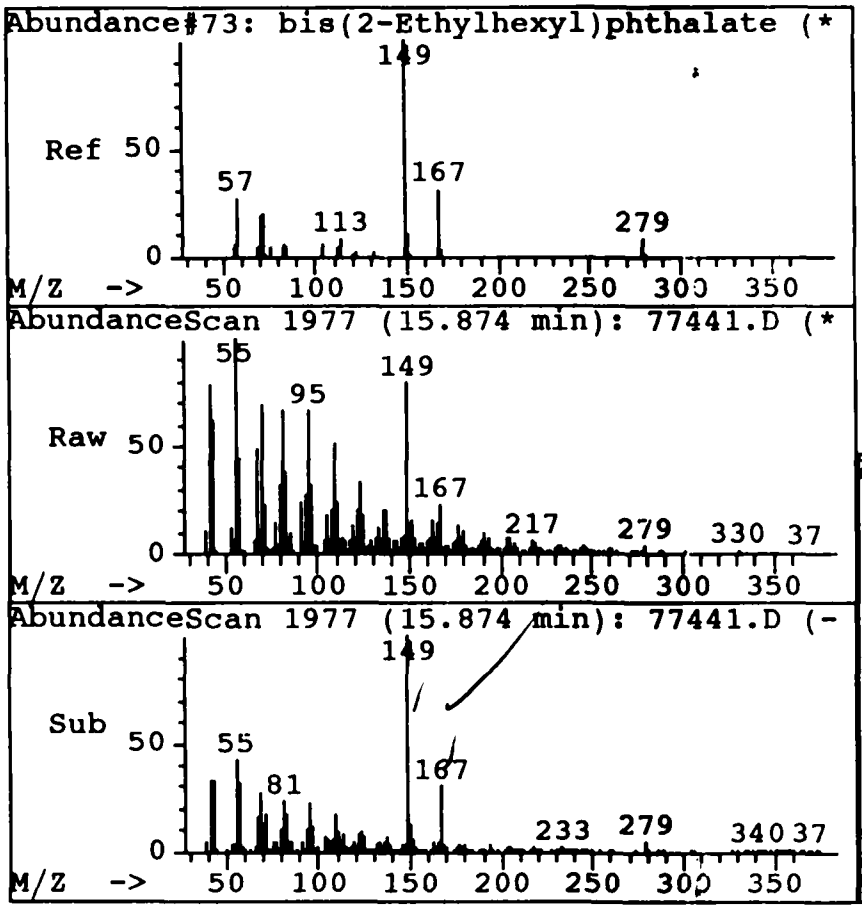


#65 Inst: HP6
C720 Butylbenzylphthalate
Concen: 25.99 ug/mL
RT: 14.74 min Scan# 1829
Delta R.T. -0.08 min
Lab File: 77441.D
Acq: 5 Apr 96 17:01
FER40

Tgt Ion: 149 Area: 52631

Ion	Ratio	Lower	Upper
149	100		
91	0.0	53.2	93.2#
206	0.0	0.0	39.5
0	0.0	0.0	0.0

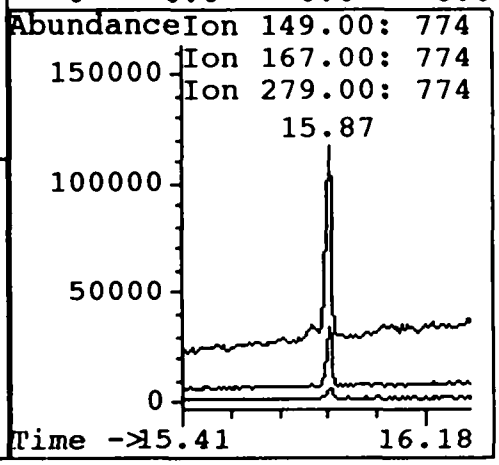


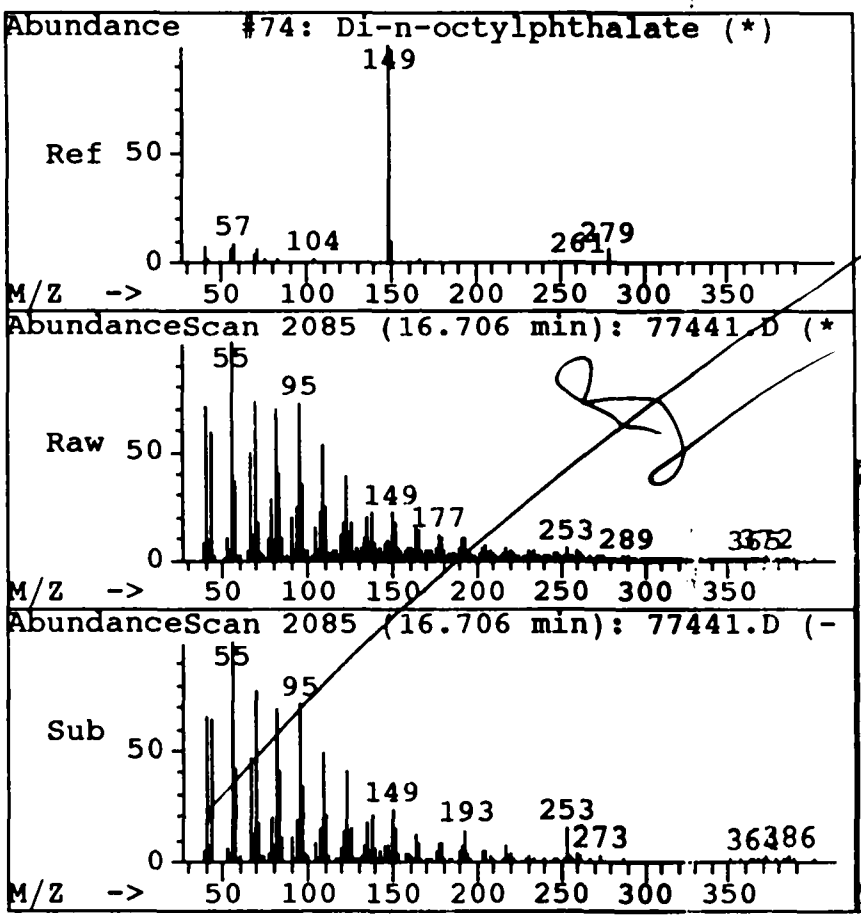


#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 136.08 ug/mL
RT: 15.87 min Scan# 1977
Delta R.T. 0.07 min
Lab File: 77441.D
Acq: 5 Apr 96 17:01
FER40

Tgt Ion: 149 Area: 373237

Ion	Ratio	Lower	Upper
149	100		
167	15.2	13.5	53.5
279	2.9	0.0	29.5
0	0.0	0.0	0.0

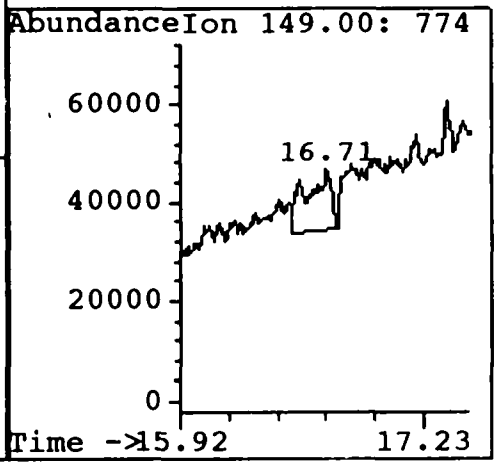




#71 Inst: HP6
C760 Di-n-octylphthalate
Concen: 38.40 ug/mL
RT: 16.71 min Scan# 2085
Delta R.T. -0.01 min
Lab File: 77441.D
Acq: 5 Apr 96 17:01
FER40

Tgt Ion: 149 Area: 111603

Ion	Ratio	Lower	Upper
149	100		
0	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

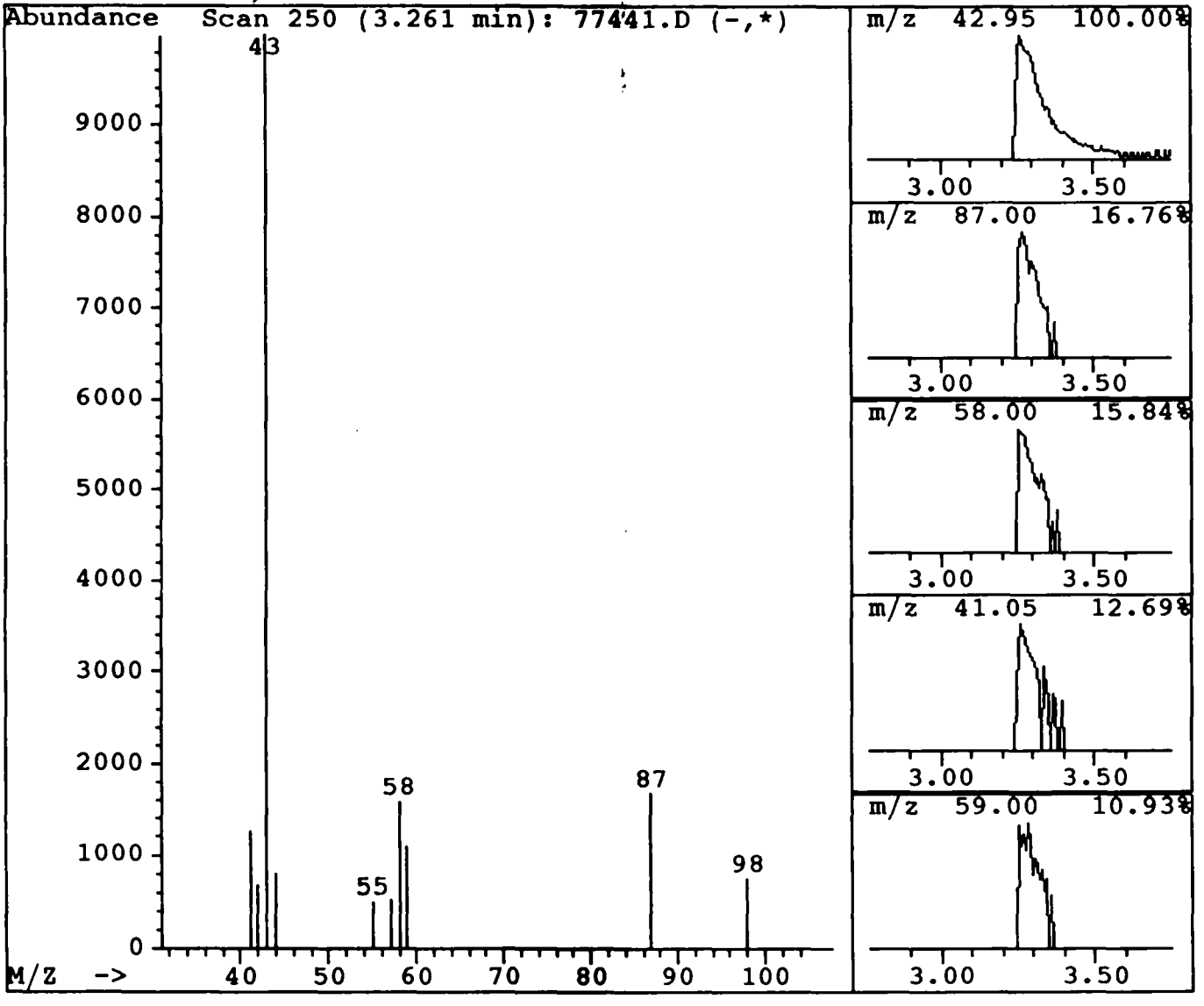
Operator ID: AK Date Acquired: 5 Apr 96 17:01
Data File: C:\CHEMPC\DATA\040596\77441.D
Name: FER40 EXT033096
Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 11 13:34:37 1996

000274

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.26	17.96 ug/mL	148177	C130 1,4-Dichlorobenzene-	329990

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

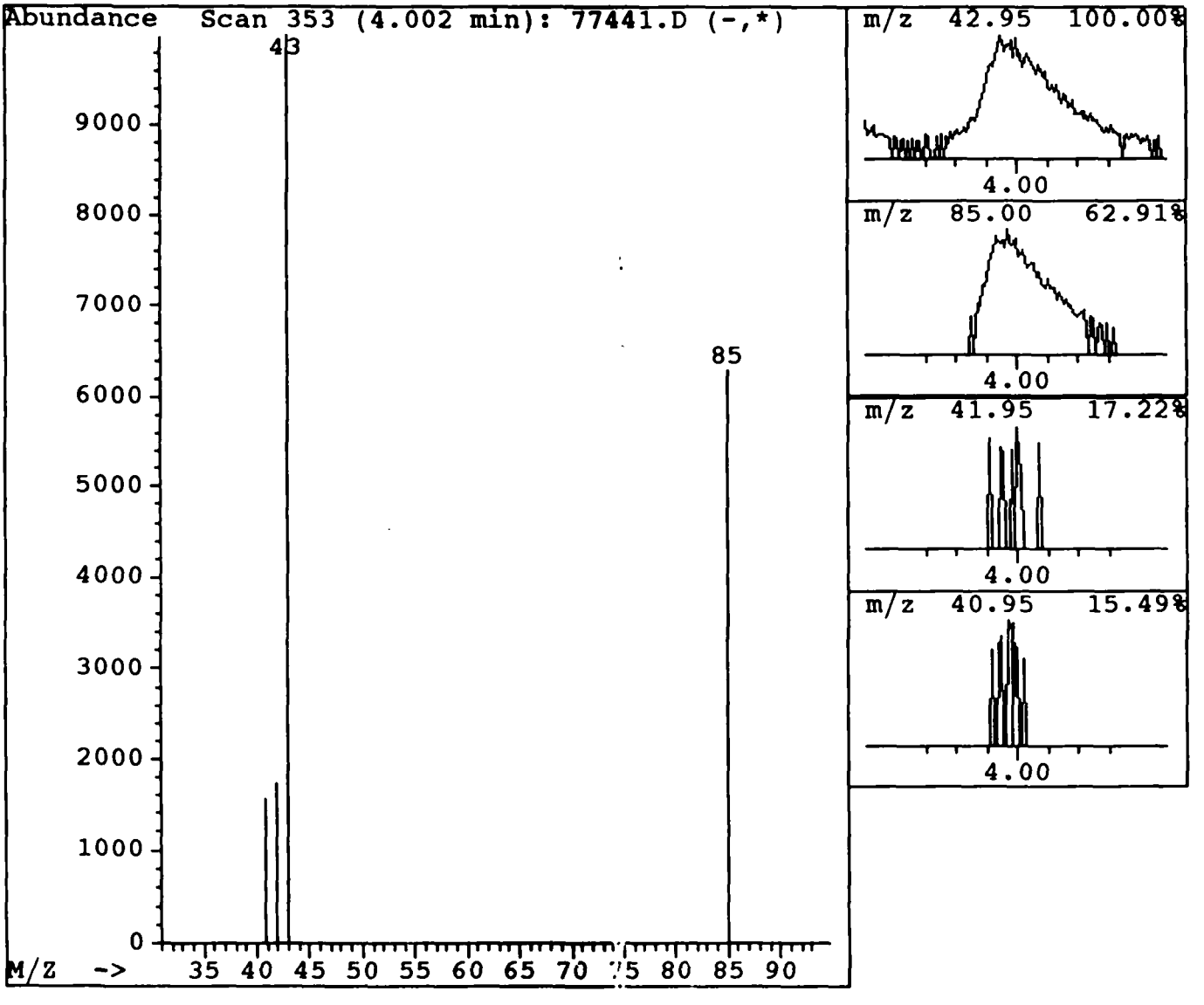
000275

Operator ID: AK Date Acquired: 5 Apr 96 17:01
Data File: C:\CHEMPC\DATA\040596\77441.D
Name: FER40 EXT033096
Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 11 13:34:37 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.00	18.07 ug/mL	149098	CI30 1,4-Dichlorobenzene-	329990

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

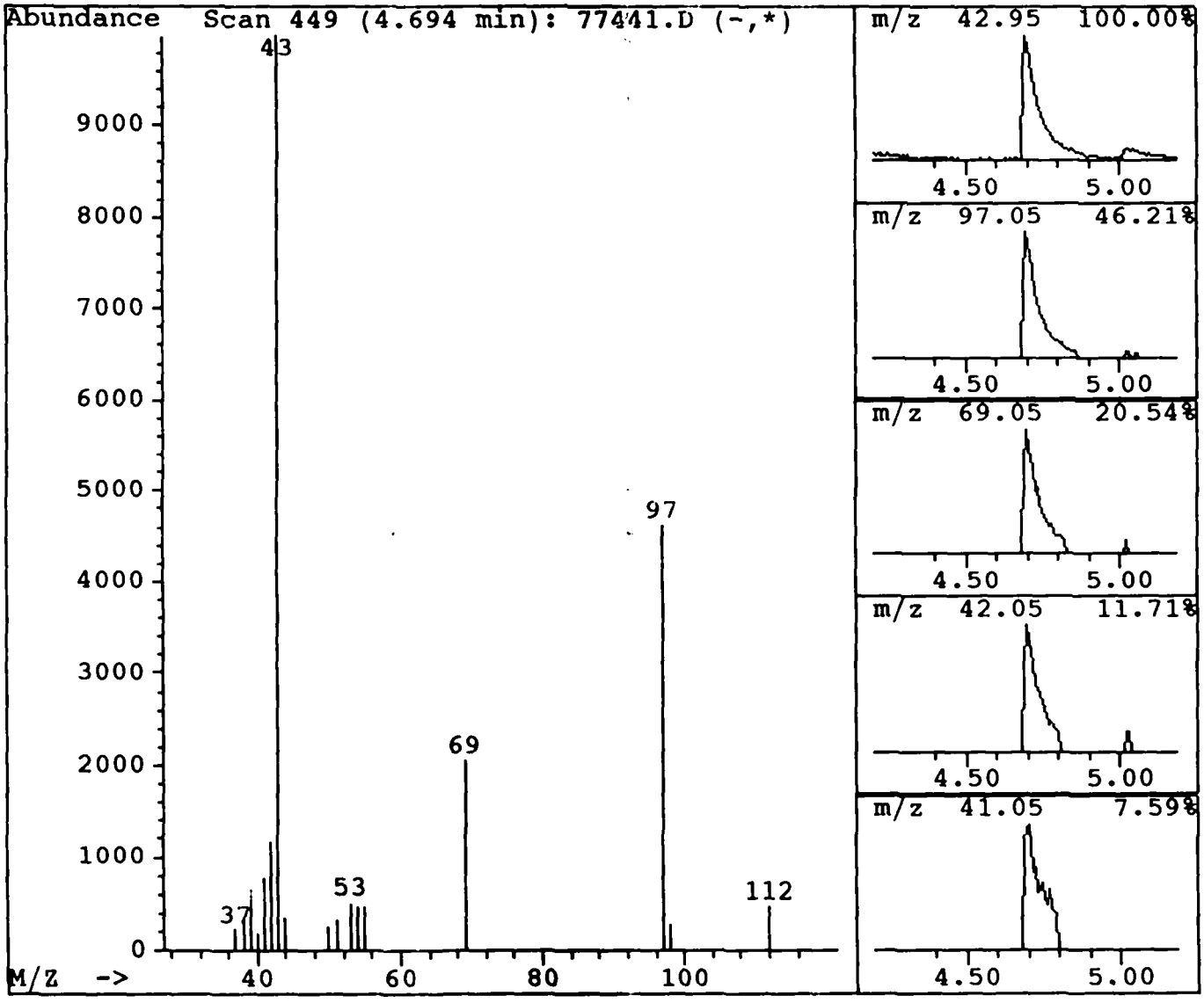
000276

Operator ID: AK Date Acquired: 5 Apr 96 17:01
Data File: C:\CHEMPC\DATA\040596\77441.D
Name: FER40 EXTC33096
Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 11 13:34:37 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.69	36.87 ug/mL	304199	CI30 1,4-Dichlorobenzene-	329990

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



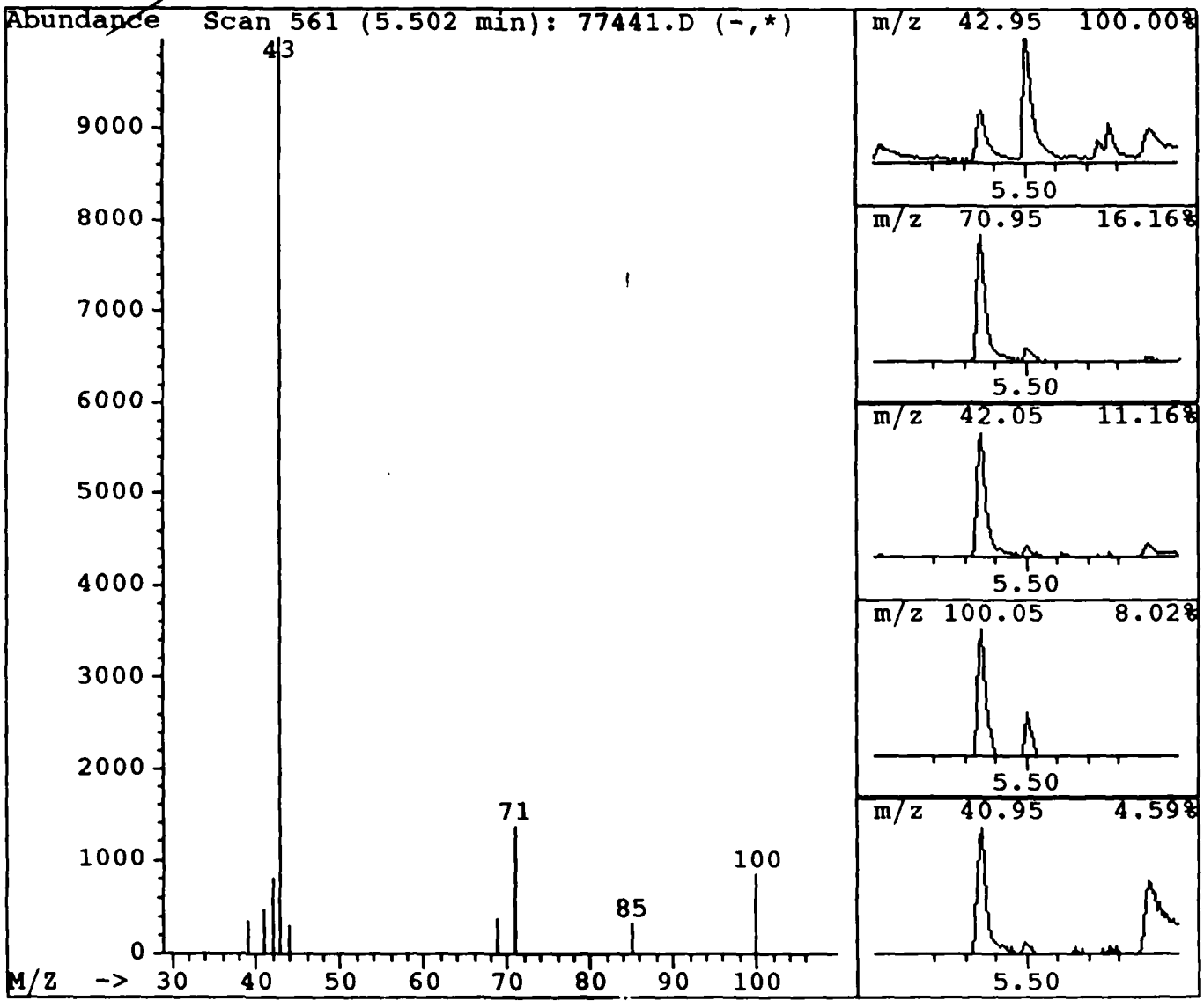
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 17:01
Data File: C:\CHEMPC\DATA\040596\77441.D
Name: FER40 EXT033096
Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS51
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 11 13:34:37 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.50	8.01 ug/mL	66078	CI30 1,4-Dichlorobenzene-	329990

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 17:01

000278

Data File: C:\CHEMPC\DATA\040596\77441.D

Name: FER40 EXT033096

Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

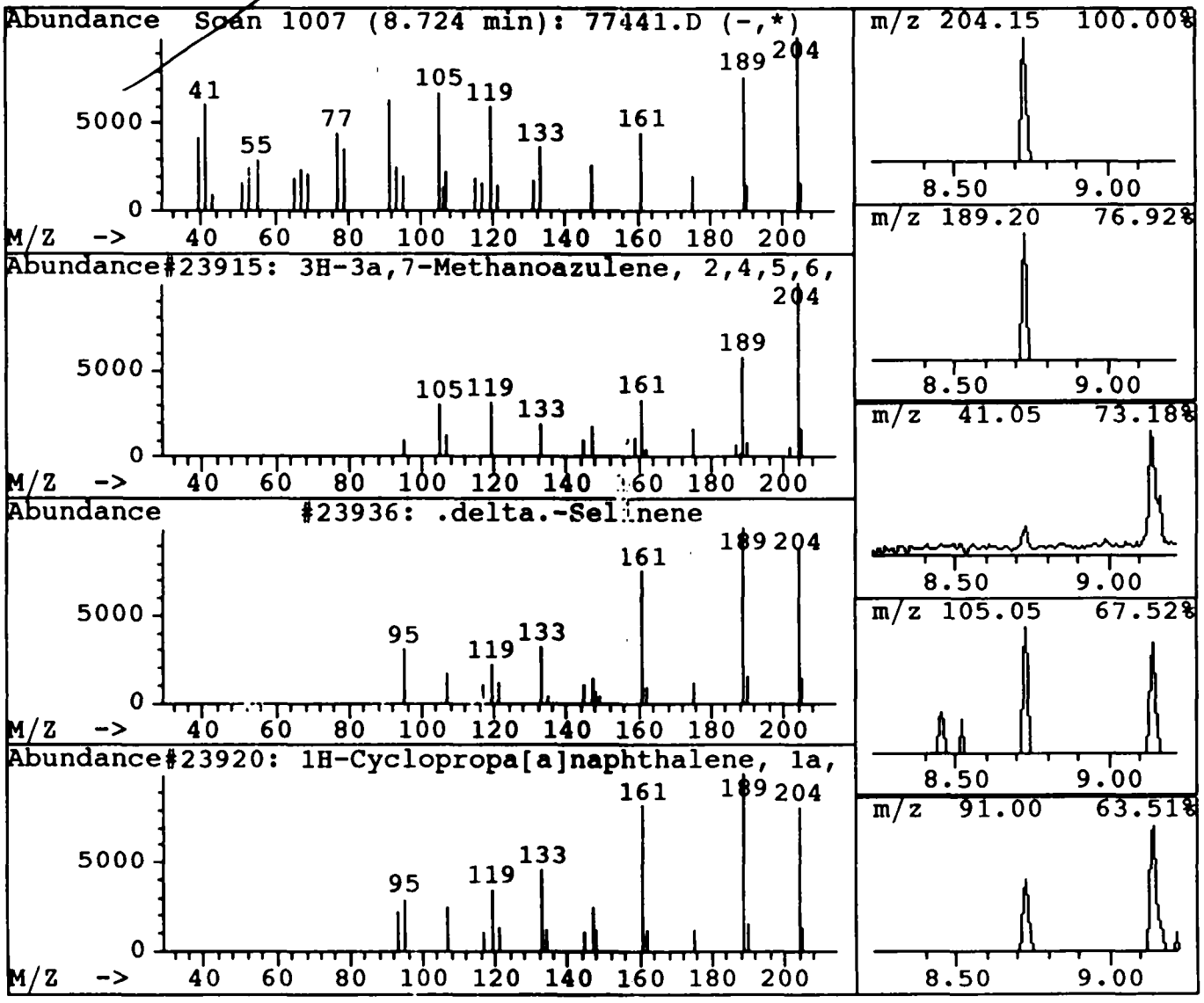
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 11 13:34:37 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.72	7.14 ug/mL	57001	CI50 Acenaphthene-d10	319556

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3H-3a,7-Methanoazulene, 2,4,5,6,7,8	23915	002387-78-2	95
2	.delta.-Selinene	23936	028624-23-9	70
3	1H-Cyclopropa[a]naphthalene, 1a,2,3	23920	000489-29-2	70
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	23968	000489-40-7	70
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	69951	000489-40-7	64



Tentatively Identified Compound (LSC)

Operator ID: AY Date Acquired: 5 Apr 96 17:01

000279

Data File: C:\CHEMPC\DATA\040596\77441.D

Name: FER40 EXT033096

Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

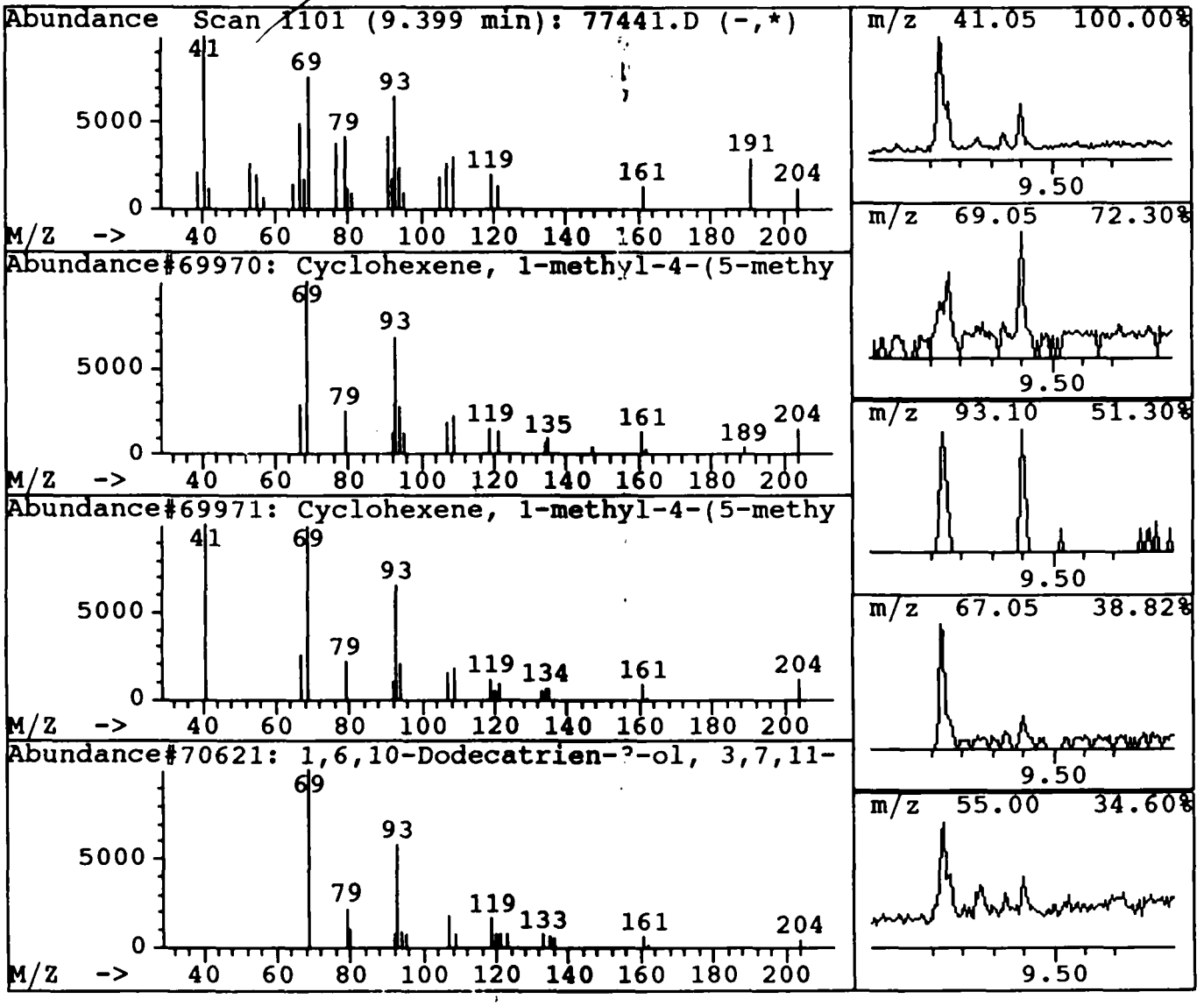
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 11 13:34:37 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.40	7.02 ug/mL	56076	CI50 Acenaphthene-d10	319556

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexene, 1-methyl-4-(5-methyl-1	69970	000495-61-4	58
2	Cyclohexene, 1-methyl-4-(5-methyl-1	69971	000495-61-4	52
3	1,6,10-Dodecatrien-3-ol, 3,7,11-tri	70621	007212-44-4	47
4	1,6,10-Dodecatrien-3-ol, 3,7,11-tri	28213	040716-66-3	47
5	1,6,10-Dodecatrien-3-ol, 3,7,11-tri	28230	000142-50-7	43



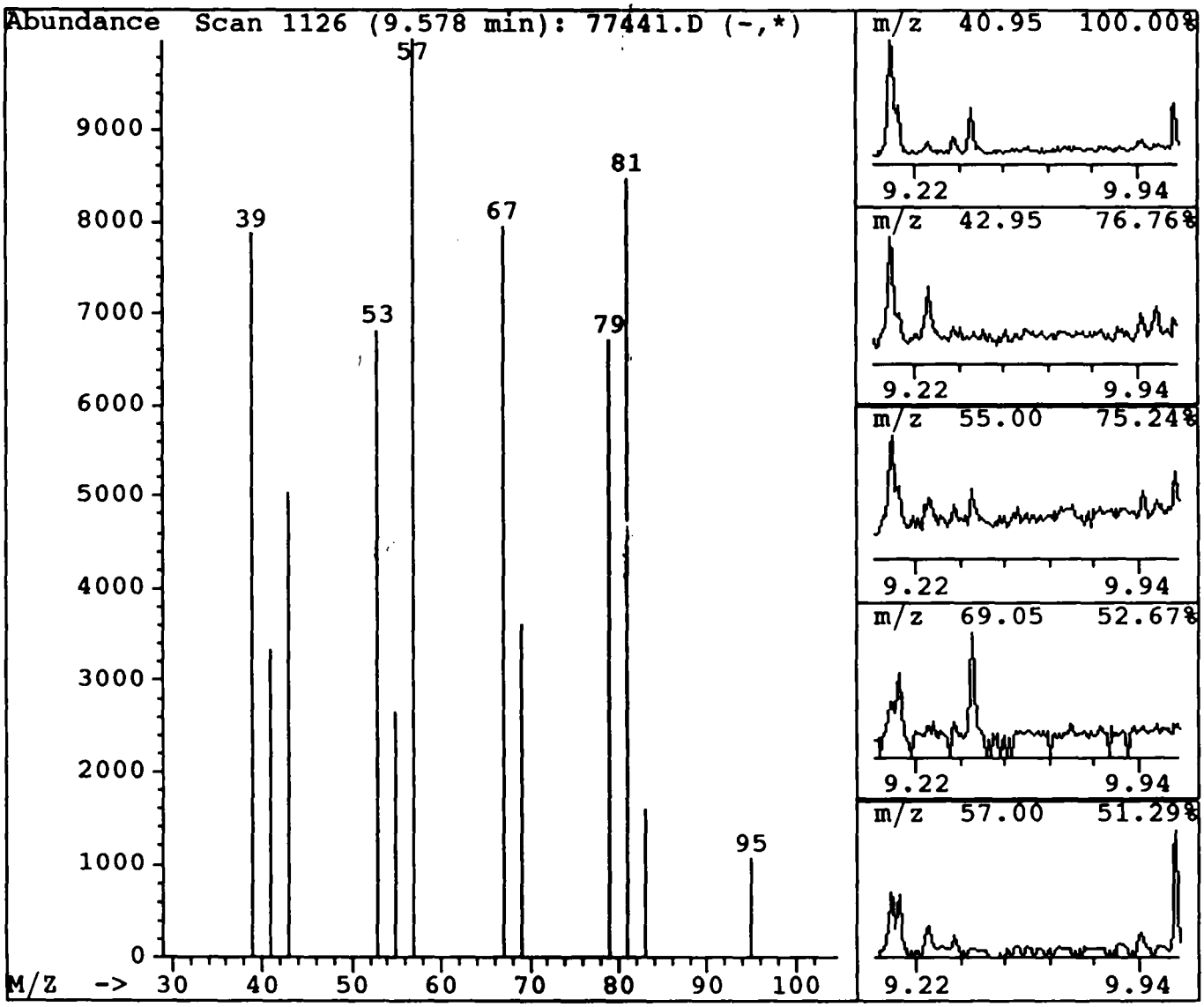
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 17:01 000280
Data File: C:\CHEMPC\DATA\040596\77441.D
Name: FER40 EXT033096
Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP5
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 11 13:34:37 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.58	5.21 ng/mL	41657	CI50 Acenaphthene-d10	319556

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 17:01

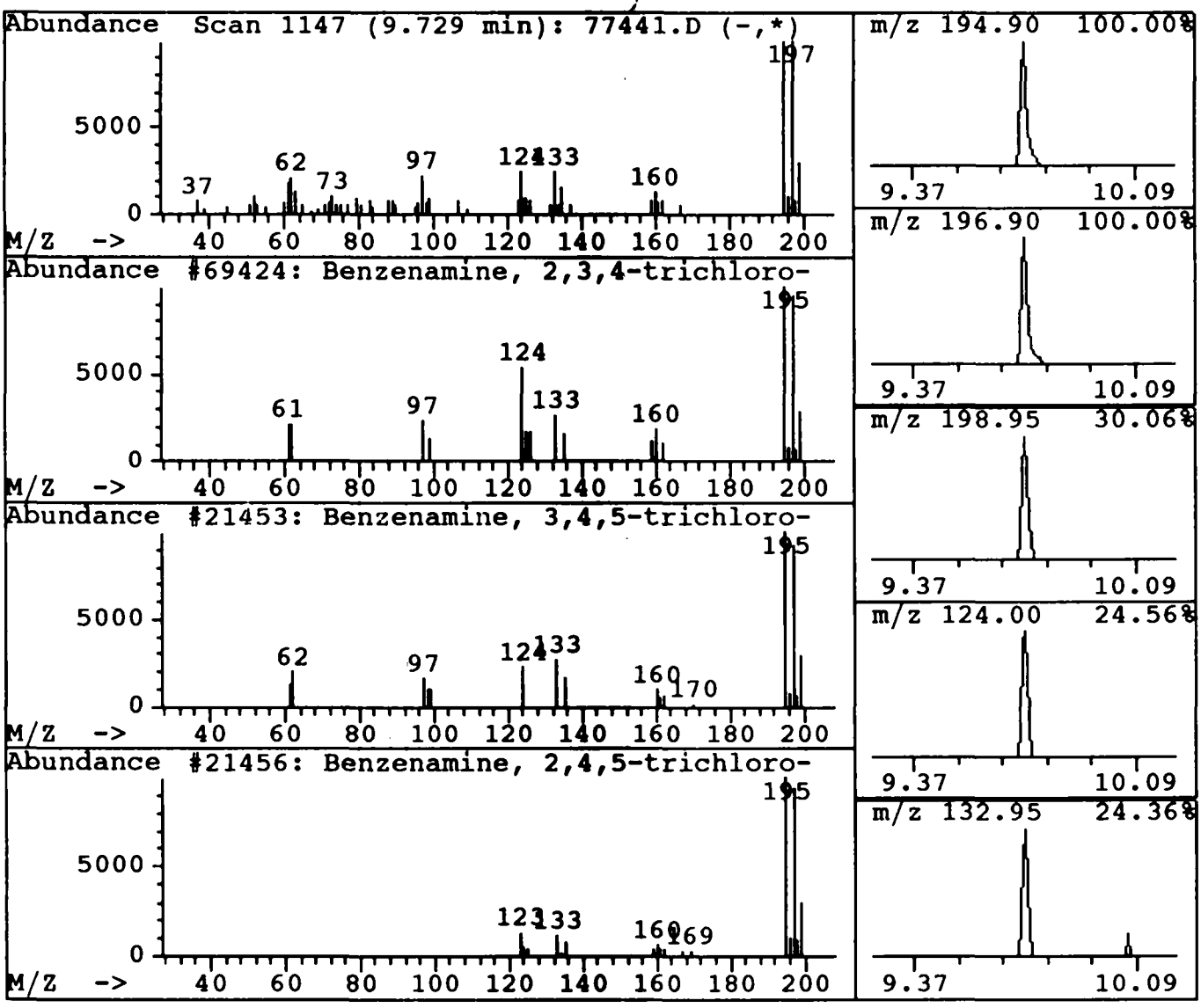
000281

Data File: C:\CHEMPC\DATA\040596\77441.D
Name: FER40 EXT033096
Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 11 13:34:37 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.73	20.07 ug/mL	160360	CI50 Acenaphthene-d10	319556

Hit# of 14	Tentative ID	Ref#	CAS#	Qual
1	Benzenamine, 2,3,4-trichloro-	69424	000634-67-3	97
2	Benzenamine, 3,4,5-trichloro-	21453	000634-91-3	95
3	Benzenamine, 2,4,5-trichloro-	21456	000636-30-6	91
4	Benzenamine, 2,4,6-trichloro-	69427	000634-93-5	87
5	Benzenamine, 2,3,4-trichloro-	21454	000634-67-3	70



Tentatively Identified Compound (LSC)

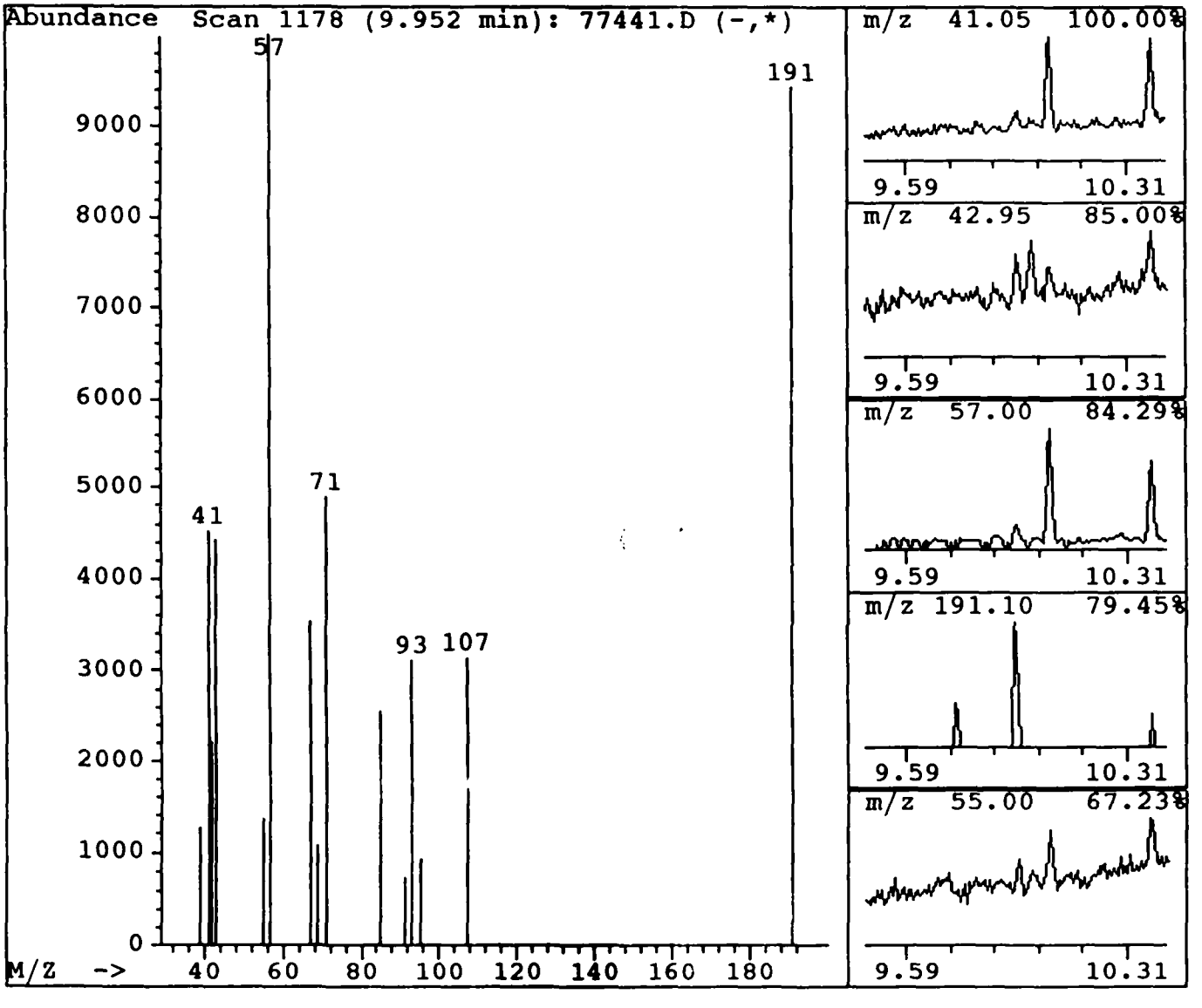
000282

Operator ID: AK Date Acquired: 5 Apr 96 17:01
Data File: C:\CHEMPC\DATA\040596\77441.D
Name: FER40 EXT033096
Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP5
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 11 13:34:37 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.95	5.07 ug/mL	40530	CI50 Acenaphthene-d10	319556

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 17:01

Data File: C:\CHEMPC\DATA\040596\77441.D

000283

Name: FER40 EXT033096

Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

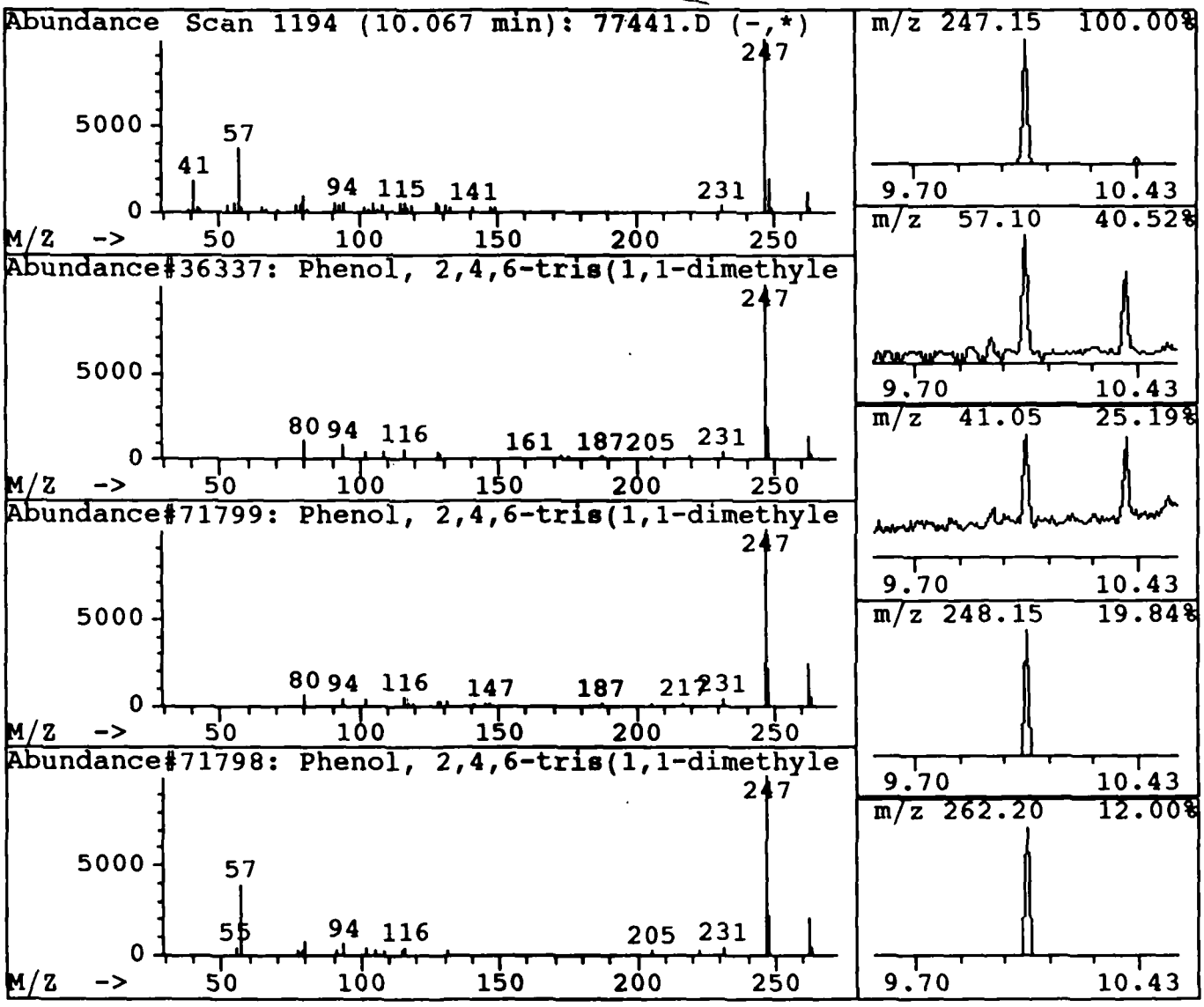
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 11 13:34:37 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.07	15.51 ug/mL	123888	CI50 Acenaphthene-d10	319556

Hit# of 7	Tentative ID	Ref#	CAS#	Qual
1	Phenol, 2,4,6-tris(1,1-dimethylethy	36337	000732-26-3	91
2	Phenol, 2,4,6-tris(1,1-dimethylethy	71799	000732-26-3	91
3	Phenol, 2,4,6-tris(1,1-dimethylethy	71798	000732-26-3	90
4	Phenol, 2,4,6-tris(1,1-dimethylethy	71801	000732-26-3	87
5	2-Amino-4,6-diphenylpyrimidine	33271	040230-24-8	45



Tentatively Identified Compound (LSC)

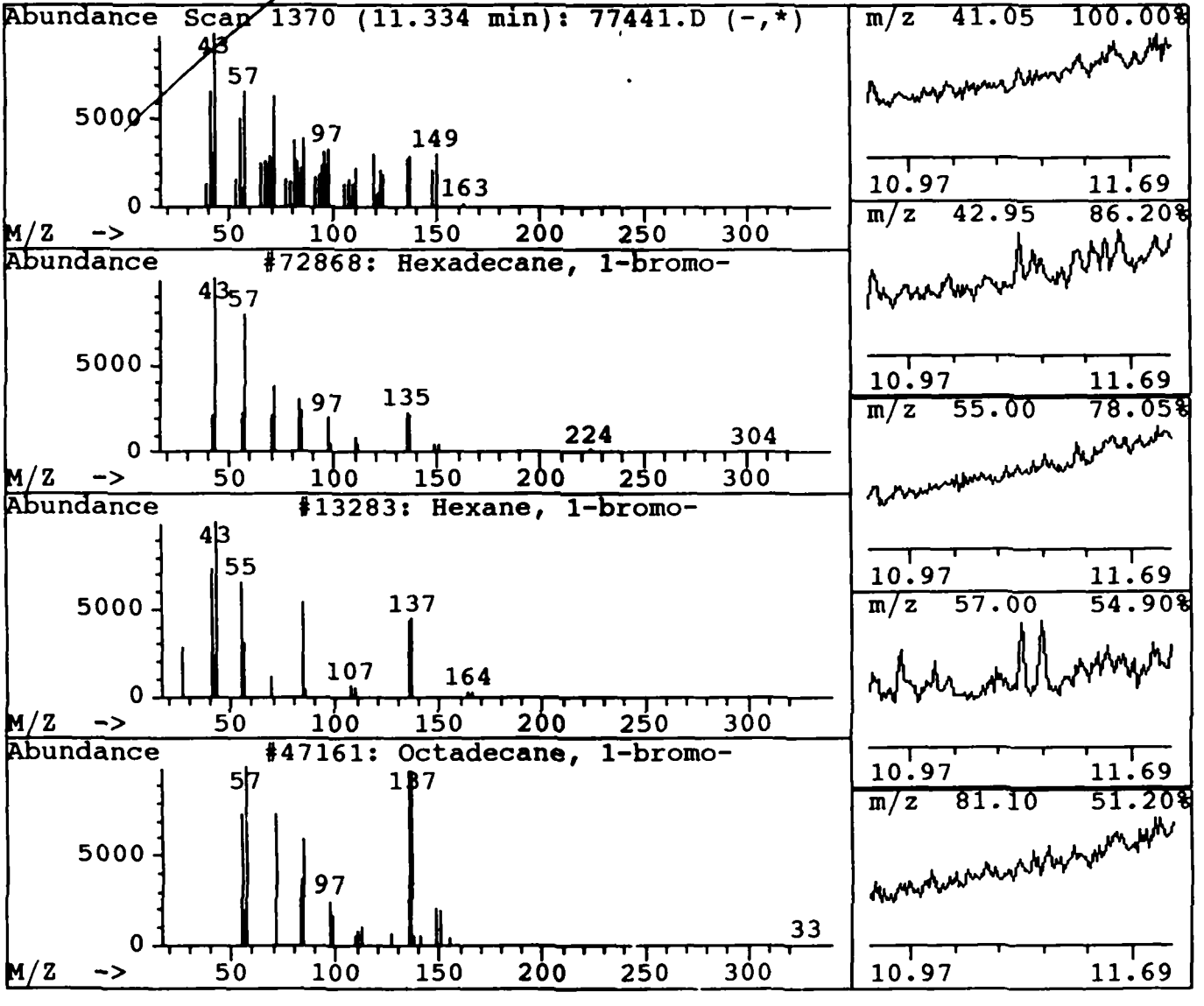
Operator ID: AK Date Acquired: 5 Apr 96 17:01
Data File: C:\CHEMPC\DATA\040596\77441.D
Name: FER40 EXT033096
Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 11 13:34:37 1996

000284

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.33	11.05 ug/mL	436668	CI60 Phenanthrene-d10	1581392

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecane, 1-bromo-	72868	000112-82-3	32
2	Hexane, 1-bromo-	13283	000111-25-1	22
3	Octadecane, 1-bromo-	47161	000112-89-0	16
4	2-Ethyl-1-dodecanol	26412	000000-00-0	12
5	Dodecane, 1-bromo-	71398	000143-15-7	10



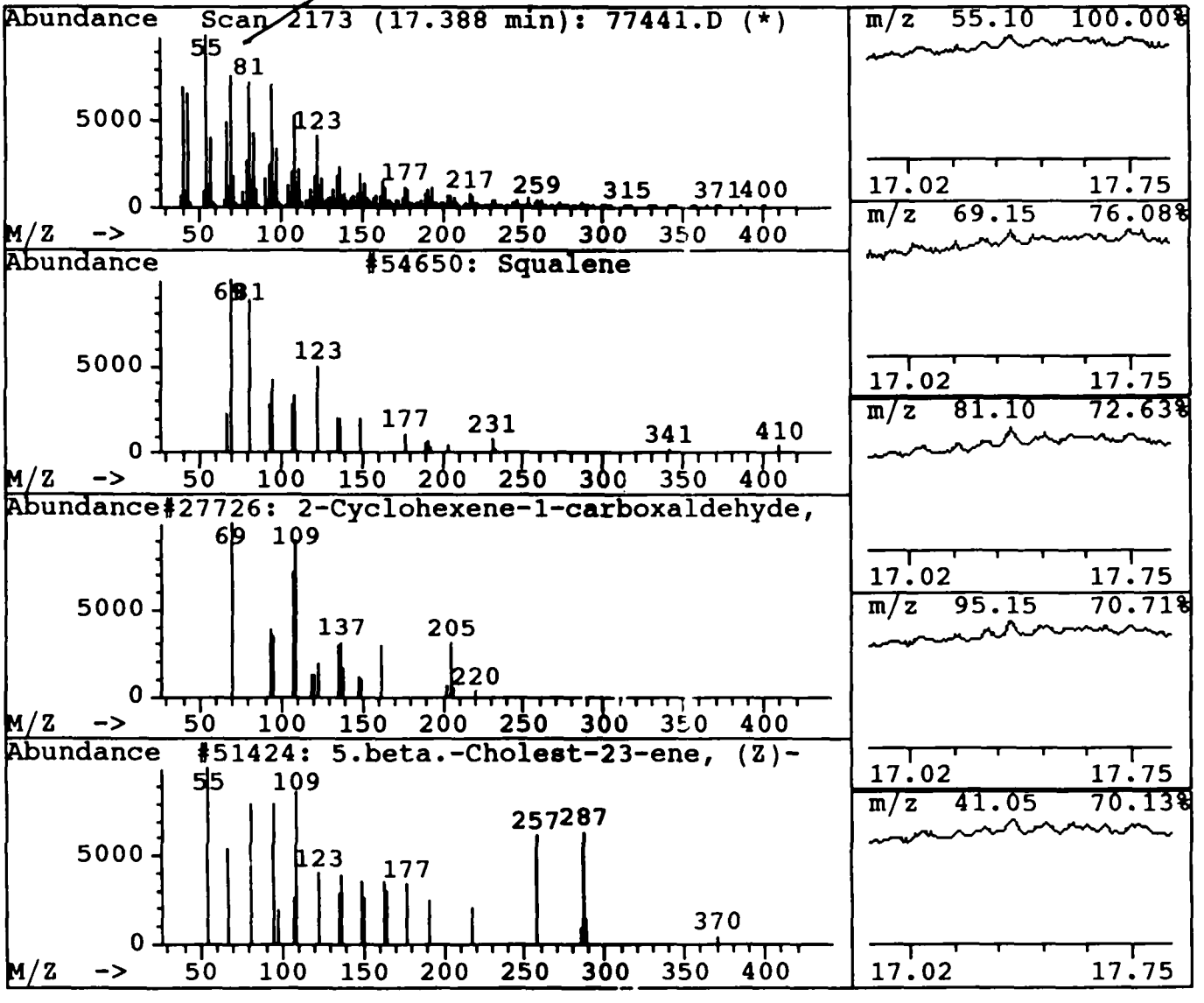
Tentatively Identified Compound (LSC) 000285

Operator ID: AK Date Acquired: 5 Apr 96 17:01
Data File: C:\CHEMPC\DATA\040596\77441.D
Name: FER40 EXT033096
Misc: HP6*USEPA*15427.04*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 11 13:06:09 19 6

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
~~11.41~~ 17.39	~~40.00~~ 19,338.55 ug/mL	~~1581392~~ 764547227	CI60 Phenanthrene-d10	~~109305~~ 1581392

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Squalene	54650	007683-64-9	49
2	2-Cyclohexene-1-carboxaldehyde, 2,6	27726	056772-07-7	45
3	5.beta.-Cholest-23-ene, (Z)-	51424	014949-12-3	45
4	1H-Indene, 2-butyl-5-hexyloctahydro	36685	055044-33-2	45
5	Tricyclo[4.3.0.07,9]nonane, 2,2,5,5	24461	054832-82-5	43



1F 000288 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FER41

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542705

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77442

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/6/96

GPC Cleanup: (Y/N) Y pH: 7.6

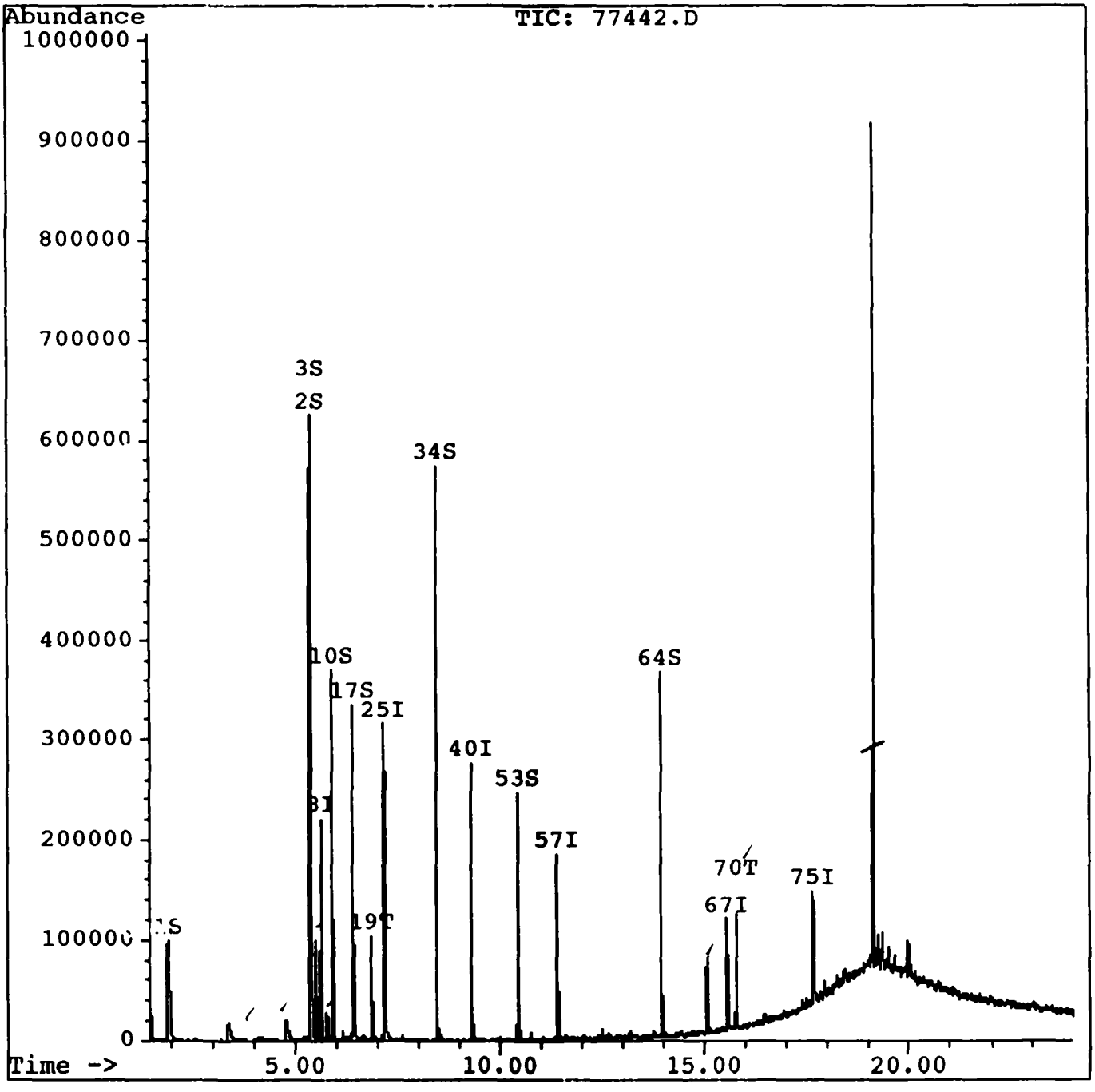
Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.38	200	ABJ
2.		Aldol condensation	4.77	170	ABJ
3.		Aldol condensation	5.50	320	ABJ
4.		Aldol condensation	5.77	110	AJ
5.		Unknown	13.78	140	J
6.		Unknown	15.08	860	J

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 17:32
Data File: C:\CHEMPC\DATA\040596\77442.D
Name: FER41 EXT033096
Misc: HP6*USEPA*15427.05*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 17:32

000290

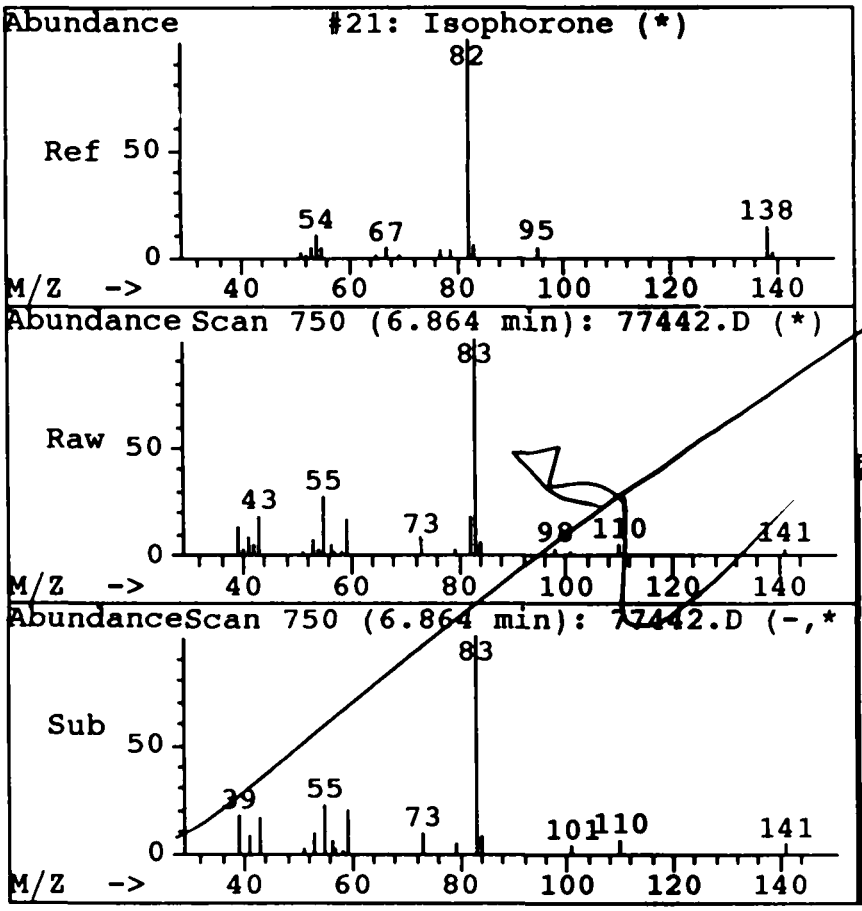
Data File: C:\CHEMPC\DATA\040596\77442.D
Name: FER41 EXT033096
Misc: HP6*USEPA*15427.05*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.64	152	54452	40.00	ug/mL	0.02
25) CI40 Naphthalene-d8	7.16	136	158548	40.00	ug/mL	0.01
40) CI50 Acenaphthene-d10	9.31	164	79457	40.00	ug/mL	0.02
57) CI60 Phenanthrene-d10	11.42	188	100772	40.00	ug/mL	0.02
67) CI70 Chrysene-d12	15.58	240	68489	40.00	ug/mL	0.02
75) CI75 Perylene-d12	17.70	264	79051	40.00	ug/mL	0.02
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.94	112	100969	102.51	ug/mL	68.34%
2) CS45 Phenol-d5	5.39	99	173441	97.56	ug/mL	65.04%
3) CS70 2-Chlorophenol-d4	5.38	132	165345	107.57	ug/mL	71.71%
10) CS75 1,2-Dichlorobenzene-d	5.90	152	74579	65.68	ug/mL	65.68%
17) CS20 Nitrobenzene-d5	6.41	82	131586	70.74	ug/mL	70.74%
34) CS25 2-Fluorobiphenyl	8.46	172	198634	74.34	ug/mL	74.34%
53) CS55 2,4,6-Tribromophenol	10.44	330	40986	113.20	ug/mL	75.47%
64) CS30 Terphenyl-d14	13.97	244	147514	99.91	ug/mL	99.91%
Target Compounds						ISTD#
~~19) C415 Isophorone~~	~~6.86~~	~~82~~	~~7874~~	~~2.91~~	~~ug/mL~~	002#
70) C745 bis(2-Ethylhexyl)phth	15.81	149	37764	21.97	ug/mL	005

HP FALSE POSITIVE

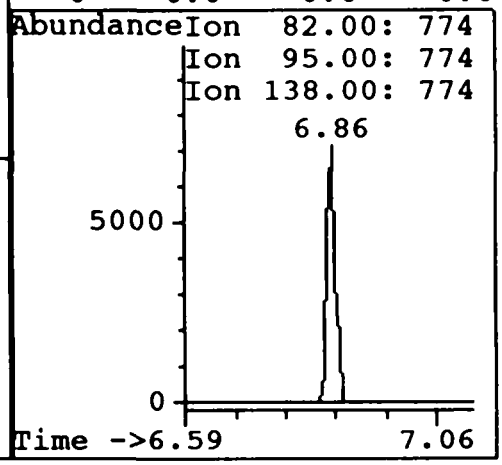
(#) = qualifier out of range

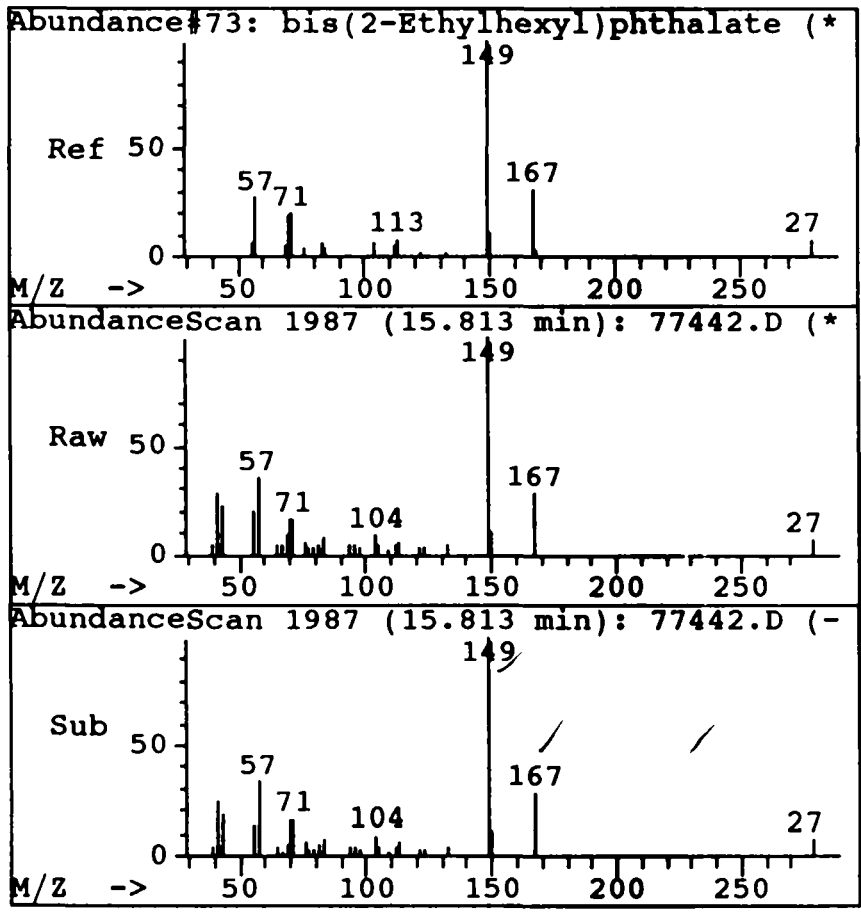


#19 Inst: HP6
C415 Isophorone
Concen: 2.91 ug/mL
RT: 6.86 min Scan# 750
Delta R.T. 0.18 min
Lab File: 77442.D
Acq: 5 Apr 96 17:32
FER41

Tgt Ion: 82 Area: 7874

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	0.0	0.0	35.2
0	0.0	0.0	0.0

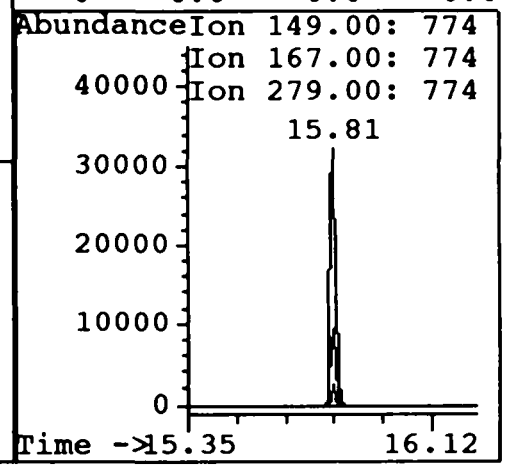




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 21.97 ug/mL
RT: 15.81 min Scan# 1987
Delta R.T. 0.01 min
Lab File: 77442.D
Acq: 5 Apr 96 17:32
FER41

Tgt Ion: 149 Area: 37764

Ion	Ratio	Lower	Upper
149	100		
167	27.6	13.5	53.5
279	5.7	0.0	29.5
0	0.0	0.0	0.0



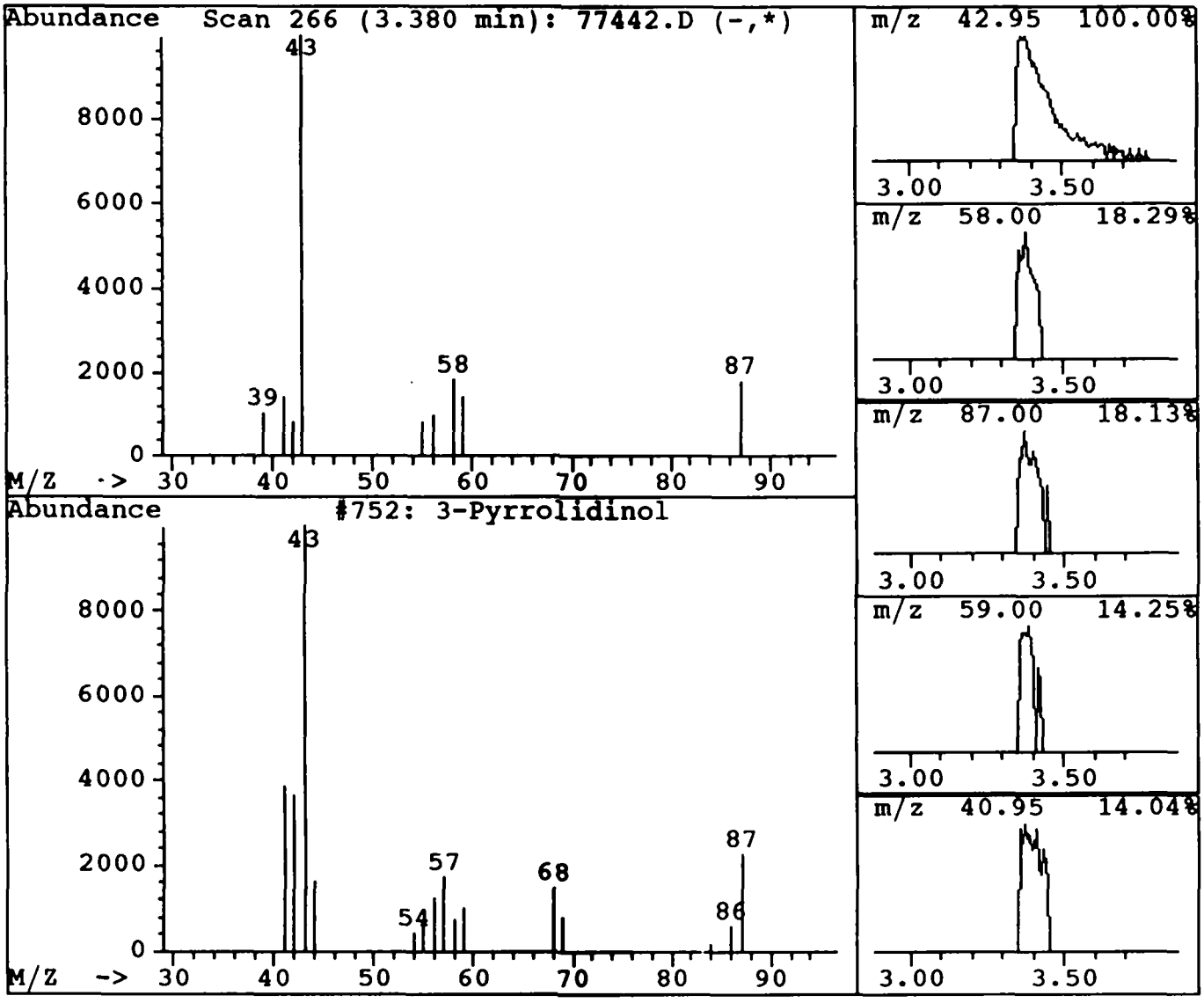
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 17:32
Data File: C:\CHEMPC\DATA\040596\77442.D
Name: FER41 EXT033096
Misc: HP6*USEPA*15427.05*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	10.19 ug/mL	91484	CI30 1,4-Dichlorobenzene-	359166

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	3-Pyrrolidinol	752	040499-83-0	64



Tentatively Identified Compound (LSC)

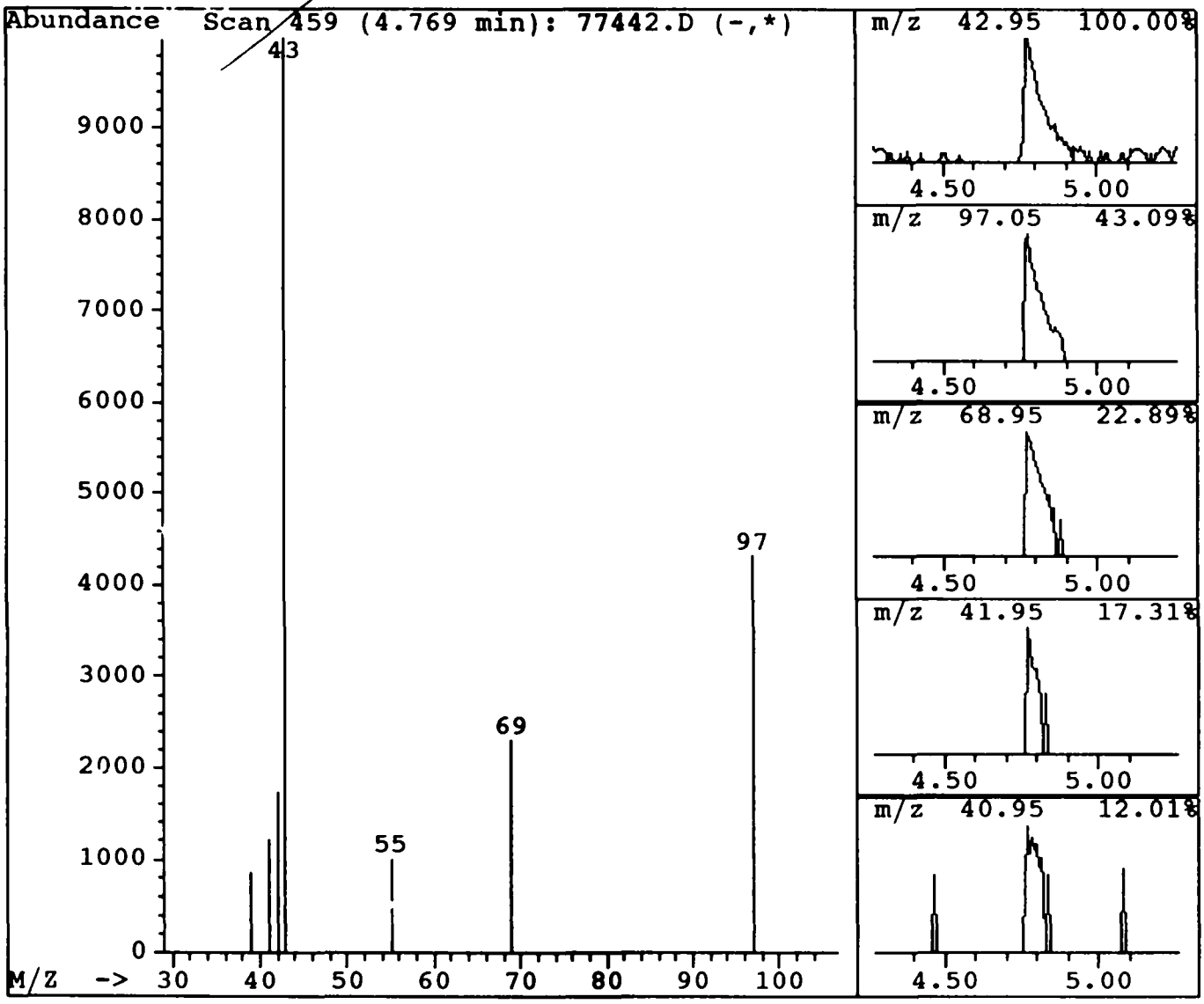
000293

Operator ID: AK Date Acquired: 5 Apr 96 17:32
Data File: C:\CHEMPC\DATA\040596\77442.D
Name: FER41 EXT033096
Misc: HP6*USEPA*15427.05*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	8.61 ug/mL	77352	CI30 1,4-Dichlorobenzene-	359166

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

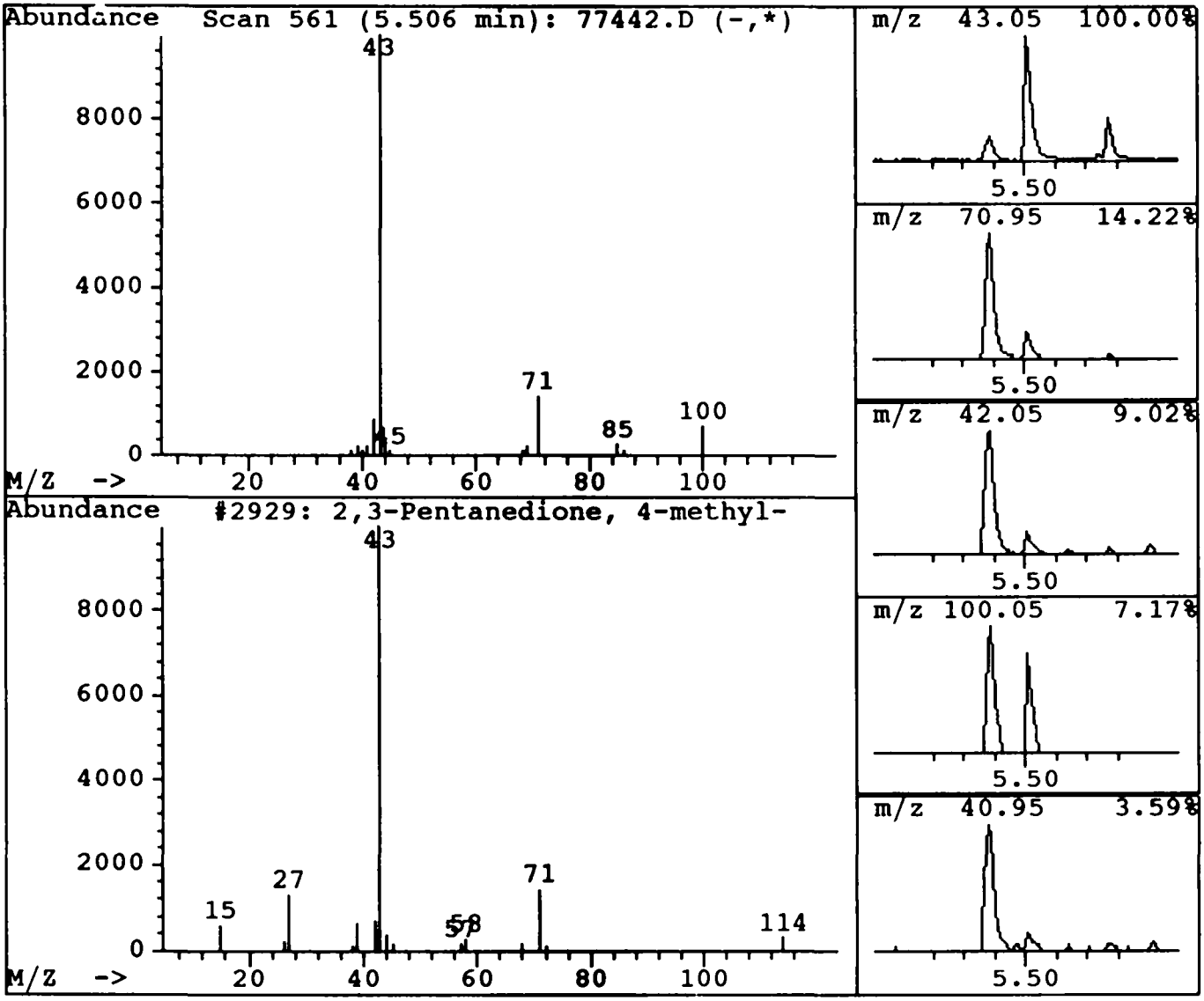
000294

Operator ID: AK Date Acquired: 5 Apr 96 17:32
Data File: C:\CHEMPC\DATA\040596\77442.D
Name: FER41 EXT033096
Misc: HP6*USEPA*15427.05*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	16.76 ug/mL	150471	CI30 1,4-Dichlorobenzene-	359166

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	2,3-Pentanedione, 4-methyl-	2929	007493-58-5	38



Tentatively Identified Compound (LSC)

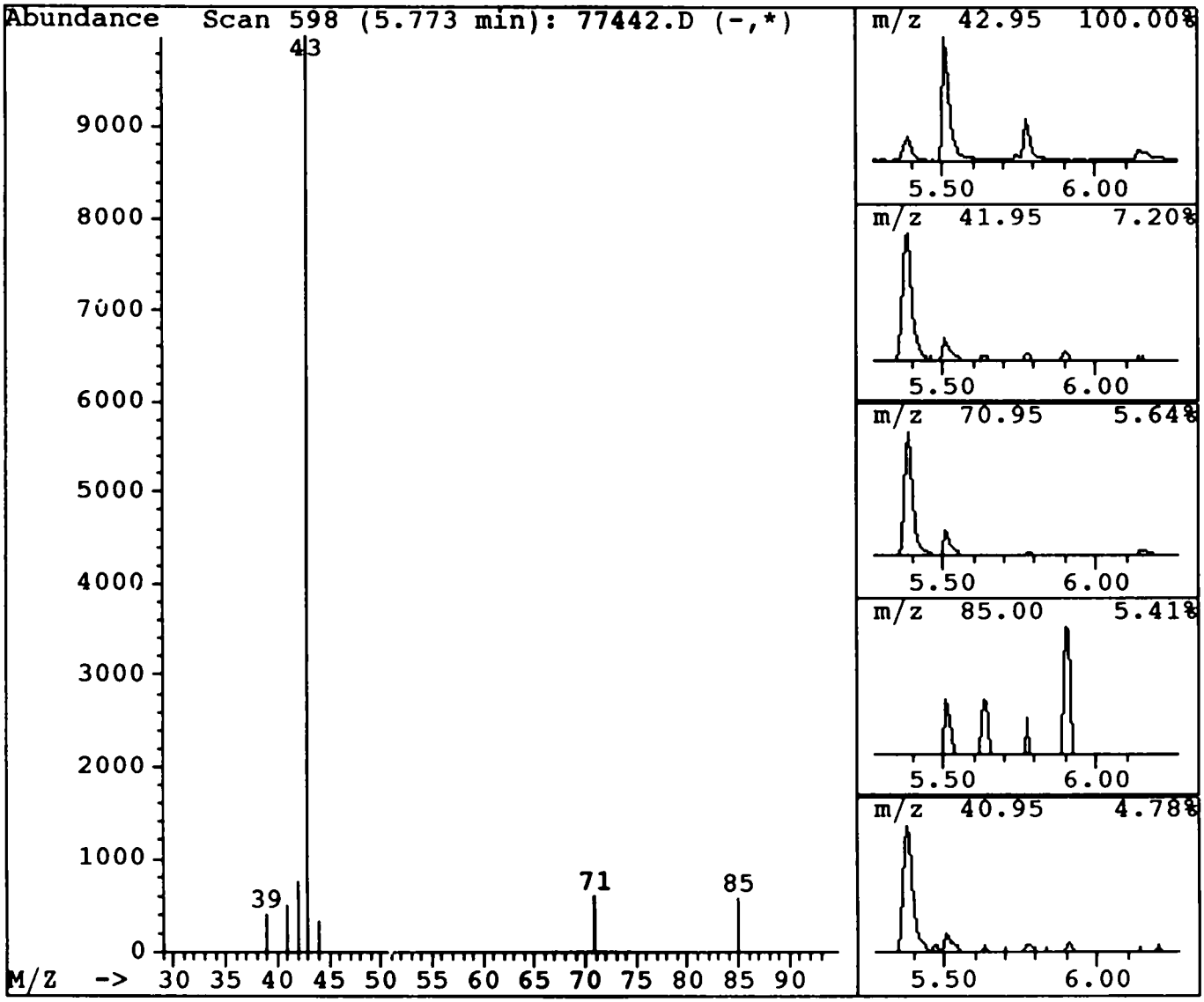
000295

Operator ID: AK Date Acquired: 5 Apr 96 17:32
Data File: C:\CHEMPC\DATA\040596\77442.D
Name: FER41 EXT033096
Misc: HP6*USEPA*15427.05*30.00g/0.5ml/2uLL*MS517
Method: OLMC3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	5.73 ug/mL	51435	CT30 1,4-Dichlorobenzene-	359166

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 17:32

000296

Data File: C:\CHEMPC\DATA\040596\77442.D

Name: FER41 EXT033096

Misc: HP6*USEPA*15427.05*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

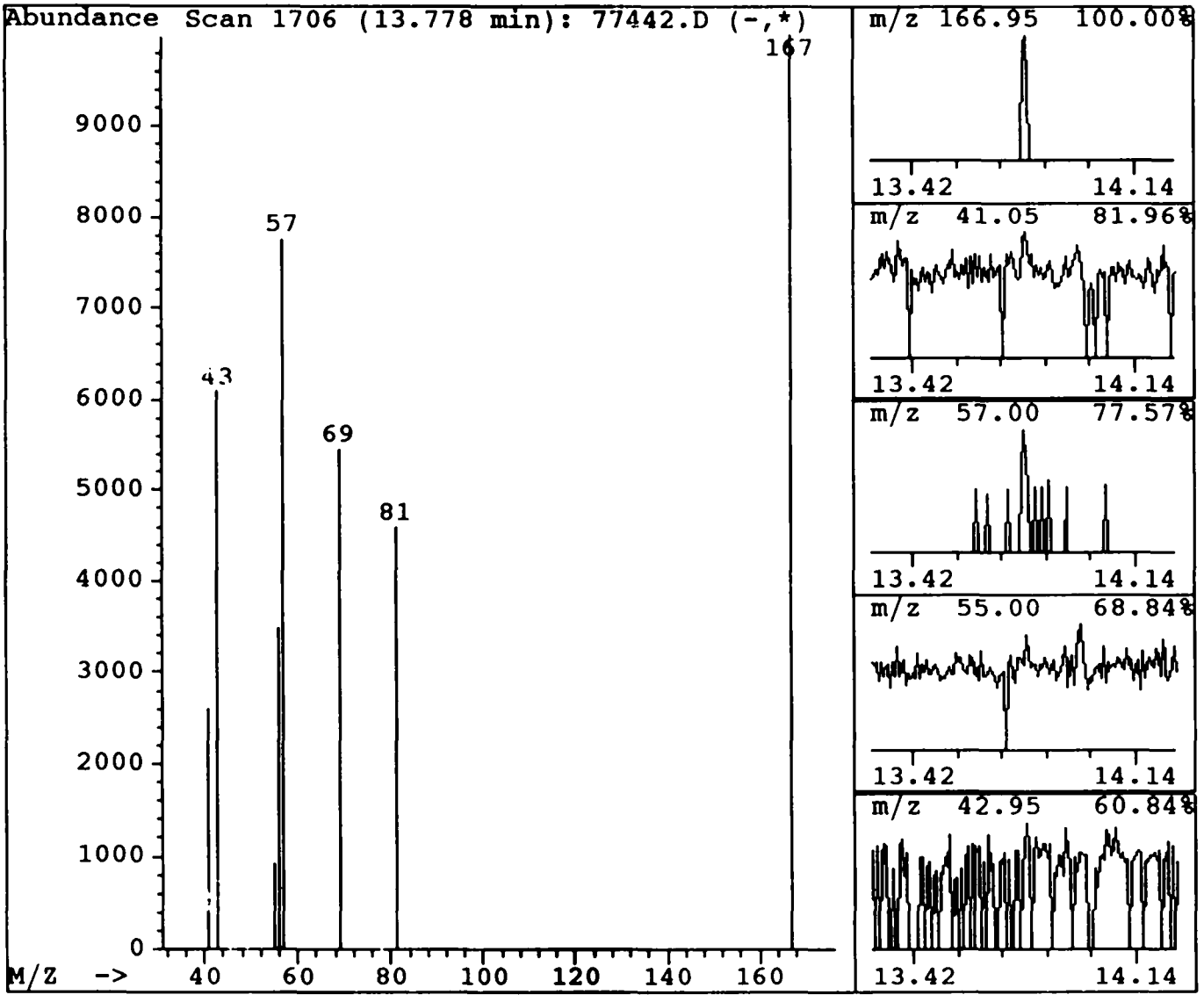
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.78	7.13 ug/mL	33472	CI70 Chrysene-d12	187745

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 17:32

Data File: C:\CHEMPC\DATA\040596\77442.D

000297

Name: FER41 EXT033096

Misc: HP6*USEPA*15427.05*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

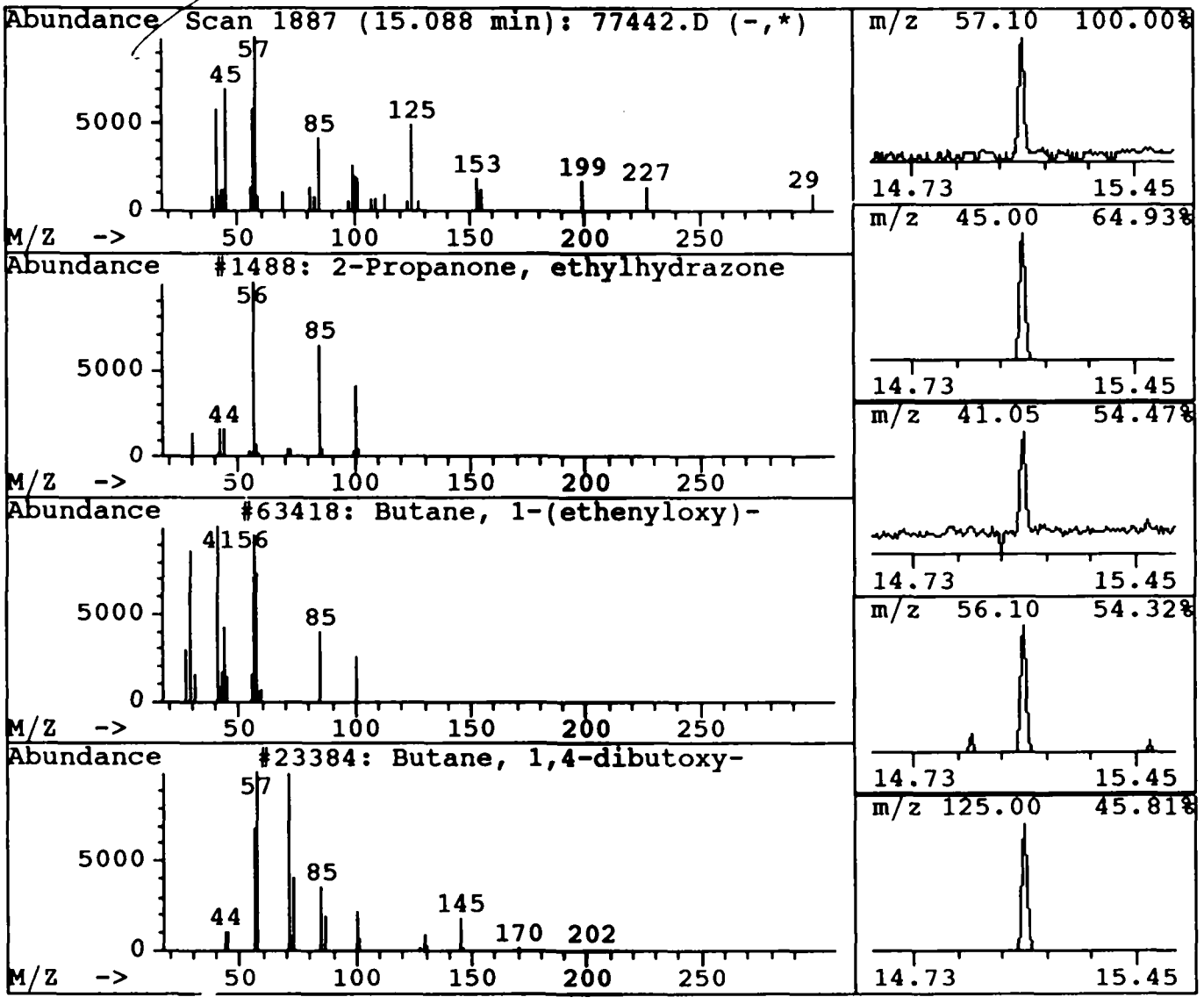
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.09	44.39 ug/mL	208339	CI70 Chrysene-d12	187745

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, ethylhydrazone	1488	007422-99-3	27
2	Butane, 1-(ethenyloxy)-	63418	000111-34-2	22
3	Butane, 1,4-dibutoxy-	23384	004161-40-4	16
4	Dodecane, 3-methyl-	19011	017312-57-1	14
5	Tridecane, 2-methyl-	22536	001560-96-9	14



1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET **000300**

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FER90

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542706

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77443

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 32 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/11/96

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.38	340	ABJ
2.		Aldol condensation	4.75	2000	ABJ
3.		Unknown	5.27	990	J
4.		Aldol condensation	5.52	110	AJ
5.		Unknown	6.35	110	J
6.		Unknown	9.43	120	J
7.		Unknown	9.92	120	J
8.		Unknown	10.00	100	J
9.		Unknown	10.78	210	J
10.		Unknown	11.17	180	J
11.		Unknown	11.92	2600	J
12.		Unknown phthalate ester	15.78	140	J
13.		Unknown	16.33	540	J
14.		Unknown phthalate ester	16.38	150	J
15.		Unknown	16.47	490	J
16.		Unknown phthalate ester	17.32	290	J
17.		Unknown phthalate ester	17.70	980	J

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 18:02

000301

Data File: C:\CHEMPC\DATA\040596\77443.D

Name: FER90 EXT033096

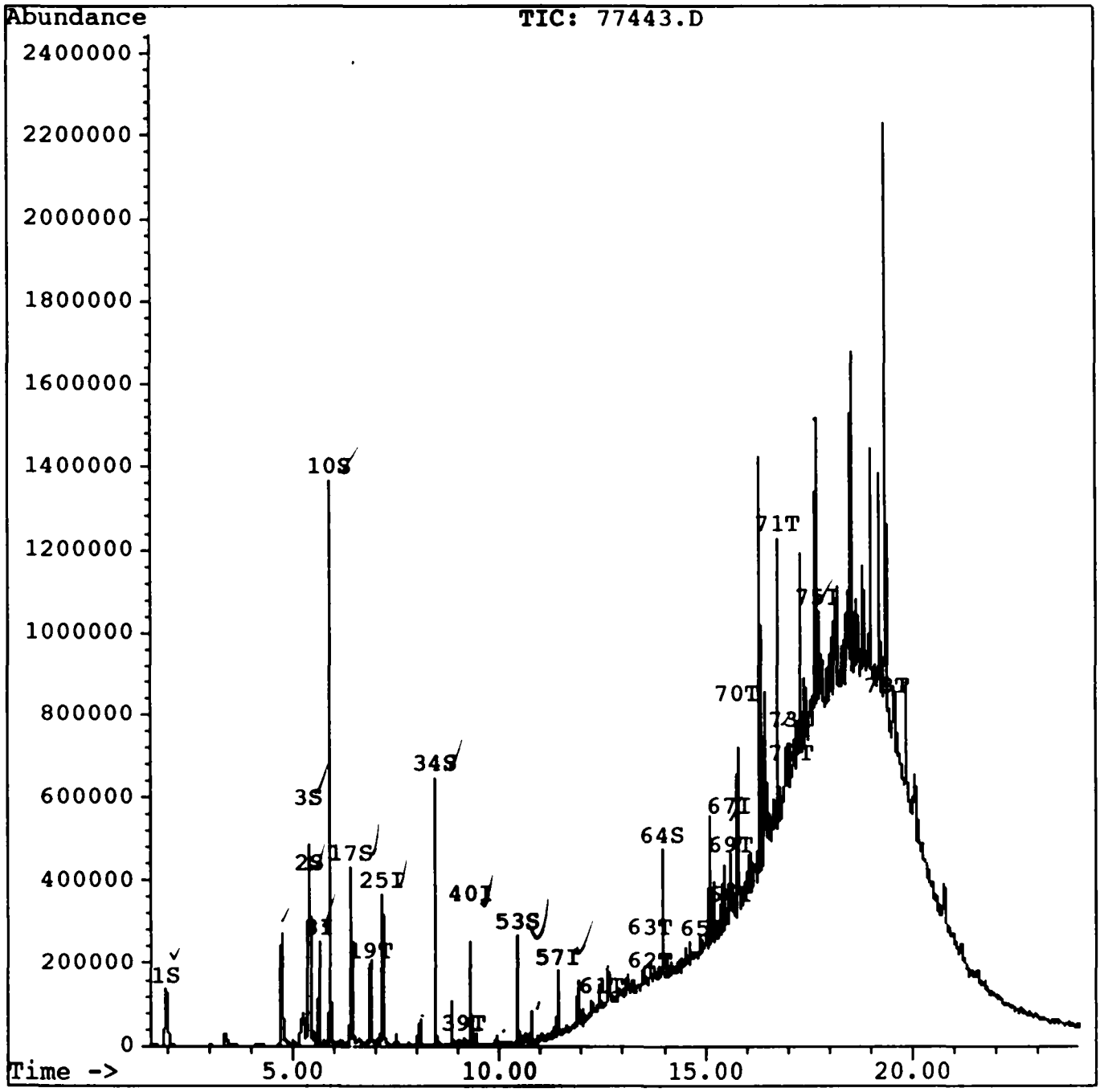
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996
Quantitated using Single Level Calibration

Internal Standards

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8)	CI30 1,4-Dichlorobenzene-d	5.64	152	63214	40.00	ug/mL	0.03
25)	CI40 Naphthalene-d8	7.16	136	180656	40.00	ug/mL	0.01
40)	CI50 Acenaphthene-d10	9.31	164	76386	40.00	ug/mL	0.02
57)	CI60 Phenanthrene-d10	11.42	188	76233	40.00	ug/mL	0.02
67)	CI70 Chrysene-d12	15.60	240	62757	40.00	ug/mL	0.03
75)	CI75 Perylene-d12	17.74	264	104701	40.00	ug/mL	0.06

System Monitoring Compounds

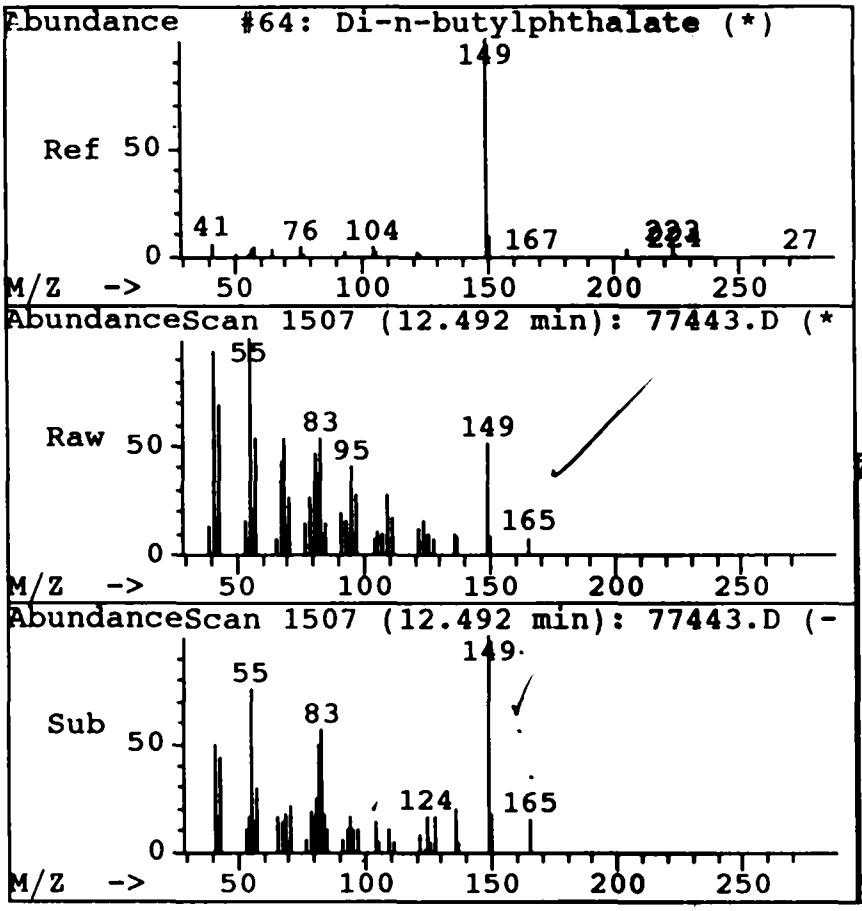
							%Recovery
1)	CS50 2-Fluorophenol	1.98	112	132939	116.25	ug/mL	77.50%
2)	CS45 Phenol-d5	5.42	99	204894	99.28	ug/mL	66.18%
3)	CS70 2-Chlorophenol-d4	5.39	132	197718	110.80	ug/mL	73.87%
10)	CS75 1,2-Dichlorobenzene-d	5.90	152	96954	73.54	ug/mL	73.54%
17)	CS20 Nitrobenzene-d5	6.41	82	154628	72.96	ug/mL	72.96%
34)	CS25 2-Fluorobiphenyl	8.45	172	219270	85.36	ug/mL	85.36%
53)	CS55 2,4,6-Tribromophenol	10.44	330	42980	156.92	ug/mL	104.61%
64)	CS30 Terphenyl-d14	13.98	244	109169	80.70	ug/mL	80.70%

Target Compounds

							ISTD#
19)	~~C415 Isophorone~~	~~6.86~~	~~82~~	~~12092~~	~~3.92~~	~~ug/mL~~	~~002#~~
39)	~~C543 2,6-Dinitrotoluene~~	~~9.13~~	165	1431	2.79	ug/mL	003#
61)	C650 Di-n-butylphthalate	12.49	149	11403	3.52	ug/mL	004
62)	~~C655 Fluoranthene~~	~~13.65~~	~~202~~	~~8259~~	~~3.60~~	~~ug/mL~~	004
63)	C715 Pyrene	13.65	202	8245	4.12	ug/mL	005#
65)	~~C720 Butylbenzylphthalate~~	~~14.95~~	~~149~~	~~5993~~	~~5.15~~	~~ug/mL~~	~~005#~~
66)	~~C730 Benzo(a)anthracene~~	~~15.63~~	228	7797	~~4.41~~	~~ug/mL~~	~~005#~~
69)	~~C740 Chrysene~~	~~15.63~~	~~228~~	~~7461~~	~~4.04~~	~~ug/mL~~	~~005#~~
70)	C745 bis(2-Ethylhexyl)phth	~~15.79~~	149	~~273972~~	~~173.98~~	ug/mL	005#
71)	C760 Di-n-octylphthalate	16.77	149	452359	96.63	ug/mL	006
72)	~~C765 Benzo(b)fluoranthene~~	~~17.11~~	~~252~~	~~12199~~	~~4.42~~	~~ug/mL~~	~~006~~
73)	~~C770 Benzo(k)fluoranthene~~	17.11	252	12199	3.72	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.41	276	15879	6.26	ug/mL	006#

FALSE POSITIVE

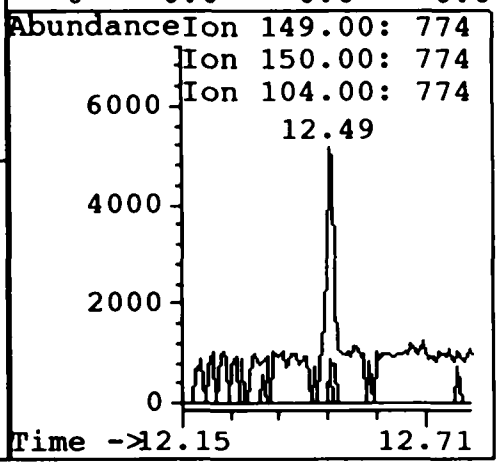
(#) = qualifier out of range

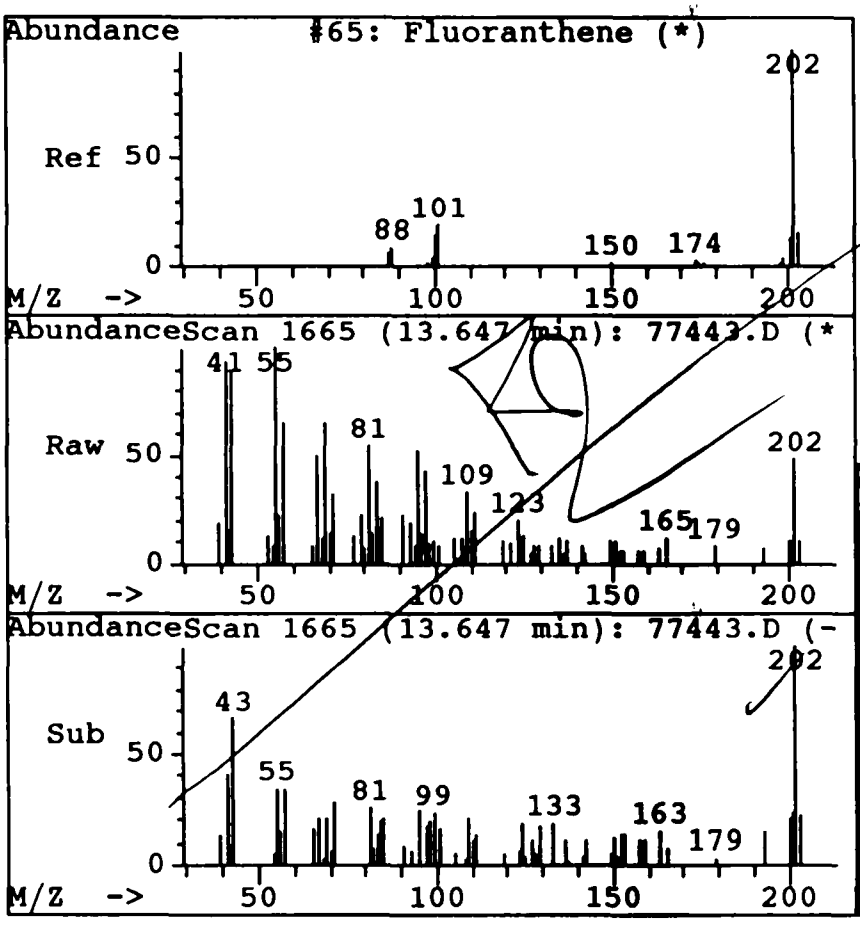


#61 Inst: HP6
C650 Di-n-butylphthalate
Concen: 3.52 ug/mL
RT: 12.49 min Scan# 1507
Delta R.T. 0.01 min
Lab File: 77443.D
Acq: 5 Apr 96 18:02
FER90

Tgt Ion: 149 Area: 11403

Ion	Ratio	Lower	Upper
149	100		
150	9.3	0.0	28.6
104	2.7	0.0	24.0
0	0.0	0.0	0.0

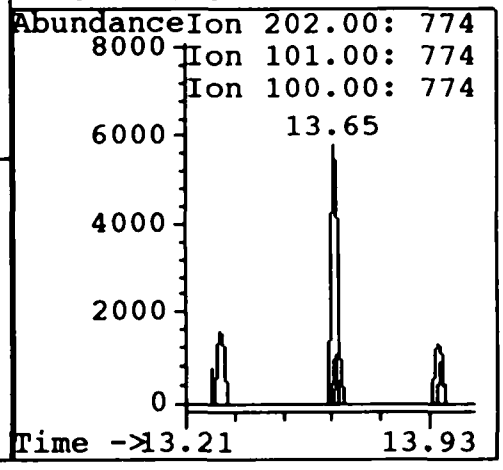


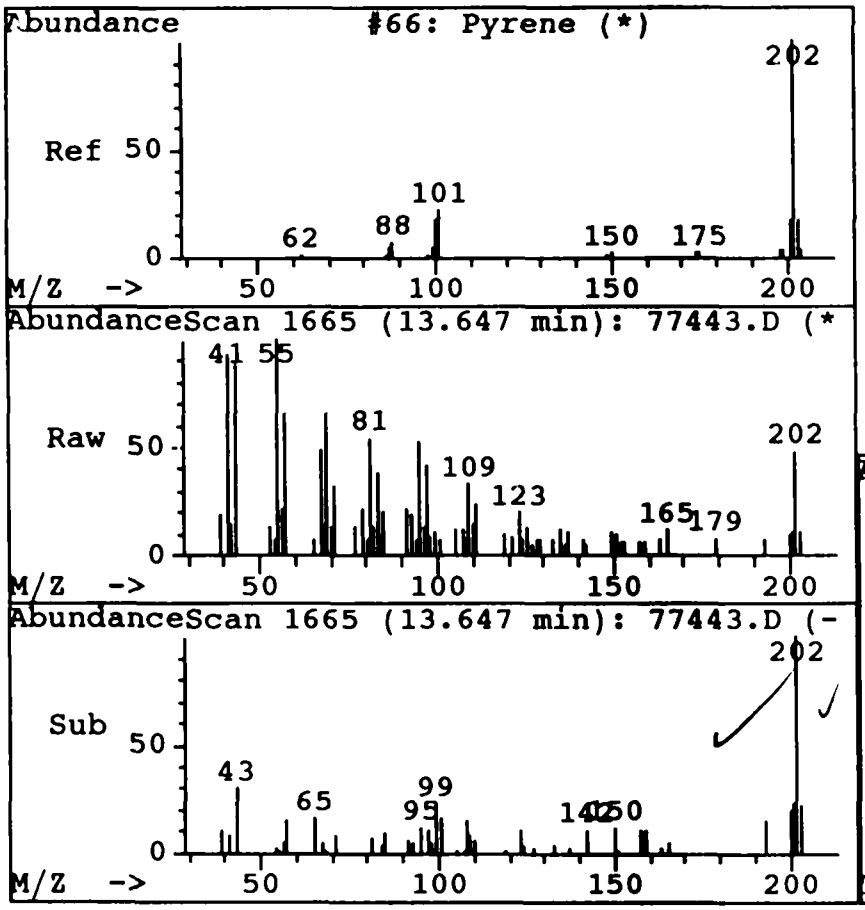


#62 Inst: HP6
C655 Fluoranthene
Concen: 3.60 ug/mL
RT: 13.65 min Scan# 1665
Delta R.T. 0.36 min
Lab File: 77443.D
Acq: 5 Apr 96 18:02
FER90

Tgt Ion: 202 Area: 8259

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	39.0
100	3.2	0.0	25.0
0	0.0	0.0	0.0



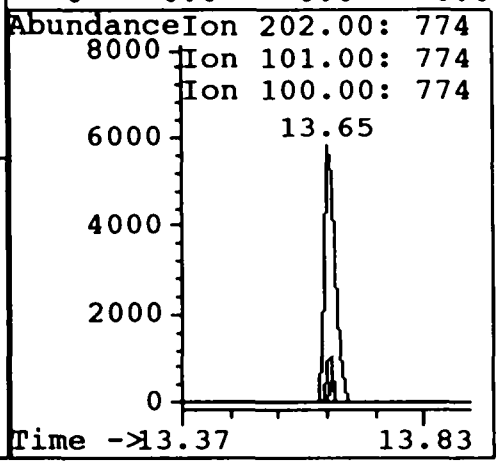


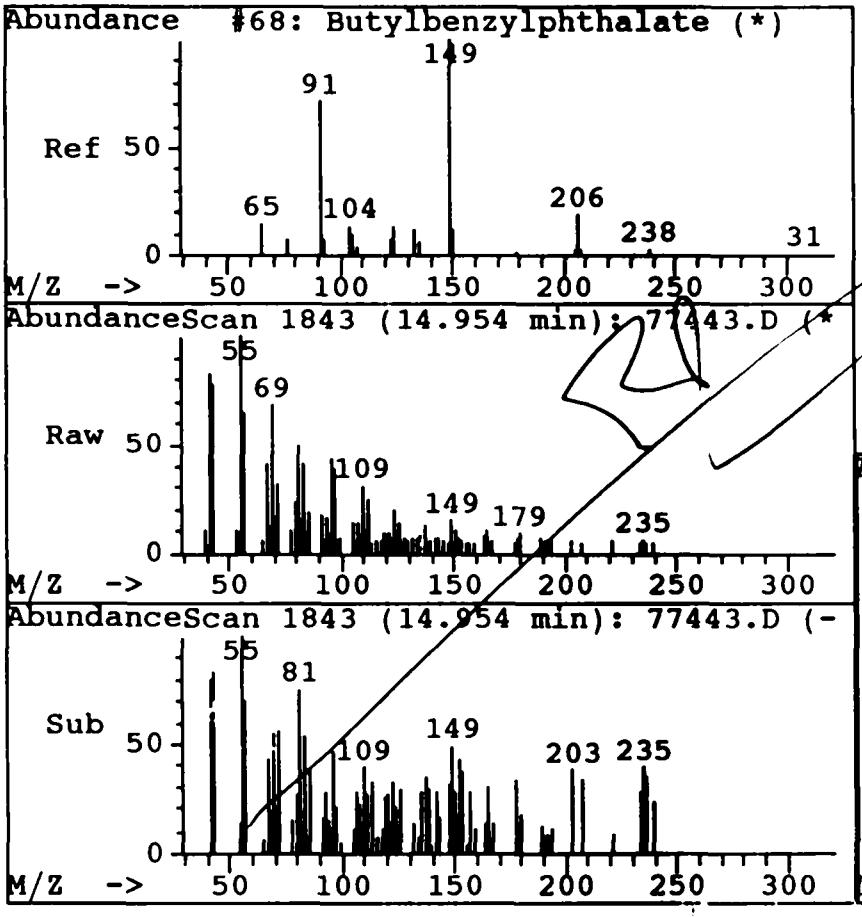
#63 Inst: HP6
C715 Pyrene
Concen: 4.12 ug/mL
RT: 13.65 min Scan# 1665
Delta R.T. 0.02 min
Lab File: 77443.D
Acq: 5 Apr 96 18:02
FER90

000304

Tgt Ion: 202 Area: 8245

Ion	Ratio	Lower	Upper
202	100		
101	10.5	2.4	42.4
100	0.0	0.0	25.0
0	0.0	0.0	0.0

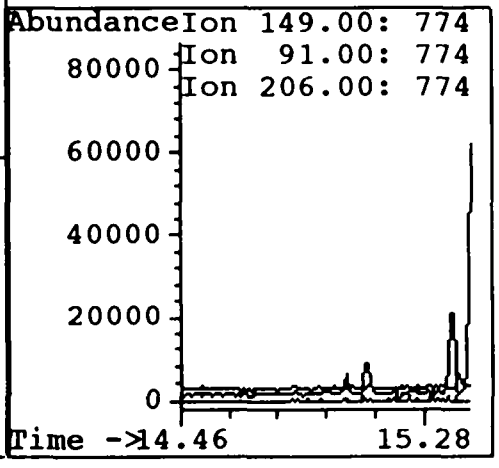


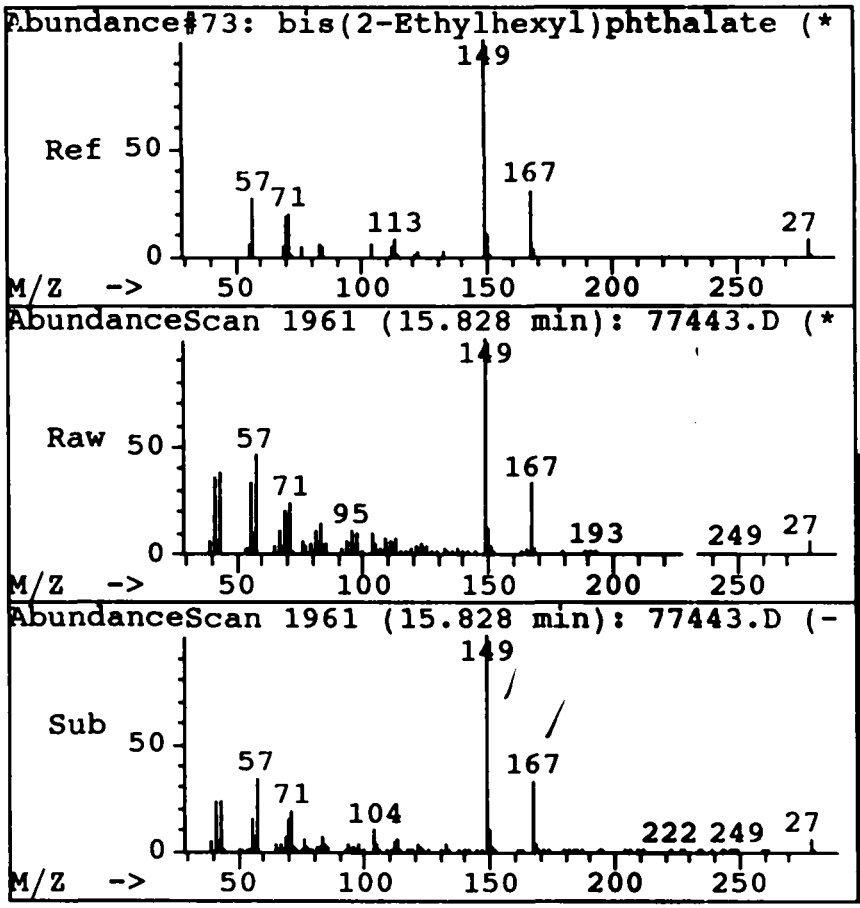


#65 Inst: HP6
C720 Butylbenzylphthalate
Concen: 5.15 ug/mL
RT: 14.95 min Scan# 1843
Delta R.T. 0.13 min
Lab File: 77443.D
Acq: 5 Apr 96 18:02
FER90

Tgt Ion: 149 Area: 5993

Ion	Ratio	Lower	Upper
149	100		
91	0.0	53.2	93.2#
206	5.1	0.0	39.5
0	0.0	0.0	0.0

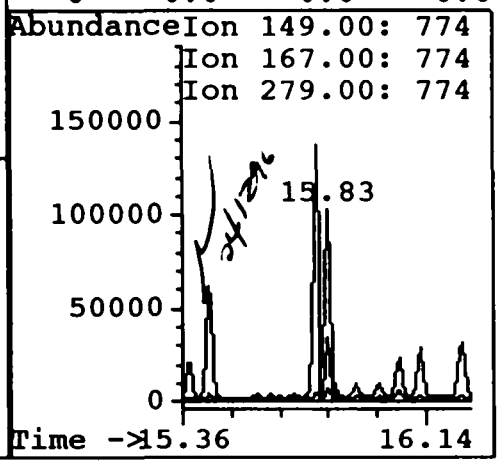


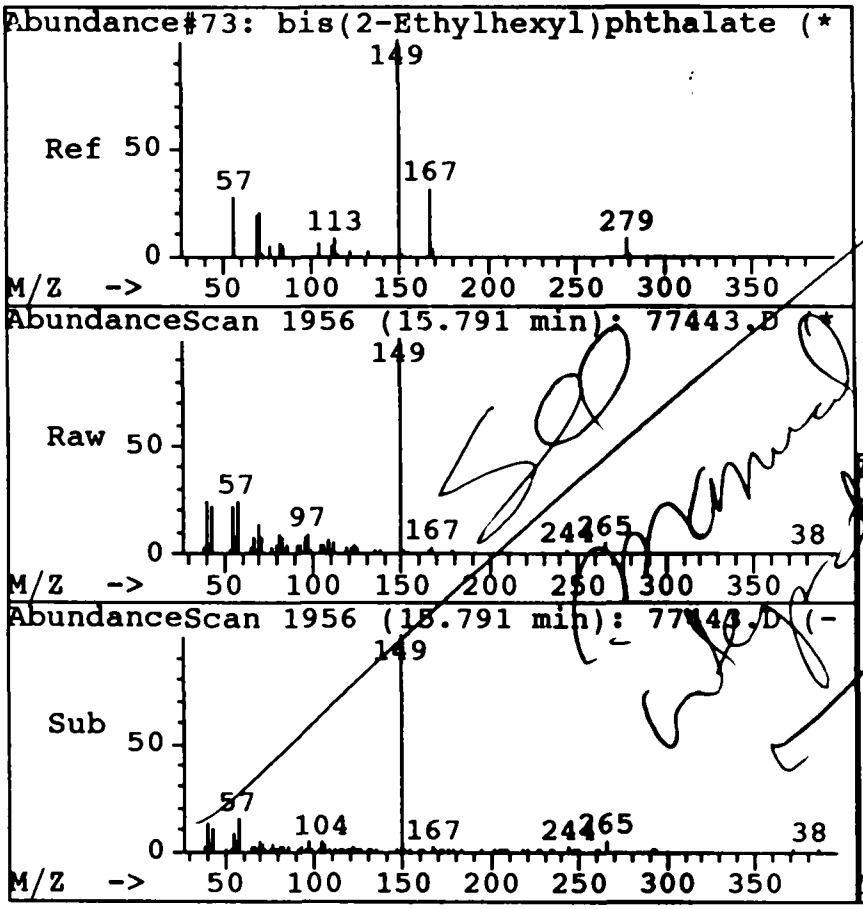


#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 80.45 ug/mL m
RT: 15.83 min Scan# 1961
Delta R.T. 0.02 min
Lab File: 77443.D
Acq: 5 Apr 96 18:02
FER90

Tgt Ion: 149 Area: 126692

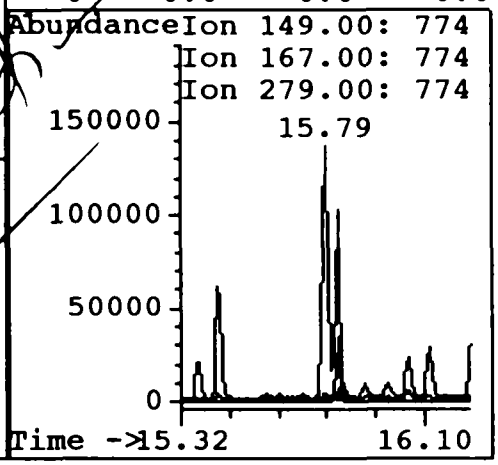
Ion	Ratio	Lower	Upper
149	100		
167	32.7	13.5	53.5
279	6.5	0.0	29.5
0	0.0	0.0	0.0

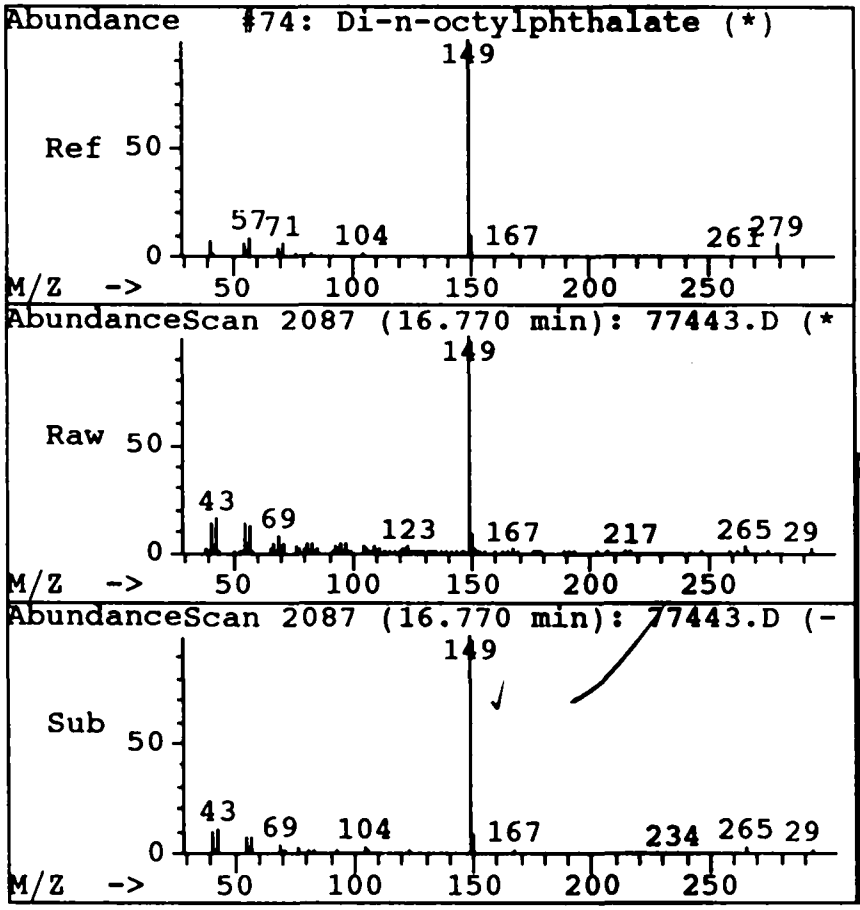




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 173.98 ug/mL
RT: 15.79 min Scan# 1956
Delta R.T. -0.01 min
Lab File: 77443.D
Acq: 5 Apr 96 18:02
FER90
Tgt Ion: 149 Area: 273972

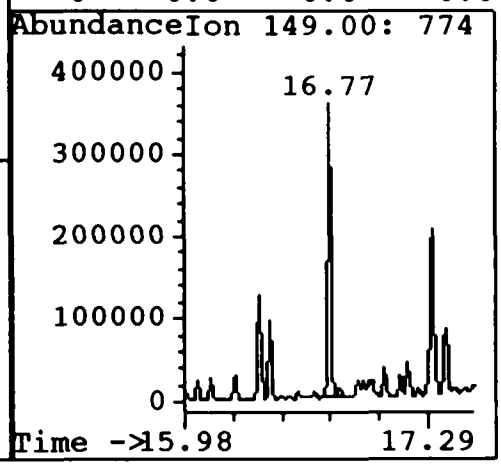
Ion	Ratio	Lower	Upper
149	100		
167	15.1	13.5	53.5
279	3.0	0.0	29.5
0	0.0	0.0	0.0

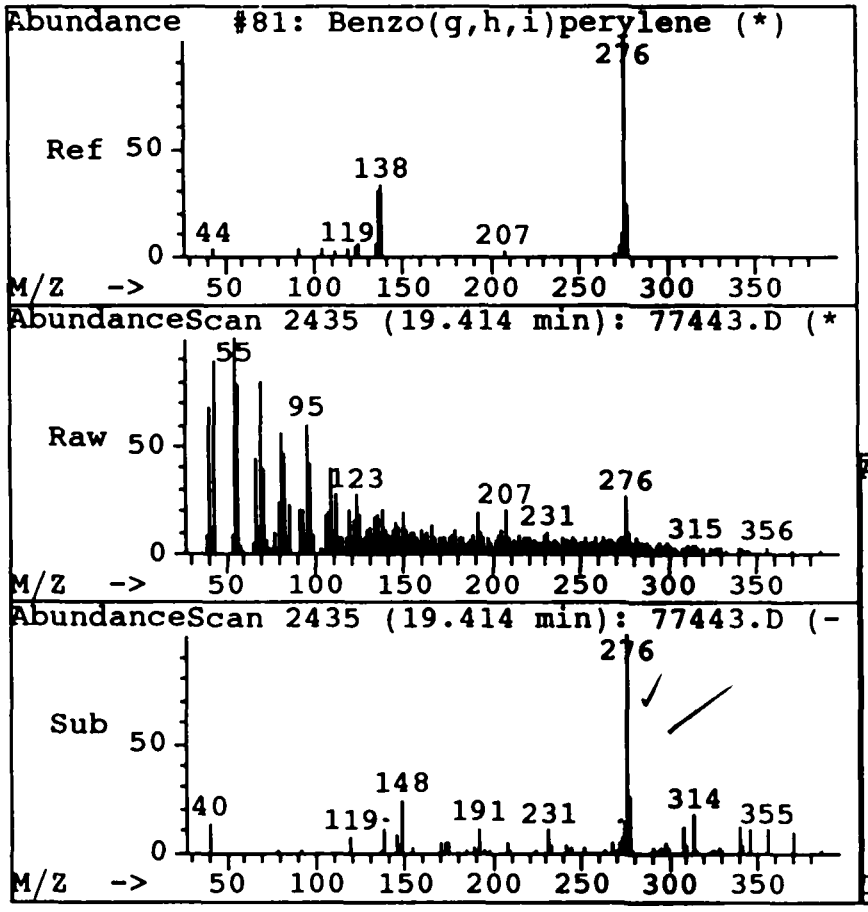




#71 Inst: HP6
C760 Di-n-octylphthalate
Concen: 96.63 ug/mL
RT: 16.77 min Scan# 2087
Delta R.T. 0.05 min
Lab File: 77443.D
Acq: 5 Apr 96 18:02
FER90
Tgt Ion: 149 Area: 452359

Ion	Ratio	Lower	Upper
149	100		
0	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

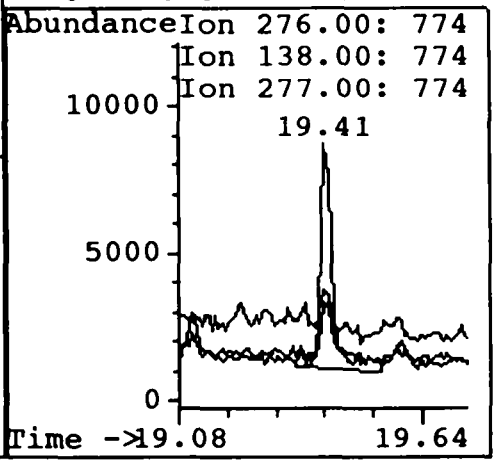




#78 Inst: HP6 **000307**
C790 Benzo(g,h,i)perylene
Concen: 6.26 ug/mL
RT: 19.41 min Scan# 2435
Delta R.T. 0.09 min
Lab File: 77443.D
Acq: 5 Apr 96 18:02
FER90

Tgt Ion: 276 Area: 15879

Ion	Ratio	Lower	Upper
276	100		
138	43.7	9.2	49.2
277	47.7	3.0	43.0#
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:02

000308

Data File: C:\CHEMPC\DATA\040596\77443.D

Name: FER90 EXT033096

Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uL*MS517

Method: OLMO3_1.M Inst: HP6

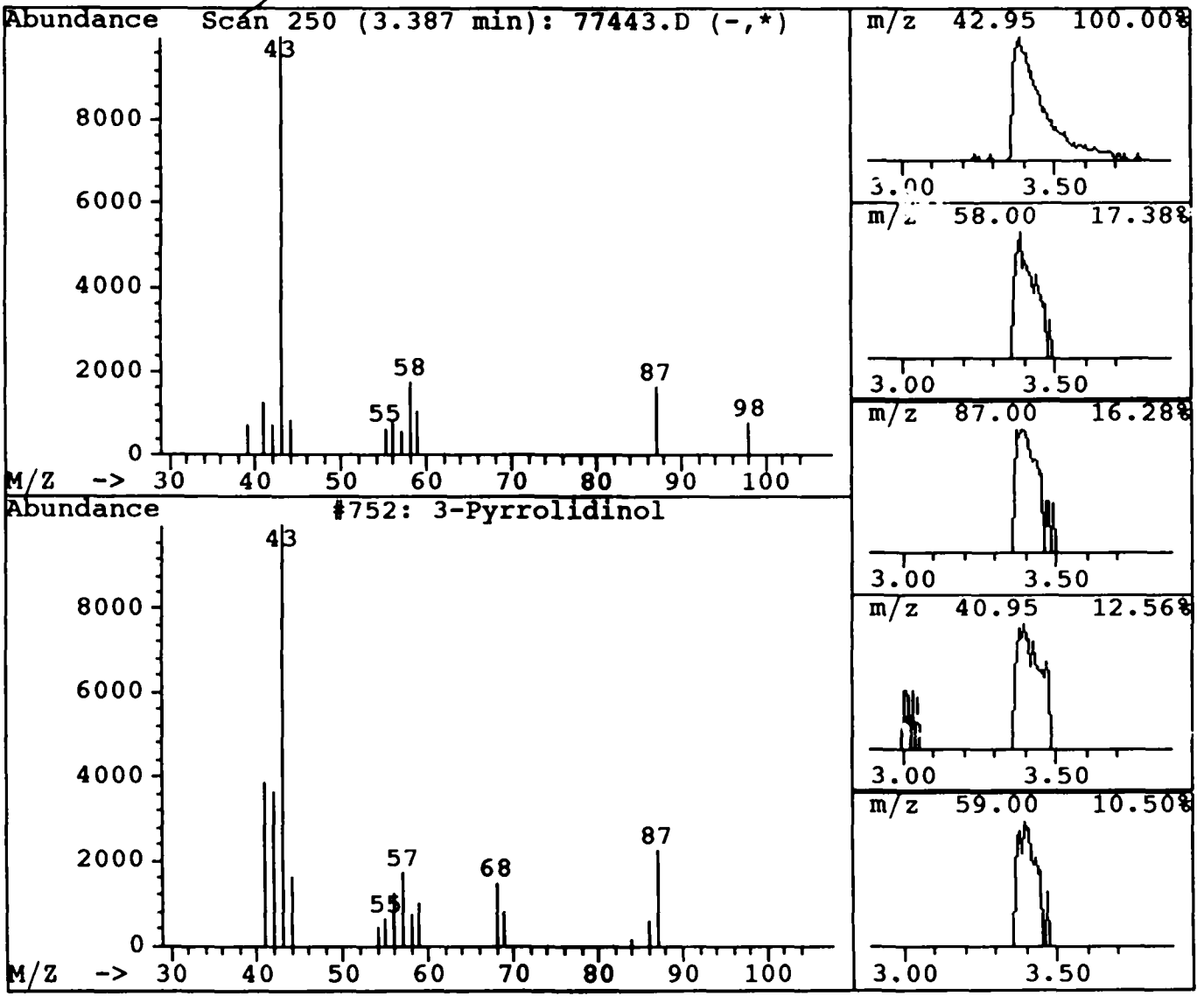
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.39	13.70 ug/mL	141568	CF30 1,4-Dichlorobenzene-	413397

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	3-Pyrrolidinol	752	040499-83-0	33



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:02 **000309**

Data File: C:\CHEMPC\DATA\040596\774[illegible]3.D

Name: FER90 EXT033096

Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

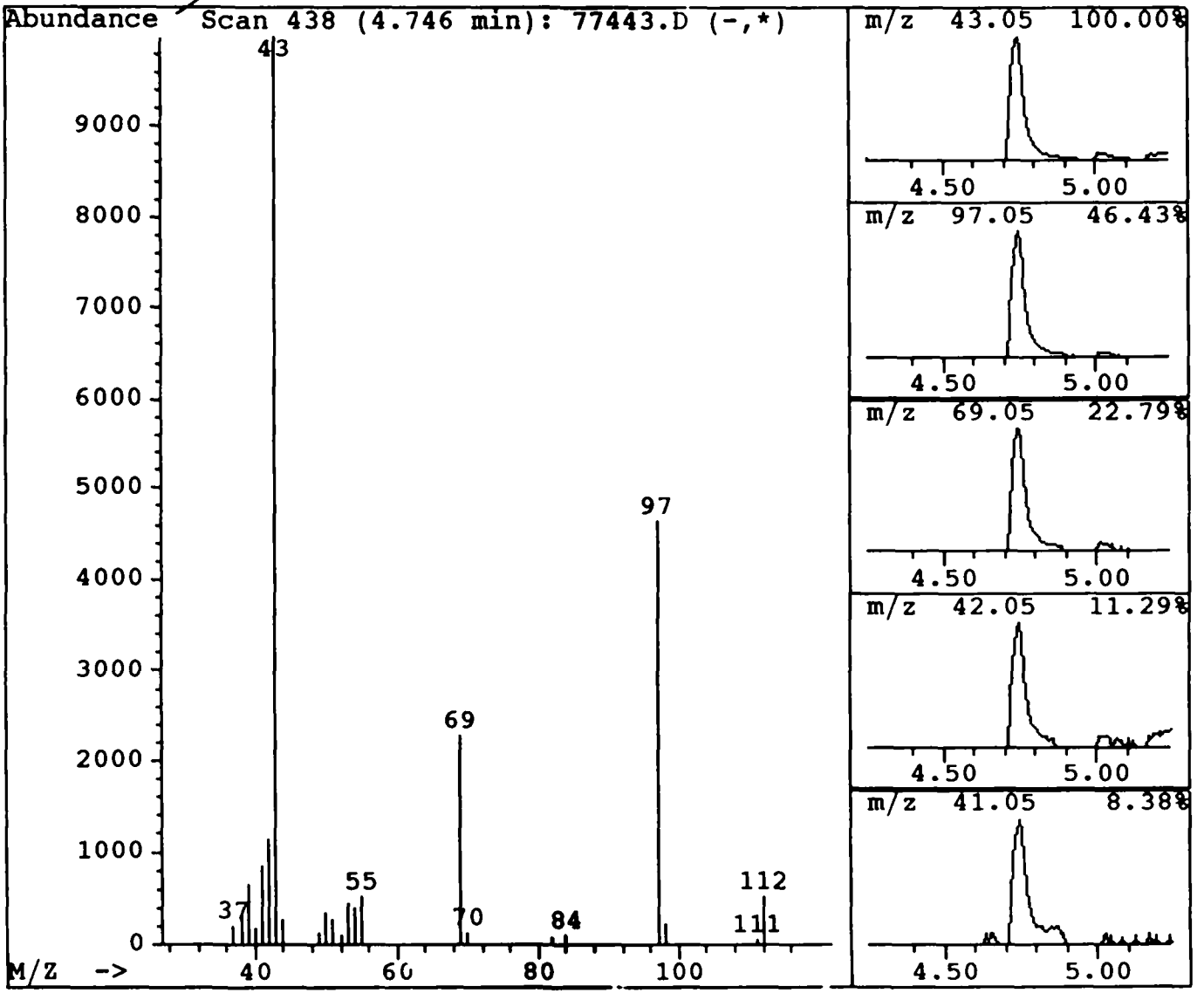
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.75	82.80 ug/mL	855722	CI30 1,4-Dichlorobenzene-	413397

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

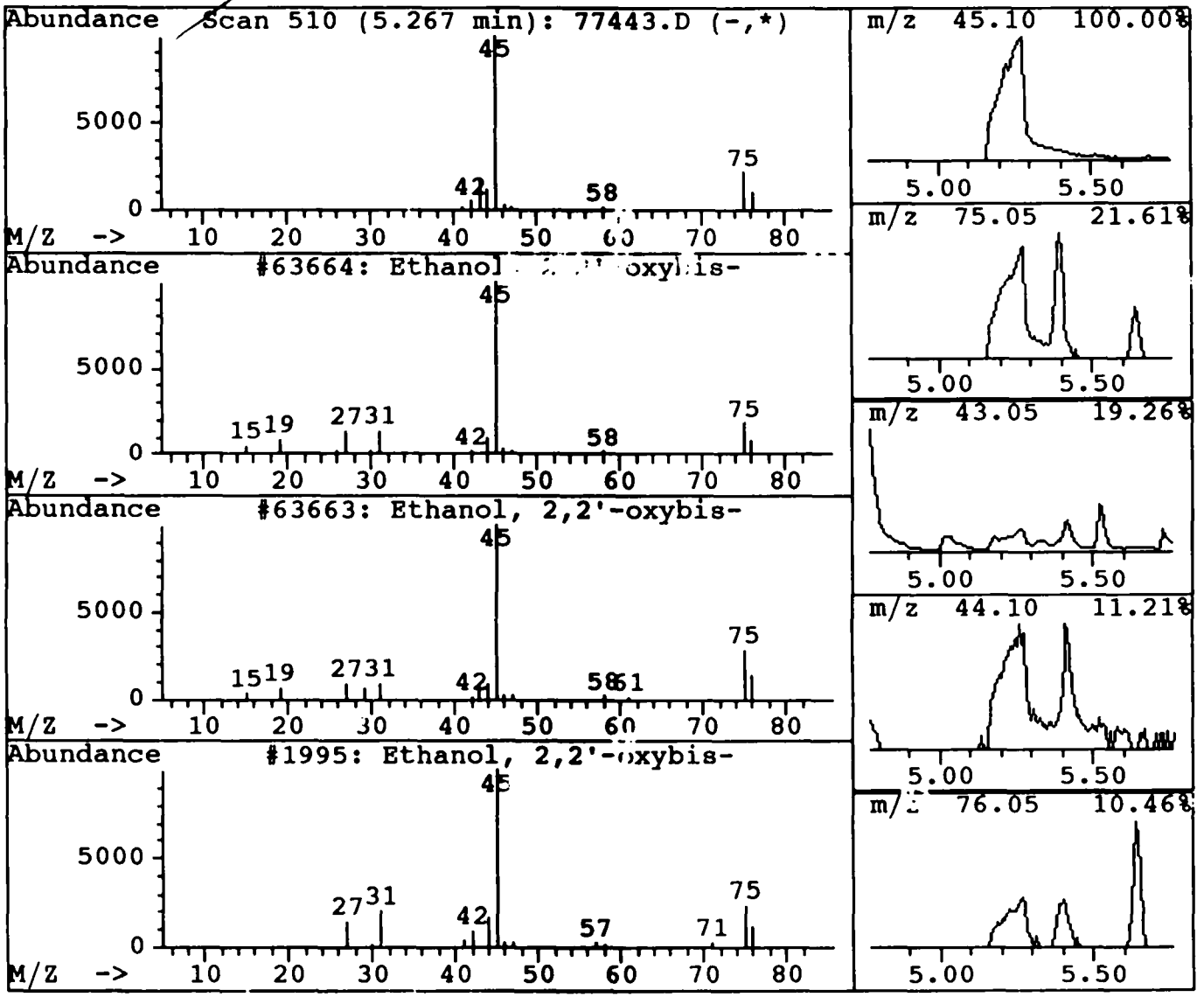
000310

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.27	40.40 ug/mL	417543	C130 ..,4-Dich orobenzene-	413397

Hit# of 3	Tentative ID	Ref#	CAS#	Qual
1	Ethanol, 2,2'-oxybis-	63664	000111-46-6	83
2	Ethanol, 2,2'-oxybis-	63663	000111-46-6	83
3	Ethanol, 2,2'-oxybis-	1995	000111-46-6	43



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:02

000311

Data File: C:\CHEMPC\DATA\040596\77443.D

Name: FER90 EXT033096

Misc: HP6*USEPA*1542.06*30.00g/5ml/2uLL*MS517

Method: OLMO3_1.M Inst. dko

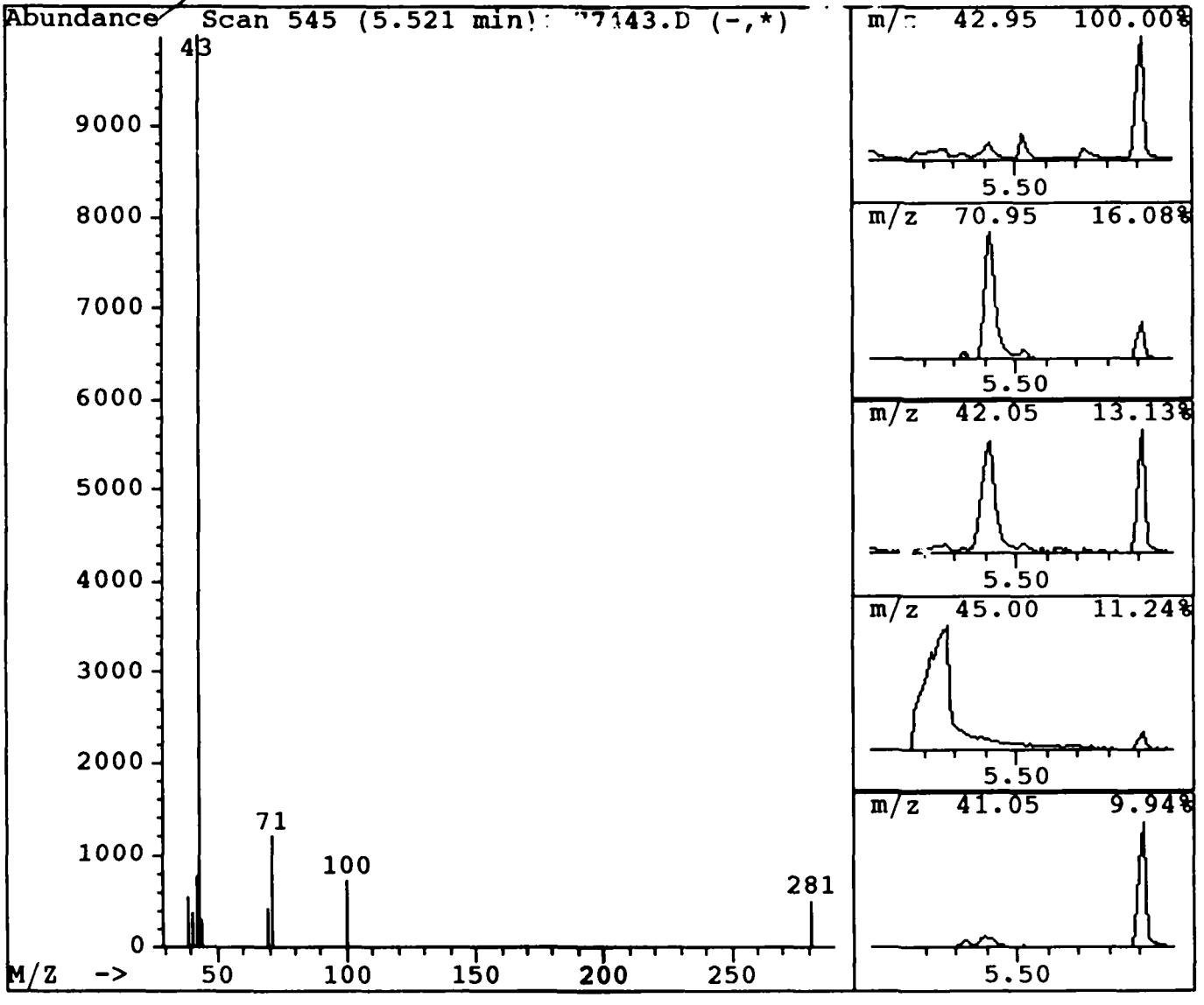
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.52	4.46 ug/mL	46123	CI30 1,4-Dichlorobenzene-	413397

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:02

000312

Data File: C:\CHEMPC\DATA\040596\77443.D

Name: FER90 EXT033096

Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

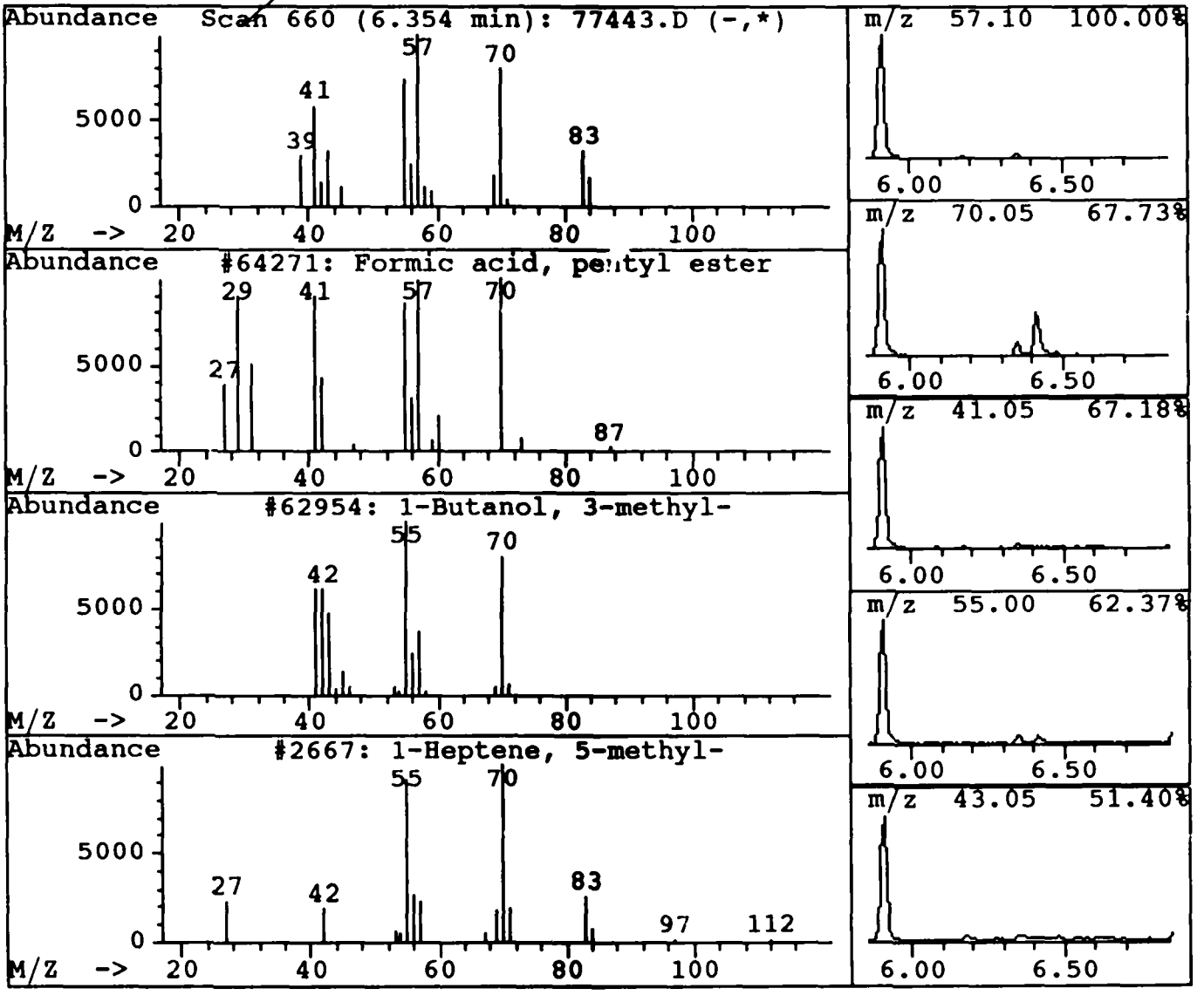
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.35	4.52 ug/mL	46681	C 30 1,4-Dichlorobenzene-	413397

Hit# of 19	Tentative ID	Ref#	CAS#	Qual
1	Formic acid, pentyl ester	64271	000638-49-3	53
2	1-Butanol, 3-methyl-	62954	000123-51-3	40
3	1-Heptene, 5-methyl-	2667	013151-04-7	38
4	Butane, 2-cyclopropyl-	1317	005750-02-7	33
5	1-Butanol, 2-methyl-	62949	000137-32-6	25



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:02

Data File: C:\CHEMPC\DATA\040596\77443.D

000313

Name: FER90 EXT033096

Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

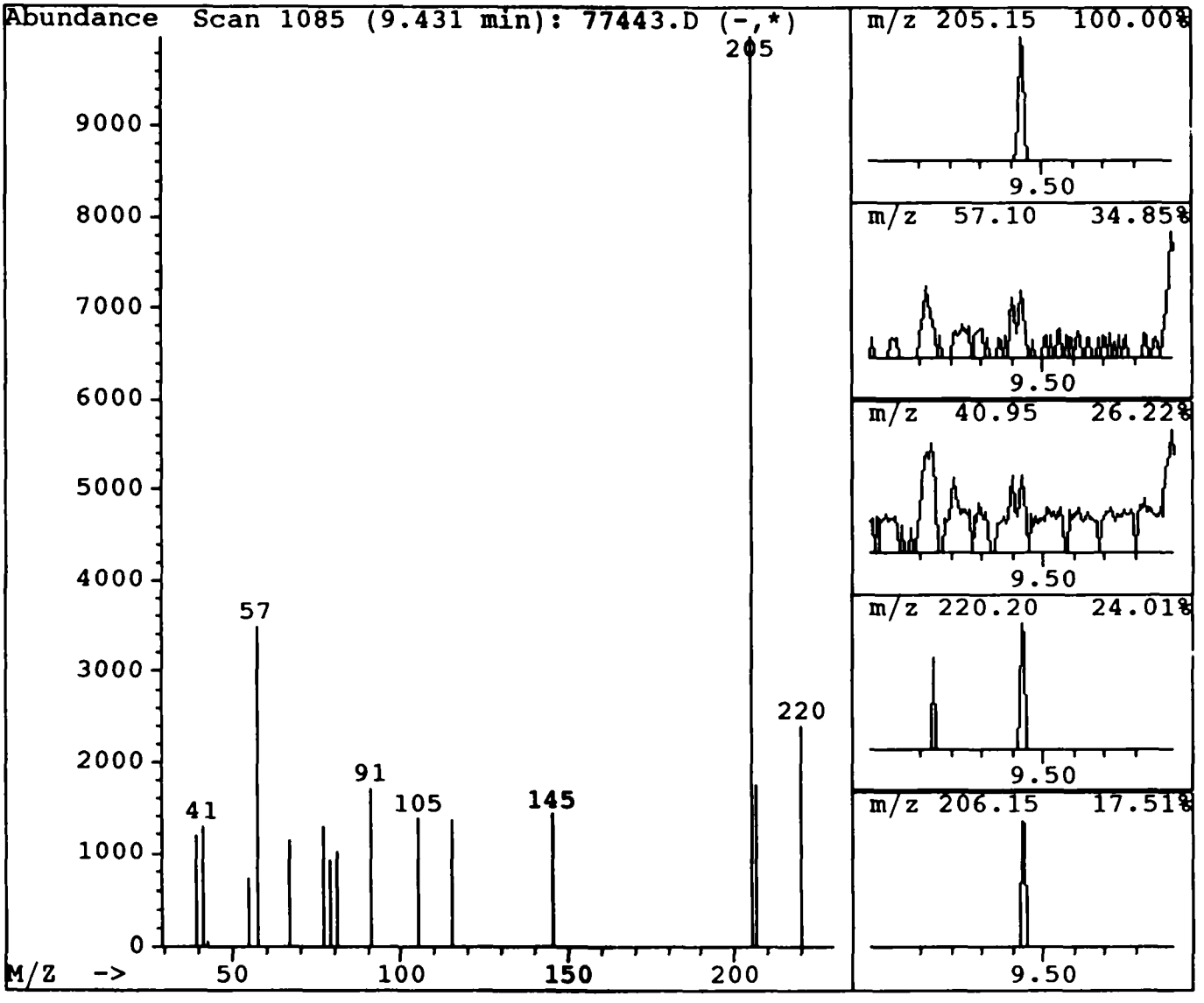
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.43	4.79 ug/mL	36113	CI50 Acenaphthene-d10	301451

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:02

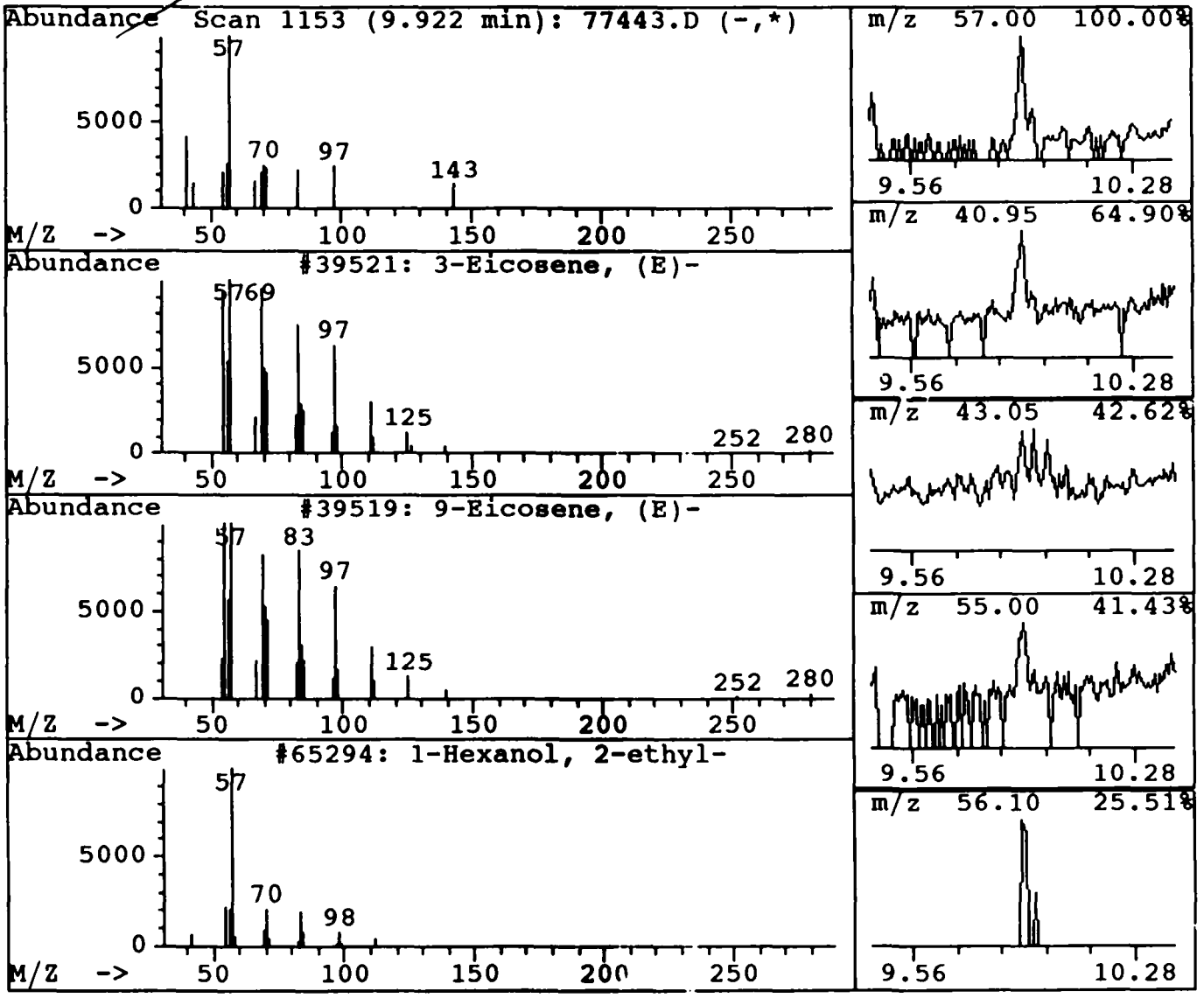
000314

Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
9.92	4.97 ug/mL	37449	CI50 Acenaphthene-d10	301451

Hit# of 5	Tentative ID	Ref#	CAS#	Qual
1	3-Eicosene, (E)-	39521	074685-33-9	34
2	9-Eicosene, (E)-	39519	074685-29-3	30
3	1-Hexanol, 2-ethyl-	65294	000104-76-7	28
4	1-Hexanol, 2-ethyl-	65293	000104-76-7	28
5	1-Hexanol, 2-ethyl-	5518	000104-76-7	28



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:02

Data File: C:\CHEMPC\DATA\040596\77443.D

000315

Name: FER90 EXT033096

Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

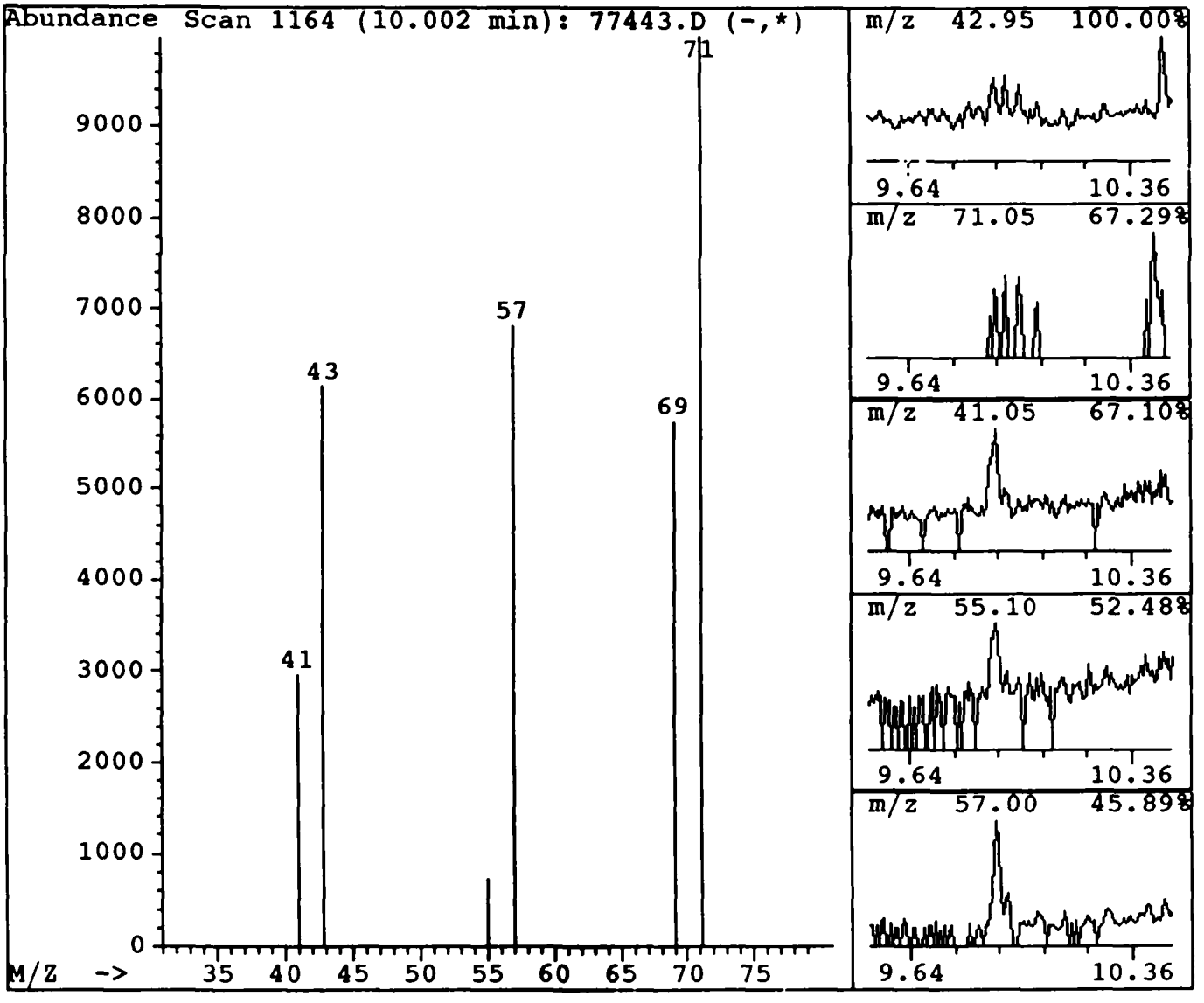
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.00	4.25 ug/mL	32045	CI50 Acenaphthene-d10	301451

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

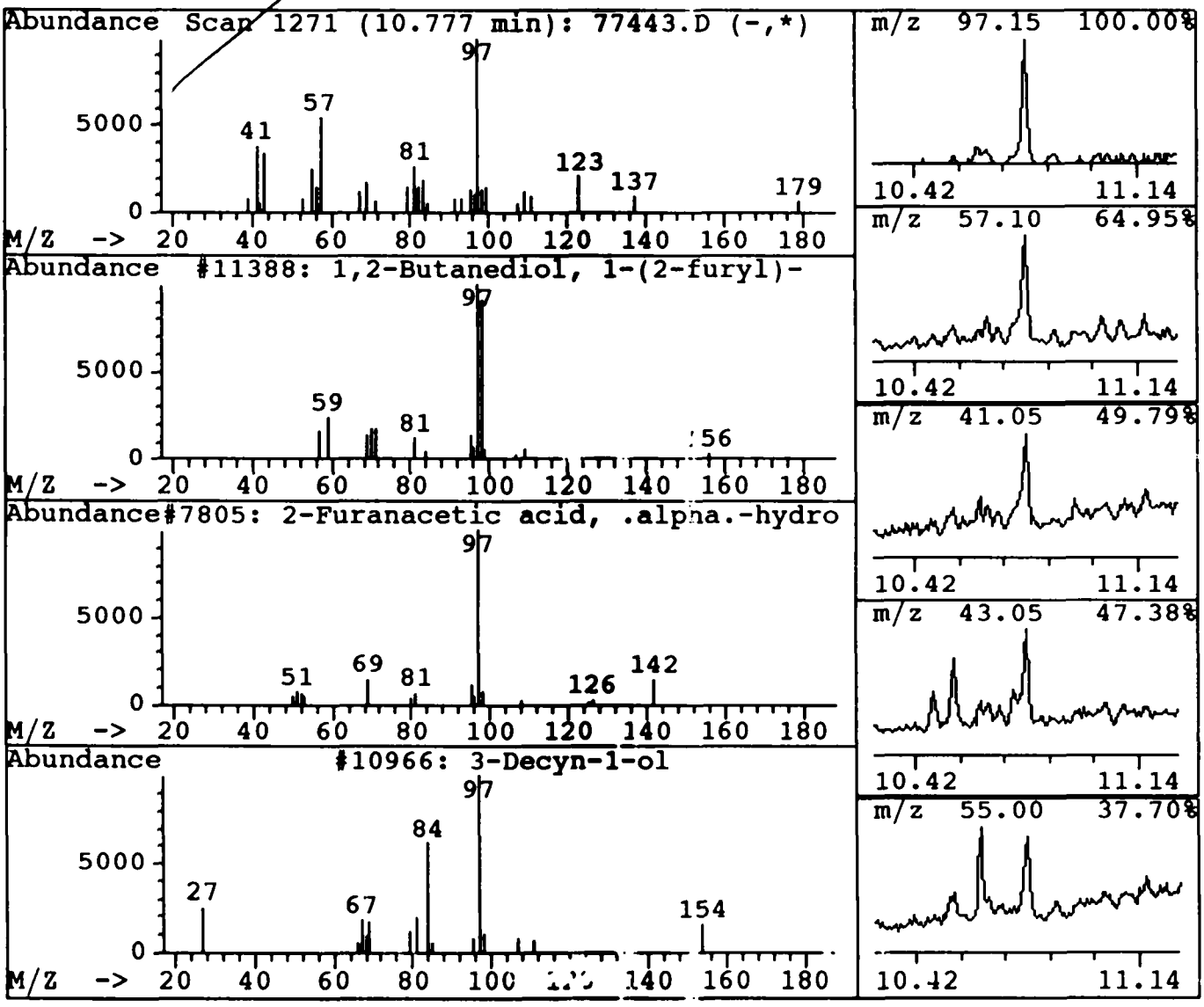
000316

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.78	8.45 ug/mL	120754	CT60 Phenanthrene-d10	571540

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Butanediol, 1-(2-furyl)-	11388	004208-60-0	40
2	2-Furanacetic acid, .alpha.-hydroxy	7805	019377-73-2	40
3	3-Decyn-1-ol	10966	051721-39-2	37
4	4-Hepten-3-one, 5-methyl-	64908	001447-26-3	37
5	Cyclohexane, 1,1-dimethyl-	2671	000590-66-9	37



Tentatively Identified Compound (LSC)

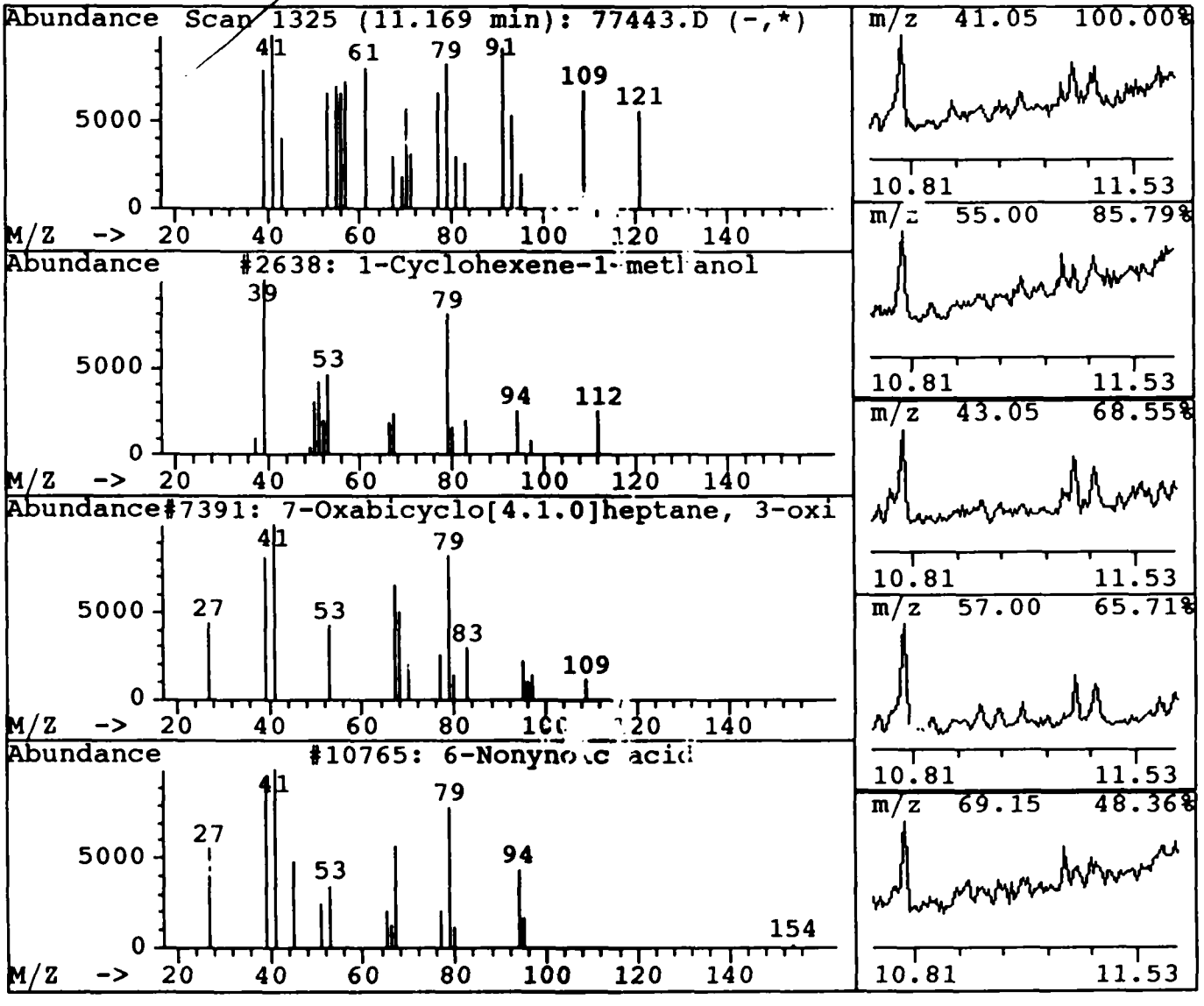
000317

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.17	7.49 ug/mL	107040	C160 Phenanthrene-d10	571540

Hit# of 11	Tentative ID	Ref#	CAS#	Qual
1	1-Cyclohexene-1-methanol	2638	004845-04-9	50
2	7-Oxabicyclo[4.1.0]heptane, 3-oxira	7391	000106-87-6	25
3	6-Nonynoic acid	10765	056630-31-0	23
4	2-Heptenal, (Z)-	2610	057266-86-1	17
5	2-Hexyn-1-ol	1290	000764-60-3	17



Tentatively Identified Compound (LSC)

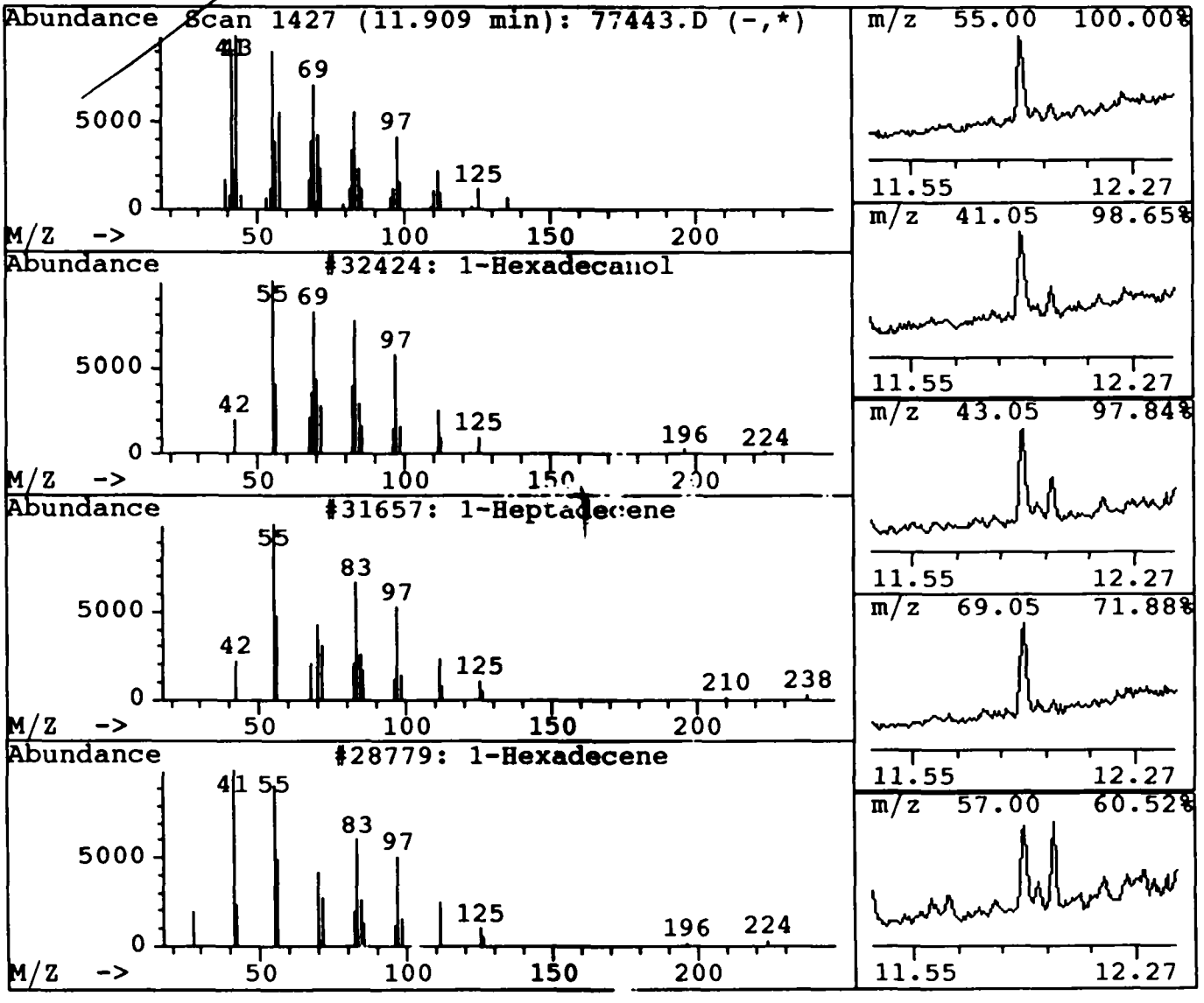
000318

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.91	106.94 ug/mL	1527948	CI60 Phenanthrene-d10	571540

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Hexadecanol	32424	036653-82-4	93
2	1-Heptadecene	31657	006765-39-5	81
3	1-Hexadecene	28779	000629-73-2	76
4	1-Pentadecene	70192	013360-61-7	76
5	5-Octadecene, (E)-	34413	007206-21-5	74



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:02

Data File: C:\CHEMPC\DATA\040596\77443.D

000319

Name: FER90 EXT033096

Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

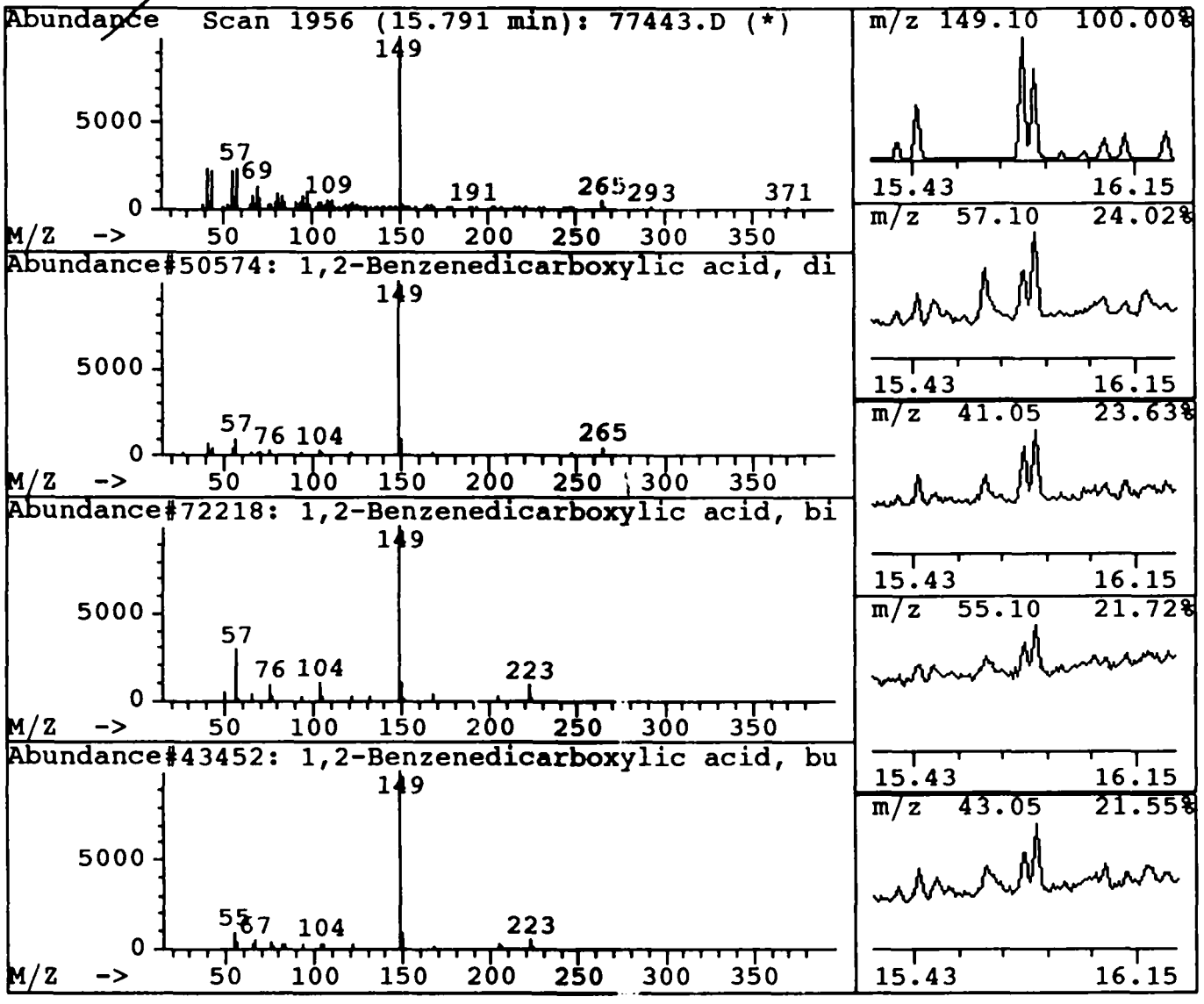
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 11 13:06:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
~~15.83~~ (5.79)	~~40.00~~ 5.65 ug/mL	~~2956769~~ 47452	CI70 Chrysene-d12	~~104701~~ 2956769

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, dihep	50574	003648-21-3	72
2	1,2-Benzenedicarboxylic acid, bis(2	72218	000084-69-5	59
3	1,2-Benzenedicarboxylic acid, butyl	43452	000084-64-0	59
4	1,2-Benzenedicarboxylic acid, decyl	55241	000119-07-3	59
5	1,2-Benzenedicarboxylic acid, butyl	50567	000089-18-9	59



Tentatively Identified Compound (LSC)

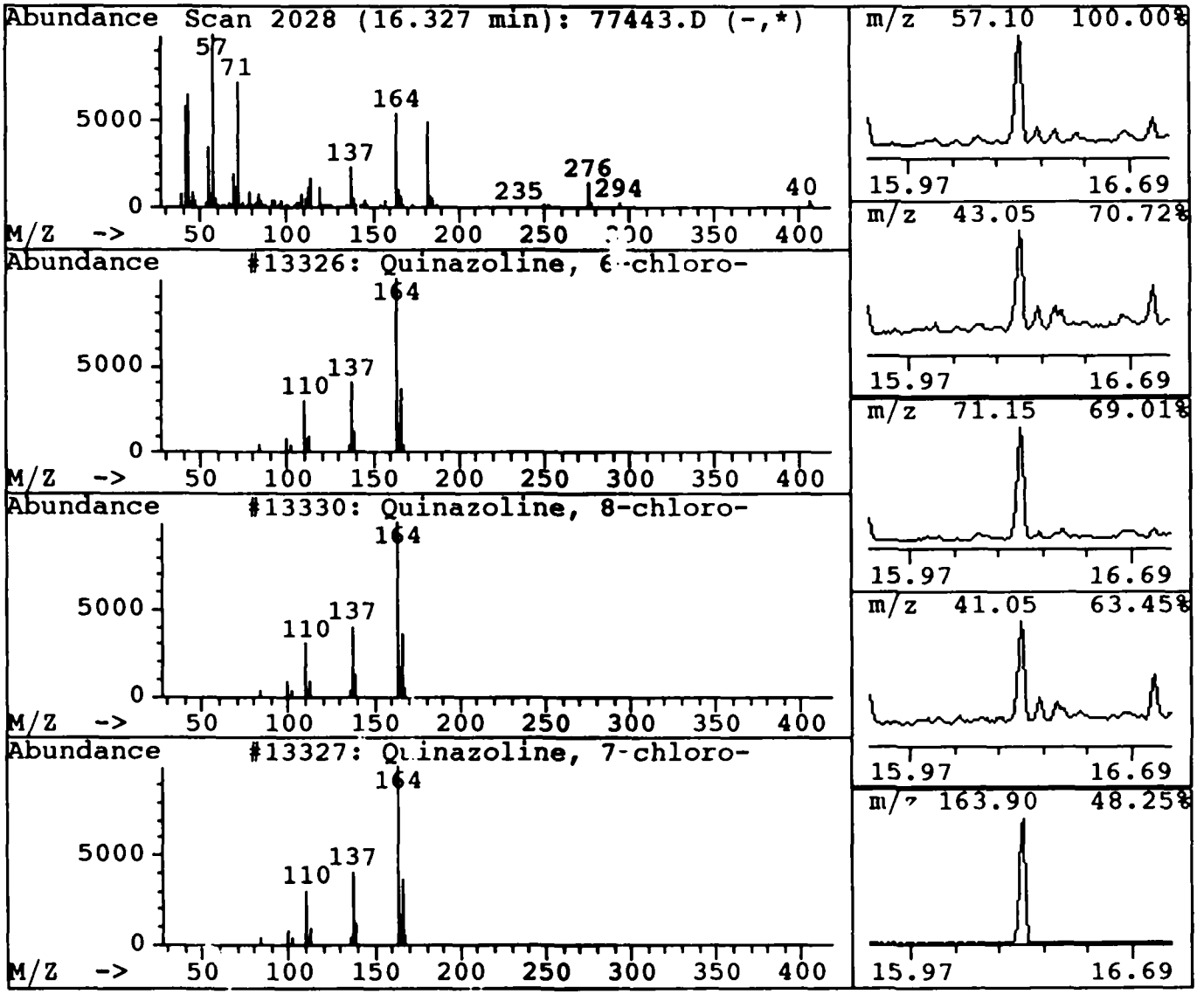
000320

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.33	21.99 ug/mL	1625521	C170 Chrysene-d12	2956769

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Quinazoline, 6-chloro-	13326	000700-78-7	22
2	Quinazoline, 8-chloro-	13330	007557-04-2	22
3	Quinazoline, 7-chloro-	13327	007556-99-2	22
4	Quinazoline, 5-chloro-	13325	007556-90-3	22
5	Butanoic acid, 2-hexenyl ester, (E)	68205	053398-83-7	11



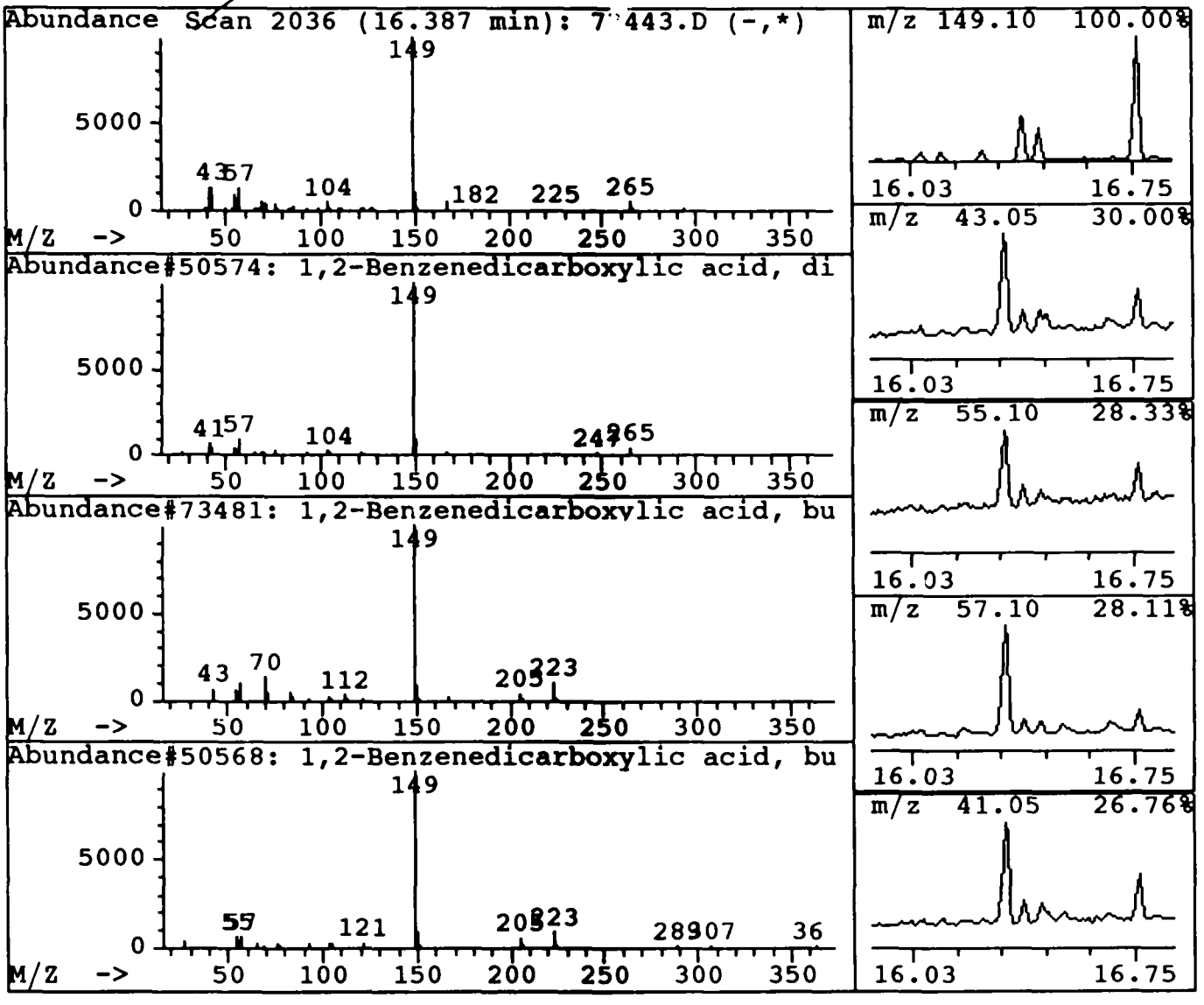
Tentatively Identified Compound (LSC) 000321

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FFR90 EXT033096
Misc: HP6*USEPA*1542 .06*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.39	6.22 ug/mL	459691	C170 Chrysene-d12	2956769

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, dihep	50574	003648-21-3	83
2	1,2-Benzenedicarboxylic acid, butyl	73481	000085-69-8	72
3	1,2-Benzenedicarboxylic acid, butyl	50568	000089-19-0	72
4	1,2-Benzenedicarboxylic acid, isode	55239	001330-96-7	72
5	Bis(2-methoxyethyl) phthalate	39720	000117-82-8	64



Tentatively Identified Compound (LSC)

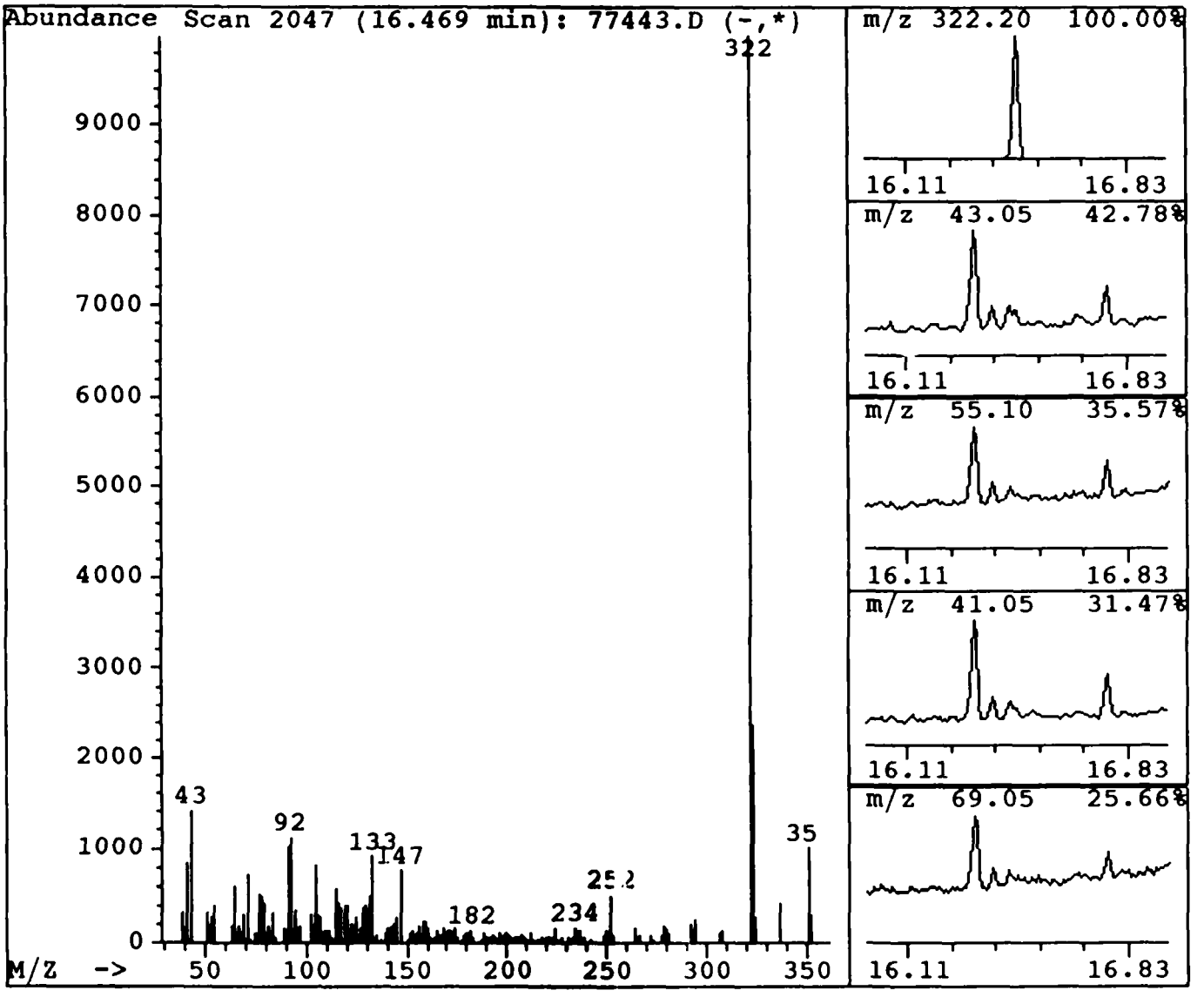
000322

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.47	20.14 ug/mL	1488405	CI70 Chrysene-d12	2956769

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



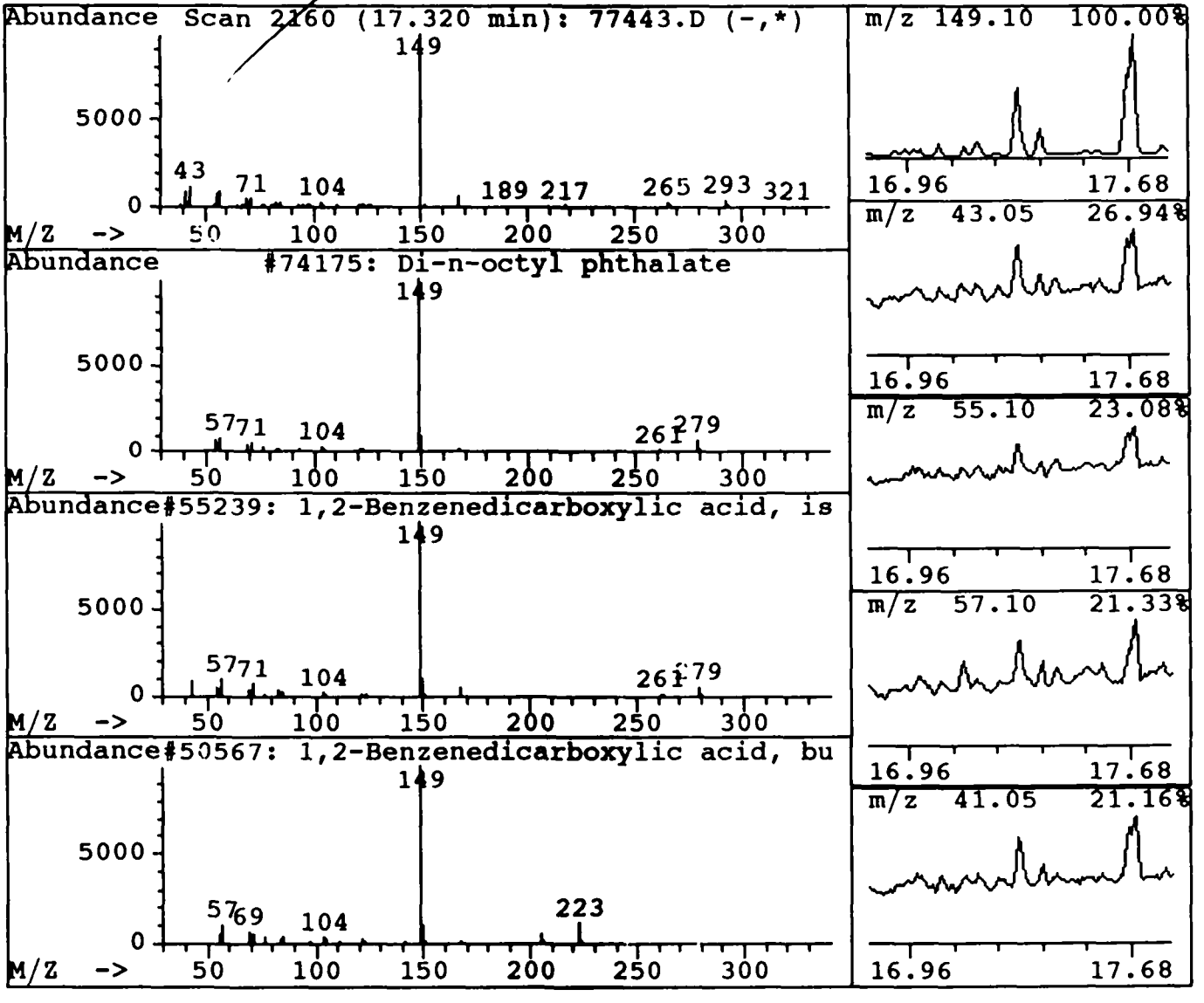
Tentatively Identified Compound (LSC) 000323

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*M8517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:20:11 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.32	11.74 ug/mL	1811774	CI75 Perylene-d12	6172352

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Di-n-octyl phthalate	74175	000117-84-0	72
2	1,2-Benzenedicarboxylic acid, isode	55239	001330-96-7	72
3	1,2-Benzenedicarboxylic acid, butyl	50567	000089-18-9	64
4	1,2-Benzenedicarboxylic acid, butyl	73481	000085-69-8	64
5	1,2-Benzenedicarboxylic acid, butyl	47487	000085-69-8	64



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:02

000324

Data File: C:\CHEMPC\DATA\040596\77443.D

Name: FER90 EXT033096

Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS5U7

Method: OLMO3_1.M Inst: HP6

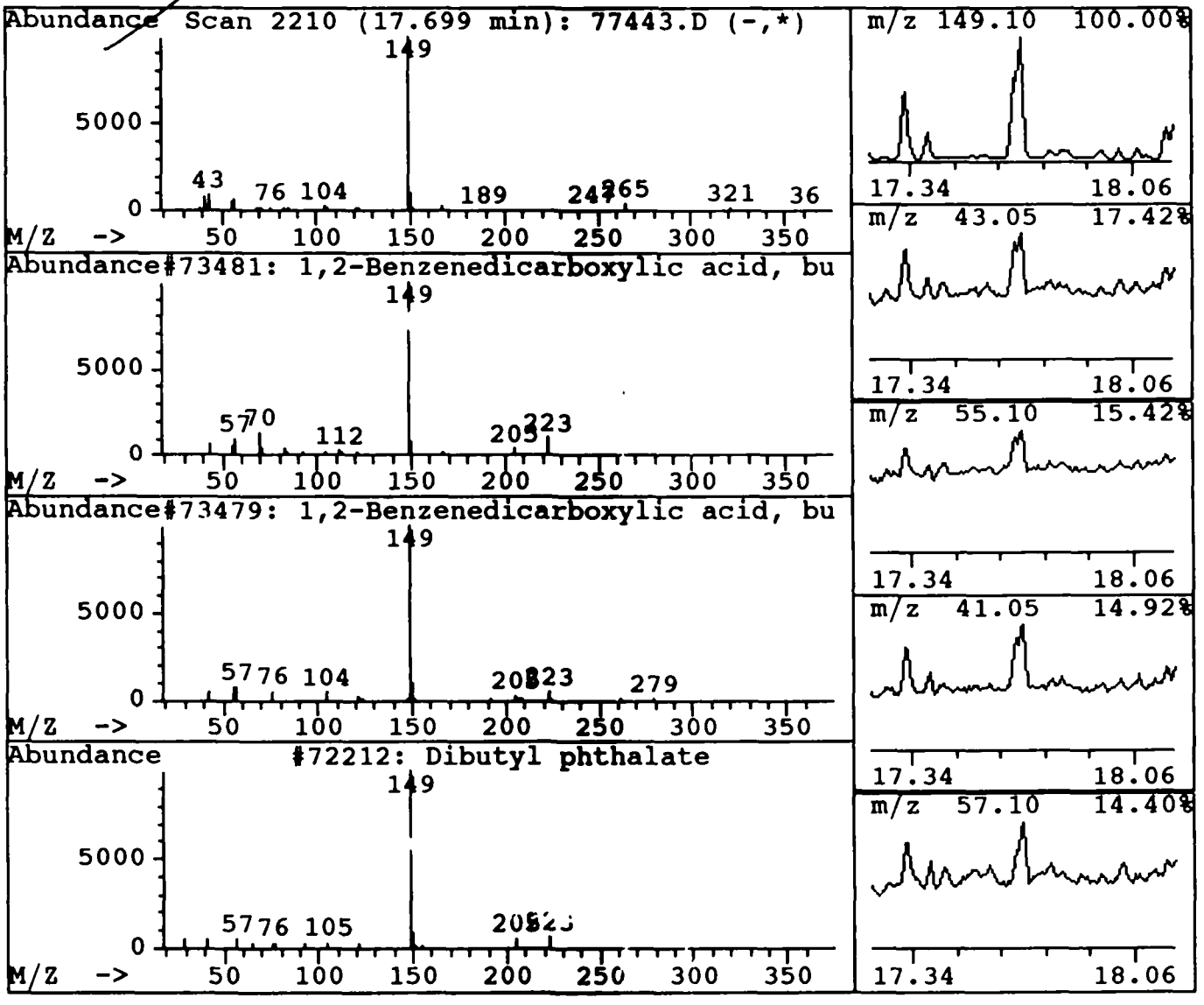
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.70	40.00 ug/mL	6172352	CI75 Perylene-d12	6172352

Hit# of 16	Tentative ID	Ref#	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, butyl	73481	000085-69-8	50
2	1,2-Benzenedicarboxylic acid, butyl	73479	000084-78-6	39
3	Dibutyl phthalate	72212	000084-74-2	39
4	Dibutyl phthalate	72214	000084-74-2	39
5	1,2-Benzenedicarboxylic acid, dipro	71449	000131-16-8	38



Tentatively Identified Compound (LSC)

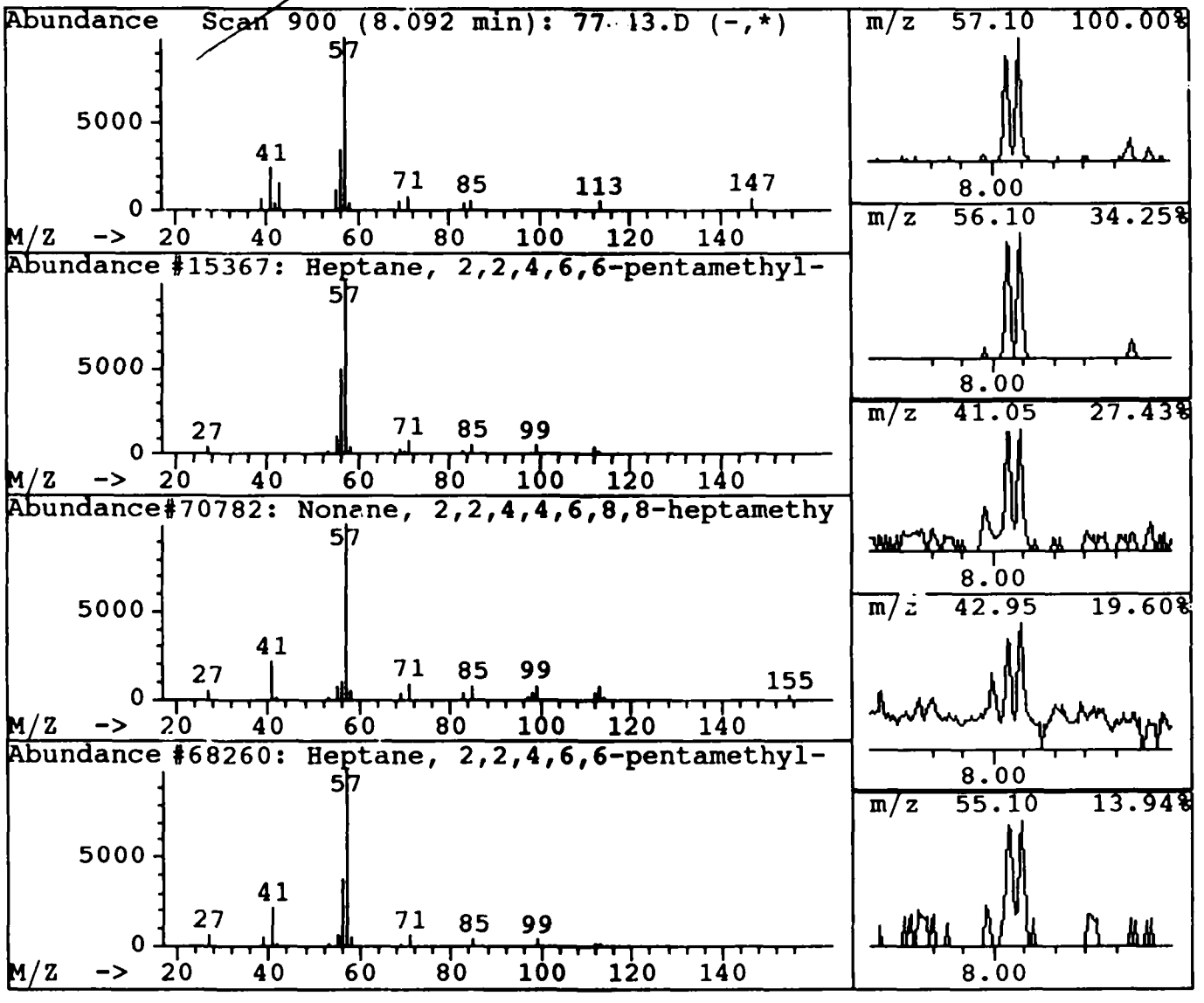
000325

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.09	6.16 ug/mL	138839	CI40 Naphthalene-d8	901789

Hit# of 15	Tentative ID	Ref#	CAS#	Qual
1	Heptane, 2,2,4,6,6-pentamethyl-	15367	013475-82-6	50
2	Nonane, 2,2,4,4,6,8,8-heptamethyl-	70782	004390-04-9	45
3	Heptane, 2,2,4,6,6-pentamethyl-	68260	013475-82-6	45
4	1-Butanol, 3,3-dimethyl-	1767	000624-95-3	42
5	1-Hexanol, 3,5,5-trimethyl-	66355	003452-97-9	39



Tentatively Identified Compound (LSC)

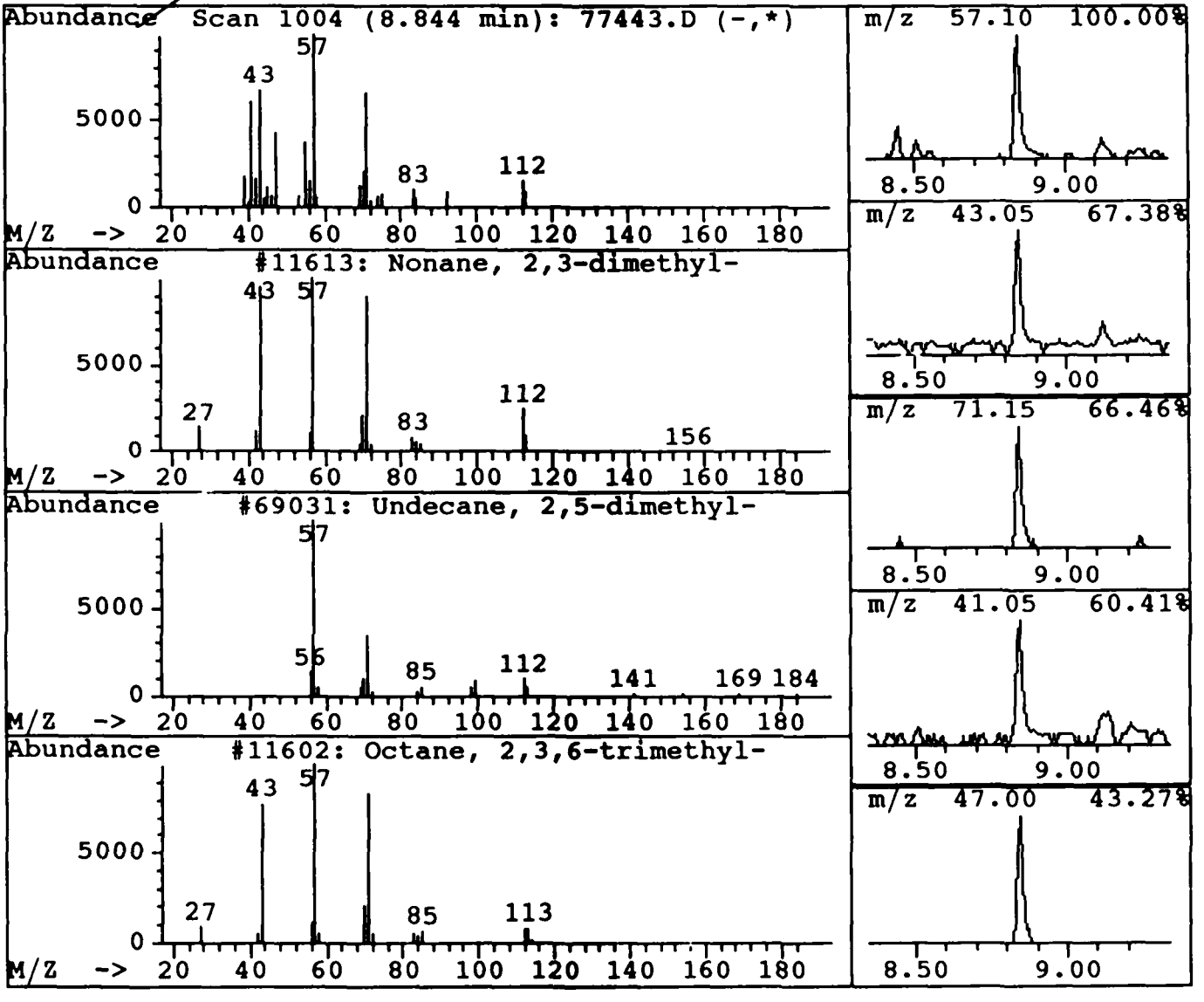
000326

Operator ID: AK Date Acquired: 5 Apr 96 18:02
Data File: C:\CHEMPC\DATA\040596\77443.D
Name: FER90 EXT033096
Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517
Method: OLM03_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
8.84	21.32 ug/mL	160698	C150 Acenaphthene-d10	301451

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonane, 2,3-dimethyl-	11613	002884-06-2	50
2	Undecane, 2,5-dimethyl-	69031	017301-22-3	49
3	Octane, 2,3,6-trimethyl-	11602	062016-33-5	47
4	Decane, 2,6,7-trimethyl-	19027	062108-25-2	47
5	Octane, 1,1'-oxybis-	71251	000629-82-3	43



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:02

000327

Data File: C:\CHEMPC\DATA\040596\77443.D

Name: FER90 EXT033096

Misc: HP6*USEPA*15427.06*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

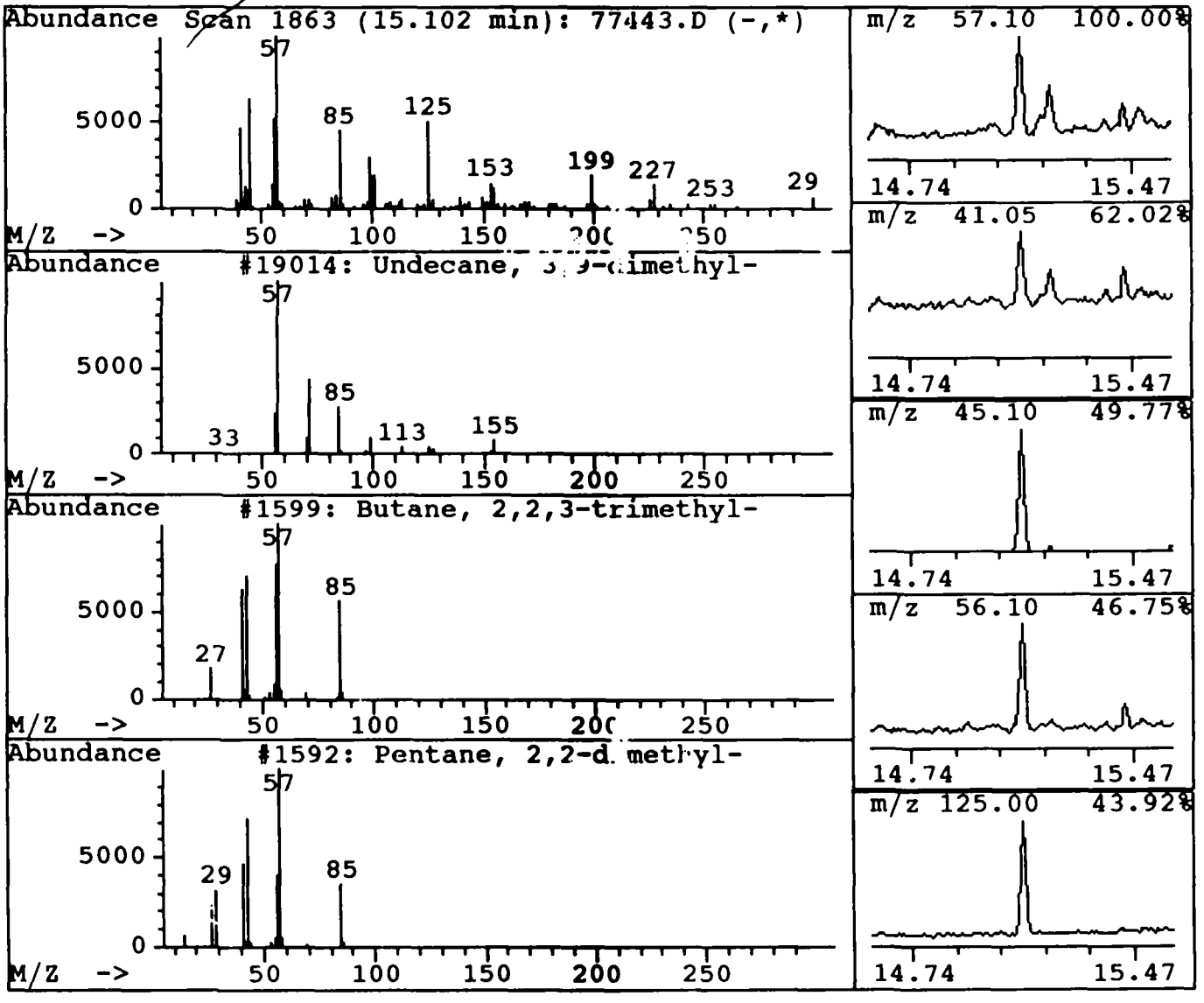
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.10	44.76 ug/mL	3308300	1.70 Chrysene-d12	2956769

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Undecane, 3,9-dimethyl-	19014	017301-31-4	22
2	Butane, 2,2,3-trimethyl-	1599	000464-06-2	14
3	Pentane, 2,2-dimethyl-	1592	000590-35-2	14
4	Butane, 2,2,3-trimethyl-	63437	000464-06-2	14
5	2-Propanone, ethylhydrazone	1488	007422-99-3	14



1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000330 EPA SAMPLE NO.

FER91

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542707

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77444

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0 ~~0.5~~ 2 4/16/96

GPC Cleanup: (Y/N) Y pH: 8.0

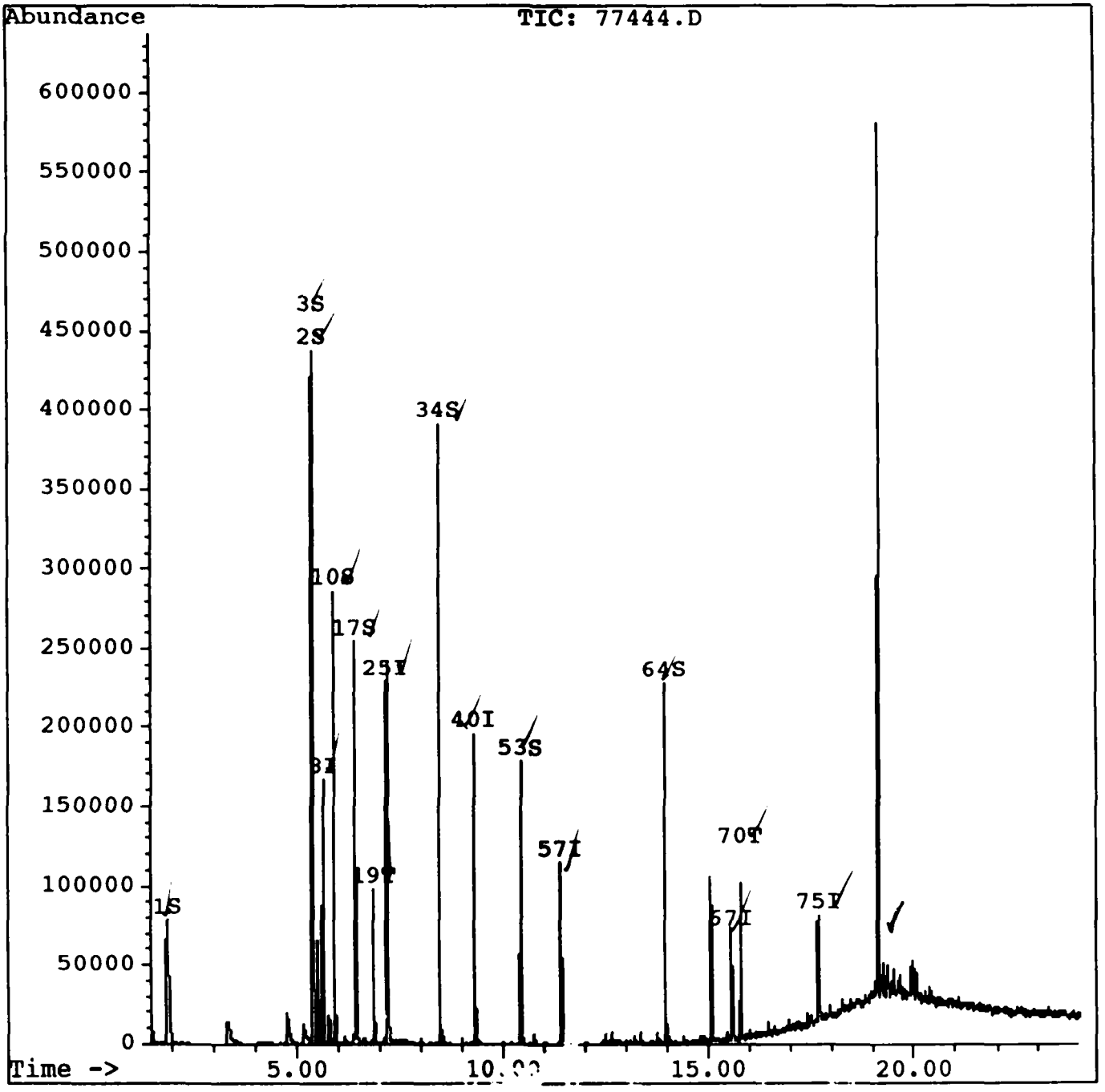
Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	3.33	250	ABJ
2.	Aldol condensation	4.75	220	ABJ
3.	Unknown	5.13	170	J
4.	Aldol condensation	5.50	300	ABJ
5.	Aldol condensation	5.77	94	AJ
6.	Unknown	7.20	780	J
7.	Unknown	19.17	660	J

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 18:33
Data File: C:\CHEMPC\DATA\040596\77444.D
Name: FER91 EXT033096
Misc: HP6*USEPA*15427.07*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 18:33

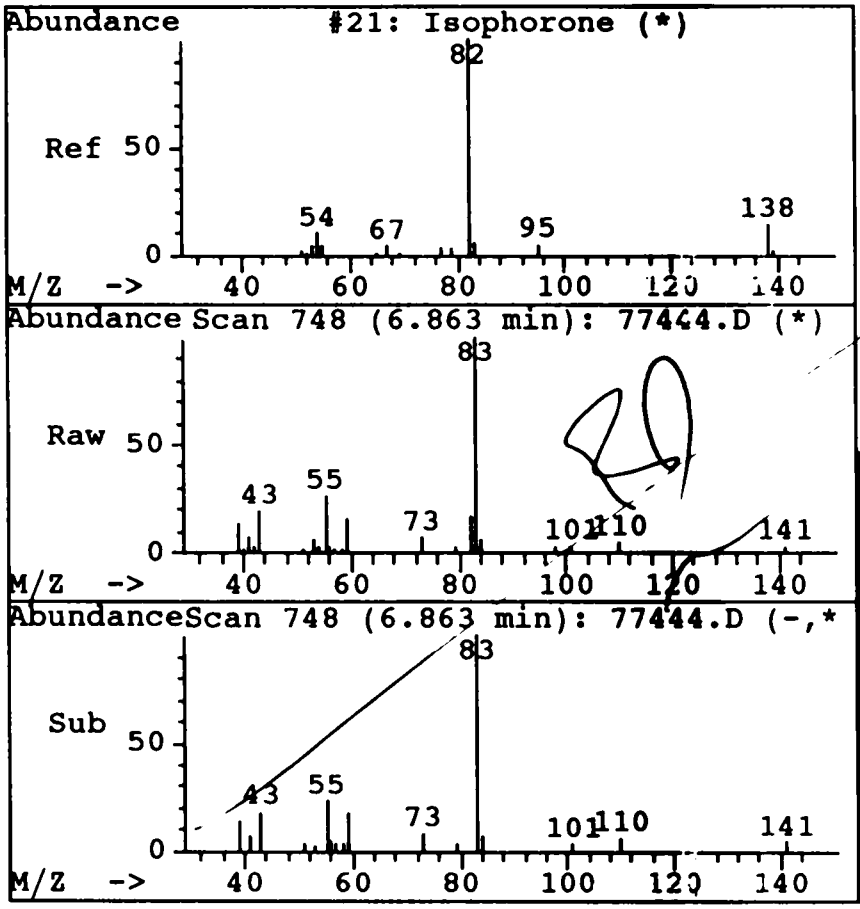
000332

Data File: C:\CHEMPC\DATA\040596\77444.D
Name: FER91 EXT033096
Misc: HP6*USEPA*15427.07*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:36:10 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	42041	40.00	ug/mL	0.02
25) CI40 Naphthalene-d8	7.16	136	123078	40.00	ug/mL	0.01
40) CI50 Acenaphthene-d10	9.31	164	58668	40.00	ug/mL	0.02
57) CI60 Phenanthrene-d10	11.42	188	72387	40.00	ug/mL	0.02
67) CI70 Chrysene-d12	15.58	240	48512	40.00	ug/mL	0.02
75) CI75 Perylene-d12	17.70	264	58189	40.00	ug/mL	0.02
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.88	112	80516	105.87	ug/mL	70.58%
2) CS45 Phenol-d5	5.39	99	133120	96.98	ug/mL	64.66%
3) CS70 2-Chlorophenol-d4	5.37	132	128721	108.46	ug/mL	72.31%
10) CS75 1,2-Dichlorobenzene-d	5.95	152	58112	66.28	ug/mL	66.28%
17) CS20 Nitrobenzene-d5	6.41	82	97148	67.28	ug/mL	67.28%
34) CS25 2-Fluorobiphenyl	9.45	172	148104	75.07	ug/mL	75.07%
53) CS55 2,4,6-Tribromophenol	10.44	330	31832	122.39	ug/mL	81.59%
64) CS30 Terphenyl-d14	13.97	244	103002	98.49	ug/mL	98.49% ✓
Target Compounds						ISTD#
~~19) C415 Isophorone~~	~~6.86~~	~~82~~	~~7706~~	~~3.66~~	~~ug/mL~~	002#
70) C745 bis(2-Ethylhexyl)phth	15.81	149	34223	28.11	ug/mL	005

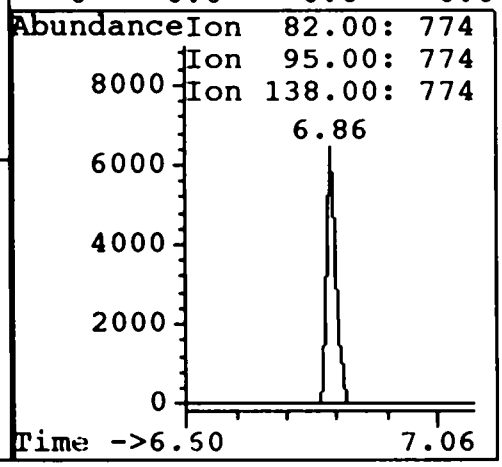
M = FALSE POSITIVE

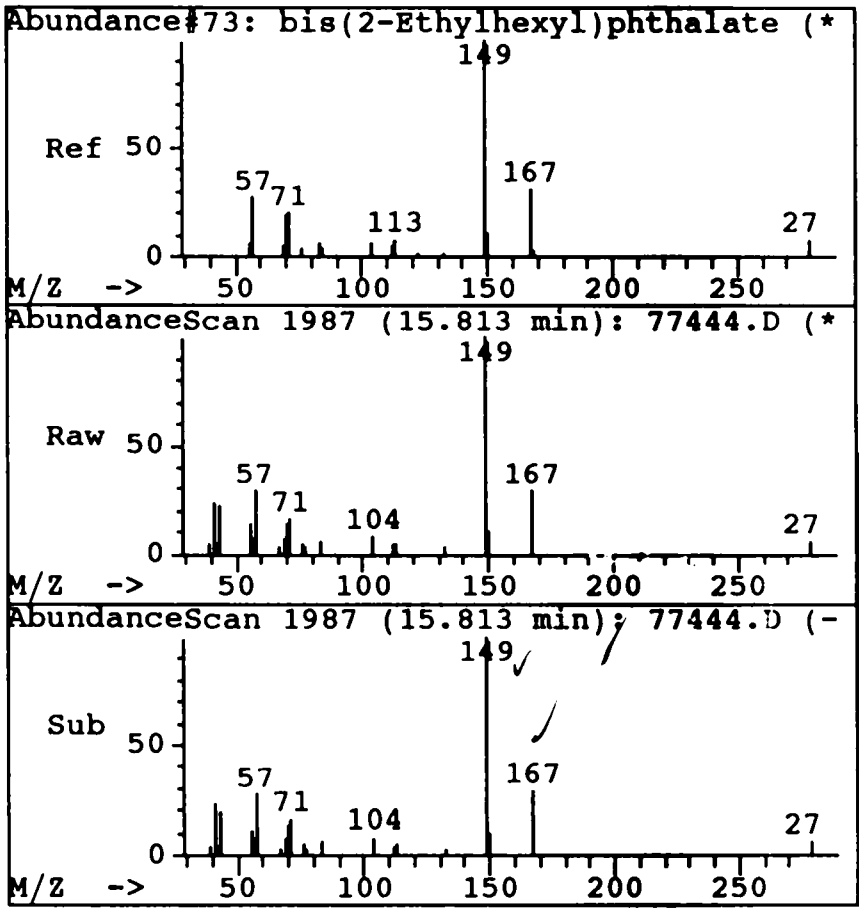
(#) = qualifier out of range



#19 Inst: HP6
C415 Isophorone
Concen: 3.66 ug/mL
RT: 6.86 min Scan# 748
Delta R.T. 0.18 min
Lab File: 77444.D
Acq: 5 Apr 96 18:33
FER91
Tgt Ion: 82 Area: 7706

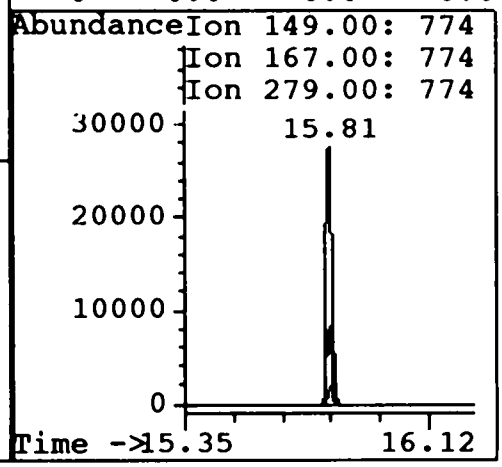
Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	0.0	0.0	35.2
0	0.0	0.0	0.0





#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 28.11 ug/mL
RT: 15.81 min Scan# 1987
Delta R.T. 0.01 min
Lab File: 77444.D
Acq: 5 Apr 96 18:33
FER91
Tgt Ion: 149 Area: 34223

Ion	Ratio	Lower	Upper
149	100		
167	26.8	13.5	53.5
279	5.2	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 18:33

000334

Data File: C:\CHEMPC\DATA\040596\77444.D

Name: FER91 EXT033096

Misc: HP6*USEPA*15427.07*30.00g/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

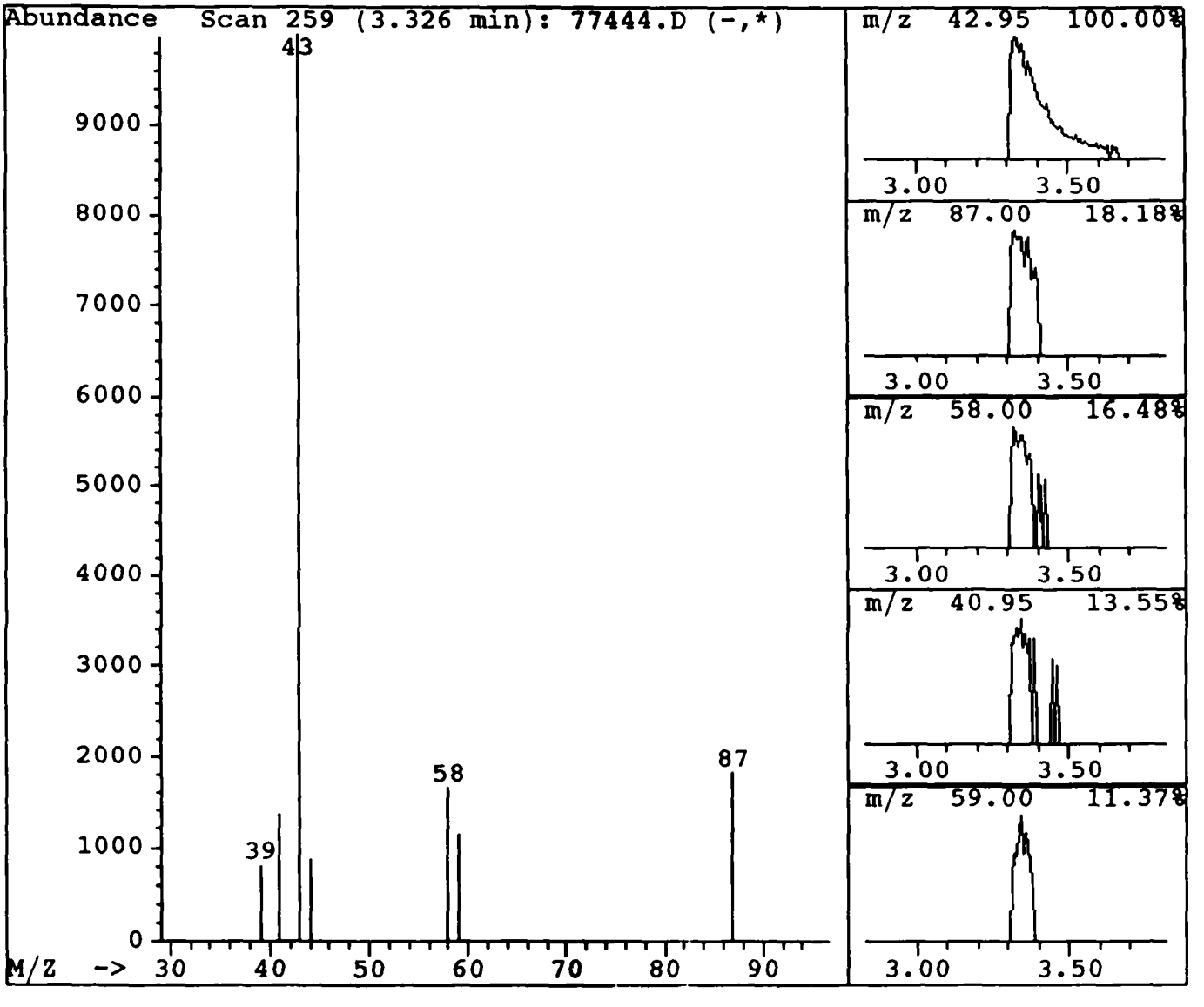
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.33	12.78 ug/mL	85891	CI30 1,4-Dichlorobenzene-	268745

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

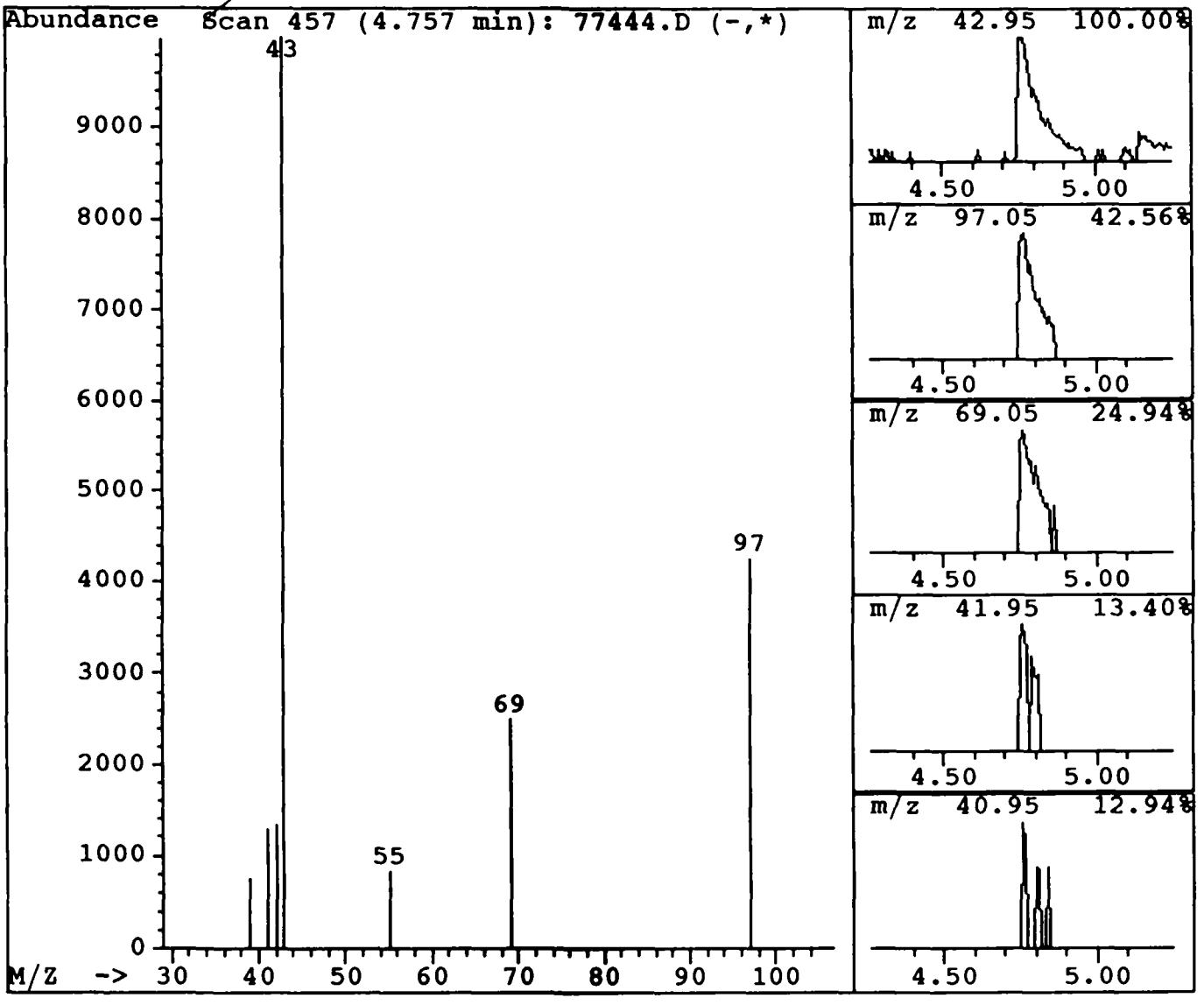
000335

Operator ID: AK Date Acquired: 5 Apr 96 18:33
Data File: C:\CHEMPC\DATA\040596\77444.D
Name: FER91 EXT033096
Misc: HP6*USEPA*15427.07*30.00g/0.5ml/2uIL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.76	11.31 ug/mL	75994	CI30 1,4-Dichlorobenzene-	268745

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

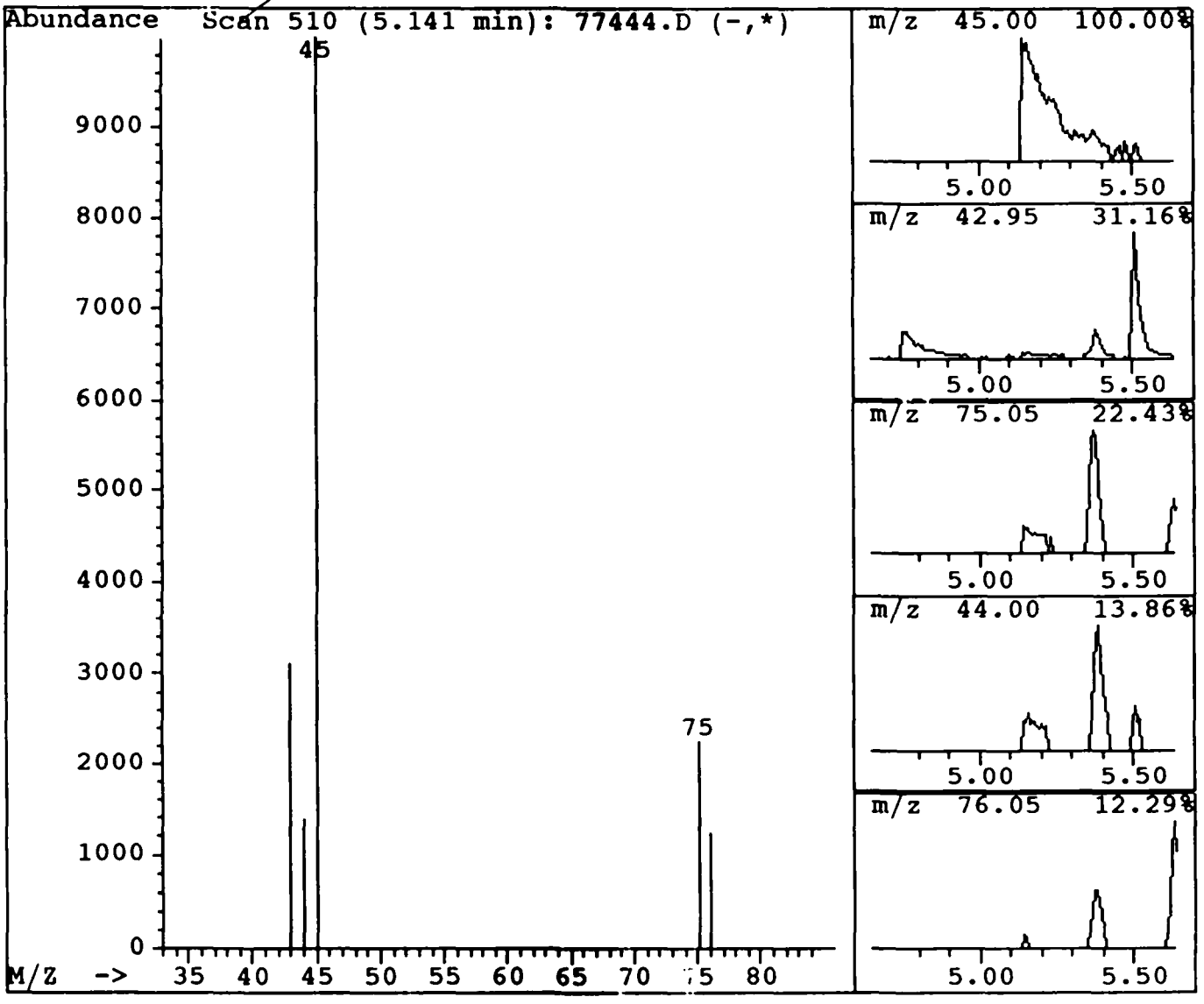
000336

Operator ID: AK Date Acquired: 5 Apr 96 18:33
Data File: C:\CHEMPC\DATA\040596\77444.D
Name: FER91 EXT033096
Misc: HP6*USEPA*15427.07*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.14	9.00 ug/mL	60476	CI30 1,4-Dichlorobenzene-	268745

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown			000000-00-0	0



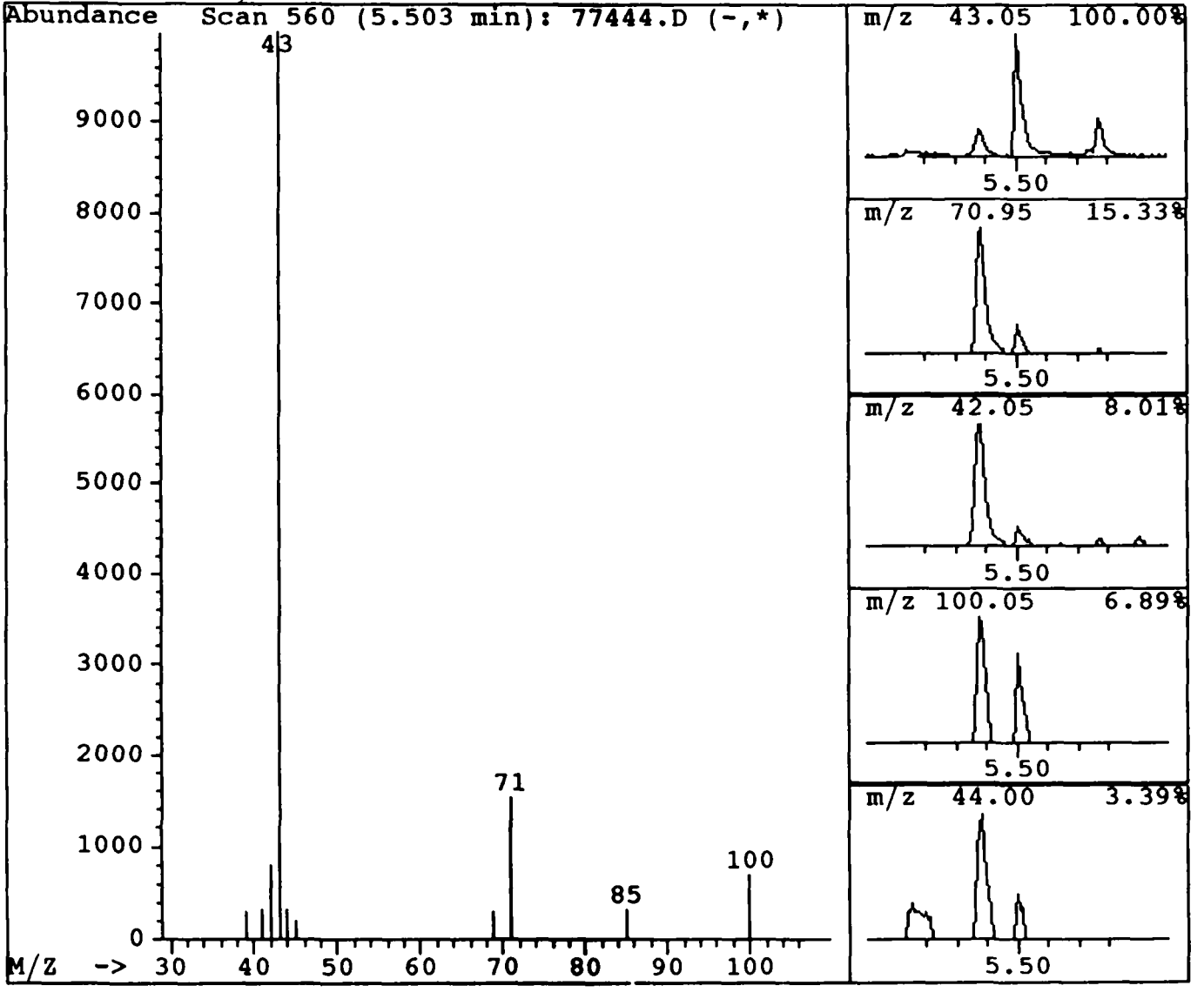
Tentatively Identified Compound (LSC) **000337**

Operator ID: AK Date Acquired: 5 Apr 96 18:33
Data File: C:\CHEMPC\DATA\040596\77444.D
Name: FER91 EXT033096
Misc: HP6*USEPA*15427.07*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.50	15.35 ug/mL	103145	CI30 1,4-Dichlorobenzene-	268745

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

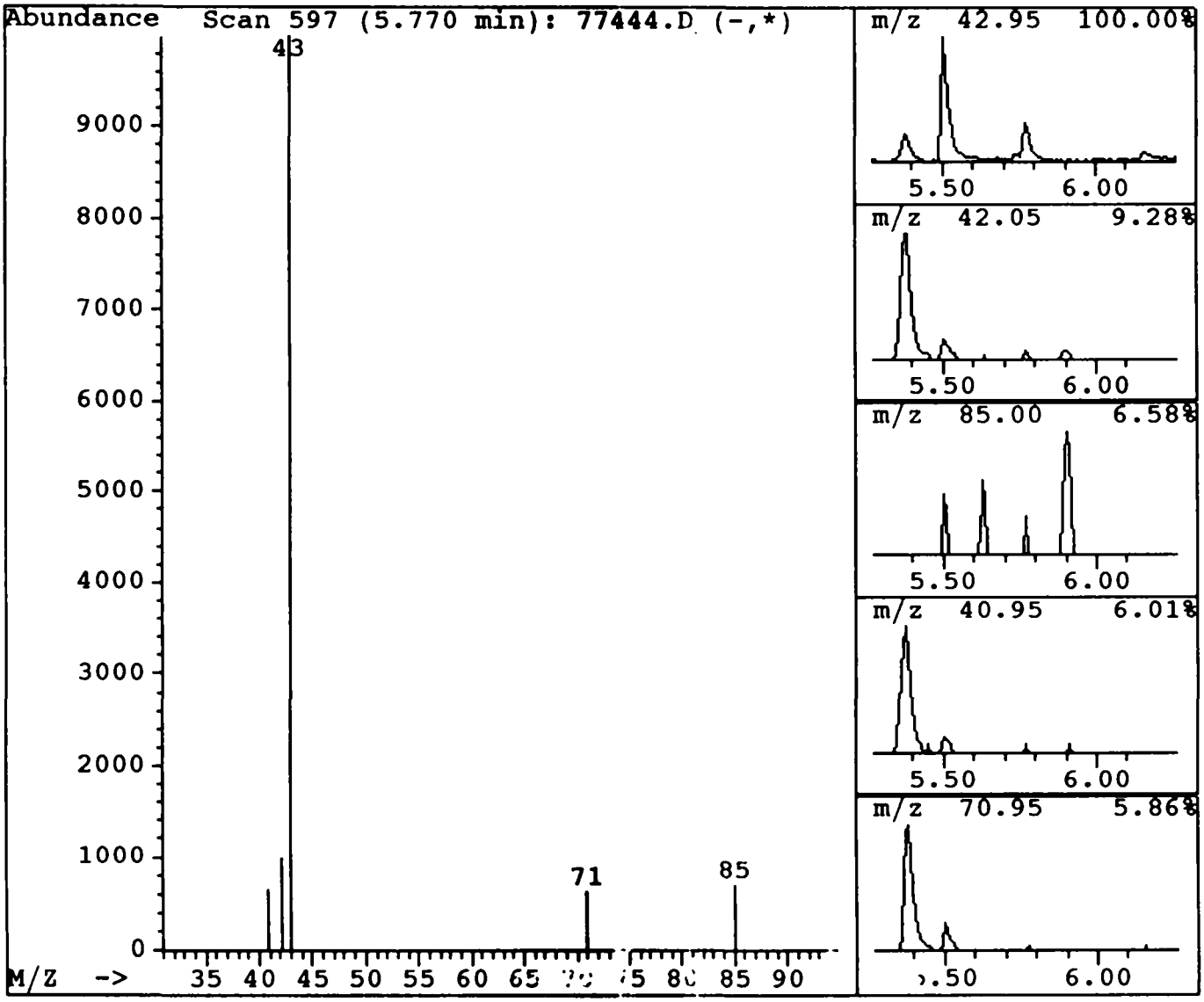
000338

Operator ID: AK Date Acquired: 5 Apr 96 18:33
Data File: C:\CHEMPC\DATA\040596\77444.D
Name: FER91 EXT033096
Misc: HP6*USEPA*15427.07*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	4.86 ug/mL	32644	CI30 1,4-Dichlorobenzene-	268745

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

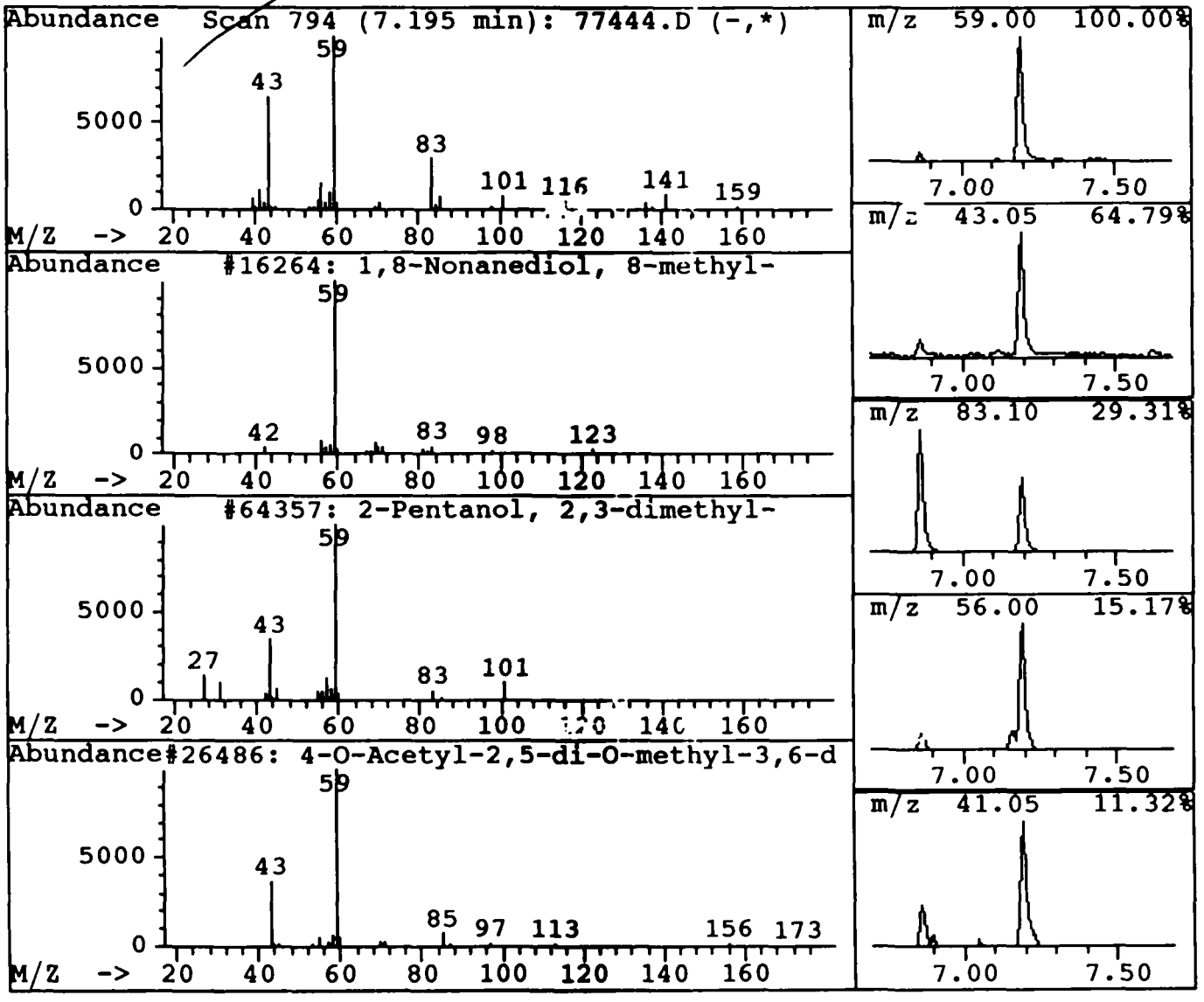
000339

Operator ID: AK Date Acquired: 5 Apr 96 18:33
Data File: C:\CHEMPC\DATA\040596\77444.D
Name: FER91 EXT033096
Misc: HP6*USEPA*15427.07*30.00g/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.20	40.00 ug/mL	576049	CI40 Naphthalene-d8	576049

Hit# of 14	Tentative ID	Ref#	CAS#	Qual
1	1,8-Nonanediol, 8-methyl-	16264	054725-73-4	42
2	2-Pentanol, 2,3-dimethyl-	64357	004911-70-0	38
3	4-O-Acetyl-2,5-di-O-methyl-3,6-dide	26486	000000-00-0	38
4	4-Pentene-2-ol, 2-methyl	1529	000624-97-5	37
5	3-Decanol	12061	001565-81-7	36



Tentatively Identified Compound (LSC)

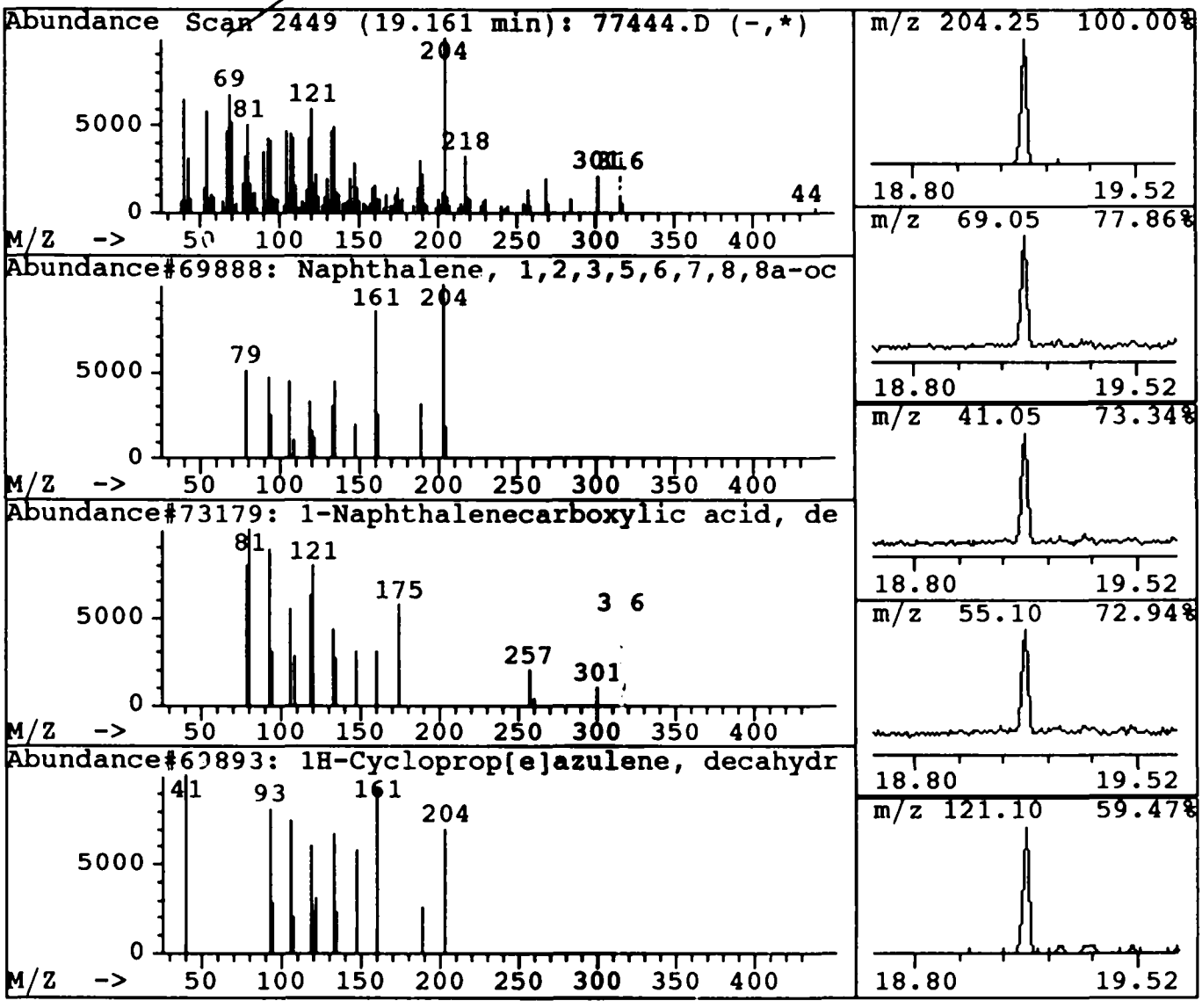
000340

Operator ID: AK Date Acquired: 5 Apr 96 18:33
Data File: C:\CHEMPC\DATA\040596\77444.D
Name: FER91 EXT033096
Misc: HP6*USEPA*15427.07*30.00g/0.5ml/2uLL*MS517
Method: OLM03_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:39:10 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.16	34.12 ug/mL	738343	CI75 Perylene-d12	865672

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	69888	004630-07-3	50
2	1-Naphthalenecarboxylic acid, decah	73179	015798-13-7	46
3	1H-Cycloprop[e]azulene, decahydro-1	69893	025246-27-9	45
4	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	69953	000489-40-7	45
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	69950	000489-40-7	41



Tentatively Identified Compound (LSC)

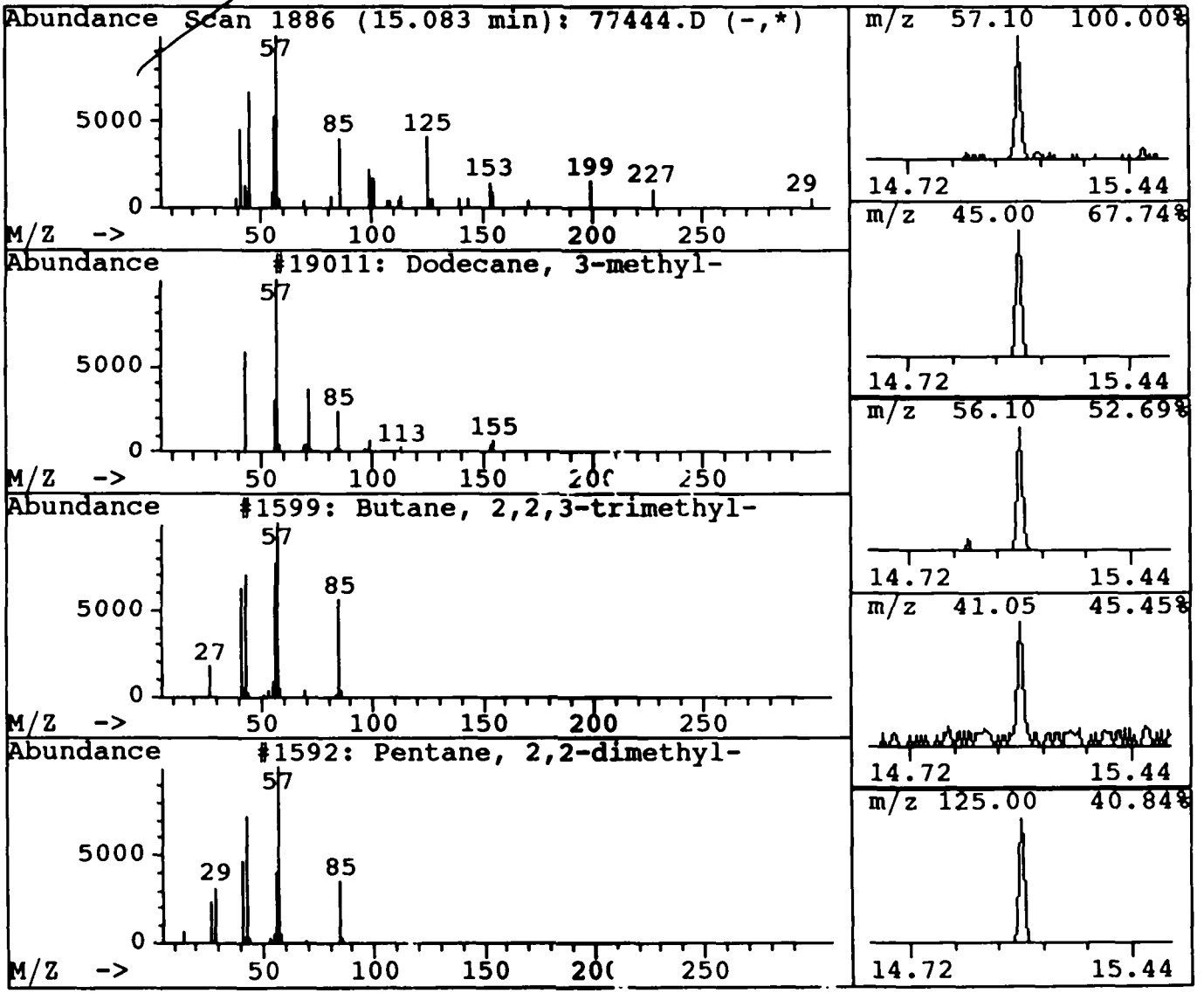
Operator ID: AK Date Acquired: 5 Apr 96 18:33
Data File: C:\CHEMPC\DATA\040596\77444.D
Name: FER91 EXT033096
Misc: HP6*USEPA*15427.07*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 15:38:10 1996

000341

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	42.76 ug/mL	141873	CI70 Chrysene-d12	132717

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Dodecane, 3-methyl-	19011	017312-57-1	22
2	Butane, 2,2,3-trimethyl-	1599	000464-06-2	22
3	Pentane, 2,2-dimethyl-	1592	000590-35-2	12
4	Butane, 2,2,3-trimethyl-	63437	000464-06-2	12
5	Butane, 2,2,3-trimethyl-	63436	000464-06-2	12



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000342 EPA SAMPLE NO.

FER92

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77502

Level: (low/med) LOW Date Received: 03/29/96 ✓

% Moisture: 18 decanted: (Y/N) N Date Extracted: 04/02/96 ✓

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96 ✓

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/8/96

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG ✓	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	400	U
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	400	U
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000343

EPA SAMPLE NO.

FER92

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77502

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 04/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 1 4/4/96

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	400	U
120-12-7	Anthracene	400	U
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	400	U
129-00-0	Pyrene	400	U
85-68-7	Butylbenzylphthalate	400	U
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	400	U
218-01-9	Chrysene	400	U
117-81-7	bis(2-Ethylhexyl)phthalate	620	B
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	400	U
207-08-9	Benzo(k)fluoranthene	400	U
50-32-8	Benzo(a)pyrene	400	U
193-39-5	Indeno(1,2,3-cd)pyrene	400	U
53-70-3	Dibenz(a,h)anthracene	400	U
191-24-2	Benzo(g,h,i)perylene	400	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000344
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FER92

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542708

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77502

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 18 decanted: (Y/N) N Date Extracted: 04/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ 1.0 5

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.42	430	ABJ
2.		Aldol condensation	4.75	290	ABJ
3.		Unknown	5.18	110	J
4.		Aldol condensation	5.52	570	ABJ
5.		Aldol condensation	5.77	170	AJ
6.		Unknown	7.18	810	J
7.		Unknown	13.78	190	J
8.		Unknown	19.15	1300	J
9.		Unknown	20.37	530	J
10.		Unknown	20.72	1100	J

QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 20:08

Data File: C:\CHEMPC\DATA\041096\77502.D

000345

Name: FER92 EXT040296

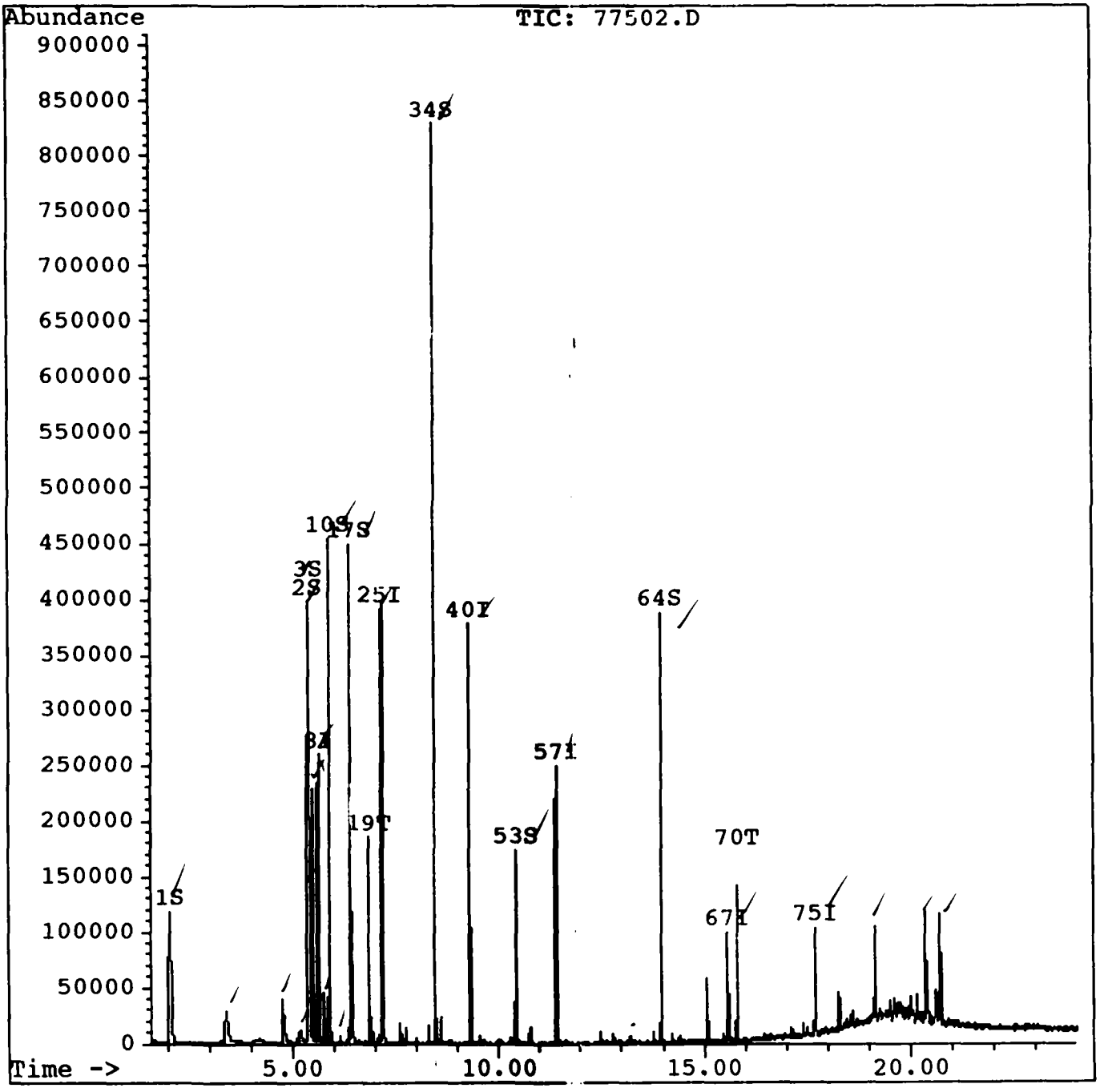
Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Quantitated using Single Level Calibration



QUANT REPORT

000346

Operator ID: AK Date Acquired: 10 Apr 96 20:08
Data File: C:\CHEMPC\DATA\041096\77502.D
Name: FER92 EXT040296
Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996
Quantitated using Single Level Calibration

Internal Standards

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8)	CI30 1,4-Dichlorobenzene-d	5.64	152	57161	40.00	ug/mL	0.04
25)	CI40 Naphthalene-d8	7.15	136	187675	40.00	ug/mL	0.02
40)	CI50 Acenaphthene-d10	9.30	164	90174	40.00	ug/mL	0.02
57)	CI60 Phenanthrene-d10	11.42	188	110673	40.00	ug/mL	0.03
67)	CI70 Chrysene-d12	15.58	240	52205	40.00	ug/mL	0.05
75)	CI75 Perylene-d12	17.71	264	60649	40.00	ug/mL	0.05

041296

System Monitoring Compounds

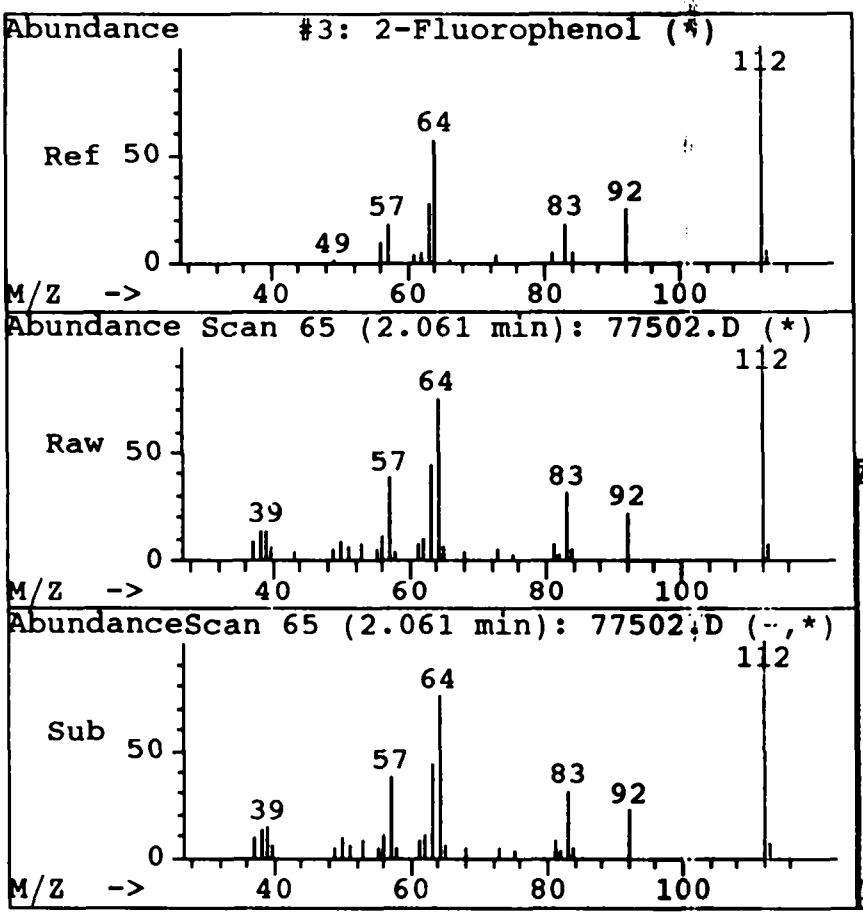
							%Recovery
1)	CS50 2-Fluorophenol	2.06	112	102578	77.30	ug/mL	51.53%
2)	CS70 2-Chlorophenol-d4	5.39	132	156000	85.85	ug/mL	57.24%
3)	CS45 Phenol-d5	5.42	99	186215	86.79	ug/mL	57.86%
10)	CS75 1,2-Dichlorobenzene-d	5.90	152	84004	66.19	ug/mL	66.19%
17)	CS20 Nitrobenzene-d5	6.42	82	174483	78.69	ug/mL	78.69%
34)	CS25 2-Fluorobiphenyl	8.45	172	246189	77.47	ug/mL	77.47%
53)	CS55 2,4,6-Tribromophenol	10.44	330	26472	56.80	ug/mL	37.87%
64)	CS30 Terphenyl-d14	13.97	244	150890	90.06	ug/mL	90.06%

Target Compounds

							ISTD#
~~19)~~	~~C415 Isophorone~~	~~6.86~~	~~82~~	~~12786~~	~~3.43~~	~~ug/mL~~	002#
70)	C745 bis(2-Ethylhexyl)phth	15.81	149	42159	30.53	ug/mL	005

FP FALSE POSITIVE

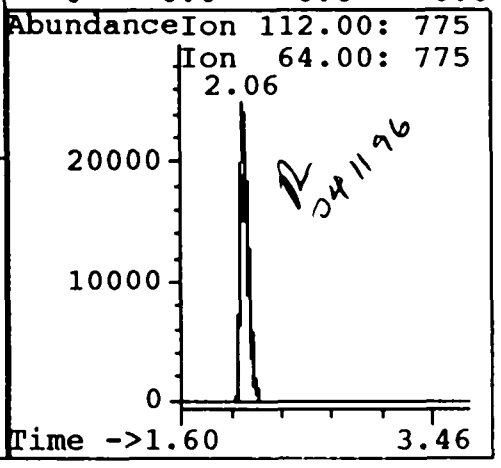
(#) = qualifier out of range

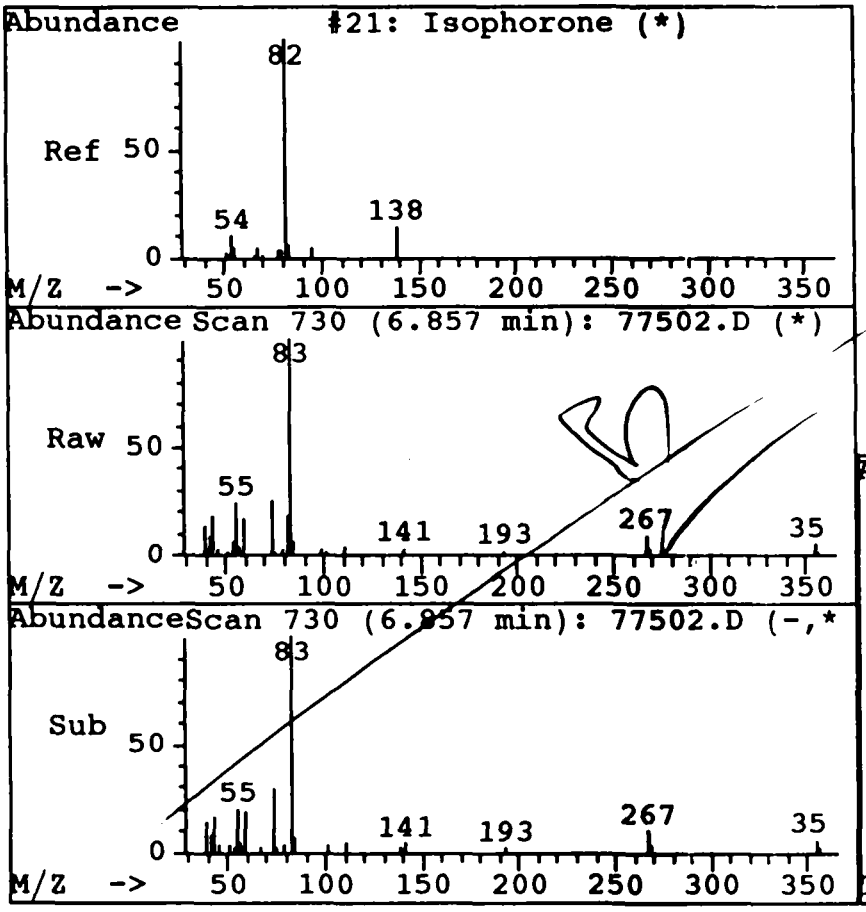


#1 Inst: HP6
CS50 2-Fluorophenol
Concen: 77.30 ug/mL m
RT: 2.06 min Scan# 65
Delta R.T. 0.38 min
Lab File: 77502.D
Acq: 10 Apr 96 20:08
FER92

Tgt Ion: 112 Area: 102578

Ion	Ratio	Lower	Upper
112	100		
64	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

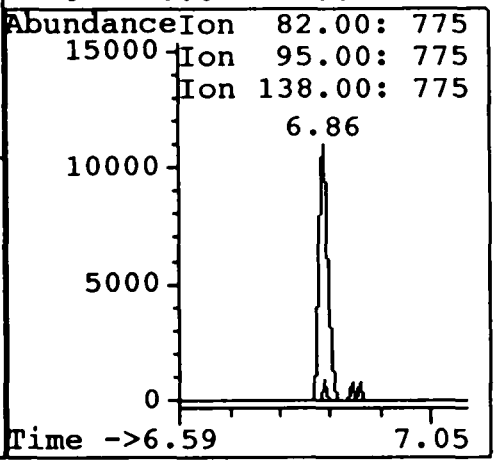


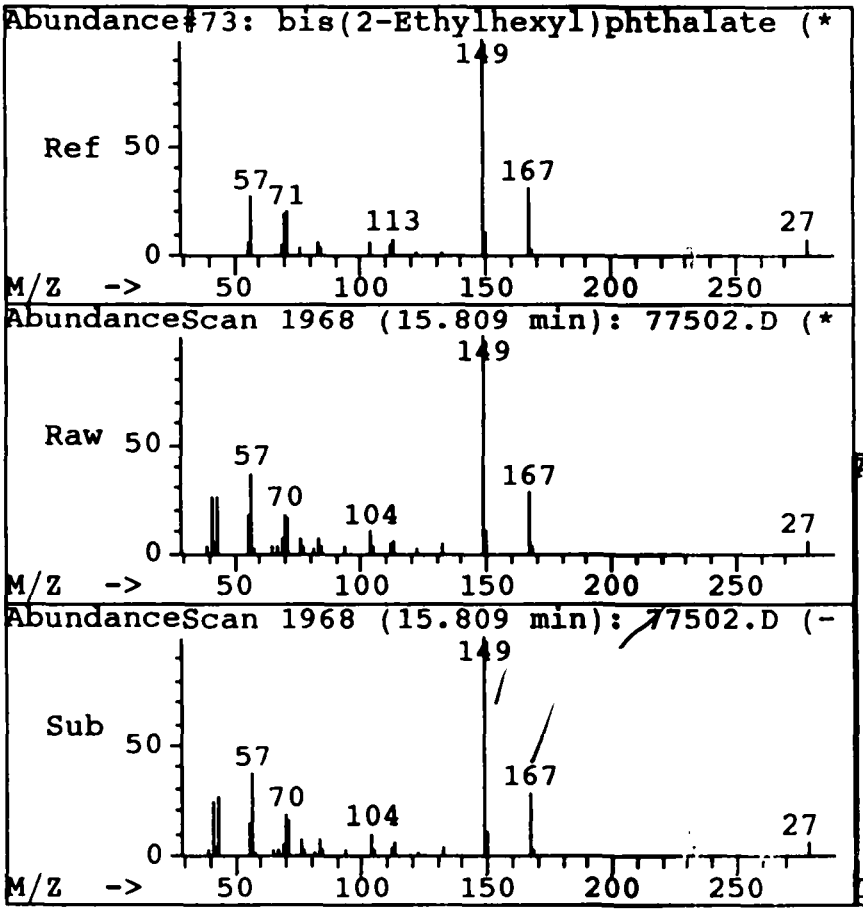


#19 Inst: HP6
C415 Isophorone
Concen: 3.43 ug/mL
RT: 6.86 min Scan# 730
Delta R.T. 0.18 min
Lab File: 77502.D
Acq: 10 Apr 96 20:08
FER92

Tgt Ion: 82 Area: 12786

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	3.0	0.0	35.2
0	0.0	0.0	0.0

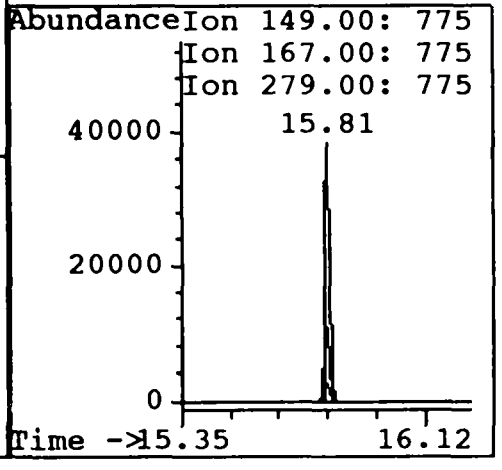




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 30.53 ug/mL
RT: 15.81 min Scan# 1968
Delta R.T. 0.03 min
Lab File: 77502.D
Acq: 10 Apr 96 20:08
FER92

Tgt Ion: 149 Area: 42159

Ion	Ratio	Lower	Upper
149	100		
167	27.2	13.5	53.5
279	5.8	0.0	29.5
0	0.0	0.0	0.0



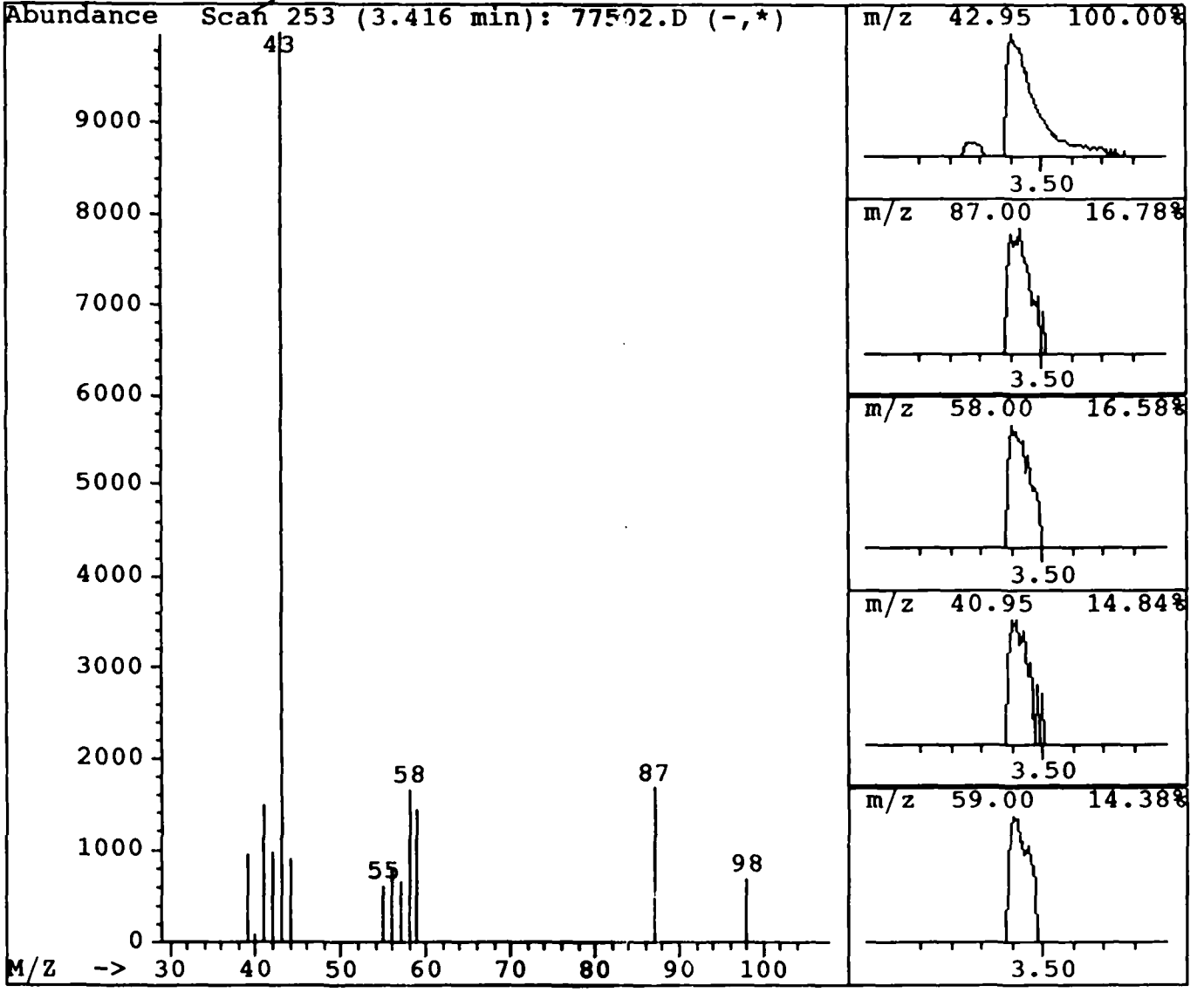
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:08
Data File: C:\CHEMPC\DATA\041096\77502.D
Name: FER92 EXT040296
Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.42	21.25 ug/mL	218050	CI30 1,4-Dichlorobenzene-	410502

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

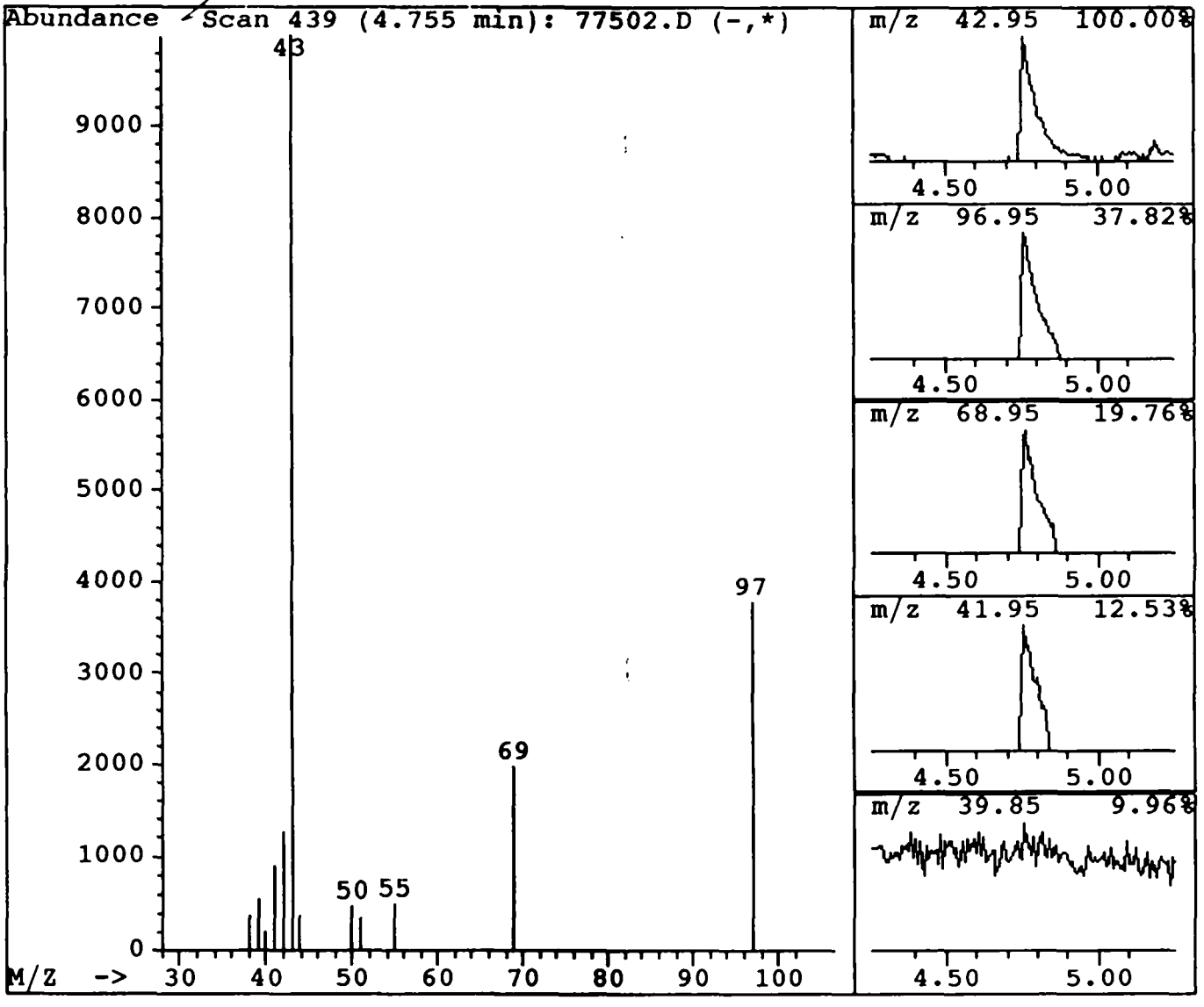
000350

Operator ID: AK Date Acquired: 10 Apr 96 20:08
Data File: C:\CHEMPC\DATA\041096\77502.D
Name: FER92 EXT040296
Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.75	14.03 ug/mL	143988	CI30 1,4-Dichlorobenzene-	410502

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

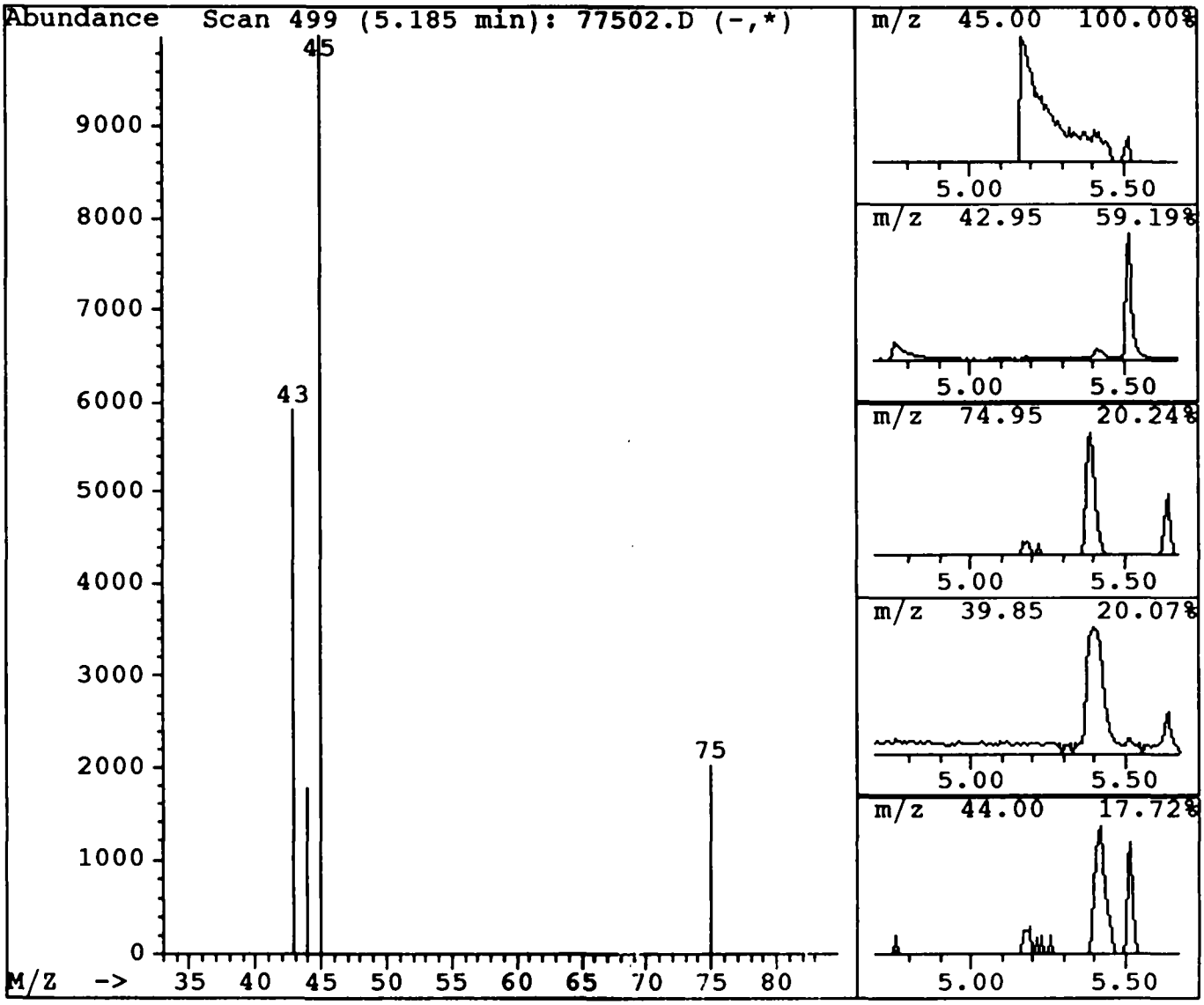
000351

Operator ID: AK Date Acquired: 10 Apr 96 20:08
Data File: C:\CHEMPC\DATA\041096\77502.D
Name: FER92 EXT040296
Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.19	5.18 ug/mL	53116	CI30 1,4-Dichlorobenzene-	410502

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



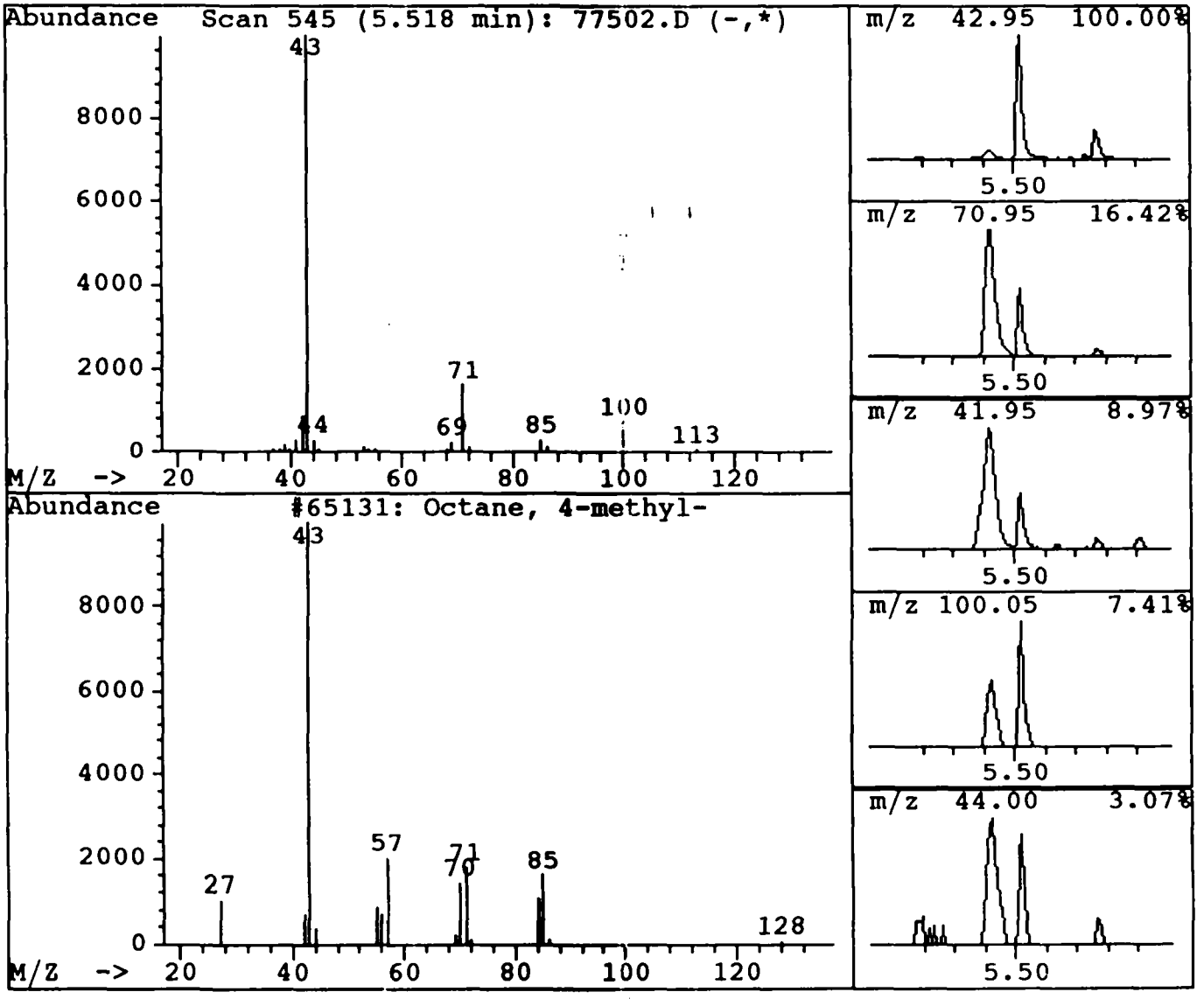
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:08
Data File: C:\CHEMPC\DATA\041096\77502.D
Name: FER92 EXT040296
Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.52	28.24 ug/mL	289772	C130 1,4-Dichlorobenzene-	410502

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-methyl-	65131	002216-34-4	38



Tentatively Identified Compound (LSC)

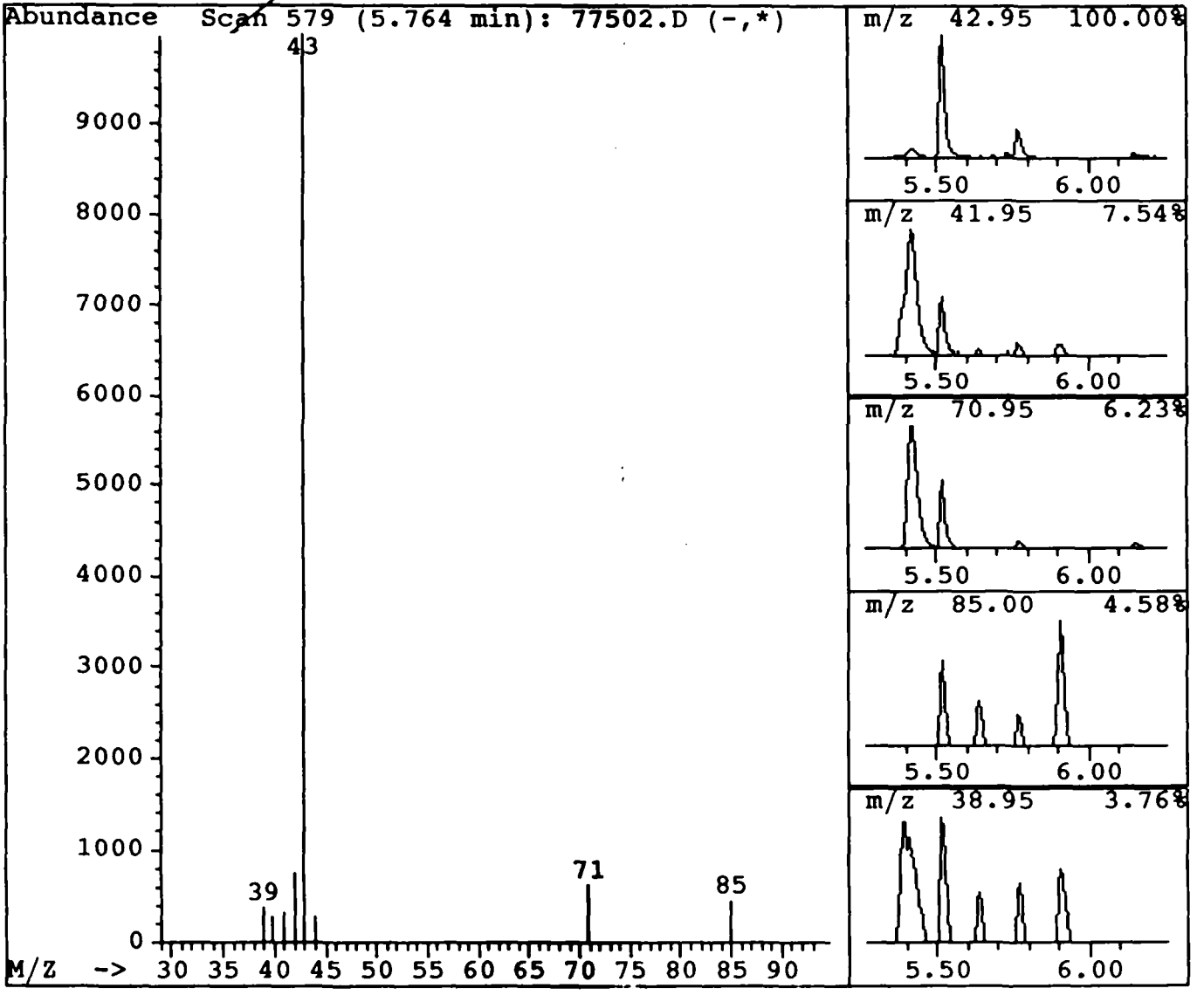
000353

Operator ID: AK Date Acquired: 10 Apr 96 20:08
Data File: C:\CHEMPC\DATA\041096\77502.D
Name: FER92 EXT040296
Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.76	8.29 ug/mL	85042	CI30 1,4-Dichlorobenzene-	410502

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:08

000354

Data File: C:\CHEMPC\DATA\041096\77502.D

Name: FER92 EXT040296

Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517

Method: OLMO3_1.M Inst: HP6

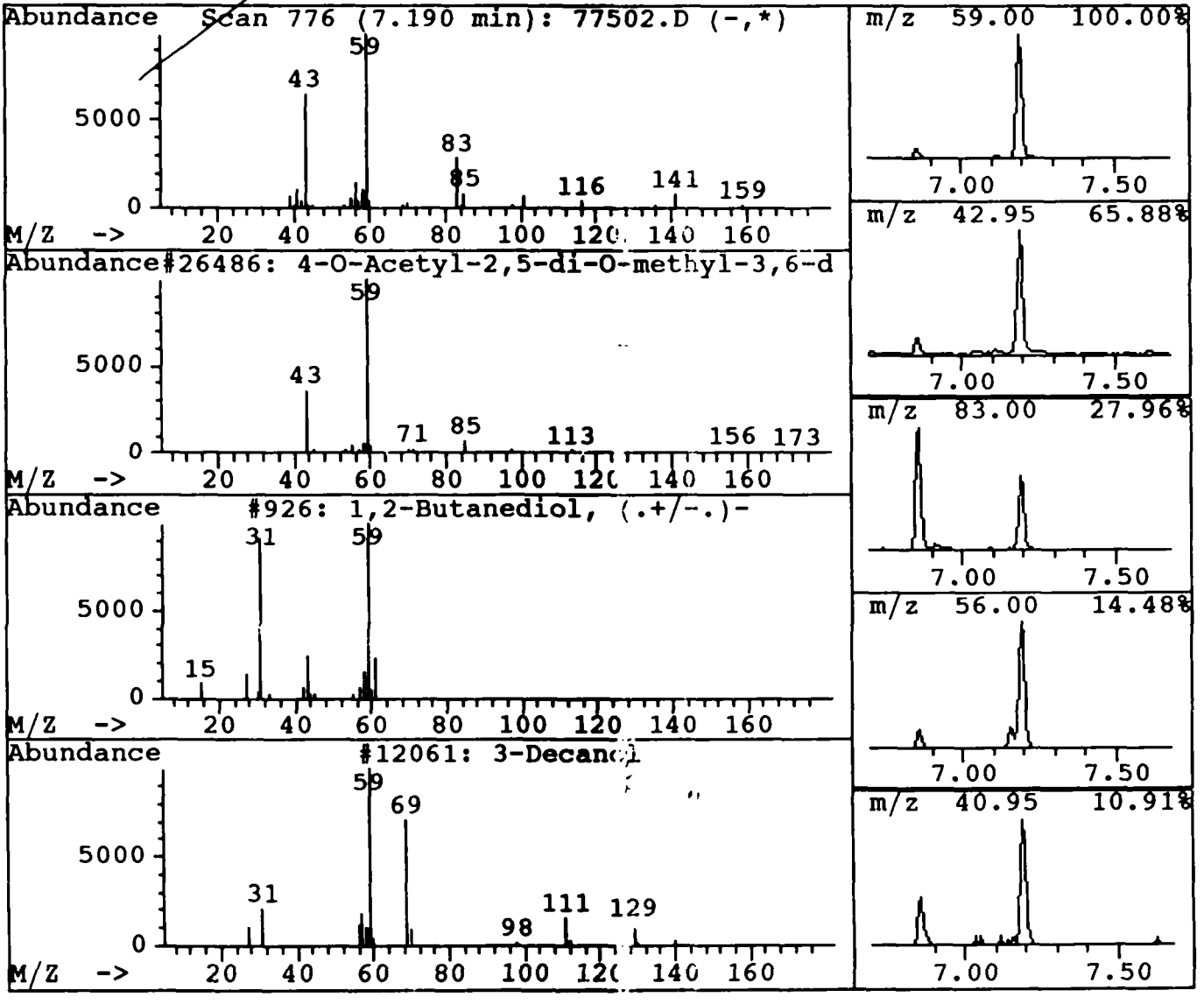
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.19	40.00 ug/mL	940211	C140 Naphthalene-d8	940211

Hit# of 14	Tentative ID	Ref#	CAS#	Qual
1	4-O-Acetyl-2,5-di-O-methyl-3,6-dide	26486	000000-00-0	40
2	1,2-Butanediol, (.+/-.)-	926	026171-83-5	40
3	3-Decanol	12061	001565-81-7	36
4	2-Methyl-2-nonanol	12077	010297-57-1	33
5	Propane, 1-ethoxy-2-methyl-	1772	000627-02-1	33



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:08

000355

Data File: C:\CHEMPC\DATA\041096\77502.D

Name: FER92 EXT040296

Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517

Method: OLMO3_1.M Inst: HP6

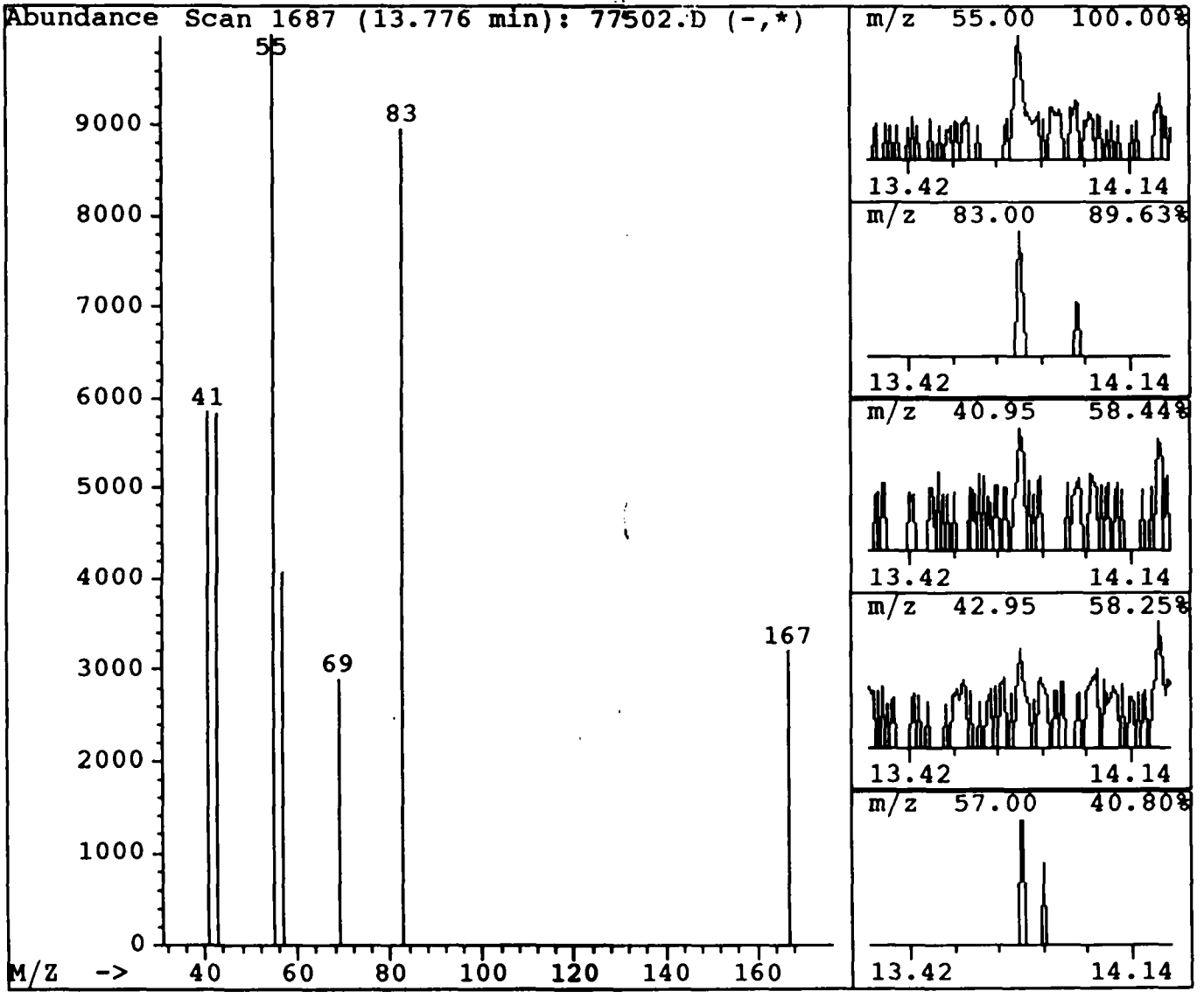
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
13.78	9.42 ug/mL	31221	CI70 Chrysene-d12	132572

Hit# of 8	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



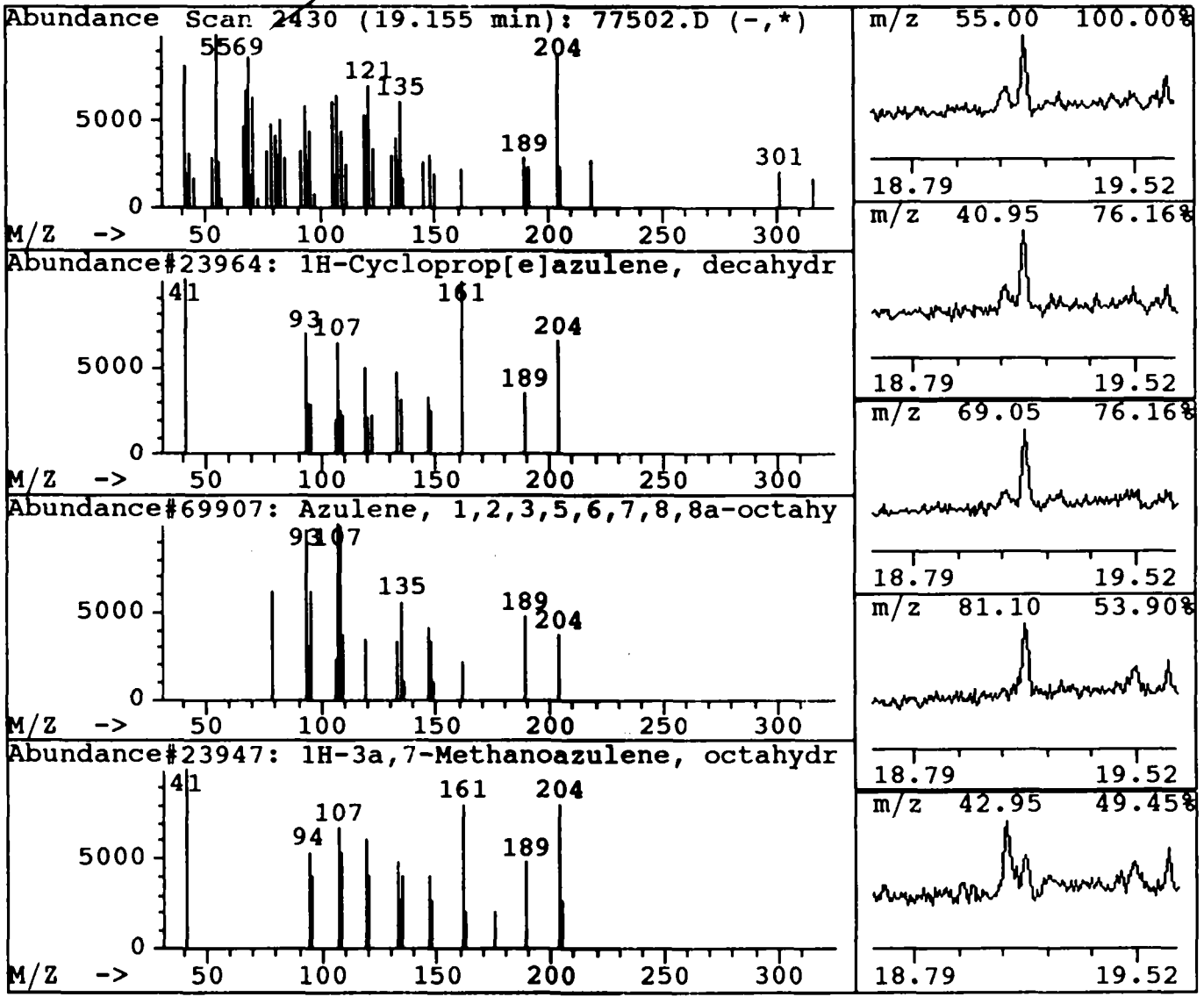
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:08
Data File: C:\CHEMPC\DATA\041096\77502.D
Name: FER92 EXT040296
Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.15	66.06 ug/mL	1272469	CI75 Perylene-d12	770472

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cycloprop[e]azulene, decahydro-1	23964	000489-39-4	55
2	Azulene, 1,2,3,5,6,7,8,8a-octahydro	69907	003691-11-0	55
3	1H-3a,7-Methanoazulene, octahydro-1	23947	000508-55-4	53
4	Naphthalene, 1,2,3,5,6,7,8,8a-octah	23980	010219-75-7	49
5	Azulene, 1,2,3,4,5,6,7,8-octahydro-	69918	003691-12-1	43



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:08

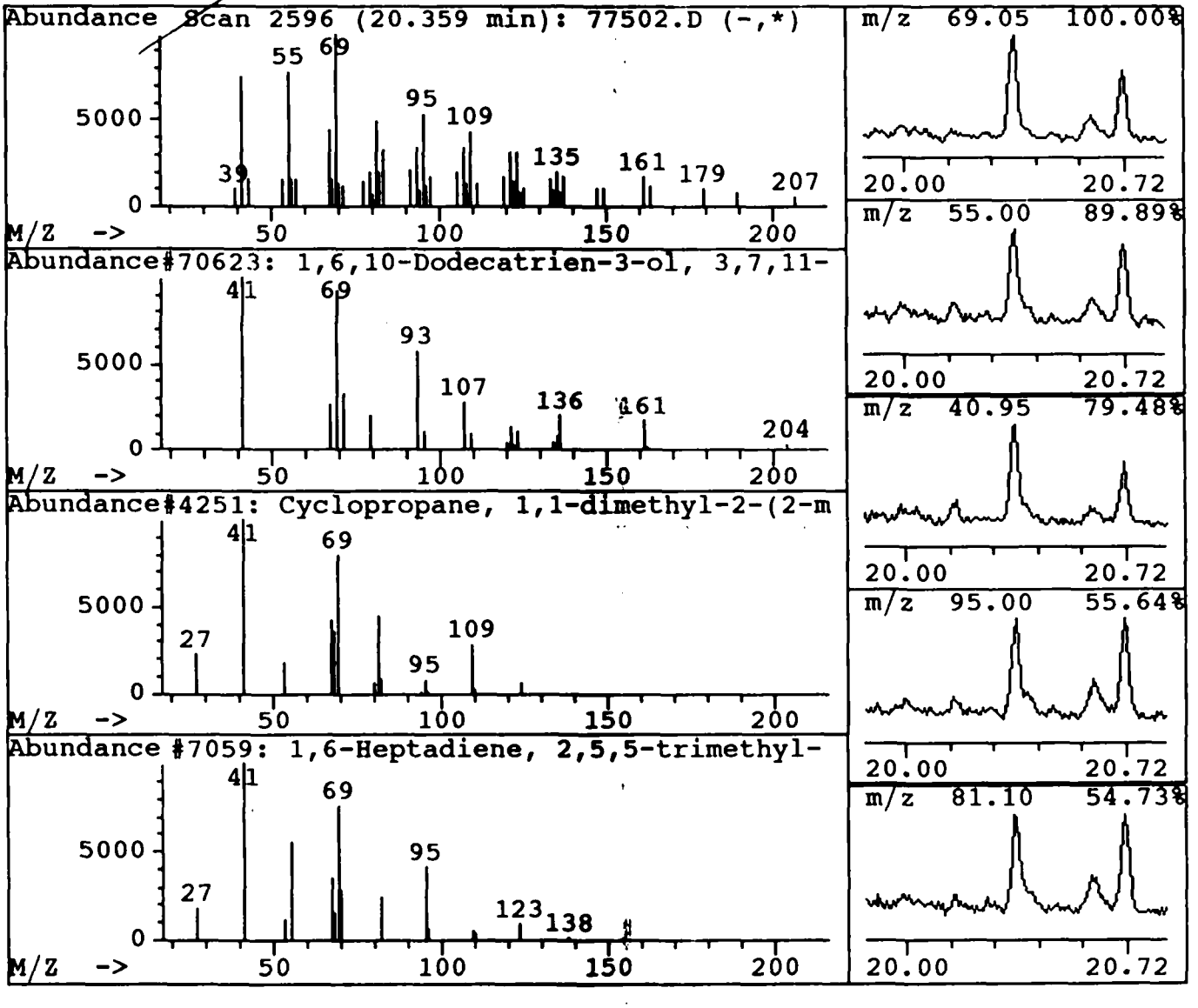
000357

Data File: C:\CHEMPC\DATA\041096\77502.D
Name: FER92 *EXT040296
Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517
Method: OLM03_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.36	26.19 ug/mL	504546	CZ75 Perylene-d12	770472

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,6,10-Dodecatrien-3-ol, 3,7,11-tri	70623	007212-44-4	43
2	Cyclopropane, 1,1-dimethyl-2-(2-met	4251	069147-03-1	43
3	1,6-Heptadiene, 2,5,5-trimethyl-	7059	062238-28-2	38
4	Dextro-camphoric acid	22844	000124-83-4	38
5	2,6-Octadienal, 3,7-dimethyl-, (Z)-	10309	000106-26-3	35



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:08

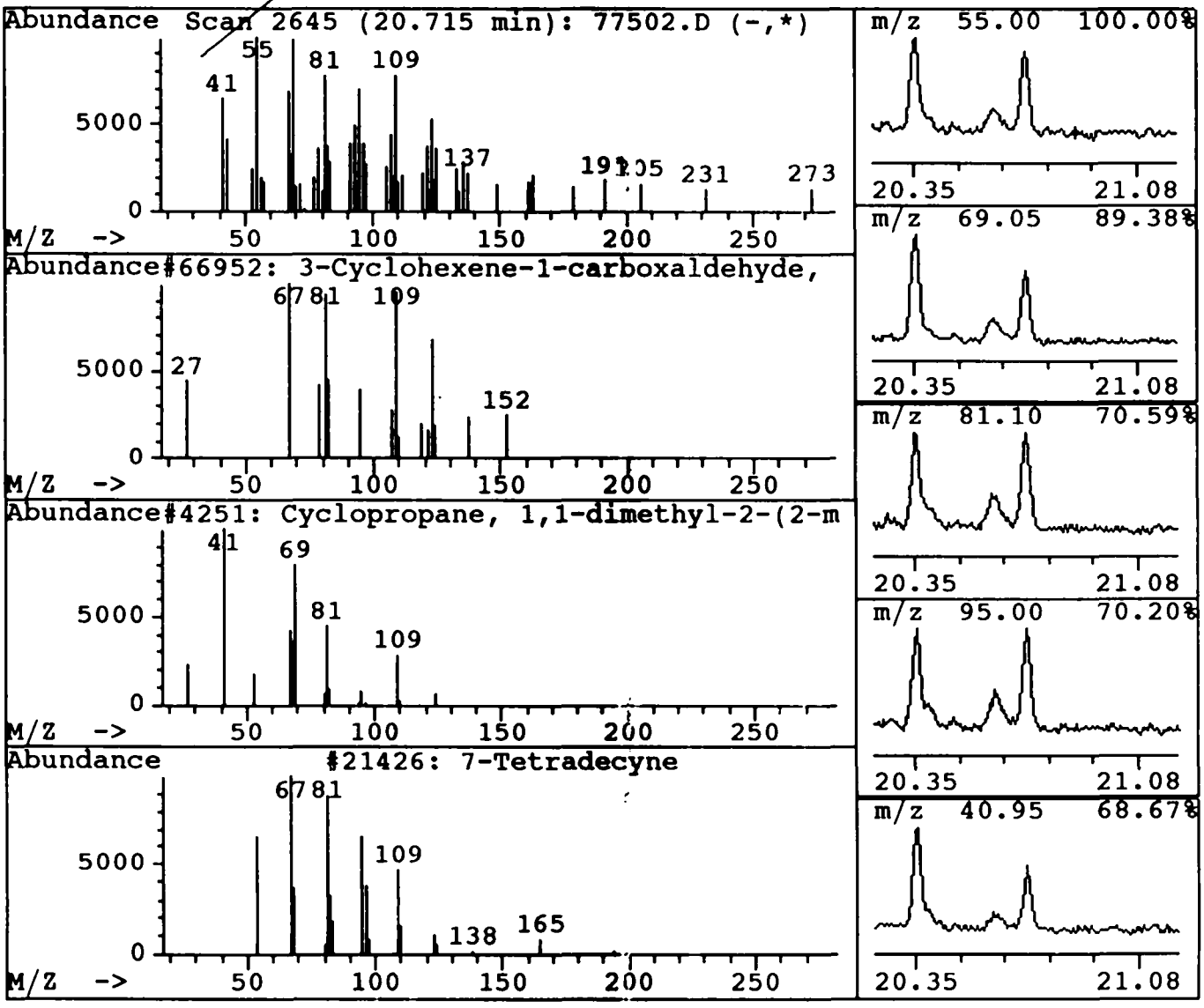
000358

Data File: C:\CHEMPC\DATA\041096\77502.D
Name: FER92 EXT040296
Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.71	54.45 ug/mL	1048864	C175 Perylene-d12	770472

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	3-Cyclohexene-1-carboxaldehyde, 1,3	66952	040702-26-9	46
2	Cyclopropane, 1,1-dimethyl-2-(2-met	4251	069147-03-1	43
3	7-Tetradecyne	21426	035216-11-6	43
4	2-Dodecen-1-yl(-)succinic anhydride	36989	019780-11-1	38
5	(R)-(-)-14-Methyl-8-hexadecyn-1-ol	34407	064566-18-3	38



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:08

000359

Data File: C:\CHEMPC\DATA\041096\77502.D

Name: FER92 EXT040296

Misc: HP6*USEPA*15427.08*30.00g/0.5ml/2uL*MS517

Method: OLMO3_1.M Inst: HP6

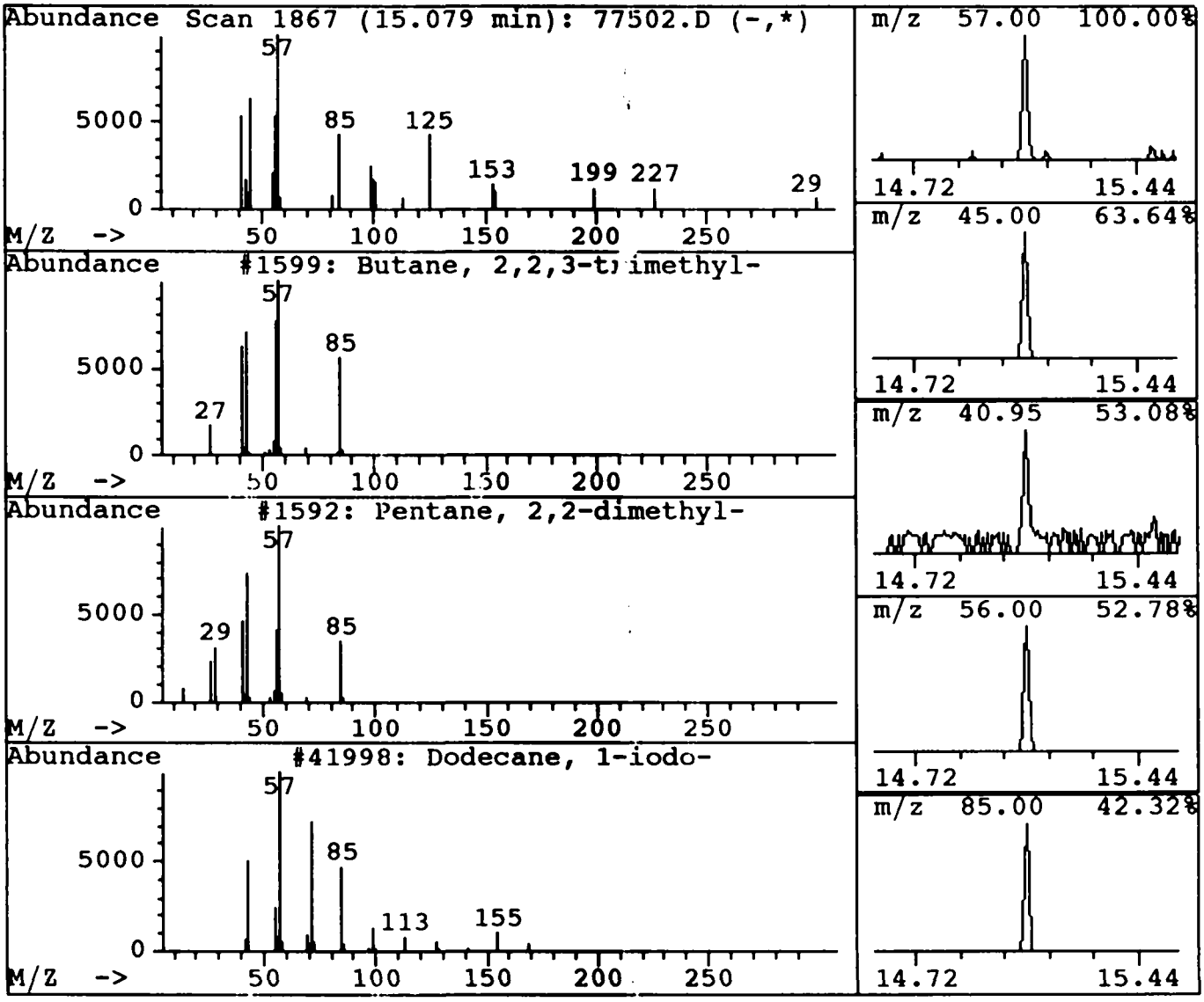
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	34.90 ug/mL	115680	C.70 Chrysene-d12	132572

Hit# of 4	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2,2,3-trimethyl-	1599	000464-06-2	10
2	Pentane, 2,2-dimethyl-	1592	000590-35-2	10
3	Dodecane, 1-iodo-	41998	004292-19-7	9
4	1-Iodoundecane	39685	004282-44-4	9



1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000362 EPA SAMPLE NO.

FER93

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1542709

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77503

Level: (low/med) LOW Date Received: 03/29/96

% Moisture: 20 decanted: (Y/N) N Date Extracted: 04/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/14/96

GPC Cleanup: (Y/N) Y pH: 8.1

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.42	430	ABJ
2.		Aldol condensation	4.77	300	ABJ
3.		Unknown	5.20	90	J
4.		Aldol condensation	5.52	430	ABJ
5.		Aldol condensation	5.77	91	AJ
6.		Unknown	15.07	370	J
7.		Unknown	19.15	2400	J
8.		Unknown	20.35	930	J
9.		Unknown	20.70	3900	J

QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 20:38

Data File: C:\CHEMPC\DATA\041096\77503.D

000363

Name: FER93 EXT040296

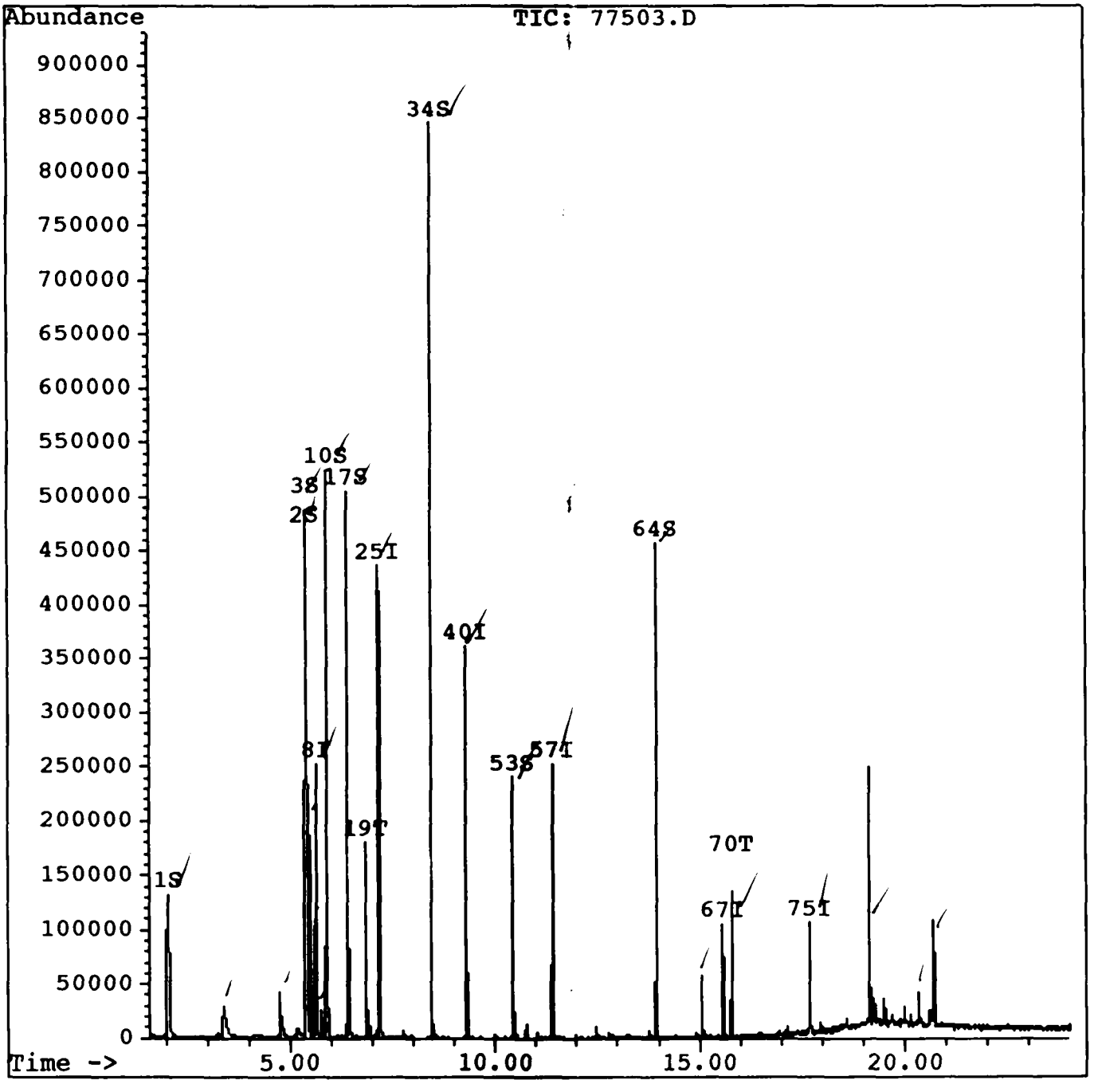
Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 20:38
Data File: C:\CHEMPC\DATA\041096\77503.D
Name: FER93 EXT 40296
Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996
Quantitated using Single Level Calibration

000364

Internal Standards

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8)	CI30 1,4-Dichlorobenzene-d	5.64	152	60475	40.00	ug/mL	0.04
25)	CI40 Naphthalene-d8	7.16	136	189939	40.00	ug/mL	0.02
40)	CI50 Acenaphthene-d10	9.30	164	93109	40.00	ug/mL	0.02
57)	CI60 Phenanthrene-d10	11.41	188	113887	40.00	ug/mL	0.02
67)	CI70 Chrysene-d12	15.59	240	58308	40.00	ug/mL	0.05
75)	CI75 Perylene-d12	17.70	264	70005	40.00	ug/mL	0.05

System Monitoring Compounds

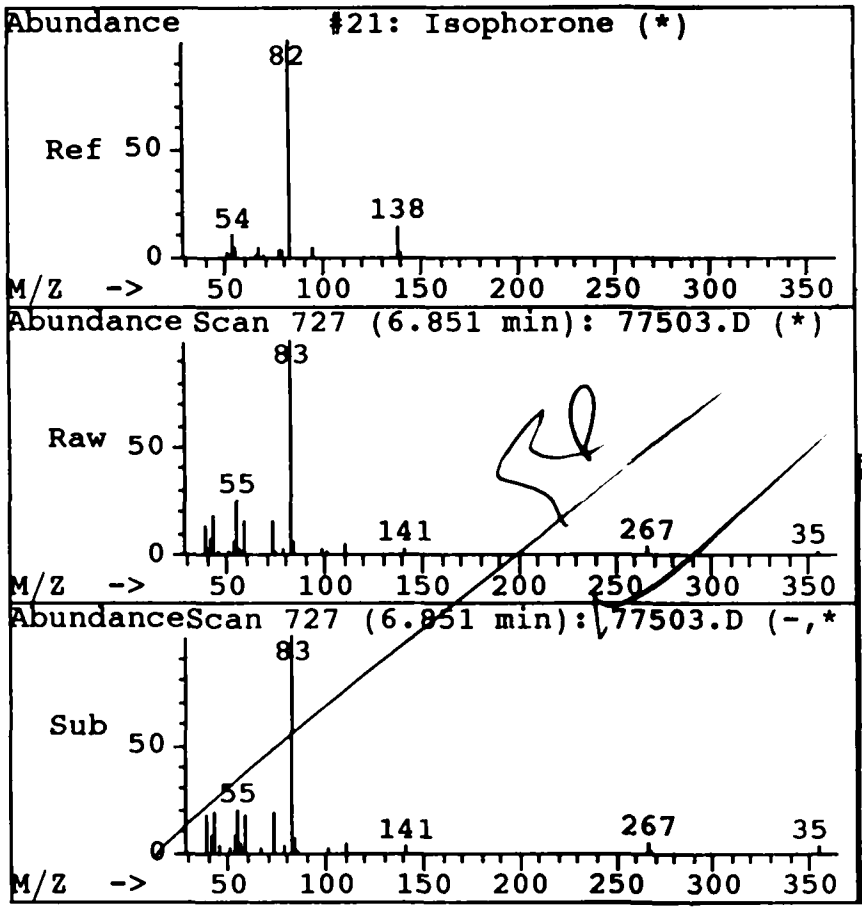
							%Recovery
1)	CS50 2-Fluorophenol	2.07	112	101299	72.15	ug/mL	48.10% ✓
2)	CS70 2-Chlorophenol-d4	5.39	132	178179	92.69	ug/mL	61.79%
3)	CS45 Phenol-d5	5.42	99	204374	90.04	ug/mL	60.02%
10)	CS75 1,2-Dichlorobenzene-d	5.90	152	91274	67.98	ug/mL	67.98%
17)	CS20 Nitrobenzene-d5	6.41	82	182337	81.25	ug/mL	81.25%
34)	CS25 2-Fluorobiphenyl	8.45	172	261756	79.77	ug/mL	79.77%
53)	CS55 2,4,6-Tribromophenol	10.44	330	31359	65.39	ug/mL	43.59%
64)	CS30 Terphenyl-d14	13.97	244	164615	87.96	ug/mL	87.96%

Target Compounds

							ISTD#
~~19)~~	~~C415 Isophorone~~	~~6.85~~	~~82~~	~~12792~~	~~3.39~~	~~ug~~/mL	~~002#~~
70)	C745 bis(2-Ethylhexyl)phth	15.80	149	41382	26.83	ug/mL ✓	005

FP - FALSE POSITIVE

(#) = qualifier out of range

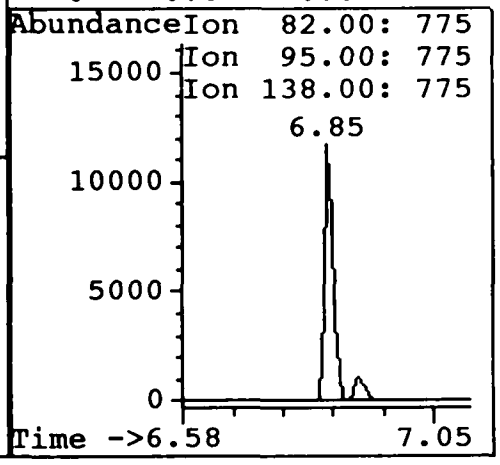


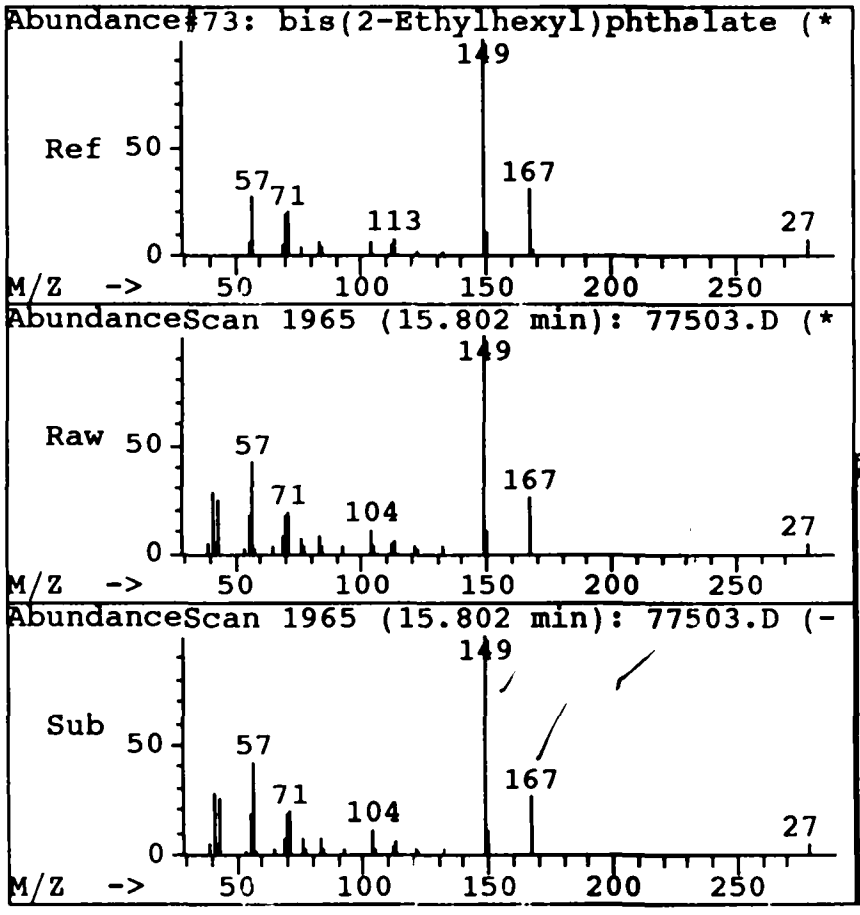
#19 Inst: HP6
C415 Isophorone
Concen: 3.39 ug/mL
RT: 6.85 min Scan# 727
Delta R.T. 0.17 min
Lab File: 77503.D
Acq: 10 Apr 96 20:38
FER93

000365

Tgt Ion: 82 Area: 12792

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	0.0	0.0	35.2
0	0.0	0.0	0.0

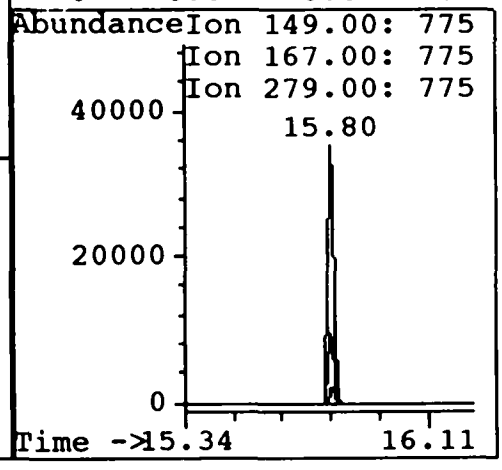




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 26.83 ug/mL
RT: 15.80 min Scan# 1965
Delta R.T. 0.02 min
Lab File: 77503.D
Acq: 10 Apr 96 20:38
FER93

Tgt Ion: 149 Area: 41382

Ion	Ratio	Lower	Upper
149	100		
167	27.0	13.5	53.5
279	5.2	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

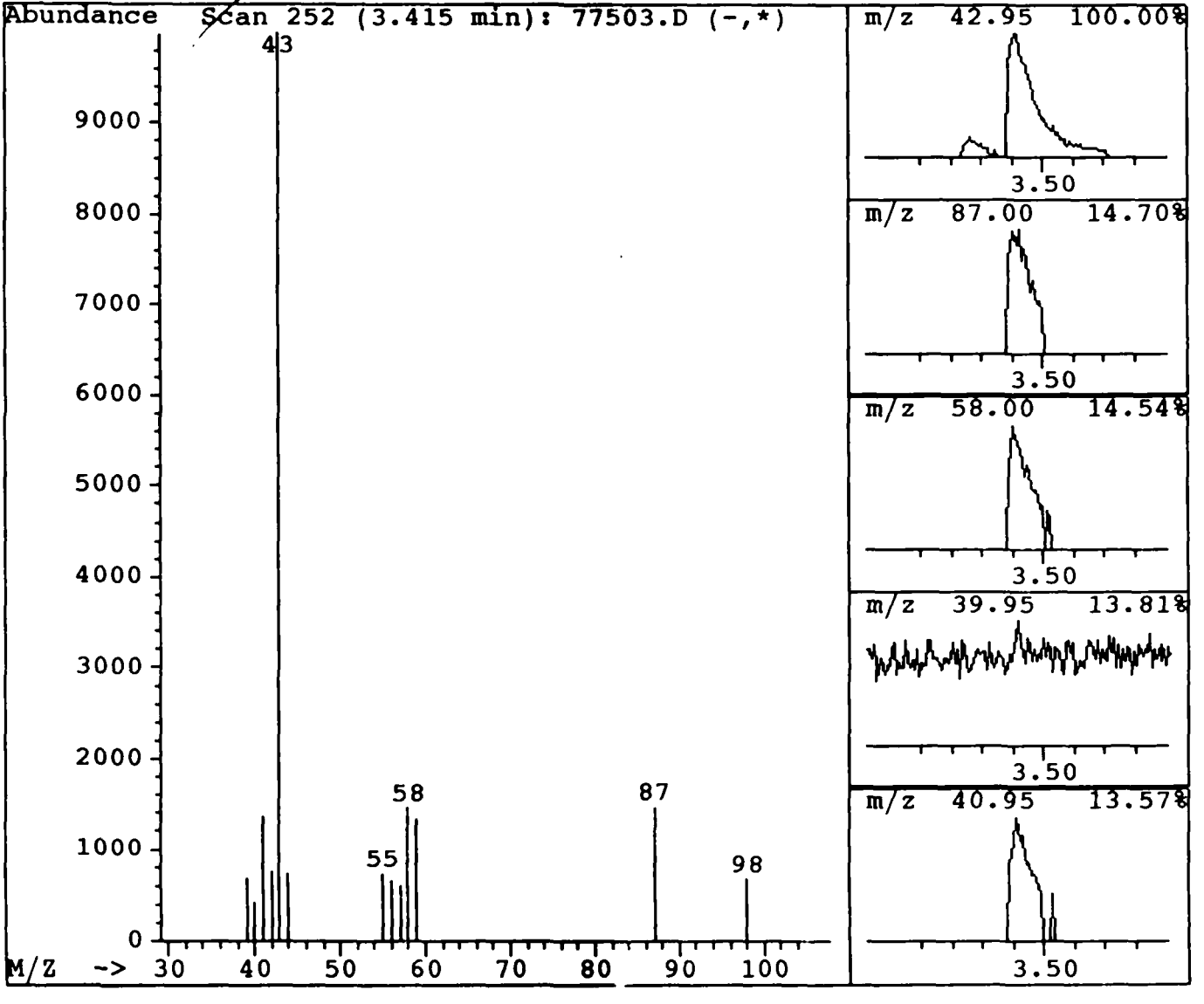
000366

Operator ID: AK Date Acquired: 10 Apr 96 20:38
Data File: C:\CHEMPC\DATA\041096\77503.D
Name: FER93 EXT040296
Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.41	20.82 ug/mL	223744	CI30 1,4-Dichlorobenzene-	429858

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



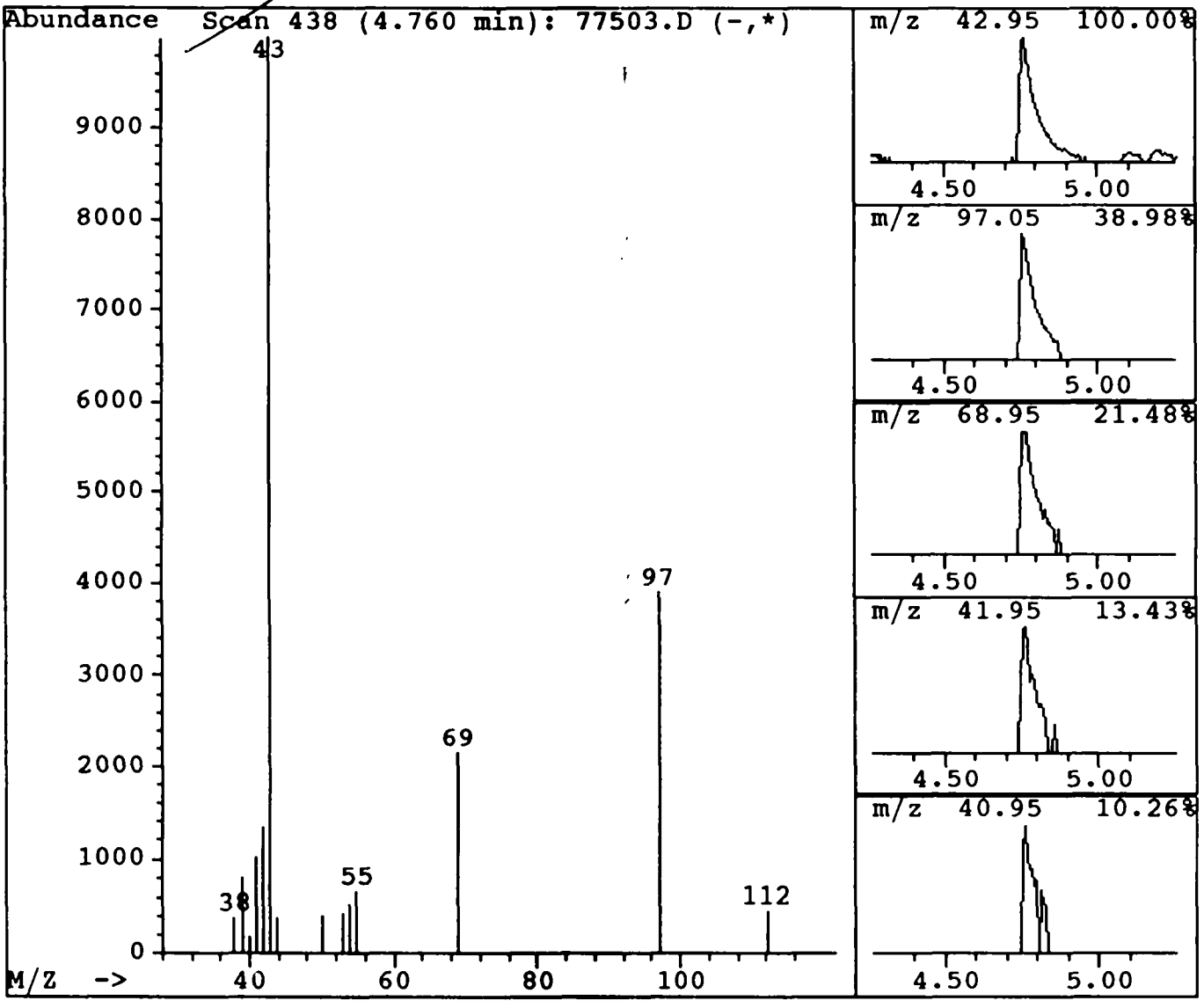
Tentatively Identified Compound (LSC) **000367**

Operator ID: AK Date Acquired: 10 Apr 96 20:38
Data File: C:\CHEMPC\DATA\041096\77503.D
Name: FER93 EXT040296
Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.76	14.51 ug/mL	155969	C130 1,4-Dichlorobenzene-	429858

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



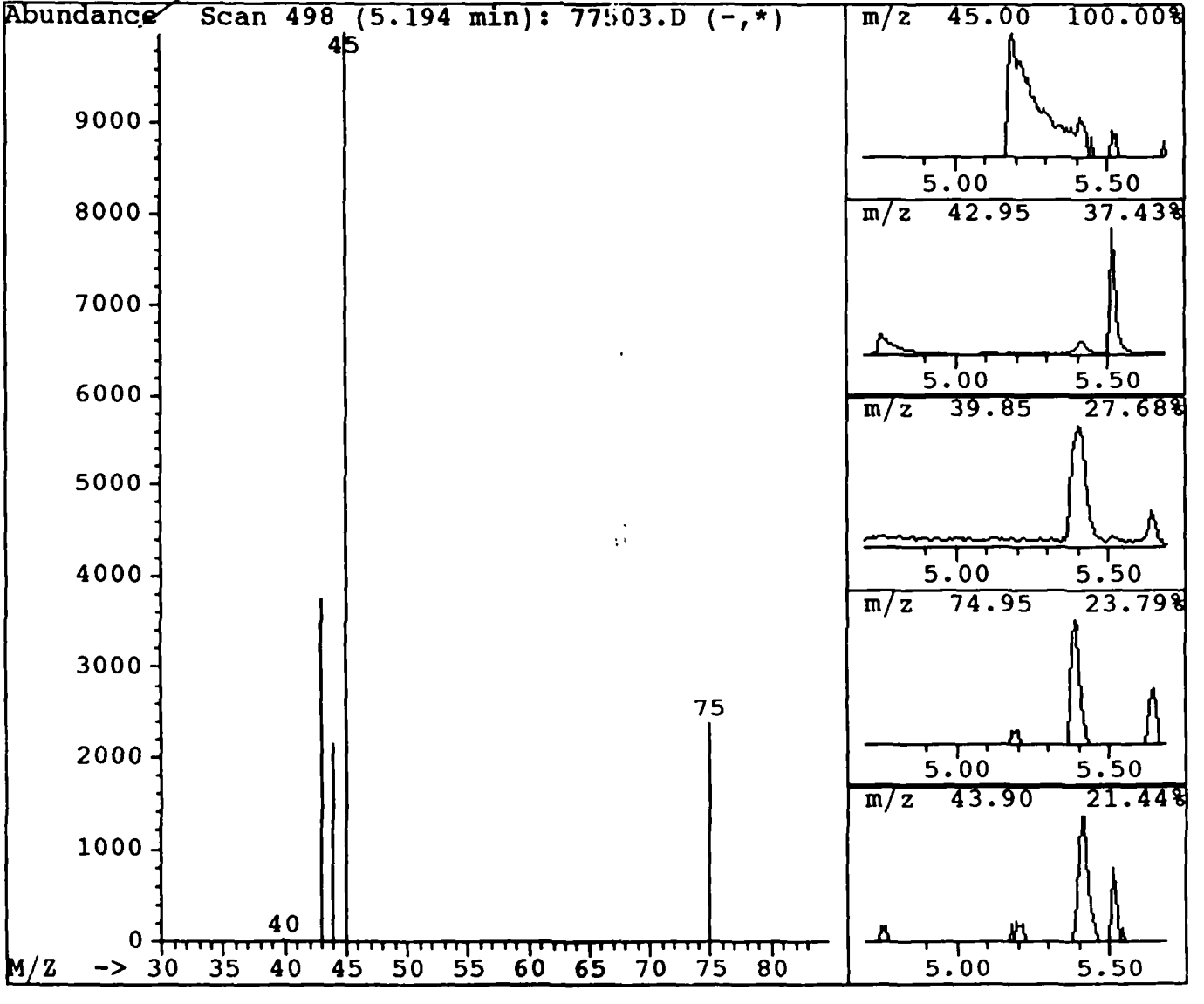
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:38
Data File: C:\CHEMPC\DATA\041096\77503.D
Name: FER93 EXT040296
Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.19	4.34 ug/mL	46587	CI30 1,4-Dichlorobenzene-	429858

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

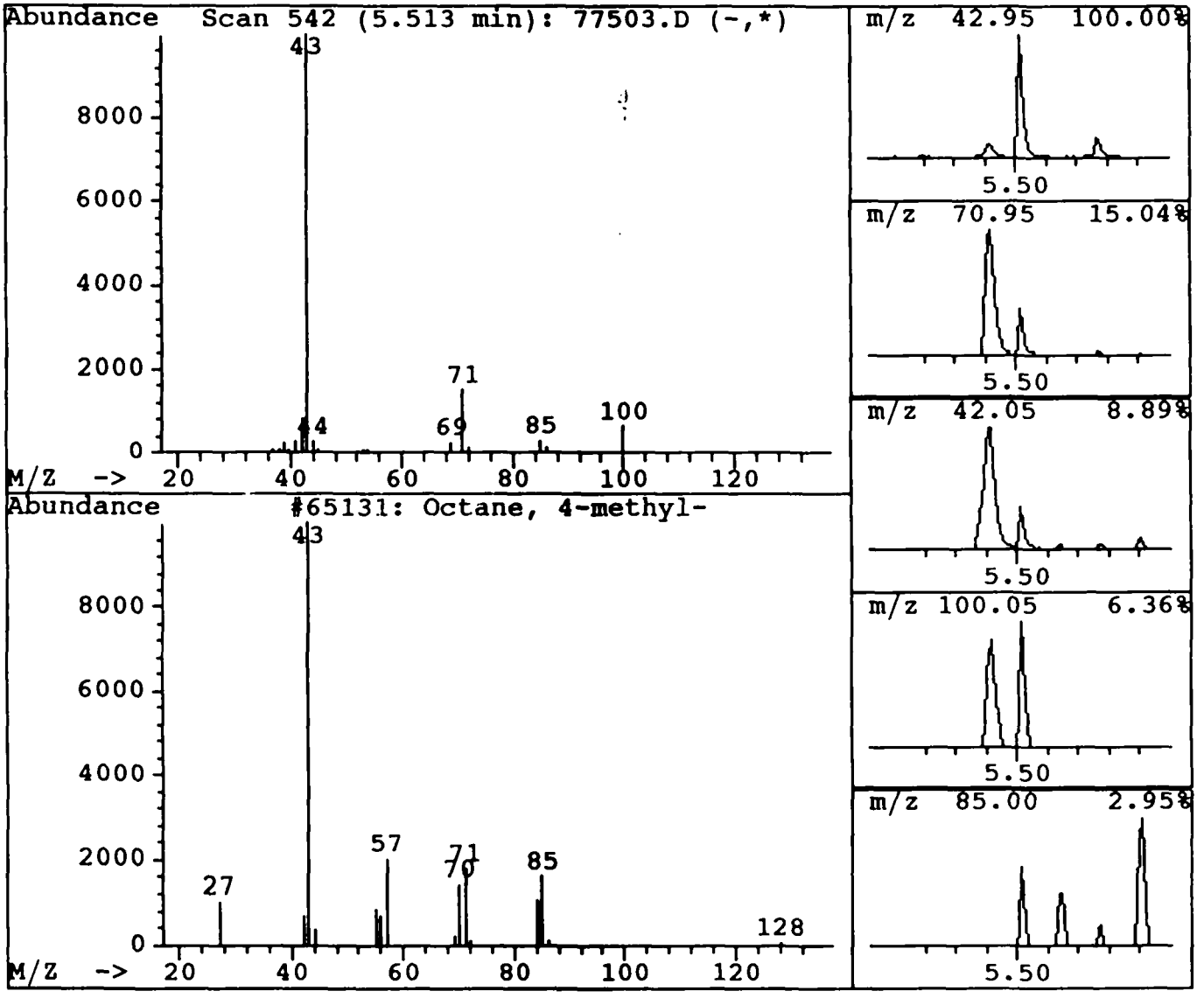
000369

Operator ID: AK Date Acquired: 10 Apr 96 20:38
Data File: C:\CHEMPC\DATA\041096\77503.D
Name: FER93 EXT040296
Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	20.82 ug/mL	223693	C130 1,4-Dichlorobenzene-	429858

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-methyl-	65131	002216-34-4	39



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:38

Data File: C:\CHEMPC\DATA\041096\77503.D

000370

Name: FER93 EXT040296

Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517

Method: OLMO3_1.M Inst: HP6

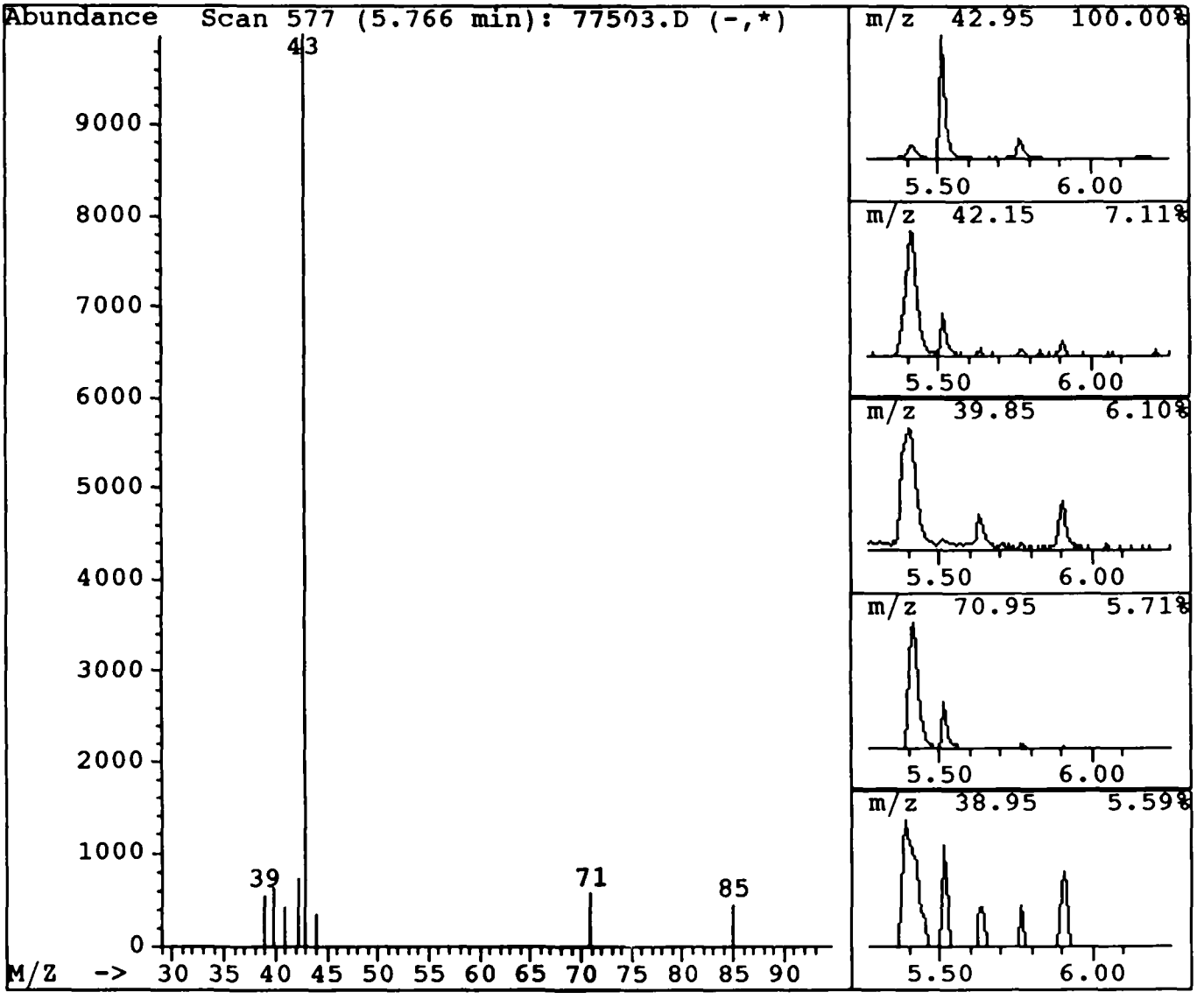
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	4.38 ug/mL	47017	CI30 1,4-Dichlorobenzene-	429858

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:38

Data File: C:\CHEMPC\DATA\041096\77503.D

000371

Name: FER93 EXT040296

Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517

Method: OLMO3_1.M Inst: HP6

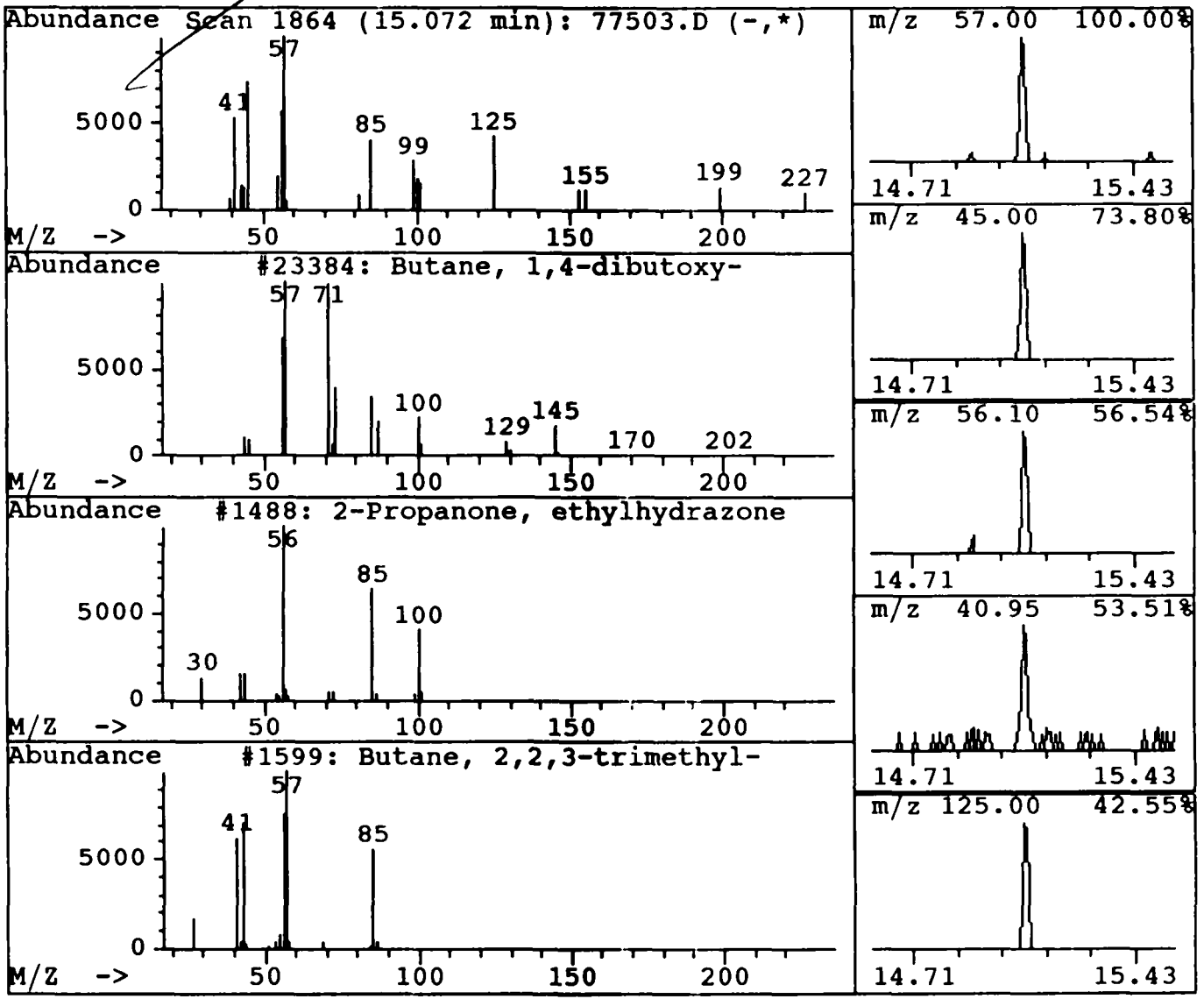
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	17.81 ug/mL	68477	C170 Chrysene-d12	153805

Hit# of 7	Tentative ID	Ref#	CAS#	Qual
1	Butane, 1,4-dibutoxy-	23384	004161-40-4	10
2	2-Propanone, ethylhydrazone	1488	007422-99-3	10
3	Butane, 2,2,3-trimethyl-	1599	000464-06-2	8
4	Pentane, 2,2-dimethyl-	1592	000590-35-2	8
5	Butane, 2,2,3-trimethyl-	63437	000464-06-2	8



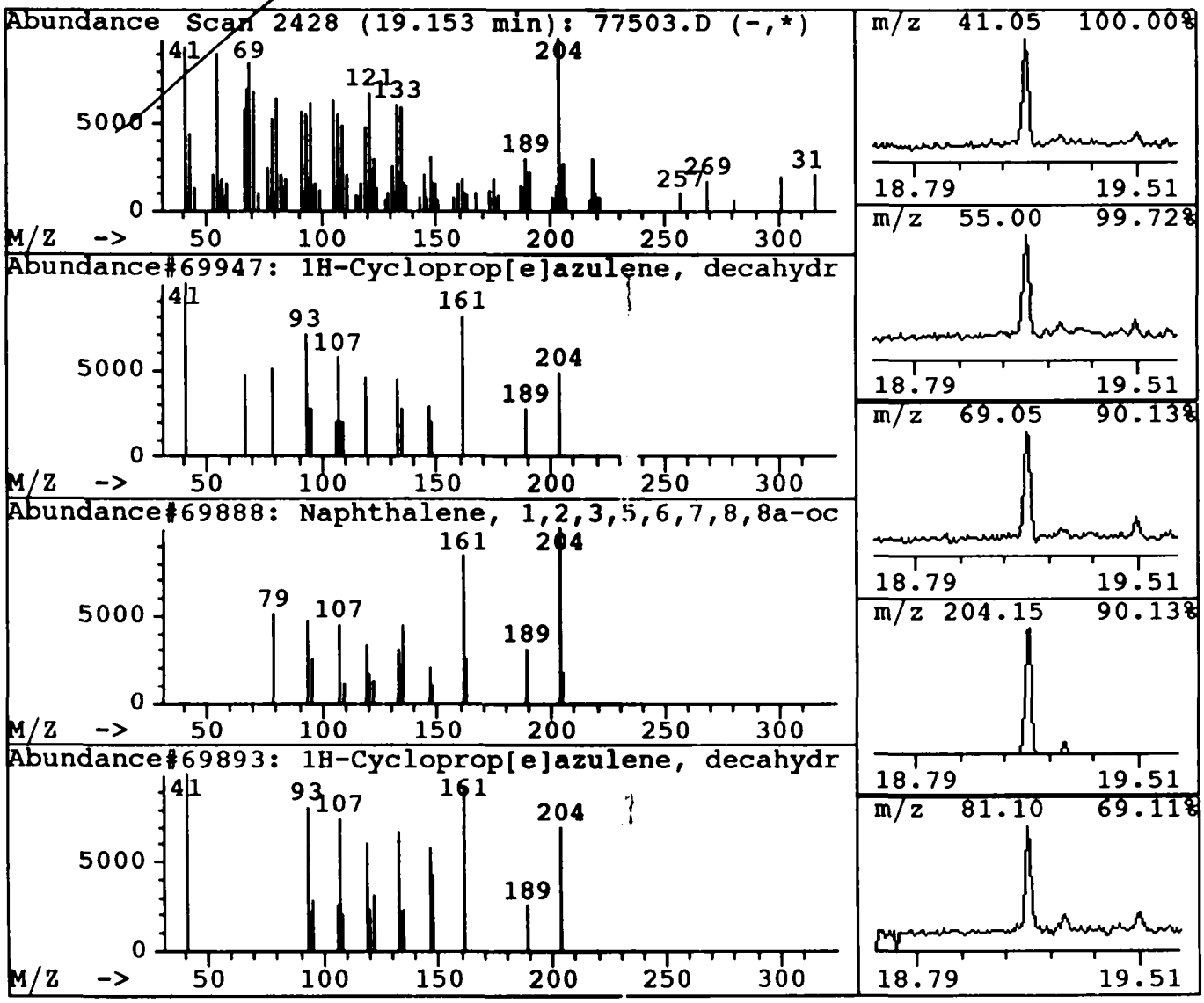
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:38
Data File: C:\CHEMPC\DATA\041096\77503.D
Name: FER93 EXT040296
Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.15	116.03 ug/mL	474546	C175 Perylene-d12	163594

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1H-Cycloprop[e]azulene, decahydro-1	69947	000489-39-4	53
2	Naphthalene, 1,2,3,5,6,7,8,8a-octah	69888	004630-07-3	50
3	1H-Cycloprop[e]azulene, decahydro-1	69893	025246-27-9	43
4	Tricyclo[4.3.0.07,9]non-3-ene, 2,2,	23953	054832-80-3	43
5	1H-Cycloprop[e]azulene, 1a,2,3,4,4a	69953	000489-40-7	42



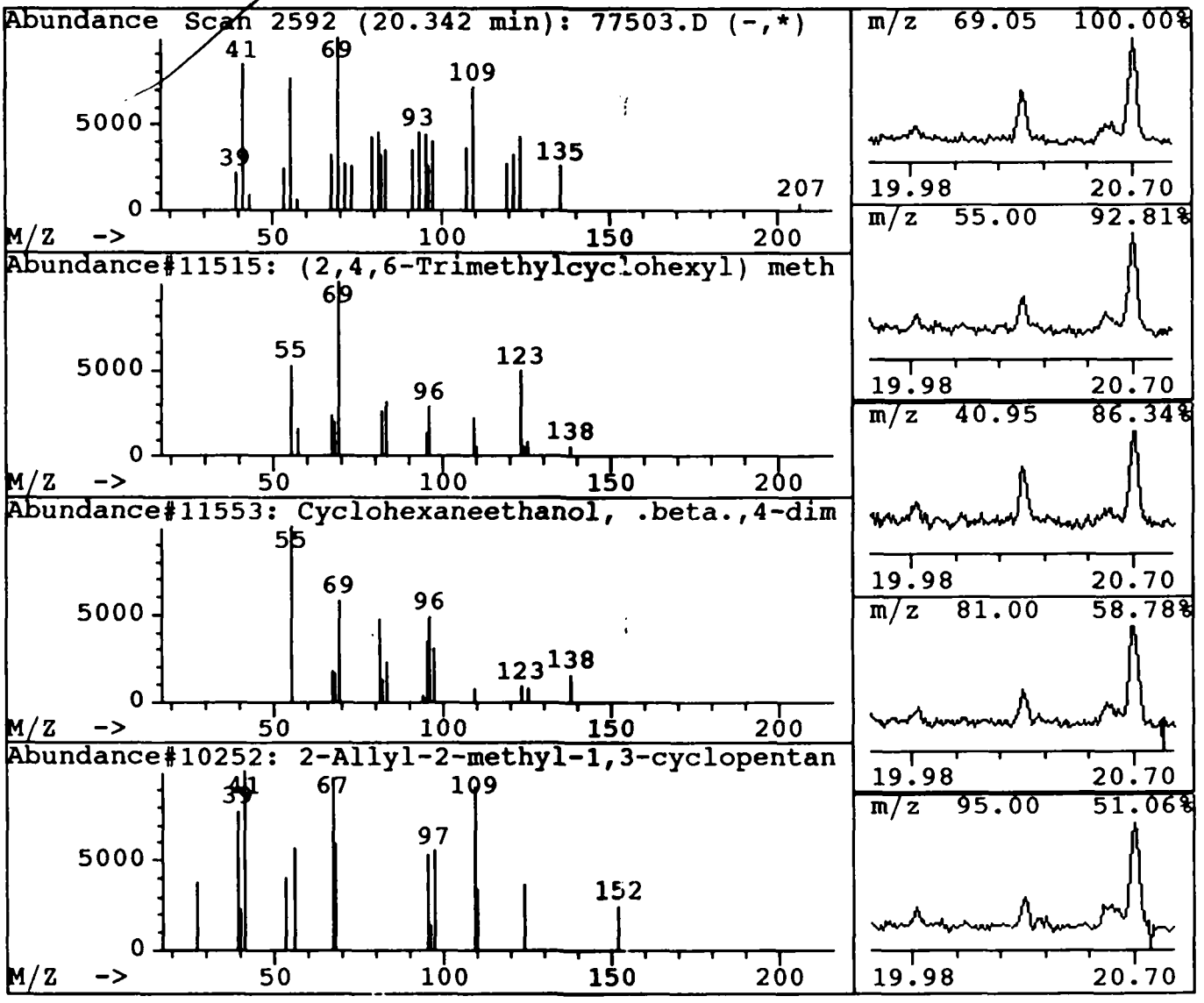
Tentatively Identified Compound (LSC) 000373

Operator ID: AK Date Acquired: 10 Apr 96 20:38
Data File: C:\CHEMPC\DATA\041096\77503.D
Name: FER93 EXT040296
Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.34	44.61 ug/mL	182444	C75 Perylene-d12	163594

Hit# of 19	Tentative ID	Ref#	CAS#	Qual
1	(2,4,6-Trimethylcyclohexyl) methano	11515	000000-00-0	25
2	Cyclohexaneethanol, .beta.,4-dimeth	11553	005113-95-1	17
3	2-Allyl-2-methyl-1,3-cyclopentanedi	10252	026828-48-8	12
4	(E,E)-7,11,15-Trimethyl-3-methylene	38200	070901-63-2	12
5	Cyclohexaneethanol, 4-methyl-.beta.	10923	015714-12-2	10



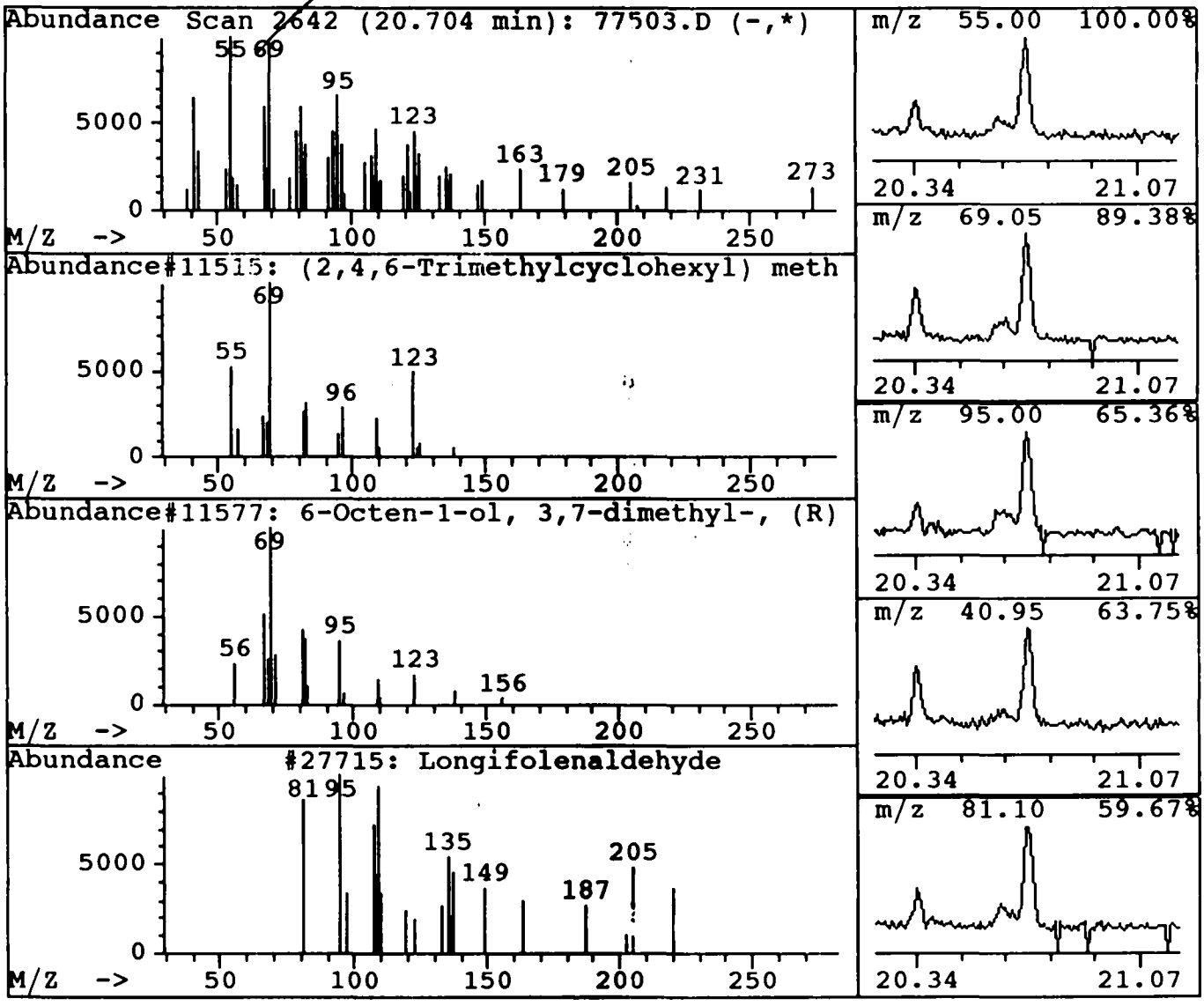
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 20:38
Data File: C:\CHEMPC\DATA\041096\77503.D
Name: FER93 EXT040296
Misc: HP6*USEPA*15427.09*30.00g/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP5
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.70	186.16 ug/mL	761380	CI75 Perylene-d12	163594

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	(2,4,6-Trimethylcyclohexyl) methano	11515	000000-00-0	47
2	6-Octen-1-ol, 3,7-dimethyl-, (R)-	11577	001117-61-9	37
3	Longifolenaldehyde	27715	019890-84-7	27
4	Cyclopropylidene-3,3-dimethylcycloh	17789	000000-00-0	16
5	2,6,10-Dodecatrien-1-ol, 3,7,11-tri	71838	004128-17-0	16



1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000377 EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

FER94

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541102

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77425

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ 5 4/4/96

GPC Cleanup: (Y/N) Y pH: 8.0

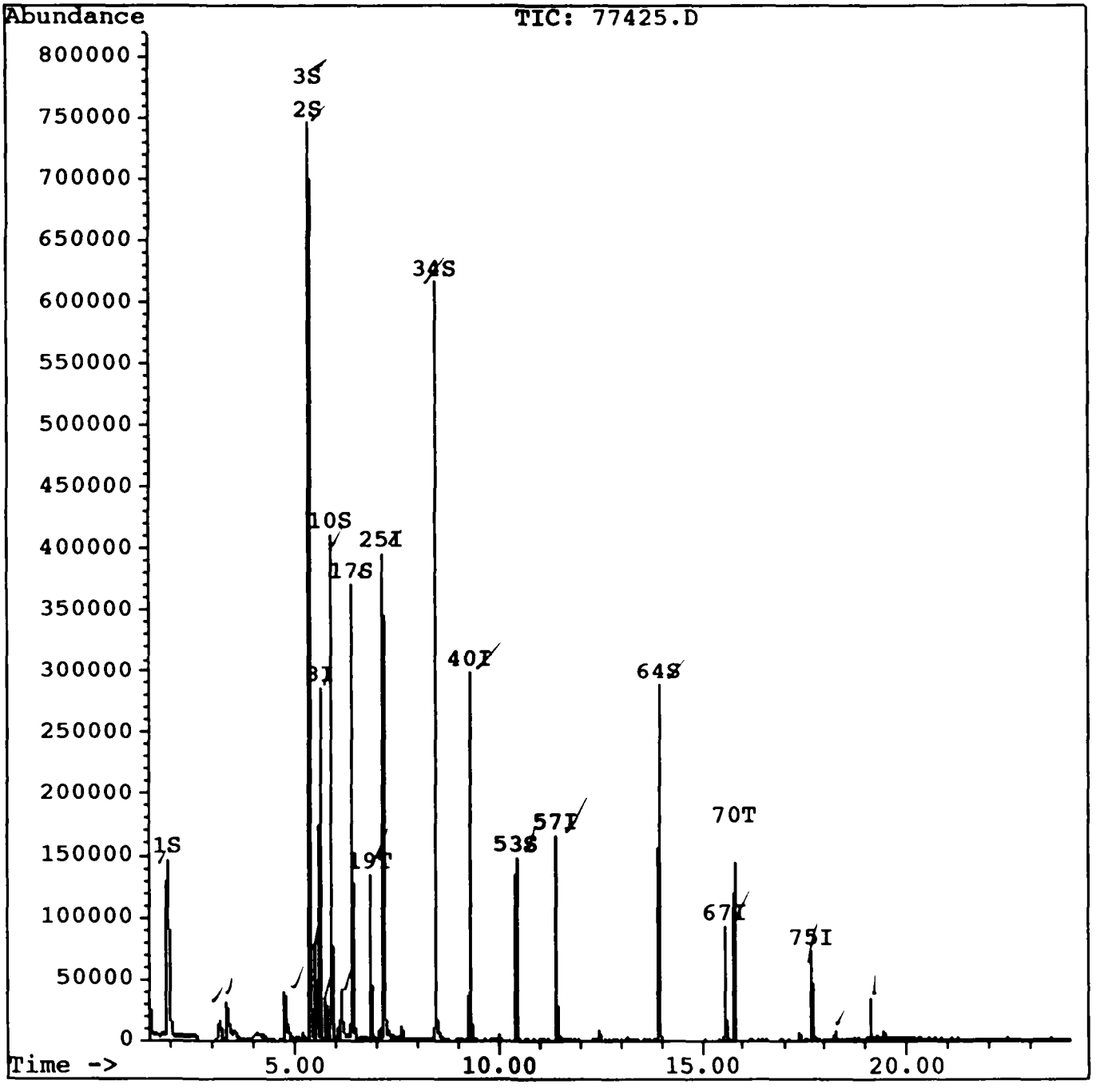
Number TICs found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.18	120	AJ
2.		Aldol condensation	3.35	340	ABJ
3.		Aldol condensation	4.77	260	ABJ
4.		Aldol condensation	5.52	270	ABJ
5.		Aldol condensation	5.77	100	AJ
6.		Unknown	6.13	220	J
7.		Unknown	18.27	81	J
8.		Unknown	19.13	220	J

QUANT REPORT

000378

Operator ID: AK Date Acquired: 4 Apr 96 23:26
Data File: C:\CHEMPC\DATA\040496\77425.D
Name: FER94 EXT033096
Misc: HP6*USEPA*15411.02*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration



QUANT REPORT

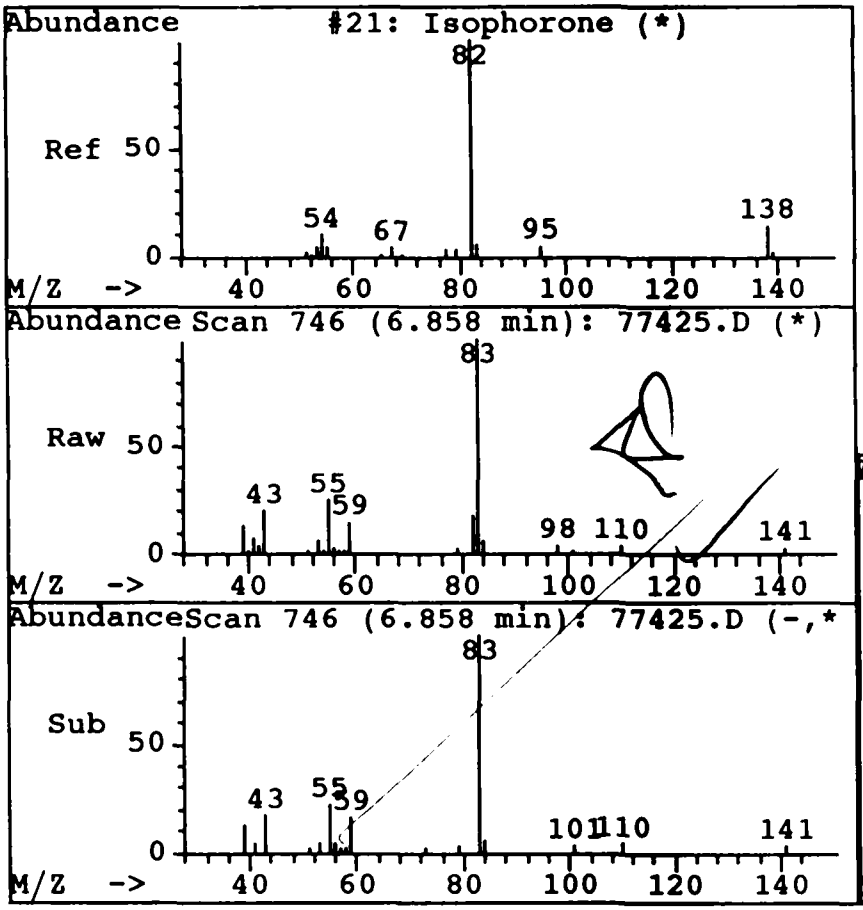
Operator ID: AK Date Acquired: 4 Apr 96 23:26
Data File: C:\CHEMPC\DATA\040496\77425.D
Name: FER94 EXT033096
Misc: HP6*USEPA*15411.02*30.00gml/0.5ml/2uLL*MS517
Method: OLM03_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration

000379

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	73559	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.15	136	220910	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.30	164	96264	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.41	188	104268	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.57	240	71877	40.00	ug/mL	-0.01
75) CI75 Perylene-d12	17.69	264	66145	40.00	ug/mL	-0.01
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.93	112	160722	94.17	ug/mL	62.78%
2) CS45 Phenol-d5	5.37	99	216870	81.11	ug/mL	54.07%
3) CS70 2-Chlorophenol-d4	5.37	132	202517	89.77	ug/mL	59.85%
10) CS75 1,2-Dichlorobenzene-d	5.90	152	91769	60.31	ug/mL	60.31%
17) CS20 Nitrobenzene-d5	6.41	82	156865	60.60	ug/mL	60.60%
34) CS25 2-Fluorobiphenyl	8.45	172	228190	67.71	ug/mL	67.71%
53) CS55 2,4,6-Tribromophenol	10.44	330	28128	74.89	ug/mL	49.93%
64) CS30 Terphenyl-d14	13.96	244	128020	75.99	ug/mL	75.99%
Target Compounds						ISTD#
19) C415 Isophorone	6.86	82	12344	3.03	ug/mL	002#
70) C745 bis(2-Ethylhexyl)phth	15.80	149	48470	24.97	ug/mL	005

FP=FALSE POS

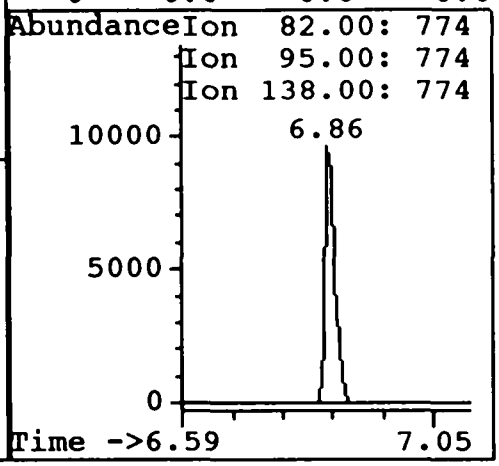
(#) = qualifier out of range

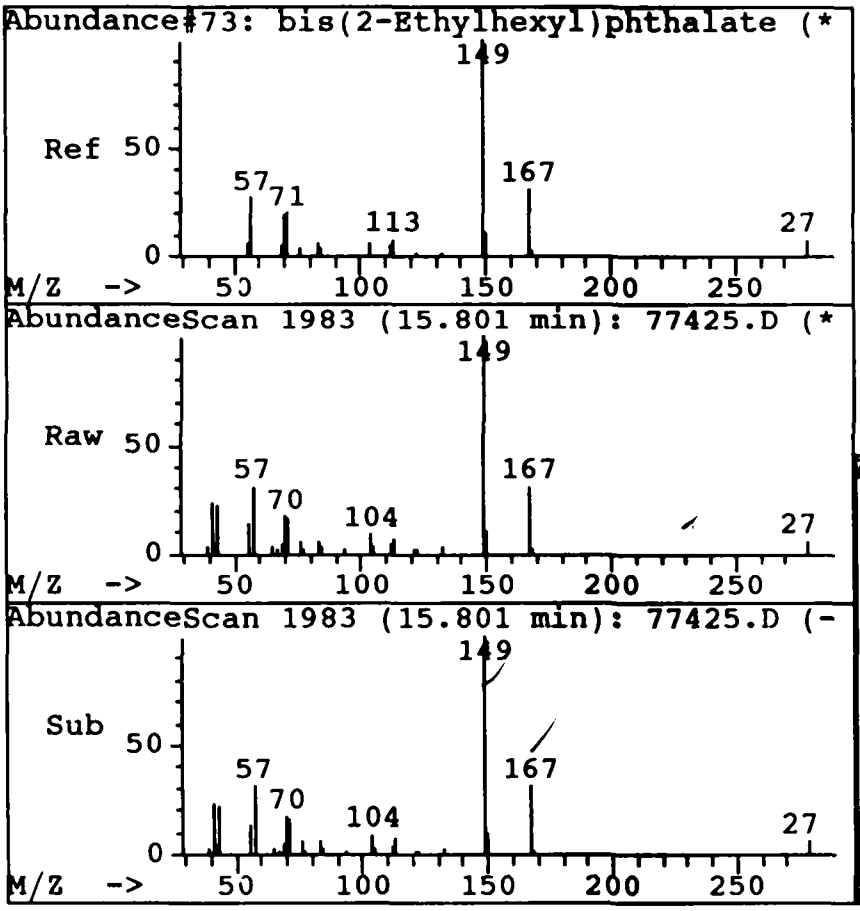


#19 Inst: HP6 **000380**
C415 Isophorone
Concen: 3.03 ug/mL
RT: 6.86 min Scan# 746
Delta R.T. 0.17 min
Lab File: 77425.D
Acq: 4 Apr 96 23:26
FER94

Tgt Ion: 82 Area: 12344

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	0.0	0.0	35.2
0	0.0	0.0	0.0

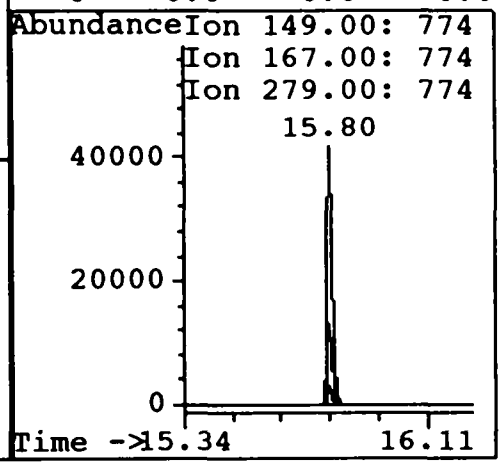




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 24.97 ug/mL
RT: 15.80 min Scan# 1983
Delta R.T. -0.01 min
Lab File: 77425.D
Acq: 4 Apr 96 23:26
FER94

Tgt Ion: 149 Area: 48470

Ion	Ratio	Lower	Upper
149	100		
167	29.2	13.5	53.5
279	4.8	0.0	29.5
0	0.0	0.0	0.0



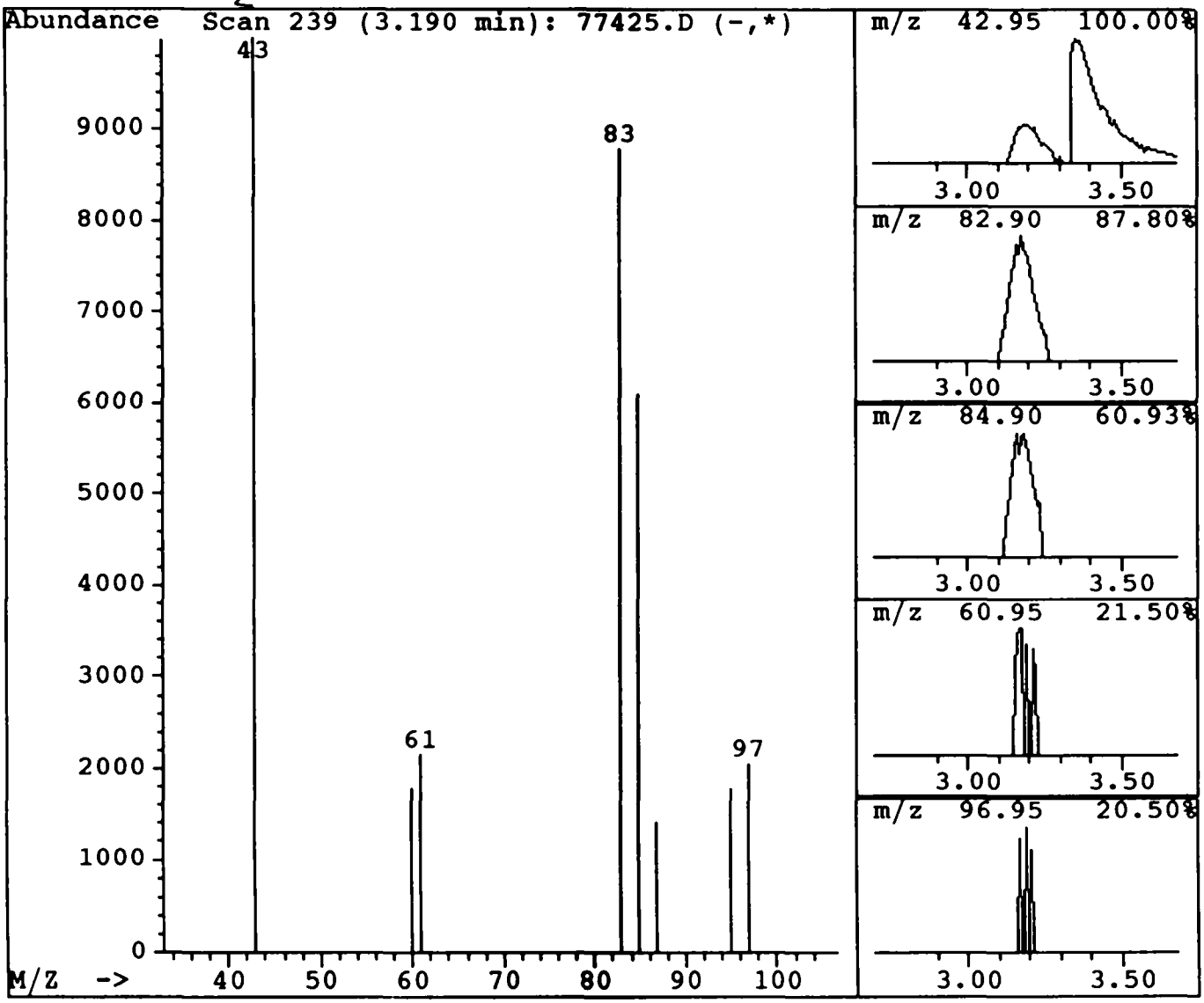
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 23:26
Data File: C:\CHEMPC\DATA\040496\77425.D
Name: FER94 EXT033096
Misc: HP6*USEPA*15411.02*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.19	6.30 ug/mL	74189	CI30 1,4-Dichlorobenzene-	471281

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



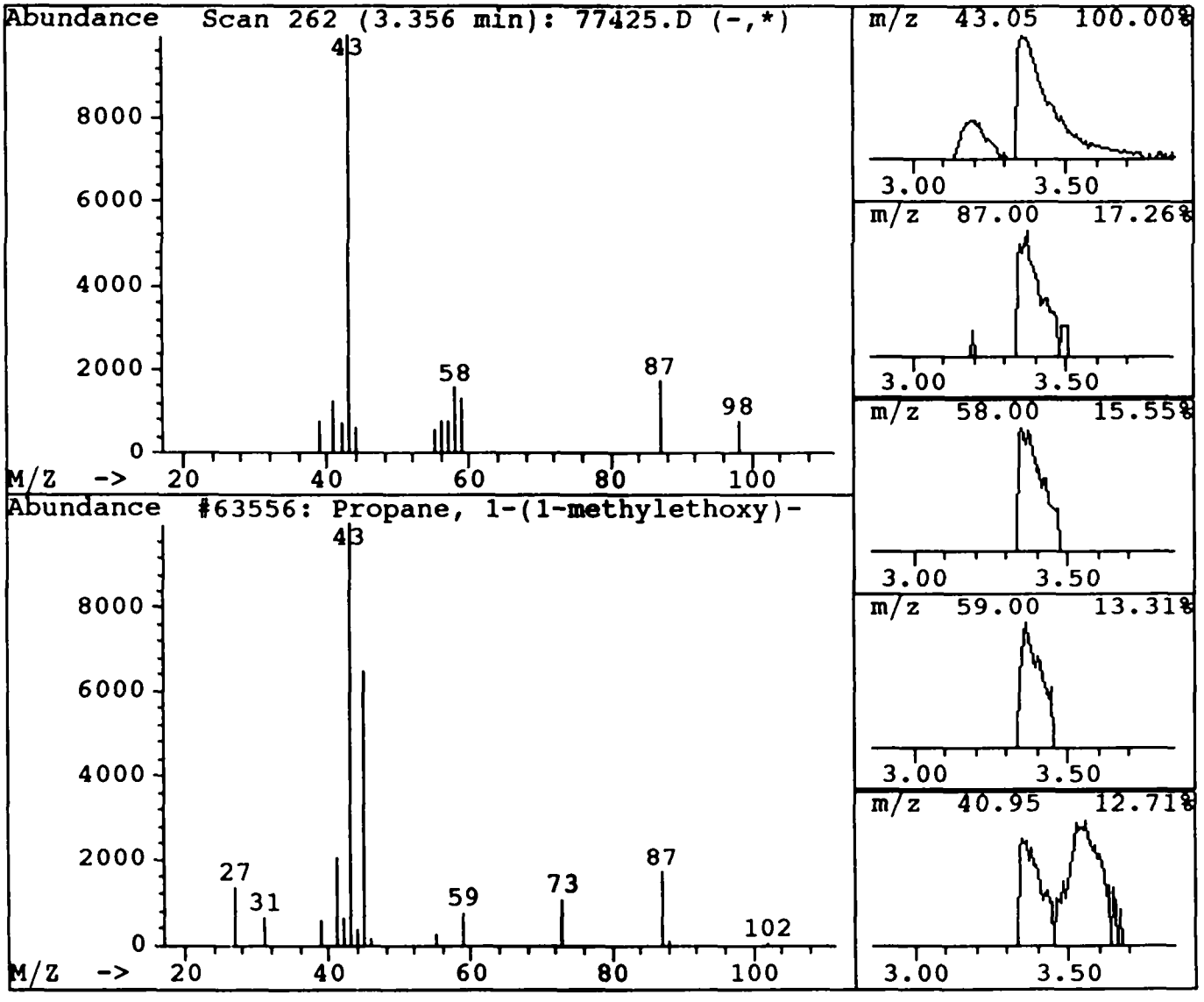
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 23:26
Data File: C:\CHEMPC\DATA\040496\77425.D
Name: FER94 EXT033096
Misc: HP6*USEPA*15411.02*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.36	17.43 ug/mL	205388	CI30 1,4-Dichlorobenzene-	471281

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Propane, 1-(1-methylethoxy)-	63556	000627-08-7	33



Tentatively Identified Compound (LSC)

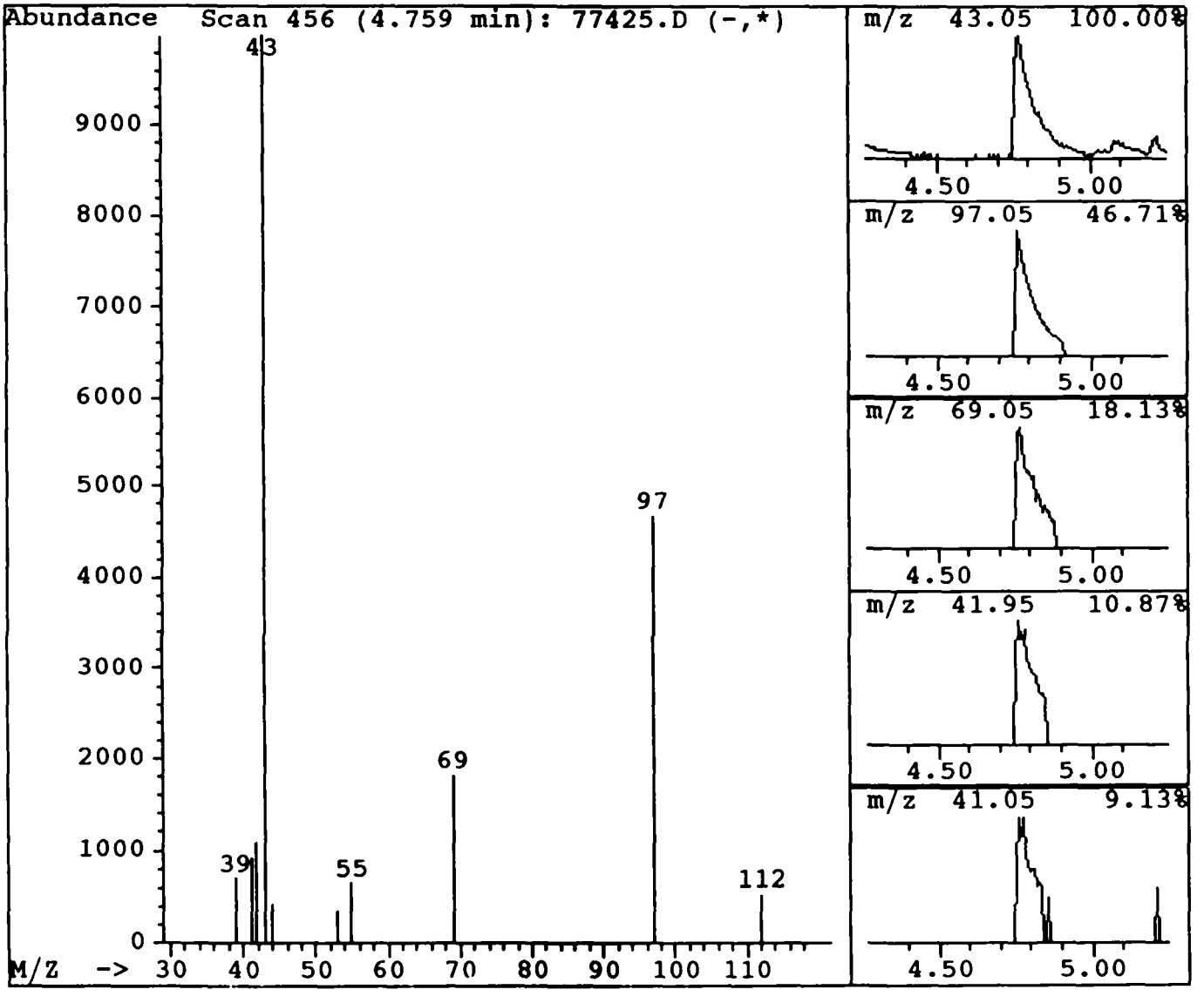
000383

Operator ID: AK Date Acquired: 4 Apr 96 23:26
Data File: C:\CHEMPC\DATA\040496\77425.D
Name: FER94 EXT033096
Misc: HP6*USEPA*15411.02*30.00gml/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.76	13.49 ug/mL	158882	CI30 1,4-Dichlorobenzene-	471281

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



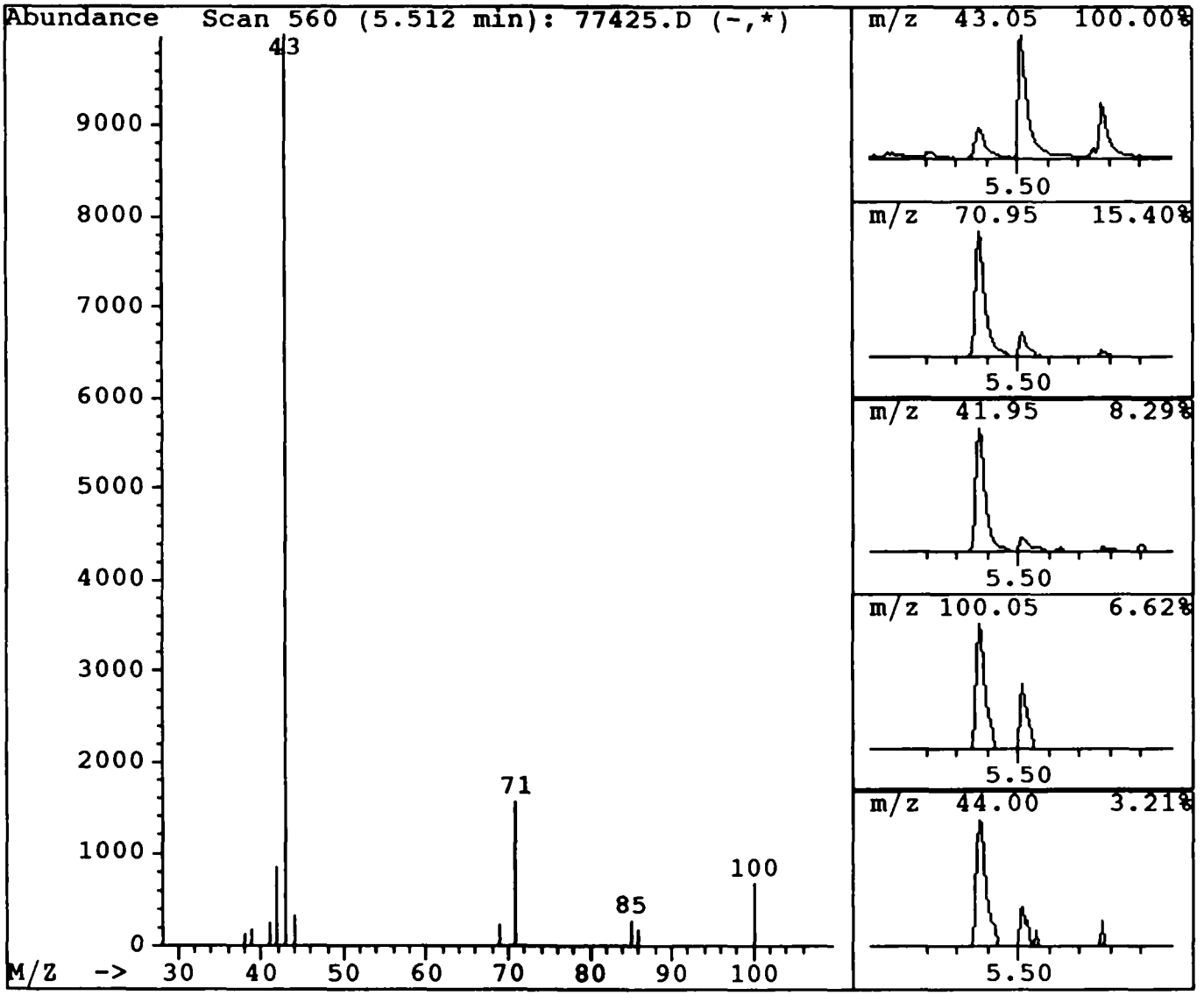
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 23:26
Data File: C:\CHEMPC\DATA\040496\77425.D
Name: FER94 EXT033096
Misc: HP6*USEPA*15411.02*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	14.12 ug/mL	166406	CI30 1,4-Dichlorobenzene-	471281

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



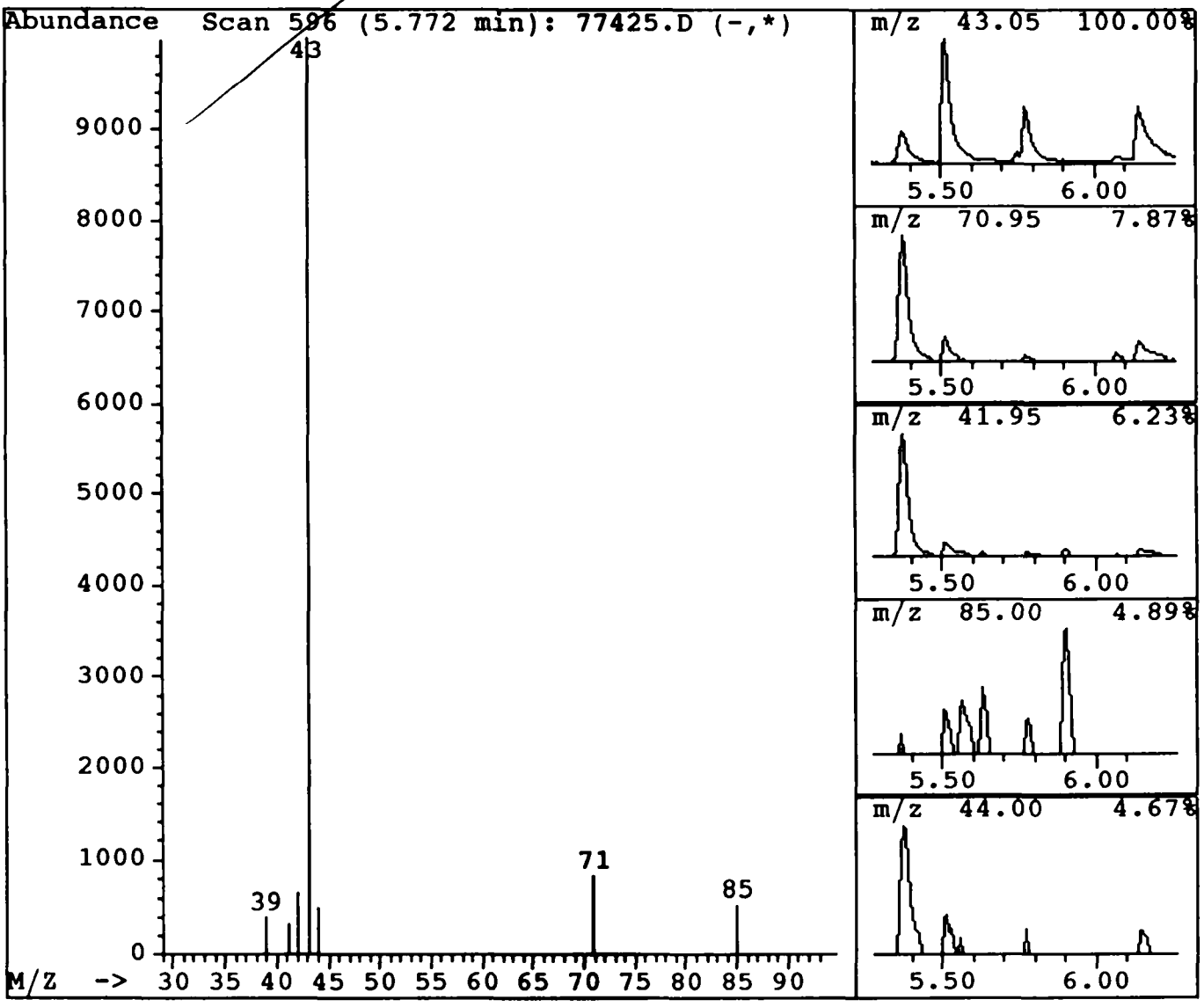
Tentatively Identified Compound (LSC) 000385

Operator ID: AK Date Acquired: 4 Apr 96 23:26
Data File: C:\CHEMPC\DATA\040496\77425.D
Name: FER94 EXT033096
Misc: HP6*USEPA*15411.02*30.00gml/0.5ml/2uL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	5.20 ug/mL	61267	CI30 1,4-Dichlorobenzene-	471281

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 23:26

000386

Data File: C:\CHEMPC\DATA\040496\77425.D

Name: FER94 EXT033096

Misc: HP6*USEPA*15411.02*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

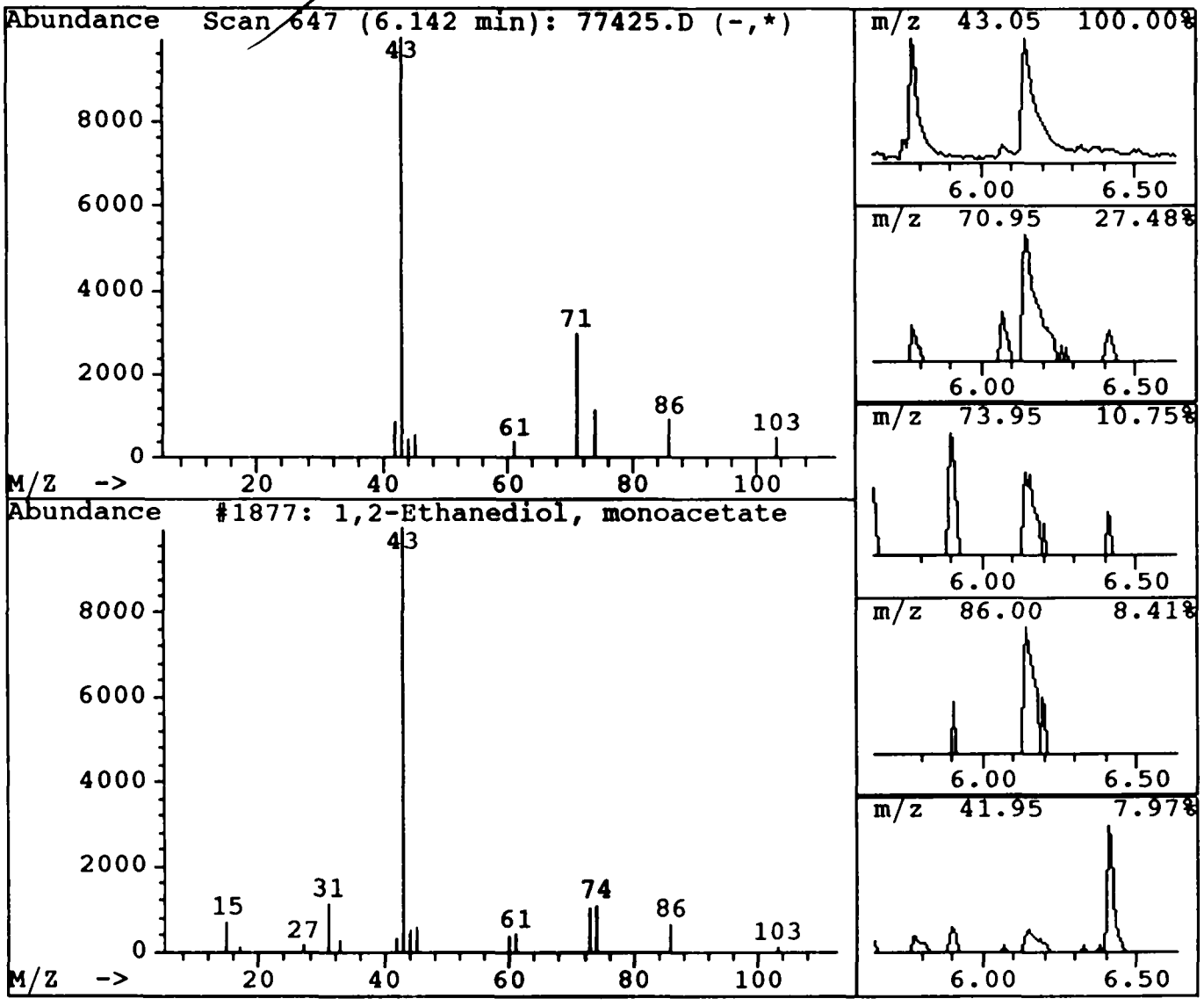
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.14	11.25 ug/mL	132503	CI30 1,4-Dichlorobenzene-	471281

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol, monoacetate	1877	000542-59-6	33



Tentatively Identified Compound (LSC)

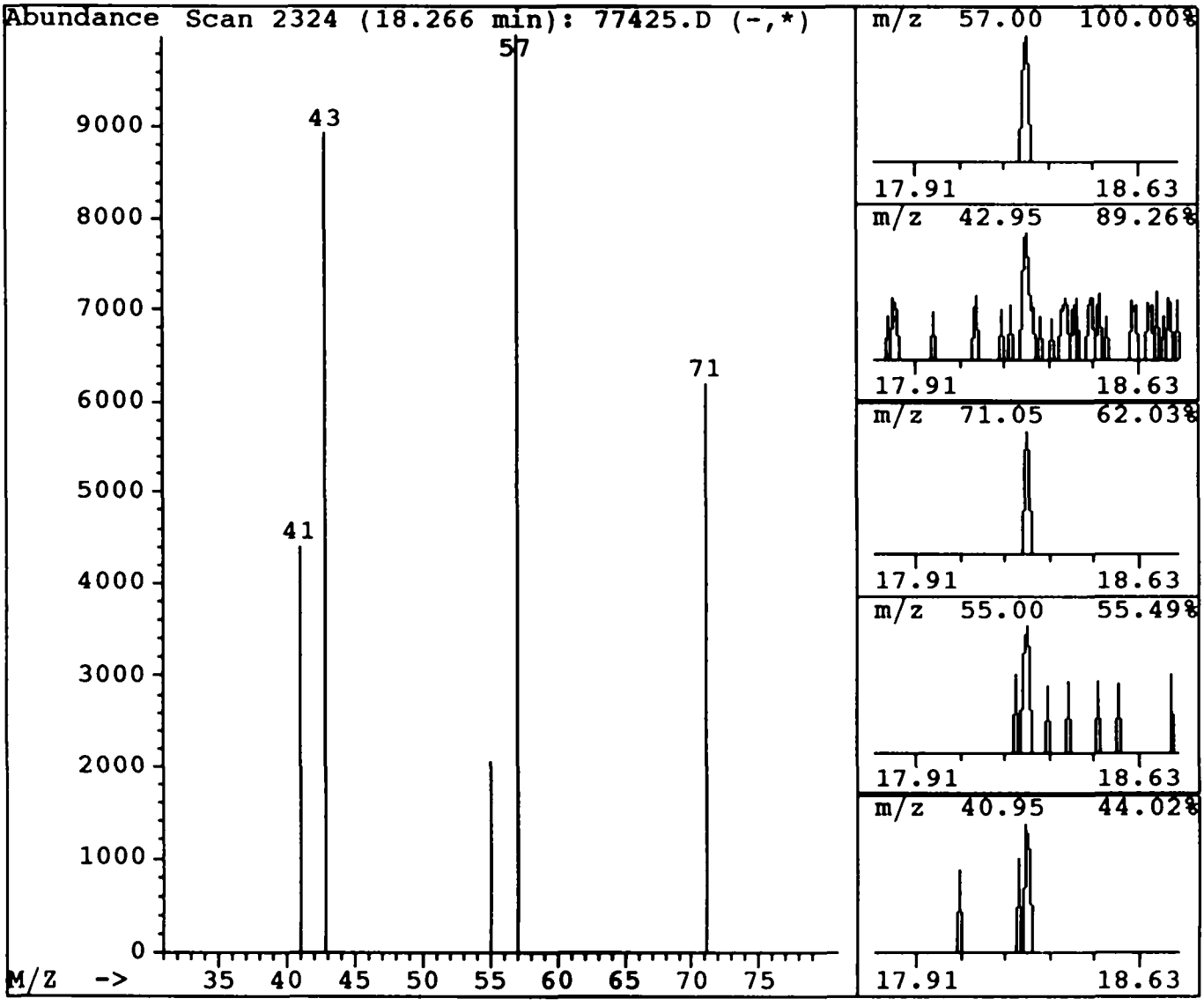
000387

Operator ID: AK Date Acquired: 4 Apr 96 23:26
Data File: C:\CHEMPC\DATA\040496\77425.D
Name: FER94 EXT033096
Misc: HP6*USEPA*15411.02*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.27	4.16 ug/mL	14096	CI75 Perylene-d12	135421

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

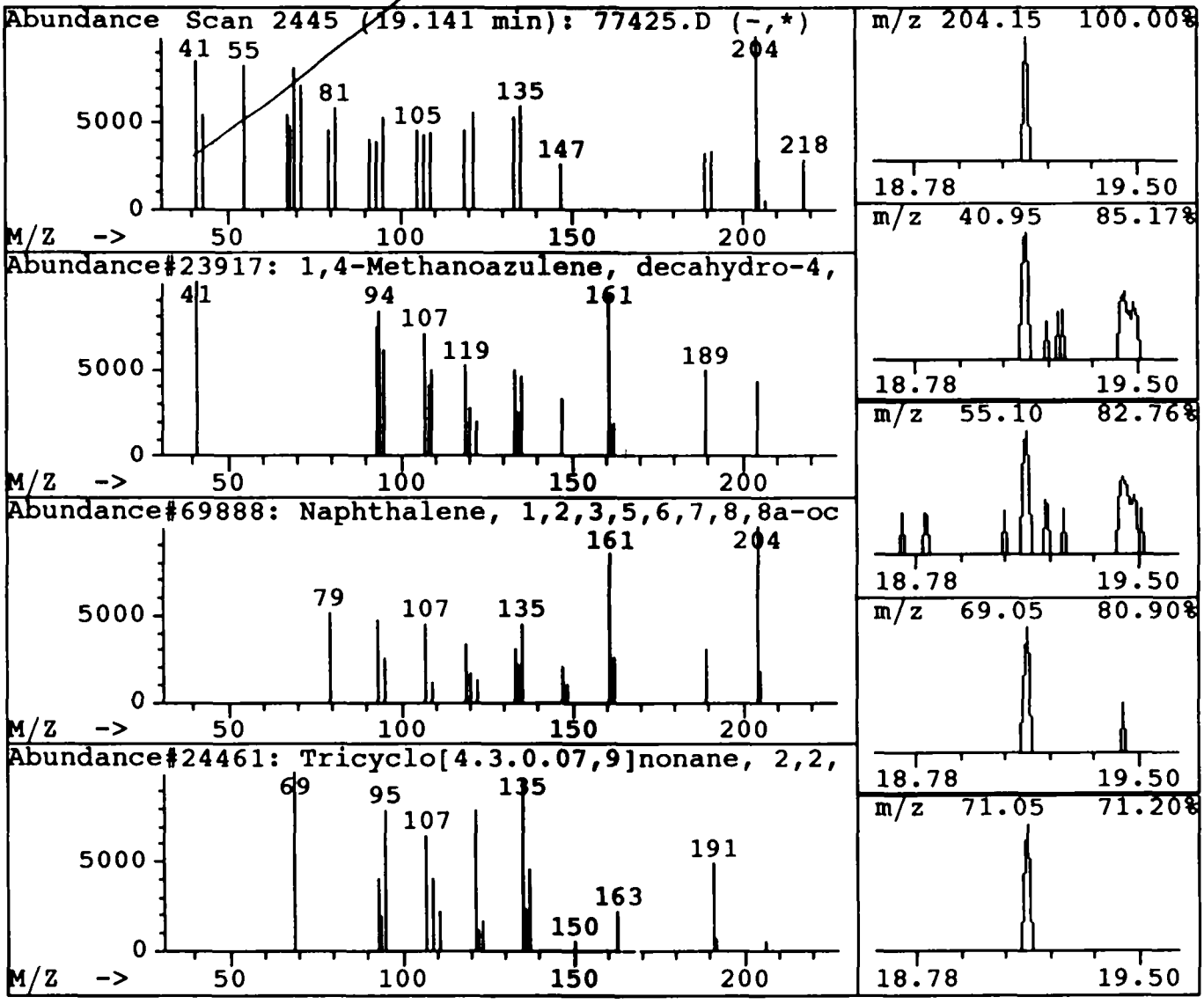
000388

Operator ID: AK Date Acquired: 4 Apr 96 23:26
Data File: C:\CHEMPC\DATA\040496\77425.D
Name: FER94 EXT033096
Misc: HP6*USEPA*15411.02*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.14	11.13 ug/mL	37691	CI75 Perylene-d12	135421

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Methanoazulene, decahydro-4,8,8	23917	000475-20-7	38
2	Naphthalene, 1,2,3,5,6,7,8,8a-octah	69888	004630-07-3	38
3	Tricyclo[4.3.0.07,9]nonane, 2,2,5,5	24461	054832-82-5	38
4	Aciphyllene	23900	087745-31-1	38
5	1H-Cycloprop[e]azulene, decahydro-1	69946	000489-39-4	37



1F **000391** EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FER95

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541103

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77426

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 1.0 4/4/96

GPC Cleanup: (Y/N) Y pH: 7.0

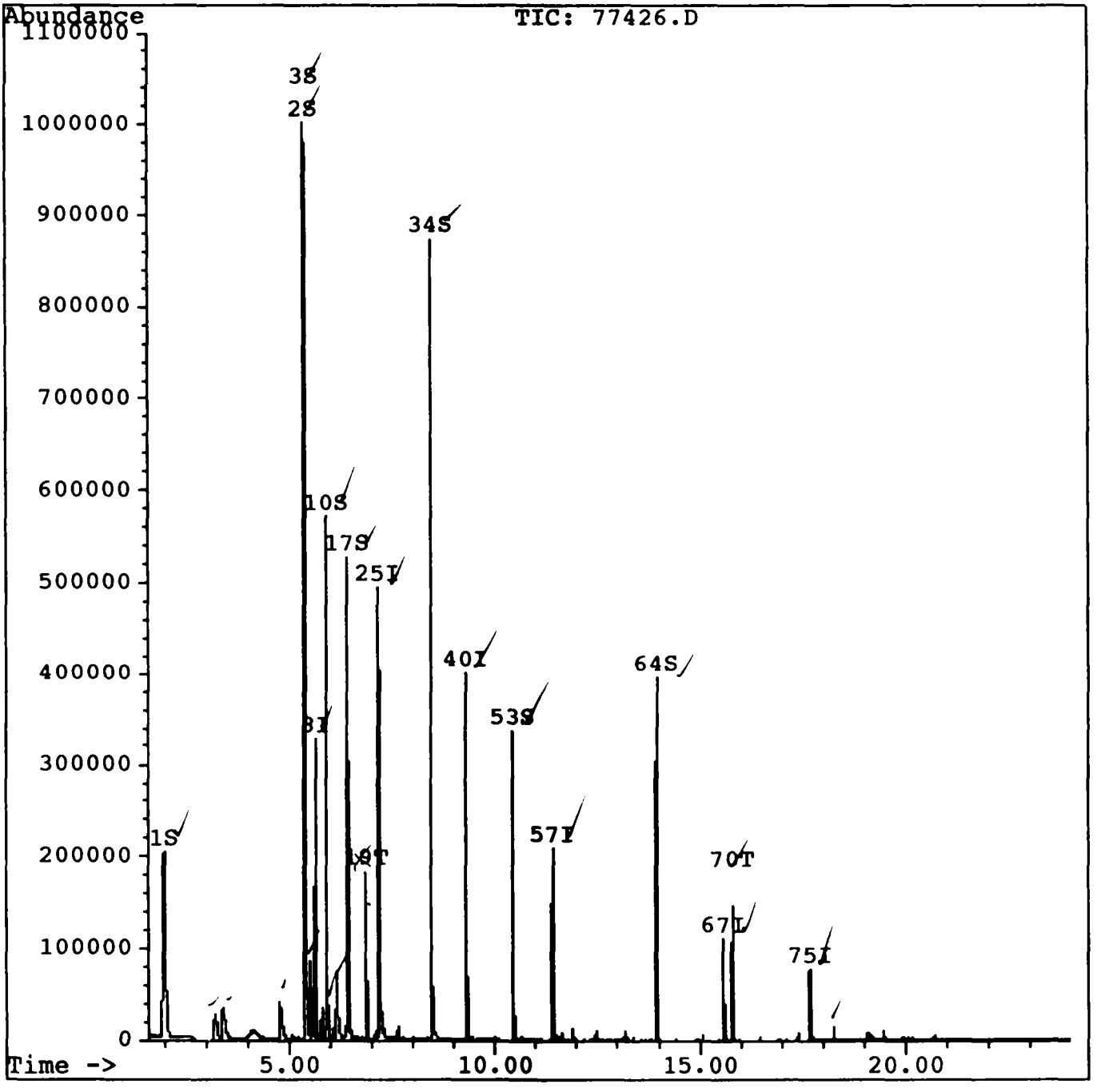
Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.22	190	AJ
2.		Aldol condensation	3.40	290	ABJ
3.		Aldol condensation	4.77	230	ABJ
4.		Aldol condensation	5.52	220	ABJ
5.		Aldol condensation	5.77	100	AJ
6.		Unknown	6.13	350	J
7.		Unknown	18.27	86	J

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 23:56
Data File: C:\CHEMPC\DATA\040496\77426.D
Name: FER95 EXT033096
Misc: HP6*USEPA*15411.03*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration

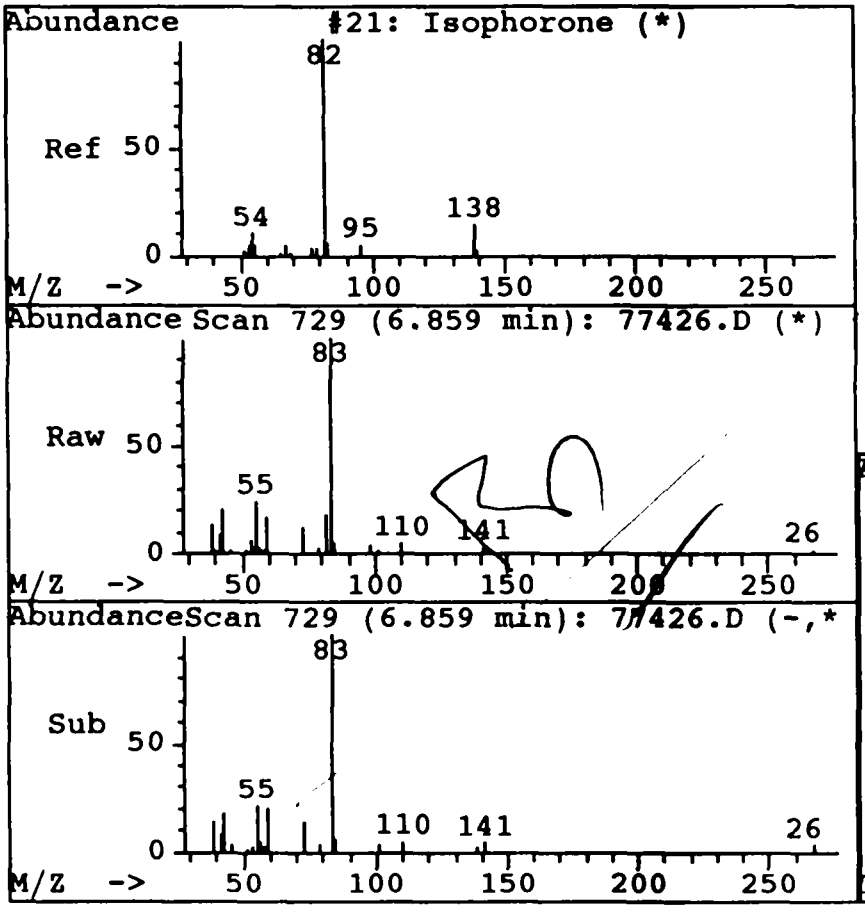


QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 23:56 000393
Data File: C:\CHEMPC\DATA\040496\77426.D
Name: FER95 EXT033096
Misc: HP6*USEPA*15411.03*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.64	152	83904	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.16	136	253824	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.30	164	119815	40.00	ug/mL	-0.00
57) CI60 Phenanthrene-d10	11.41	188	129724	40.00	ug/mL	-0.01
67) CI70 Chrysene-d12	15.57	240	84443	40.00	ug/mL	-0.00
75) CI75 Perylene-d12	17.68	264	78320	40.00	ug/mL	-0.01
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.99	112	215585	110.74	ug/mL	73.82%
2) CS45 Phenol-d5	5.38	99	284648	93.34	ug/mL	62.22%
3) CS70 2-Chlorophenol-d4	5.38	132	273316	106.22	ug/mL	70.81% ✓
10) CS75 1,2-Dichlorobenzene-d	5.90	152	119073	68.60	ug/mL	68.60%
17) CS20 Nitrobenzene-d5	6.41	82	201339	67.69	ug/mL	67.69%
34) CS25 2-Fluorobiphenyl	8.45	172	311232	74.20	ug/mL	74.20%
53) CS55 2,4,6-Tribromophenol	10.43	330	54359	116.33	ug/mL	77.56%
64) CS30 Terphenyl-d14	13.95	244	171386	86.59	ug/mL	86.59%
Target Compounds						ISTD#
19) C415 ~~Isophorone~~	~~6.86~~	82	13852	2.96	ug/mL	002#
70) C745 bis(2-Ethylhexyl)phth	15.80	149	53628	23.51	ug/mL	✓ 005

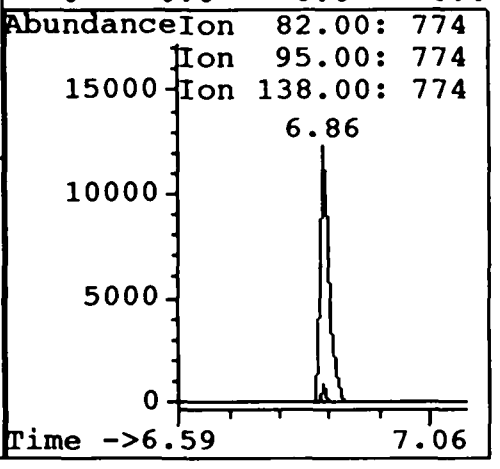
(#) = qualifier out of range

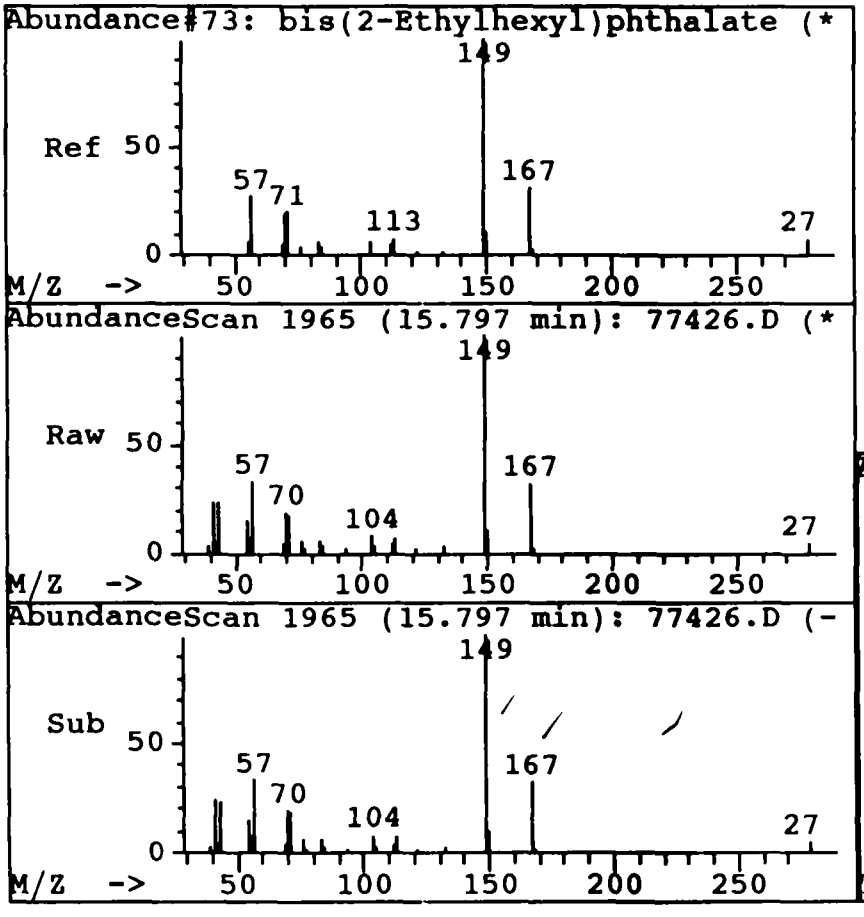


#19 Inst: HP6
C415 Isophorone
Concen: 2.96 ug/mL
RT: 6.86 min Scan# 729
Delta R.T. 0.17 min
Lab File: 77426.D
Acq: 4 Apr 96 23:56
FER95

Tgt Ion: 82 Area: 13852

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	2.9	0.0	35.2
0	0.0	0.0	0.0

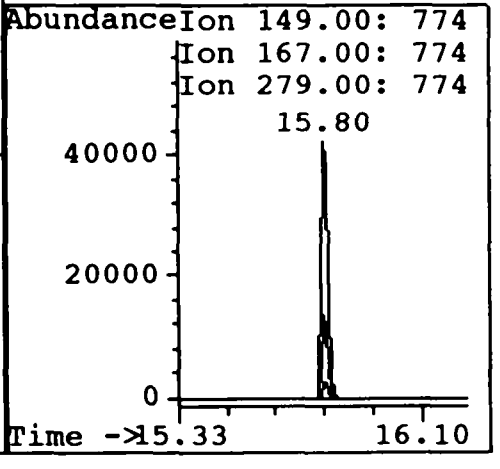




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 23.51 ug/mL
RT: 15.80 min Scan# 1965
Delta R.T. -0.01 min
Lab File: 77426.D
Acq: 4 Apr 96 23:56
FER95

Tgt Ion: 149 Area: 53628

Ion	Ratio	Lower	Upper
149	100		
167	30.0	13.5	53.5
279	5.6	0.0	29.5
0	0.0	0.0	0.0



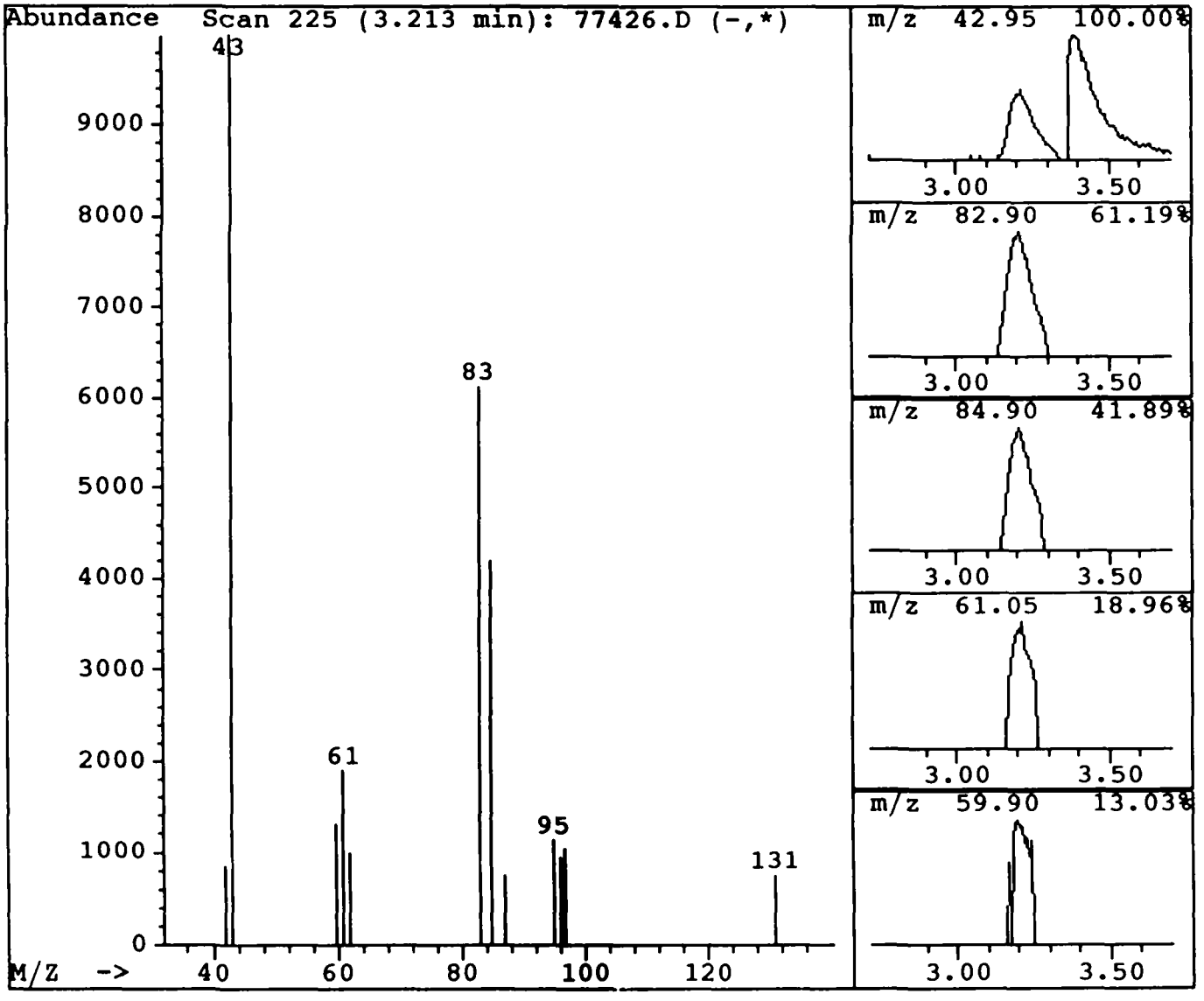
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 23:56
Data File: C:\CHEMPC\DATA\040496\77426.D
Name: FER95 EXT033096
Misc: HP6*USEPA*15411.03*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.21	9.88 ug/mL	133010	CI30 1,4-Dichlorobenzene-	538494

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



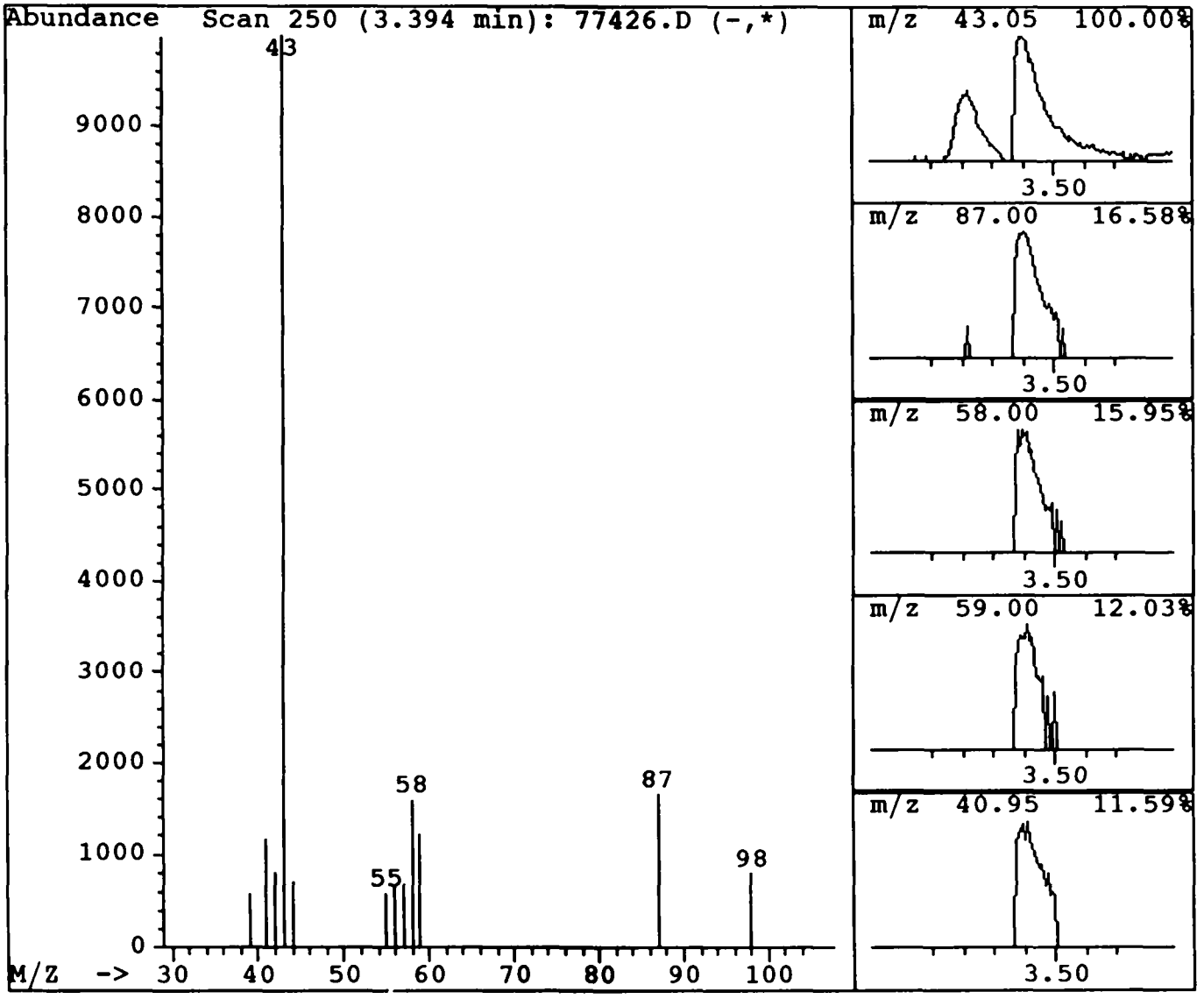
Tentatively Identified Compound (LSC) **000396**

Operator ID: AK Date Acquired: 4 Apr 96 23:56
Data File: C:\CHEMPC\DATA\040496\77426.D
Name: FER95 EXT033096
Misc: HP6*USEPA*15411.03*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.39	15.00 ug/mL	201923	CI30 1,4-Dichlorobenzene-	538494

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

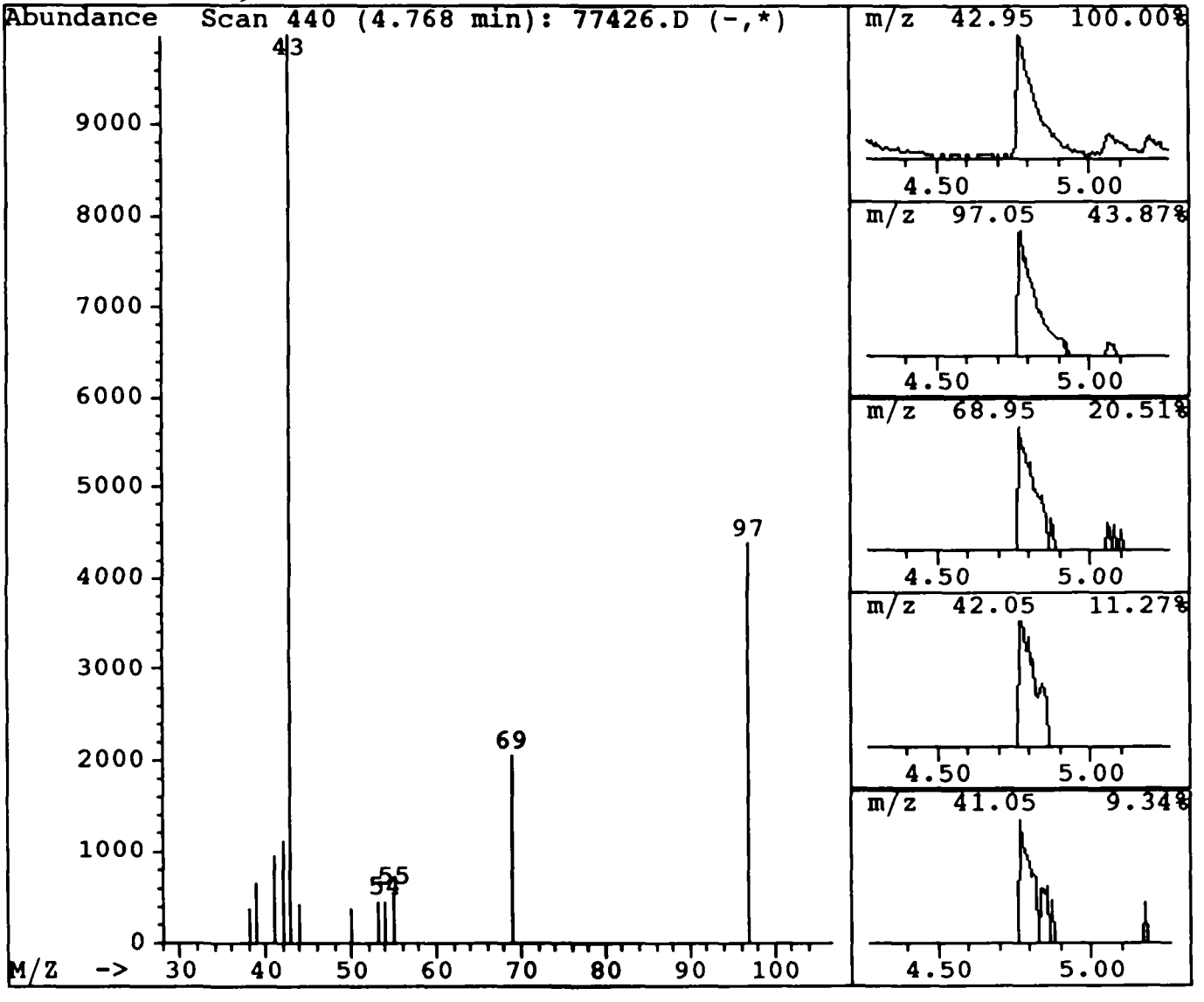
000397

Operator ID: AK Date Acquired: 4 Apr 96 23:56
Data File: C:\CHEMPC\DATA\040496\77426.D
Name: TER95 EXT033096
Misc: HP6*USEPA*15411.03*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	11.76 ug/mL	158269	CI30 1,4-Dichlorobenzene-	538494

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

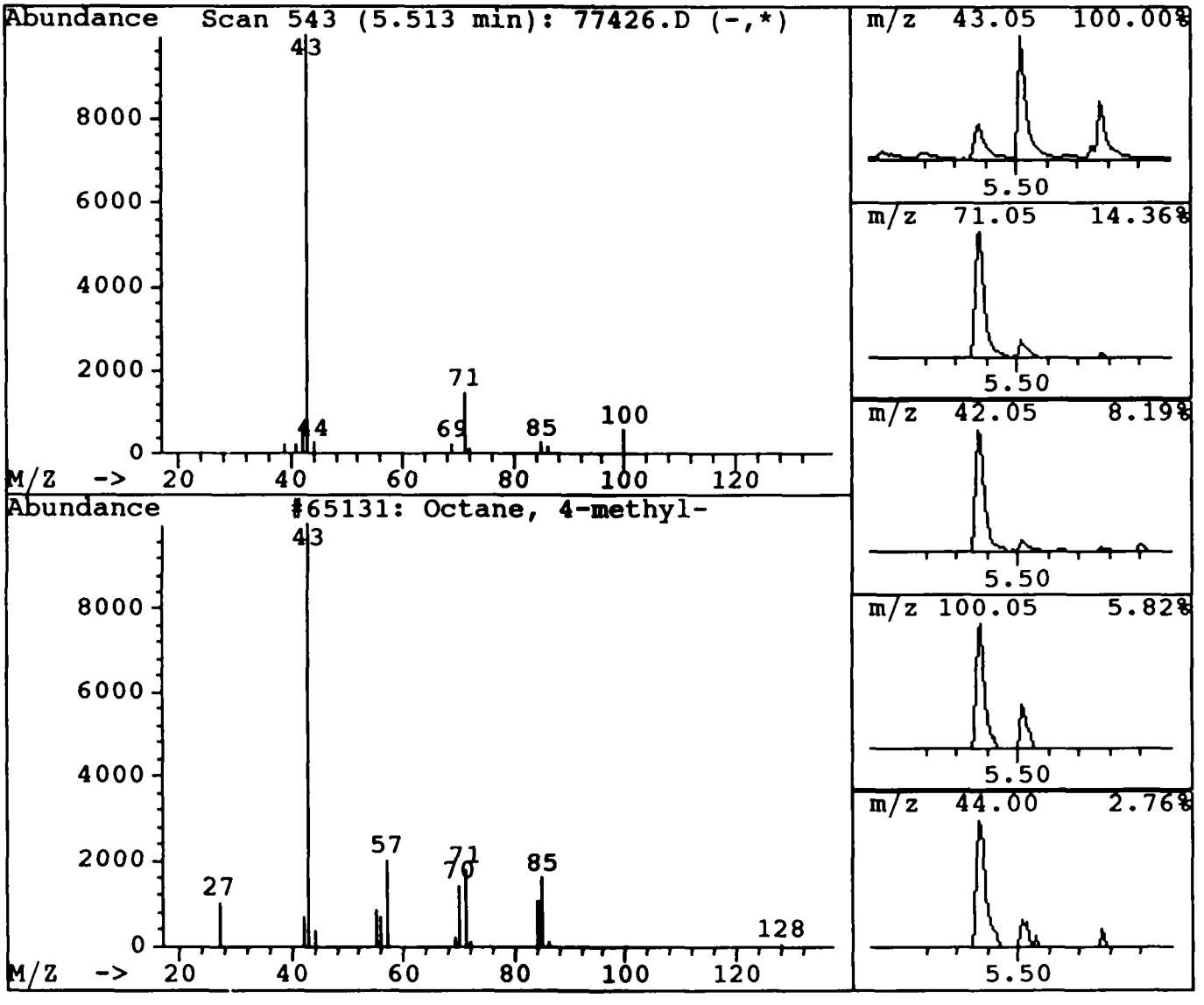
000398

Operator ID: AK Date Acquired: 4 Apr 96 23:56
Data File: C:\CHEMPC\DATA\040496\77426.D
Name: FER95 EXT033096
Misc: HP6*USEPA*15411.03*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	11.14 ug/mL	150013	0130 1,4-Dichlorobenzene-	538494

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-methyl-	65131	002216-34-4	40



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 23:56

000399

Data File: C:\CHEMPC\DATA\040496\77426.D

Name: FER95 EXT033096

Misc: HP6*USEPA*15411.03*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

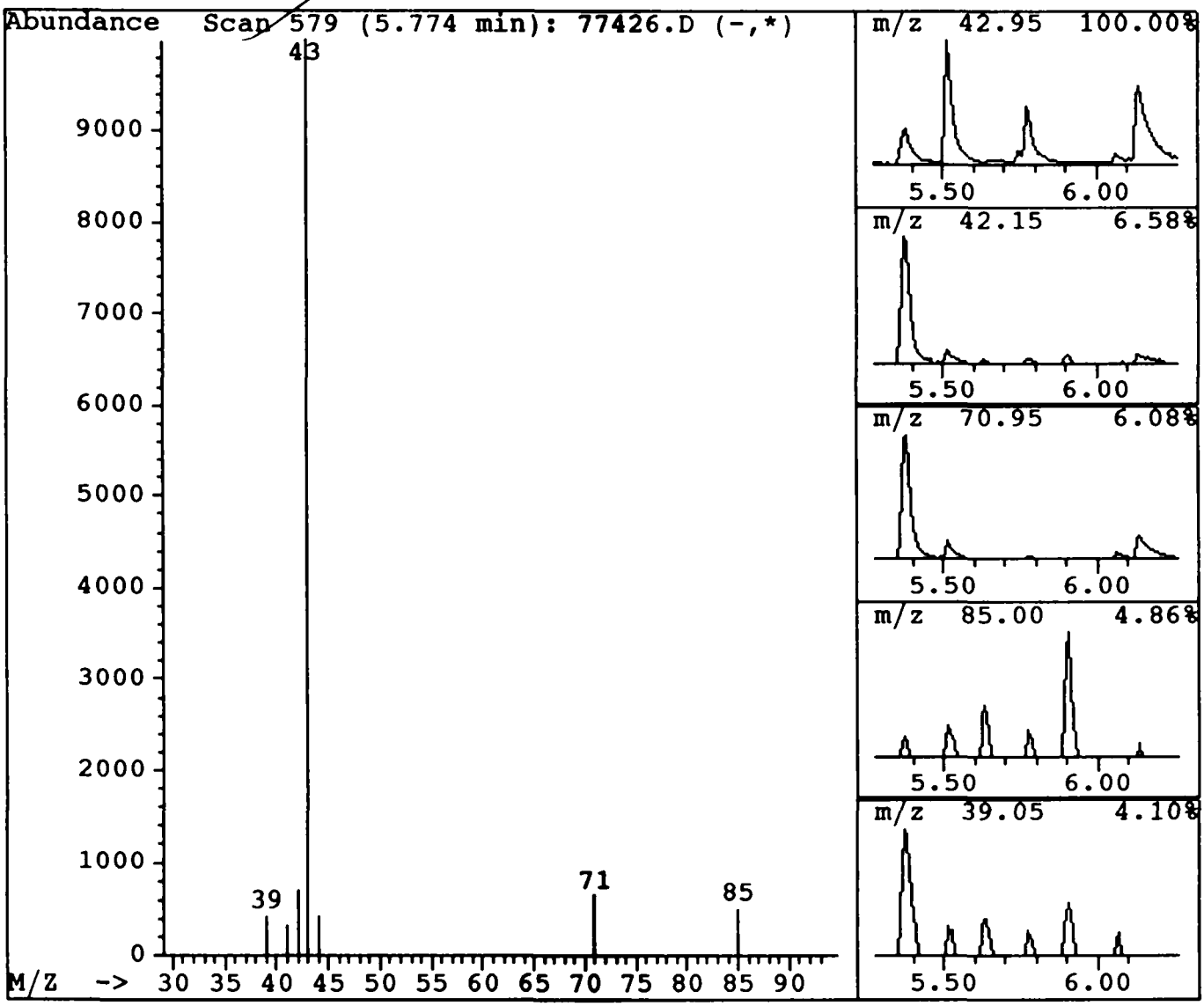
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	5.33 ug/mL	71760	CI30 1,4-Dichlorobenzene-	538494

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

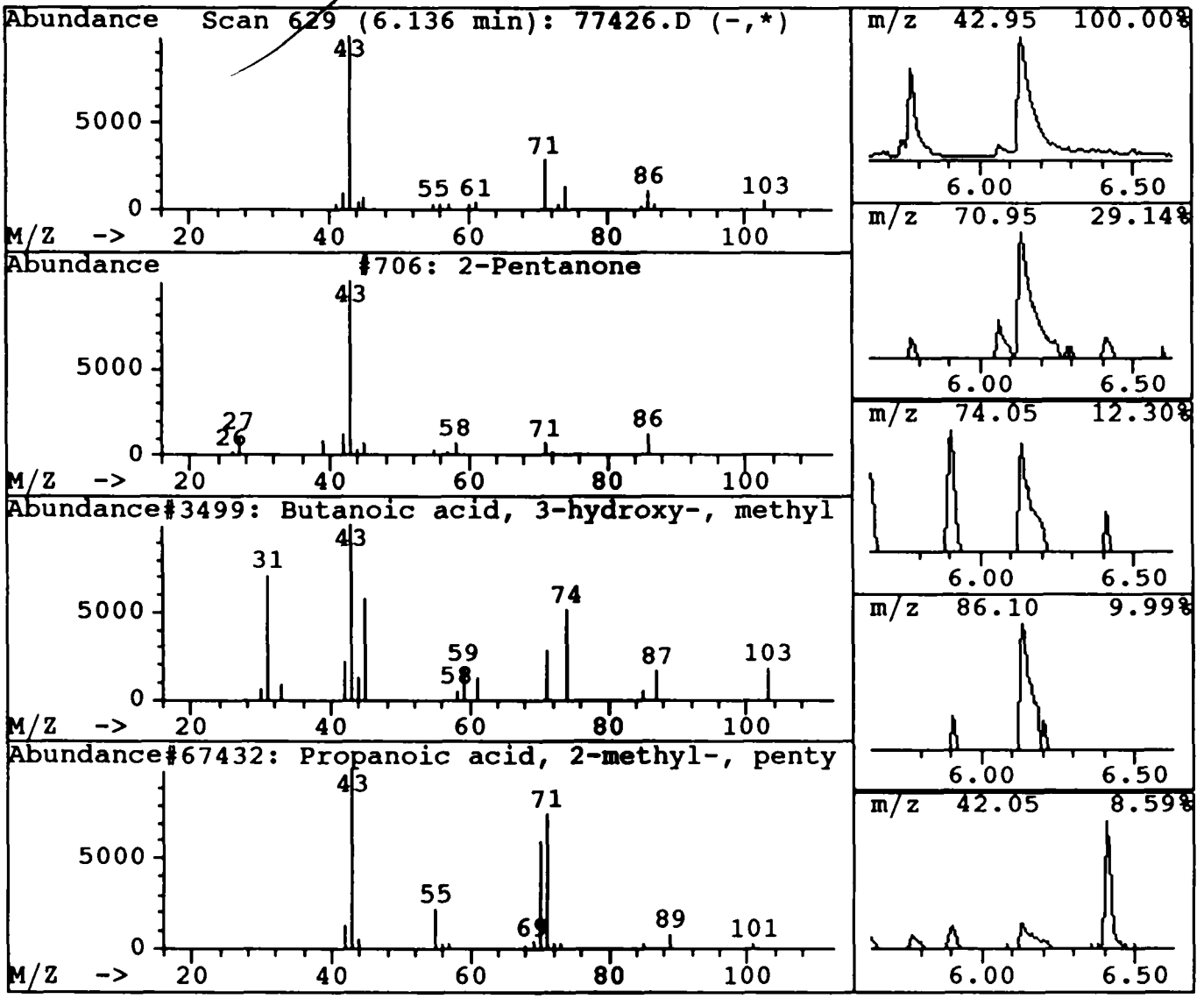
000400

Operator ID: AK Date Acquired: 4 Apr 96 23:56
Data File: C:\CHEMPC\DATA\040496\77426.D
Name: FER95 EXT033096
Misc: HP6*USEPA*15411.03*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.14	18.16 ug/mL	244484	CI30 1,4-Dichlorobenzene-	538494

Hit# of 3	Tentative ID	Ref#	CAS#	Qual
1	2-Pentanone	706	000107-87-9	38
2	Butanoic acid, 3-hydroxy-, methyl e	3499	001487-49-6	17
3	Propanoic acid, 2-methyl-, pentyl e	67432	002445-72-9	12



Tentatively Identified Compound (LSC)

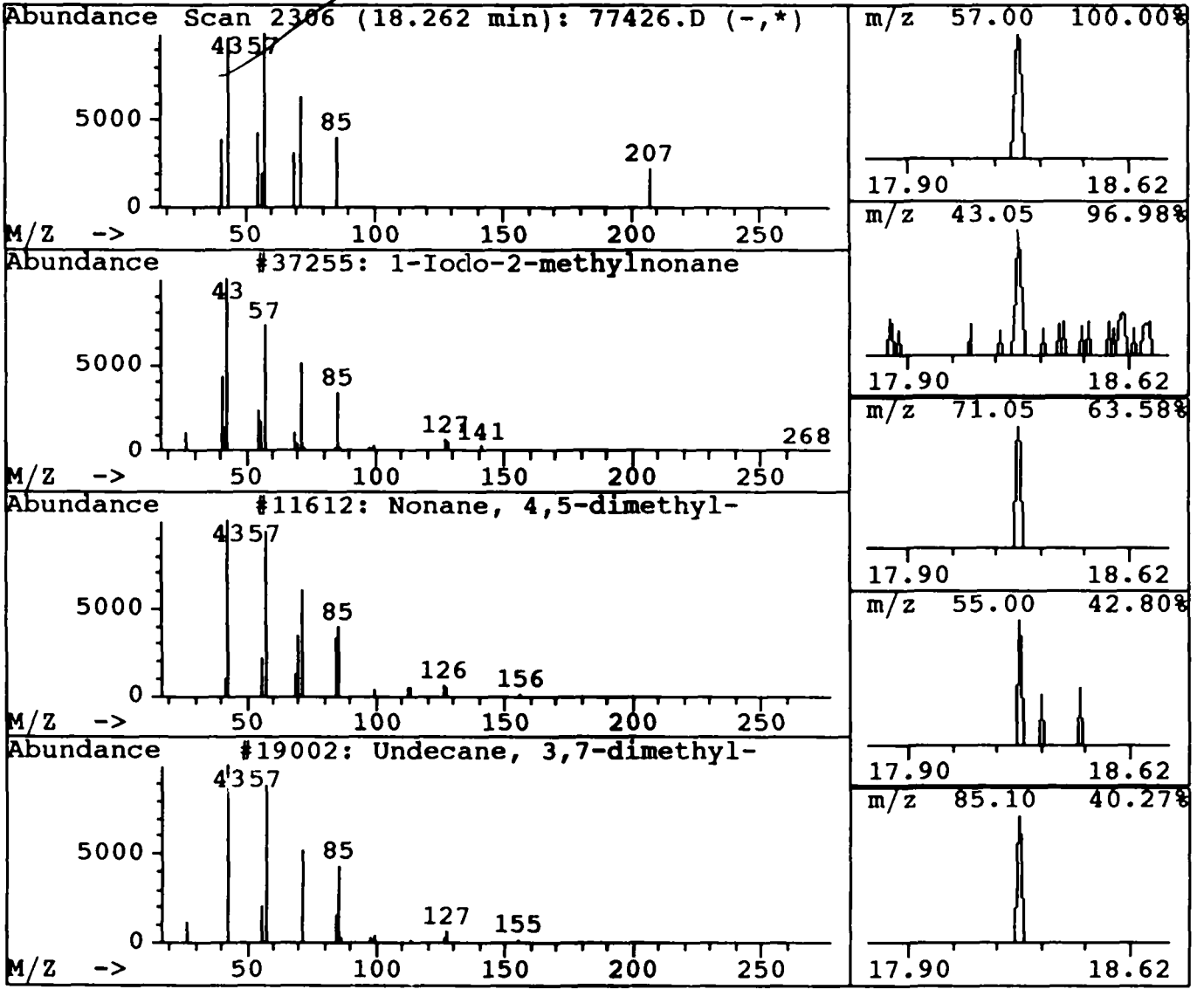
000401

Operator ID: AK Date Acquired: 4 Apr 96 23:56
Data File: C:\CHEMPC\DATA\040496\77426.D
Name: FER95 EXT033096
Misc: HP6*USEPA*15411.03*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.26	4.45 ug/mL	18032	CI75 Perylene-d12	162168

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1-Iodo-2-methylnonane	37255	000000-00-0	64
2	Nonane, 4,5-dimethyl-	11612	017302-23-7	50
3	Undecane, 3,7-dimethyl-	19002	017301-29-0	50
4	Tricosane	46165	000638-67-5	50
5	Tridecane	69017	000629-50-5	50



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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000404 EPA SAMPLE NO.

FER97

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541104

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77427

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/14/96

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

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.37	380	ABJ
2.		Aldol condensation	4.77	280	ABJ
3.		Aldol condensation	5.52	300	ABJ
4.		Aldol condensation	5.77	170	AJ
5.		Unknown	6.13	360	J
6.		Unknown	7.20	790	J

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 00:26

000405

Data File: C:\CHEMPC\DATA\040496\77427.D

Name: FER97 EXT033096

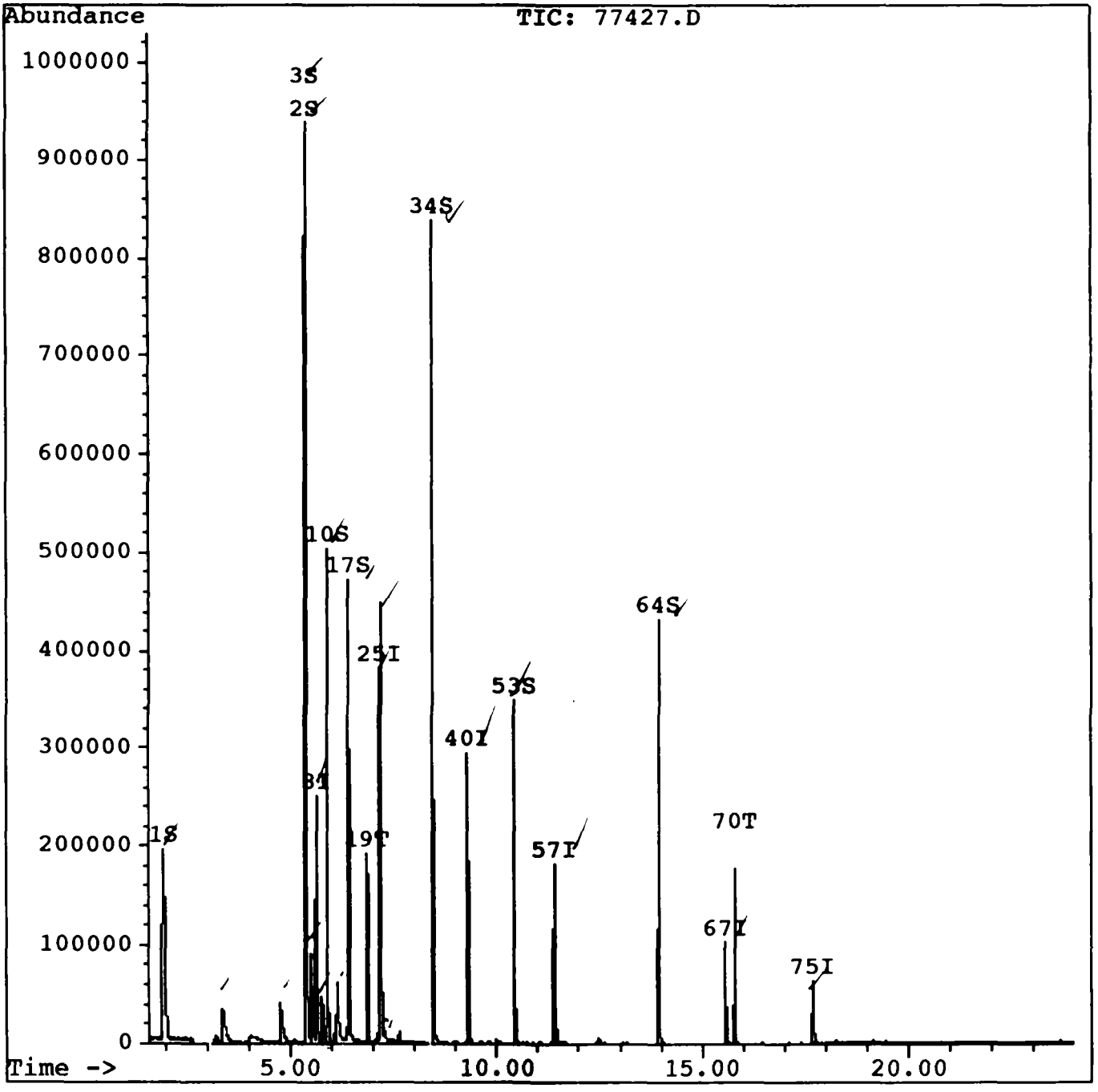
Misc: HP6*USEPA*15411.04*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 00:26

000406

Data File: C:\CHEMPC\DATA\040496\77427.D

Name: FER97 EXT033096

Misc: HP6*USEPA*15411.04*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

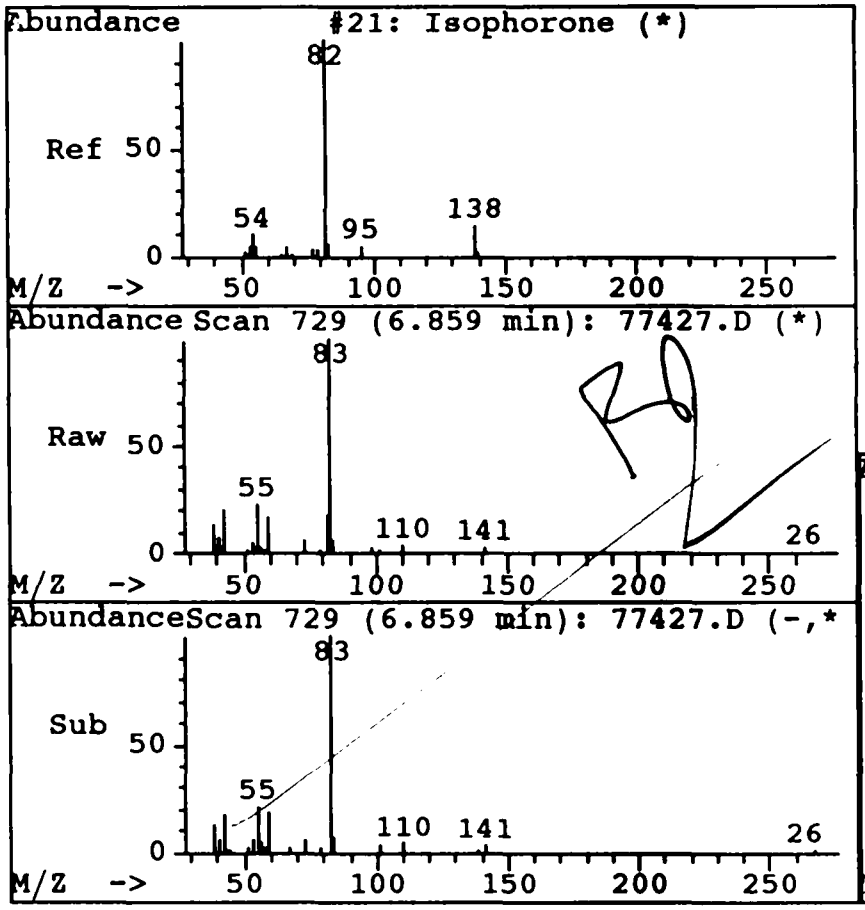
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.64	152	67874	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.16	136	209987	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.30	164	100737	40.00	ug/mL	-0.00
57) CI60 Phenanthrene-d10	11.41	188	119692	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.57	240	81258	40.00	ug/mL	-0.00
75) CI75 Perylene-d12	17.69	264	66871	40.00	ug/mL	-0.01
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.97	112	200036	127.02	ug/mL	84.68%
2) CS45 Phenol-d5	5.37	99	269034	109.05	ug/mL	72.70%
3) CS70 2-Chlorophenol-d4	5.37	132	257211	123.57	ug/mL	82.38%
10) CS75 1,2-Dichlorobenzene-d	5.90	152	111598	79.48	ug/mL	79.48%
17) CS20 Nitrobenzene-d5	6.41	82	189143	76.87	ug/mL	76.87% ✓
34) CS25 2-Fluorobiphenyl	8.45	172	299178	84.84	ug/mL	84.84%
53) CS55 2,4,6-Tribromophenol	10.43	330	59638	138.33	ug/mL	92.22%
64) CS30 Terphenyl-d14	13.96	244	197910	103.91	ug/mL	103.91%
Target Compounds						ISTD#
19) C415 ~~Isophorone~~	~~6.86~~	82	16007	4.14	ng/mL	002#
70) C745 bis(2-Ethylhexyl)phth	15.80	149	66218	30.17 ✓	ug/mL	005

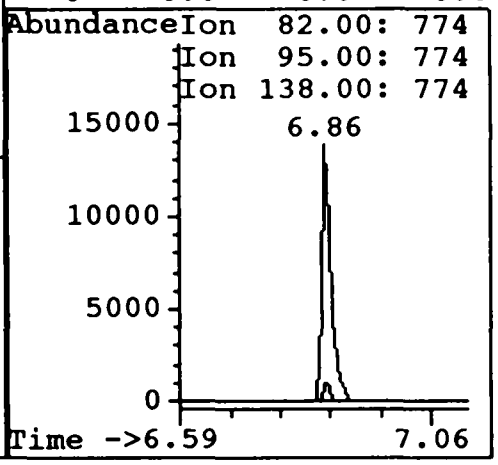
(#) = qualifier out of range

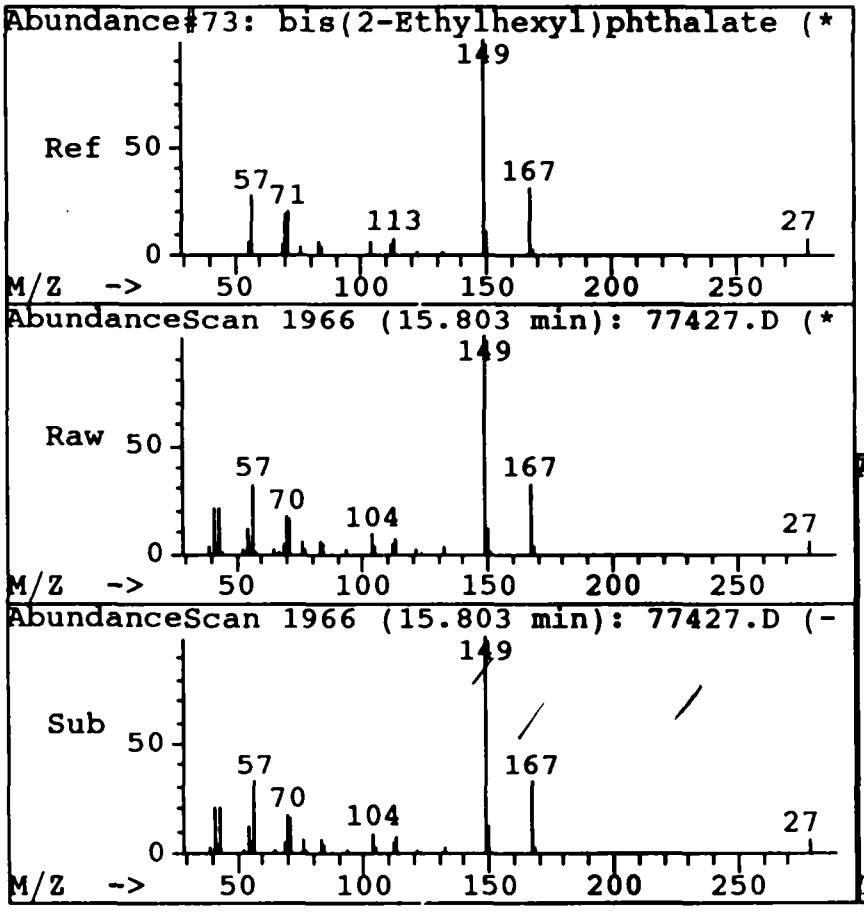


#19 Inst: HP6
C415 Isophorone
Concen: 4.14 ug/mL
RT: 6.86 min Scan# 729
Delta R.T. 0.17 min
Lab File: 77427.D
Acq: 5 Apr 96 00:26
FER97

Tgt Ion: 82 Area: 16007

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	4.9	0.0	35.2
0	0.0	0.0	0.0

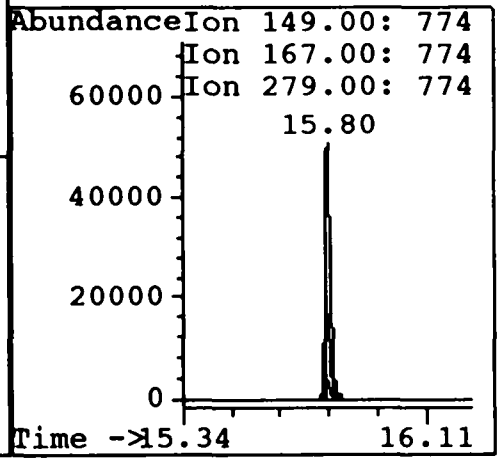




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 30.17 ug/mL
RT: 15.80 min Scan# 1966
Delta R.T. -0.00 min
Lab File: 77427.D
Acq: 5 Apr 96 00:26
FER97

Tgt Ion: 149 Area: 66218

Ion	Ratio	Lower	Upper
149	100		
167	30.2	13.5	53.5
279	4.5	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

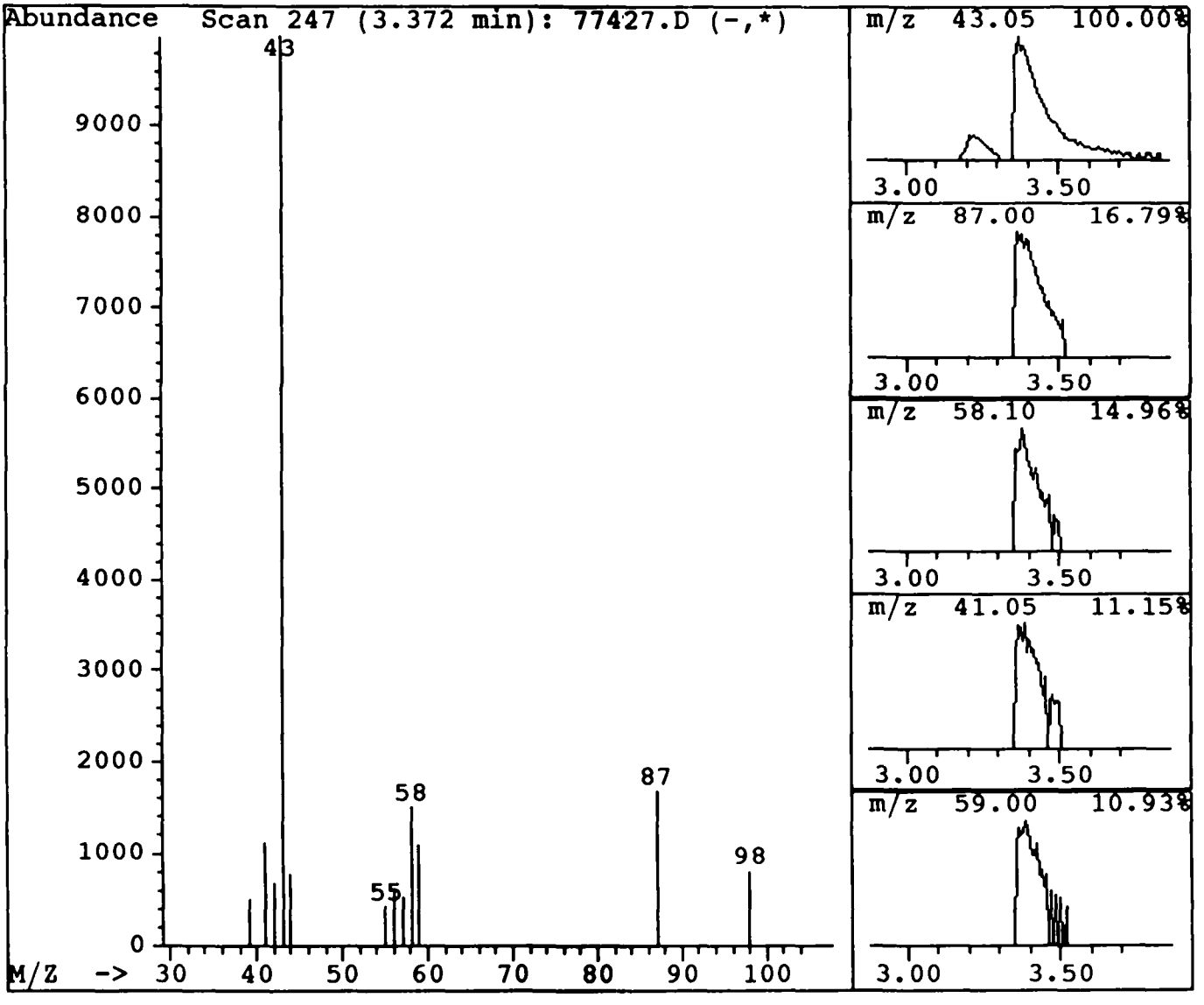
000408

Operator ID: AK Date Acquired: 5 Apr 96 00:26
Data File: C:\CHEMPC\DATA\040496\77427.D
Name: FER97 EXT033096
Misc: HP6*USEPA*15411.04*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.37	19.08 ug/mL	205324	CI30 1,4-Dichlorobenzene-	430447

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

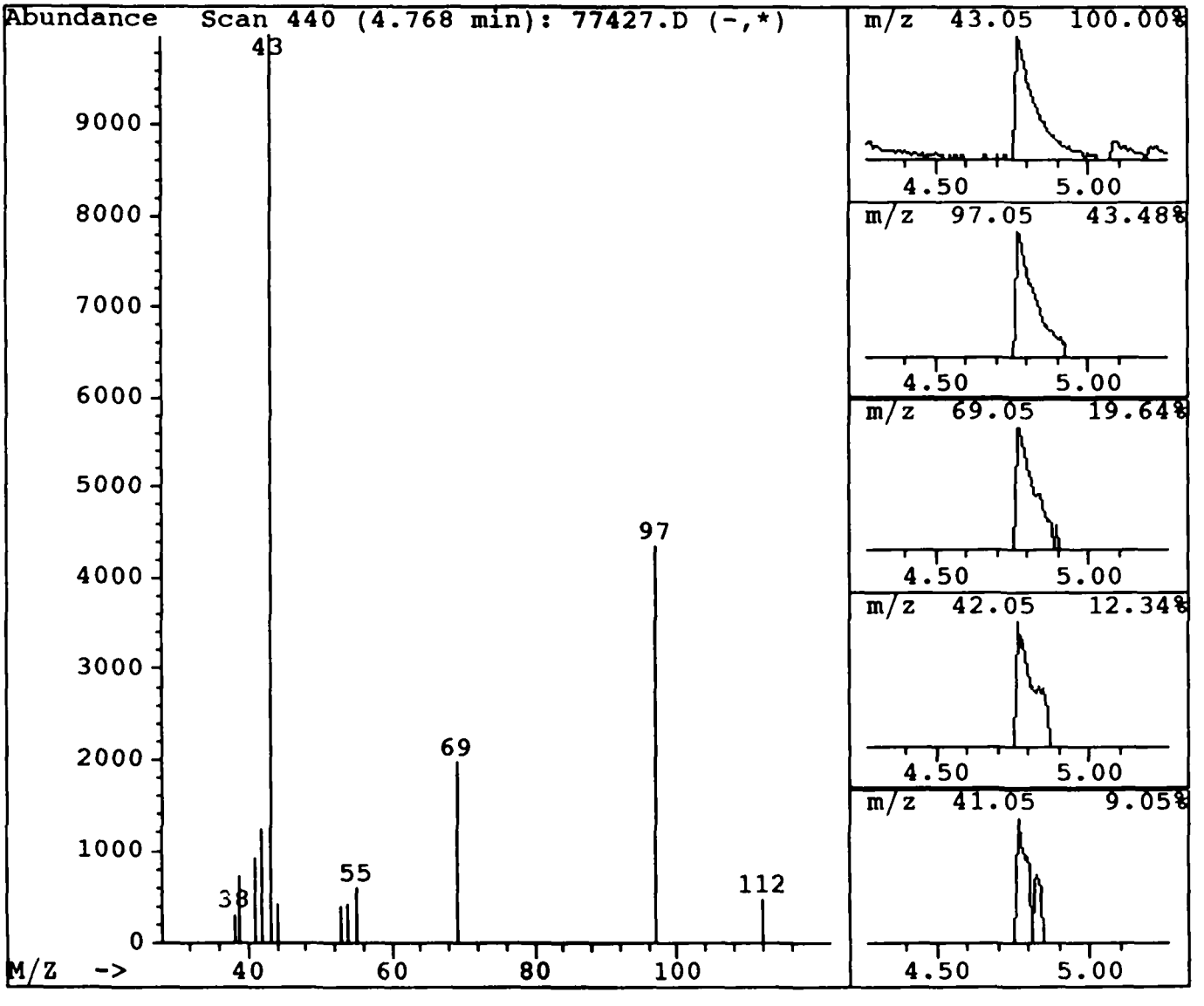
000409

Operator ID: AK Date Acquired: 5 Apr 96 00:26
Data File: C:\CHEMPC\DATA\040496\77427.D
Name: FER97 EXT033096
Misc: HP6*USEPA*15411.04*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	14.32 ug/mL	154090	CI30 1,4-Dichlorobenzene-	430447

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

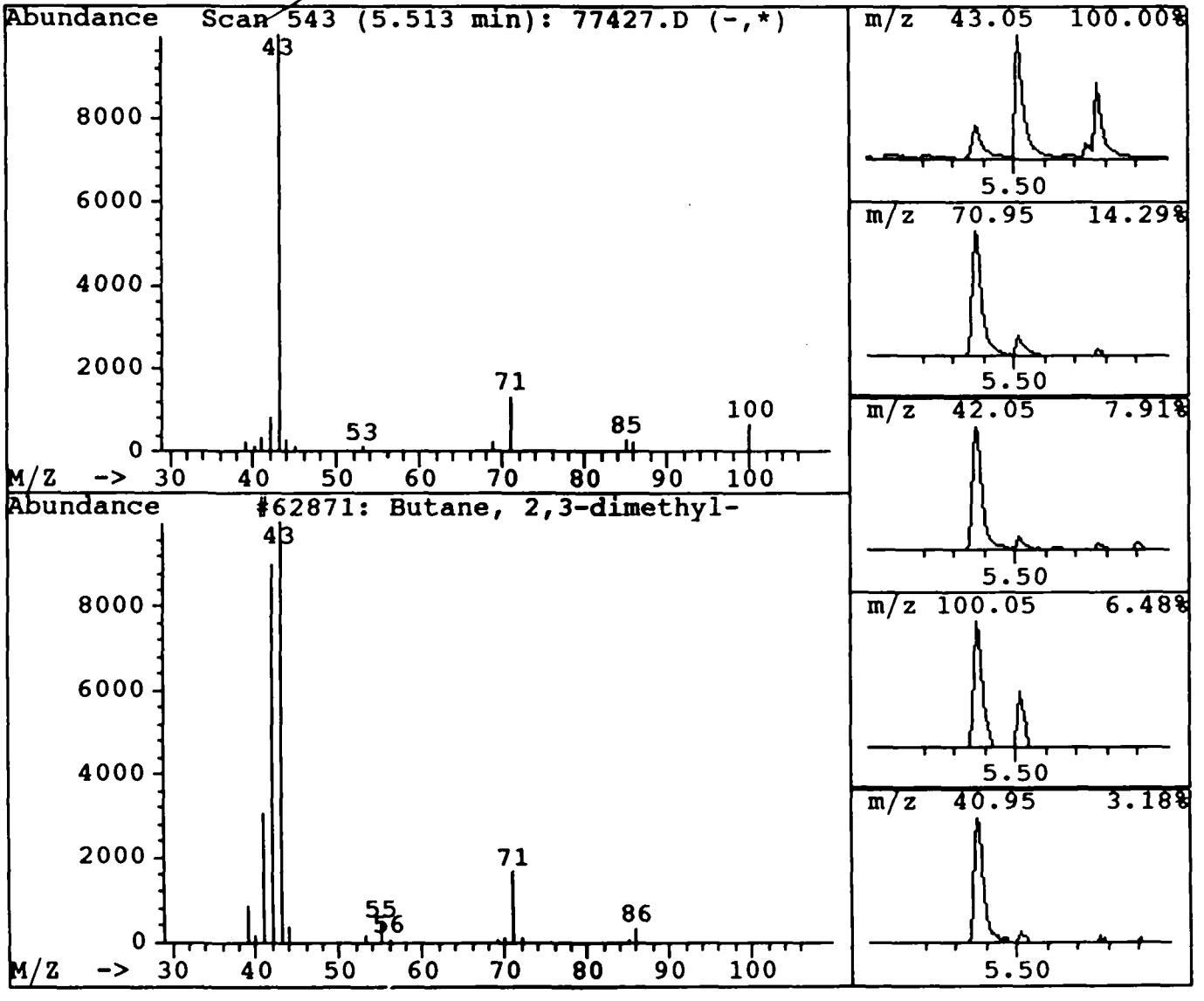
000410

Operator ID: AK Date Acquired: 5 Apr 96 00:26
Data File: C:\CHEMPC\DATA\040496\77427.D
Name: FER97 EXT033096
Misc: HP6*USEPA*15411.04*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	15.04 ug/mL	161880	CI30 1,4-Dichlorobenzene-	430447

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Butane, 2,3-dimethyl-	62871	000079-29-8	42



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 00:26

Data File: C:\CHEMPC\DATA\040496\77427.D

000411

Name: FER97 EXT033096

Misc: HP6*USEPA*15411.04*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

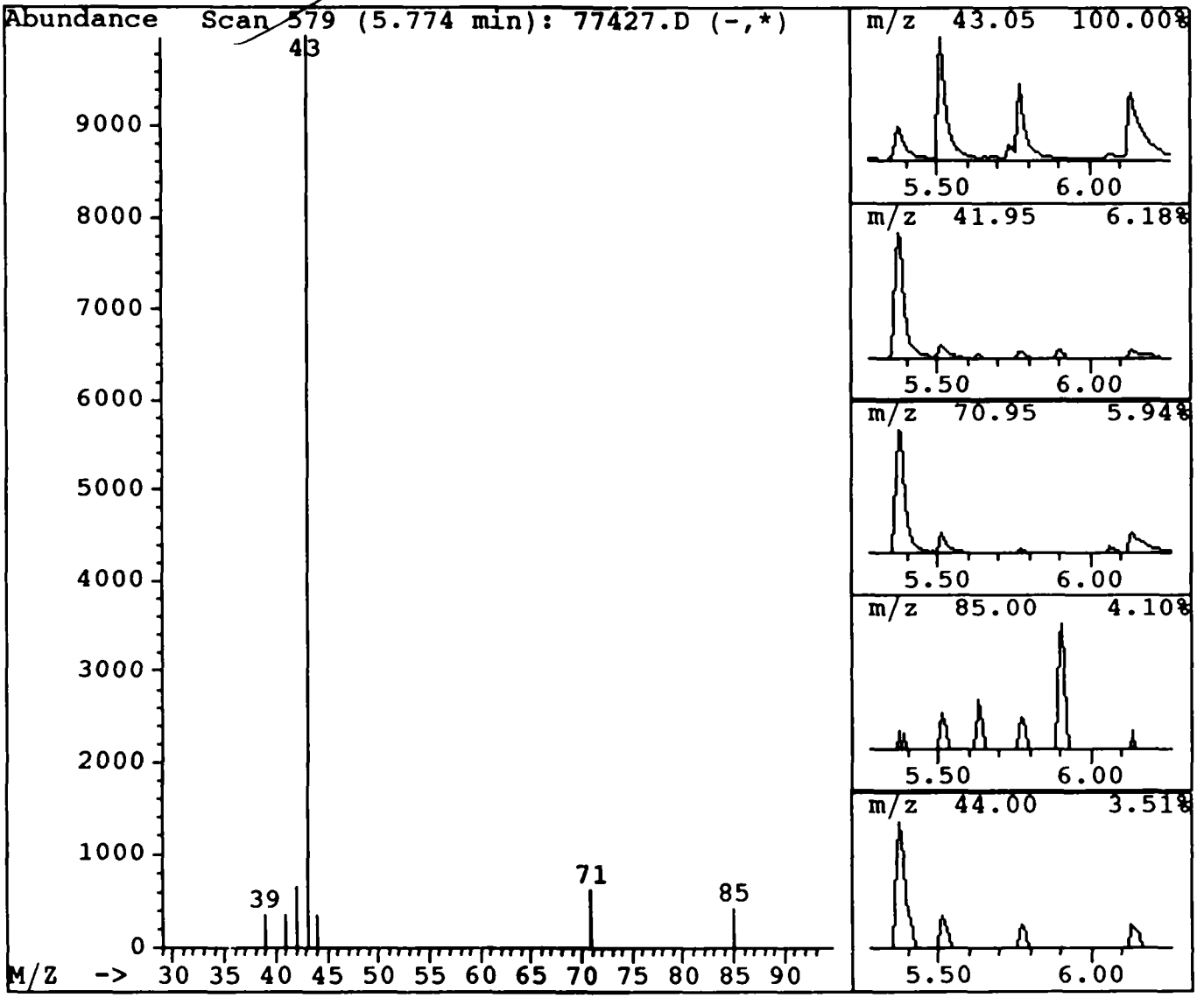
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	8.76 ug/mL	94237	CI30 1,4-Dichlorobenzene-	430447

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

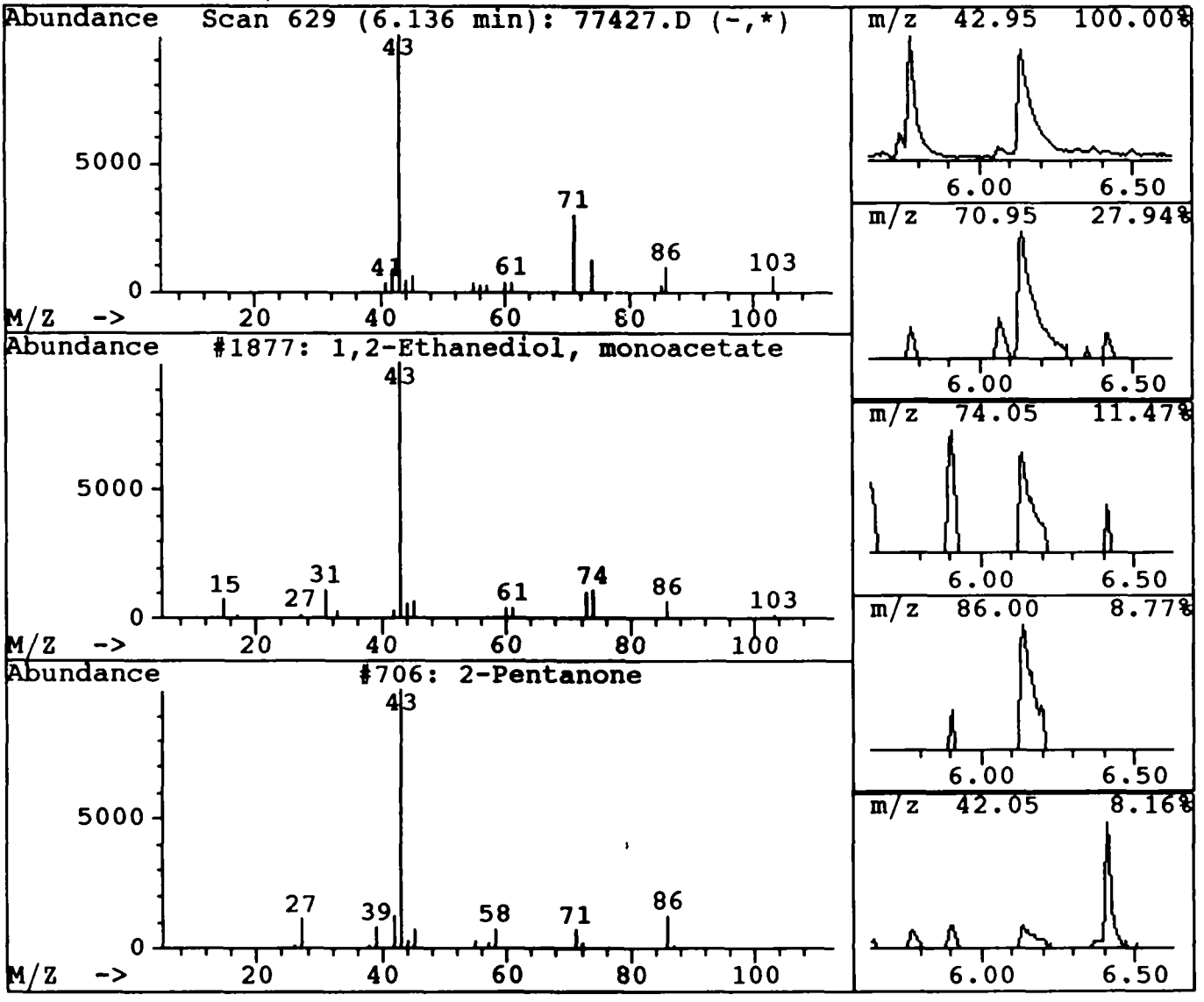
000412

Operator ID: AK Date Acquired: 5 Apr 96 00:26
Data File: C:\CHEMPC\DATA\040496\77427.D
Name: FER97 EXT033096
Misc: HP6*USEPA*15411.04*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.14	18.13 ug/mL	195070	CI30 1,4-Dichlorobenzene-	430447

Hit# of 2	Tentative ID	Ref#	CAS#	Qual
1	1,2-Ethanediol, monoacetate	1877	000542-59-6	40
2	2-Pentanone	706	000107-87-9	38



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 00:26

000413

Data File: C:\CHEMPC\DATA\040496\77427.D

Name: FER97 EXT033096

Misc: HP6*USEPA*15411.04*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

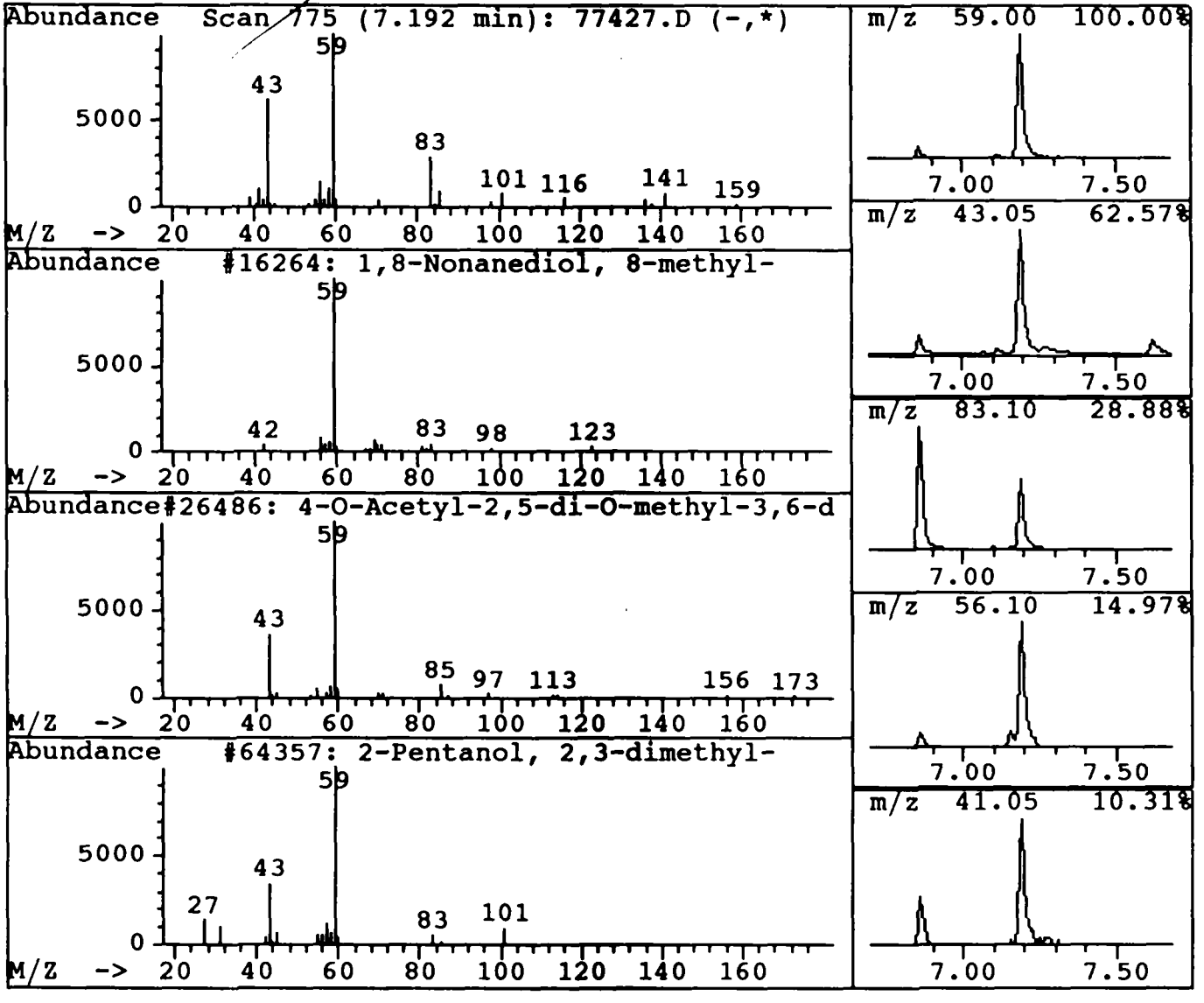
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.19	40.00 ug/mL	1075748	CI40 Naphthalene-d8	1075748

Hit# of 13	Tentative ID	Ref#	CAS#	Qual
1	1,8-Nonanediol, 8-methyl-	16264	054725-73-4	42
2	4-O-Acetyl-2,5-di-O-methyl-3,6-dide	26486	000000-00-0	40
3	2-Pentanol, 2,3-dimethyl-	64357	004911-70-0	38
4	3-Decanol	12061	001565-81-7	36
5	2-Methyl-2-nonanol	12077	010297-57-1	33



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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000416

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

FER98

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541105

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77428

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 15 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0 ~~0.5~~ 2 2/4/96

GPC Cleanup: (Y/N) Y pH: 8.1

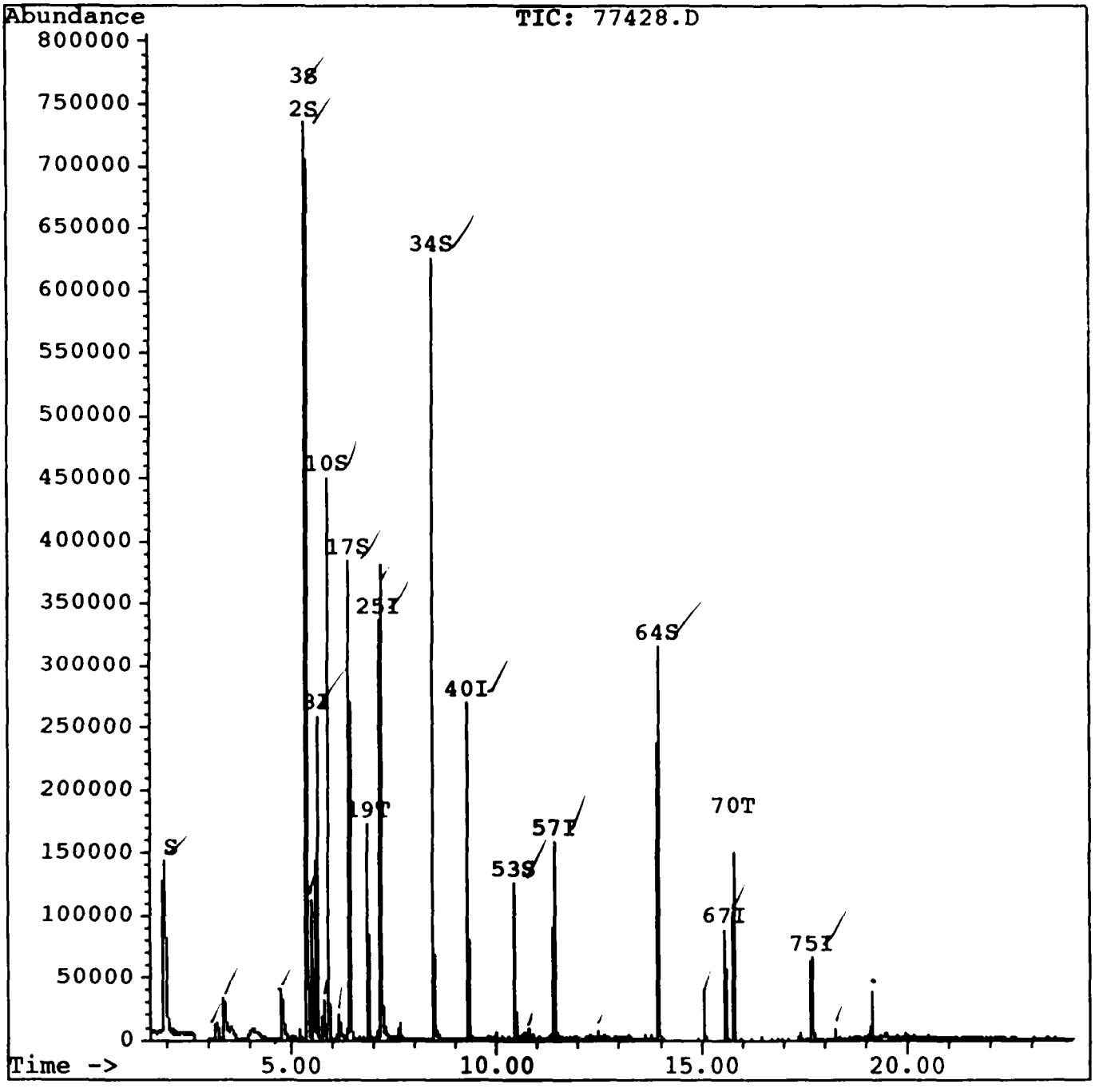
Number TICs found: 11

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	3.20	130	AJ
2.	Aldol condensation	3.37	460	ABJ
3.	Aldol condensation	4.77	280	ABJ
4.	Aldol condensation	5.50	420	ABJ
5.	Aldol condensation	5.77	110	AJ
6.	Unknown	6.15	160	J
7.	Unknown	7.20	780	J
8.	Unknown	10.77	87	J
9.	Unknown	12.48	180	J
10.	Unknown	15.07	210	J
11.	Unknown	18.27	120	J

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 00:57 **000417**
Data File: C:\CHEMPC\DATA\040496\77428.D
Name: FER98 EXT033096
Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 00:57

000418

Data File: C:\CHEMPC\DATA\040496\77428.D
Name: FER98 EXT033096
Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration

Internal Standards

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8)	CI30 1,4-Dichlorobenzene-d	5.64	152	65405	40.00	ug/mL	0.01
25)	CI40 Naphthalene-d8	7.16	136	193111	40.00	ug/mL	-0.00
40)	CI50 Acenaphthene-d10	9.30	164	85286	40.00	ug/mL	0.00
57)	CI60 Phenanthrene-d10	11.42	188	90595	40.00	ug/mL	-0.00
67)	CI70 Chrysene-d12	15.57	240	68179	40.00	ug/mL	-0.00
75)	CI75 Perylene-d12	17.69	264	65235	40.00	ug/mL	-0.00

System Monitoring Compounds

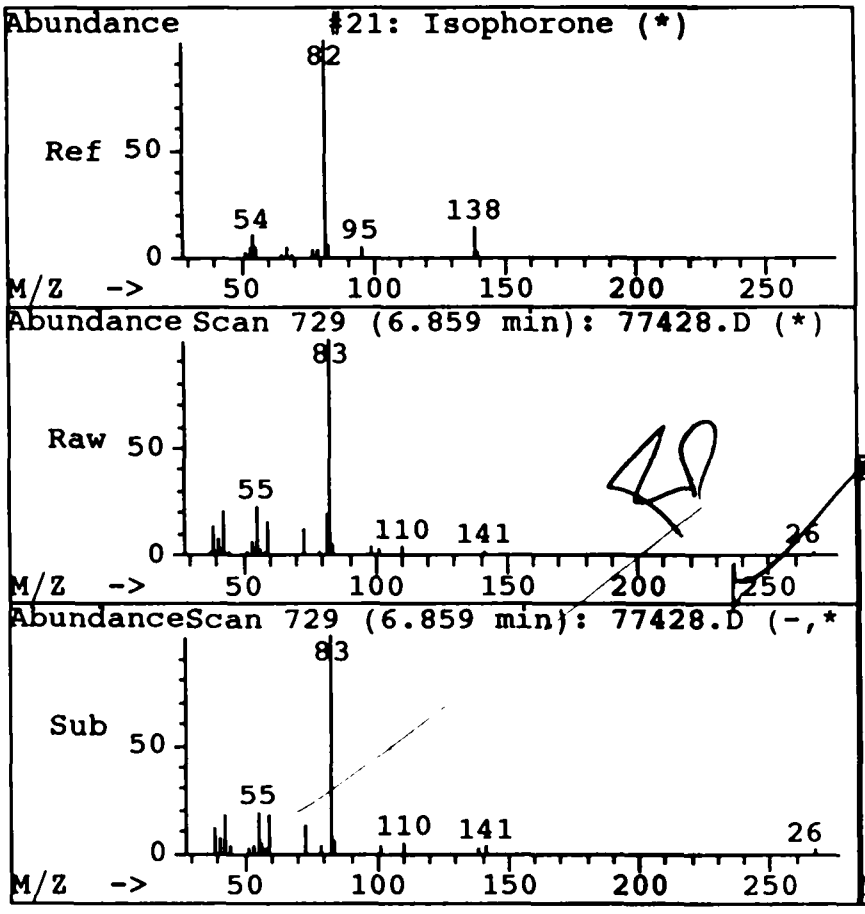
							%Recovery
1)	CS50 2-Fluorophenol	1.95	112	149468	98.49	ug/mL	65.66%
2)	CS45 Phenol-d5	5.38	99	213670	89.88	ug/mL	59.92%
3)	CS70 2-Chlorophenol-d4	5.38	132	198106	98.77	ug/mL	65.84%
10)	CS75 1,2-Dichlorobenzene-d	5.90	152	98818	73.04	ug/mL	73.04%
17)	CS20 Nitrobenzene-d5	6.41	82	162376	71.76	ug/mL	71.76%
34)	CS25 2-Fluorobiphenyl	8.45	172	233082	78.07	ug/mL	78.07%
53)	CS55 2,4,6-Tribromophenol	10.44	330	24794	75.98	ug/mL	50.65%
64)	CS30 Terphenyl-d14	13.95	244	142708	89.30	ug/mL	89.30%

Target Compounds

							ISTD#
19)	C415 ~~Isophorone~~	~~6.86~~	82	13614	3.83	ug/mL	002#
70)	C745 bis(2-Ethylhexyl)phth	15.80	149	55282	30.02	ug/mL	005

FP = FALSE POSITIVE

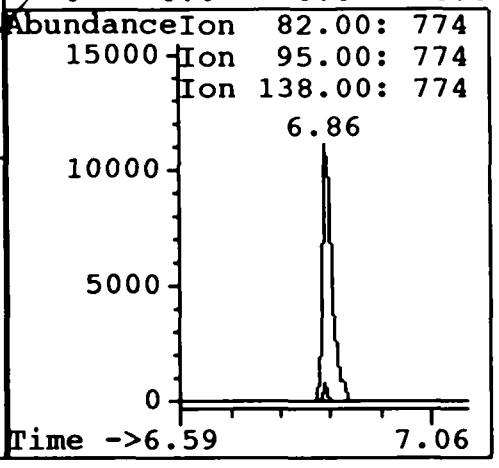
(#) = qualifier out of range

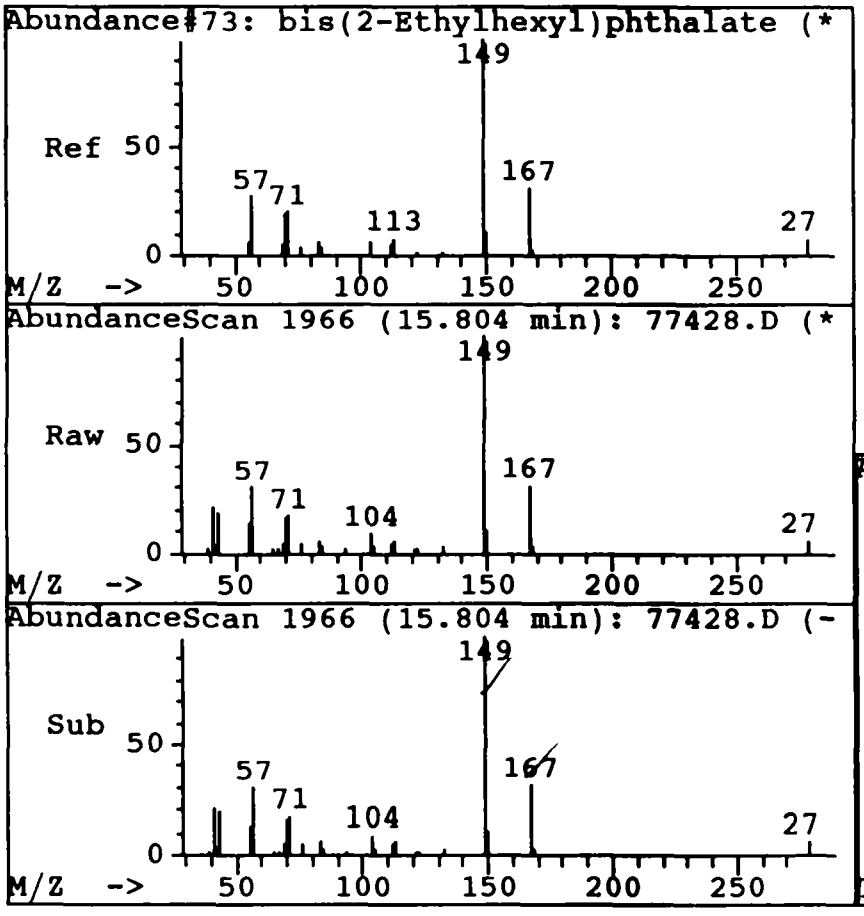


#19 Inst: HP6
C415 Isophorone **000419**
Concen: 3.83 ug/mL
RT: 6.86 min Scan# 729
Delta R.T. 0.17 min
Lab File: 77428.D
Acq: 5 Apr 96 00:57
FER98

Tgt Ion: 82 Area: 13614

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	2.6	0.0	35.2
0	0.0	0.0	0.0

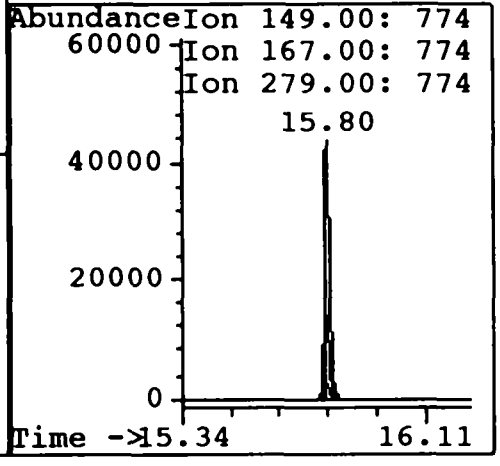




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 30.02 ug/mL
RT: 15.80 min Scan# 1966
Delta R.T. -0.00 min
Lab File: 77428.D
Acq: 5 Apr 96 00:57
FER98

Tgt Ion: 149 Area: 55282

Ion	Ratio	Lower	Upper
149	100		
167	28.6	13.5	53.5
279	5.1	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 00:57

000420

Data File: C:\CHEMPC\DATA\040496\77428.D

Name: FER98 EXT033096

Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

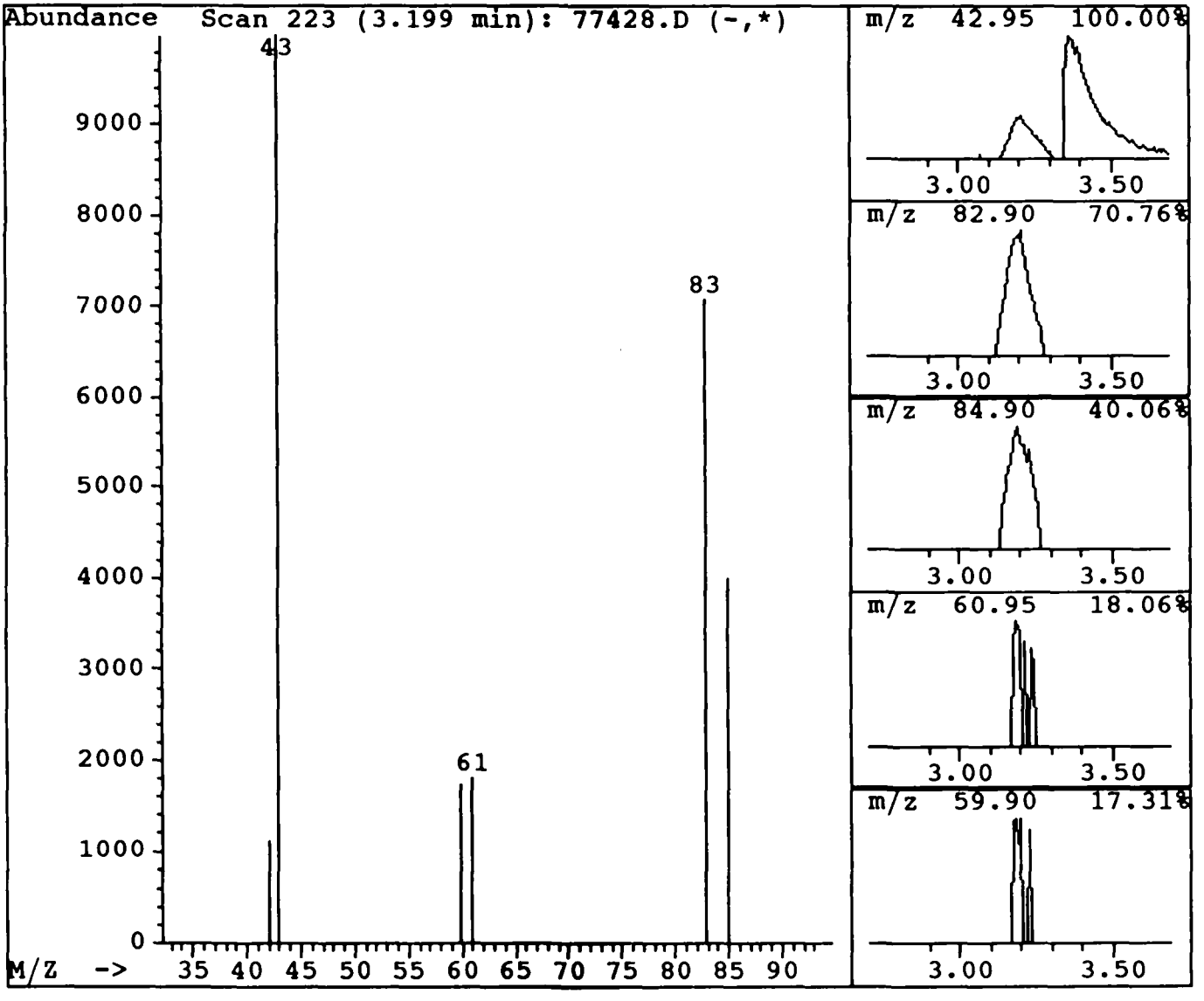
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.20	6.59 ug/mL	69829	CI30 1,4-Dichlorobenzene-	423926

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

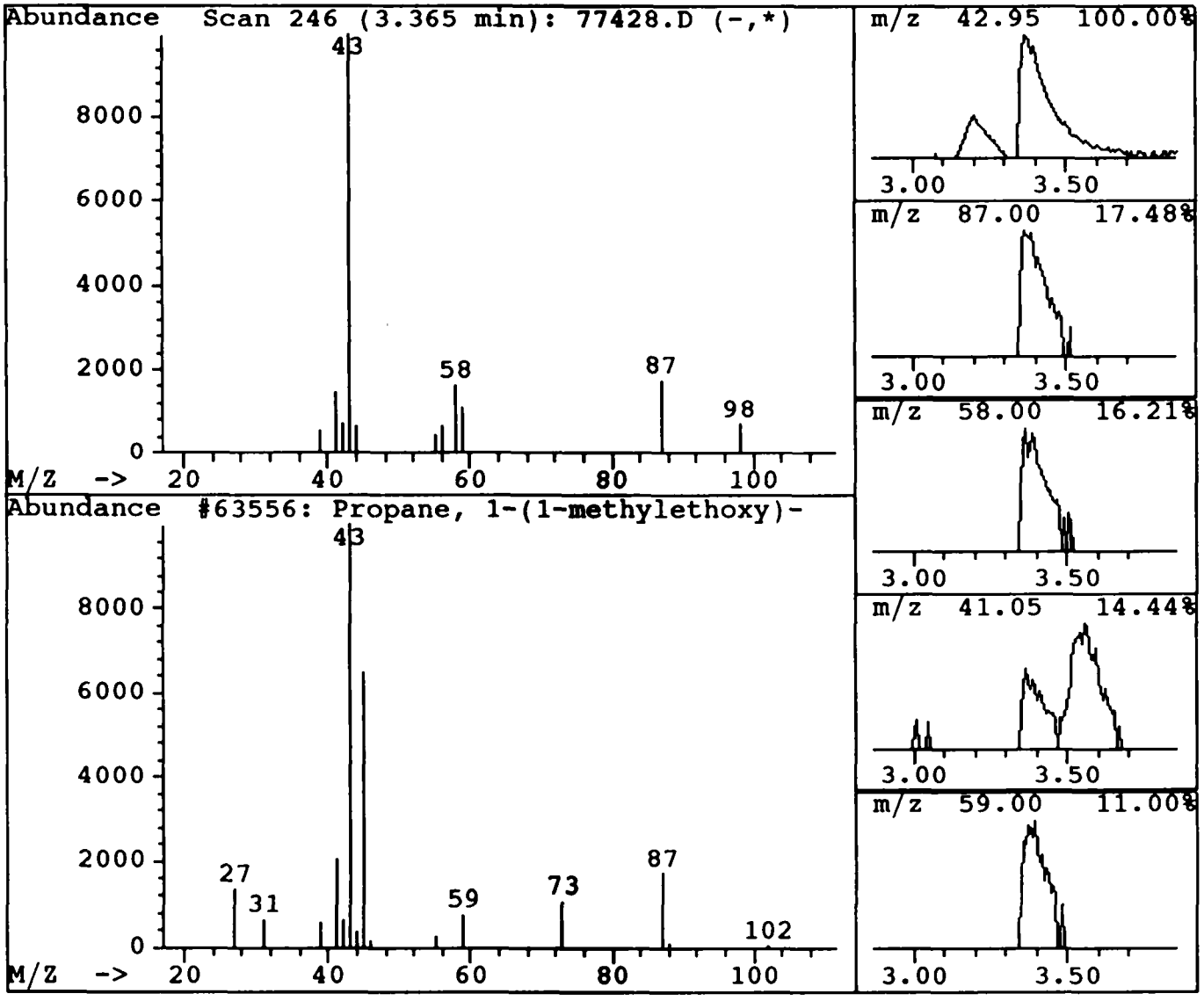
000421

Operator ID: AK Date Acquired: 5 Apr 96 00:57
Data File: C:\CHEMPC\DATA\040496\77428.D
Name: FER98 EXT033096
Misc: HP6*USEPA*15411.05*30.00gml*0.5ml*2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.36	23.50 ug/mL	249057	CI30 1,4-Dichlorobenzene-	423926

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	Propane, 1-(1-methylethoxy)-	63556	000627-08-7	36



Tentatively Identified Compound (LSC)

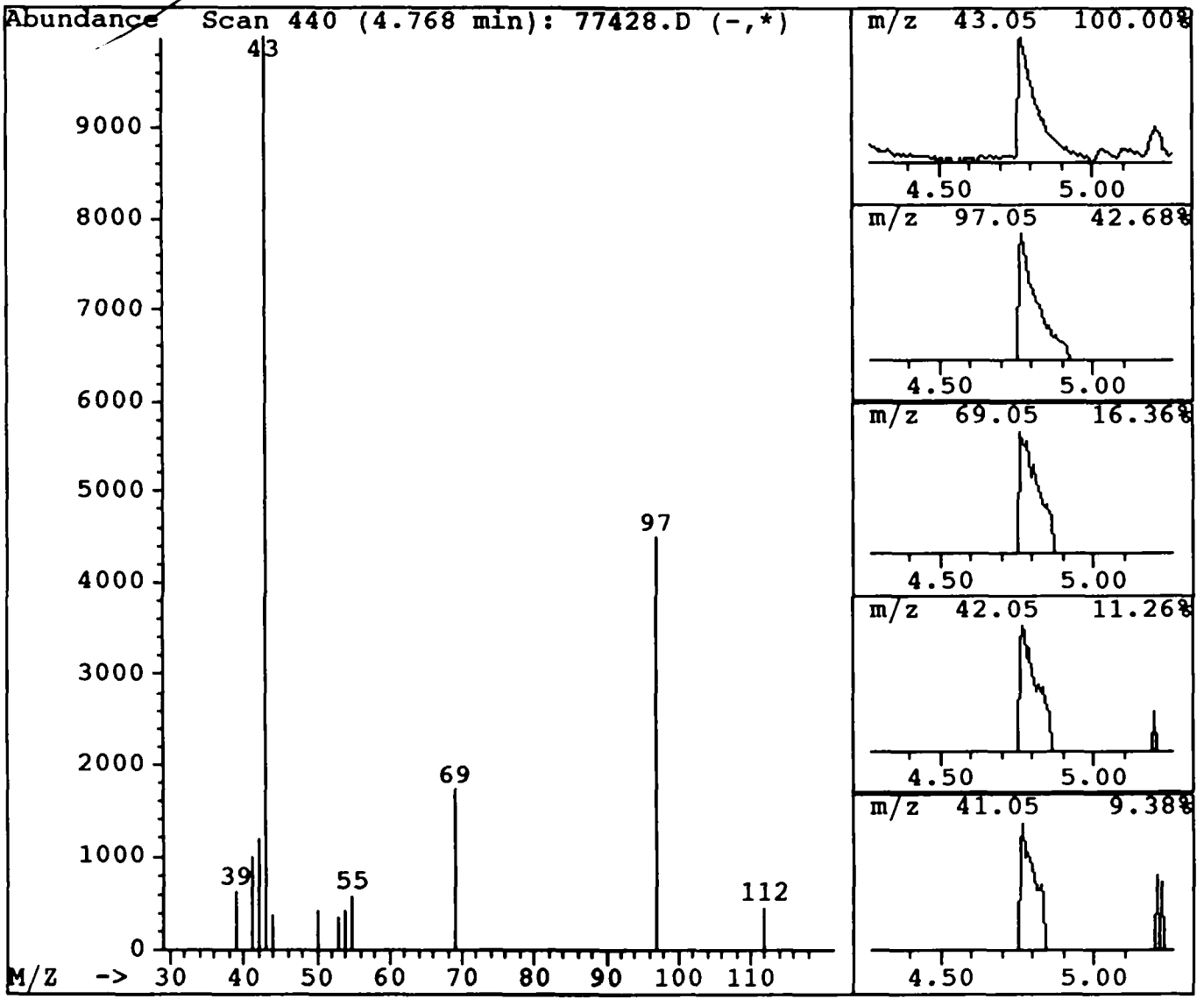
000422

Operator ID: AK Date Acquired: 5 Apr 96 00:57
Data File: C:\CHEMPC\DATA\040496\77428.D
Name: FER98 EXT033096
Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	14.49 ug/mL	153527	CI30 1,4-Dichlorobenzene-	423926

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 00:57

000423

Data File: C:\CHEMPC\DATA\040496\77428.D

Name: FER98 EXT033096

Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

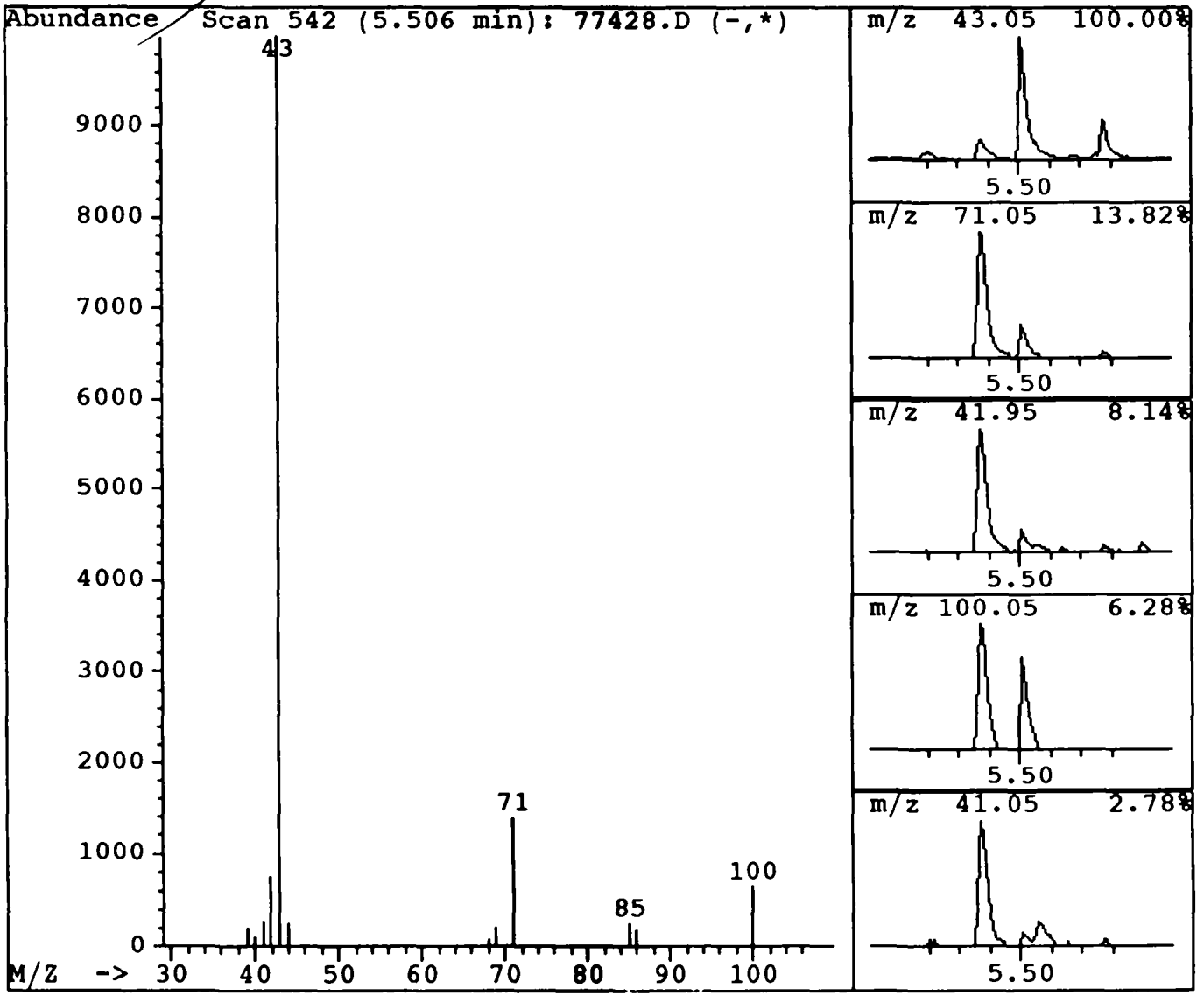
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	21.44 ug/mL	227214	CI30 1,4-Dichlorobenzene-	423926

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

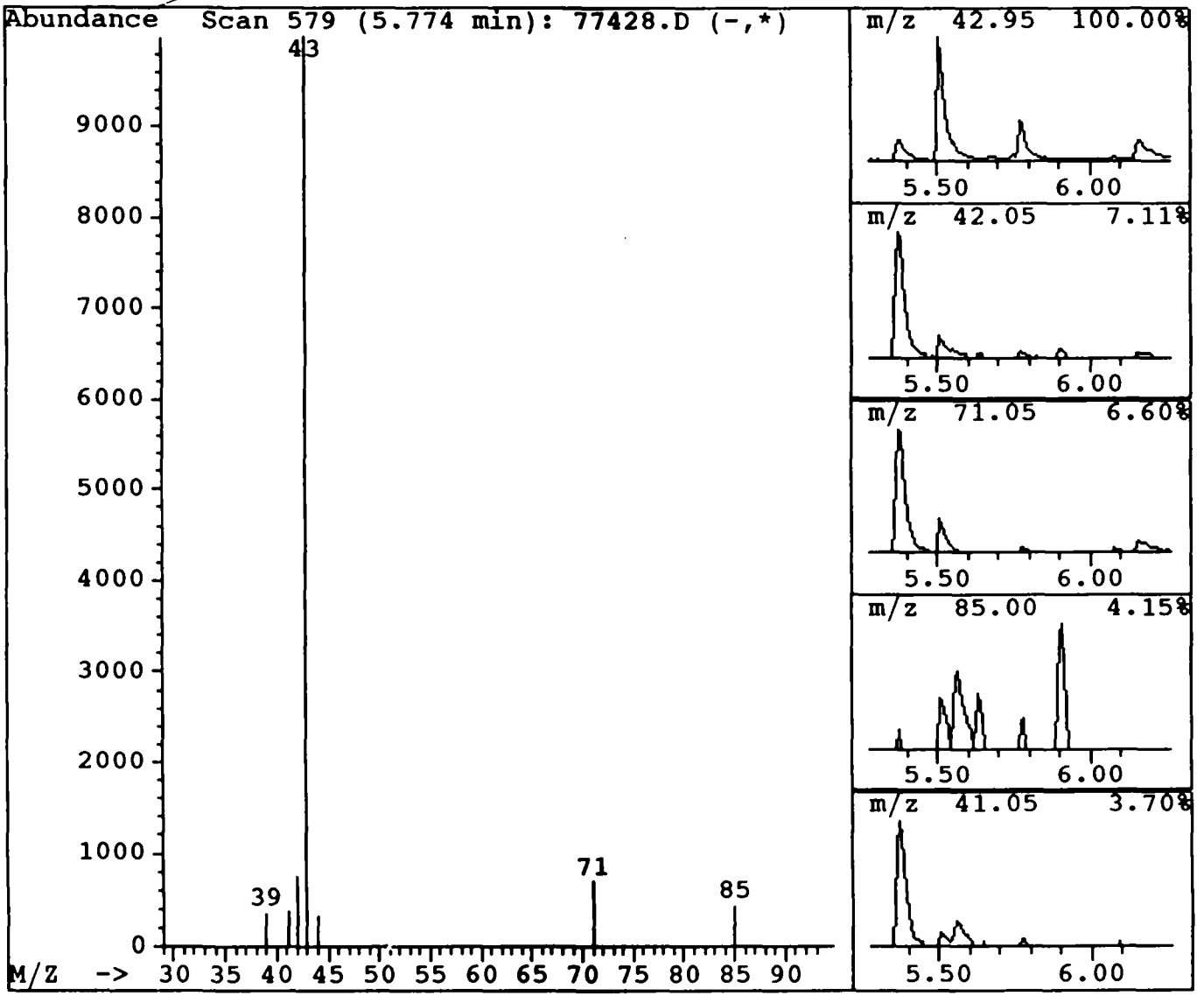
000424

Operator ID: AK Date Acquired: 5 Apr 96 00:57
Data File: C:\CHEMPC\DATA\040496\77428.D
Name: FER98 EXT033096
Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	5.83 ug/mL	61828	CI30 1,4-Dichlorobenzene-	423926

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 00:57

Data File: C:\CHEMPC\DATA\040496\77428.D

000425

Name: FER98 EXT033096

Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

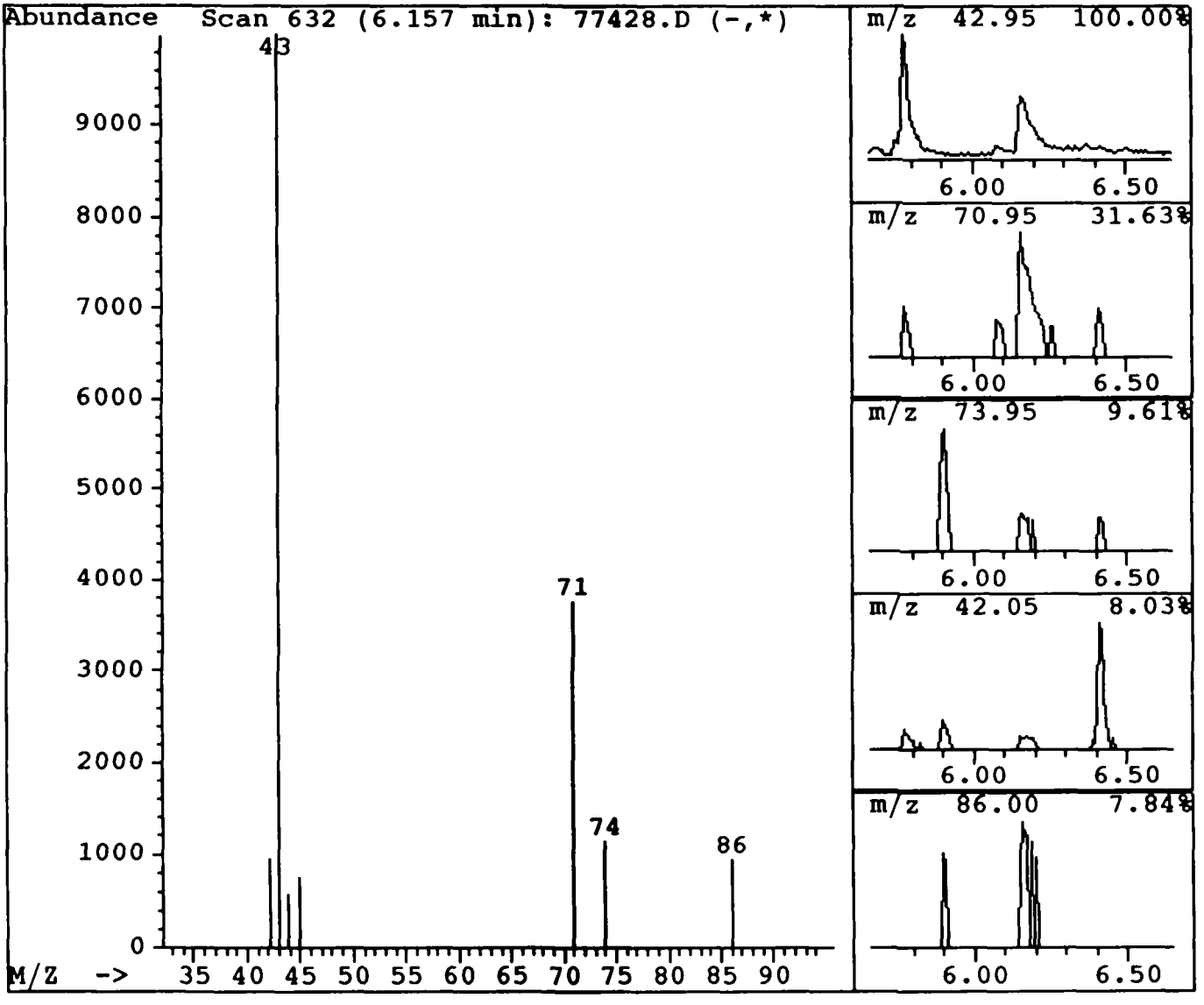
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.16	8.20 ug/mL	86904	CI30 1,4-Dichlorobenzene-	423926

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 00:57

000426

Data File: C:\CHEMPC\DATA\040496\77428.D

Name: FER98 EXT033096

Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

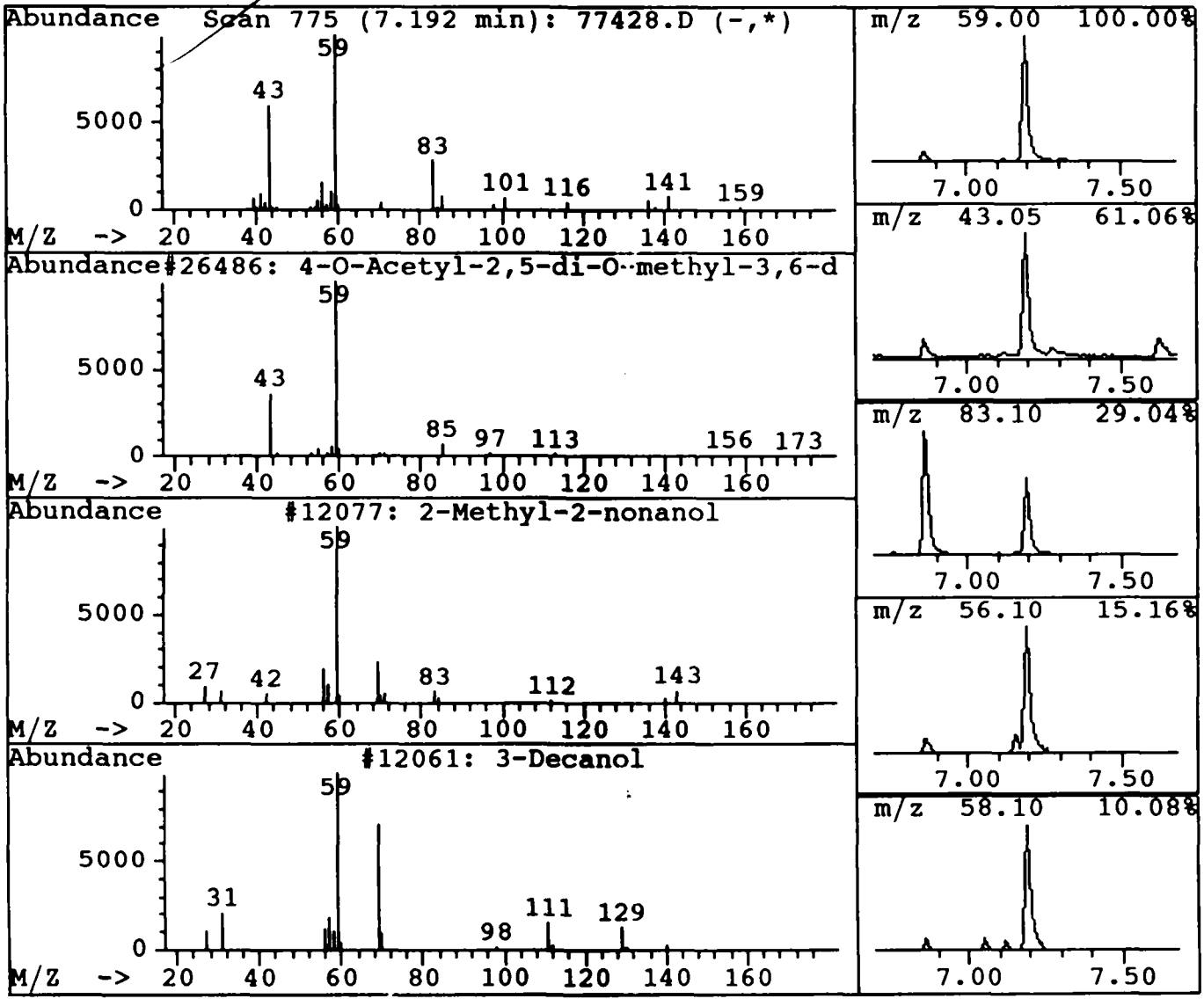
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.19	40.00 ug/mL	961980	CI40 Naphthalene-d8	961980

Hit# of 12	Tentative ID	Ref#	CAS#	Qual
1	4-O-Acetyl-2,5-di-O-methyl-3,6-dide	26486	000000-00-0	40
2	2-Methyl-2-nonanol	12077	010297-57-1	33
3	3-Decanol	12061	001565-81-7	33
4	1,8-Nonanediol, 8-methyl-	16264	054725-73-4	33
5	Propane, 1-ethoxy-2-methyl-	1772	000627-02-1	28



Tentatively Identified Compound (LSC)

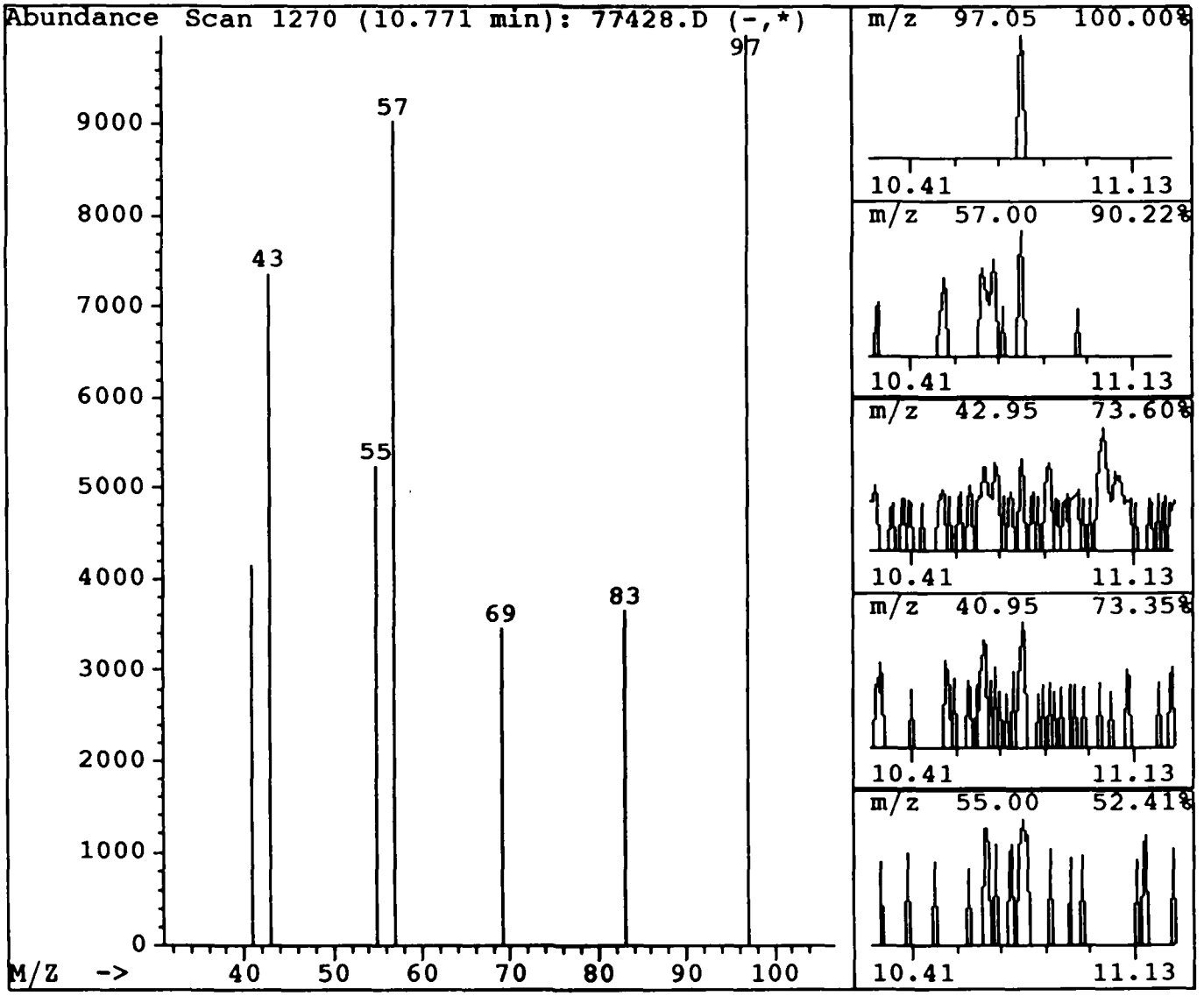
000427

Operator ID: AK Date Acquired: 5 Apr 96 00:57
Data File: C:\CHEMPC\DATA\040496\77428.D
Name: FER98 EXT033096
Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
10.77	4.44 ug/mL	29765	CI60 Phenanthrene-d10	268099

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



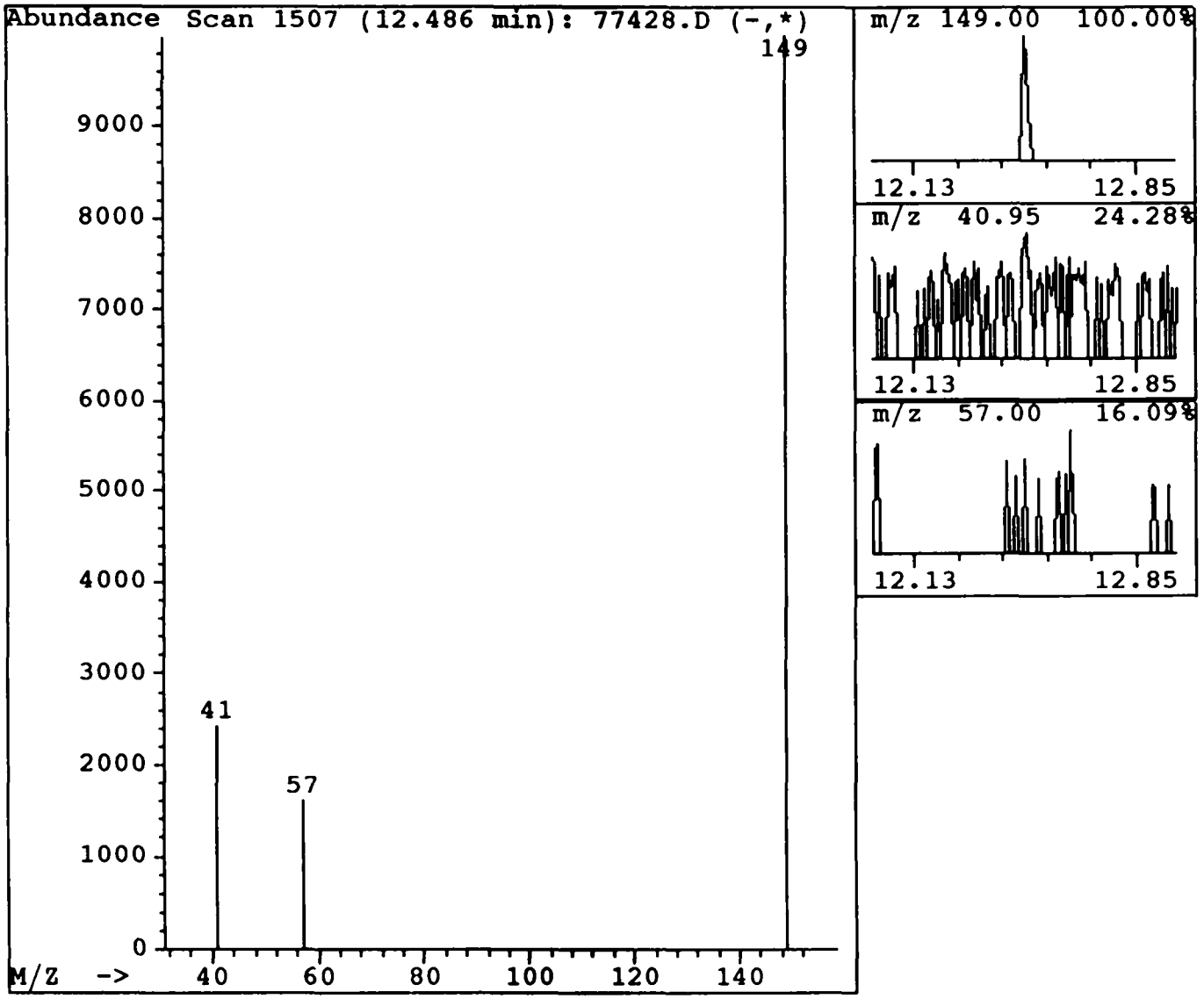
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 00:57 000428
Data File: C:\CHEMPC\DATA\040496\77428.D
Name: ?ER98 EXT033096
Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.49	9.11 ug/mL	61052	CI60 Phenanthrene-d10	268099

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

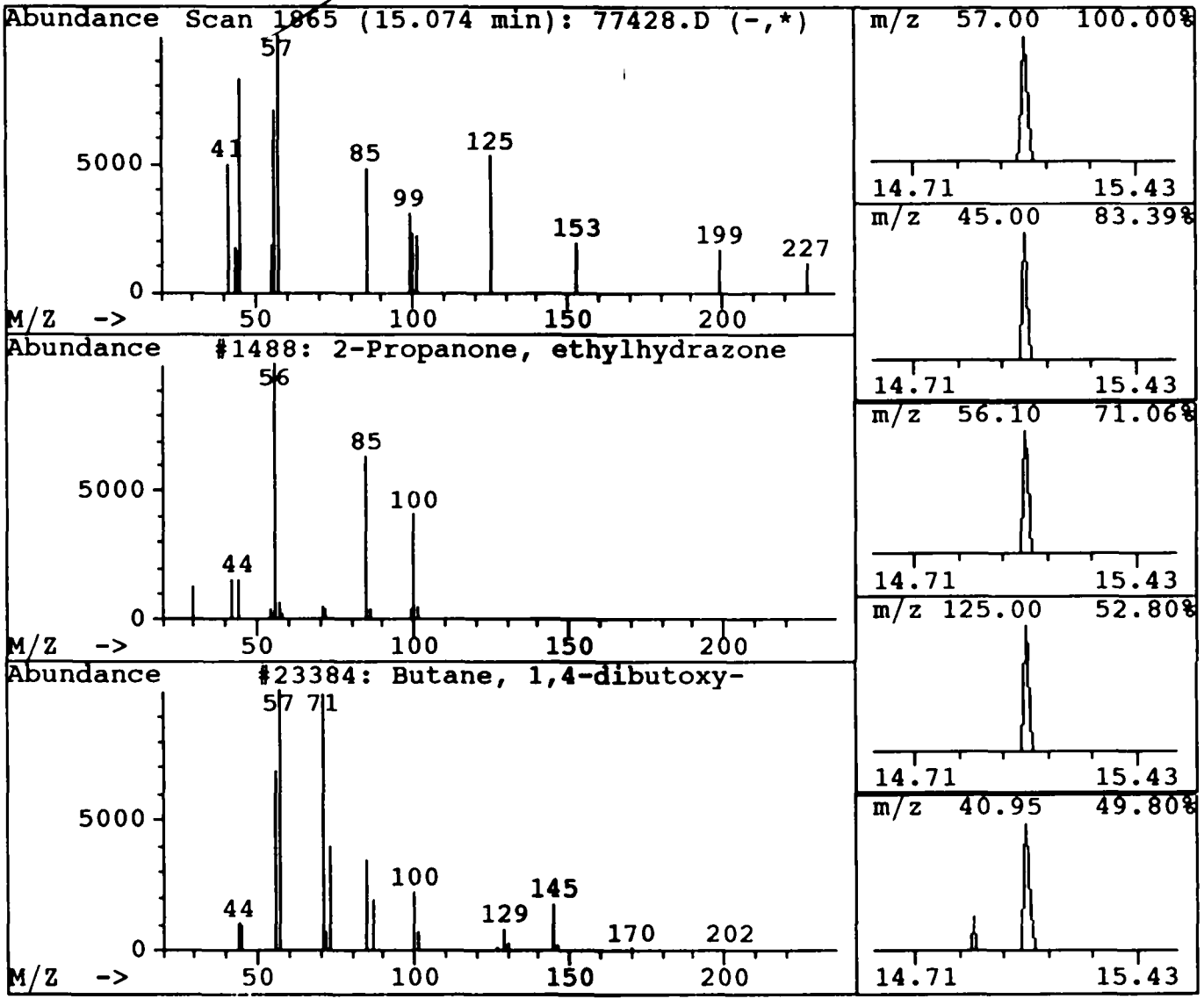
Operator ID: AK Date Acquired: 5 Apr 96 00:57
Data File: C:\CHEMPC\DATA\040496\77428.D
Name: FER98 EXT033096
Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

000429

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.07	10.89 ug/mL	41840	CI70 Chrysene-d12	153682

Hit# of 2	Tentative ID	Ref#	CAS#	Qual
1	2-Propanone, ethylhydrazone	1488	007422-99-3	22
2	Butane, 1,4-dibutoxy-	23384	004161-40-4	16



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 00:57

000430

Data File: C:\CHEMPC\DATA\040496\77428.D

Name: FER98 EXT033096

Misc: HP6*USEPA*15411.05*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

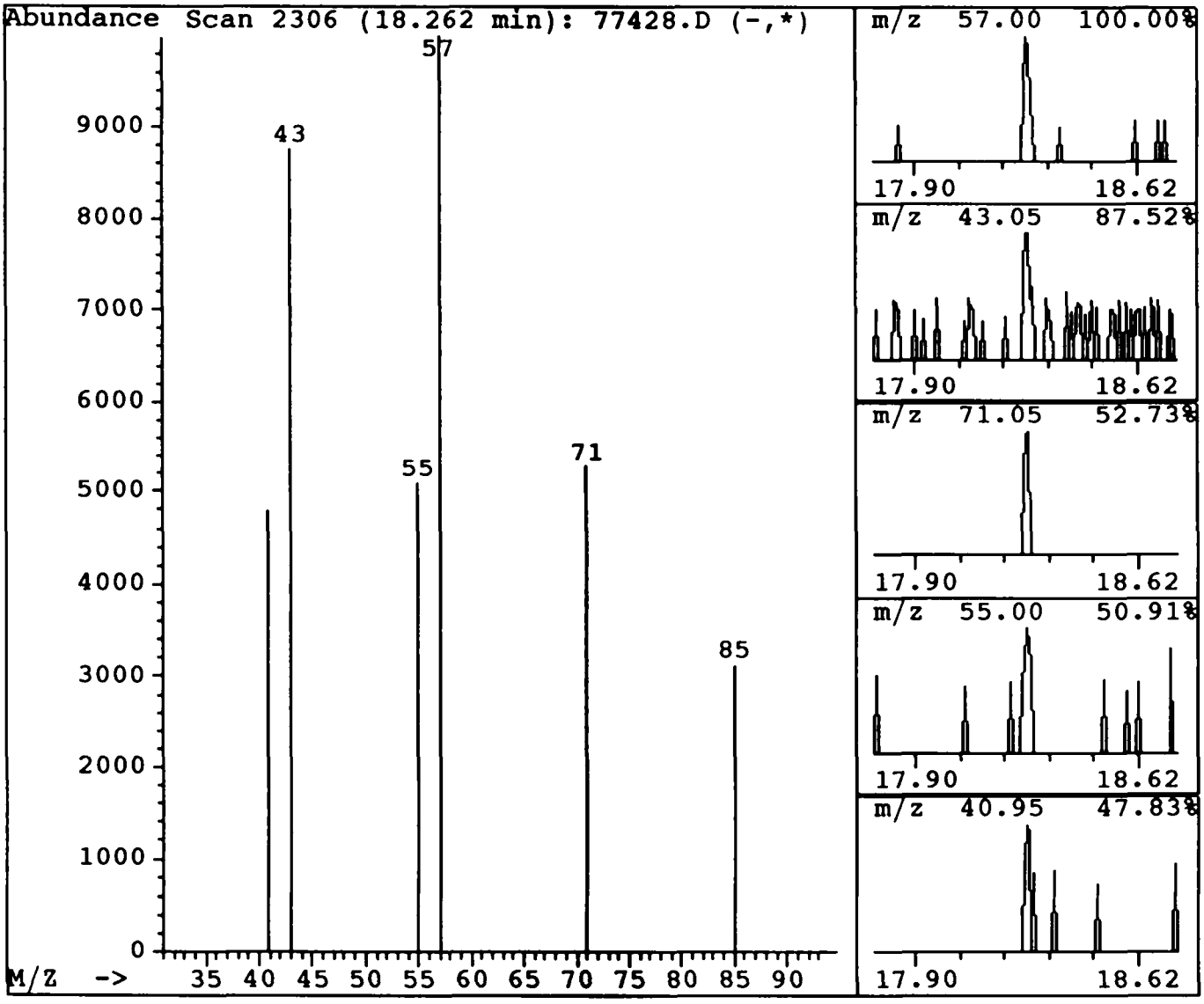
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.26	6.25 ug/mL	20923	CI75 Perylene-d12	134008

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



1F

EPA SAMPLE NO.

FER99

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541106

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77429

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/11/96

GPC Cleanup: (Y/N) Y pH: 8.0

Number TICs found: 7

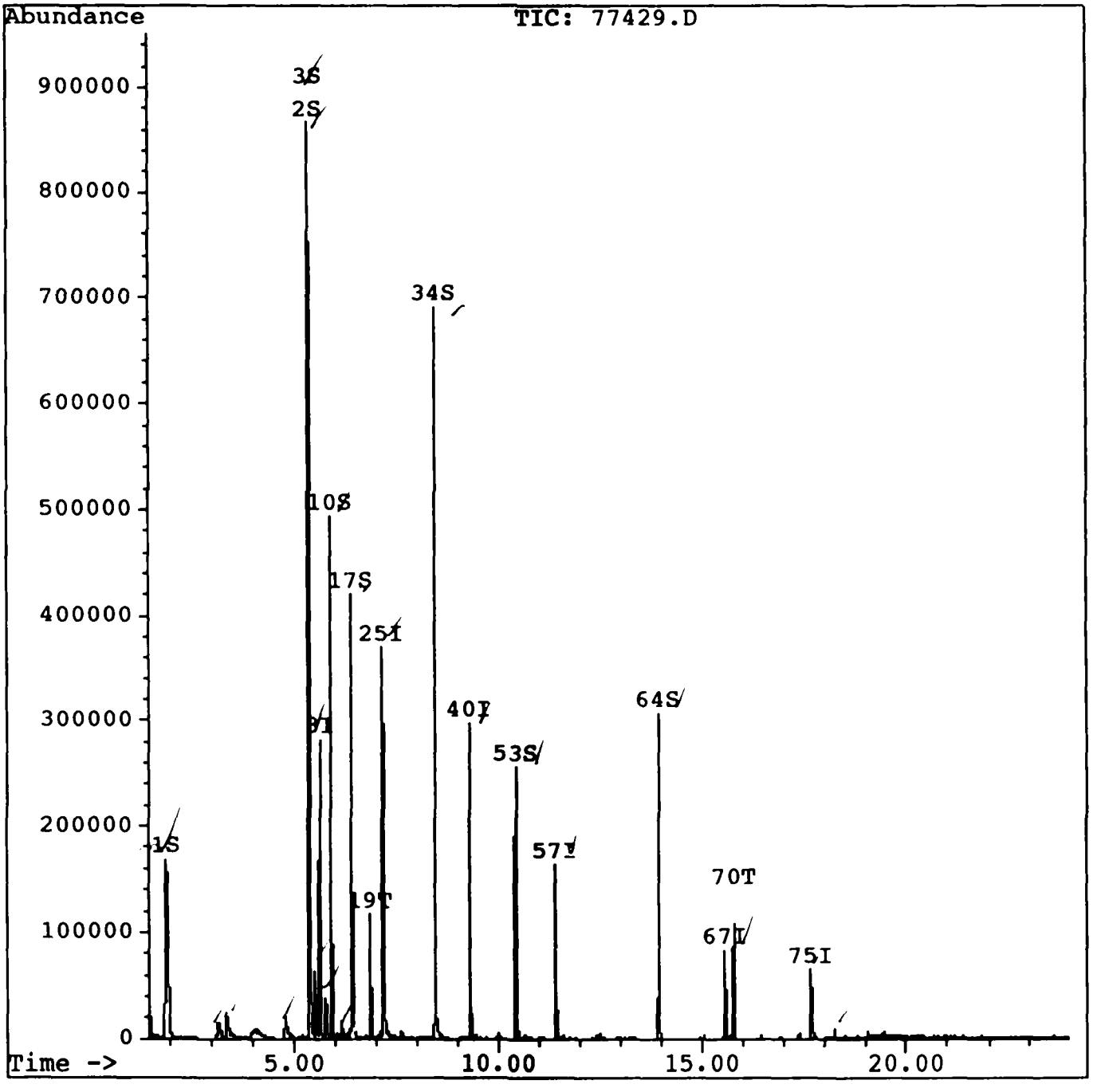
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.17	130	AJ
2.		Aldol condensation	3.35	230	ABJ
3.		Aldol condensation	4.78	150	ABJ
4.		Aldol condensation	5.52	200	ABJ
5.		Aldol condensation	5.77	120	AJ
6.		Unknown	6.15	96	J
7.		Unknown	18.27	91	J

QUANT REPORT

000434

Operator ID: AK Date Acquired: 5 Apr 96 01:27
Data File: C:\CHEMPC\DATA\040496\77429.D
Name: FER99 EXT033096
Misc: HP6*USEPA*15411.06*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 01:27

Data File: C:\CHEMPC\DATA\040496\77429.D

000435

Name: FER99 EXT033096

Misc: HP6*USEPA*15411.06*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

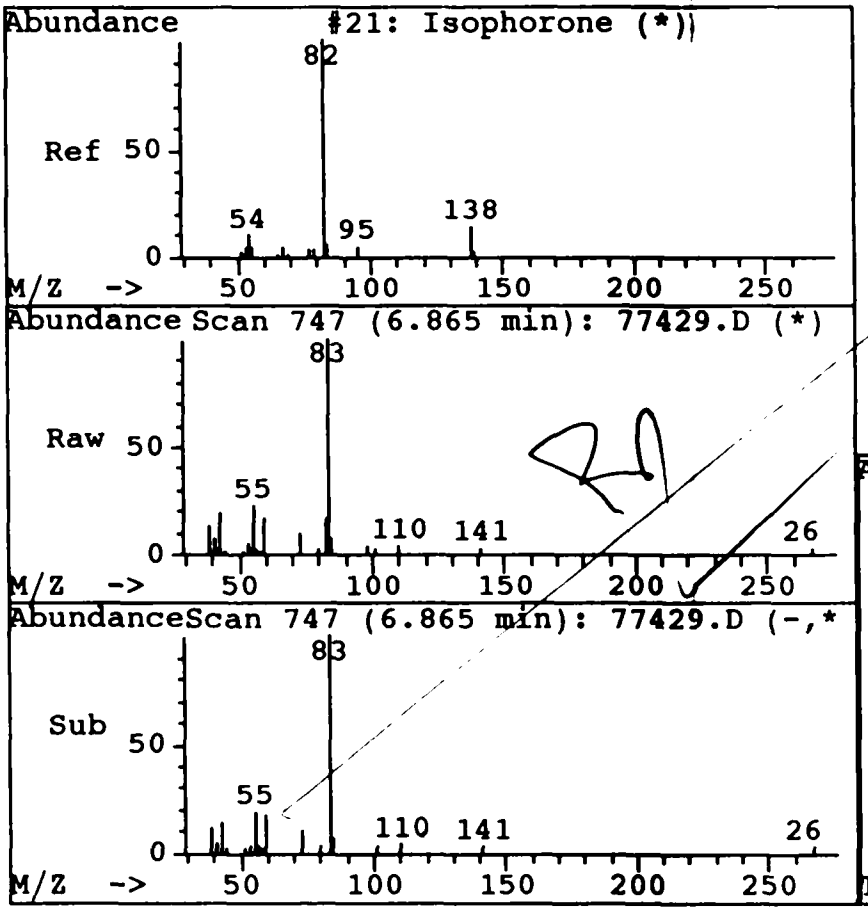
Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	76088	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.15	136	226571	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.30	164	99023	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.41	188	105478	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.58	240	68228	40.00	ug/mL	0.00
75) CI75 Perylene-d12	17.69	264	65697	40.00	ug/mL	-0.01
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.91	112	183411	103.89	ug/mL	69.26%
2) CS45 Phenol-d5	5.37	99	249412	90.18	ug/mL	60.12%
3) CS70 2-Chlorophenol-d4	5.37	132	244328	104.71	ug/mL	69.81%
10) CS75 1,2-Dichlorobenzene-d	5.90	152	106889	67.91	ug/mL	67.91%
17) CS20 Nitrobenzene-d5	6.41	82	176373	66.43	ug/mL	66.43%
34) CS25 2-Fluorobiphenyl	8.45	172	263365	75.97	ug/mL	75.97%
53) CS55 2,4,6-Tribromophenol	10.44	330	48576	127.86	ug/mL	85.24%
64) CS30 Terphenyl-d14	13.96	244	132561	82.89	ug/mL	82.89%
Target Compounds						ISTD#
19) C415 Isophorone	6.86	82	10654	2.55	ug/mL FP	002#
70) C745 bis(2-Ethylhexyl)phth	15.80	149	37131	20.15	ug/mL	005

FP=FA... ...VE

(#) = qualifier out of range



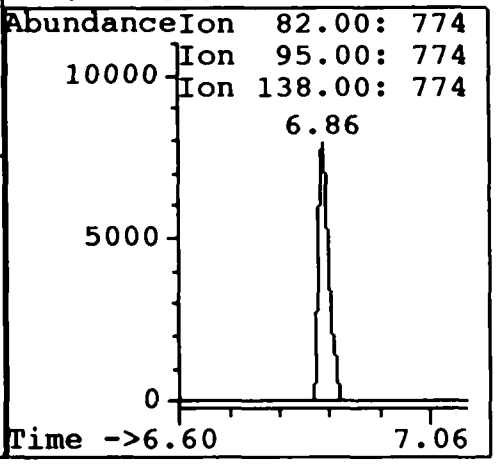
#19 Inst: HP6
C415 Isophorone

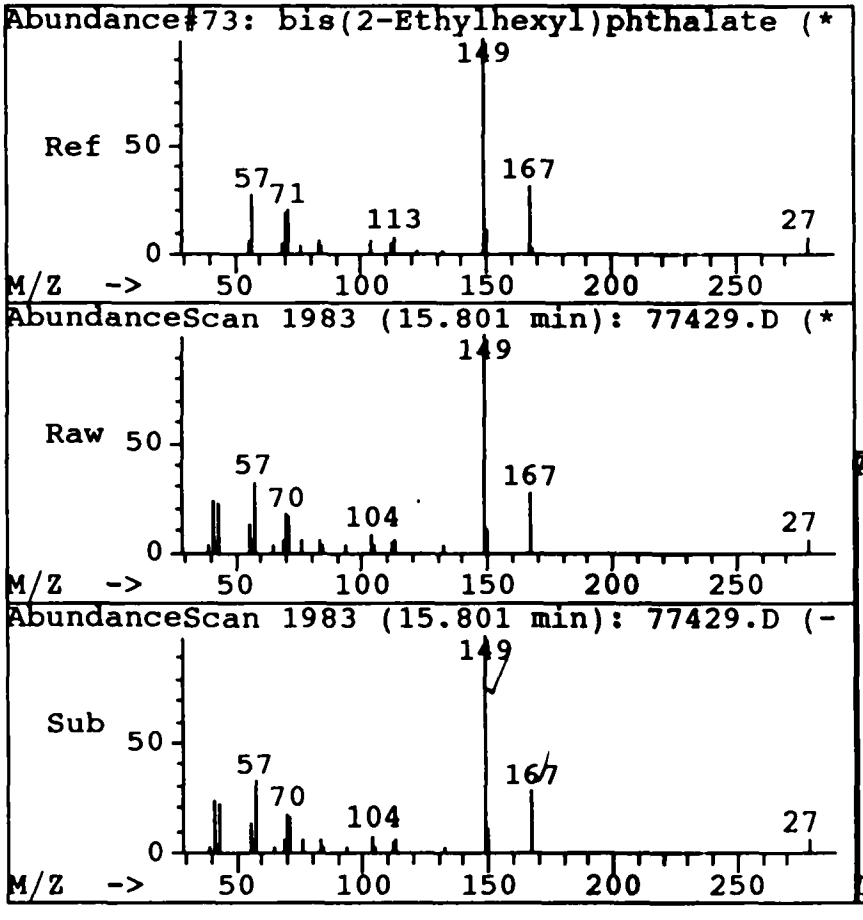
000436

Concen: 2.55 ug/mL
RT: 6.86 min Scan# 747
Delta R.T. 0.17 min
Lab File: 77429.D
Acq: 5 Apr 96 01:27
FER99

Tgt Ion: 82 Area: 10654

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	0.0	0.0	35.2
0	0.0	0.0	0.0

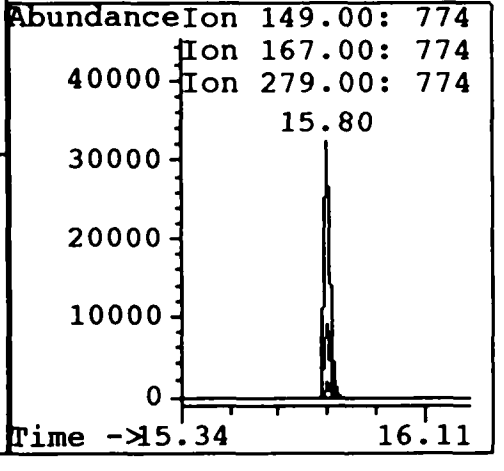




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 20.15 ug/mL
RT: 15.80 min Scan# 1983
Delta R.T. -0.01 min
Lab File: 77429.D
Acq: 5 Apr 96 01:27
FER99

Tgt Ion: 149 Area: 37131

Ion	Ratio	Lower	Upper
149	100		
167	28.4	13.5	53.5
279	3.9	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

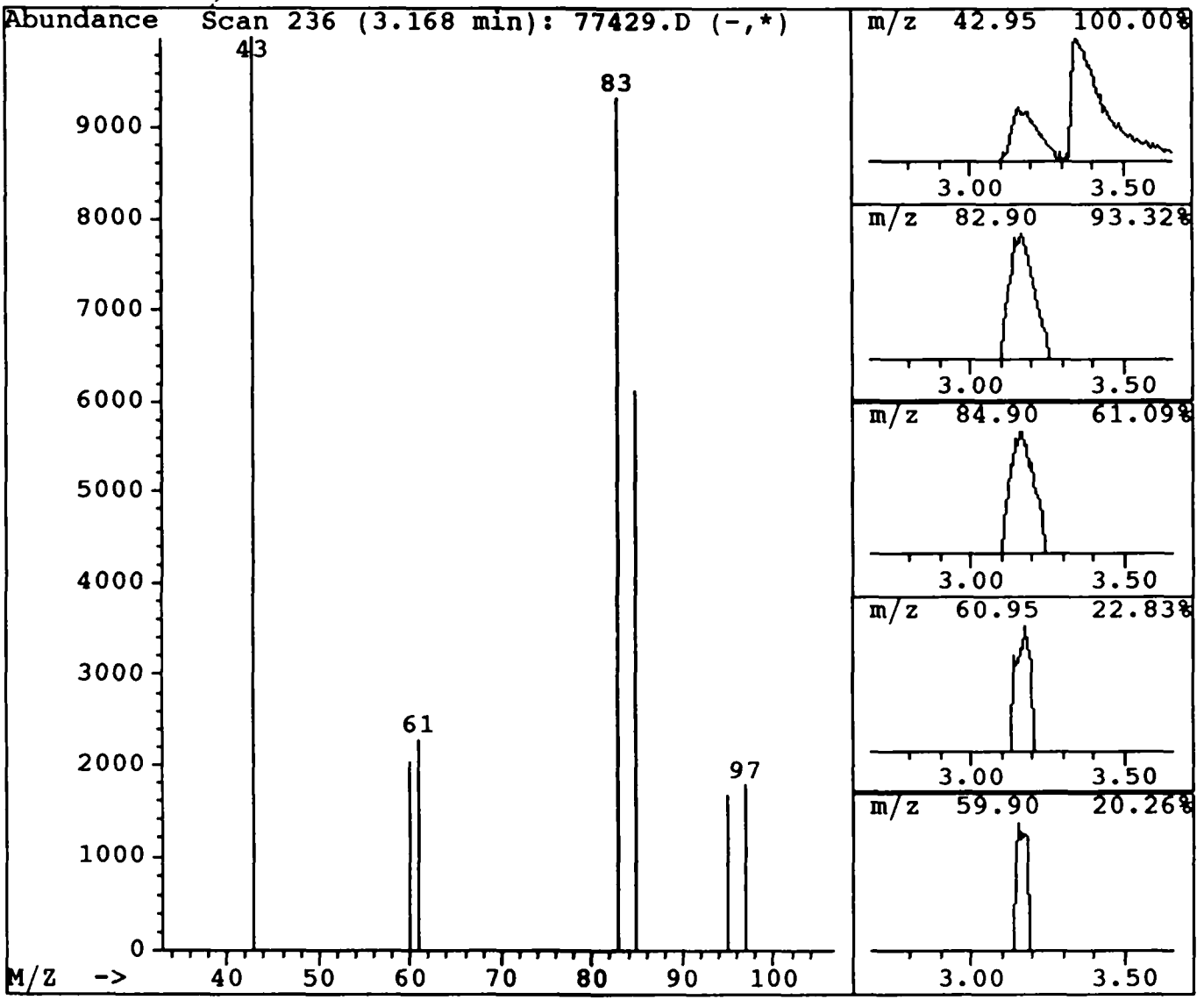
000437

Operator ID: AK Date Acquired: 5 Apr 96 01:27
Data File: C:\CHEMPC\DATA\040496\77429.D
Name: FER99 EXT033096
Misc: HP6*USEPA*15411.06*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.17	6.59 ug/mL	78266	CI30 1,4-Dichlorobenzene-	474703

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



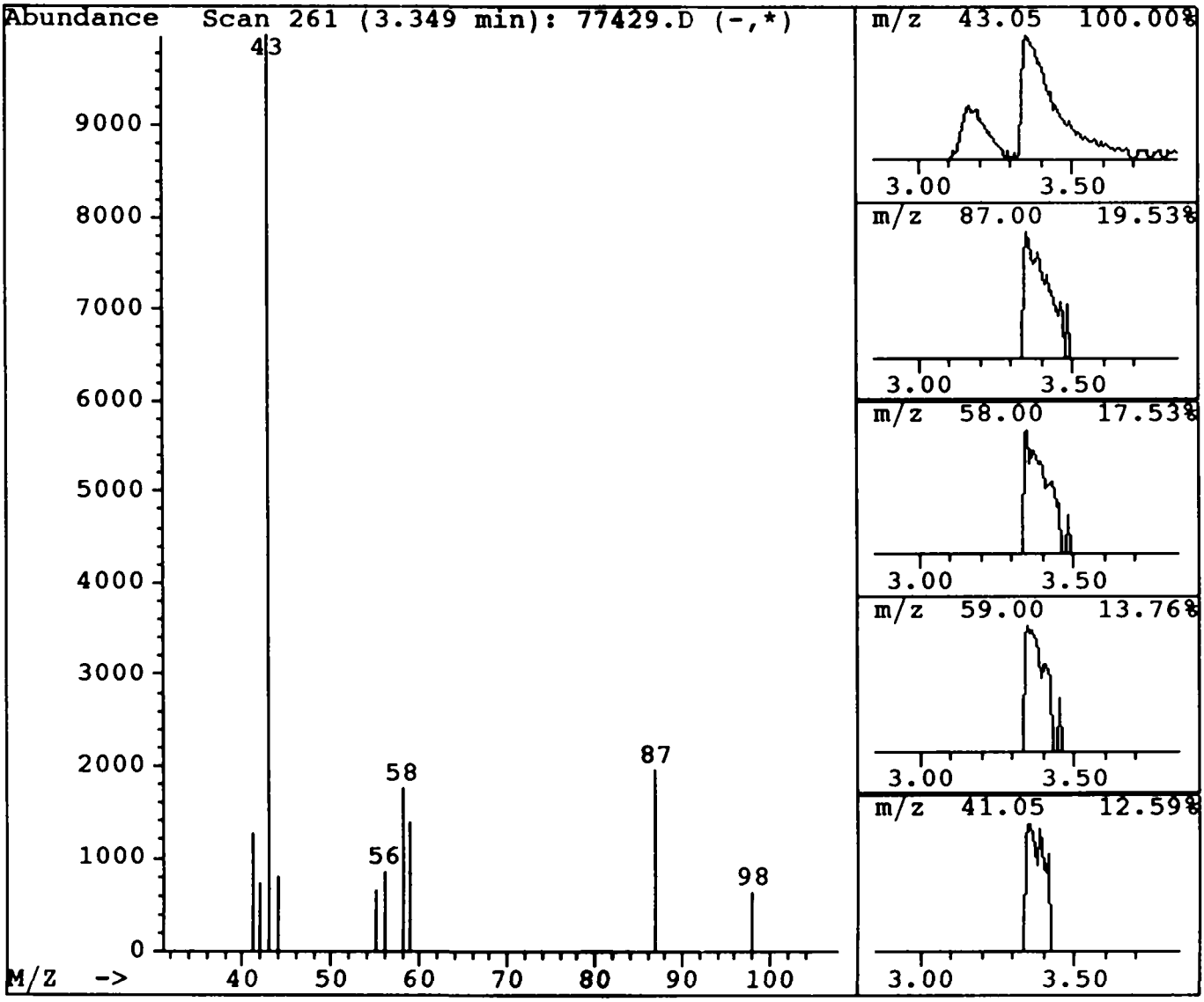
Tentatively Identified Compound (LSC) 000438

Operator ID: AK Date Acquired: 5 Apr 96 01:27
Data File: C:\CHEMPC\DATA\040496\77429.D
Name: FER99 EXT033096
Misc: HP6*USEPA*15411.06*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.35	11.69 ug/mL	138739	CI30 1,4-Dichlorobenzene-	474703

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

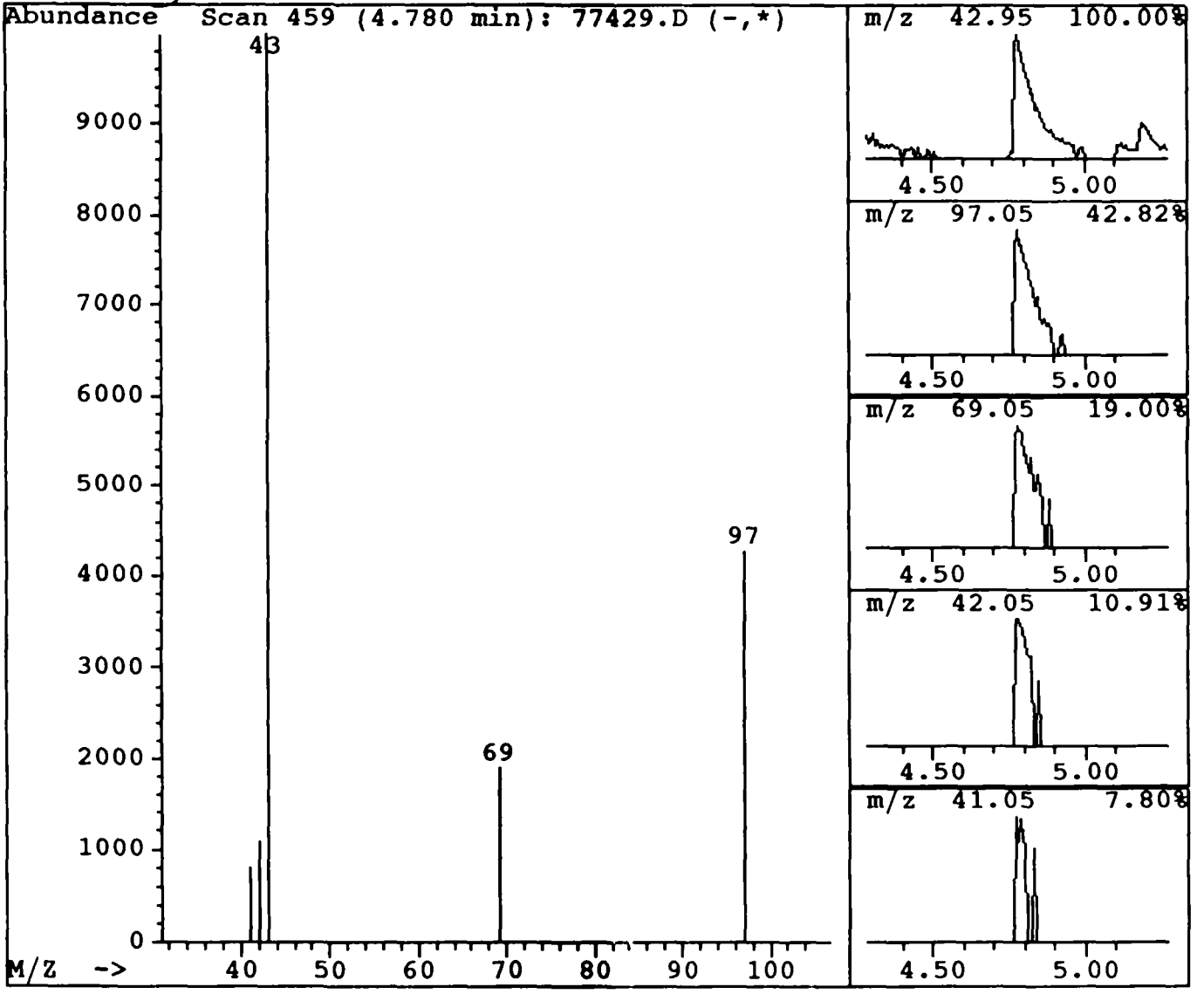
000439

Operator ID: AK Date Acquired: 5 Apr 96 01:27
Data File: C:\CHEMPC\DATA\040496\77429.D
Name: FER99 EXT033096
Misc: HP6*USEPA*15411.06*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.78	7.65 ug/mL	90833	CI30 1,4-Dichlorobenzene-	474703

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

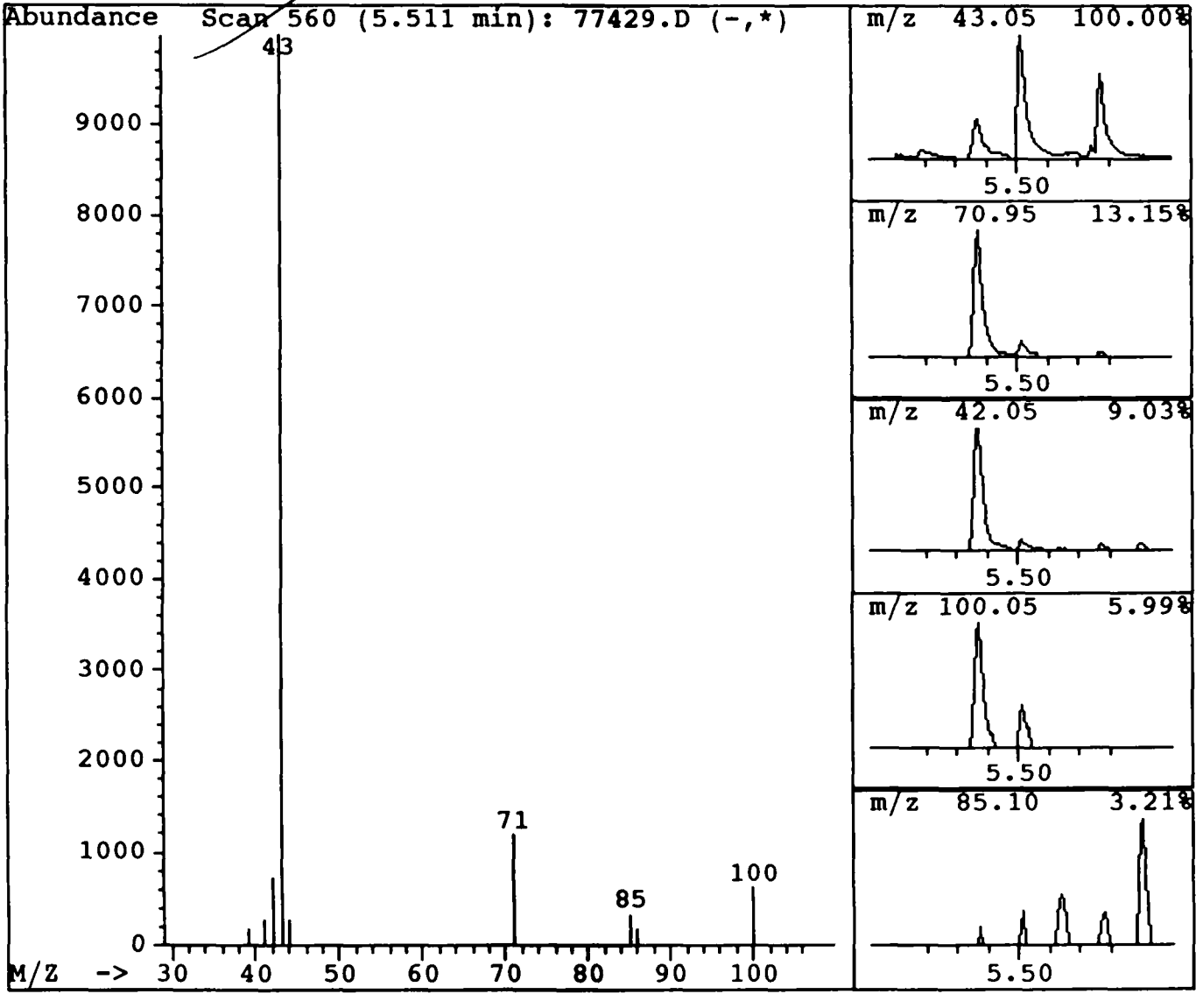
000440

Operator ID: AK Date Acquired: 5 Apr 96 01:27
Data File: C:\CHEMPC\DATA\040496\77429.D
Name: FER99 EXT033096
Misc: HP6*USEPA*15411.06*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	10.42 ug/mL	123699	CI30 1,4-Dichlorobenzene-	474703

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



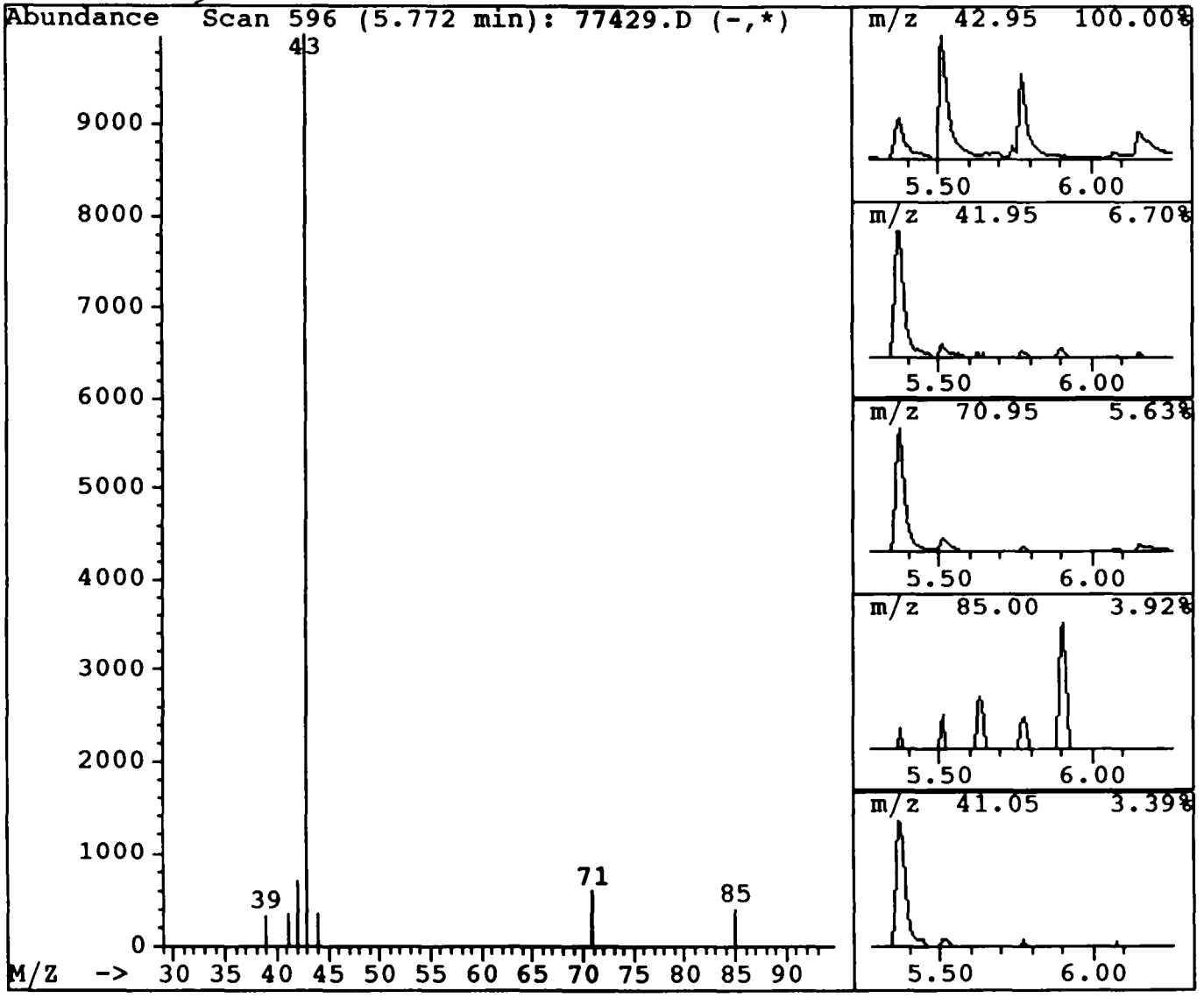
Tentatively Identified Compound (LSC) 000441

Operator ID: AK Date Acquired: 5 Apr 96 01:27
Data File: C:\CHEMPC\DATA\040496\77429.D
Name: FER99 EXT033096
Misc: HP6*USEPA*15411.06*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	6.24 ug/mL	74004	0130 1,4-Dichlorobenzene-	474703

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1 Unknown		0	000000-00-0	0



Tentatively Identified Compound (LSC)

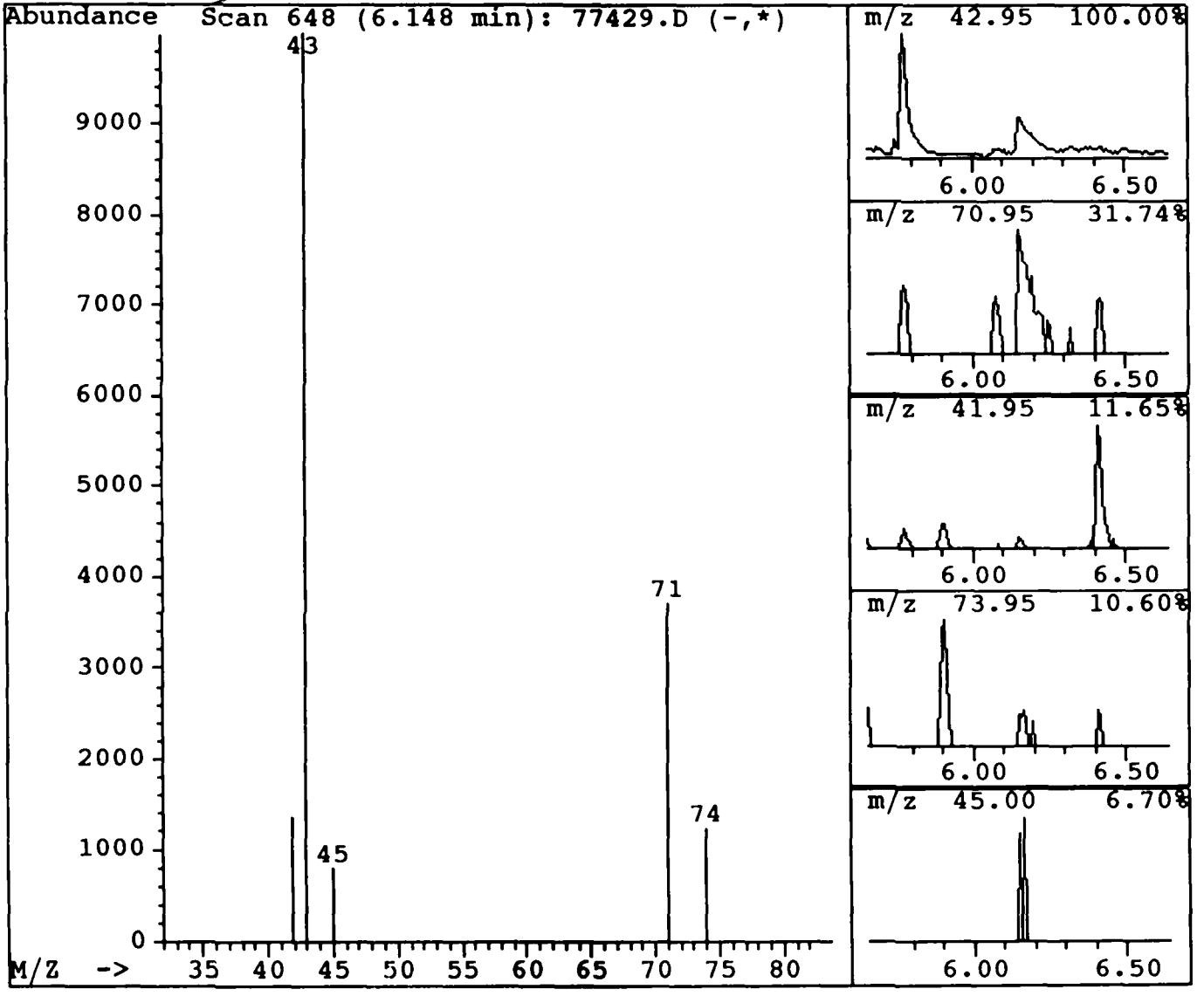
000442

Operator ID: AK Date Acquired: 5 Apr 96 01:27
Data File: C:\CHEMPC\DATA\040496\77429.D
Name: FER99 EXT033096
Misc: HP6*USEPA*15411.06*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.15	4.95 ug/mL	58773	C130 1,4-Dichlorobenzene-	474703

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 5 Apr 96 01:27

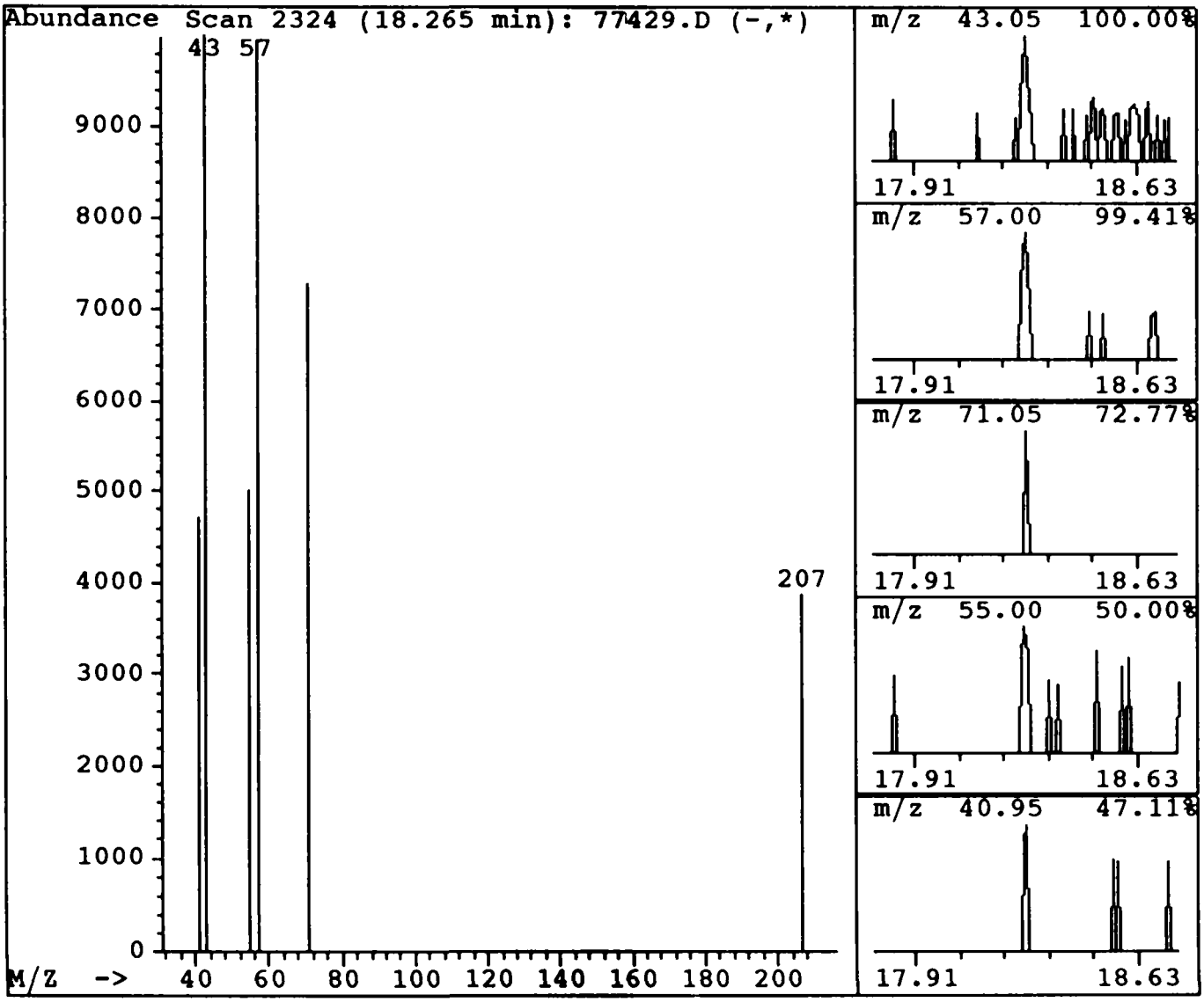
000443

Data File: C:\CHEMPC\DATA\040496\77429.D
Name: FER99 EXT033096
Misc: HP6*USEPA*15411.06*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.27	4.71 ug/mL	15556	CI75 Perylene-d12	132018

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000446 EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

FES00

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541101

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77424

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 25 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ 0.5 4/4/96

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 24 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.20	200	AJ
2.		Aldol condensation	3.38	430	ABJ
3.		Aldol condensation	4.75	540	ABJ
4.		Aldol condensation	5.52	290	ABJ
5.		Aldol condensation	5.77	260	AJ
6.		Unknown	6.13	560	J
7.		Unknown	7.20	890	J
8.		Unknown	11.62	220	J
9.		Unknown	11.67	95	J
10.		Unknown	11.90	140	J
11.	57-10-3	Hexadecanoic acid	12.42	430	JN
12.		Unknown	15.07	100	J
13.		Unknown	15.13	160	J
14.		Unknown	16.35	350	J
15.		Unknown	16.47	580	J
16.		Unknown	17.13	200	J
17.		Unknown	19.20	2300	J
18.		Unknown	19.47	15000	J
19.		Unknown	19.80	2400	J
20.		Unknown	19.92	5300	J
21.		Unknown	20.05	820	J
22.		Unknown	20.15	6000	J
23.		Unknown	20.53	2700	J
24.		Unknown	20.70	8500	J

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 22:55

000447

Data File: C:\CHEMPC\DATA\040496\77424.D

Name: FESOO EXT033096

Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.64	152	67357	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.16	136	203341	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.30	164	90466	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.42	188	100382	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.57	240	64409	40.00	ug/mL	-0.00
75) CI75 Perylene-d12	17.69	264	60266	40.00	ug/mL	-0.01

System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.98	112	185218	118.51	ug/mL	79.01%
2) CS45 Phenol-d5	5.38	99	241224	98.53	ug/mL	65.69%
3) CS70 2-Chlorophenol-d4	5.37	132	228462	110.60	ug/mL	73.73%
10) CS75 1,2-Dichlorobenzene-d	5.90	152	98984	71.04	ug/mL	71.04%
17) CS20 Nitrobenzene-d5	6.42	82	165353	69.40	ug/mL	69.40%
34) CS25 2-Fluorobiphenyl	8.45	172	245468	77.51	ug/mL	77.51%
53) CS55 2,4,6-Tribromophenol	10.43	330	48074	132.96	ug/mL	88.64%
64) CS30 Terphenyl-d14	13.95	244	139777	92.58	ug/mL	92.58%

Target Compounds						ISTD#
19) C415 ~~Isophorone~~	~~6.86~~	82	15560	4.15	ug/mL	002#
70) C745 bis(2-Ethylhexyl)phth	15.80	149	57194	32.88	ug/mL	005

FALSE POSITIVE

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 22:55

000448

Data File: C:\CHEMPC\DATA\040496\77424.D

Name: FESOO EXT033096

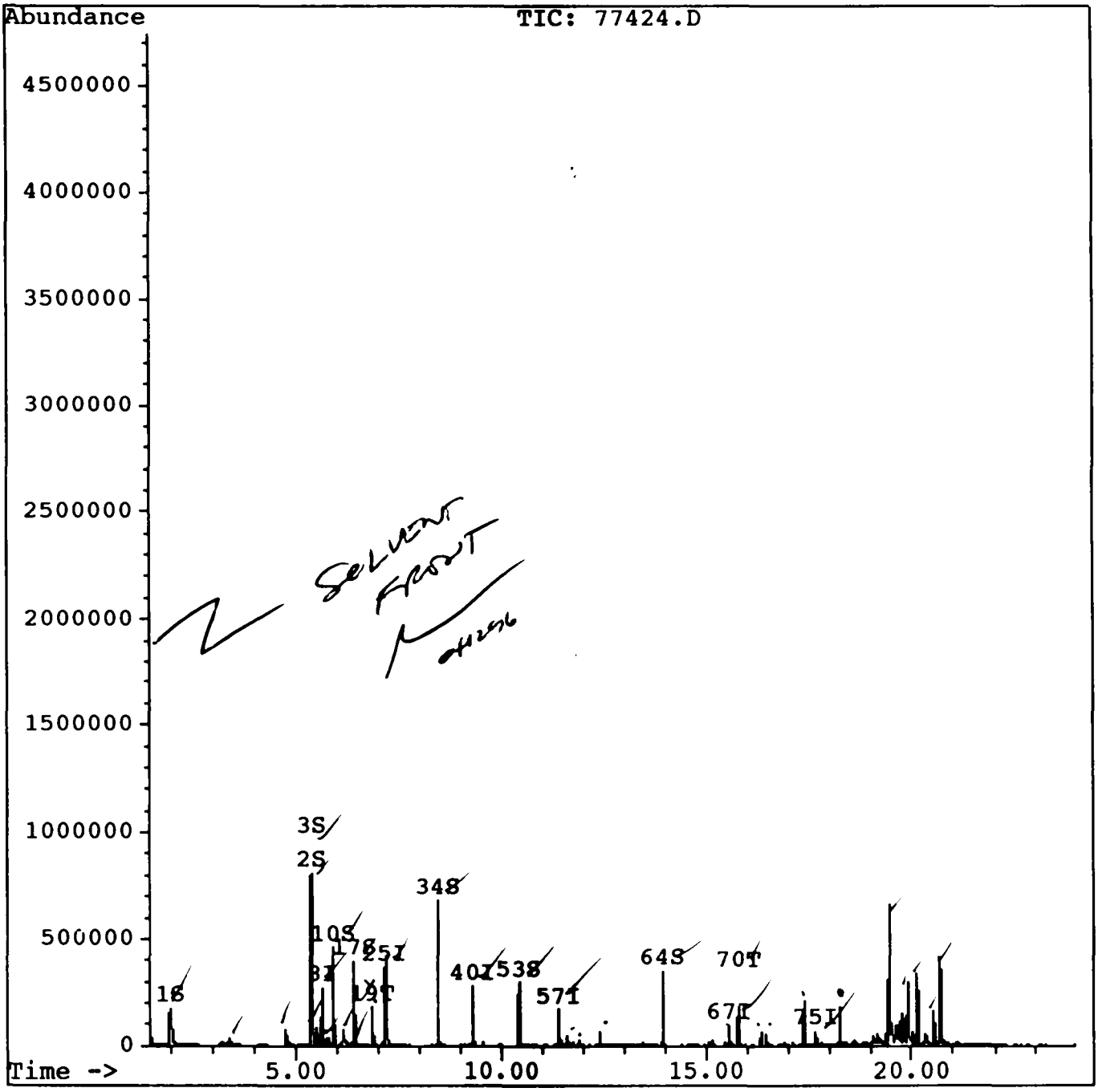
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

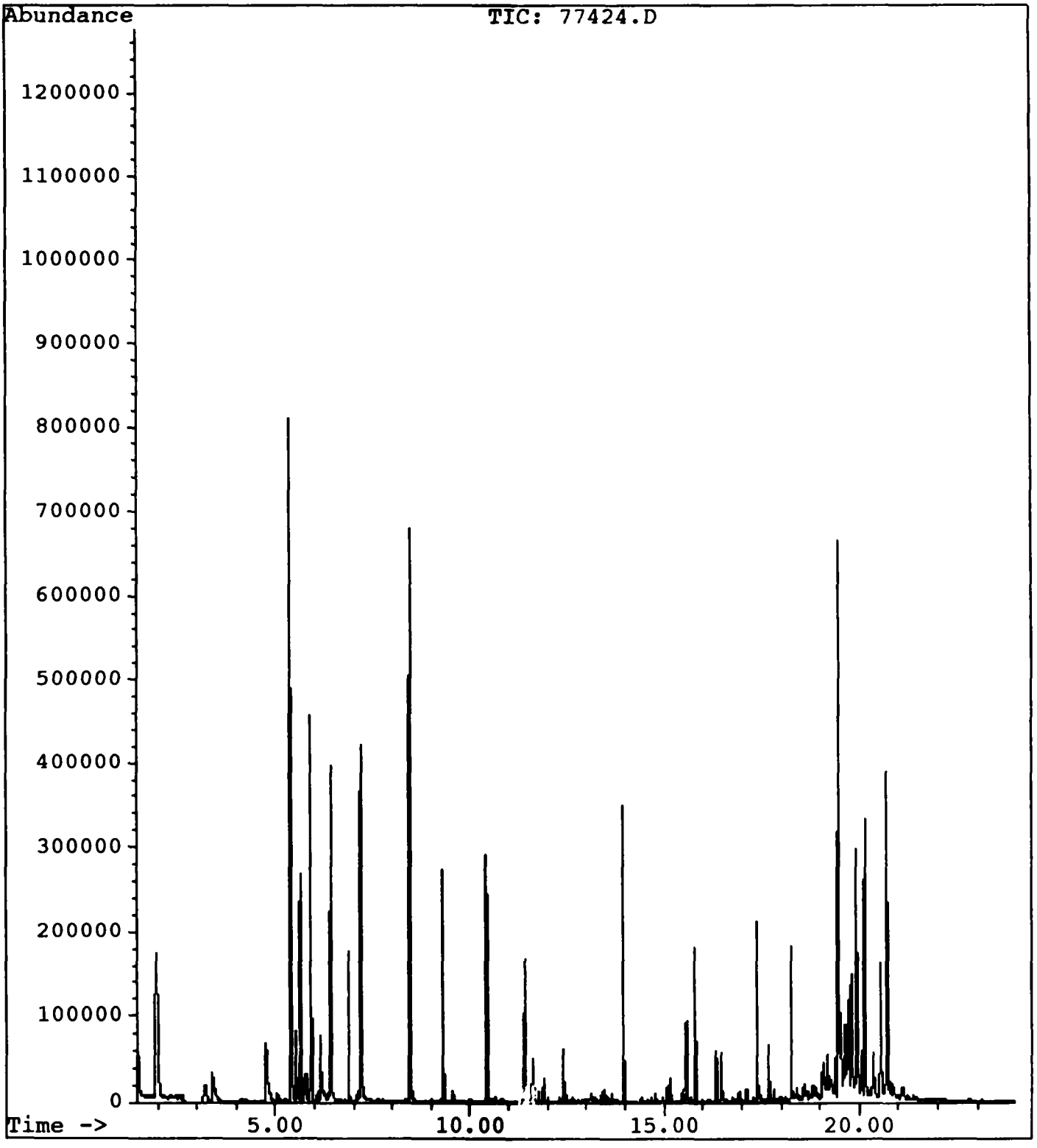
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

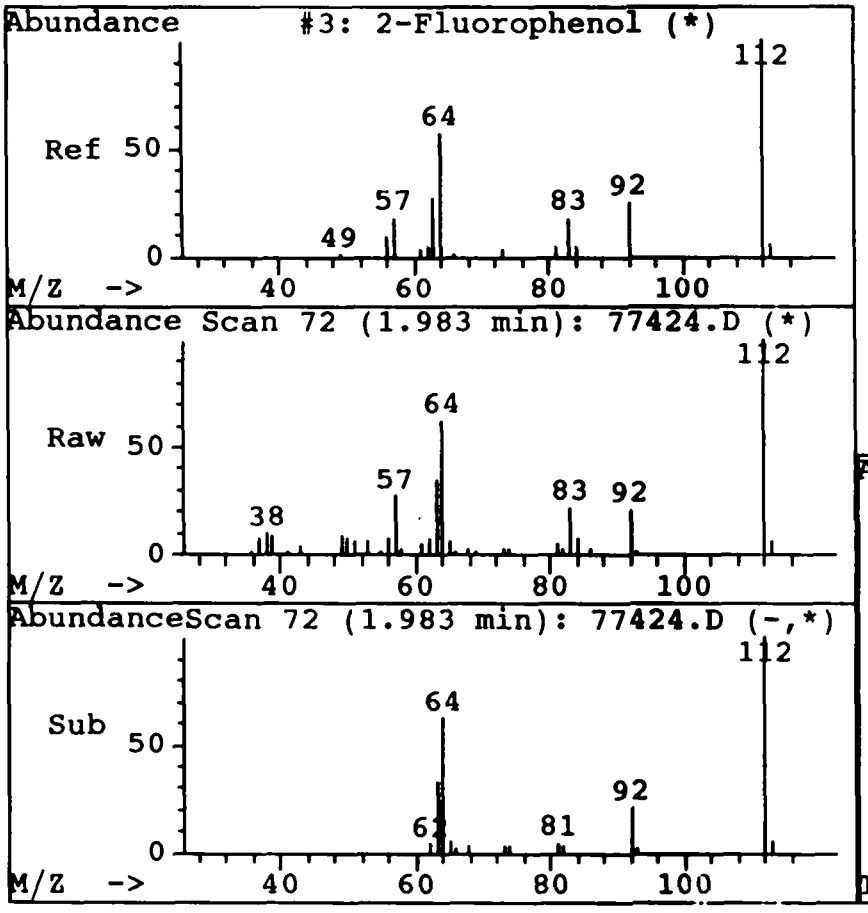
Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration



File: C:\CHEMPC\DATA\040496\77424.D
Operator: AK
Date Acquired: 4 Apr 96 22:55
Method File: OLMO3_1.M
Sample Name: FESOO EXT033096
Misc Info: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
ALS vial: 13

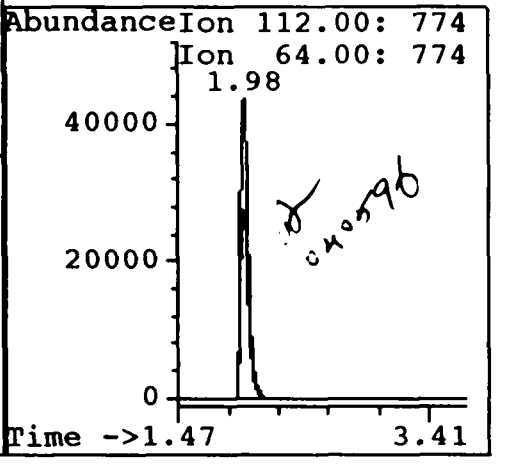


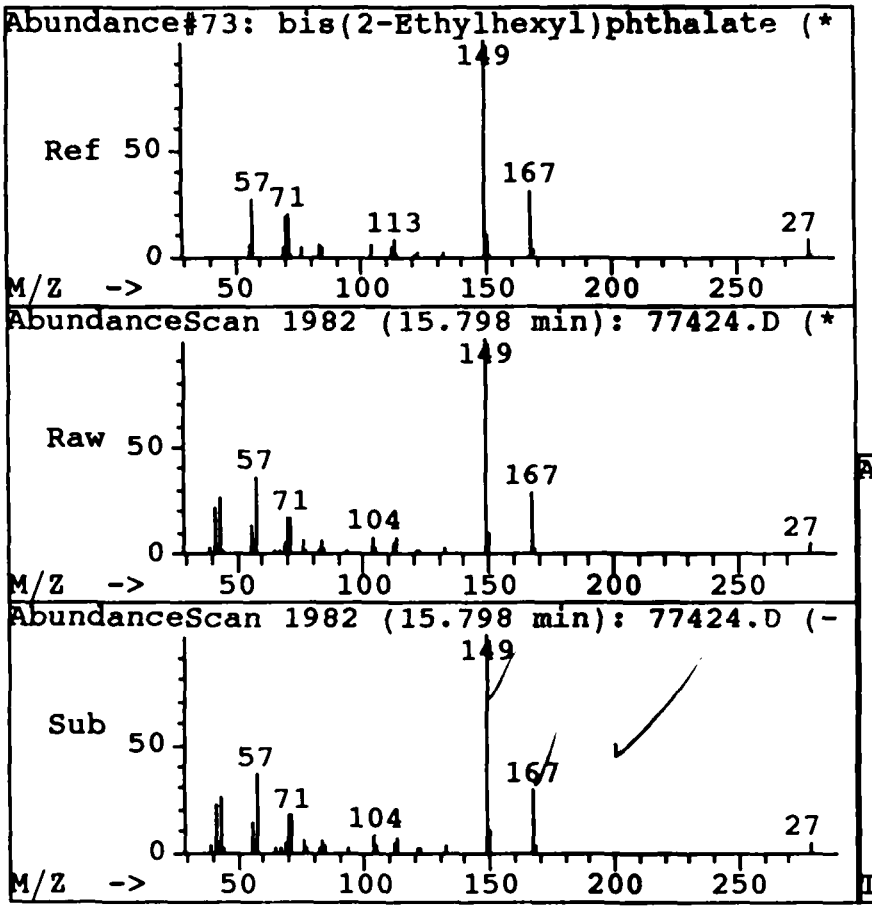


#1 Inst: HP6
CS50 2-Fluorophenol
Concen: 118.51 ug/mL m
RT: 1.98 min Scan# 72
Delta R.T. 0.25 min
Lab File: 77424.D
Acq: 4 Apr 96 22:55
FESOO

Tgt Ion: 112 Area: 185218

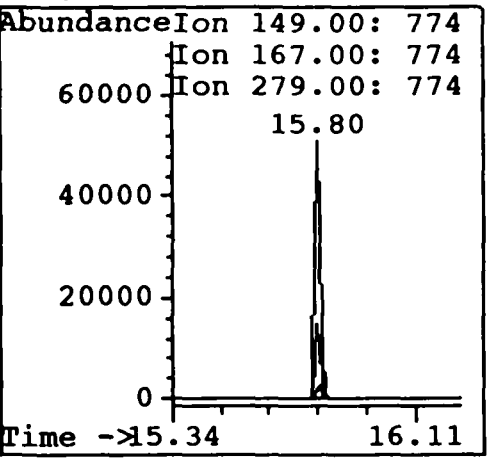
Ion	Ratio	Lower	Upper
112	100		
64	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0





#70 Inst: HP6 **000451**
C745 bis(2-Ethylhexyl)phthala
Concen: 32.88 ug/mL
RT: 15.80 min Scan# 1982
Delta R.T. -0.01 min
Lab File: 77424.D
Acq: 4 Apr 96 22:55
FESOO
Tgt Ion: 149 Area: 57194

Ion	Ratio	Lower	Upper
149	100		
167	28.7	13.5	53.5
279	5.5	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

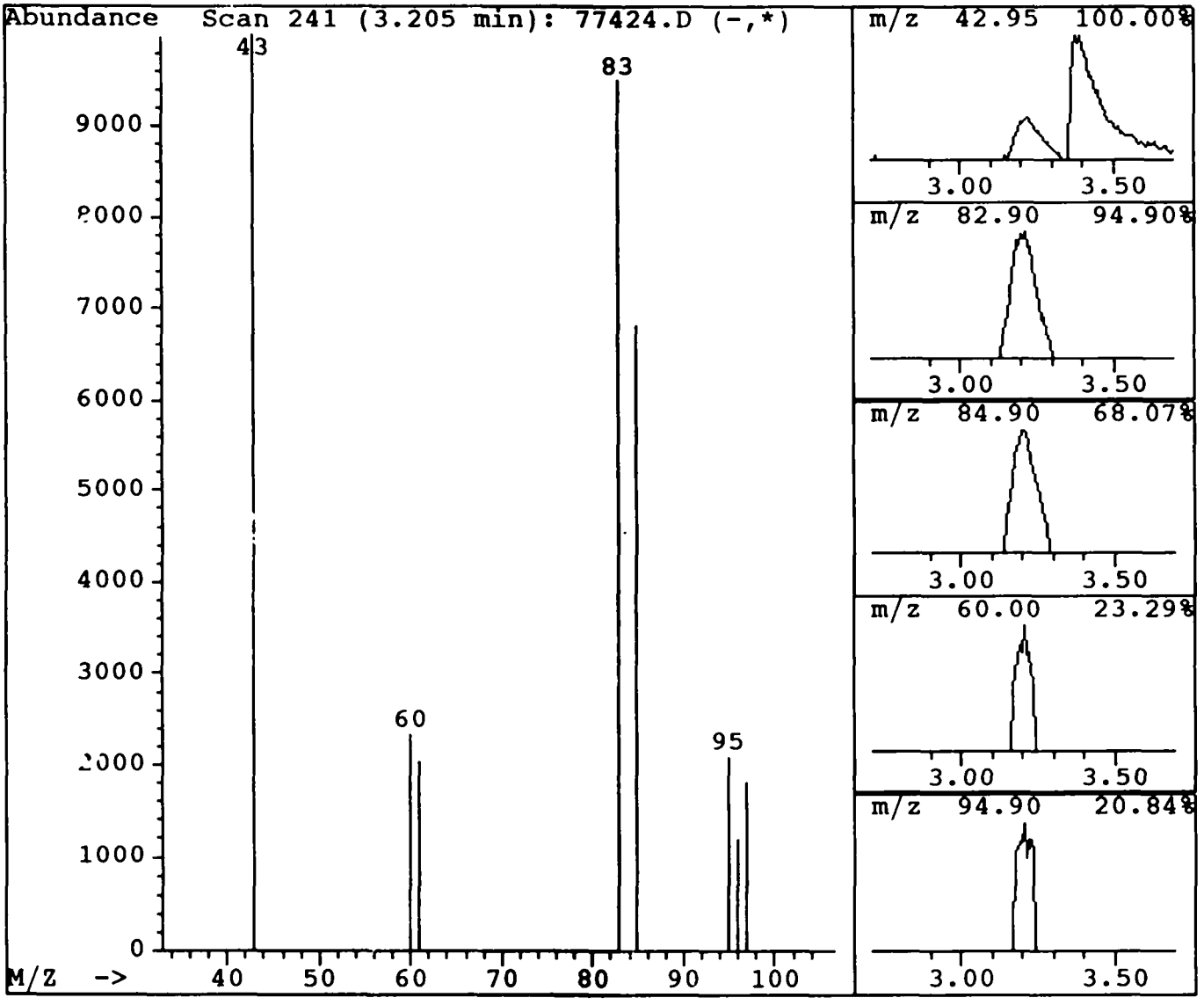
Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

000452

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.21	9.13 ug/mL	100477	CI30 1,4-Dichlorobenzene-	439989

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



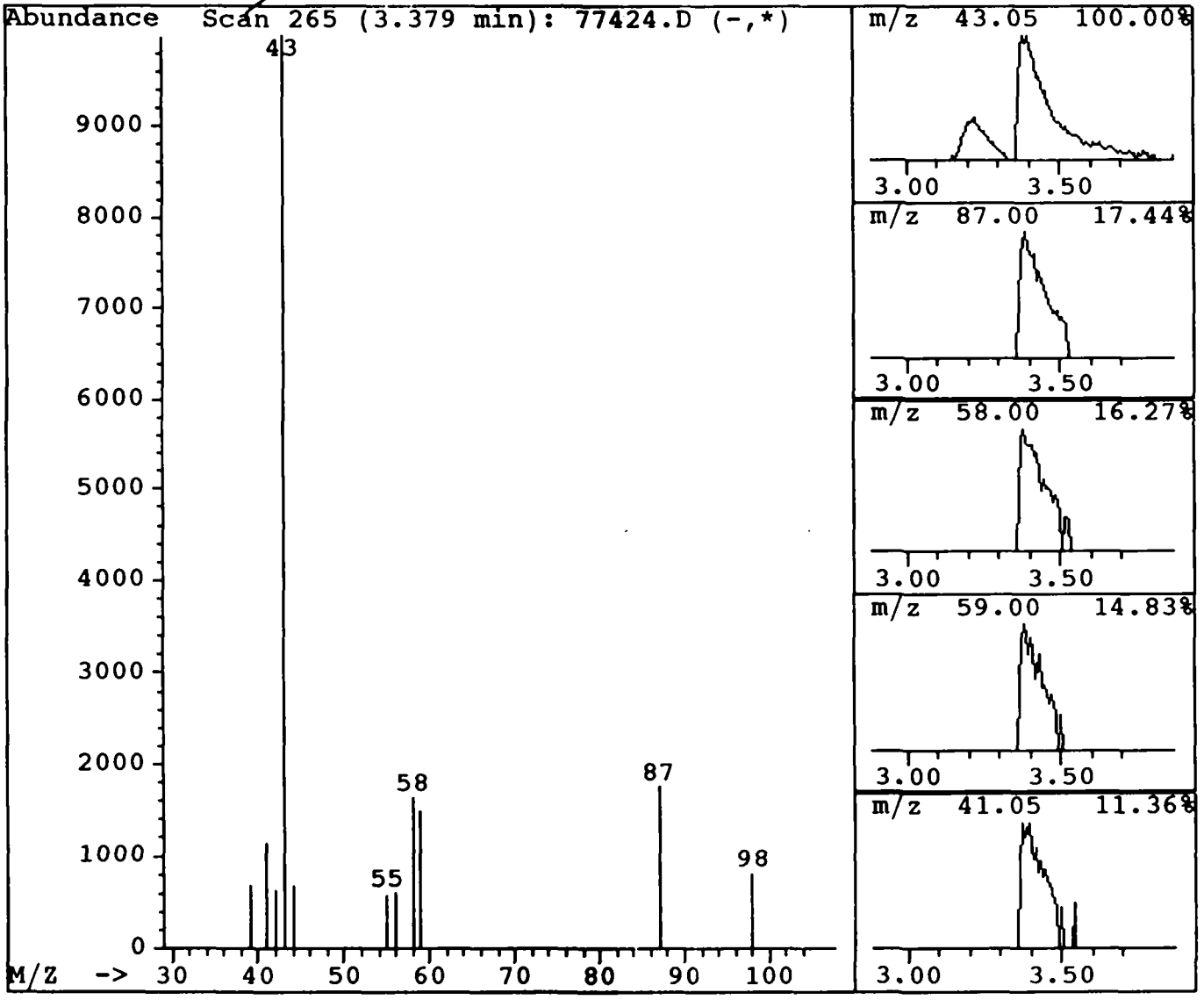
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL 099453
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.38	19.33 ug/mL	212639	CI30 1,4-Dichlorobenzene-	439989

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

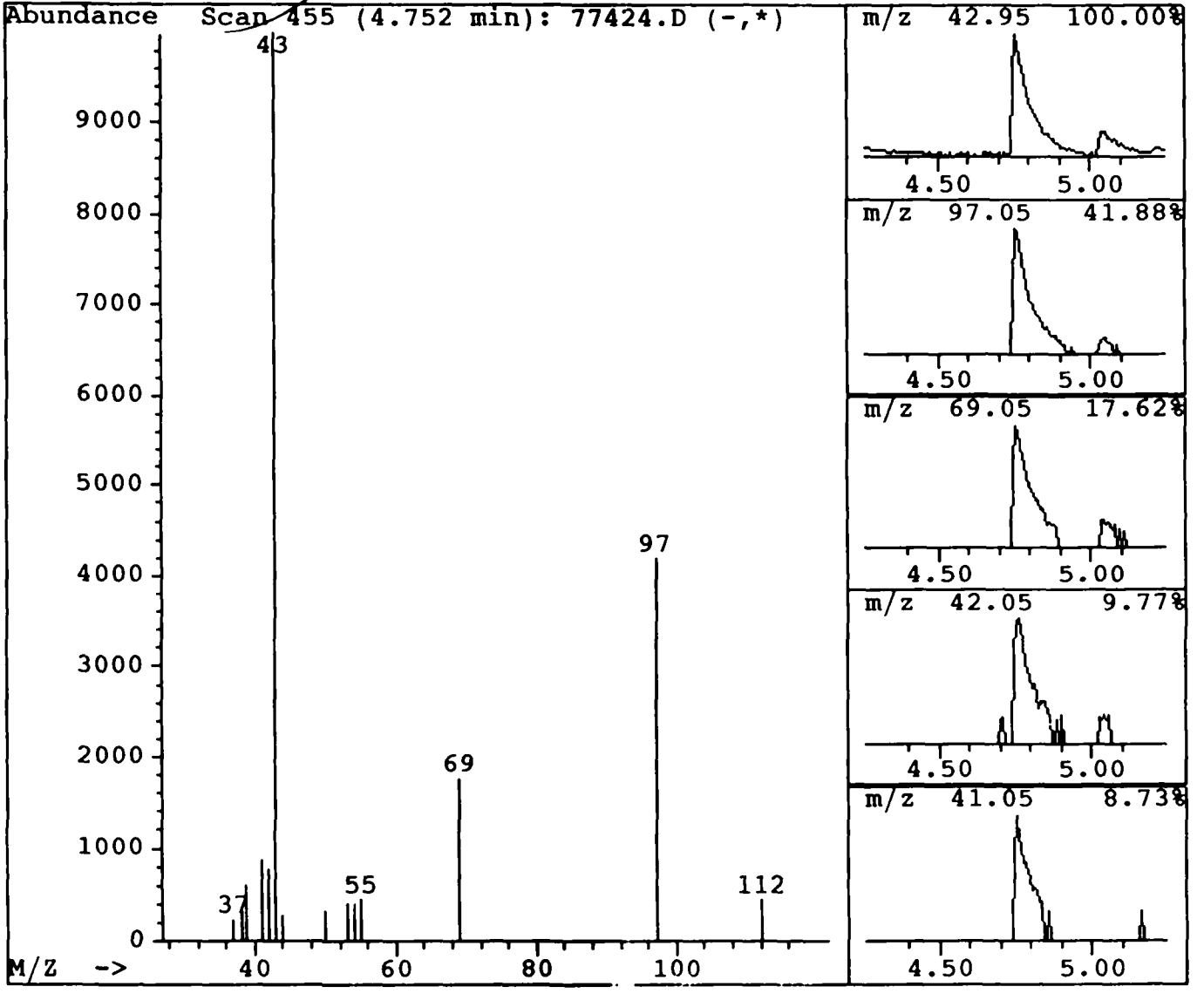
000454

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.75	24.29 ug/mL	267192	CI30 1,4-Dichlorobenzene-	439989

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55

000455

Data File: C:\CHEMPC\DATA\040496\77424.D

Name: FESOO EXT033096

Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

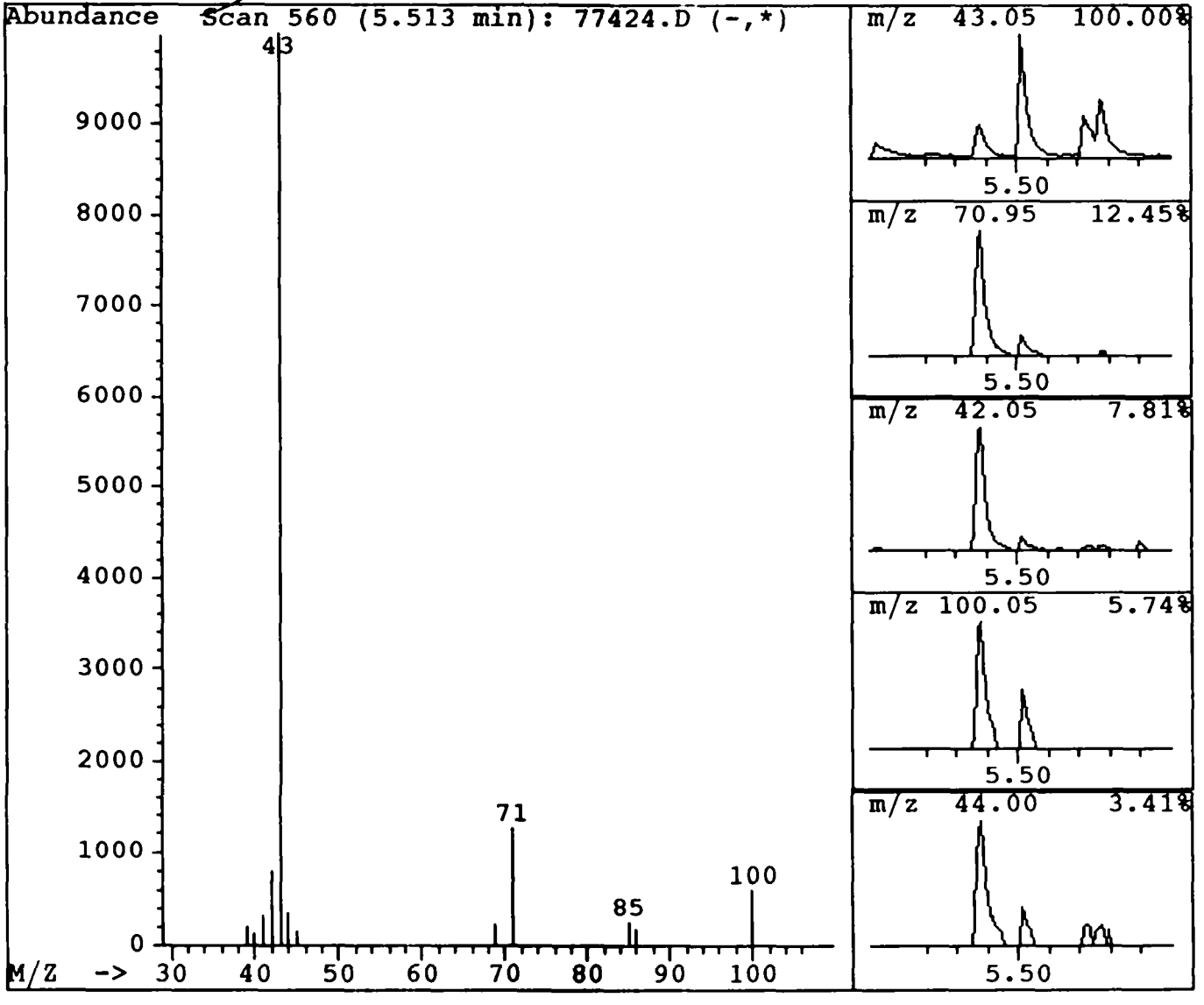
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	13.18 ug/mL	144983	C130 1,4-Dichlorobenzene-	439989

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



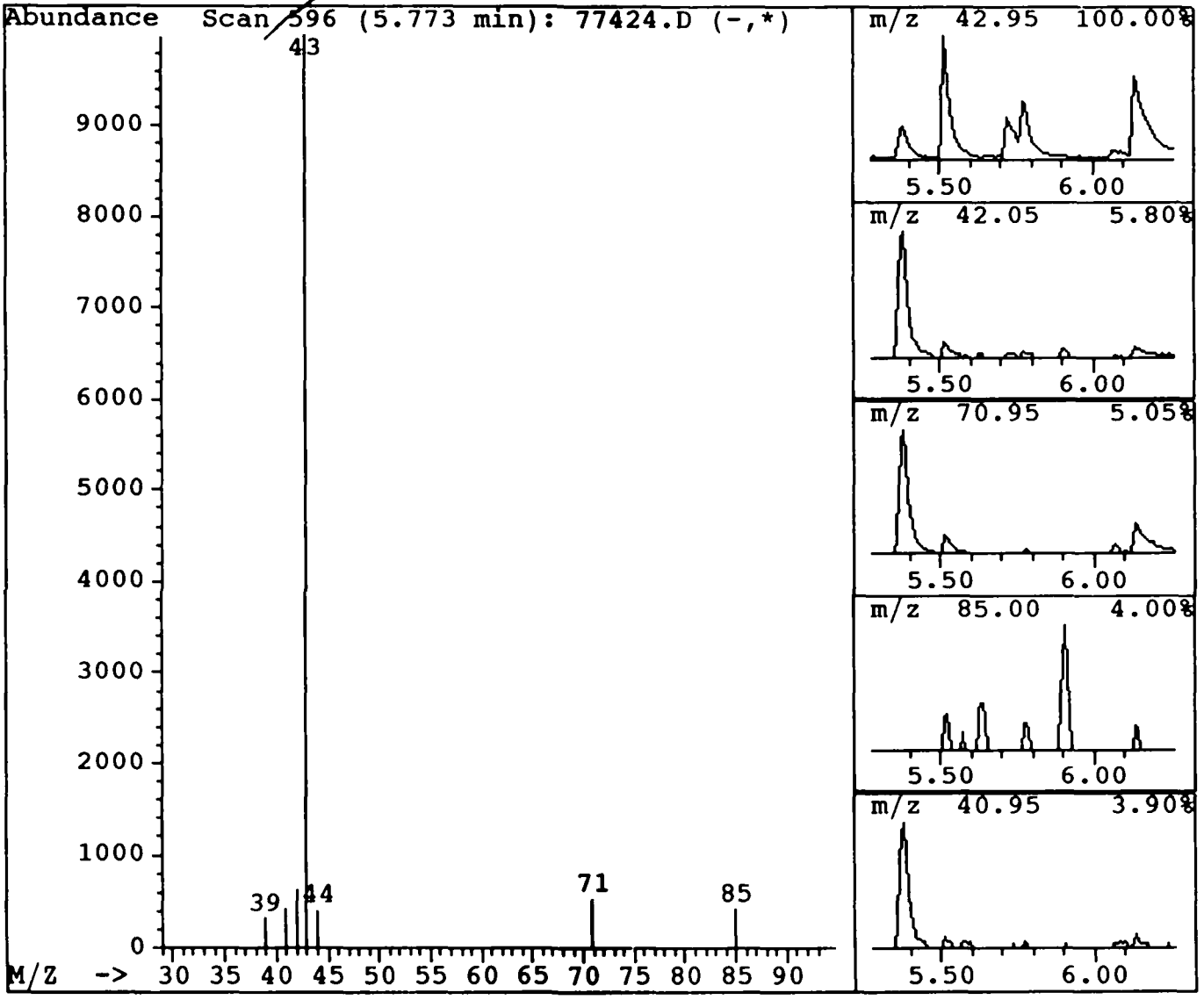
Tentatively Identified Compound (LSC) **000456**

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.77	11.66 ug/mL	128270	C130 1,4-Dichlorobenzene-	439989

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



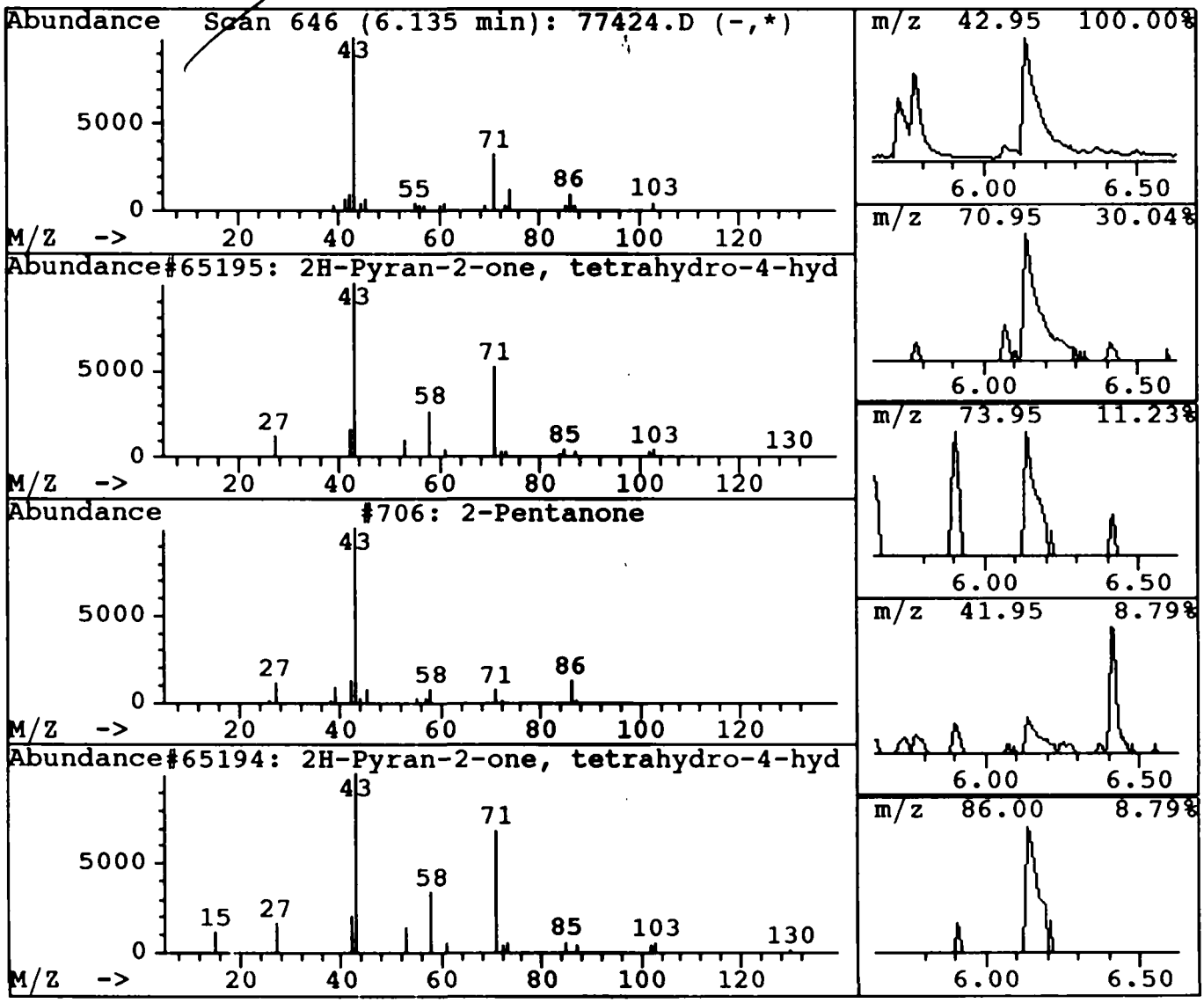
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
6.14	25.10 ug/mL	276144	CI30 1,4-Dichlorobenzene-	439989

Hit# of 8	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran-2-one, tetrahydro-4-hydrox	65195	000503-48-0	40
2	2-Pentanone	706	000107-87-9	38
3	2H-Pyran-2-one, tetrahydro-4-hydrox	65194	000503-48-0	33
4	Pentane, 2-methyl-	62866	000107-83-5	28
5	2-Butanol, 3-methyl-, acetate	5461	005343-96-4	25



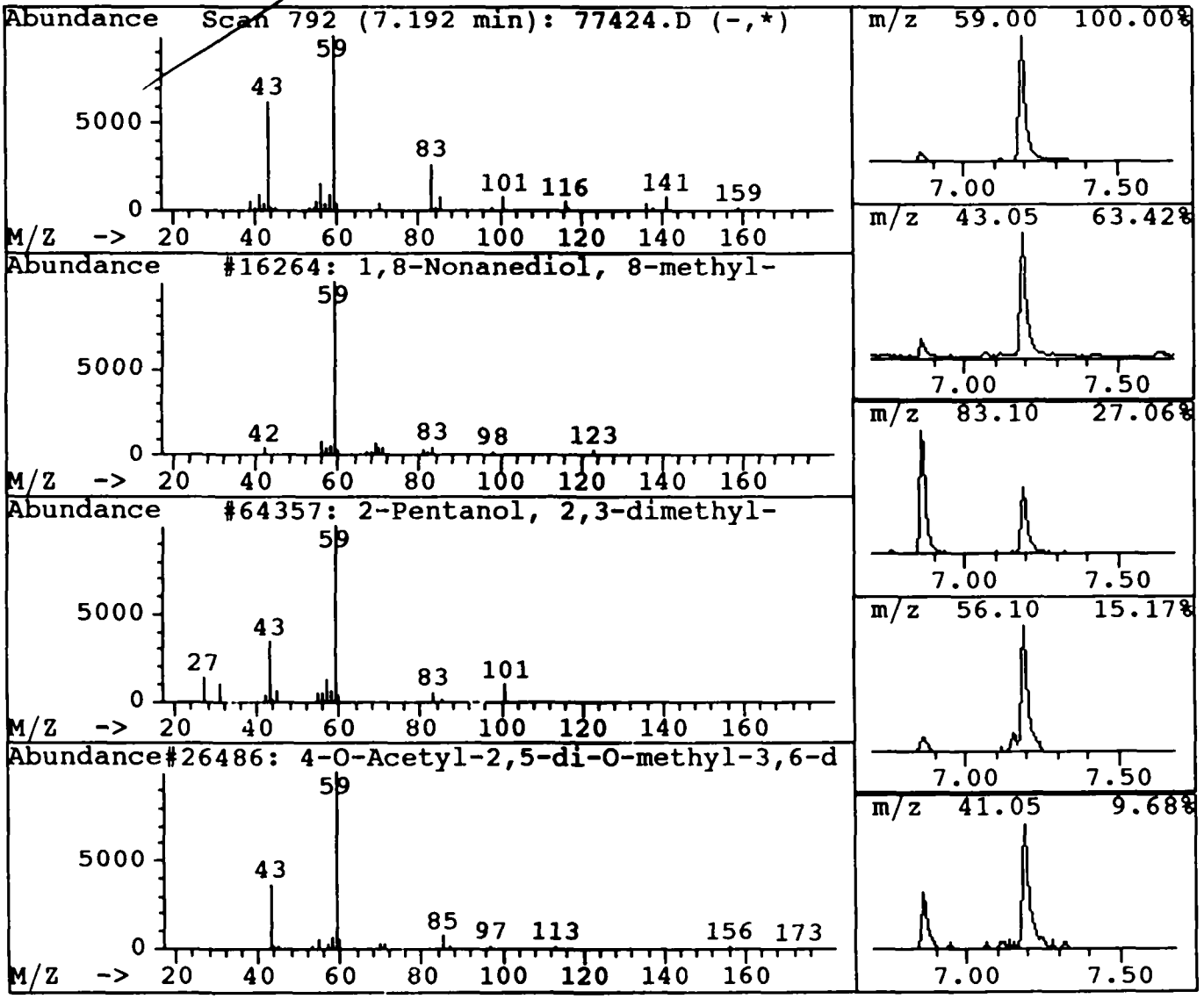
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
7.19	40.00 ug/mL	1106298	CI40 Naphthalene-d8	1106298

Hit# of 11	Tentative ID	Ref#	CAS#	Qual
1	1,8-Nonanediol, 8-methyl-	16264	054725-73-4	42
2	2-Pentanol, 2,3-dimethyl-	64357	004911-70-0	38
3	4-O-Acetyl-2,5-di-O-methyl-3,6-dide	26486	000000-00-0	38
4	3-Pentanol	62941	000584-02-1	38
5	3-Decanol	12061	001565-81-7	36



Tentatively Identified Compound (LSC)

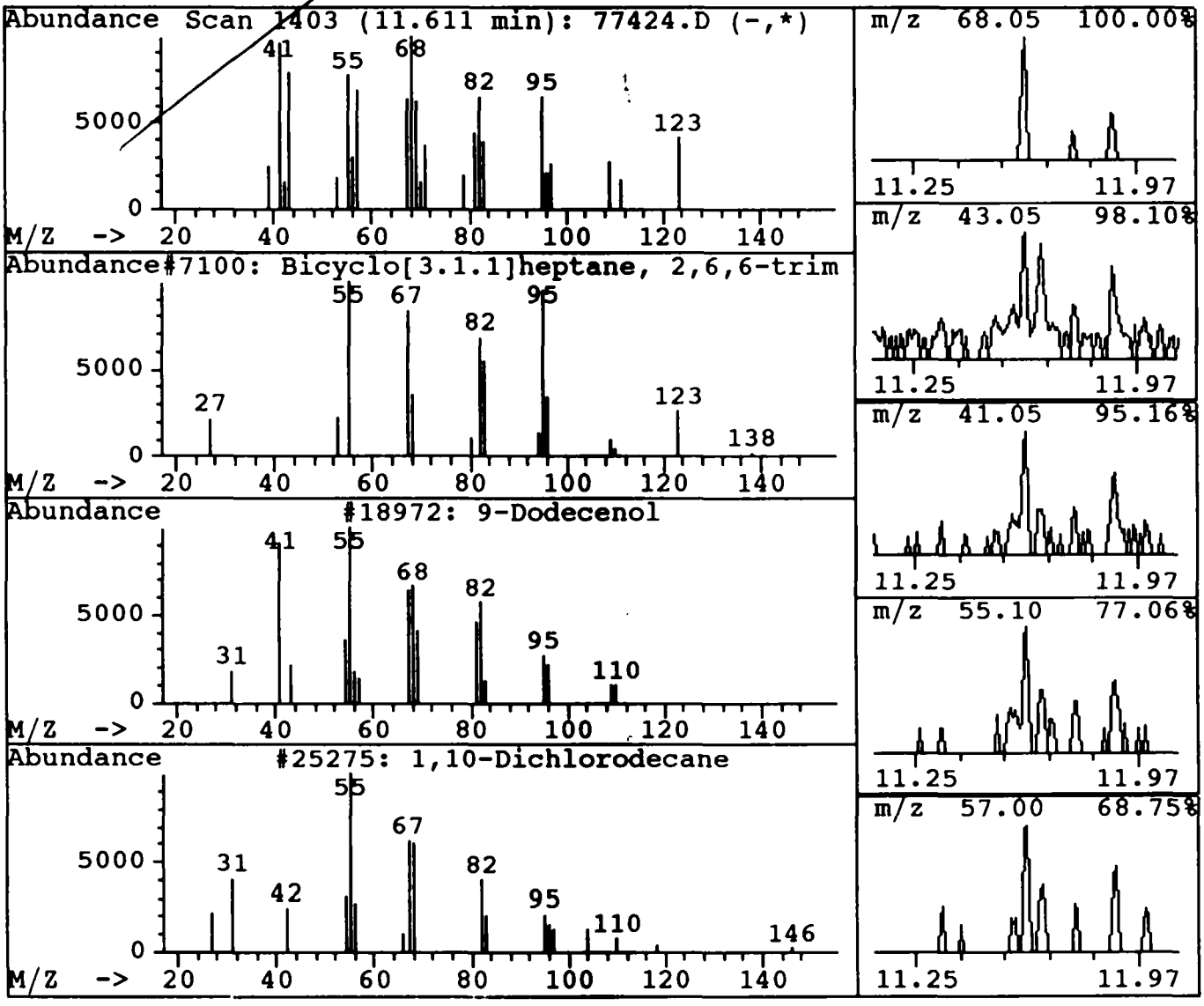
000459

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.61	9.95 ug/mL	64949	CI60 Phenanthrene-d10	261073

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Bicyclo[3.1.1]heptane, 2,6,6-trimet	7100	000473-55-2	38
2	9-Dodecenol	18972	035237-62-8	38
3	1,10-Dichlorodecane	25275	002162-98-3	37
4	1,4-Heptadiene, 3,3,6-trimethyl-	7060	074498-89-8	33
5	11-Dodecenol	18969	035289-31-7	32



Tentatively Identified Compound (LSC)

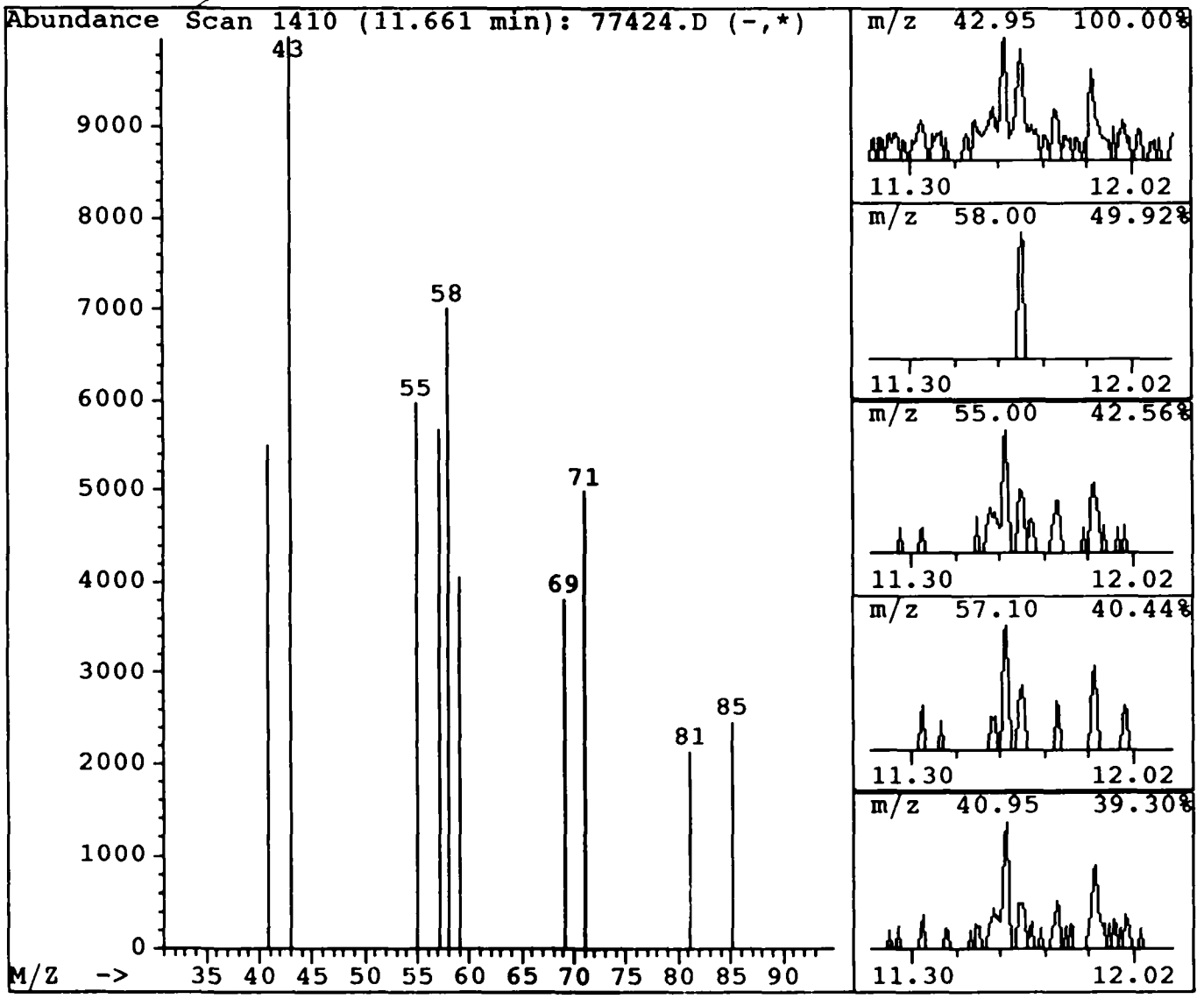
000460

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.66	4.29 ug/mL	27981	CI60 Phenanthrene-d10	261073

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

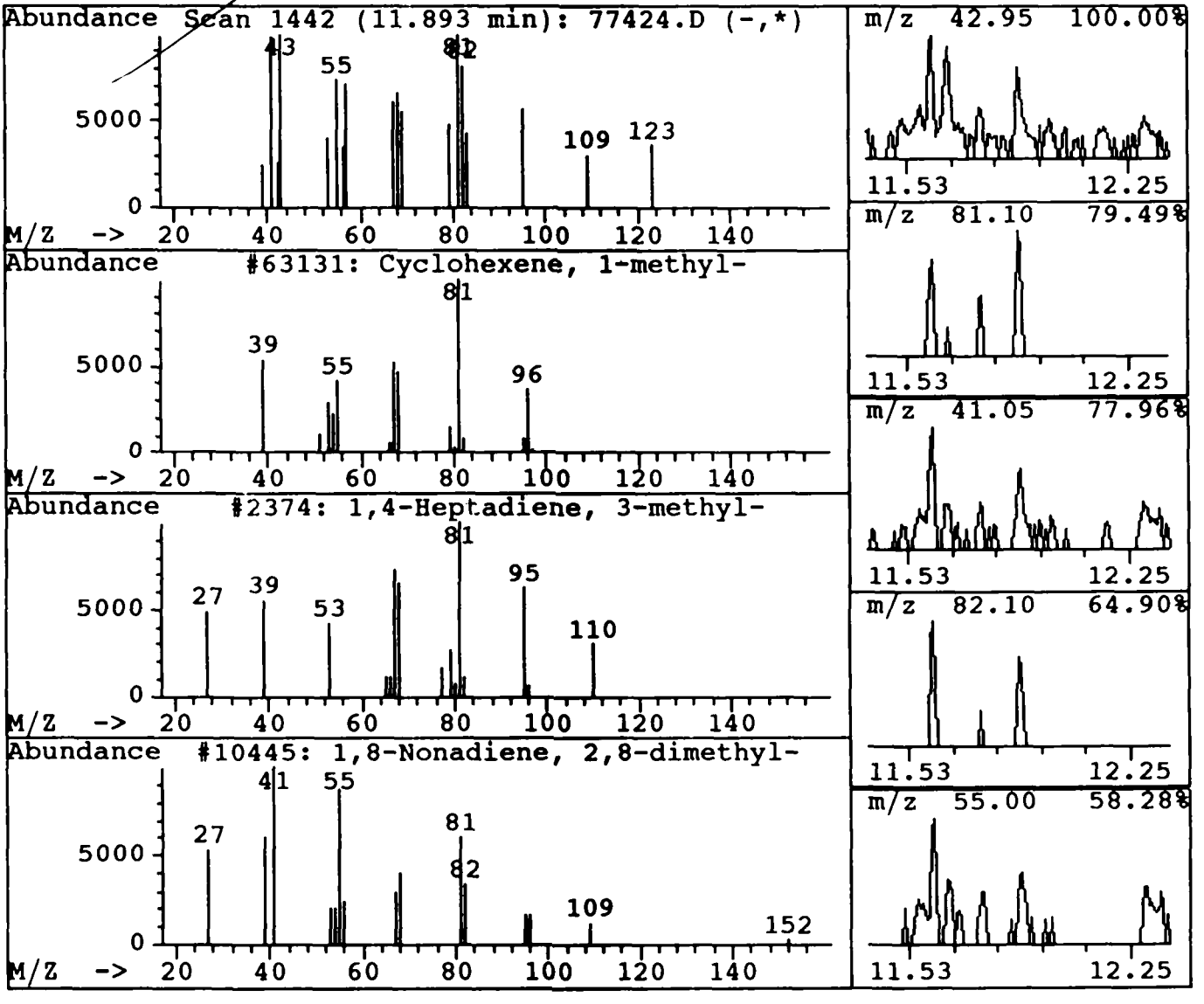
000461

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
11.89	6.25 ug/mL	40818	C160 Phenanthrene-d10	261073

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexene, 1-methyl-	63131	000591-49-1	47
2	1,4-Heptadiene, 3-methyl-	2374	001603-01-6	42
3	1,8-Nonadiene, 2,8-dimethyl-	10445	020054-25-5	38
4	Spiropentane, butyl-	4219	006191-90-8	38
5	3-Undecyne	67005	060212-30-8	36



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55

Data File: C:\CHEMPC\DATA\040496\77424.D

000462

Name: FESOO EXT033096

Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

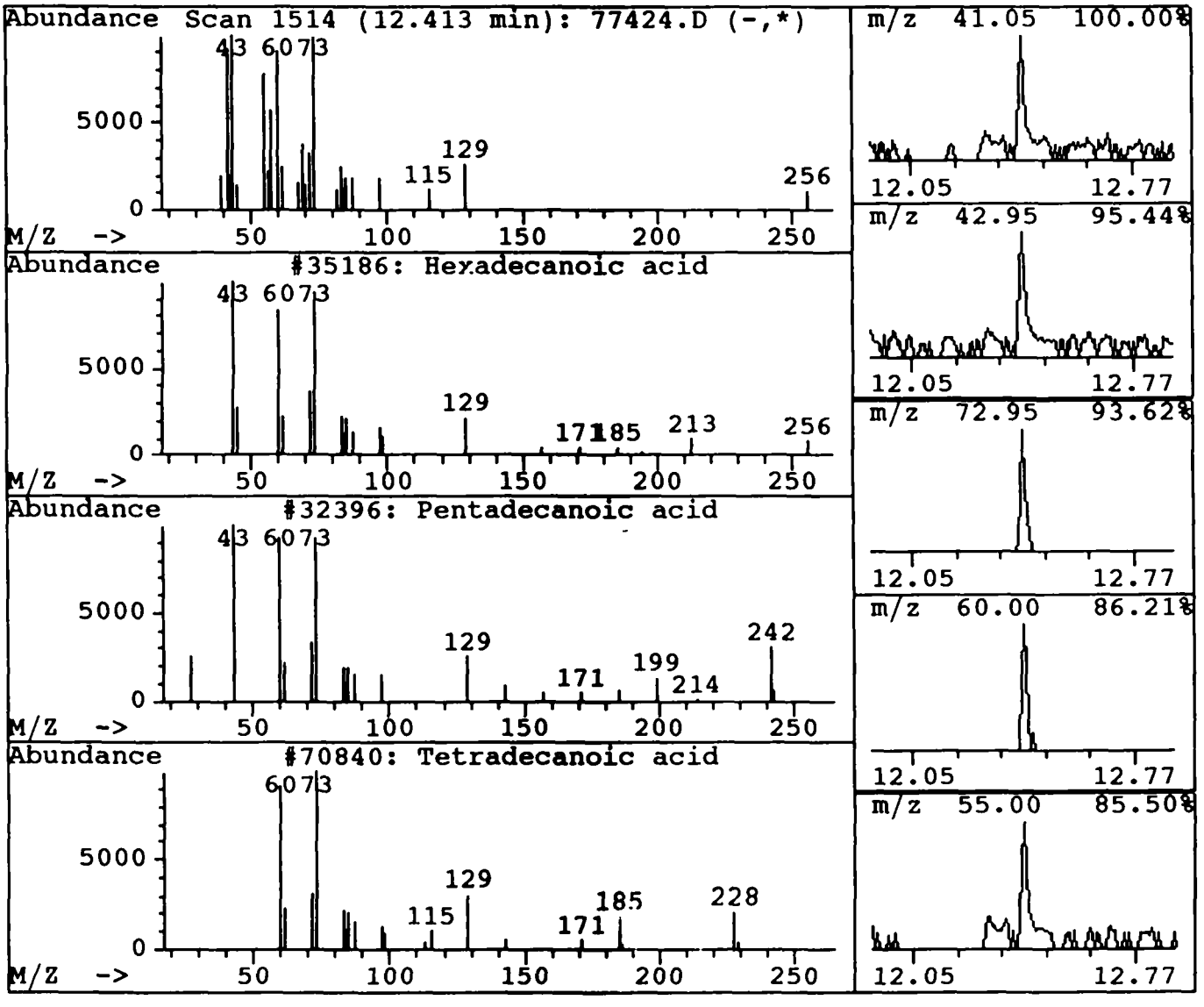
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
12.41	19.12 ug/mL	124777	CI60 Phenanthrene-d10	261073

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexadecanoic acid	35186	000057-10-3	94
2	Pentadecanoic acid	32396	001002-84-2	90
3	Tetradecanoic acid	70840	000544-63-8	90
4	Pentadecanoic acid	71237	001002-84-2	90
5	Tetradecanoic acid	70843	000544-63-8	80



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55

000463

Data File: C:\CHEMPC\DATA\040496\77424.D

Name: FESOO EXT033096

Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

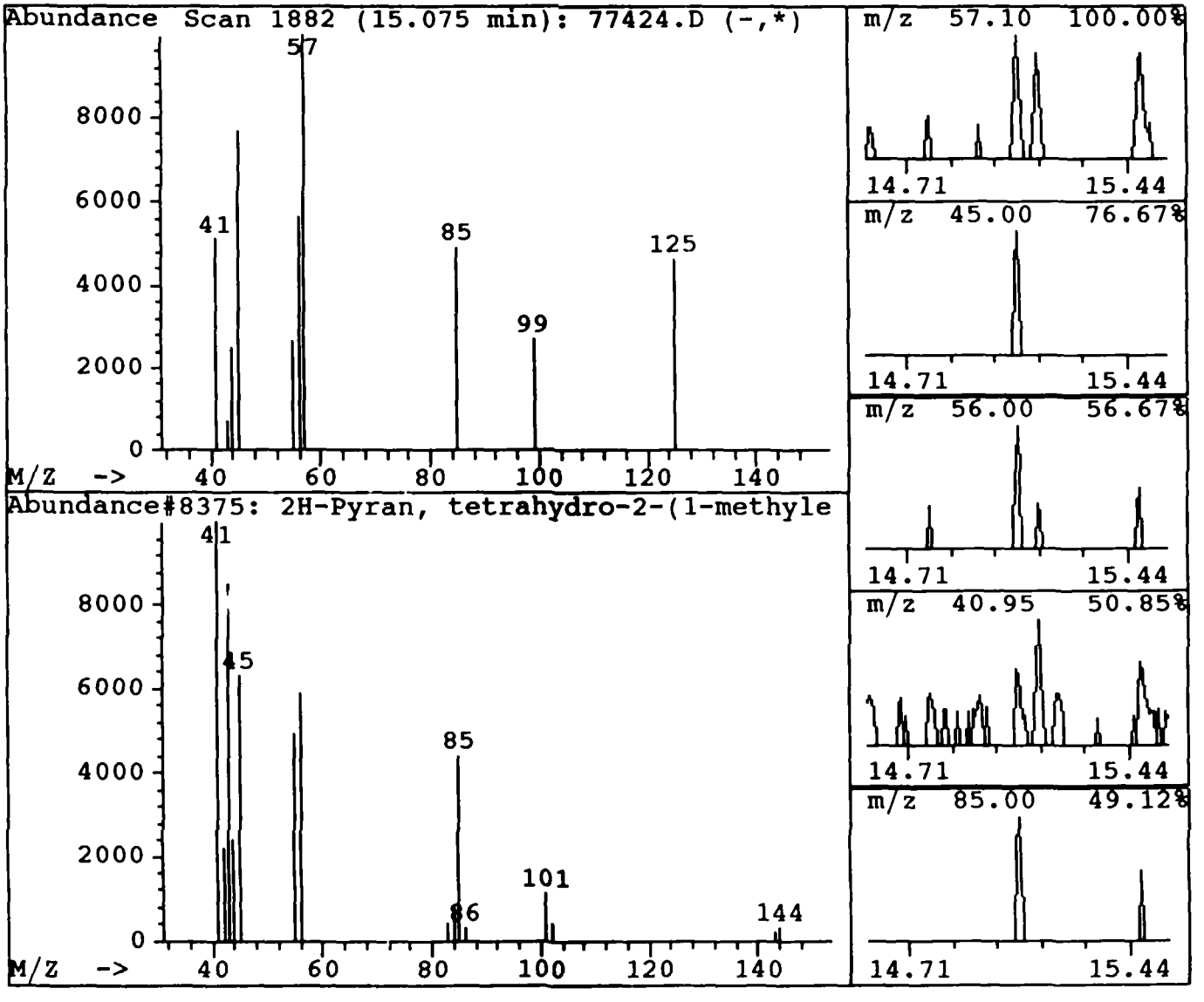
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.08	4.53 ug/mL	18717	CI70 Chrysene-d12	165284

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	2H-Pyran, tetrahydro-2-(1-methyleth	8375	001927-70-4	33



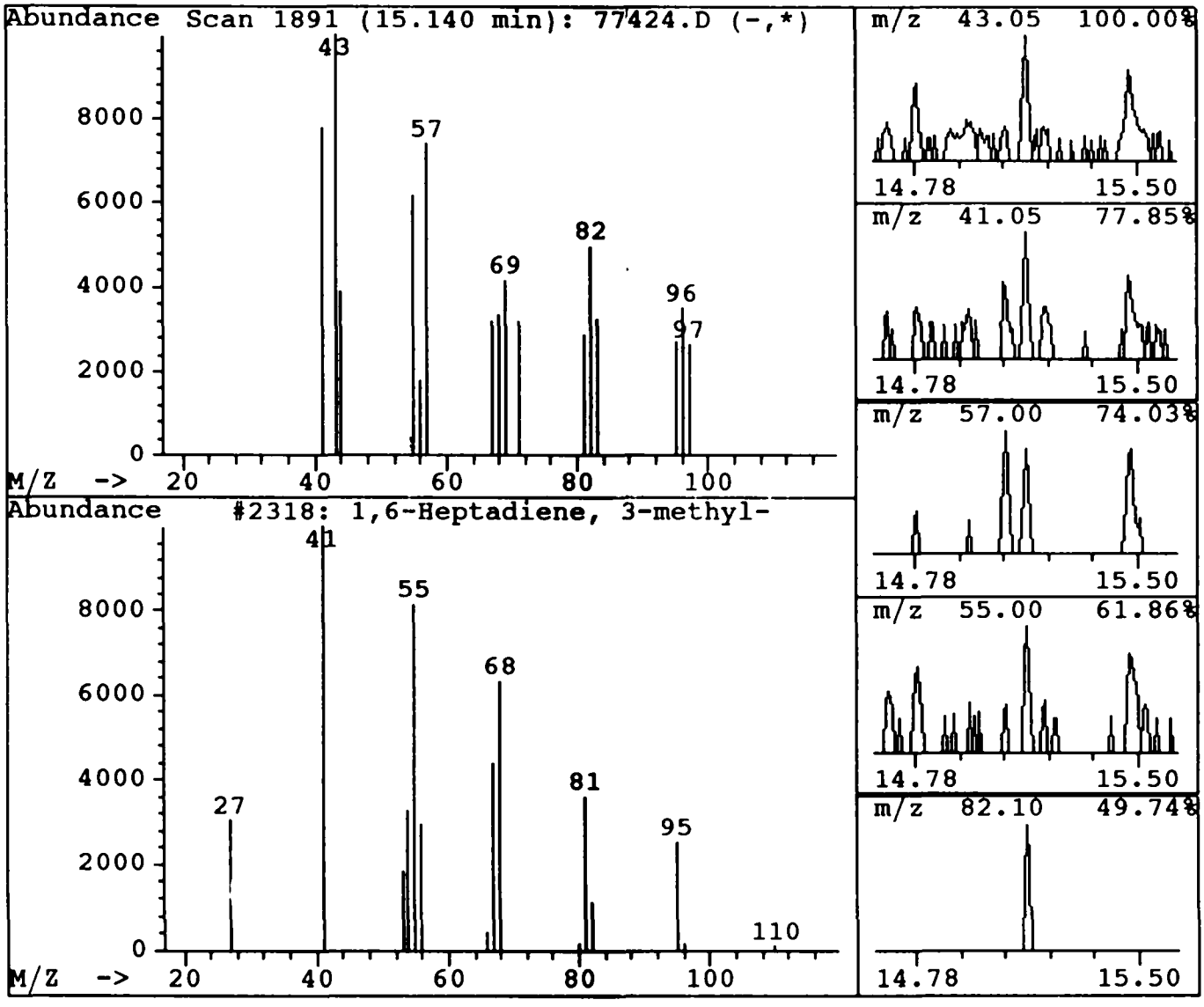
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55 **000464**
Data File: C:\CHEMPC\DATA\040496\774?4.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
15.14	7.23 ug/mL	29892	CI70 Chrysene-d12	165284

Hit# of 1	Tentative ID	Ref#	CAS#	Qual
1	1,6-Heptadiene, 3-methyl-	2318	050871-05-1	10



Tentatively Identified Compound (LSC)

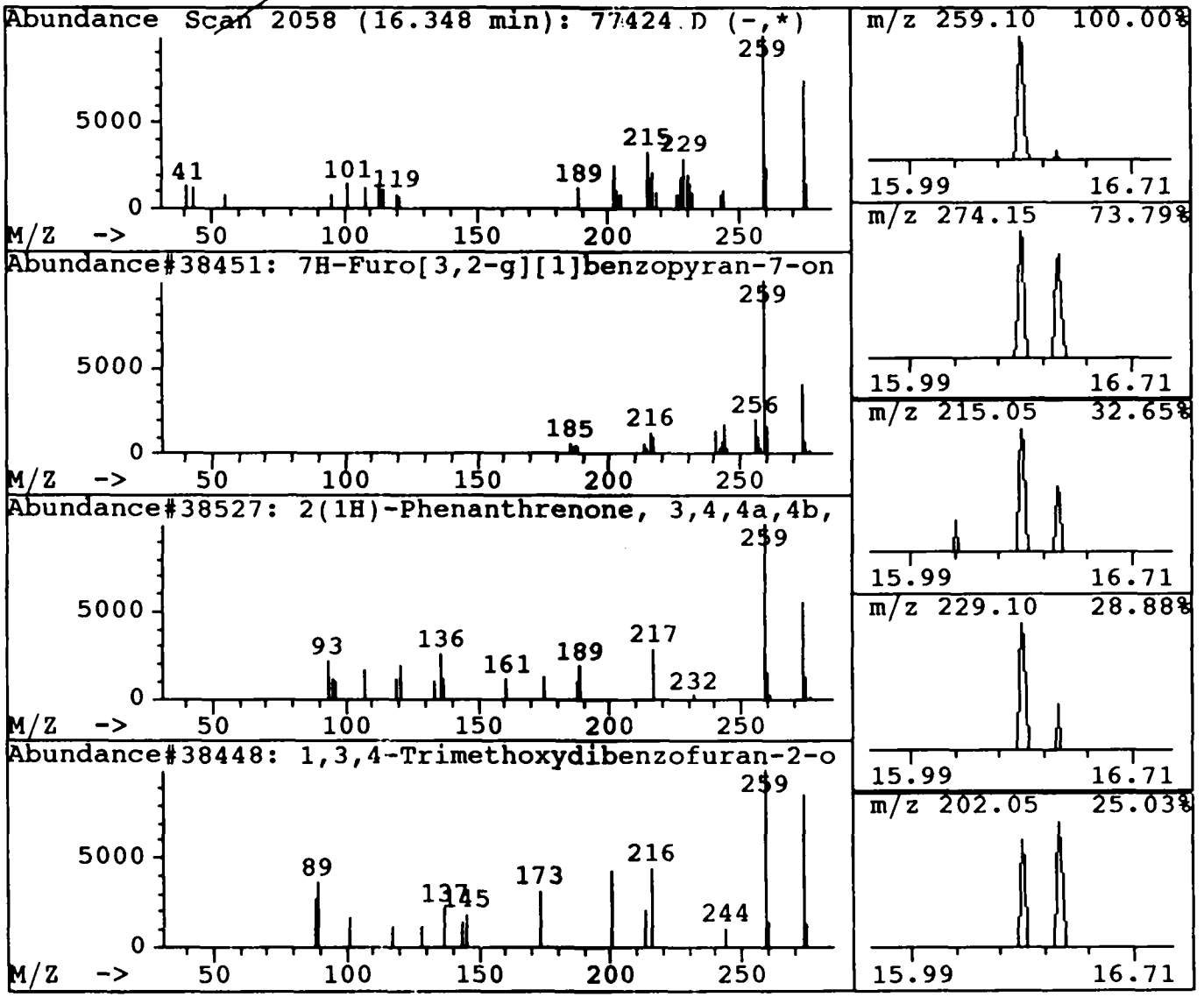
000465

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.35	15.95 ug/mL	65920	C170 Chrysene-d12	165284

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	7H-Furo[3,2-g][1]benzopyran-7-one,	38451	054087-32-0	59
2	2(1H)-Phenanthrenone, 3,4,4a,4b,5,6	38527	007715-44-8	53
3	1,3,4-Trimethoxydibenzofuran-2-ol (	38448	088256-05-7	50
4	10H-Phenoxaphosphine, 2-ethyl-10-hy	38459	036360-91-5	50
5	8-(1,1-Dimethylallyl)-5,7-dimethoxy	38479	017245-25-9	50



Tentatively Identified Compound (LSC)

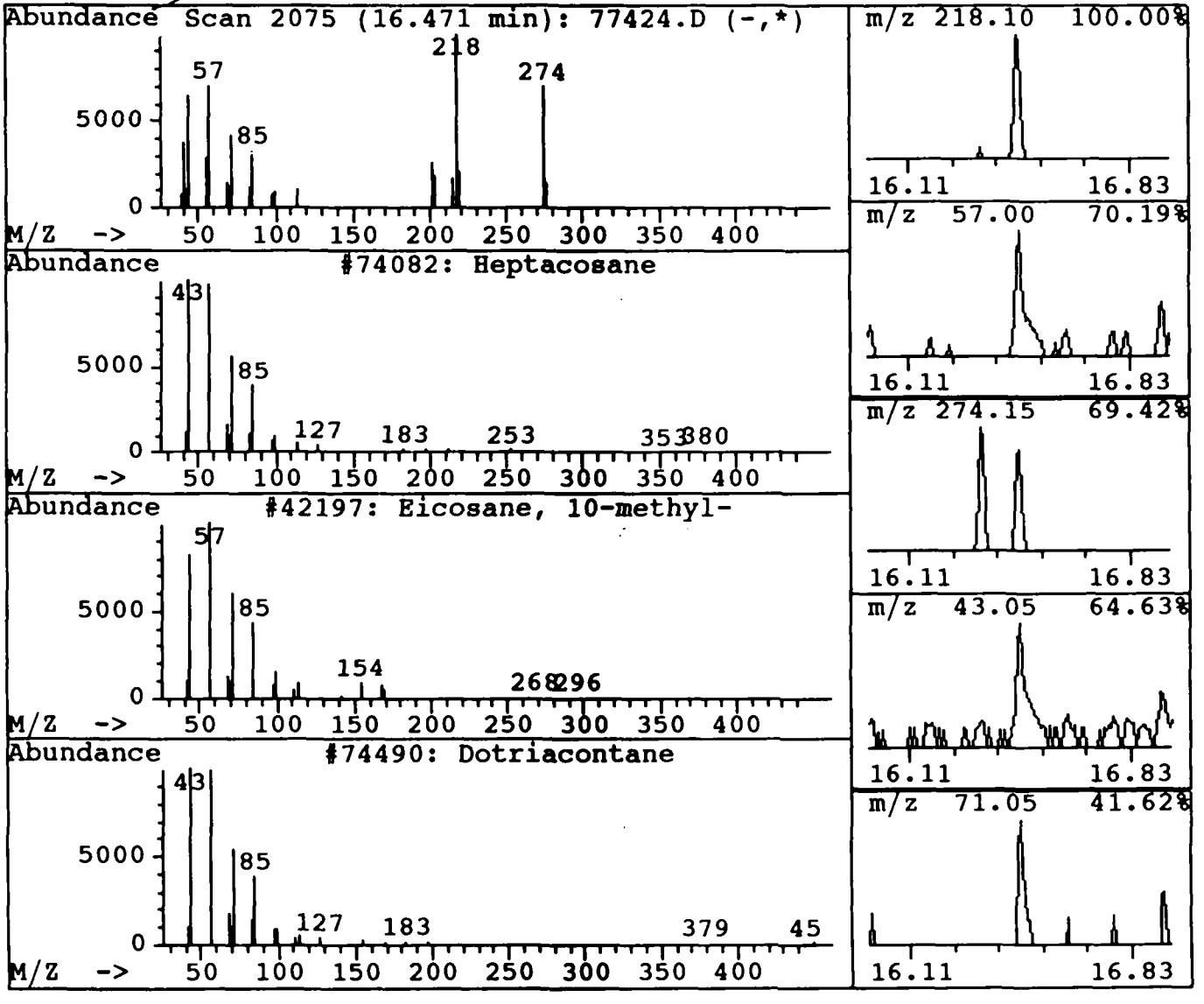
000466

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
16.47	26.11 ug/mL	107906	CI70 Chrysene-d12	165284

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Heptacosane	74082	000593-49-7	11
2	Eicosane, 10-methyl-	42197	054833-23-7	11
3	Dotriacontane	74490	000544-85-4	11
4	Dotriacontane	74491	000544-85-4	11
5	Tricosane	73318	000638-67-5	11



Tentatively Identified Compound (LSC)

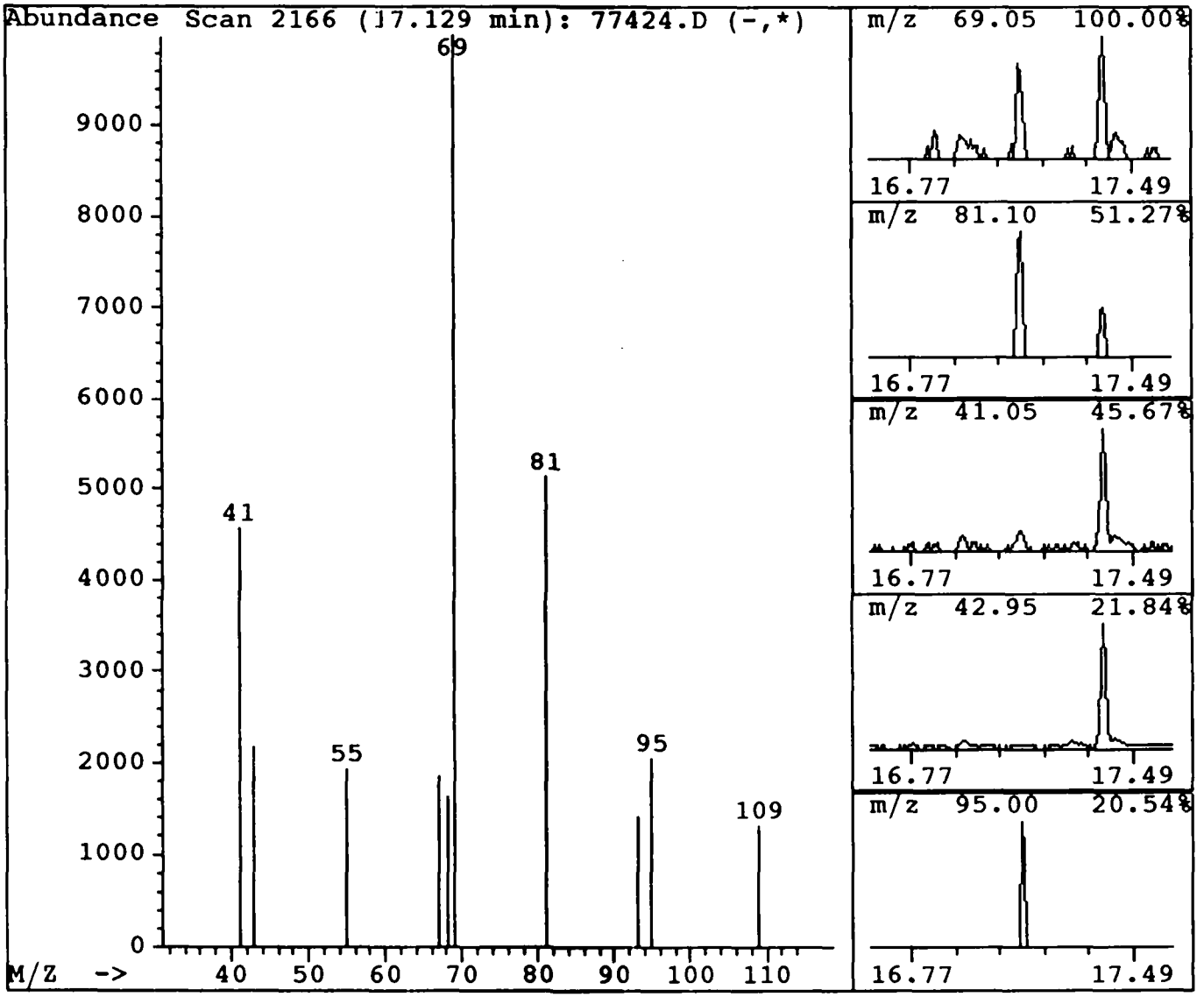
000467

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.13	9.06 ug/mL	28568	CI75 Perylene-d12	126187

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

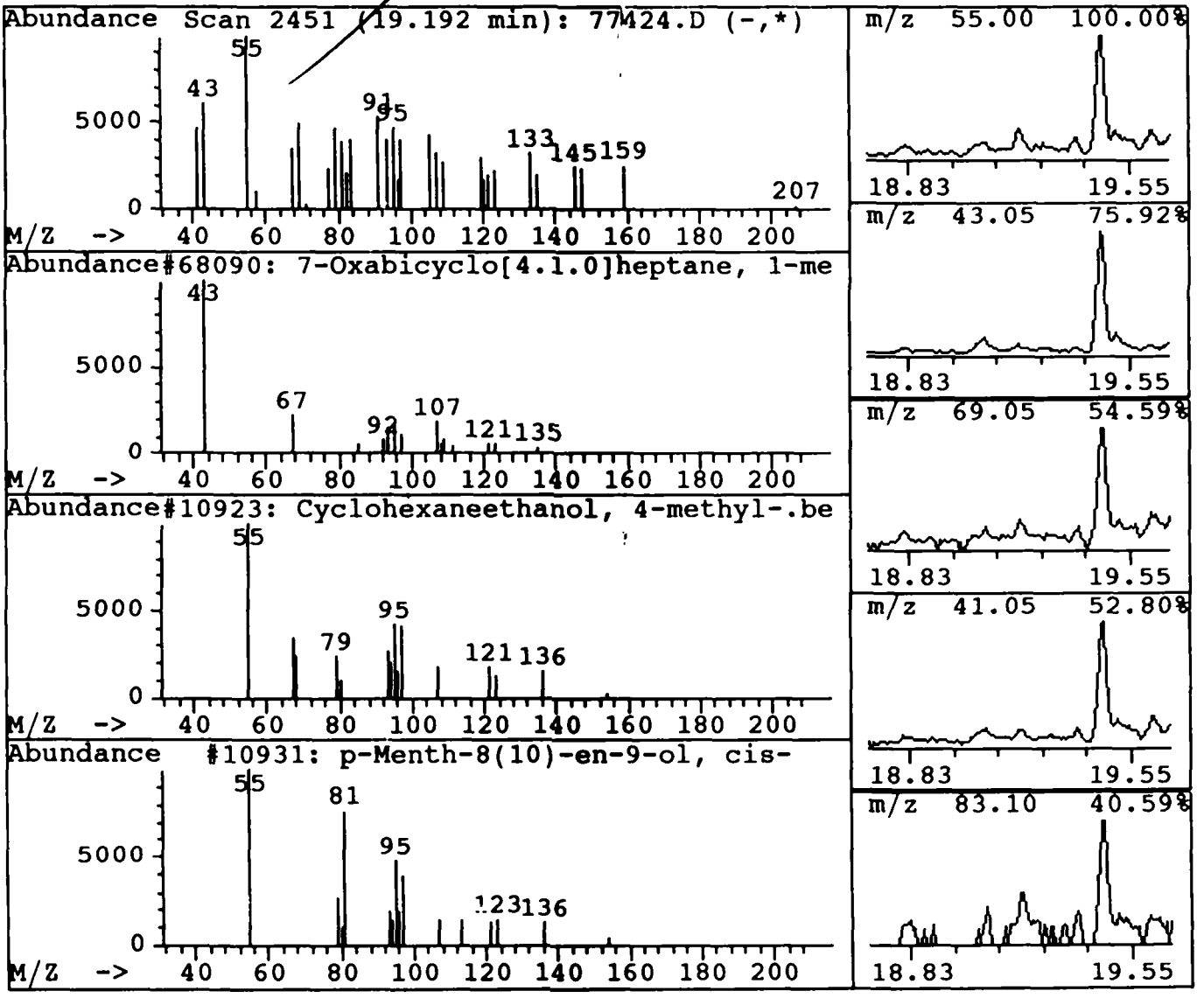
000468

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*1541..01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.19	103.33 ug/mL	325961	CI75 Perylene-d12	126187

Hit# of 8	Tentative ID	Ref#	CAS#	Qual
1	7-Oxabicyclo[4.1.0]heptane, 1-methy	68090	000096-08-2	25
2	Cyclohexaneethanol, 4-methyl-.beta.	10923	015714-12-2	22
3	p-Menth-8(10)-en-9-ol, cis-	10931	015714-13-3	16
4	6-Octen-1-ol, 3,7-dimethyl-, acetat	69609	000150-84-5	14
5	6-Octen-1-ol, 3,7-dimethyl-, acetat	69612	000150-84-5	10



Tentatively Identified Compound (LSC)

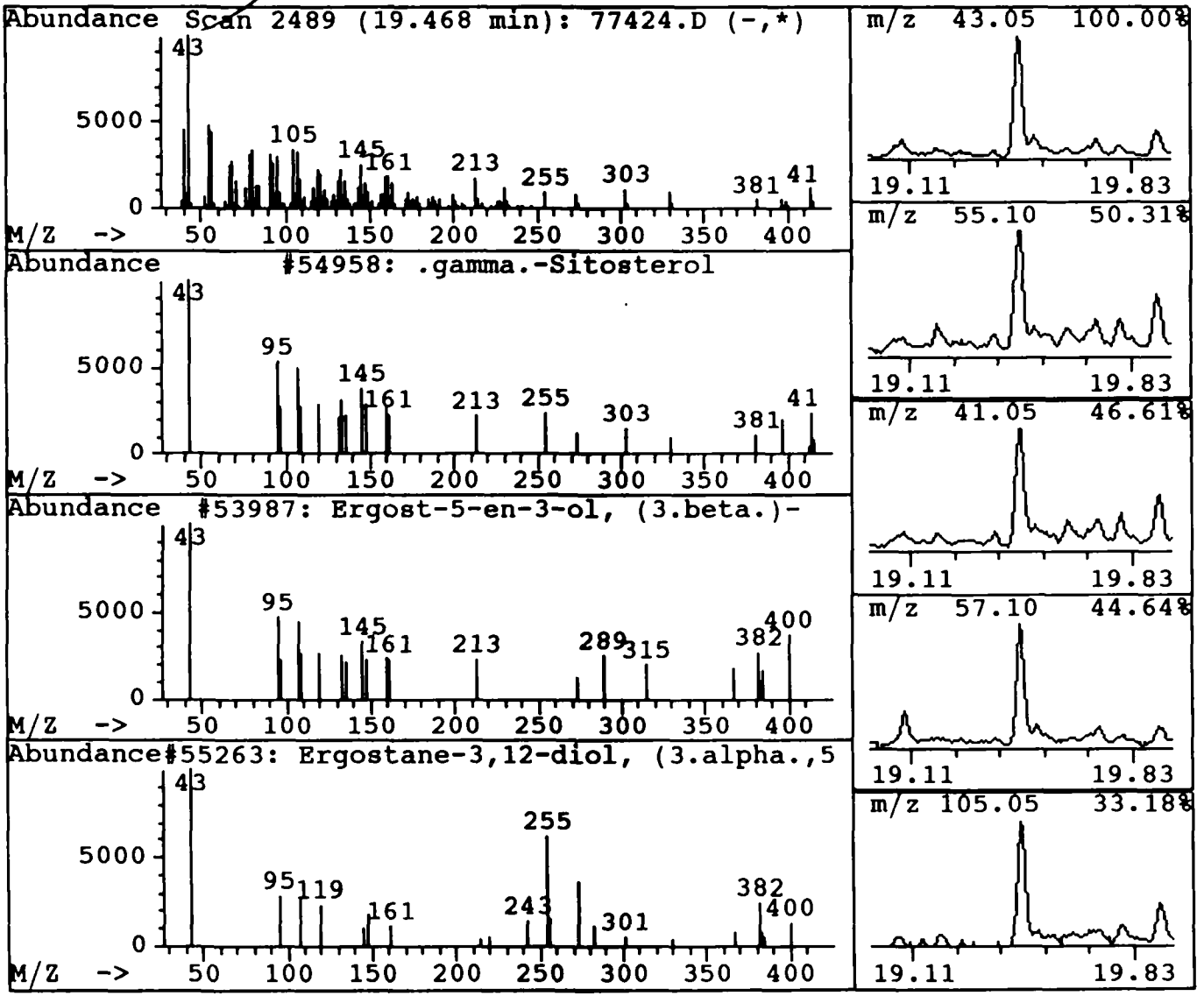
000469

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.47	670.80 ug/mL	2116157	CI75 Perylene-d12	126187

Hit# of 9	Tentative ID	Ref#	CAS#	Qual
1	.gamma.-Sitosterol	54958	000083-47-6	90
2	Ergost-5-en-3-ol, (3.beta.)-	53987	004651-51-8	58
3	Ergostane-3,12-diol, (3.alpha.,5.be	55263	056052-70-1	25
4	Ergost-7-en-3-ol, (3.beta.)-	53969	026047-31-4	16
5	Cholest-7-en-3-ol, 4,4-dimethyl-, (	54965	006384-28-7	15



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55

000470

Data File: C:\CHEMPC\DATA\040496\77424.D

Name: FESOO EXT033096

Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

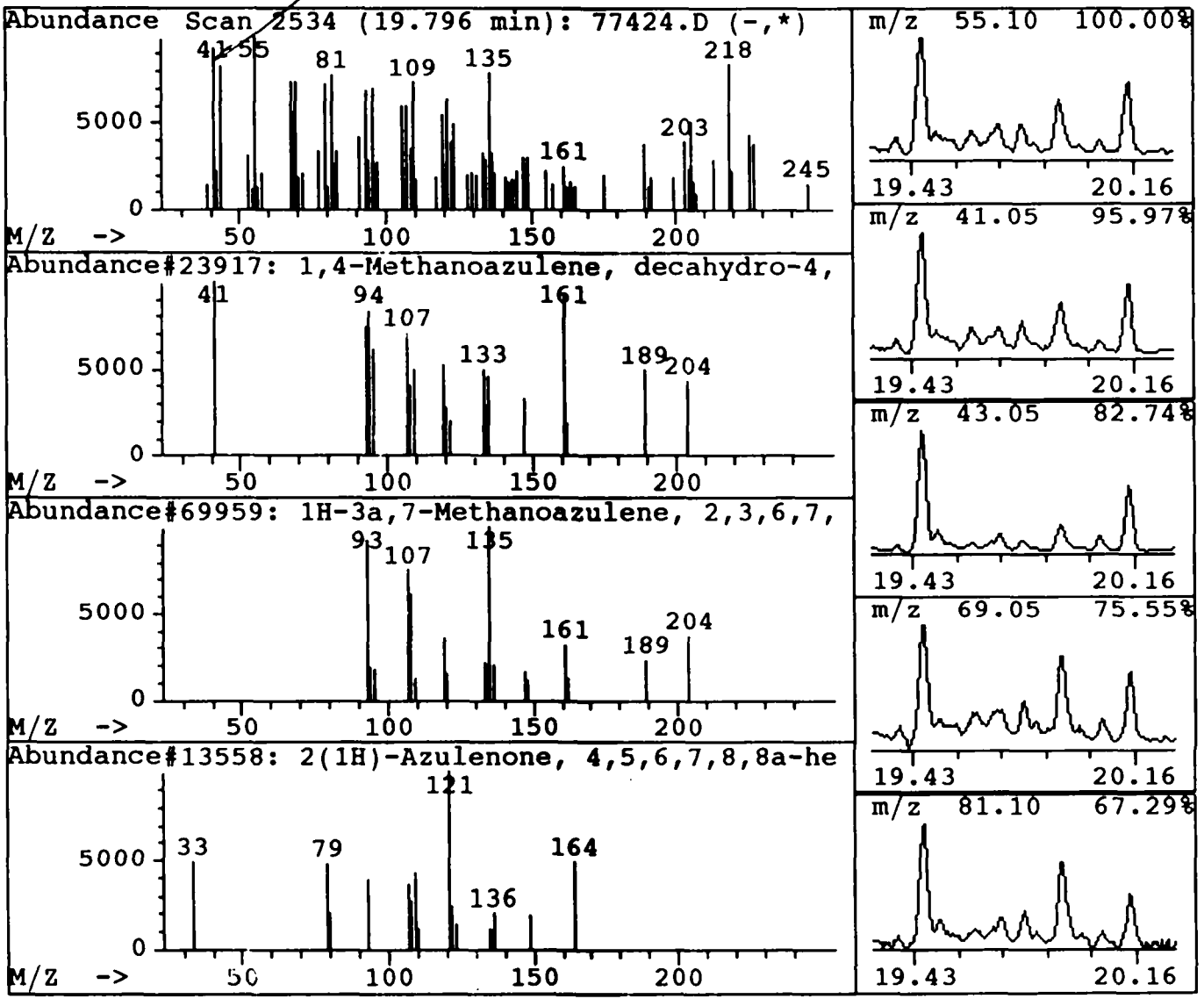
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.80	107.33 ug/mL	338592	C175 Perylene-d12	126187

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,4-Methanoazulene, decahydro-4,8,8	23917	000475-20-7	42
2	1H-3a,7-Methanoazulene, 2,3,6,7,8,8	69959	000560-32-7	25
3	2(1H)-Azulenone, 4,5,6,7,8,8a-hexah	13558	055103-73-6	22
4	1H-Cycloprop[e]azulene, 1a,2,3,5,6,	23891	021747-46-6	20
5	Azulene, 1,2,3,5,6,7,8,8a-octahydro	69907	003691-11-0	15



Tentatively Identified Compound (LSC)

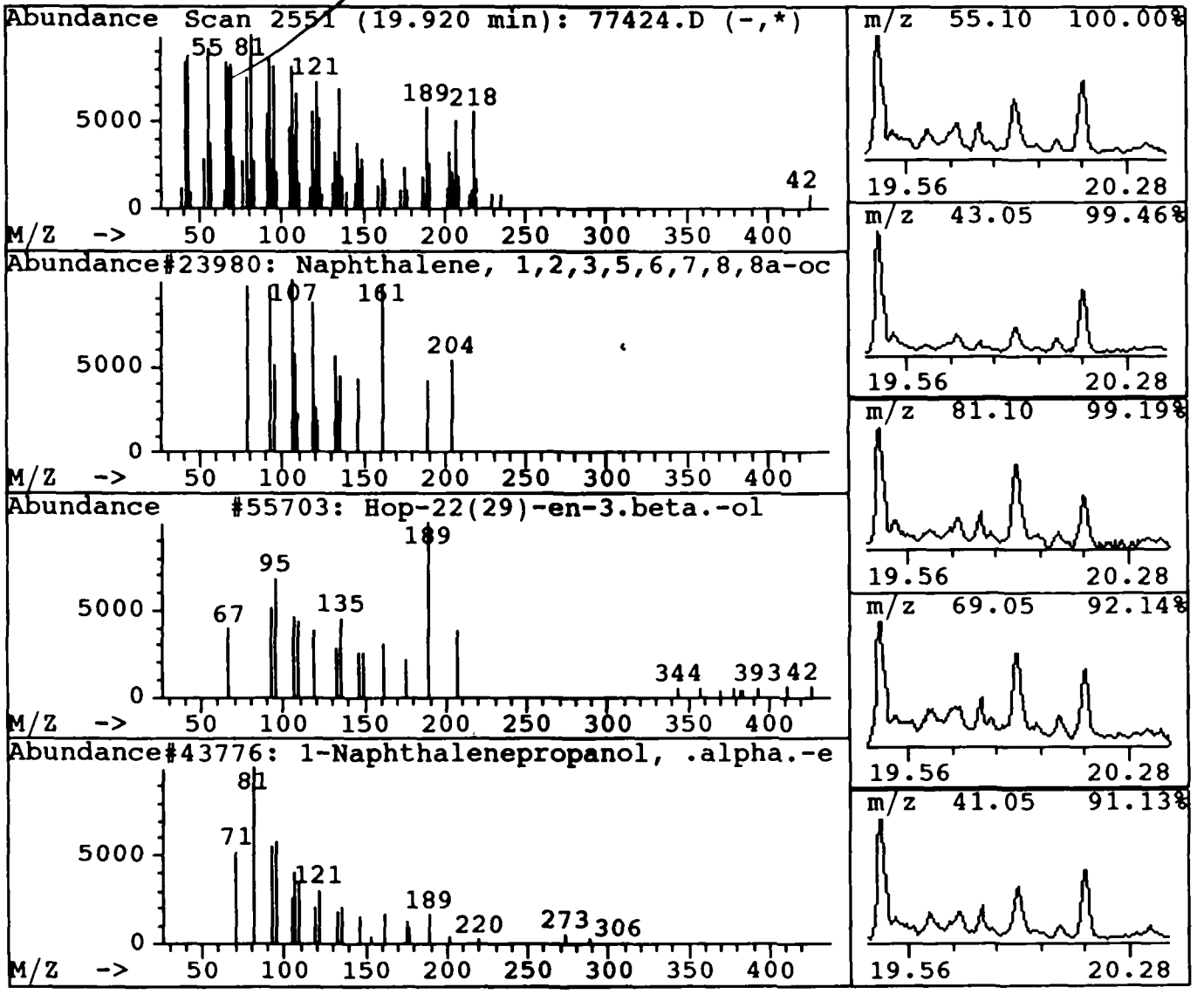
000471

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.92	240.57 ug/mL	758906	CI75 Perylene-d12	126187

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Naphthalene, 1,2,3,5,6,7,8,8a-octah	23980	010219-75-7	60
2	Hop-22(29)-en-3.beta.-ol	55703	058801-23-3	55
3	1-Naphthalenepropanol, .alpha.-ethe	43776	004549-12-6	52
4	Cyclohexane, 1,1,2-trimethyl-3,5-bi	24460	062337-97-7	50
5	4,8-Methanoazulen-9-ol, decahydro-2	28248	004586-22-5	43



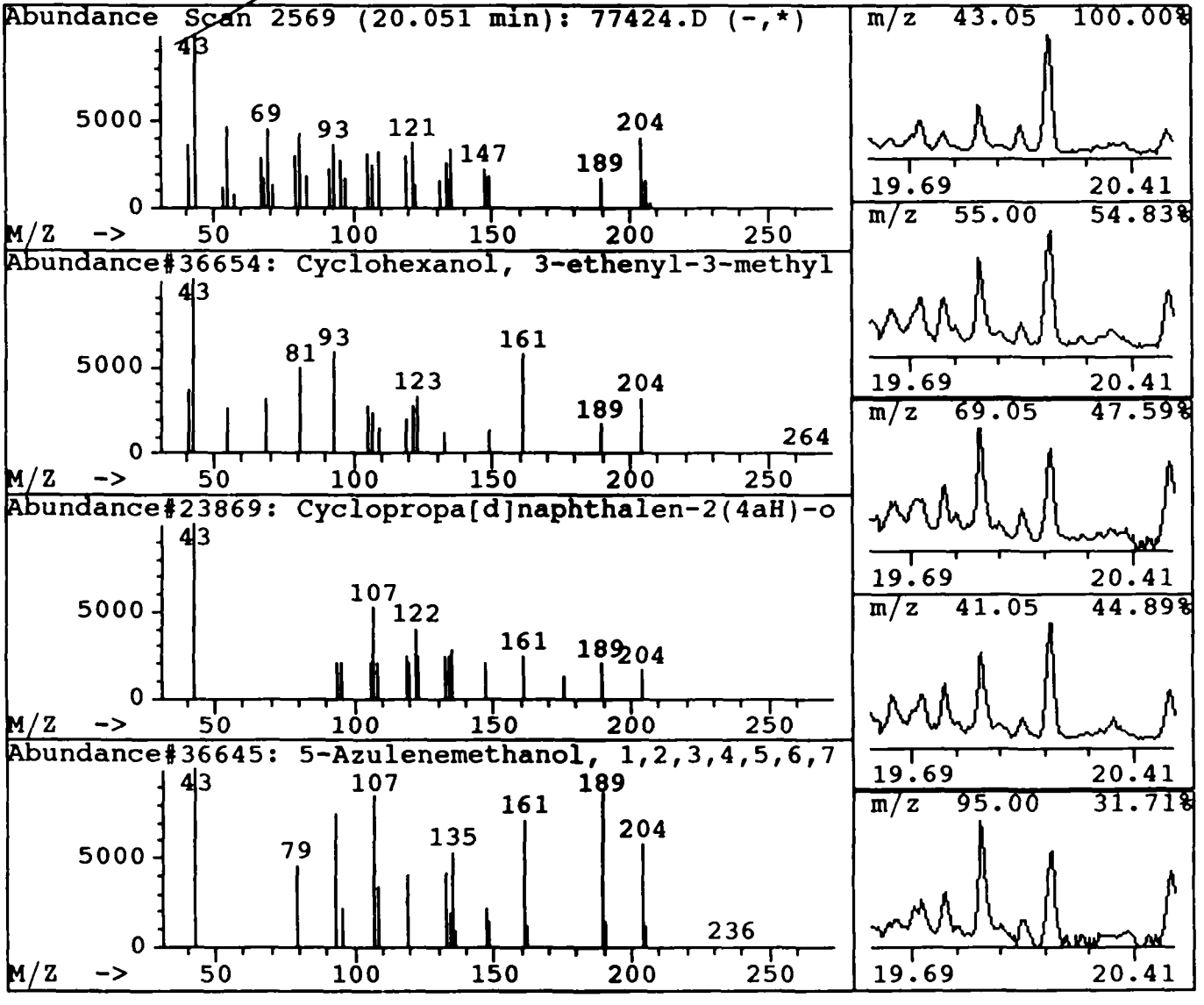
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml*0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.05	37.02 ug/mL	116774	C175 Perylene-d12	126187

Hit# of 7	Tentative ID	Ref#	CAS#	Qual
1	Cyclohexanol, 3-ethenyl-3-methyl-2-	36654	069350-63-6	37
2	Cyclopropa[d]naphthalen-2(4aH)-one,	23869	004677-90-1	37
3	5-Azulenemethanol, 1,2,3,4,5,6,7,8-	36645	000134-28-1	28
4	Cyclohexanol, 3-ethenyl-3-methyl-2-	36650	069350-62-5	27
5	.alpha.-Bisabolol	28211	000515-69-5	14



Tentatively Identified Compound (LSC)

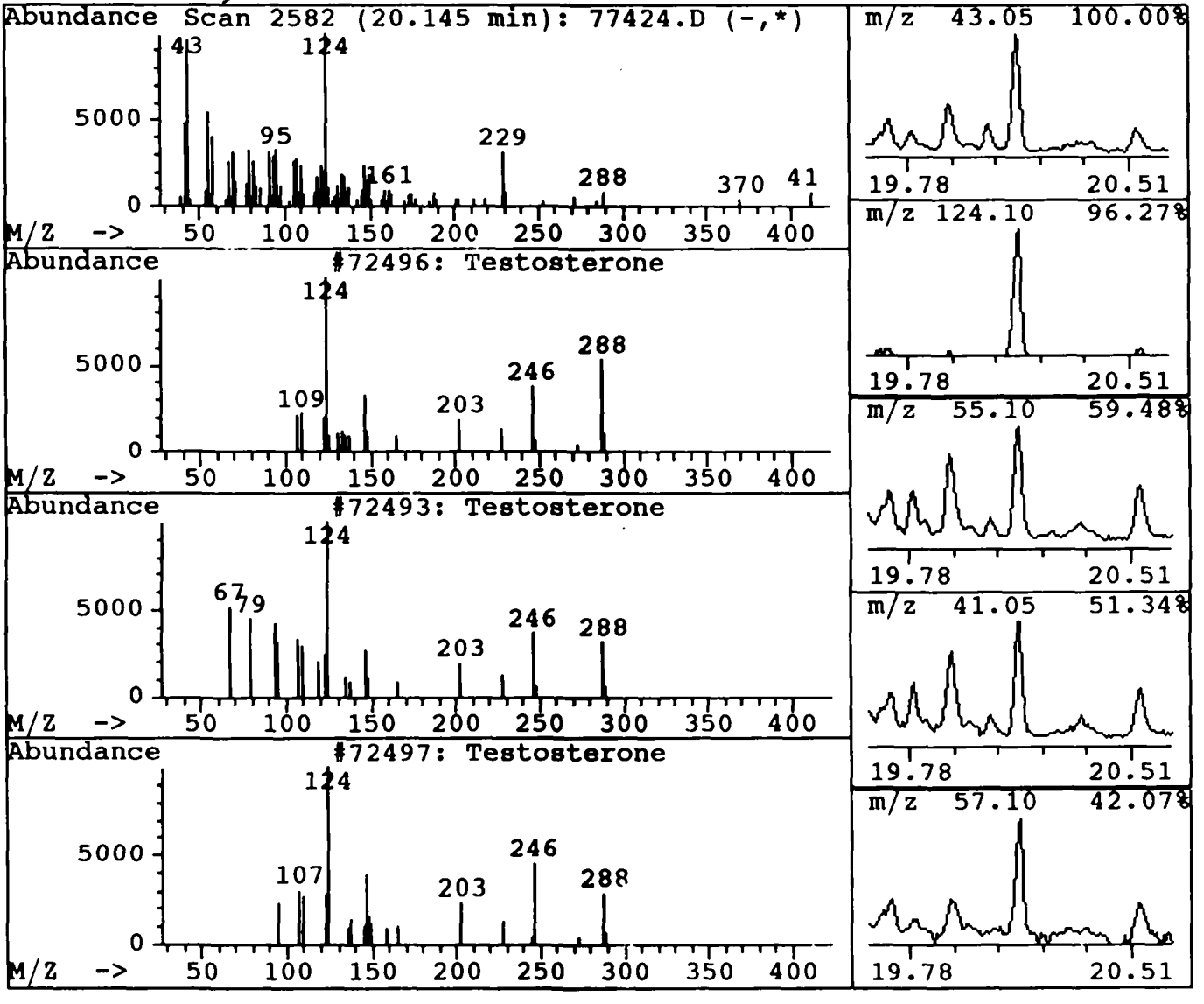
000473

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.15	268.45 ug/mL	846882	CI75 Perylene-d12	126187

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Testosterone	72496	000058-22-0	95
2	Testosterone	72493	000058-22-0	64
3	Testosterone	72497	000058-22-0	64
4	Androst-4-en-3-one, 17-hydroxy-, (1	40900	000604-39-7	58
5	Testosterone	72498	000058-22-0	58



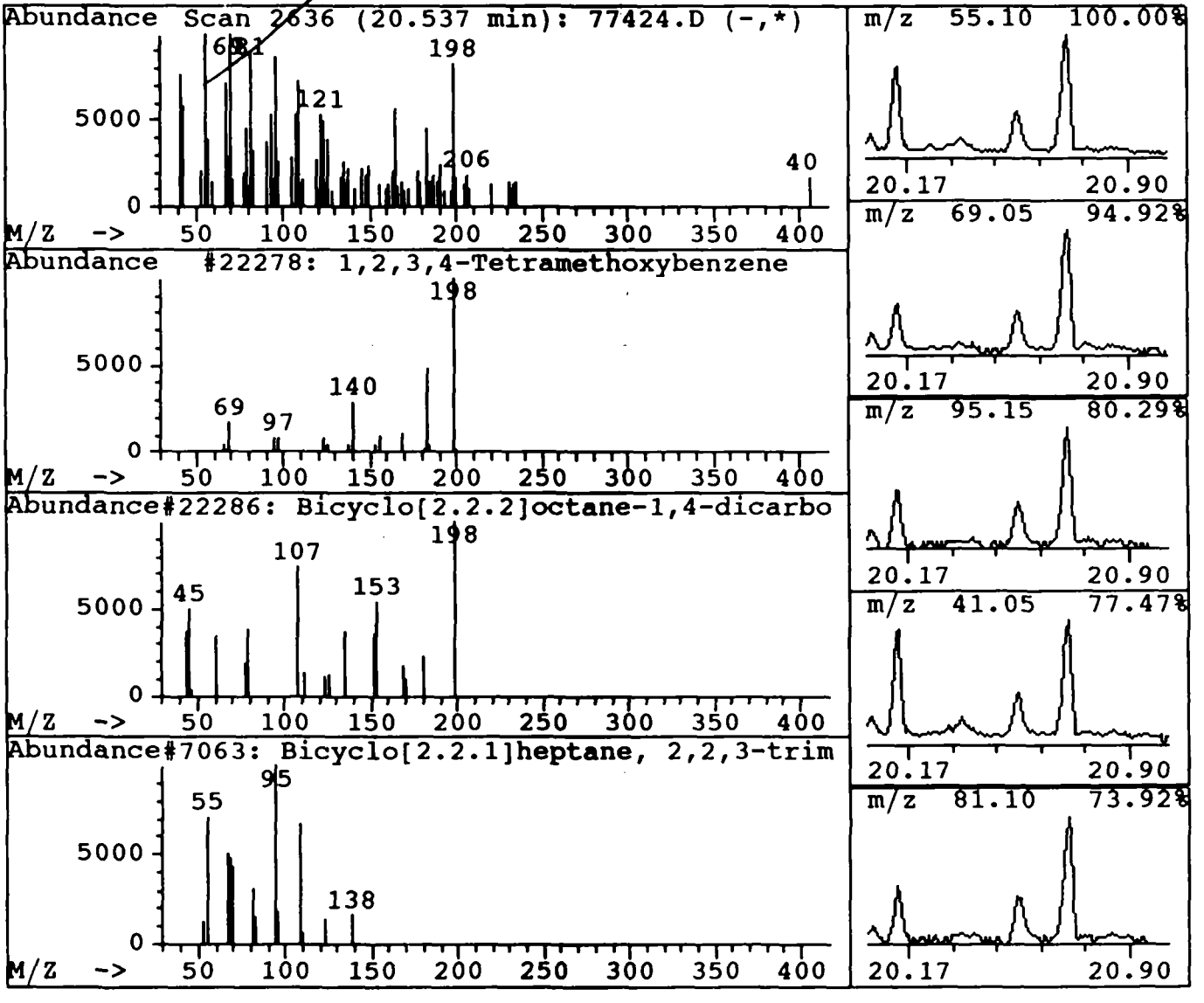
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.54	120.55 ug/mL	380305	CI75 Perylene-d12	126187

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	1,2,3,4-Tetramethoxybenzene	22278	000000-00-0	18
2	Bicyclo[2.2.2]octane-1,4-dicarboxyl	22286	000711-02-4	15
3	Bicyclo[2.2.1]heptane, 2,2,3-trimet	7063	020536-40-7	14
4	1H-Indene, 5-butyl-6-hexyloctahydro	36680	055044-36-5	14
5	Bicyclo[2.2.1]heptane, 2,2,3-trimet	7066	020536-41-8	14



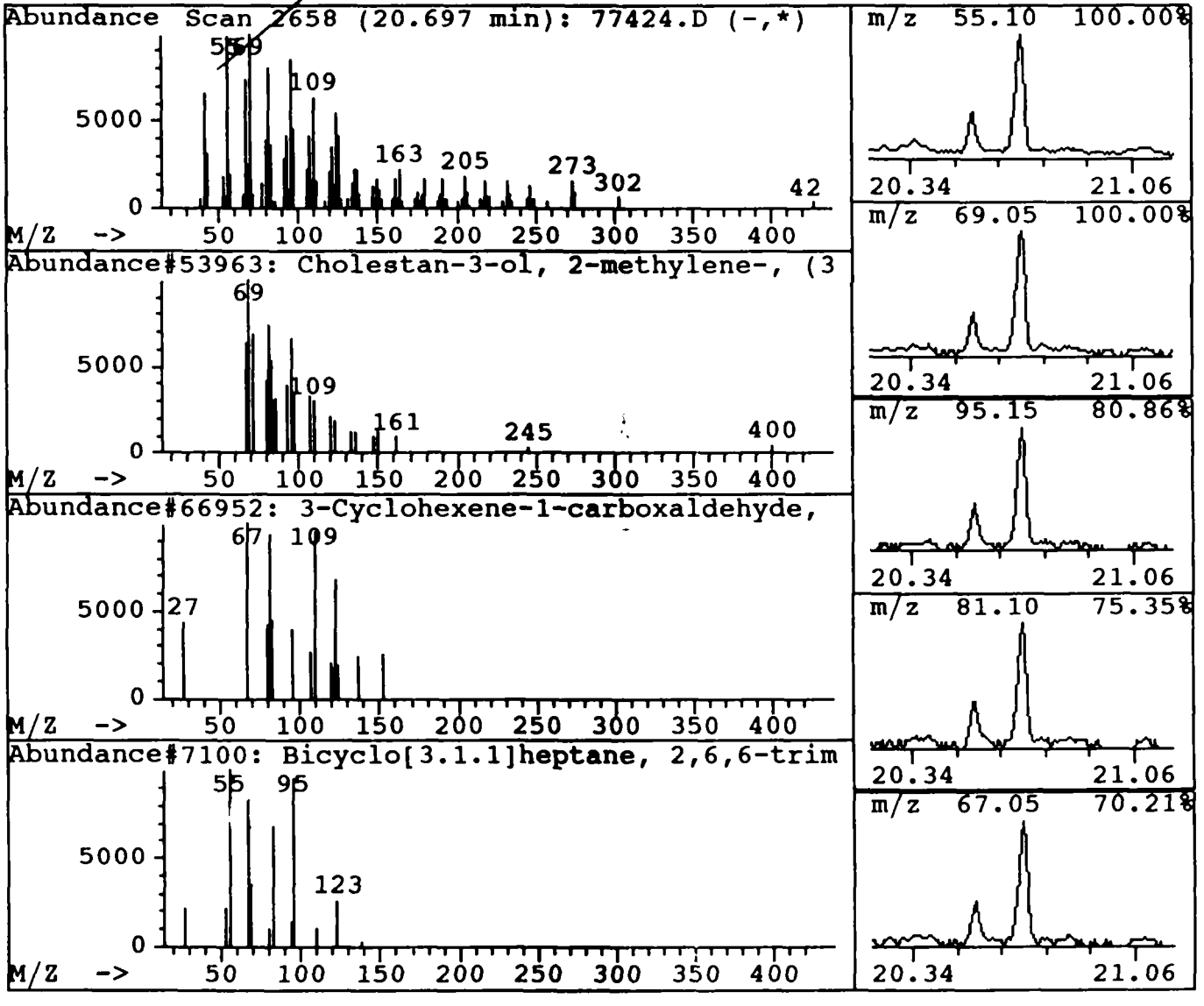
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
20.70	380.64 ug/mL	1200790	C175 Perylene-d12	126187

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Cholestan-3-ol, 2-methylene-, (3.be	53963	022599-96-8	64
2	3-Cyclohexene-1-carboxaldehyde, 1,3	66952	040702-26-9	43
3	Bicyclo[3.1.1]heptane, 2,6,6-trimet	7100	000473-55-2	38
4	Bicyclo[4.1.0]heptane, 3-methyl-	2354	041977-47-3	38
5	Squalene	54650	007683-64-9	35



Tentatively Identified Compound (LSC)

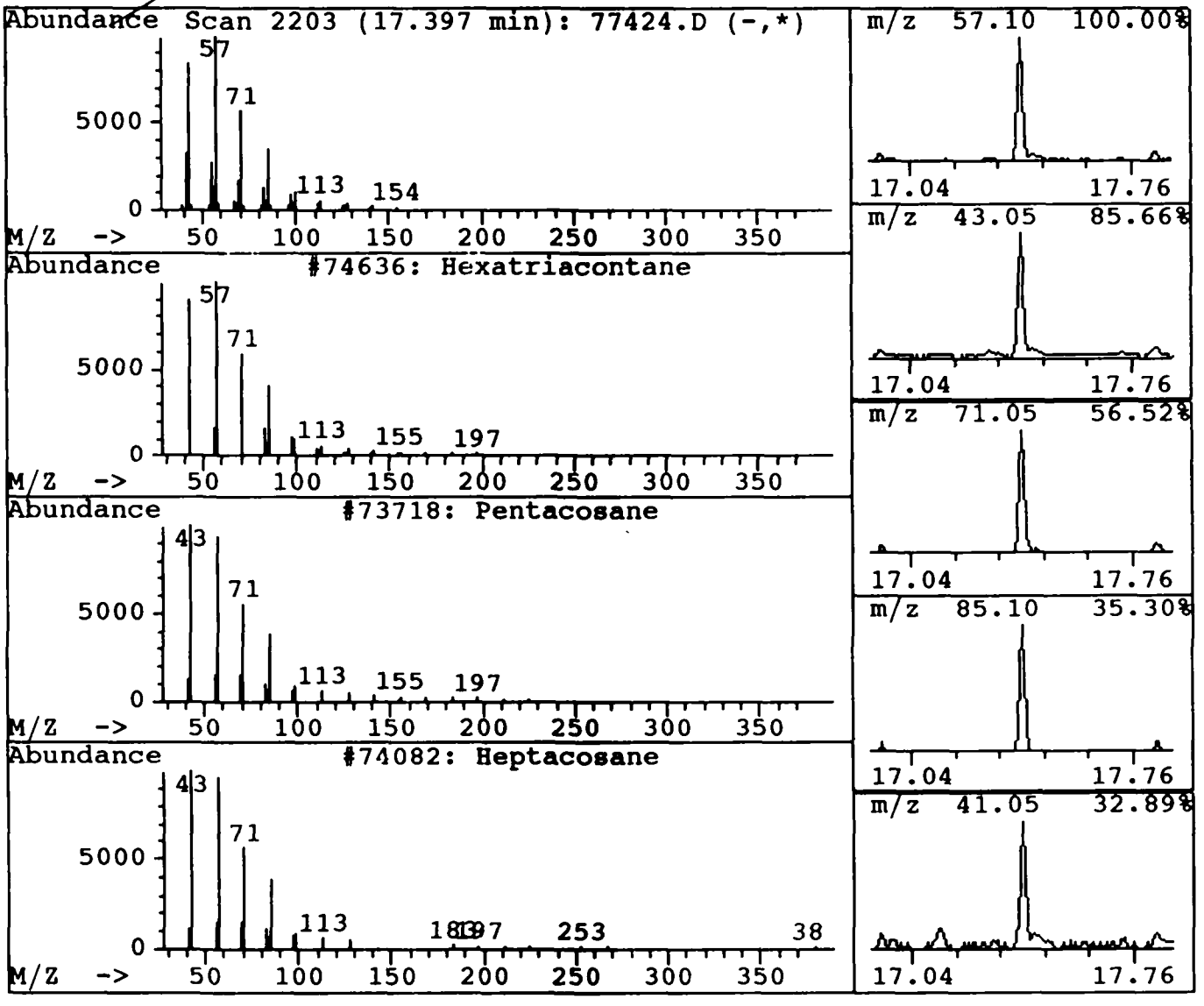
000476

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
17.40	89.58 ug/mL	282605	CI75 Perylene-d12	126187

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexatriacontane	74636	000630-06-8	91
2	Pentacosane	73718	000629-99-2	91
3	Heptacosane	74082	000593-49-7	91
4	Pentatriacontane	58743	000630-07-9	91
5	Nonacosane	54526	000630-03-5	91



Tentatively Identified Compound (LSC)

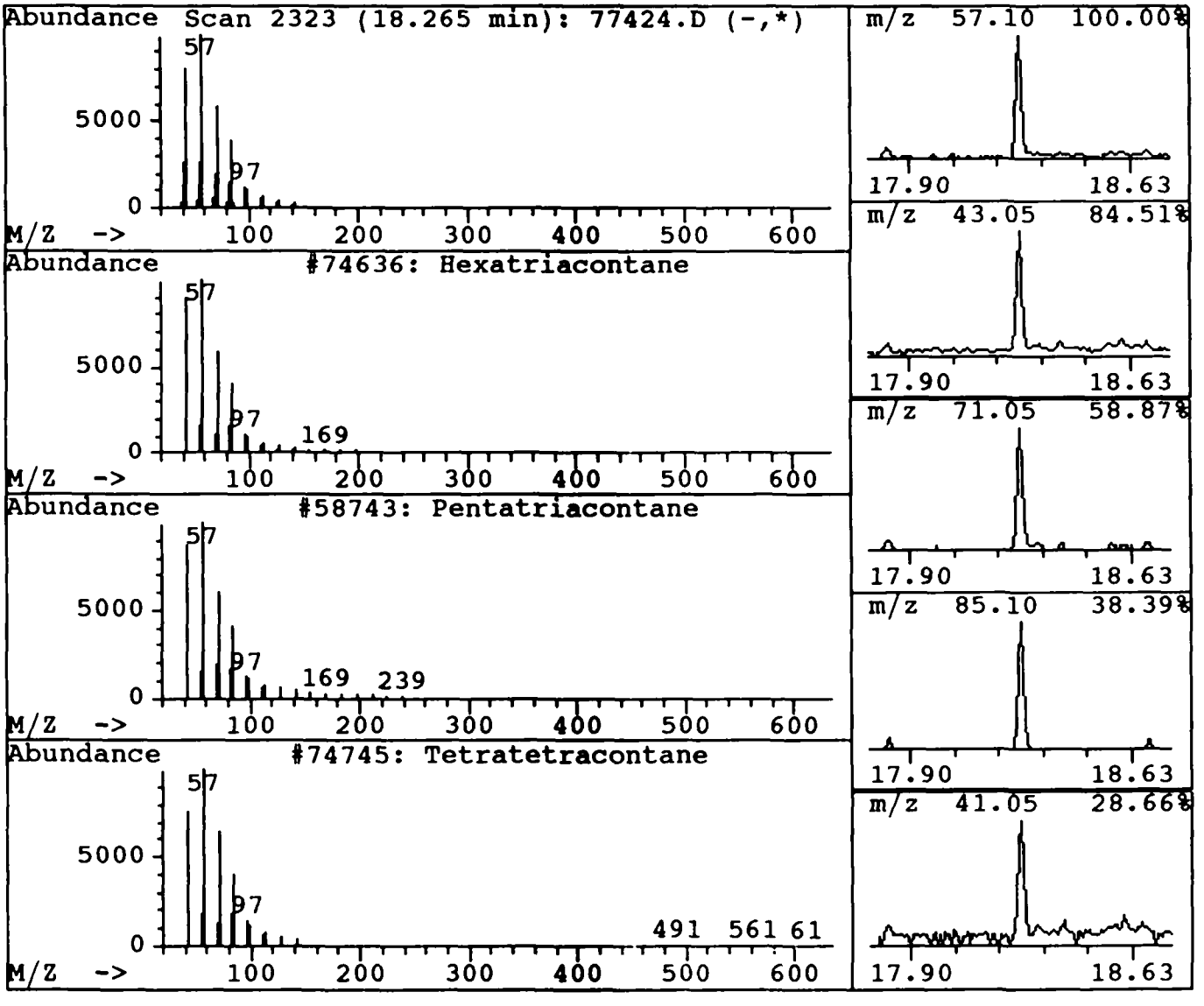
000477

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
18.27	99.34 ug/mL	313388	CI75 Perylene-d12	126187

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Hexatriacontane	74636	000630-06-8	91
2	Pentatriacontane	58743	000630-07-9	91
3	Tetratetracontane	74745	007098-22-8	91
4	Triacontane	55461	000638-68-6	91
5	Dotriacontane	74490	000544-85-4	91



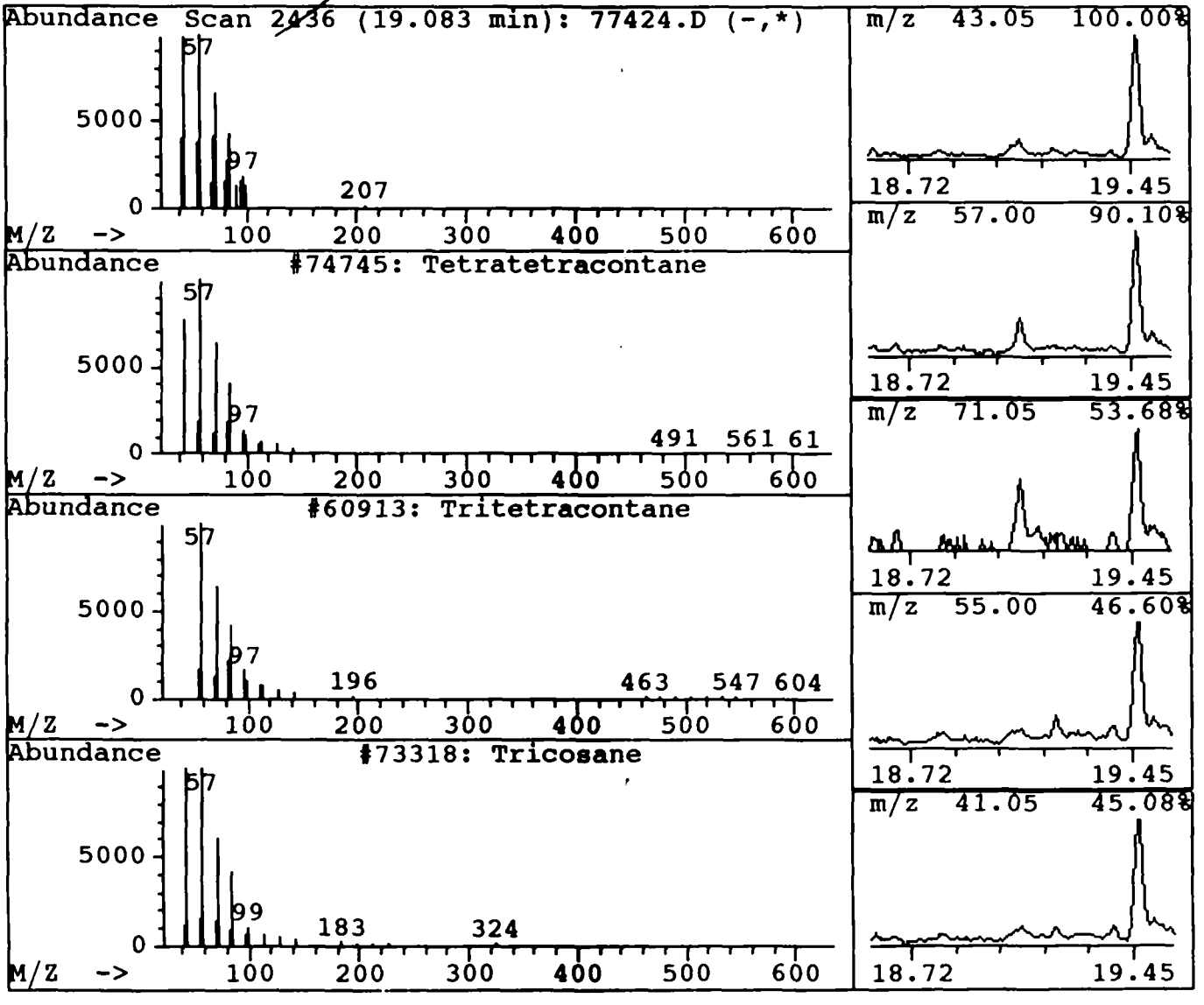
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:55
Data File: C:\CHEMPC\DATA\040496\77424.D
Name: FESOO EXT033096
Misc: HP6*USEPA*15411.01*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
19.08	62.99 ug/mL	198721	CI75 Perylene-d12	126187

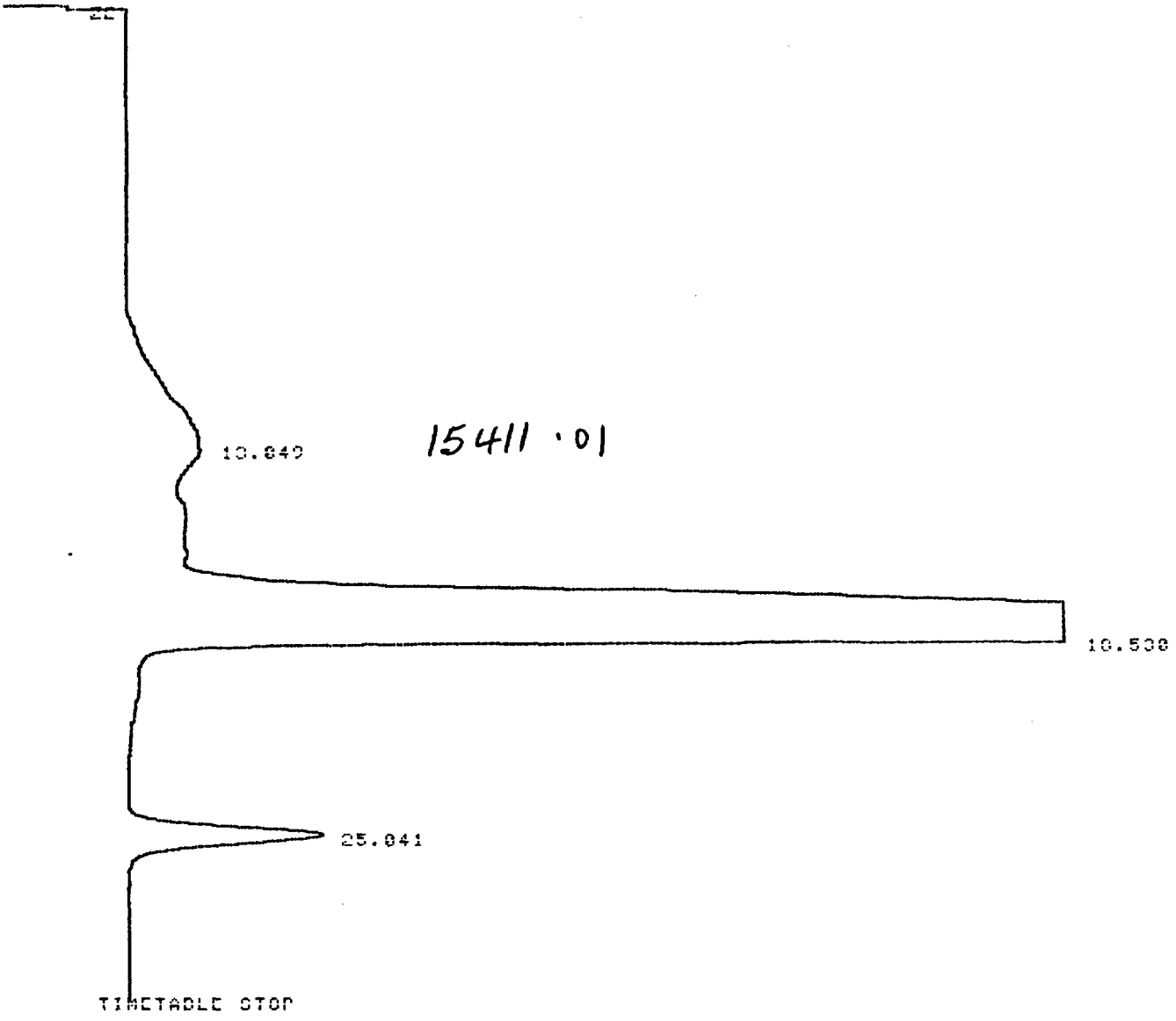
Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Tetratetracontane	74745	007098-22-8	72
2	Tritetracontane	60913	007098-21-7	72
3	Tricosane	73318	000638-67-5	53
4	Dotriacontane	74491	000544-85-4	53
5	Triacontane	55461	000638-68-6	53



RUN # 003 APR 1, 1996 09:06:52

START Source

000479



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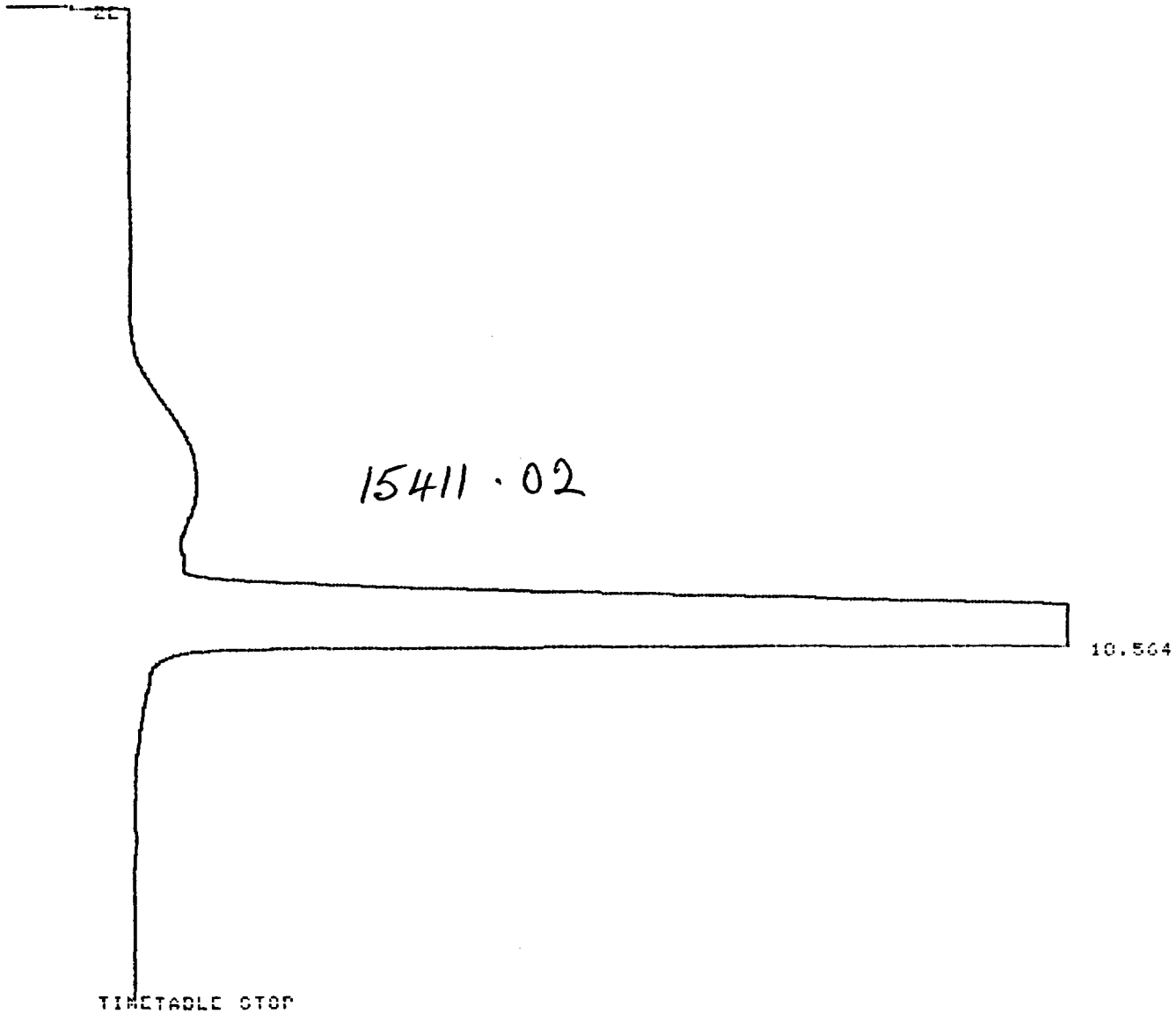

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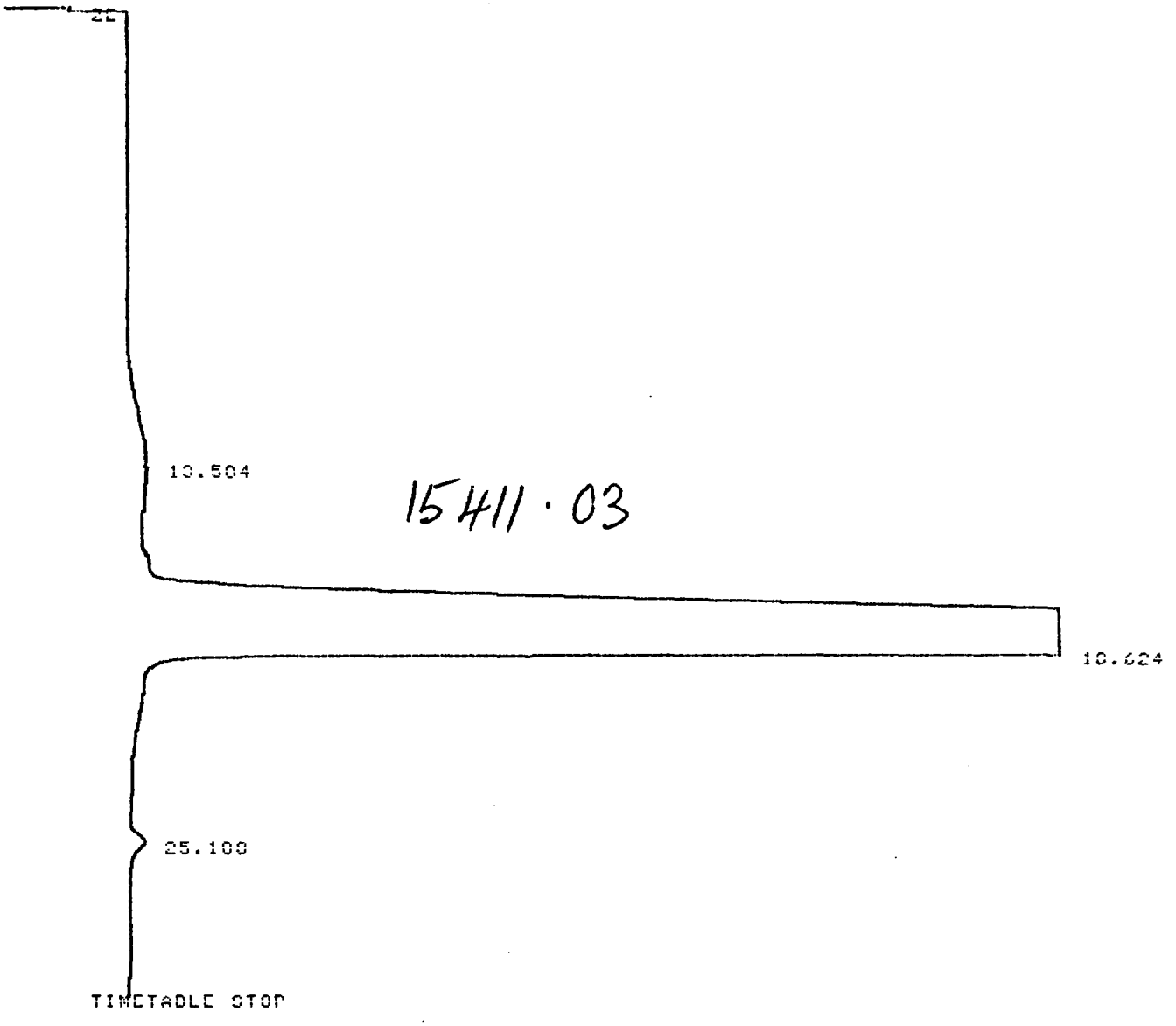

15411.03

* RUN # 006 APR 1, 1996 16:30:50

START Source

22

15411.04

10.724

25.469

TIMETABLE STOP

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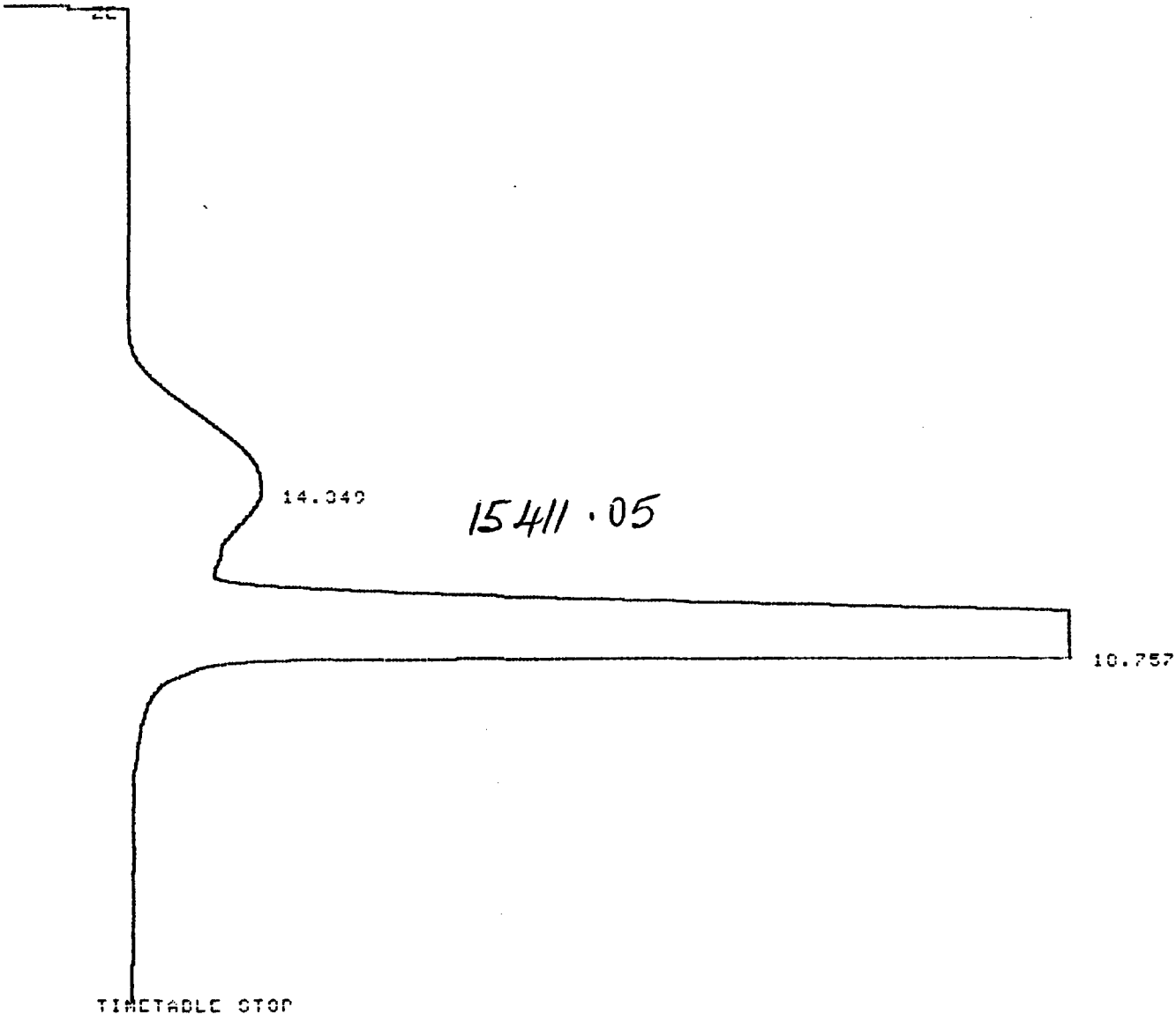

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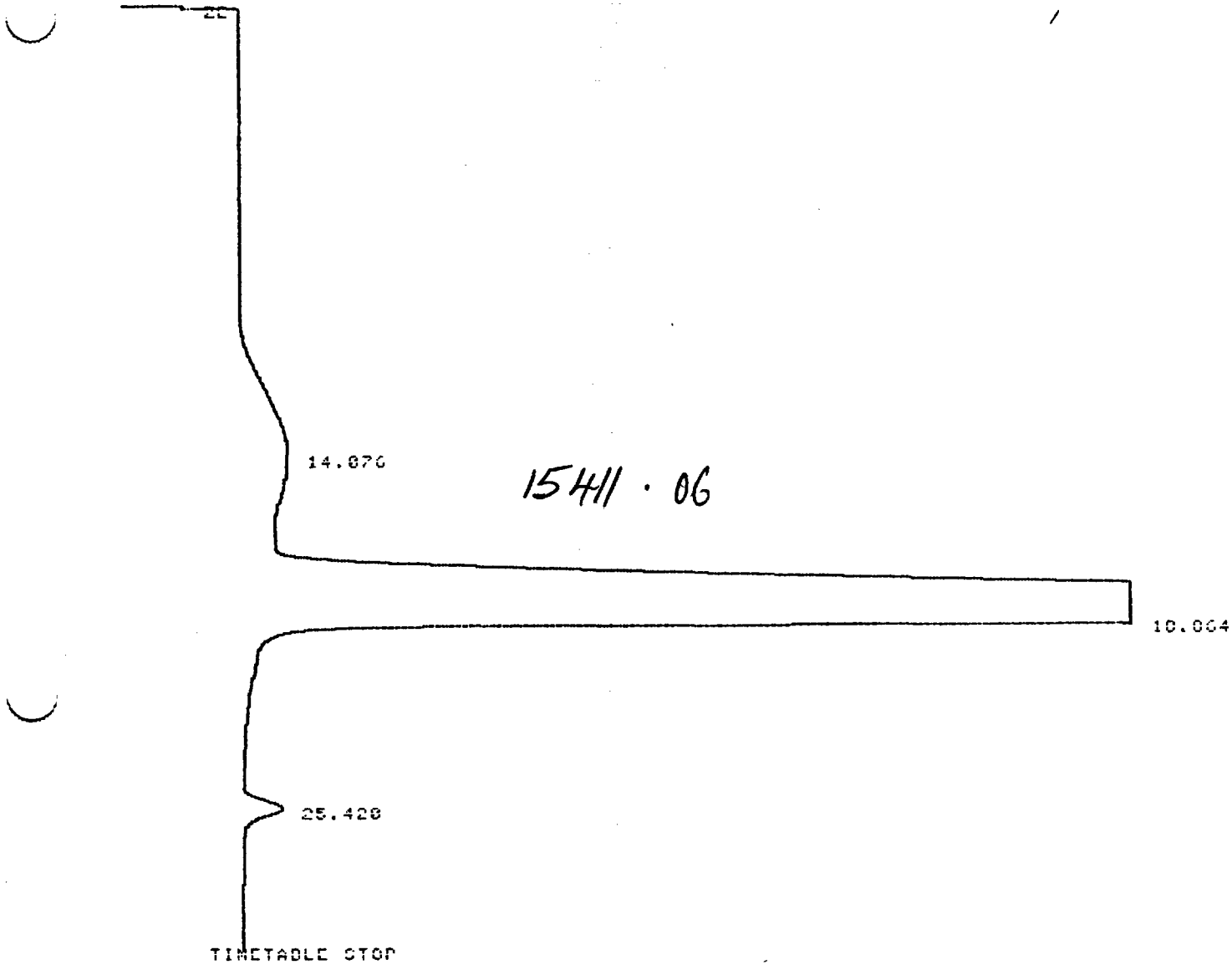

15411 · 06

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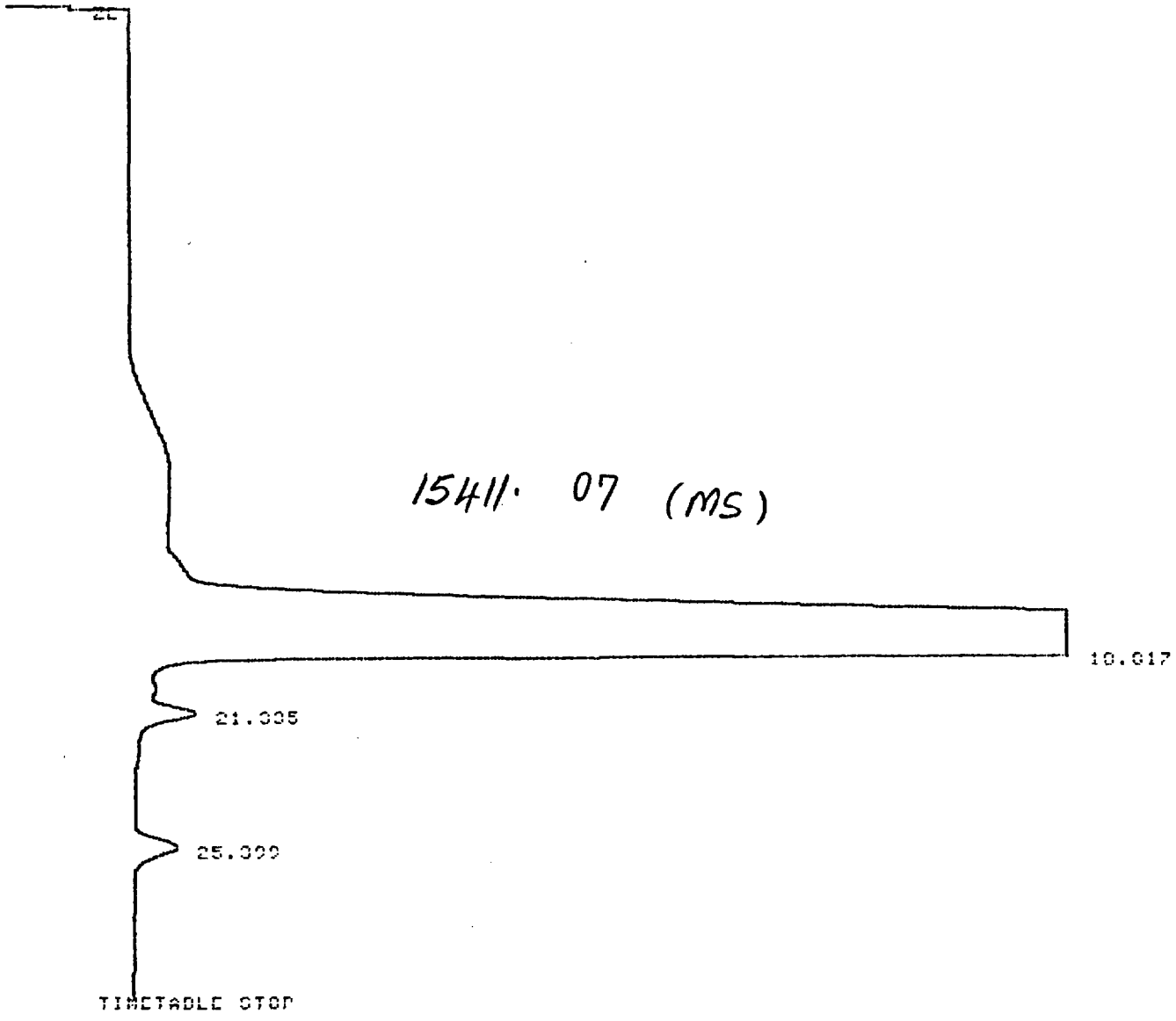

15411.07 (MS)

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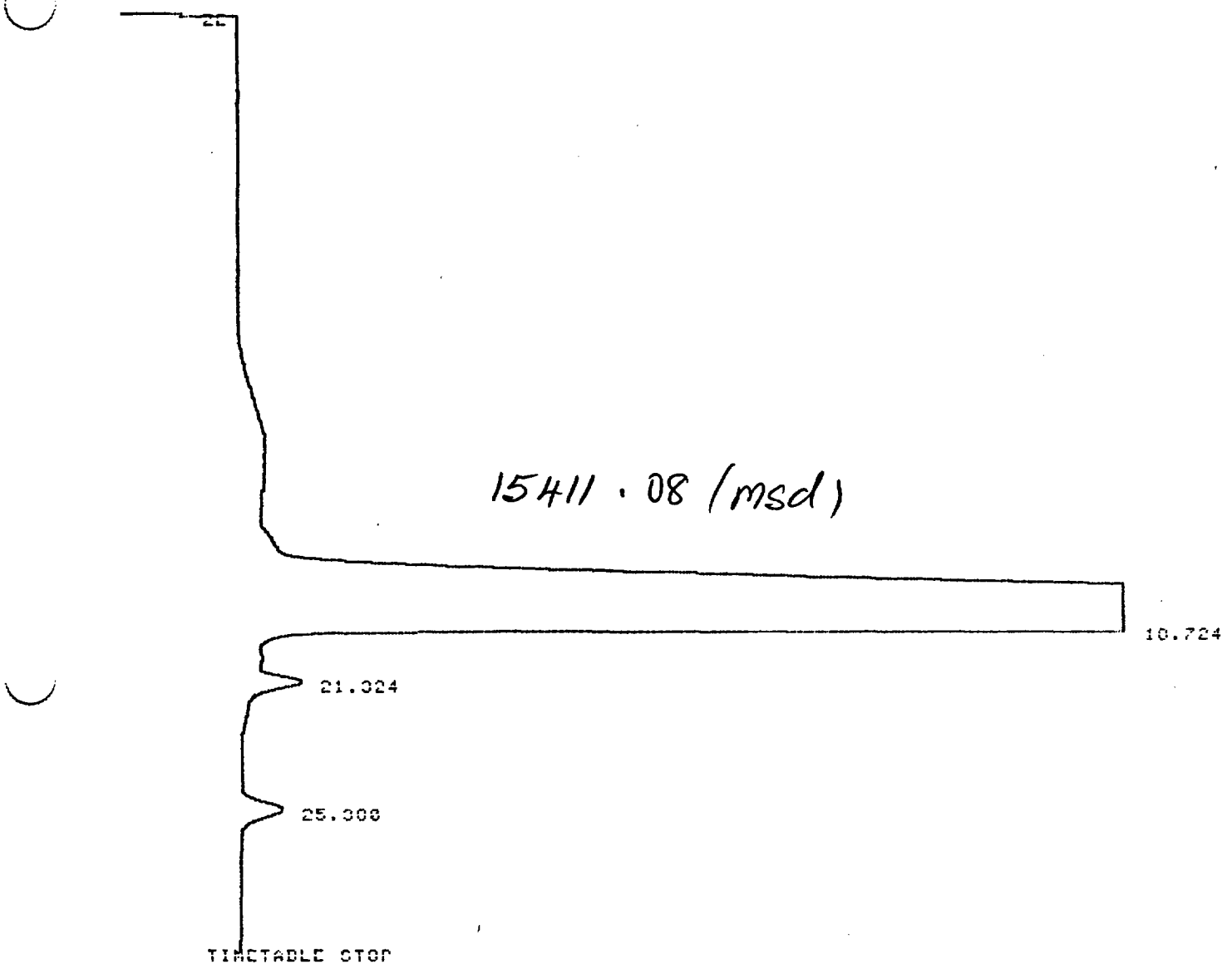

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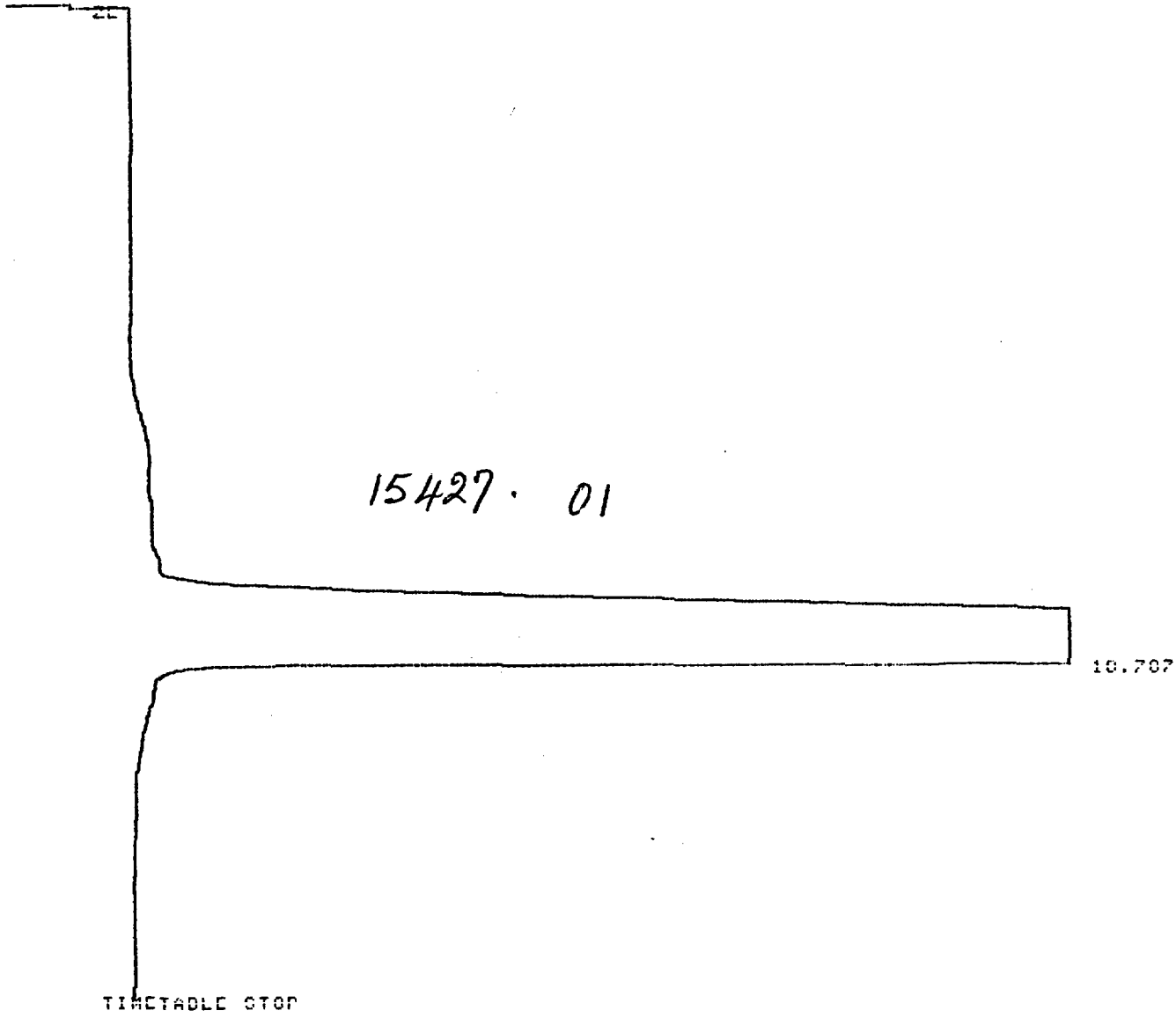

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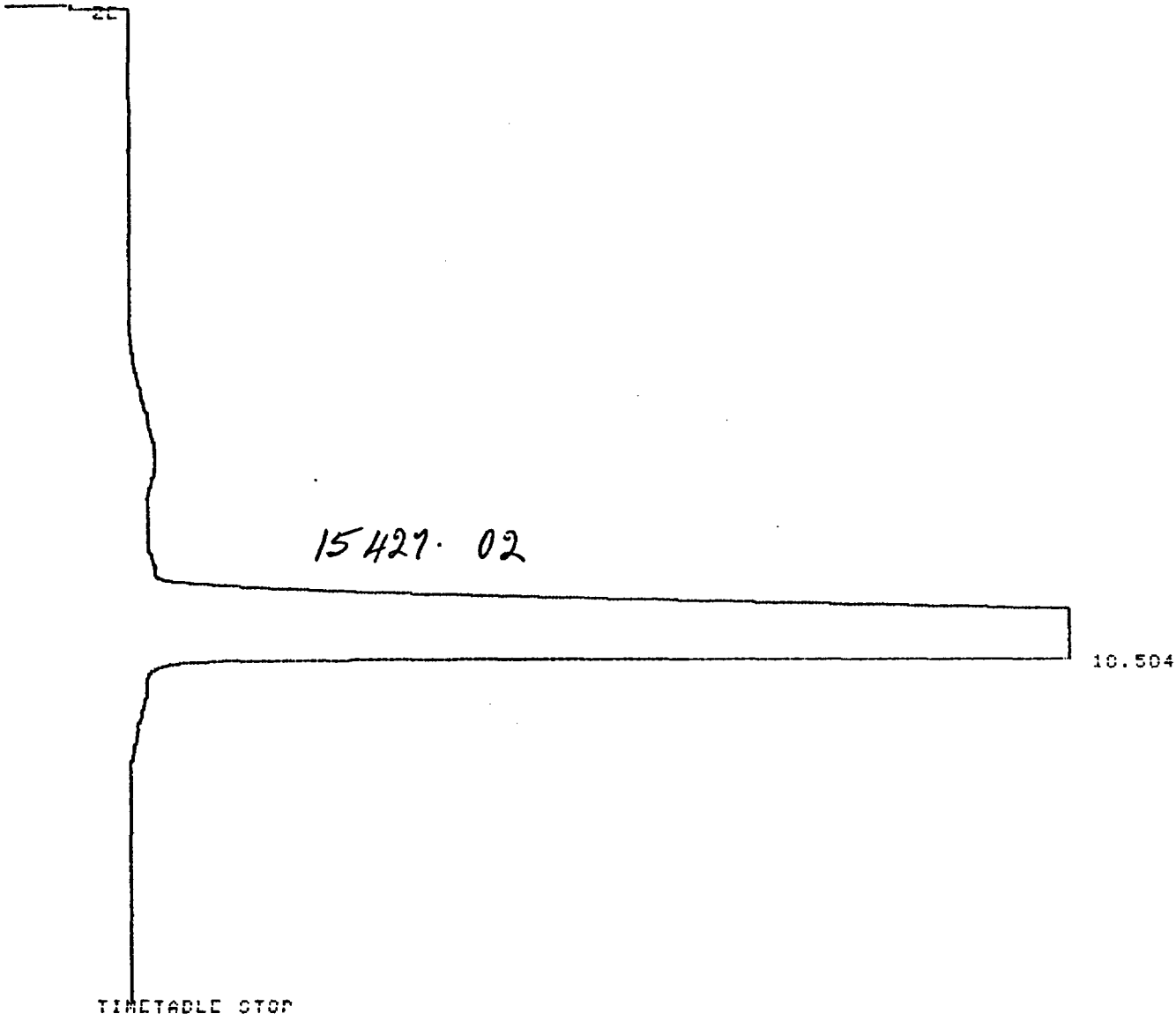
START Source

000488



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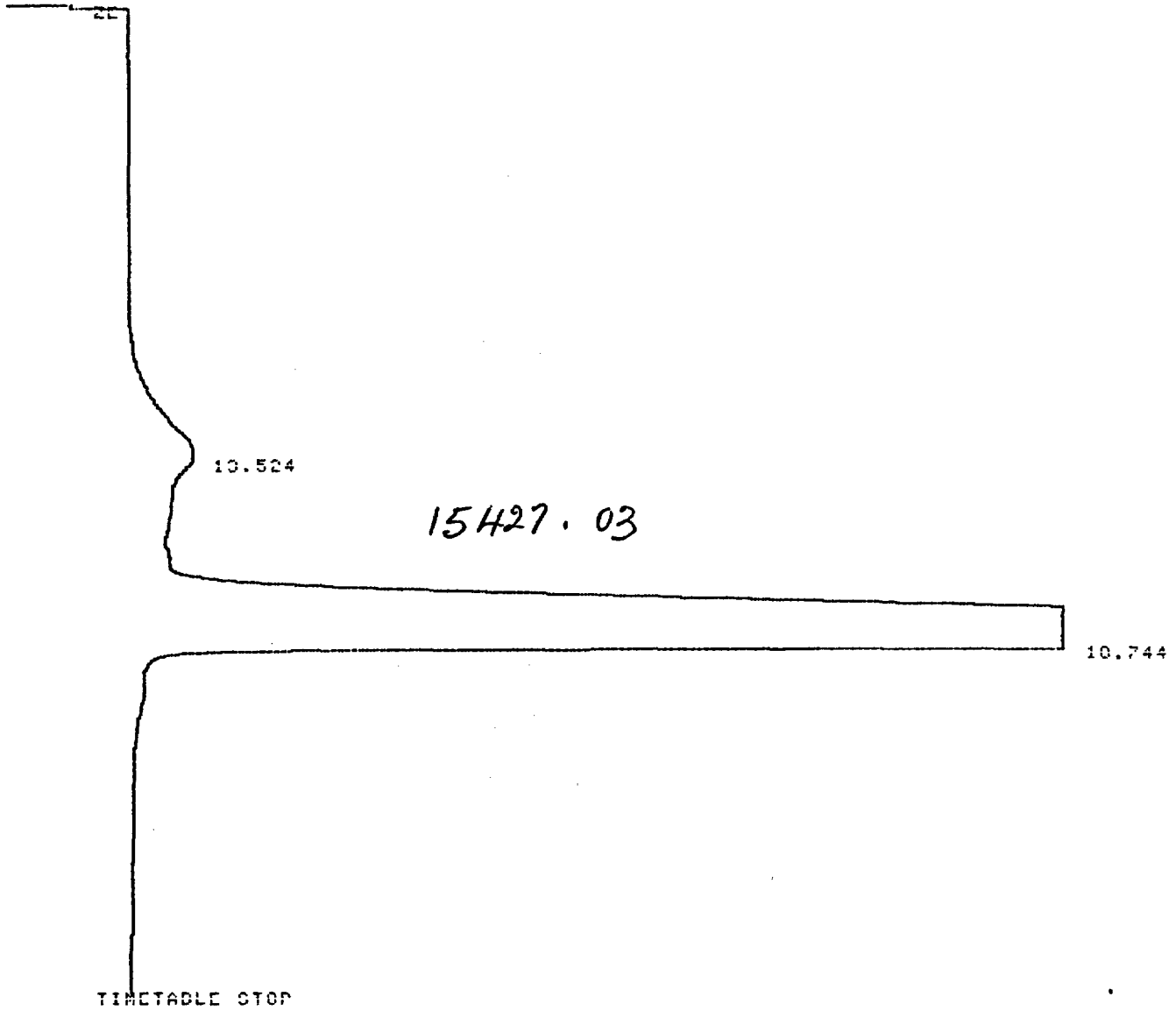

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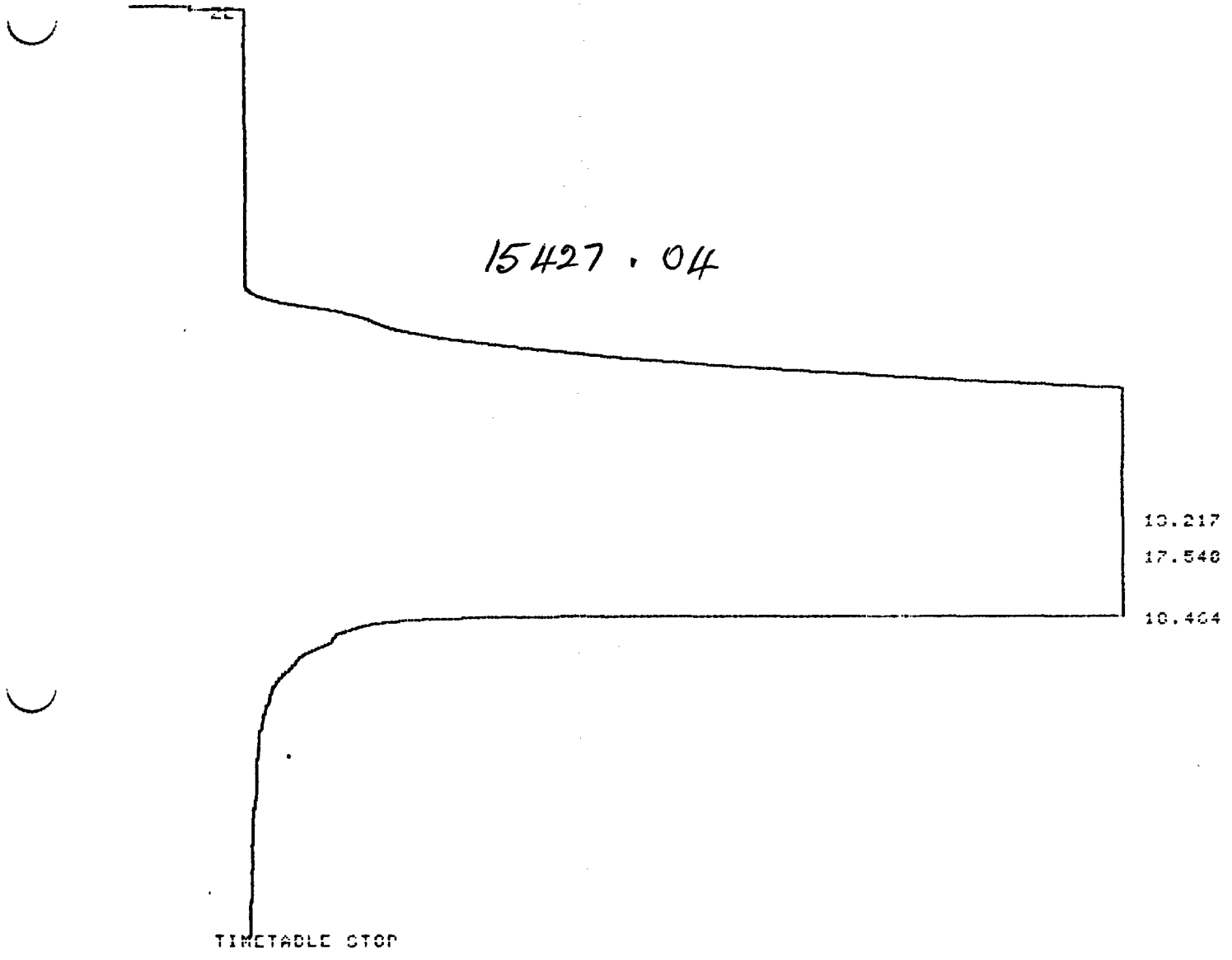

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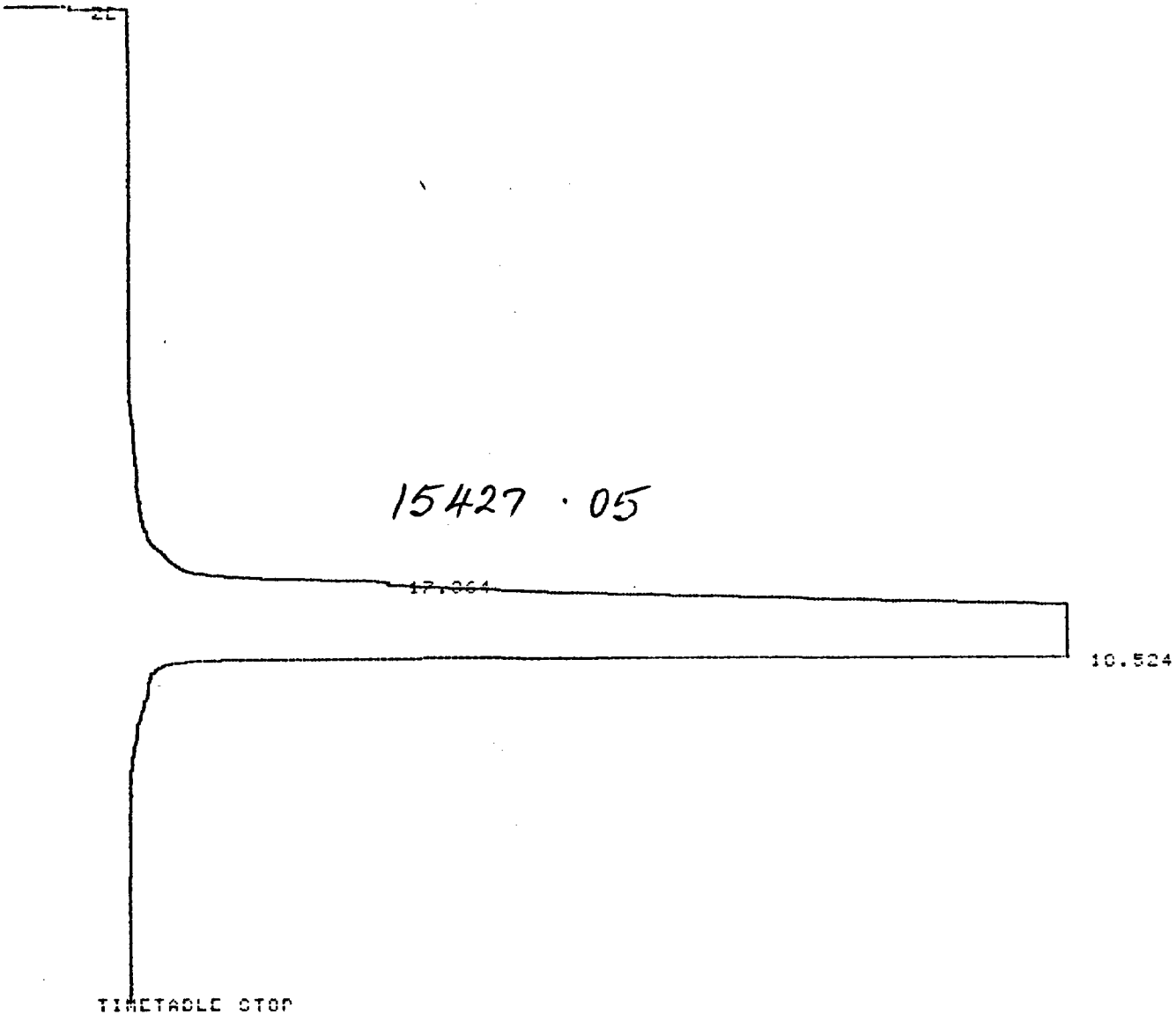
START Course



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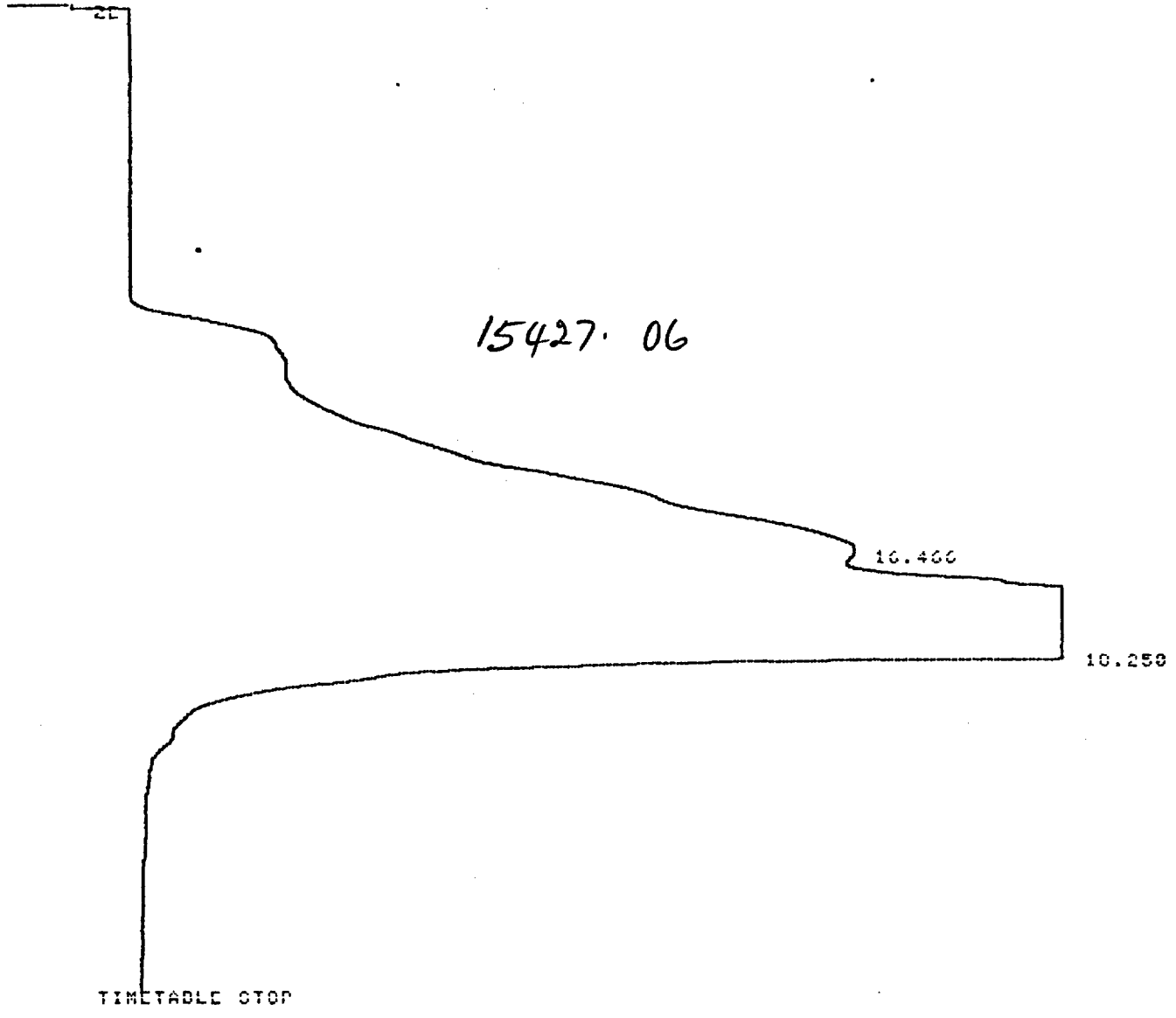

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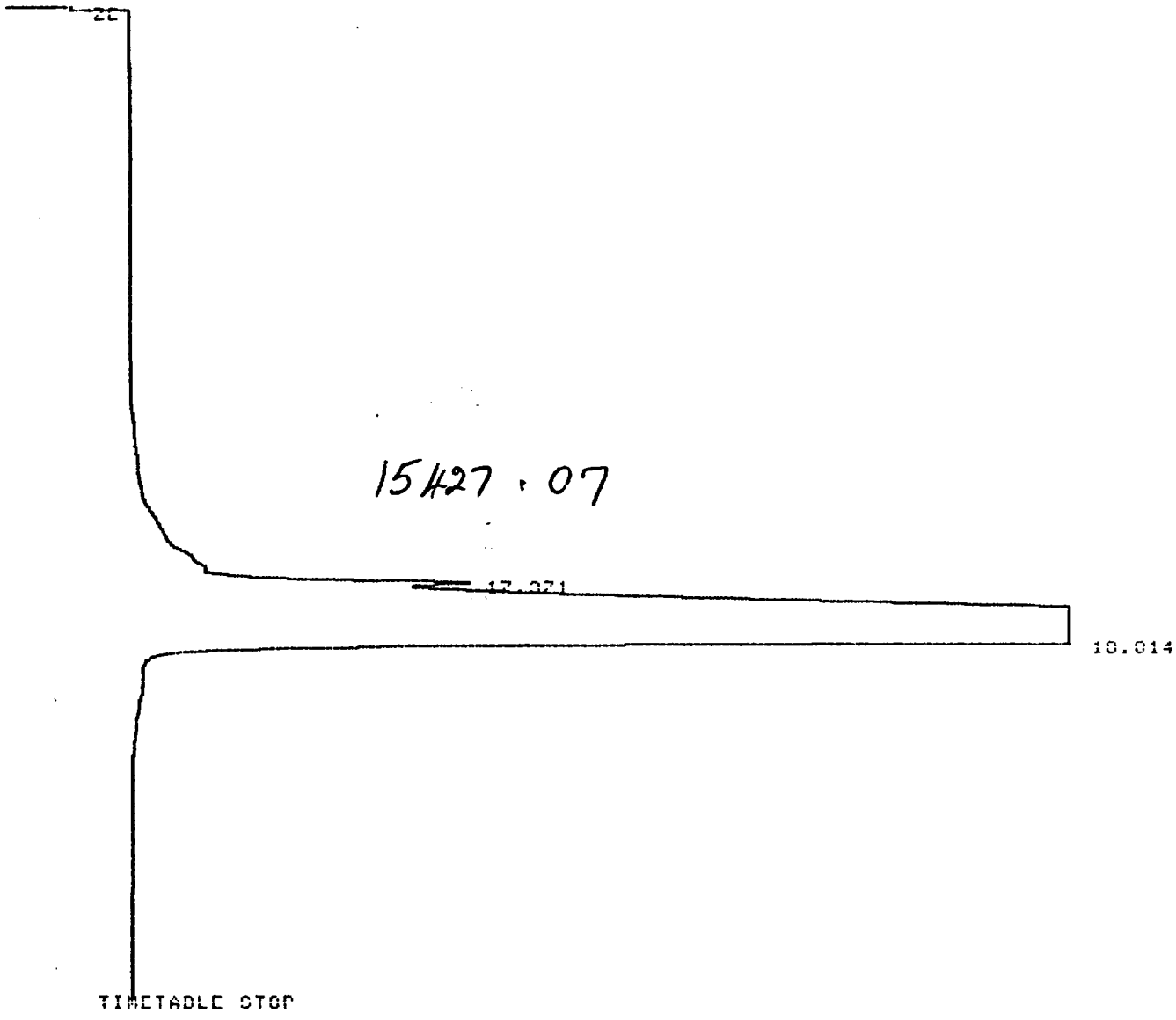
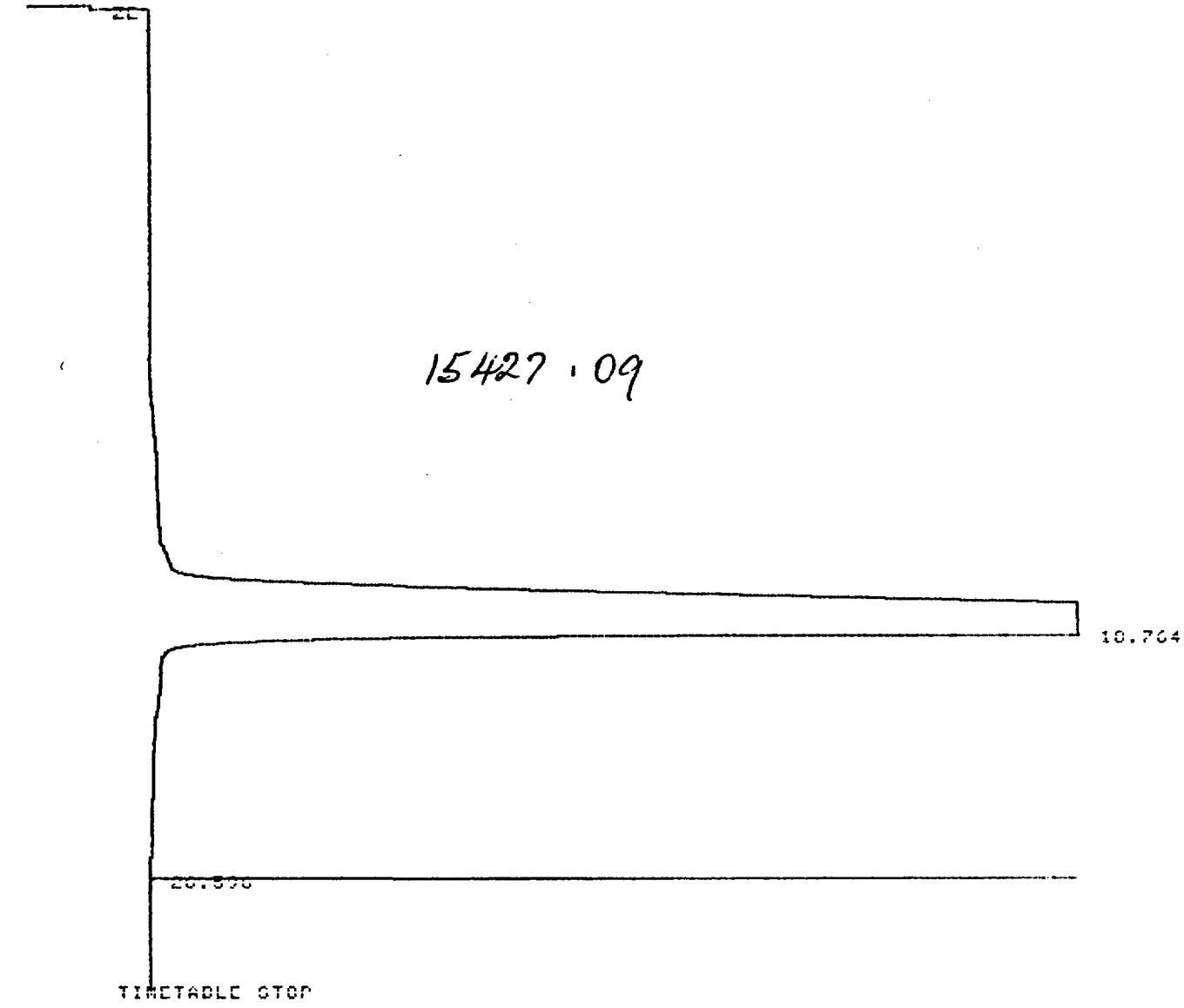


000495

* RUN # 000 APR 2, 1996 16:55:05

START Source



6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP6 Calibration Date(s): 03/31/96 03/31/96

Calibration Times: 1250 1446

LAB FILE ID: RRF20 = 77312 RRF50 = 77311
RRF80 = 77313 RRF120= 77314 RRF160= 77315

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol	*	1.687	1.496	1.484	1.382	1.261	1.462	10.8*
bis(2-Chloroethyl)ether	*	1.497	1.307	1.287	1.185	1.094	1.274	11.9*
2-Chlorophenol	*	1.404	1.314	1.370	1.388	1.286	1.352	3.7*
1,3-Dichlorobenzene	*	1.500	1.426	1.459	1.478	1.402	1.453	2.7*
1,4-Dichlorobenzene	*	1.494	1.421	1.474	1.515	1.453	1.471	2.5*
1,2-Dichlorobenzene	*	1.411	1.343	1.377	1.392	1.309	1.366	3.0*
2-Methylphenol	*	1.143	1.099	1.148	1.139	1.028	1.111	4.5*
2,2'-oxybis(1-Chloropropane		1.912	1.747	1.774	1.676	1.508	1.723	8.6
4-Methylphenol	*	1.219	1.135	1.192	1.195	1.058	1.160	5.6*
N-Nitroso-di-n-propylamine	*	1.056	0.972	1.021	0.980	0.850	0.976	8.0*
Hexachloroethane	*	0.658	0.630	0.637	0.623	0.594	0.628	3.7*
Nitrobenzene	*	0.478	0.444	0.443	0.457	0.432	0.451	3.9*
Isophorone	*	0.872	0.827	0.872	0.913	0.838	0.864	3.9*
2-Nitrophenol	*	0.237	0.246	0.243	0.257	0.248	0.246	3.0*
2,4-Dimethylphenol	*	0.395	0.390	0.392	0.403	0.377	0.391	2.4*
bis(2-Chloroethoxy)methane	*	0.550	0.522	0.538	0.545	0.516	0.534	2.7*
2,4-Dichlorophenol	*	0.332	0.333	0.351	0.380	0.353	0.350	5.6*
1,2,4-Trichlorobenzene	*	0.365	0.357	0.368	0.394	0.384	0.374	4.0*
Naphthalene	*	1.092	1.076	1.135	1.189	1.153	1.129	4.1*
4-Chloroaniline		0.439	0.474	0.507	0.538	0.486	0.489	7.6
Hexachlorobutadiene		0.214	0.213	0.219	0.229	0.221	0.219	2.9
4-Chloro-3-methylphenol	*	0.350	0.337	0.359	0.367	0.333	0.349	4.1*
2-Methylnaphthalene	*	0.733	0.711	0.732	0.776	0.709	0.732	3.7*
Hexachlorocyclopentadiene		0.406	0.459	0.471	0.530	0.568	0.487	13.0
2,4,6-Trichlorophenol	*	0.438	0.418	0.431	0.470	0.462	0.444	4.9*
2,4,5-Trichlorophenol	*		0.457	0.450	0.481	0.486	0.468	3.8*
2-Chloronaphthalene	*	1.242	1.239	1.243	1.355	1.349	1.286	4.7*
2-Nitroaniline			0.427	0.440	0.460	0.442	0.442	3.1
Dimethylphthalate		1.328	1.294	1.344	1.437	1.346	1.350	3.9
Acenaphthylene	*	1.893	1.826	1.854	1.951	1.905	1.886	2.6*
2,6-Dinitrotoluene	*	0.286	0.282	0.288	0.322	0.300	0.296	5.5*
3-Nitroaniline			0.251	0.273	0.303	0.286	0.278	7.9
Acenaphthene	*	1.099	1.066	1.100	1.186	1.146	1.119	4.2*
2,4-Dinitrophenol			0.172	0.196	0.225	0.213	0.202	11.4
4-Nitrophenol			0.155	0.168	0.193	0.174	0.172	9.2
Dibenzofuran	*	1.550	1.509	1.573	1.667	1.590	1.578	3.7*
2,4-Dinitrotoluene	*	0.365	0.365	0.378	0.391	0.364	0.373	3.2*

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP6 Calibration Date(s): 03/31/96 03/31/96

Calibration Times: 1250 1446

LAB FILE ID: RRF20 = 77312 RRF50 = 77311
RRF80 = 77313 RRF120= 77314 RRF160= 77315

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Diethylphthalate		1.254	1.190	1.282	1.316	1.217	1.252	4.0
4-Chlorophenyl-phenylether	*	0.576	0.552	0.572	0.613	0.584	0.579	3.8*
Fluorene	*	1.163	1.133	1.186	1.240	1.196	1.184	3.4*
4-Nitroaniline			0.264	0.290	0.313	0.291	0.290	6.9
4,6-Dinitro-2-methylphenol			0.170	0.182	0.200	0.202	0.188	8.1
N-Nitrosodiphenylamine (1)		0.567	0.566	0.614	0.631	0.620	0.600	5.1
4-Bromophenyl-phenylether	*	0.270	0.278	0.280	0.297	0.291	0.283	3.8*
Hexachlorobenzene	*	0.297	0.300	0.298	0.319	0.304	0.304	3.0*
Pentachlorophenol	*		0.162	0.171	0.196	0.192	0.180	9.1*
Phenanthrene	*	1.045	1.039	1.064	1.154	1.138	1.088	5.0*
Anthracene	*	1.029	1.041	1.085	1.137	1.109	1.080	4.2*
Carbazole		0.823	0.858	0.889	0.954	0.951	0.895	6.4
Di-n-butylphthalate		1.257	1.325	1.380	1.476	1.484	1.384	7.1
Fluoranthene	*	0.830	0.869	0.860	0.913	0.965	0.887	5.9*
Pyrene	*	2.111	1.826	2.133	2.215	2.049	2.067	7.1*
Butylbenzylphthalate		0.857	0.831	0.953	1.027	1.015	0.937	9.6
3,3'-Dichlorobenzidine		0.257	0.263	0.317	0.357	0.356	0.310	15.6
Benzo(a)anthracene	*	1.241	1.188	1.274	1.366	1.333	1.280	5.6*
Chrysene	*	1.138	1.073	1.100	1.156	1.131	1.120	2.9*
bis(2-Ethylhexyl)phthalate		0.885	0.923	0.988	1.131	1.133	1.012	11.4
Di-n-octylphthalate		1.755	1.916	1.928	2.268	2.192	2.012	10.6
Benzo(b)fluoranthene	*	1.250	1.239	1.323	1.339	1.330	1.296	3.7*
Benzo(k)fluoranthene	*	1.183	1.216	1.073	1.299	1.137	1.182	7.2*
Benzo(a)pyrene	*	0.994	1.030	1.019	1.149	1.102	1.059	6.1*
Indeno(1,2,3-cd)pyrene	*	0.936	0.945	1.139	1.201	1.160	1.076	11.7*
Dibenz(a,h)anthracene	*	0.703	0.726	0.864	0.926	0.900	0.824	12.4*
Benzo(g,h,i)perylene	*	0.757	0.733	0.898	0.934	0.904	0.845	11.0*
Nitrobenzene-d5	*	0.490	0.459	0.476	0.492	0.482	0.480	2.8*
2-Fluorobiphenyl	*	1.374	1.323	1.334	1.438	1.451	1.384	4.2*
Terphenyl-d14	*	1.265	1.130	1.357	1.407	1.313	1.294	8.2*
Phenol-d5	*	1.568	1.427	1.411	1.306	1.183	1.379	10.4*
2-Fluorophenol	*	0.959	0.980	1.032	1.068	1.013	1.010	4.2*
2,4,6-Tribromophenol		0.130	0.135	0.136	0.143	0.140	0.137	3.6
2-Chlorophenol-d4	*	1.326	1.275	1.320	1.333	1.238	1.298	3.1*
1,2-Dichlorobenzene-d4	*	0.863	0.861	0.895	0.928	0.870	0.883	3.2*

(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.

Calibration Table Status Report

Method: OLM03_S.M Protocol: CLP 3/90
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Calibration Date: Sun Mar 31 15:52:30 1996 Inst: HP6

Calibration File IDs
20 =77312.D 80 =77313.D 120 =77314.D
160 =77315.D 50 =77311.D

	Compound	20	80	120	160	50	Avg	%RSD
8	CI30 1,4-Dichlorobenze	----------	----------	----------	ISTD	----------	----------	----------
1	CS50 2-Fluorophenol	0.959	1.031	1.068	1.013	0.980	1.010	4.24
2	CS70 2-Chlorophenol-d4	1.326	1.319	1.333	1.238	1.275	1.298	3.14
3	C325 bis(2-Chloroethyl	1.497	1.287	1.185	1.094	1.307	1.274	11.84
4	CS45 Phenol-d5	1.568	1.411	1.306	1.183	1.427	1.379	10.44
5	C330 2-Chlorophenol	1.404	1.370	1.388	1.286	1.314	1.353	3.71
6	C315 Phenol	1.687	1.484	1.382	1.261	1.496	1.462	10.77
7	C335 1,3-Dichlorobenze	1.500	1.459	1.478	1.402	1.426	1.453	2.72
9	C340 1,4-Dichlorobenze	1.494	1.474	1.515	1.453	1.421	1.471	2.46
10	CS75 1,2-Dichlorobenze	0.863	0.895	0.928	0.870	0.861	0.883	3.23
11	C350 1,2-Dichlorobenze	1.411	1.377	1.392	1.309	1.343	1.366	2.98
12	C360 2,2'-oxybis(1-Chl	1.912	1.774	1.676	1.508	1.747	1.724	8.58
13	C355 2-Methylphenol	1.143	1.148	1.139	1.028	1.099	1.111	4.54
14	C375 Hexachloroethane	0.658	0.637	0.623	0.594	0.630	0.628	3.66
15	C370 N-Nitroso-di-n-pr	1.056	1.021	0.980	0.850	0.972	0.976	8.03
16	C365 4-Methylphenol	1.219	1.192	1.195	1.058	1.135	1.160	5.60
25	CI40 Naphthalene-d8	----------	----------	----------	ISTD	----------	----------	----------
17	CS20 Nitrobenzene-d5	0.490	0.476	0.492	0.482	0.459	0.480	2.75
18	C410 Nitrobenzene	0.478	0.443	0.457	0.432	0.444	0.451	3.91
19	C415 Isophorone	0.872	0.872	0.913	0.838	0.827	0.865	3.93
20	C420 2-Nitrophenol	0.237	0.243	0.257	0.248	0.246	0.246	3.04
21	C425 2,4-Dimethylpheno	0.395	0.392	0.403	0.377	0.390	0.392	2.46
22	C435 bis(2-Chloroethox	0.550	0.538	0.545	0.516	0.522	0.534	2.79
23	C440 2,4-Dichloropheno	0.332	0.351	0.380	0.353	0.333	0.350	5.58
24	C445 1,2,4-Trichlorobe	0.365	0.368	0.394	0.384	0.357	0.374	4.00
26	C450 Naphthalene	1.092	1.135	1.189	1.153	1.076	1.129	4.07
27	C455 4-Chloroaniline	0.439	0.507	0.538	0.486	0.474	0.489	7.57
28	C460 Hexachlorobutadie	0.214	0.219	0.229	0.221	0.213	0.219	2.83
29	C465 4-Chloro-3-methyl	0.350	0.359	0.367	0.333	0.337	0.349	4.16
30	C470 2-Methylnaphthale	0.733	0.732	0.776	0.709	0.711	0.732	3.71
40	CI50 Acenaphthene-d10	----------	----------	----------	ISTD	----------	----------	----------
31	C510 Hexachlorocyclope	0.406	0.471	0.530	0.568	0.459	0.487	13.00
32	C515 2,4,6-Trichloroph	0.438	0.431	0.470	0.462	0.418	0.444	4.93
33	C520 2,4,5-Trichloroph	0.433	0.450	0.481	0.486	0.457	0.461	4.82
34	CS25 2-Fluorobiphenyl	1.374	1.334	1.438	1.451	1.323	1.384	4.24
35	C525 2-Chloronaphthale	1.242	1.243	1.355	1.349	1.239	1.286	4.72
36	C530 2-Nitroaniline	0.447	0.440	0.460	0.442	0.427	0.443	2.66
37	C535 Dimethylphthalate	1.328	1.344	1.437	1.346	1.294	1.350	3.94
38	C540 Acenaphthylene	1.893	1.854	1.951	1.905	1.826	1.886	2.55
39	C543 2,6-Dinitrotoluen	0.286	0.288	0.322	0.300	0.282	0.296	5.46
41	C545 3-Nitroaniline	0.267	0.273	0.303	0.286	0.251	0.276	7.07
42	C550 Acenaphthene	1.099	1.100	1.186	1.146	1.066	1.120	4.17
43	C555 2,4-Dinitrophenol	0.121	0.196	0.225	0.213	0.172	0.185	22.29

* = QC Criteria Failed ** = % RSD > 40, Calibration Failed
# = Minimun RF Failed, % RSD Passed

Calibration Table Status Report
Method: OLMO3_S.M Protocol: CLP 3/90
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Calibration Date: Sun Mar 31 15:52:30 1996 Inst: HP6

000499

Calibration File IDs
20 =77312.D 80 =77313.D 120 =77314.D
160 =77315.D 50 =77311.D

	Compound	20	80	120	160	50	Avg	%RSD
44	C565 Dibenzofuran	1.550	1.573	1.667	1.590	1.509	1.578	3.70
45	C560 4-Nitrophenol	0.118	0.168	0.193	0.174	0.155	0.162	17.14
46	C570 2,4-Dinitrotoluen	0.365	0.378	0.391	0.364	0.365	0.373	3.14
47	C580 Diethylphthalate	1.254	1.282	1.316	1.217	1.190	1.252	4.01
48	C590 Fluorene	1.163	1.186	1.240	1.196	1.133	1.184	3.37
49	C585 4-Chlorophenyl-ph	0.576	0.572	0.613	0.584	0.552	0.579	3.78
50	C595 4-Nitroaniline	0.246	0.290	0.313	0.291	0.264	0.281	9.22
57	CI60 Phenanthrene-d10	----------	----------	----------	ISTD	----------	----------	----------
51	C615 N-Nitrosodiphenyl	0.567	0.614	0.631	0.620	0.566	0.600	5.14
52	C610 4,6-Dinitro-2-met	0.133	0.182	0.200	0.202	0.170	0.177	15.83
53	CS55 2,4,6-Tribromophe	0.130	0.136	0.143	0.140	0.135	0.137	3.79
54	C625 4-Bromophenyl-phe	0.270	0.280	0.297	0.291	0.278	0.283	3.83
55	C630 Hexachlorobenzene	0.297	0.298	0.319	0.304	0.300	0.304	2.92
56	C635 Pentachlorophenol	0.131	0.171	0.196	0.192	0.162	0.170	15.41
58	C640 Phenanthrene	1.045	1.064	1.154	1.138	1.039	1.088	4.97
59	C645 Anthracene	1.029	1.085	1.137	1.109	1.041	1.080	4.18
60	C648 Carbazole	0.823	0.889	0.954	0.951	0.858	0.895	6.42
61	C650 Di-n-butylphthala	1.257	1.380	1.476	1.484	1.325	1.384	7.04
62	C655 Fluoranthene	0.830	0.860	0.913	0.965	0.869	0.888	5.92
67	CI70 Chrysene-d12	----------	----------	----------	ISTD	----------	----------	----------
63	C715 Pyrene	2.111	2.133	2.215	2.048	1.826	2.067	7.13
64	CS30 Terphenyl-d14	1.265	1.357	1.407	1.313	1.130	1.294	8.16
65	C720 Butylbenzylphthal	0.857	0.953	1.027	1.015	0.831	0.937	9.56
66	C730 Benzo(a)anthracen	1.241	1.274	1.366	1.333	1.188	1.280	5.57
68	C725 3,3'-Dichlorobenz	0.257	0.317	0.357	0.356	0.263	0.310	15.58
69	C740 Chrysene	1.138	1.100	1.156	1.131	1.073	1.120	2.93
70	C745 bis(2-Ethylhexyl)	0.885	0.988	1.131	1.133	0.923	1.012	11.42
75	CI75 Perylene-d12	----------	----------	----------	ISTD	----------	----------	----------
71	C760 Di-n-octylphthala	1.755	1.928	2.268	2.192	1.916	2.012	10.56
72	C765 Benzo(b)fluoranth	1.250	1.323	1.339	1.330	1.239	1.296	3.70
73	C770 Benzo(k)fluoranth	1.183	1.073	1.299	1.137	1.216	1.182	7.18
74	C775 Benzo(a)pyrene	0.994	1.019	1.149	1.102	1.030	1.059	6.06
76	C780 Indeno(1,2,3-cd)p	0.936	1.139	1.201	1.160	0.945	1.076	11.69
77	C785 Dibenz(a,h)anthra	0.703	0.864	0.926	0.900	0.726	0.824	12.44
78	C790 Benzo(g,h,i)peryl	0.756	0.898	0.934	0.904	0.733	0.845	11.01

* = QC Criteria Failed ** = % RSD > 40, Calibration Failed
# = Minimun RF Failed, % RSD Passed

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Continuing Calibration File: 77311.D Inst: HP6

000500

RRT			Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
8	I	CI30	1,4-Dichlorobenzene-d4	1.000	1.000	0.0		
1	S	CS50	2-Fluorophenol	1.010	0.980	3.0	0.600	25.0
2	S	CS70	2-Chlorophenol-d4	1.298	1.275	1.8	0.800	25.0
3	S	CS45	Phenol-d5	1.379	1.427	3.5	0.800	25.0
4	T	C325	bis(2-Chloroethyl)ether	1.274	1.307	2.6	0.700	25.0
5	T	C315	Phenol	1.462	1.496	2.3	0.800	25.0
6	T	C330	2-Chlorophenol	1.353	1.314	2.8	0.800	25.0
7	T	C335	1,3-Dichlorobenzene	1.453	1.426	1.9	0.600	25.0
9	T	C340	1,4-Dichlorobenzene	1.471	1.421	3.4	0.500	25.0
10	S	CS75	1,2-Dichlorobenzene-d4	0.883	0.861	2.5	0.400	25.0
11	T	C350	1,2-Dichlorobenzene	1.366	1.343	1.7	0.400	25.0
12	T	C360	2,2'-oxybis(1-Chloroprop	1.724	1.747	1.4	0.010	
13	T	C355	2-Methylphenol	1.111	1.099	1.1	0.700	25.0
14	T	C375	Hexachloroethane	0.628	0.630	0.3	0.300	25.0
15	T	C370	N-Nitroso-di-n-propylami	0.976	0.972	0.4	0.500	25.0
16	T	C365	4-Methylphenol	1.160	1.135	2.1	0.600	25.0
25	I	CI40	Naphthalene-d8	1.000	1.000	0.0		
17	S	CS20	Nitrobenzene-d5	0.480	0.459	4.3	0.200	25.0
18	T	C410	Nitrobenzene	0.451	0.444	1.5	0.200	25.0
19	T	C415	Isophorone	0.865	0.827	4.4	0.400	25.0
0	T	C420	2-Nitrophenol	0.246	0.246	0.2	0.100	25.0
.1	T	C425	2,4-Dimethylphenol	0.392	0.390	0.4	0.200	25.0
22	T	C435	bis(2-Chloroethoxy)metha	0.534	0.522	2.3	0.300	25.0
23	T	C440	2,4-Dichlorophenol	0.350	0.333	4.7	0.200	25.0
24	T	C445	1,2,4-Trichlorobenzene	0.374	0.357	4.4	0.200	25.0
26	T	C450	Naphthalene	1.129	1.076	4.7	0.700	25.0
27	T	C455	4-Chloroaniline	0.489	0.474	3.1	0.010	
28	T	C460	Hexachlorobutadiene	0.219	0.213	2.6	0.010	
29	T	C465	4-Chloro-3-methylphenol	0.349	0.337	3.4	0.200	25.0
30	T	C470	2-Methylnaphthalene	0.732	0.711	2.9	0.400	25.0
40	I	CI50	Acenaphthene-d10	1.000	1.000	0.0		
31	T	C510	Hexachlorocyclopentadien	0.487	0.459	5.7	0.010	
32	T	C515	2,4,6-Trichlorophenol	0.444	0.418	5.9	0.200	25.0
33	T	C520	2,4,5-Trichlorophenol	0.461	0.457	0.9	0.200	25.0
34	S	CS25	2-Fluorobiphenyl	1.384	1.323	4.4	0.700	25.0
35	T	C525	2-Chloronaphthalene	1.286	1.239	3.6	0.800	25.0
36	T	C530	2-Nitroaniline	0.443	0.427	3.6	0.010	
37	T	C535	Dimethylphthalate	1.350	1.294	4.1	0.010	
38	T	C540	Acenaphthylene	1.886	1.826	3.2	0.900	25.0
39	T	C543	2,6-Dinitrotoluene	0.296	0.282	4.6	0.200	25.0
41	T	C545	3-Nitroaniline	0.276	0.251	9.0	0.010	
42	T	C550	Acenaphthene	1.120	1.066	4.8	0.900	25.0
43	T	C555	2,4-Dinitrophenol	0.185	0.172	7.0	0.010	
44	T	C565	Dibenzofuran	1.578	1.509	4.3	0.800	25.0
5	T	C560	4-Nitrophenol	0.162	0.155	4.1	0.010	
6	T	C570	2,4-Dinitrotoluene	0.373	0.365	2.1	0.200	25.0

(*) = Out of Range (**) = % Dev fails CLP maximum acceptance criteria

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Continuing Calibration File: 77311.D Inst: HP6

000501

...#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
47	T	C580 Diethylphthalate	1.252	1.190	4.9	0.010	
48	T	C590 Fluorene	1.184	1.133	4.3	0.900	25.0
49	T	C585 4-Chlorophenyl-phenyleth	0.579	0.552	4.7	0.400	25.0
50	T	C595 4-Nitroaniline	0.281	0.264	5.8	0.010	
57	I	CI60 Phenanthrene-d10	1.000	1.000	0.0		
51	T	C610 4,6-Dinitro-2-methylphen	0.177	0.170	4.1	0.010	
52	T	C615 N-Nitrosodiphenylamine	0.600	0.566	5.5	0.010	
53	S	CS55 2,4,6-Tribromophenol	0.137	0.135	1.4	0.010	
54	T	C625 4-Bromophenyl-phenylethe	0.283	0.278	1.8	0.100	25.0
55	T	C630 Hexachlorobenzene	0.304	0.300	1.3	0.100	25.0
56	T	C635 Pentachlorophenol	0.170	0.162	4.9	0.050	25.0
58	T	C640 Phenanthrene	1.088	1.039	4.5	0.700	25.0
59	T	C645 Anthracene	1.080	1.041	3.6	0.700	25.0
60	T	C648 Carbazole	0.895	0.858	4.2	0.010	
61	T	C650 Di-n-butylphthalate	1.384	1.325	4.3	0.010	
62	T	C655 Fluoranthene	0.888	0.869	2.1	0.600	25.0
67	I	CI70 Chrysene-d12	1.000	1.000	0.0		
63	T	C715 Pyrene	2.067	1.826	11.7	0.600	25.0
64	S	CS30 Terphenyl-d14	1.294	1.130	12.7	0.500	25.0
65	T	C720 Butylbenzylphthalate	0.937	0.831	11.2	0.010	
6	T	C730 Benzo(a)anthracene	1.280	1.188	7.2	0.800	25.0
8	T	C725 3,3'-Dichlorobenzidine	0.310	0.263	15.1	0.010	
69	T	C740 Chrysene	1.120	1.073	4.1	0.700	25.0
70	T	C745 bis(2-Ethylhexyl)phthala	1.012	0.923	8.8	0.010	
75	I	CI75 Perylene-d12	1.000	1.000	0.0		
71	T	C760 Di-n-octylphthalate	2.012	1.916	4.8	0.010	
72	T	C765 Benzo(b)fluoranthene	1.296	1.239	4.4	0.700	25.0
73	T	C770 Benzo(k)fluoranthene	1.182	1.216	2.9	0.700	25.0
74	T	C775 Benzo(a)pyrene	1.059	1.030	2.7	0.700	25.0
76	T	C780 Indeno(1,2,3-cd)pyrene	1.076	0.945	12.2	0.500	25.0
77	T	C785 Dibenz(a,h)anthracene	0.824	0.726	11.9	0.400	25.0
78	T	C790 Benzo(g,h,i)perylene	0.845	0.733	13.3	0.500	25.0

(*) = QC Criteria Failed (**) = > 40 % Dev., Reanalyze Standard

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 12:50 RD 040896 000502
Data File: C:\CHEMPC\DATA\033196\77311.D
Name: SSTD050 6C S-96-090
Misc: HP6*AATSLA*SSTD050*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 12:22:10 1996
Quantitated using Multiple Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.68	152	130753	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.21	136	393897	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.36	164	214258	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.48	188	265193	40.00	ug/mL	0.01
67) CI70 Chrysene-d12	15.63	240	126392	40.00	ug/mL	0.01
75) CI75 Perylene-d12	17.74	264	88637	40.00	ug/mL	0.01
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.84	112	160103	32.91	ug/mL	21.94%
2) CS70 2-Chlorophenol-d4	5.40	132	208352	34.93	ug/mL	23.29%
4) CS45 Phenol-d5	5.41	99	233249	34.42	ug/mL	22.94%
10) CS75 1,2-Dichlorobenzene-d	5.94	152	140688	33.38	ug/mL	33.38%
17) CS20 Nitrobenzene-d5	6.45	82	226046	34.15	ug/mL	34.15%
34) CS25 2-Fluorobiphenyl	8.51	172	354268	33.36	ug/mL	33.36%
53) CS55 2,4,6-Tribromophenol	10.49	330	44622	32.68	ug/mL	21.78%
64) CS30 Terphenyl-d14	14.02	244	178577	33.34	ug/mL	33.34%
Target Compounds						ISTD#
3) C325 bis(2-Chloroethyl)eth	5.42	93	213680	36.68	ug/mL	001#
5) C330 2-Chlorophenol	5.43	128	214818	34.81	ug/mL	001
6) C315 Phenol	5.43	94	244563	36.45	ug/mL	001#
7) C335 1,3-Dichlorobenzene	5.61	146	233012	34.08	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.70	146	232284	33.81	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.95	146	219576	34.71	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.18	45	285543	37.51	ug/mL	001
13) C355 2-Methylphenol	6.23	108	179606	35.60	ug/mL	001
14) C375 Hexachloroethane	6.31	117	102979	35.50	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.35	70	158913	38.03	ug/mL	001
16) C365 4-Methylphenol	6.39	108	185517	36.41	ug/mL	001
18) C410 Nitrobenzene	6.47	77	218457	35.55	ug/mL	002
19) C415 Isophorone	6.74	82	407063	34.81	ug/mL	002
20) C420 2-Nitrophenol	6.83	139	120929	35.32	ug/mL	002
21) C425 2,4-Dimethylphenol	6.95	107	191944	36.58	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	7.03	93	256912	35.63	ug/mL	002
23) C440 2,4-Dichlorophenol	7.11	162	164175	34.51	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.16	180	176021	34.08	ug/mL	002
26) C450 Naphthalene	7.23	128	529664	35.71	ug/mL	002
27) C455 4-Chloroaniline	7.35	127	233205	34.50	ug/mL	002
28) C460 Hexachlorobutadiene	7.43	225	105012	33.12	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.94	107	166091	35.52	ug/mL	002
30) C470 2-Methylnaphthalene	8.02	142	350137	35.41	ug/mL	002
31) C510 Hexachlorocyclopentad	8.29	237	122978	31.83	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.42	196	111860	33.31	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.48	196	122481	35.29	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 12:50

Data File: C:\CHEMPC\DATA\033196\77311.D RD 040996 000503

Name: SSTD050 6C S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 12:22:10 1996

Quantitated using Multiple Level Calibration

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.61	162	331763	34.16	ug/mL	003
36)	C530 2-Nitroaniline	8.82	65	114438	34.02	ug/mL	003
37)	C535 Dimethylphthalate	9.10	163	346594	34.84	ug/mL	003
38)	C540 Acenaphthylene	9.15	152	488948	34.46	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.19	165	75543	33.70	ug/mL	003
41)	C545 3-Nitroaniline	9.38	138	67227	27.73	ug/mL	003
42)	C550 Acenaphthene	9.40	153	285555	34.76	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.53	184	46192	31.89	ug/mL	003#
44)	C565 Dibenzofuran	9.62	168	404218	34.56	ug/mL	003
45)	C560 4-Nitrophenol	9.68	109	41479	34.23	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.74	165	97697	34.58	ug/mL	003
47)	C580 Diethylphthalate	10.08	149	318668	34.38	ug/mL	003
48)	C590 Fluorene	10.10	166	303422	35.30	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.12	204	147883	34.24	ug/mL	003
50)	C595 4-Nitroaniline	10.26	138	70831	30.94	ug/mL	003#
51)	C610 4,6-Dinitro-2-methylp	10.32	198	56432	33.75	ug/mL	004#
52)	C615 N-Nitrosodiphenylamin	10.32	169	187774	35.77	ug/mL	004
54)	C625 4-Bromophenyl-phenyle	10.82	248	92243	35.08	ug/mL	004
55)	C630 Hexachlorobenzene	11.03	284	99282	34.41	ug/mL	004
56)	C635 Pentachlorophenol	11.33	266	53713	32.46	ug/mL	004
58)	C640 Phenanthrene	11.51	178	344530	34.67	ug/mL	004
59)	C645 Anthracene	11.58	178	345151	35.32	ug/mL	004
60)	C648 Carbazole	11.87	167	284373	34.10	ug/mL	004
61)	C650 Di-n-butylphthalate	12.55	149	439104	34.95	ug/mL	004
62)	C655 Fluoranthene	13.35	202	288187	33.64	ug/mL	004
63)	C715 Pyrene	13.69	202	288437	33.87	ug/mL	005
65)	C720 Butylbenzylphthalate	14.89	149	131355	33.50	ug/mL	005
66)	C730 Benzo(a)anthracene	15.60	228	187673	32.51	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.65	252	41542	27.74	ug/mL	005
69)	C740 Chrysene	15.67	228	169596	33.53	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.86	149	145882	32.91	ug/mL	005
71)	C760 Di-n-octylphthalate	16.78	149	212275	36.41	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.22	252	137272	33.84	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.26	252	134753	39.81	ug/mL	006
74)	C775 Benzo(a)pyrene	17.66	252	114137	34.25	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.07	276	104690	28.32	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.09	278	80428	28.46	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.38	276	81173	27.74	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 12:50

Data File: C:\CHEMPC\DATA\033196\77311.D

Name: SSTD0506C S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

Method: OLM03_S.M Inst: HP6

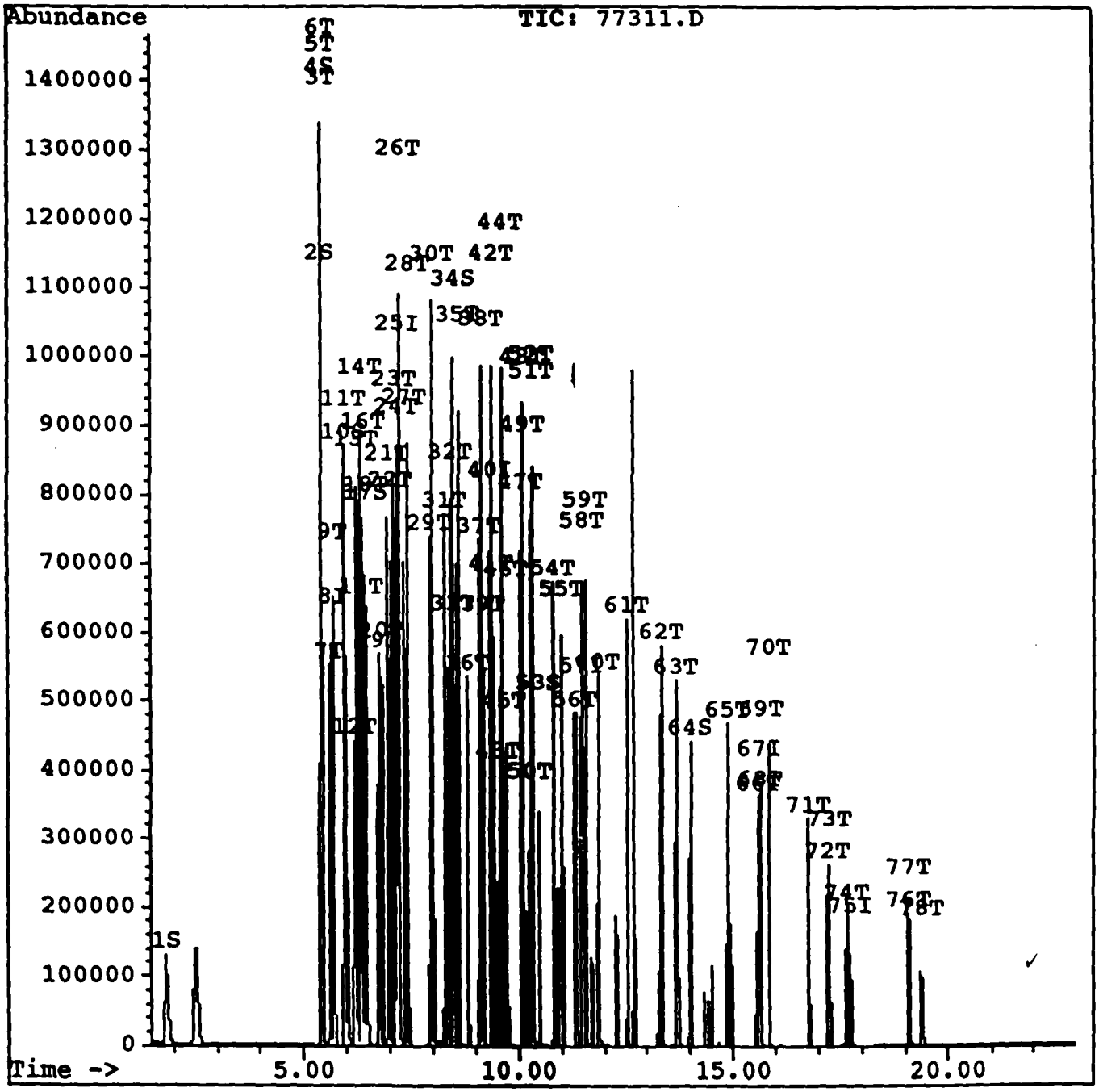
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 12:22:10 1996

Quantitated using Multiple Level Calibration

RD 040996

000504



QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:20

Data File: C:\CHEMPC\DATA\033196\77312.D

Name: SSTD020bC S-96-094

Misc: HP6*AATSLA*SSTD020*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD
04C996

000505

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
Internal Standards							
8)	CI30 1,4-Dichlorobenzene-d	5.67	152	125009	40.00	ug/mL	-0.00
25)	CI40 Naphthalene-d8	7.19	136	387035	40.00	ug/mL	-0.01
40)	CI50 Acenaphthene-d10	9.35	164	211072	40.00	ug/mL	-0.01
57)	CI60 Phenanthrene-d10	11.47	188	271254	40.00	ug/mL	-0.01
67)	CI70 Chrysene-d12	15.62	240	107113	40.00	ug/mL	-0.01
75)	CI75 Perylene-d12	17.74	264	74649	40.00	ug/mL	-0.00
System Monitoring Compounds							%Recovery
1)	CS50 2-Fluorophenol	1.84	112	59916	13.67	ug/mL	9.11%
2)	CS70 2-Chlorophenol-d4	5.40	132	82885	15.51	ug/mL	10.34%
3)	CS45 Phenol-d5	5.40	99	98037	15.93	ug/mL	10.62%
10)	CS75 1,2-Dichlorobenzene-d	5.93	152	53938	14.30	ug/mL	14.30%
17)	CS20 Nitrobenzene-d5	6.44	82	94757	15.42	ug/mL	15.42%
34)	CS25 2-Fluorobiphenyl	8.50	172	144987	14.75	ug/mL	14.75%
53)	CS55 2,4,6-Tribromophenol	10.48	330	17589	13.52	ug/mL	9.01%
64)	CS30 Terphenyl-d14	14.01	244	67769	16.30	ug/mL	16.30%
Target Compounds							ISTD#
4)	C325 bis(2-Chloroethyl)eth	5.41	93	93547	17.72	ug/mL	001#
5)	C315 Phenol	5.42	94	105476	17.29	ug/mL	001#
6)	C330 2-Chlorophenol	5.42	128	87736	15.92	ug/mL	001
7)	C335 1,3-Dichlorobenzene	5.61	146	93735	15.29	ug/mL	001
9)	C340 1,4-Dichlorobenzene	5.69	146	93360	15.20	ug/mL	001
11)	C350 1,2-Dichlorobenzene	5.95	146	88201	15.53	ug/mL	001
12)	C360 2,2'-oxybis(1-Chlorop	6.17	45	119531	17.24	ug/mL	001
13)	C355 2-Methylphenol	6.22	108	71448	15.74	ug/mL	001
14)	C375 Hexachloroethane	6.31	117	41100	15.72	ug/mL	001
15)	C370 N-Nitroso-di-n-propyl	6.34	70	66032	17.50	ug/mL	001
16)	C365 4-Methylphenol	6.39	108	76194	16.69	ug/mL	001
18)	C410 Nitrobenzene	6.46	77	92450	16.13	ug/mL	002
19)	C415 Isophorone	6.73	82	168823	15.60	ug/mL	002
20)	C420 2-Nitrophenol	6.83	139	45824	14.47	ug/mL	002
21)	C425 2,4-Dimethylphenol	6.94	107	76493	15.73	ug/mL	002
22)	C435 bis(2-Chloroethoxy)me	7.01	93	106511	15.97	ug/mL	002
23)	C440 2,4-Dichlorophenol	7.11	162	64177	14.67	ug/mL	002
24)	C445 1,2,4-Trichlorobenzen	7.17	180	70584	14.89	ug/mL	002
26)	C450 Naphthalene	7.22	128	211294	15.37	ug/mL	002
27)	C455 4-Chloroaniline	7.35	127	84950	13.77	ug/mL	002
28)	C460 Hexachlorobutadiene	7.43	225	41360	14.31	ug/mL	002
29)	C465 4-Chloro-3-methylphen	7.94	107	67801	15.75	ug/mL	002
30)	C470 2-Methylnaphthalene	8.01	142	141828	15.60	ug/mL	002
31)	C510 Hexachlorocyclopentad	8.28	237	42855	12.08	ug/mL	003
32)	C515 2,4,6-Trichlorophenol	8.42	196	46222	14.91	ug/mL	003
33)	C520 2,4,5-Trichlorophenol	8.48	196	45682	14.12	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:20
Data File: C:\CHEMPC\DATA\033196\77312.D
Name: SSTD0206C S-96-094
Misc: HP6*AATSLA*SSTD020*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 13:19:28 1996
Quantitated using Multiple Level Calibration

RD
040996

000506

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.60	162	131126	14.58	ug/mL	003
36)	C530 2-Nitroaniline	8.82	65	47224	14.99	ug/mL	003
37)	C535 Dimethylphthalate	9.09	163	140103	15.21	ug/mL	003
38)	C540 Acenaphthylene	9.14	152	199737	15.24	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.19	165	30138	14.50	ug/mL	003
41)	C545 3-Nitroaniline	9.37	138	28182	12.75	ug/mL	003
42)	C550 Acenaphthene	9.40	153	116022	15.26	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.53	184	12723	9.58	ug/mL	003#
44)	C565 Dibenzofuran	9.61	168	163555	15.11	ug/mL	003
45)	C560 4-Nitrophenol	9.68	109	12496	11.10	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.72	165	38559	14.60	ug/mL	003#
47)	C580 Diethylphthalate	10.07	149	132297	15.38	ug/mL	003
48)	C590 Fluorene	10.10	166	122747	15.45	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.11	204	60791	15.31	ug/mL	003
50)	C595 4-Nitroaniline	10.24	138	25970	12.17	ug/mL	003#
51)	C610 4,6-Dinitro-2-methylp	10.30	198	18051	11.33	ug/mL	004#
52)	C615 N-Nitrosodiphenylamin	10.32	169	76851	15.38	ug/mL	004
54)	C625 4-Bromophenyl-phenyle	10.82	248	36633	14.67	ug/mL	004
55)	C630 Hexachlorobenzene	11.03	284	40315	14.68	ug/mL	004
56)	C635 Pentachlorophenol	11.32	266	17752	11.28	ug/mL	004
58)	C640 Phenanthrene	11.50	178	141687	14.93	ug/mL	004
59)	C645 Anthracene	11.57	178	139594	14.87	ug/mL	004
60)	C648 Carbazole	11.86	167	111654	13.89	ug/mL	004
61)	C650 Di-n-butylphthalate	12.54	149	170515	13.99	ug/mL	004
62)	C655 Fluoranthene	13.35	202	112606	13.52	ug/mL	004
63)	C715 Pyrene	13.69	202	113082	17.11	ug/mL	005
65)	C720 Butylbenzylphthalate	14.89	149	45884	14.72	ug/mL	005
66)	C730 Benzo(a)anthracene	15.60	228	66454	14.53	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.65	252	13772	11.88	ug/mL	005
69)	C740 Chrysene	15.66	228	60952	15.18	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.86	149	47371	13.36	ug/mL	005
71)	C760 Di-n-octylphthalate	16.77	149	65502	13.97	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.22	252	46643	14.67	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.25	252	44165	16.34	ug/mL	006
74)	C775 Benzo(a)pyrene	17.66	252	37110	14.19	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.07	276	34947	12.35	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.09	278	26238	12.19	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.38	276	28236	12.67	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:20

Data File: C:\CHEMPC\DATA\033196\77312.D

Name: SSTD020 6C S-96-094

Misc: HP6*AATSLA*SSTD020*2uL*MS517

Method: OLMO3_S.M Inst: HP6

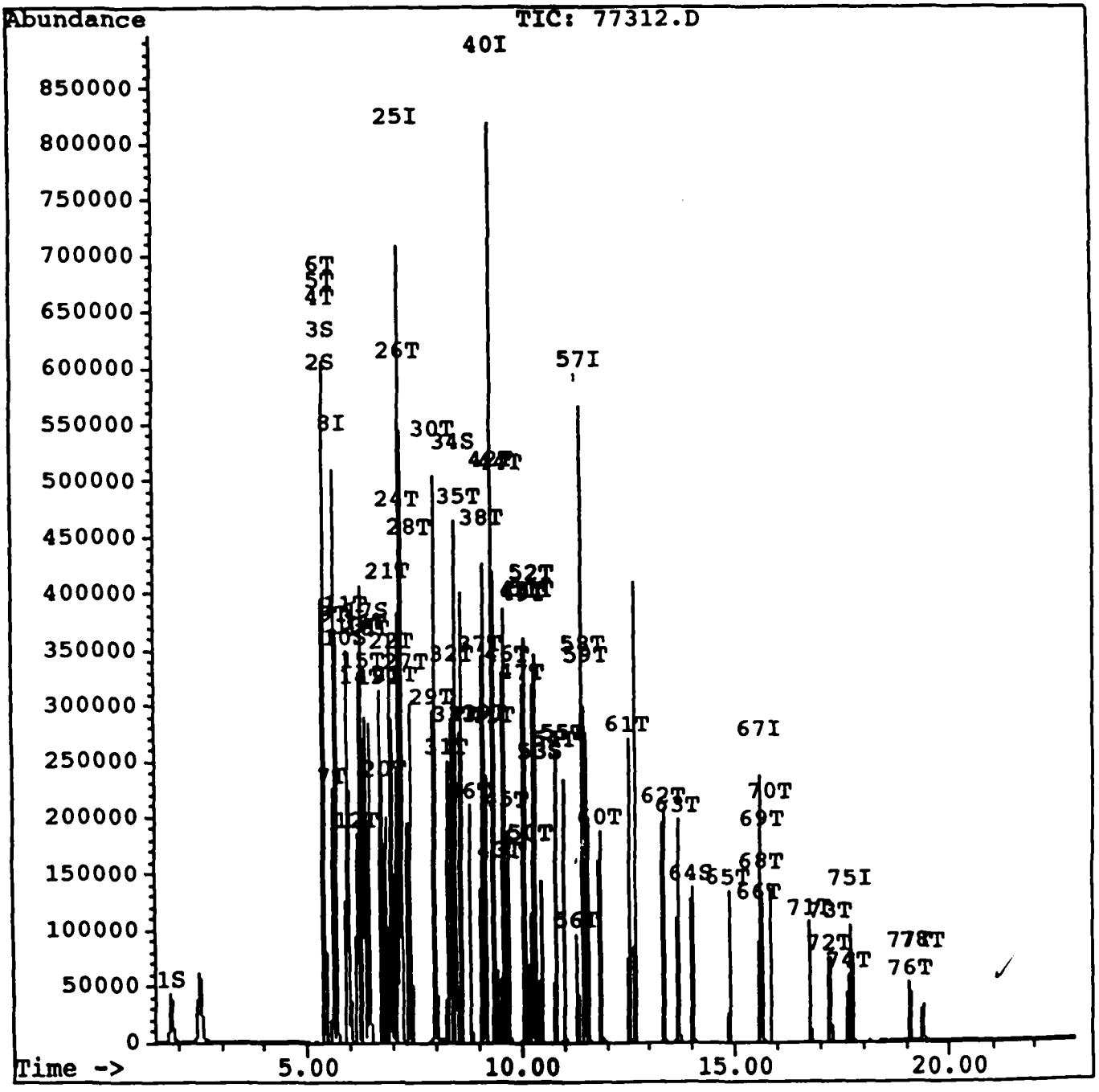
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD 040996

000507



QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:49

RD
040996

000508

Data File: C:\CHEMPC\DATA\033196\77313.D
Name: SSTD0806C S-96-093
Misc: HP6*AATSLA*SSTD080*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 13:19:28 1996
Quantitated using Multiple Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.67	152	112880	40.00	ug/mL	-0.01
25) CI40 Naphthalene-d8	7.21	136	345738	40.00	ug/mL	0.00
40) CI50 Acenaphthene-d10	9.35	164	196722	40.00	ug/mL	-0.01
57) CI60 Phenanthrene-d10	11.47	188	247423	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.63	240	96336	40.00	ug/mL	0.00
75) CI75 Perylene-d12	17.74	264	70894	40.00	ug/mL	0.00
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.81	112	232873	58.84	ug/mL	39.23%
2) CS70 2-Chlorophenol-d4	5.39	132	297891	61.74	ug/mL	41.16%
3) CS45 Phenol-d5	5.41	99	318533	57.31	ug/mL	38.20%
10) CS75 1,2-Dichlorobenzene-d	5.94	152	202077	59.35	ug/mL	59.35%
17) CS20 Nitrobenzene-d5	6.46	82	328847	59.91	ug/mL	59.91%
34) CS25 2-Fluorobiphenyl	8.51	172	524980	57.32	ug/mL	57.32%
53) CS55 2,4,6-Tribromophenol	10.49	330	67059	56.49	ug/mL	37.66%
64) CS30 Terphenyl-d14	14.02	244	261389	69.92	ug/mL	69.92%
Target Compounds						ISTD#
4) C325 bis(2-Chloroethyl)eth	5.41	93	290612	60.95	ug/mL	001#
5) C315 Phenol	5.44	94	335119	60.84	ug/mL	001#
6) C330 2-Chlorophenol	5.42	128	309362	62.17	ug/mL	001
7) C335 1,3-Dichlorobenzene	5.60	146	329444	59.53	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.70	146	332868	60.01	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.95	146	310906	60.64	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.18	45	400513	63.97	ug/mL	001
13) C355 2-Methylphenol	6.24	108	259150	63.23	ug/mL	001
14) C375 Hexachloroethane	6.32	117	143793	60.89	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.37	70	230575	67.69	ug/mL	001
16) C365 4-Methylphenol	6.40	108	269154	65.29	ug/mL	001
18) C410 Nitrobenzene	6.48	77	306102	59.79	ug/mL	002
19) C415 Isophorone	6.74	82	603273	62.42	ug/mL	002
20) C420 2-Nitrophenol	6.83	139	167844	59.35	ug/mL	002
21) C425 2,4-Dimethylphenol	6.95	107	271142	62.40	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	7.03	93	372277	62.48	ug/mL	002
23) C440 2,4-Dichlorophenol	7.11	162	242527	62.04	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.16	180	254779	60.17	ug/mL	002
26) C450 Naphthalene	7.23	128	784736	63.92	ug/mL	002
27) C455 4-Chloroaniline	7.35	127	350322	63.55	ug/mL	002
28) C460 Hexachlorobutadiene	7.43	225	151303	58.60	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.94	107	248297	64.57	ug/mL	002
30) C470 2-Methylnaphthalene	8.02	142	506501	62.38	ug/mL	002
31) C510 Hexachlorocyclopentad	8.29	237	185286	56.05	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.43	196	169494	58.67	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.46	196	176882	58.64	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:49

Data File: C:\CHEMPC\DATA\033196\77313.D

Name: SSTD0806C 8-96-093

Misc: HP6*AATSLA*SSTD080*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD 040996

000509

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.62	162	488993	58.33	ug/mL	003
36)	C530 2-Nitroaniline	8.83	65	173006	58.93	ug/mL	003
37)	C535 Dimethylphthalate	9.11	163	528963	61.63	ug/mL	003
38)	C540 Acenaphthylene	9.15	152	729563	59.74	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.20	165	113490	58.60	ug/mL	003
41)	C545 3-Nitroaniline	9.39	138	107350	52.09	ug/mL	003
42)	C550 Acenaphthene	9.41	153	432922	61.10	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.54	184	77074	62.25	ug/mL	003#
44)	C565 Dibenzofuran	9.62	168	618909	61.36	ug/mL	003
45)	C560 4-Nitrophenol	9.69	109	65932	62.82	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.74	165	148544	60.35	ug/mL	003
47)	C580 Diethylphthalate	10.09	149	504350	62.89	ug/mL	003
48)	C590 Fluorene	10.11	166	466466	63.01	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.12	204	225136	60.85	ug/mL	003
50)	C595 4-Nitroaniline	10.28	138	113909	57.25	ug/mL	003#
51)	C610 4,6-Dinitro-2-methylp	10.33	198	90036	61.98	ug/mL	004#
52)	C615 N-Nitrosodiphenylamin	10.34	169	303847	66.65	ug/mL	004
54)	C625 4-Bromophenyl-phenyle	10.83	248	138355	60.74	ug/mL	004
55)	C630 Hexachlorobenzene	11.04	284	147421	58.84	ug/mL	004
56)	C635 Pentachlorophenol	11.33	266	84552	58.89	ug/mL	004
58)	C640 Phenanthrene	11.52	178	526426	60.82	ug/mL	004
59)	C645 Anthracene	11.58	178	537007	62.70	ug/mL	004
60)	C648 Carbazole	11.88	167	439844	59.98	ug/mL	004
61)	C650 Di-n-butylphthalate	12.55	149	682878	61.41	ug/mL	004
62)	C655 Fluoranthene	13.36	202	425640	56.03	ug/mL	004
63)	C715 Pyrene	13.69	202	410991	69.15	ug/mL	005
65)	C720 Butylbenzylphthalate	14.89	149	183554	65.49	ug/mL	005
66)	C730 Benzo(a)anthracene	15.60	228	245401	59.64	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.65	252	61067	58.56	ug/mL	005
69)	C740 Chrysene	15.68	228	211899	58.69	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.86	149	190388	59.70	ug/mL	005
71)	C760 Di-n-octylphthalate	16.78	149	273415	61.40	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.22	252	187613	62.14	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.26	252	152155	59.28	ug/mL	006
74)	C775 Benzo(a)pyrene	17.66	252	144543	58.20	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.08	276	161555	60.12	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.10	278	122547	59.94	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.39	276	127317	60.15	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 13:49

Data File: C:\CHEMPC\DATA\033196\77313.D

Name: SSTD080bc S-96-093

Misc: HP6*AATSLA*SSTD080*2uL*MS517

Method: OLMO3_S.M Inst: HP6

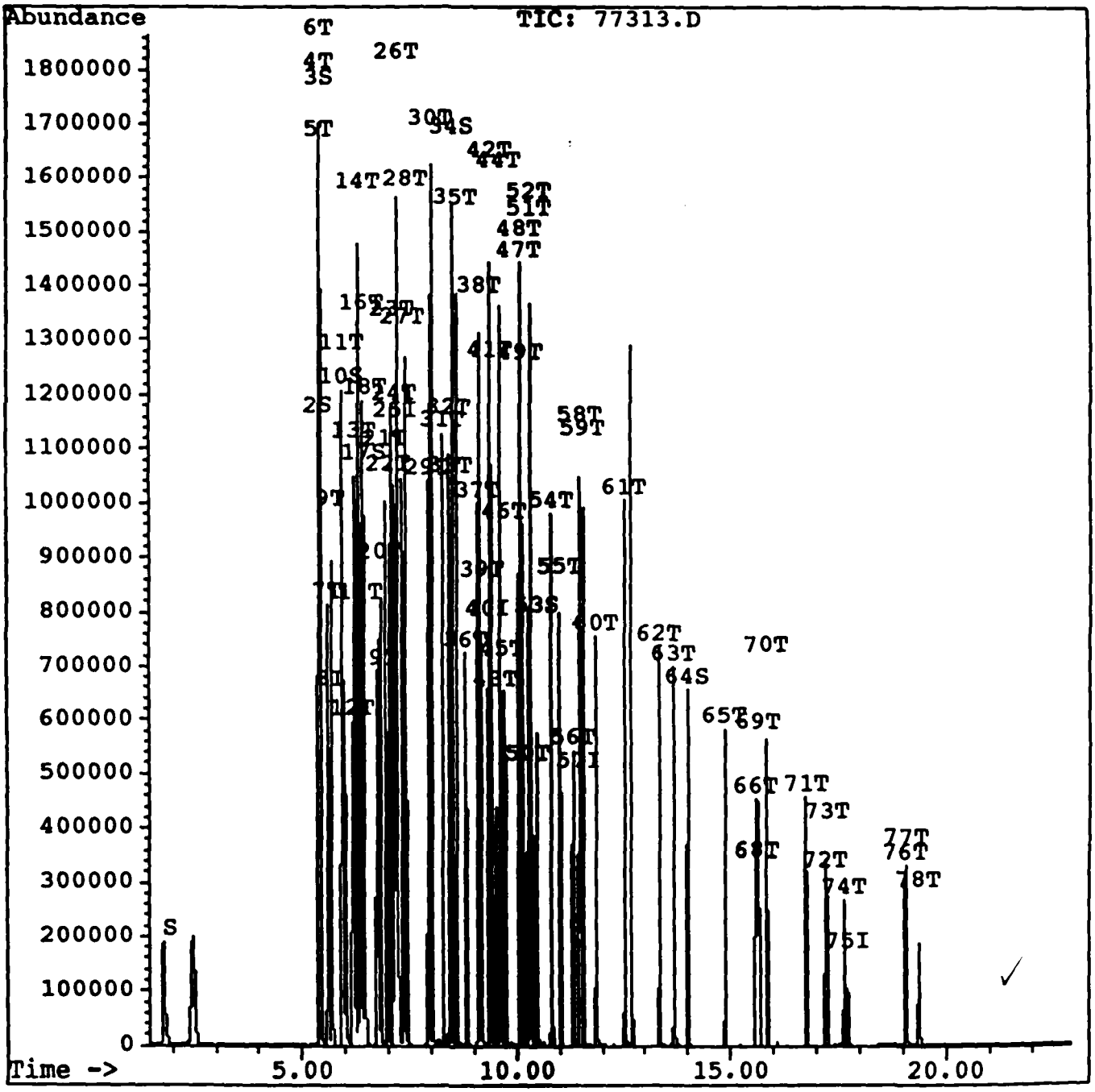
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD 040996

000510



QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:17

Data File: C:\CHEMPC\DATA\033196\77314.D

Name: SSTD120bc S-96-092

Misc: HP6*AATSLA*SSTD120*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD 040996 000511

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
Internal Standards							
8)	CI30 1,4-Dichlorobenzene-d	5.68	152	131157	40.00	ug/mL	0.00
25)	CI40 Naphthalene-d8	7.21	136	380170	40.00	ug/mL	0.00
40)	CI50 Acenaphthene-d10	9.36	164	210079	40.00	ug/mL	0.00
57)	CI60 Phenanthrene-d10	11.48	188	262818	40.00	ug/mL	0.00
67)	CI70 Chrysene-d12	15.63	240	107224	40.00	ug/mL	0.00
75)	CI75 Perylene-d12	17.74	264	77082	40.00	ug/mL	-0.00
System Monitoring Compounds							%Recovery
1)	CS50 2-Fluorophenol	1.81	112	420051	91.35	ug/mL	60.90%
2)	CS70 2-Chlorophenol-d4	5.41	132	524489	93.56	ug/mL	62.37%
3)	CS45 Phenol-d5	5.44	99	513856	79.56	ug/mL	53.04%
10)	CS75 1,2-Dichlorobenzene-d	5.95	152	365174	92.31	ug/mL	92.31%
17)	CS20 Nitrobenzene-d5	6.48	82	560987	92.95	ug/mL	92.95%
34)	CS25 2-Fluorobiphenyl	8.52	172	906471	92.68	ug/mL	92.68%
53)	CS55 2,4,6-Tribromophenol	10.51	330	112895	89.54	ug/mL	59.69%
64)	CS30 Terphenyl-d14	14.03	244	452478	108.75	ug/mL	108.75%
Target Compounds							ISTD#
4)	C325 bis(2-Chloroethyl)eth	5.44	93	466359	84.18	ug/mL	001#
5)	C315 Phenol	5.46	94	543830	84.98	ug/mL	001#
6)	C330 2-Chlorophenol	5.44	128	546314	94.49	ug/mL	001
7)	C335 1,3-Dichlorobenzene	5.61	146	581745	90.47	ug/mL	001
9)	C340 1,4-Dichlorobenzene	5.71	146	595921	92.46	ug/mL	001
11)	C350 1,2-Dichlorobenzene	5.96	146	547796	91.96	ug/mL	001
12)	C360 2,2'-oxybis(1-Chlorop	6.18	45	659597	90.67	ug/mL	001
13)	C355 2-Methylphenol	6.25	108	448220	94.12	ug/mL	001
14)	C375 Hexachloroethane	6.32	117	245258	89.39	ug/mL	001
15)	C370 N-Nitroso-di-n-propyl	6.39	70	385463	97.39	ug/mL	001
16)	C365 4-Methylphenol	6.42	108	470315	98.18	ug/mL	001
18)	C410 Nitrobenzene	6.49	77	520834	92.52	ug/mL	002
19)	C415 Isophorone	6.77	82	1041583	98.01	ug/mL	002
20)	C420 2-Nitrophenol	6.84	139	293236	94.29	ug/mL	002
21)	C425 2,4-Dimethylphenol	6.98	107	460059	96.28	ug/mL	002
22)	C435 bis(2-Chloroethoxy)me	7.04	93	621785	94.90	ug/mL	002
23)	C440 2,4-Dichlorophenol	7.13	162	433446	100.84	ug/mL	002
24)	C445 1,2,4-Trichlorobenzen	7.17	180	449343	96.51	ug/mL	002
26)	C450 Naphthalene	7.24	128	1356157	100.46	ug/mL	002
27)	C455 4-Chloroaniline	7.36	127	613839	101.27	ug/mL	002
28)	C460 Hexachlorobutadiene	7.44	225	260626	91.79	ug/mL	002
29)	C465 4-Chloro-3-methylphen	7.95	107	418867	99.06	ug/mL	002
30)	C470 2-Methylnaphthalene	8.02	142	885452	99.18	ug/mL	002
31)	C510 Hexachlorocyclopentad	8.29	237	334233	94.68	ug/mL	003
32)	C515 2,4,6-Trichlorophenol	8.43	196	296076	95.97	ug/mL	003
33)	C520 2,4,5-Trichlorophenol	8.49	196	303440	94.20	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:17 RD 040996

Data File: C:\CHEMPC\DATA\033196\77314.D

Name: SSTD120 6C S-96-092

Misc: HP6*AATSLA*SSTD120*2uL*MS517 000512

Method: OLMO3_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.63	162	853788	95.37	ug/mL	003
36)	C530 2-Nitroaniline	8.84	65	289664	92.39	ug/mL	003
37)	C535 Dimethylphthalate	9.12	163	905872	98.84	ug/mL	003
38)	C540 Acenaphthylene	9.16	152	1229619	94.29	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.22	165	202787	98.04	ug/mL	003
41)	C545 3-Nitroaniline	9.40	138	190820	86.71	ug/mL	003
42)	C550 Acenaphthene	9.42	153	747479	98.79	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.56	184	141837	107.27	ug/mL	003#
44)	C565 Dibenzofuran	9.64	168	1050638	97.54	ug/mL	003
45)	C560 4-Nitrophenol	9.71	109	121421	108.34	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.76	165	246453	93.77	ug/mL	003
47)	C580 Diethylphthalate	10.11	149	829364	96.84	ug/mL	003
48)	C590 Fluorene	10.12	166	781615	98.86	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.14	204	386064	97.72	ug/mL	003
50)	C595 4-Nitroaniline	10.31	138	197178	92.80	ug/mL	003#
51)	C610 4,6-Dinitro-2-methylp	10.36	198	157572	102.11	ug/mL	004#
52)	C615 N-Nitrosodiphenylamin	10.36	169	497408	102.71	ug/mL	004
54)	C625 4-Bromophenyl-phenyle	10.84	248	234289	96.83	ug/mL	004
55)	C630 Hexachlorobenzene	11.05	284	251182	94.37	ug/mL	004
56)	C635 Pentachlorophenol	11.34	266	154796	101.49	ug/mL	004
58)	C640 Phenanthrene	11.52	178	909976	98.98	ug/mL	004
59)	C645 Anthracene	11.60	178	896139	98.51	ug/mL	004
60)	C648 Carbazole	11.89	167	752525	96.60	ug/mL	004
61)	C650 Di-n-butylphthalate	12.56	149	1163777	98.53	ug/mL	004
62)	C655 Fluoranthene	13.37	202	719738	89.19	ug/mL	004
63)	C715 Pyrene	13.71	202	712407	107.70	ug/mL	005
65)	C720 Butylbenzylphthalate	14.90	149	330512	105.95	ug/mL	005
66)	C730 Benzo(a)anthracene	15.61	228	439525	95.97	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.66	252	114754	98.87	ug/mL	005
69)	C740 Chrysene	15.69	228	371809	92.52	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.87	149	363689	102.46	ug/mL	005
71)	C760 Di-n-octylphthalate	16.78	149	524497	108.33	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.23	252	309697	94.34	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.27	252	300453	107.67	ug/mL	006
74)	C775 Benzo(a)pyrene	17.67	252	265636	98.36	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.08	276	277741	95.07	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.11	278	214160	96.33	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.40	276	215901	93.82	ug/mL	006

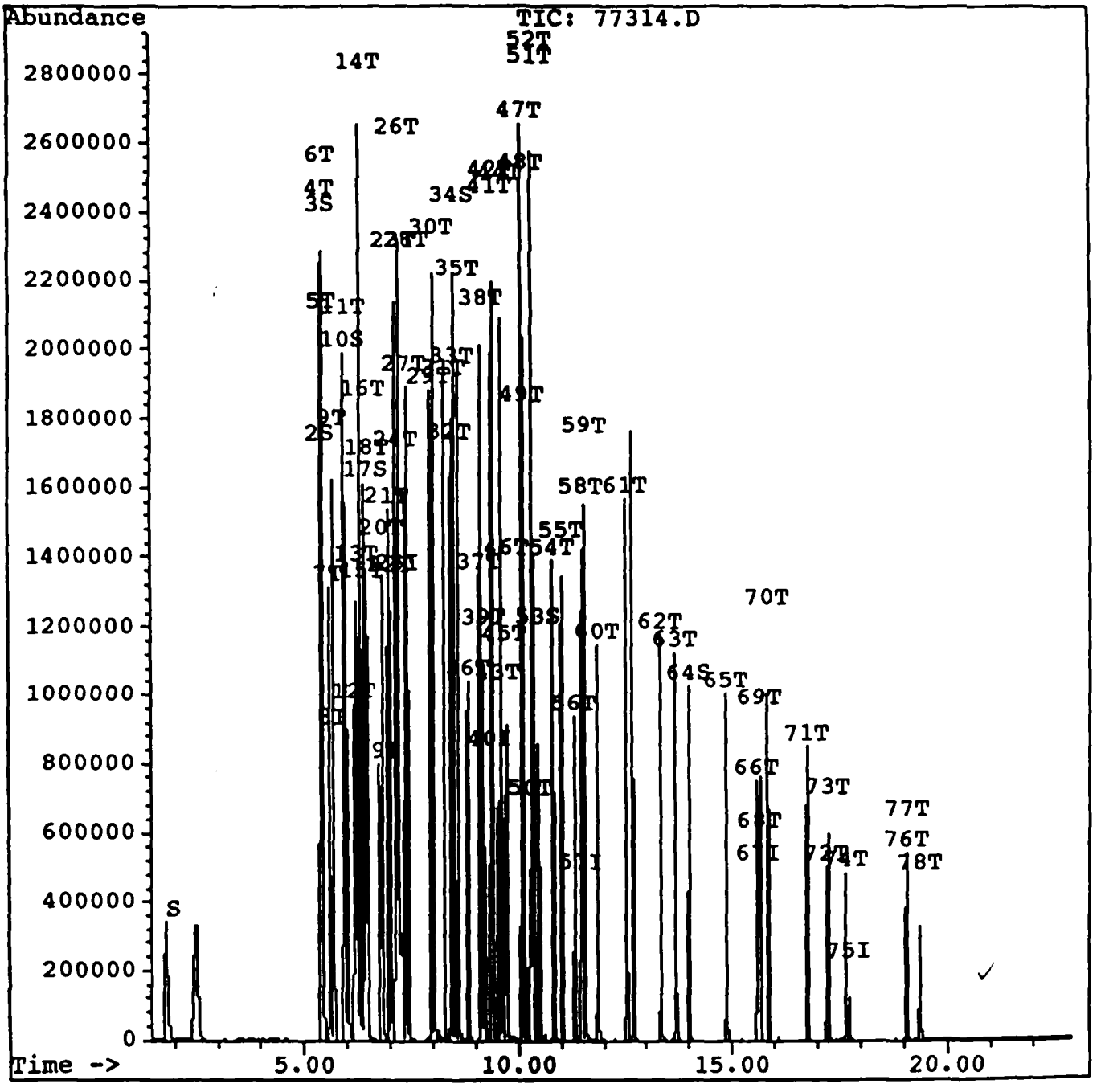
(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:17
Data File: C:\CHEMPC\DATA\033196\77314.D
Name: SSTD120 6 c S-96-092
Misc: HP6*AATSLA*SSTD120*2uL*MS517
Method: OLM03_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 13:19:28 1996
Quantitated using Multiple Level Calibration

RD
040996

000513



QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:46 RD 040996
Data File: C:\CHEMPC\DATA\033196\77315.D
Name: SSTD160 6C S-96-091
Misc: HP6*AATSLA*SSTD160*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE 000514
Last Calibration: Sun Mar 31 13:19:28 1996
Quantitated using Multiple Level Calibration

Internal Standards

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8)	CI30 1,4-Dichlorobenzene-d	5.69	152	127670	40.00	ug/mL	0.01
25)	CI40 Naphthalene-d8	7.22	136	346507	40.00	ug/mL	0.01
40)	CI50 Acenaphthene-d10	9.36	164	170394	40.00	ug/mL	0.00
57)	CI60 Phenanthrene-d10	11.48	188	203879	40.00	ug/mL	0.01
67)	CI70 Chrysene-d12	15.64	240	93163	40.00	ug/mL	0.00
75)	CI75 Perylene-d12	17.75	264	72302	40.00	ug/mL	0.00

System Monitoring Compounds

							%Recovery
1)	CS50 2-Fluorophenol	1.84	112	517199	115.55	ug/mL	77.03%
2)	CS70 2-Chlorophenol-d4	5.42	132	632002	115.81	ug/mL	77.21%
3)	CS45 Phenol-d5	5.45	99	604297	96.12	ug/mL	64.08%
10)	CS75 1,2-Dichlorobenzene-d	5.95	152	444067	115.31	ug/mL	115.31%
17)	CS20 Nitrobenzene-d5	6.49	82	668505	121.52	ug/mL	121.52%
34)	CS25 2-Fluorobiphenyl	8.52	172	988987	124.67	ug/mL	124.67%
53)	CS55 2,4,6-Tribromophenol	10.51	330	114098	116.65	ug/mL	77.77%
64)	CS30 Terphenyl-d14	14.03	244	489368	133.45	ug/mL	133.45%

Target Compounds

							ISTD#
4)	C325 bis(2-Chloroethyl)eth	5.44	93	558913	103.65	ug/mL	001#
5)	C315 Phenol	5.47	94	644188	103.41	ug/mL	001#
6)	C330 2-Chlorophenol	5.44	128	656887	116.72	ug/mL	001
7)	C335 1,3-Dichlorobenzene	5.62	146	715821	114.36	ug/mL	001
9)	C340 1,4-Dichlorobenzene	5.71	146	741785	118.24	ug/mL	001
11)	C350 1,2-Dichlorobenzene	5.97	146	668254	115.24	ug/mL	001
12)	C360 2,2'-oxybis(1-Chlorop	6.19	45	770066	108.74	ug/mL	001
13)	C355 2-Methylphenol	6.26	108	525090	113.27	ug/mL	001
14)	C375 Hexachloroethane	6.32	117	303495	113.63	ug/mL	001
15)	C370 N-Nitroso-di-n-propyl	6.40	70	433836	112.60	ug/mL	001
16)	C365 4-Methylphenol	6.43	108	540119	115.83	ug/mL	001
18)	C410 Nitrobenzene	6.50	77	598429	116.64	ug/mL	002
19)	C415 Isophorone	6.78	82	1161540	119.92	ug/mL	002
20)	C420 2-Nitrophenol	6.84	139	344161	121.42	ug/mL	002
21)	C425 2,4-Dimethylphenol	6.98	107	522472	119.97	ug/mL	002
22)	C435 bis(2-Chloroethoxy)me	7.05	93	715074	119.75	ug/mL	002
23)	C440 2,4-Dichlorophenol	7.14	162	488923	124.80	ug/mL	002
24)	C445 1,2,4-Trichlorobenzen	7.18	180	532539	125.48	ug/mL	002
26)	C450 Naphthalene	7.24	128	1597972	129.87	ug/mL	002
27)	C455 4-Chloroaniline	7.37	127	673510	121.91	ug/mL	002
28)	C460 Hexachlorobutadiene	7.45	225	305783	118.16	ug/mL	002
29)	C465 4-Chloro-3-methylphen	7.95	107	460883	119.58	ug/mL	002
30)	C470 2-Methylnaphthalene	8.03	142	982173	120.70	ug/mL	002
31)	C510 Hexachlorocyclopentad	8.29	237	387216	135.23	ug/mL	003
32)	C515 2,4,6-Trichlorophenol	8.44	196	315227	125.97	ug/mL	003
33)	C520 2,4,5-Trichlorophenol	8.49	196	331274	126.80	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:46

Data File: C:\CHEMPC\DATA\033196\77315.D

Name: SSTD160 6C S-96-091

Misc: HP6*AATSLA*SSTD160*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD 040996

000515

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.63	162	919665	126.66	ug/mL	003
36)	C530 2-Nitroaniline	8.85	65	300964	118.35	ug/mL	003
37)	C535 Dimethylphthalate	9.12	163	917286	123.39	ug/mL	003
38)	C540 Acenaphthylene	9.17	152	1298407	122.75	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.22	165	204609	121.96	ug/mL	003
41)	C545 3-Nitroaniline	9.41	138	194594	109.02	ug/mL	003
42)	C550 Acenaphthene	9.42	153	780937	127.25	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.56	184	145459	135.63	ug/mL	003#
44)	C565 Dibenzofuran	9.64	168	1083992	124.08	ug/mL	003
45)	C560 4-Nitrophenol	9.71	109	118663	130.54	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.76	165	248340	116.49	ug/mL	003
47)	C580 Diethylphthalate	10.11	149	829311	119.39	ug/mL	003
48)	C590 Fluorene	10.12	166	815094	134.29	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.14	204	397726	130.84	ug/mL	003
50)	C595 4-Nitroaniline	10.31	138	198278	124.81	ug/mL	003
51)	C610 4,6-Dinitro-2-methylp	10.36	198	164972	137.81	ug/mL	004#
52)	C615 N-Nitrosodiphenylamin	10.36	169	505934	134.67	ug/mL	004
54)	C625 4-Bromophenyl-phenyle	10.84	248	237720	126.65	ug/mL	004
55)	C630 Hexachlorobenzene	11.05	284	248301	120.26	ug/mL	004
56)	C635 Pentachlorophenol	11.34	266	156340	132.14	ug/mL	004
58)	C640 Phenanthrene	11.53	178	927902	130.10	ug/mL	004
59)	C645 Anthracene	11.60	178	904321	131.22	ug/mL	004
60)	C648 Carbazole	11.89	167	775314	131.92	ug/mL	004
61)	C650 Di-n-butylphthalate	12.56	149	1210082	135.89	ug/mL	004
62)	C655 Fluoranthene	13.37	202	787266	129.54	ug/mL	004
63)	C715 Pyrene	13.71	202	763382	130.97	ug/mL	005
65)	C720 Butylbenzylphthalate	14.90	149	378143	142.51	ug/mL	005
66)	C730 Benzo(a)anthracene	15.62	228	496758	123.06	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.66	252	132538	132.30	ug/mL	005
69)	C740 Chrysene	15.69	228	421305	118.39	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.87	149	422317	136.12	ug/mL	005
71)	C760 Di-n-octylphthalate	16.79	149	634016	148.31	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.24	252	384738	123.33	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.28	252	328917	117.84	ug/mL	006
74)	C775 Benzo(a)pyrene	17.68	252	318572	122.32	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.09	276	335390	119.35	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.11	278	260147	121.08	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.40	276	261441	118.45	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 31 Mar 96 14:46

Data File: C:\CHEMPC\DATA\033196\77315.D

Name: SSTD160@C S-96-091

Misc: HP6*AATSLA*SSTD160*2uL*MS517

Method: OLM03_S.M Inst: HP6

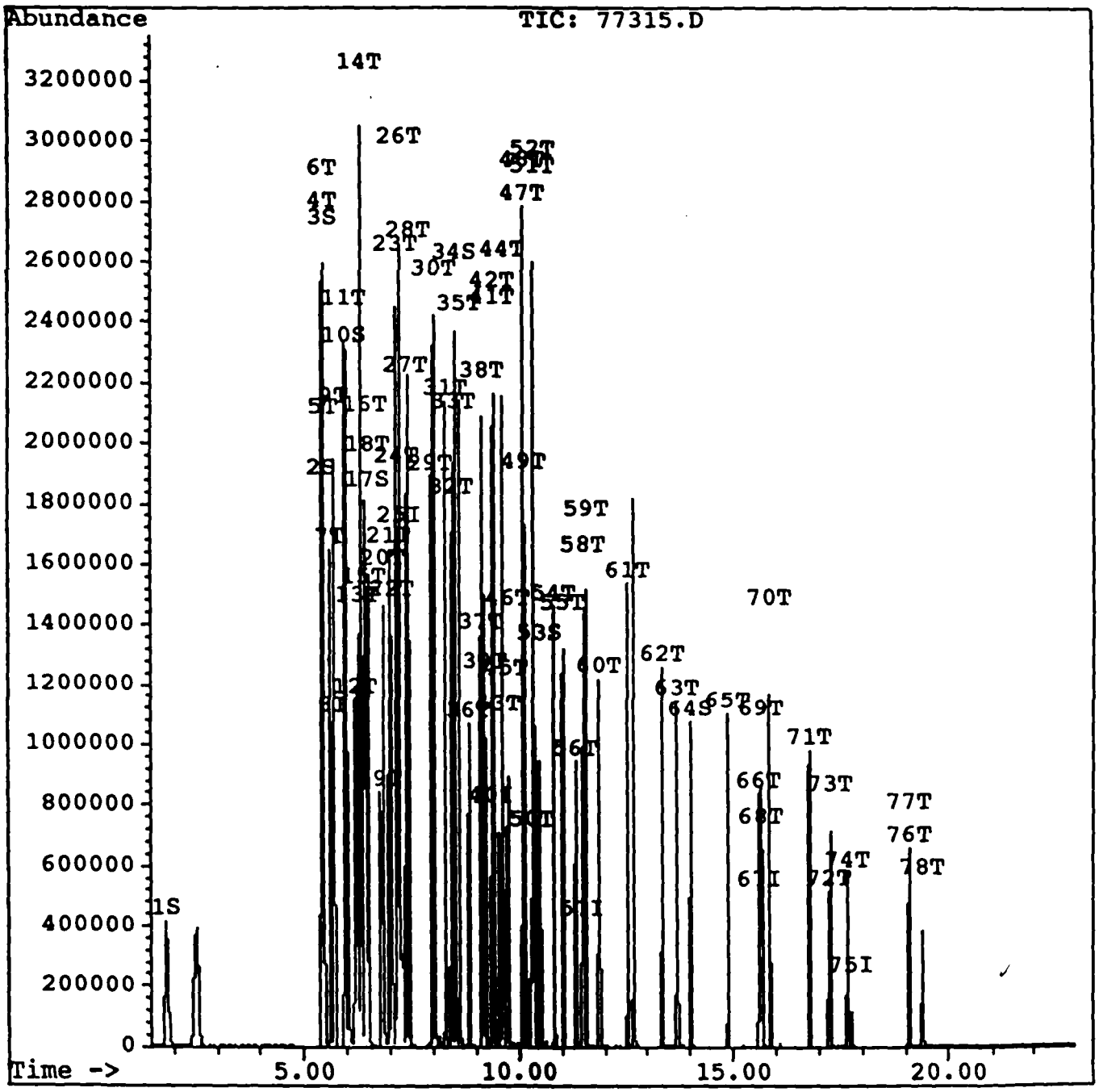
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 13:19:28 1996

Quantitated using Multiple Level Calibration

RD 040996

000516



7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

000517

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP6 Calibration date: 04/04/96 Time: 1750

Lab File ID: 77413 Init. Calib. Date(s): 03/31/96 03/31/96

Init. Calib. Times: 1250 1446

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.462	1.564	0.800	7.0	25.0
bis(2-Chloroethyl)ether	1.274	1.346	0.700	5.7	25.0
2-Chlorophenol	1.352	1.318	0.800	-2.5	25.0
1,3-Dichlorobenzene	1.453	1.430	0.600	-1.6	25.0
1,4-Dichlorobenzene	1.471	1.474	0.500	0.2	25.0
1,2-Dichlorobenzene	1.366	1.334	0.400	-2.3	25.0
2-Methylphenol	1.111	1.017	0.700	-8.5	25.0
2,2'-oxybis(1-Chloropropane)	1.723	1.758		2.0	
4-Methylphenol	1.160	1.060	0.600	-8.6	25.0
N-Nitroso-di-n-propylamine	0.976	0.852	0.500	-12.7	25.0
Hexachloroethane	0.628	0.672	0.300	7.0	25.0
Nitrobenzene	0.451	0.460	0.200	2.0	25.0
Isophorone	0.864	0.737	0.400	-14.7	25.0
2-Nitrophenol	0.246	0.213	0.100	-13.4	25.0
2,4-Dimethylphenol	0.391	0.352	0.200	-10.0	25.0
bis(2-Chloroethoxy)methane	0.534	0.483	0.300	-9.6	25.0
2,4-Dichlorophenol	0.350	0.312	0.200	-10.9	25.0
1,2,4-Trichlorobenzene	0.374	0.362	0.200	-3.2	25.0
Naphthalene	1.129	1.052	0.700	-6.8	25.0
4-Chloroaniline	0.489	0.345		-29.4	
Hexachlorobutadiene	0.219	0.233		6.4	
4-Chloro-3-methylphenol	0.349	0.298	0.200	-14.6	25.0
2-Methylnaphthalene	0.732	0.641	0.400	-12.4	25.0
Hexachlorocyclopentadiene	0.487	0.423		-13.1	
2,4,6-Trichlorophenol	0.444	0.423	0.200	-4.7	25.0
2,4,5-Trichlorophenol	0.468	0.426	0.200	-9.0	25.0
2-Chloronaphthalene	1.286	1.266	0.800	-1.6	25.0
2-Nitroaniline	0.442	0.421		-4.8	
Dimethylphthalate	1.350	1.197		-11.3	
Acenaphthylene	1.886	1.788	1.300	-5.2	25.0
2,6-Dinitrotoluene	0.296	0.259	0.200	-12.5	25.0
3-Nitroaniline	0.278	0.252		-9.4	
Acenaphthene	1.119	1.062	0.800	-5.1	25.0
2,4-Dinitrophenol	0.202	0.114		-43.6	
4-Nitrophenol	0.172	0.139		-19.2	
Dibenzofuran	1.578	1.518	0.800	-3.8	25.0
2,4-Dinitrotoluene	0.373	0.338	0.200	-9.4	25.0

All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP6 Calibration date: 04/04/96 Time: 1750

Lab File ID: 77413 Init. Calib. Date(s): 03/31/96 03/31/96

Init. Calib. Times: 1250 1446

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.252	1.224		-2.2	
4-Chlorophenyl-phenylether	0.579	0.548	0.400	-5.4	25.0
Fluorene	1.184	1.111	0.900	-6.2	25.0
4-Nitroaniline	0.290	0.228		-21.4	
4,6-Dinitro-2-methylphenol	0.188	0.139		-26.1	
N-Nitrosodiphenylamine (1)	0.600	0.584		-2.7	
4-Bromophenyl-phenylether	0.283	0.291	0.100	2.8	25.0
Hexachlorobenzene	0.304	0.337	0.100	10.9	25.0
Pentachlorophenol	0.180	0.149	0.050	-17.2	25.0
Phenanthrene	1.088	1.130	0.700	3.9	25.0
Anthracene	1.080	1.154	0.700	6.9	25.0
Carbazole	0.895	0.934		4.4	
Di-n-butylphthalate	1.384	1.581		14.2	
Fluoranthene	0.887	1.047	0.600	18.0	25.0
Pyrene	2.067	1.439	0.600	-30.4	25.0
Butylbenzylphthalate	0.937	0.809		-13.7	
3,3'-Dichlorobenzidine	0.310	0.287		-7.4	
Benzo(a)anthracene	1.280	1.184	0.800	-7.5	25.0
Chrysene	1.120	1.208	0.700	7.9	25.0
bis(2-Ethylhexyl)phthalate	1.012	1.080		6.7	
Di-n-octylphthalate	2.012	1.696		-15.7	
Benzo(b)fluoranthene	1.296	1.114	0.700	-14.0	25.0
Benzo(k)fluoranthene	1.182	1.088	0.700	-8.0	25.0
Benzo(a)pyrene	1.059	0.995	0.700	-6.0	25.0
Indeno(1,2,3-cd)pyrene	1.076	1.014	0.500	-5.8	25.0
Dibenz(a,h)anthracene	0.824	0.802	0.400	-2.7	25.0
Benzo(g,h,i)perylene	0.845	0.803	0.500	-5.0	25.0
Nitrobenzene-d5	0.480	0.469	0.200	-2.3	25.0
2-Fluorobiphenyl	1.384	1.400	0.700	1.2	25.0
Terphenyl-d14	1.294	0.938	0.500	-27.5	25.0
Phenol-d5	1.379	1.454	0.800	5.4	25.0
2-Fluorophenol	1.010	0.928	0.600	-8.1	25.0
2,4,6-Tribromophenol	0.137	0.144		5.1	
2-Chlorophenol-d4	1.298	1.227	0.800	-5.5	25.0
1,2-Dichlorobenzene-d4	0.883	0.827	0.400	-6.3	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Continuing Calibration File: 77413.D Inst: HP6

000519

PK#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
8	I	CI30 1,4-Dichlorobenzene-d4	1.000	1.000	0.0		
1	S	CS50 2-Fluorophenol	1.010	0.928	8.1	0.600	25.0
2	S	CS45 Phenol-d5	1.379	1.454	5.4	0.800	25.0
3	S	CS70 2-Chlorophenol-d4	1.298	1.227	5.5	0.800	25.0
4	T	C325 bis(2-Chloroethyl)ether	1.274	1.346	5.7	0.700	25.0
5	T	C315 Phenol	1.462	1.564	6.9	0.800	25.0
6	T	C330 2-Chlorophenol	1.353	1.318	2.5	0.800	25.0
7	T	C335 1,3-Dichlorobenzene	1.453	1.430	1.5	0.600	25.0
9	T	C340 1,4-Dichlorobenzene	1.471	1.474	0.2	0.500	25.0
10	S	CS75 1,2-Dichlorobenzene-d4	0.883	0.827	6.3	0.400	25.0
11	T	C350 1,2-Dichlorobenzene	1.336	1.334	2.4	0.400	25.0
12	T	C360 2,2'-oxybis(1-Chloroprop	1.724	1.758	2.0	0.010	
13	T	C355 2-Methylphenol	1.111	1.017	8.5	0.700	25.0
14	T	C375 Hexachloroethane	0.628	0.672	7.0	0.300	25.0
15	T	C370 N-Nitroso-di-n-propylami	0.976	0.852	12.7	0.500	25.0
16	T	C365 4-Methylphenol	1.160	1.060	8.6	0.600	25.0
25	I	CI40 Naphthalene-d8	1.000	1.000	0.0		
17	S	CS20 Nitrobenzene-d5	0.480	0.469	2.3	0.200	25.0
18	T	C410 Nitrobenzene	0.451	0.460	2.1	0.200	25.0
19	T	C415 Isophorone	0.865	0.737	14.7	0.400	25.0
0	T	C420 2-Nitrophenol	0.246	0.213	13.3	0.100	25.0
21	T	C425 2,4-Dimethylphenol	0.392	0.352	10.0	0.200	25.0
22	T	C435 bis(2-Chloroethoxy)metha	0.534	0.483	9.6	0.300	25.0
23	T	C440 2,4-Dichlorophenol	0.350	0.312	10.9	0.200	25.0
24	T	C445 1,2,4-Trichlorobenzene	0.374	0.362	3.2	0.200	25.0
26	T	C450 Naphthalene	1.129	1.052	6.8	0.700	25.0
27	T	C455 4-Chloroaniline	0.489	0.345	29.4	0.010	
28	T	C460 Hexachlorobutadiene	0.219	0.233	6.5	0.010	
29	T	C465 4-Chloro-3-methylphenol	0.349	0.298	14.7	0.200	25.0
30	T	C470 2-Methylnaphthalene	0.732	0.641	12.5	0.400	25.0
40	I	CI50 Acenaphthene-d10	1.000	1.000	0.0		
31	T	C510 Hexachlorocyclopentadien	0.487	0.423	13.1	0.010	
32	T	C515 2,4,6-Trichlorophenol	0.444	0.423	4.6	0.200	25.0
33	T	C520 2,4,5-Trichlorophenol	0.461	0.426	7.7	0.200	25.0
34	S	CS25 2-Fluorobiphenyl	1.384	1.400	1.2	0.700	25.0
35	T	C525 2-Chloronaphthalene	1.286	1.266	1.5	0.800	25.0
36	T	C530 2-Nitroaniline	0.443	0.421	5.1	0.010	
37	T	C535 Dimethylphthalate	1.350	1.197	11.3	0.010	
38	T	C540 Acenaphthylene	1.886	1.788	5.2	0.900	25.0
39	T	C543 2,6-Dinitrotoluene	0.296	0.259	12.2	0.200	25.0
41	T	C545 3-Nitroaniline	0.276	0.252	8.5	0.010	
42	T	C550 Acenaphthene	1.120	1.062	5.2	0.900	25.0
43	T	C555 2,4-Dinitrophenol	0.185	0.114	38.3	0.010	
44	T	C565 Dibenzofuran	1.578	1.518	3.8	0.800	25.0
45	T	C560 4-Nitrophenol	0.162	0.139	13.8	0.010	
46	T	C570 2,4-Dinitrotoluene	0.373	0.338	9.3	0.200	25.0

(*) = Out of Range (**) = % Dev fails CLP maximum acceptance criteria

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Continuing Calibration File: 77413.D Inst: HP6

000520

RK#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
47	T	C580 Diethylphthalate	1.252	1.224	2.2	0.010	
48	T	C590 Fluorene	1.184	1.111	6.2	0.900	25.0
49	T	C585 4-Chlorophenyl-phenyleth	0.579	0.548	5.3	0.400	25.0
50	T	C595 4-Nitroaniline	0.281	0.228	18.7	0.010	
57	I	CI60 Phenanthrene-d10	1.000	1.000	0.0		
51	T	C615 N-Nitrosodiphenylamine	0.600	0.584	2.5	0.010	
52	T	C610 4,6-Dinitro-2-methylphen	0.177	0.139	21.5	0.010	
53	S	CS55 2,4,6-Tribromophenol	0.137	0.144	5.5	0.010	
54	T	C625 4-Bromophenyl-phenylethe	0.283	0.291	2.6	0.100	25.0
55	T	C630 Hexachlorobenzene	0.304	0.337	11.0	0.100	25.0
56	T	C635 Pentachlorophenol	0.170	0.149	12.4	0.050	25.0
58	T	C640 Phenanthrene	1.088	1.130	3.9	0.700	25.0
59	T	C645 Anthracene	1.080	1.154	6.8	0.700	25.0
60	T	C648 Carbazole	0.895	0.934	4.4	0.010	
61	T	C650 Di-n-butylphthalate	1.384	1.581	14.2	0.010	
62	T	C655 Fluoranthene	0.898	1.047	18.0	0.600	25.0
67	I	CI70 Chrysene-d12	1.000	1.000	0.0		
63	T	C715 Pyrene	2.067	1.439	30.4*	0.600	25.0
64	S	CS30 Terphenyl-d14	1.294	0.938	27.6*	0.500	25.0
65	T	C720 Butylbenzylphthalate	0.937	0.809	13.6	0.010	
6	T	C730 Benzo(a)anthracene	1.280	1.184	7.5	0.800	25.0
68	T	C725 3,3'-Dichlorobenzidine	0.310	0.287	7.5	0.010	
69	T	C740 Chrysene	1.120	1.208	7.9	0.700	25.0
70	T	C745 bis(2-Ethylhexyl)phthala	1.012	1.080	6.8	0.010	
75	I	CI75 Perylene-d12	1.000	1.000	0.0		
71	T	C760 Di-n-octylphthalate	2.012	1.696	15.7	0.010	
72	T	C765 Benzo(b)fluoranthene	1.296	1.114	14.1	0.700	25.0
73	T	C770 Benzo(k)fluoranthene	1.182	1.088	8.0	0.700	25.0
74	T	C775 Benzo(a)pyrene	1.059	0.994	6.1	0.700	25.0
76	T	C780 Indeno(1,2,3-cd)pyrene	1.076	1.014	5.8	0.500	25.0
77	T	C785 Dibenz(a,h)anthracene	0.824	0.802	2.7	0.400	25.0
78	T	C790 Benzo(g,h,i)perylene	0.845	0.803	5.0	0.500	25.0

(*) = QC Criteria Failed (**) = > 40 % Dev., Reanalyze Standard

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 17:50
Data File: C:\CHEMPC\DATA\040496\77413.D
Name: SSTD050 4R 7/1/96-090
Misc: HP6*AATSLA*SSTD050*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 15:53:44 1996
Quantitated using Multiple Level Calibration

000521

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	67676	40.00	ug/mL	-0.05
25) CI40 Naphthalene-d8	7.16	136	198547	40.00	ug/mL	-0.05
40) CI50 Acenaphthene-d10	9.30	164	92655	40.00	ug/mL	-0.06
57) CI60 Phenanthrene-d10	11.42	188	108739	40.00	ug/mL	-0.06
67) CI70 Chrysene-d12	15.58	240	82765	40.00	ug/mL	-0.06
75) CI75 Perylene-d12	17.69	264	91714	40.00	ug/mL	-0.05
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.73	112	78515	45.95	ug/mL	30.63%
2) CS70 2-Chlorophenol-d4	5.34	132	103773	47.25	ug/mL	31.50%
4) CS45 Phenol-d5	5.34	99	122996	52.71	ug/mL	35.14%
10) CS75 1,2-Dichlorobenzene-d	5.89	152	69999	46.84	ug/mL	46.84%
17) CS20 Nitrobenzene-d5	6.41	82	116329	48.86	ug/mL	48.86%
34) CS25 2-Fluorobiphenyl	8.45	172	162181	50.59	ug/mL	50.59%
53) CS55 2,4,6-Tribromophenol	10.44	330	19583	52.74	ug/mL	35.16%
64) CS30 Terphenyl-d14	13.96	244	96999	36.22	ug/mL	36.22%
Target Compounds						ISTD#
3) C325 bis(2-Chloroethyl)eth	5.37	93	113894	52.83	ug/mL	001#
5) C330 2-Chlorophenol	5.37	128	111510	48.73	ug/mL	001
6) C315 Phenol	5.37	94	132297	53.47	ug/mL	001#
7) C335 1,3-Dichlorobenzene	5.56	146	121010	49.23	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.65	146	124731	50.11	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.91	146	112821	48.80	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.13	45	148722	51.00	ug/mL	001
13) C355 2-Methylphenol	6.18	108	86037	45.75	ug/mL	001
14) C375 Hexachloroethane	6.28	117	56867	53.48	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.31	70	72068	43.65	ug/mL	001
16) C365 4-Methylphenol	6.35	108	89688	45.70	ug/mL	001
18) C410 Nitrobenzene	6.42	77	114210	51.07	ug/mL	002
19) C415 Isophorone	6.69	82	182935	42.63	ug/mL	002
20) C420 2-Nitrophenol	6.79	139	52976	43.37	ug/mL	002
21) C425 2,4-Dimethylphenol	6.90	107	87418	44.98	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	6.98	93	119859	45.19	ug/mL	002
23) C440 2,4-Dichlorophenol	7.06	162	77317	44.54	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.13	180	89788	48.39	ug/mL	002
26) C450 Naphthalene	7.18	128	261025	46.58	ug/mL	002
27) C455 4-Chloroaniline	7.32	127	85573	35.28	ug/mL	002
28) C460 Hexachlorobutadiene	7.40	225	57907	53.27	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.90	107	73938	42.64	ug/mL	002
30) C470 2-Methylnaphthalene	7.98	142	159020	43.75	ug/mL	002
31) C510 Hexachlorocyclopentad	8.24	237	49003	43.45	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.37	196	49013	47.68	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.43	196	49353	46.17	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 17:50

Data File: C:\CHEMPC\DATA\040496\77413.D

Name: SSTD050 4/4/96 S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Sun Mar 31 15:53:44 1996

Quantitated using Multiple Level Calibration

000522

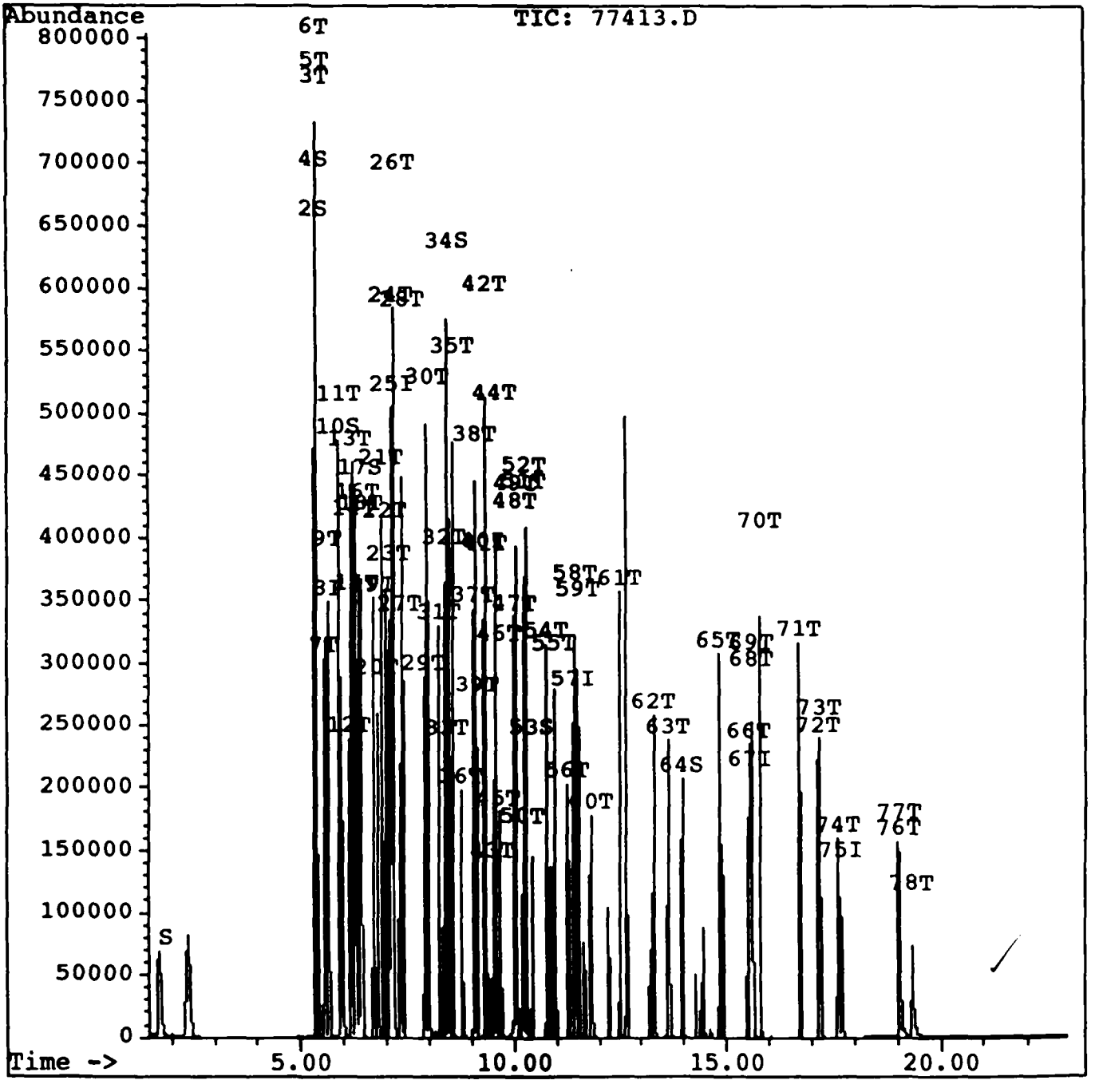
	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.56	162	146607	49.23	ug/mL	003
36)	C530 2-Nitroaniline	8.77	65	48726	47.47	ug/mL	003#
37)	C535 Dimethylphthalate	9.05	163	138647	44.34	ug/mL	003
38)	C540 Acenaphthylene	9.10	152	207031	47.40	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.14	165	30044	43.88	ug/mL	003
41)	C545 3-Nitroaniline	9.33	138	29225	45.74	ug/mL	003
42)	C550 Acenaphthene	9.34	153	122958	47.41	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.50	184	13253	30.85	ug/mL	003#
44)	C565 Dibenzofuran	9.57	168	175757	48.09	ug/mL	003
45)	C560 4-Nitrophenol	9.63	109	16124	43.09	ug/mL	003
46)	C570 2,4-Dinitrotoluene	9.68	165	39138	45.34	ug/mL	003#
47)	C580 Diethylphthalate	10.02	149	141706	48.88	ug/mL	003
48)	C590 Fluorene	10.05	166	128635	46.92	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.07	204	63517	47.33	ug/mL	003
50)	C595 4-Nitroaniline	10.20	138	26431	40.64	ug/mL	003
51)	C615 N-Nitrosodiphenylamin	10.26	169	79436	48.73	ug/mL	004
52)	C610 4,6-Dinitro-2-methylp	10.26	198	18930	39.23	ug/mL	004#
54)	C625 4-Bromophenyl-phenyle	10.77	248	39525	51.32	ug/mL	004
55)	C630 Hexachlorobenzene	10.97	284	45811	55.52	ug/mL	004
56)	C635 Pentachlorophenol	11.27	266	20292	43.81	ug/mL	004
58)	C640 Phenanthrene	11.45	178	153619	51.94	ug/mL	004
59)	C645 Anthracene	11.52	178	156873	53.42	ug/mL	004
60)	C648 Carbazole	11.81	167	126964	52.18	ug/mL	004
61)	C650 Di-n-butylphthalate	12.49	149	214865	57.10	ug/mL	004
62)	C655 Fluoranthene	13.30	202	142312	58.98	ug/mL	004
63)	C715 Pyrene	13.64	202	148906	34.82	ug/mL	005
65)	C720 Butylbenzylphthalate	14.84	149	83734	43.21	ug/mL	005
66)	C730 Benzo(a)anthracene	15.55	228	122473	46.23	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.60	252	29649	46.24	ug/mL	005
69)	C740 Chrysene	15.61	228	124990	53.96	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.81	149	111764	53.38	ug/mL	005
71)	C760 Di-n-octylphthalate	16.73	149	194450	42.15	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.17	252	127658	42.95	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.20	252	124691	46.02	ug/mL	006
74)	C775 Benzo(a)pyrene	17.62	252	114012	46.96	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.02	276	116236	47.10	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.05	278	91891	48.65	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.34	276	92054	47.52	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 17:50
Data File: C:\CHEMPC\DATA\040496\77413.D
Name: SSTD050 R 4/4/96 S-96-090
Misc: HP6*AATSLA*SSTD050*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 15:53:44 1996
Quantitated using Multiple Level Calibration

000523



7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

000524

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP6 Calibration date: 04/05/96 Time: 1321

Lab File ID: 77434 Init. Calib. Date(s): 03/31/96 03/31/96

Init. Calib. Times: 1250 1446

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.462	1.420	0.800	-2.9	25.0
bis(2-Chloroethyl)ether	1.274	1.227	0.700	-3.7	25.0
2-Chlorophenol	1.352	1.235	0.800	-8.7	25.0
1,3-Dichlorobenzene	1.453	1.466	0.600	0.9	25.0
1,4-Dichlorobenzene	1.471	1.460	0.500	-0.7	25.0
1,2-Dichlorobenzene	1.366	1.328	0.400	-2.8	25.0
2-Methylphenol	1.111	0.948	0.700	-14.7	25.0
2,2'-oxybis(1-Chloropropane)	1.723	1.536		-10.8	
4-Methylphenol	1.160	0.889	0.600	-23.4	25.0
N-Nitroso-di-n-propylamine	0.976	0.766	0.500	-21.5	25.0
Hexachloroethane	0.628	0.701	0.300	11.6	25.0
Nitrobenzene	0.451	0.466	0.200	3.3	25.0
Isophorone	0.864	0.684	0.400	-20.8	25.0
2-Nitrophenol	0.246	0.193	0.100	-21.5	25.0
2,4-Dimethylphenol	0.391	0.340	0.200	-13.0	25.0
bis(2-Chloroethoxy)methane	0.534	0.448	0.300	-16.1	25.0
2,4-Dichlorophenol	0.350	0.267	0.200	-23.7	25.0
1,2,4-Trichlorobenzene	0.374	0.367	0.200	-1.9	25.0
Naphthalene	1.129	1.034	0.700	-8.4	25.0
4-Chloroaniline	0.489	0.359		-26.6	
Hexachlorobutadiene	0.219	0.242		10.5	
4-Chloro-3-methylphenol	0.349	0.278	0.200	-20.3	25.0
2-Methylnaphthalene	0.732	0.643	0.400	-12.2	25.0
Hexachlorocyclopentadiene	0.487	0.337		-30.8	
2,4,6-Trichlorophenol	0.444	0.391	0.200	-11.9	25.0
2,4,5-Trichlorophenol	0.468	0.417	0.200	-10.9	25.0
2-Chloronaphthalene	1.286	1.194	0.800	-7.2	25.0
2-Nitroaniline	0.442	0.403		-8.8	
Dimethylphthalate	1.350	1.288		-4.6	
Acenaphthylene	1.886	1.813	1.300	-3.9	25.0
2,6-Dinitrotoluene	0.296	0.269	0.200	-9.1	25.0
3-Nitroaniline	0.278	0.265		-4.7	
Acenaphthene	1.119	1.067	0.800	-4.6	25.0
2,4-Dinitrophenol	0.202	0.100		-50.5	
4-Nitrophenol	0.172	0.125		-27.3	
Dibenzofuran	1.578	1.527	0.800	-3.2	25.0
2,4-Dinitrotoluene	0.373	0.361	0.200	-3.2	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

000525

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP6 Calibration date: 04/05/96 Time: 1321

Lab File ID: 77434 Init. Calib. Date(s): 03/31/96 03/31/96

Init. Calib. Times: 1250 1446

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.252	1.306		4.3	
4-Chlorophenyl-phenylether	0.579	0.597	0.400	3.1	25.0
Fluorene	1.184	1.174	0.900	-0.8	25.0
4-Nitroaniline	0.290	0.242		-16.6	
4,6-Dinitro-2-methylphenol	0.188	0.109		-42.0	
N-Nitrosodiphenylamine (1)	0.600	0.569		-5.2	
4-Bromophenyl-phenylether	0.283	0.276	0.100	-2.5	25.0
Hexachlorobenzene	0.304	0.331	0.100	8.9	25.0
Pentachlorophenol	0.180	0.145	0.050	-19.4	25.0
Phenanthrene	1.088	1.152	0.700	5.9	25.0
Anthracene	1.080	1.155	0.700	6.9	25.0
Carbazole	0.895	0.979		9.4	
Di-n-butylphthalate	1.384	1.699		22.8	
Fluoranthene	0.887	1.202	0.600	35.5	25.0
Pyrene	2.067	1.275	0.600	-38.3	25.0
Butylbenzylphthalate	0.937	0.741		-20.9	
3,3'-Dichlorobenzidine	0.310	0.325		4.8	
Benzo(a)anthracene	1.280	1.128	0.800	-11.9	25.0
Chrysene	1.120	1.176	0.700	5.0	25.0
bis(2-Ethylhexyl)phthalate	1.012	1.004		-0.8	
Di-n-octylphthalate	2.012	1.788		-11.1	
Benzo(b)fluoranthene	1.296	1.056	0.700	-18.5	25.0
Benzo(k)fluoranthene	1.182	1.252	0.700	5.9	25.0
Benzo(a)pyrene	1.059	0.980	0.700	-7.5	25.0
Indeno(1,2,3-cd)pyrene	1.076	1.180	0.500	9.7	25.0
Dibenz(a,h)anthracene	0.824	0.875	0.400	6.2	25.0
Benzo(g,h,i)perylene	0.845	0.968	0.500	14.6	25.0
Nitrobenzene-d5	0.480	0.469	0.200	-2.3	25.0
2-Fluorobiphenyl	1.384	1.345	0.700	-2.8	25.0
Terphenyl-d14	1.294	0.862	0.500	-33.4	25.0
Phenol-d5	1.379	1.306	0.800	-5.3	25.0
2-Fluorophenol	1.010	0.724	0.600	-28.3	25.0
2,4,6-Tribromophenol	0.137	0.144		5.1	
2-Chlorophenol-d4	1.298	1.129	0.800	-13.0	25.0
1,2-Dichlorobenzene-d4	0.883	0.834	0.400	-5.5	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Continuing Calibration File: 77434.D Inst: HP6

000526

PK#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
8	I	CI30 1,4-Dichlorobenzene-d4	1.000	1.000	0.0		
1	S	CS50 2-Fluorophenol	1.010	0.724	28.4*	0.600	25.0
2	S	CS45 Phenol-d5	1.379	1.306	5.3	0.800	25.0
3	S	CS70 2-Chlorophenol-d4	1.298	1.129	13.0	0.800	25.0
4	T	C315 Phenol	1.462	1.420	2.9	0.800	25.0
5	T	C325 bis(2-Chloroethyl)ether	1.274	1.227	3.7	0.700	25.0
6	T	C330 2-Chlorophenol	1.353	1.235	8.7	0.800	25.0
7	T	C335 1,3-Dichlorobenzene	1.453	1.466	0.9	0.600	25.0
9	T	C340 1,4-Dichlorobenzene	1.471	1.460	0.8	0.500	25.0
10	S	CS75 1,2-Dichlorobenzene-d4	0.883	0.834	5.6	0.400	25.0
11	T	C350 1,2-Dichlorobenzene	1.366	1.328	2.8	0.400	25.0
12	T	C360 2,2'-oxybis(1-Chloroprop	1.724	1.536	10.9	0.010	
13	T	C355 2-Methylphenol	1.111	0.948	14.7	0.700	25.0
14	T	C375 Hexachloroethane	0.628	0.701	11.5	0.300	25.0
15	T	C370 N-Nitroso-di-n-propylami	0.976	0.766	21.5	0.500	25.0
16	T	C365 4-Methylphenol	1.160	0.889	23.3	0.600	25.0
25	I	CI40 Naphthalene-d8	1.000	1.000	0.0		
17	S	CS20 Nitrobenzene-d5	0.480	0.469	2.2	0.200	25.0
18	T	C410 Nitrobenzene	0.451	0.466	3.4	0.200	25.0
19	T	C415 Isophorone	0.865	0.684	20.9	0.400	25.0
0	T	C420 2-Nitrophenol	0.246	0.193	21.6	0.100	25.0
21	T	C425 2,4-Dimethylphenol	0.392	0.340	13.1	0.200	25.0
22	T	C435 bis(2-Chloroethoxy)metha	0.534	0.448	16.2	0.300	25.0
23	T	C440 2,4-Dichlorophenol	0.350	0.267	23.7	0.200	25.0
24	T	C445 1,2,4-Trichlorobenzene	0.374	0.367	1.9	0.200	25.0
26	T	C450 Naphthalene	1.129	1.034	8.4	0.700	25.0
27	T	C455 4-Chloroaniline	0.489	0.359	26.6	0.010	
28	T	C460 Hexachlorobutadiene	0.219	0.242	10.7	0.010	
29	T	C465 4-Chloro-3-methylphenol	0.349	0.278	20.5	0.200	25.0
30	T	C470 2-Methylnaphthalene	0.732	0.643	12.2	0.400	25.0
40	I	CI50 Acenaphthene-d10	1.000	1.000	0.0		
31	T	C510 Hexachlorocyclopentadien	0.487	0.337	30.8	0.010	
32	T	C515 2,4,6-Trichlorophenol	0.444	0.391	11.9	0.200	25.0
33	T	C520 2,4,5-Trichlorophenol	0.461	0.417	9.7	0.200	25.0
34	S	CS25 2-Fluorobiphenyl	1.384	1.345	2.8	0.700	25.0
35	T	C525 2-Chloronaphthalene	1.286	1.194	7.1	0.800	25.0
36	T	C530 2-Nitroaniline	0.443	0.403	9.0	0.010	
37	T	C535 Dimethylphthalate	1.350	1.288	4.6	0.010	
38	T	C540 Acenaphthylene	1.886	1.813	3.9	0.900	25.0
39	T	C543 2,6-Dinitrotoluene	0.296	0.269	9.1	0.200	25.0
41	T	C545 3-Nitroaniline	0.276	0.265	3.9	0.010	
42	T	C550 Acenaphthene	1.120	1.067	4.7	0.900	25.0
43	T	C555 2,4-Dinitrophenol	0.185	0.100	46.2	0.010	
44	T	C565 Dibenzofuran	1.578	1.527	3.3	0.800	25.0
5	T	C560 4-Nitrophenol	0.162	0.125	22.6	0.010	
6	T	C570 2,4-Dinitrotoluene	0.373	0.361	3.1	0.200	25.0

(*) = Out of Range (**) = % Dev fails CLP maximum acceptance criteria

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90

000527

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Continuing Calibration File: 77434.D Inst: HP6

PK#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
47	T	C580 Diethylphthalate	1.252	1.306	4.3	0.010	
48	T	C590 Fluorene	1.184	1.174	0.8	0.900	25.0
49	T	C585 4-Chlorophenyl-phenyleth	0.579	0.597	3.0	0.400	25.0
50	T	C595 4-Nitroaniline	0.281	0.242	13.9	0.010	
57	I	CI60 Phenanthrene-d10	1.000	1.000	0.0		
51	T	C615 N-Nitrosodiphenylamine	0.600	0.569	5.1	0.010	
52	T	C610 4,6-Dinitro-2-methylphen	0.177	0.109	38.5	0.010	
53	S	CS55 2,4,6-Tribromophenol	0.137	0.144	5.2	0.010	
54	T	C625 4-Bromophenyl-phenylethe	0.283	0.276	2.5	0.100	25.0
55	T	C630 Hexachlorobenzene	0.304	0.331	9.2	0.100	25.0
56	T	C635 Pentachlorophenol	0.170	0.145	14.7	0.050	25.0
58	T	C640 Phenanthrene	1.088	1.152	5.9	0.700	25.0
59	T	C645 Anthracene	1.080	1.155	7.0	0.700	25.0
60	T	C648 Carbazole	0.895	0.979	9.4	0.010	
61	T	C650 Di-n-butylphthalate	1.384	1.699	22.7	0.010	
62	T	C655 Fluoranthene	0.888	1.202	35.5*	0.600	25.0
67	I	CI70 Chrysene-d12	1.000	1.000	0.0		
63	T	C715 Pyrene	2.067	1.275	38.3*	0.600	25.0
64	S	CS30 Terphenyl-d14	1.294	0.862	33.4*	0.500	25.0
65	T	C720 Butylbenzylphthalate	0.937	0.741	20.9	0.010	
6	T	C730 Benzo(a)anthracene	1.280	1.128	11.9	0.800	25.0
68	T	C725 3,3'-Dichlorobenzidine	0.310	0.325	4.9	0.010	
69	T	C740 Chrysene	1.120	1.176	5.1	0.700	25.0
70	T	C745 bis(2-Ethylhexyl)phthala	1.012	1.004	0.8	0.010	
75	I	CI75 Perylene-d12	1.000	1.000	0.0		
71	T	C760 Di-n-octylphthalate	2.012	1.788	11.1	0.010	
72	T	C765 Benzo(b)fluoranthene	1.296	1.056	18.6	0.700	25.0
73	T	C770 Benzo(k)fluoranthene	1.182	1.252	6.0	0.700	25.0
74	T	C775 Benzo(a)pyrene	1.059	0.980	7.5	0.700	25.0
76	T	C780 Indeno(1,2,3-cd)pyrene	1.076	1.180	9.6	0.500	25.0
77	T	C785 Dibenz(a,h)anthracene	0.824	0.875	6.2	0.400	25.0
78	T	C790 Benzo(g,h,i)perylene	0.845	0.968	14.6	0.500	25.0

(*) = QC Criteria Failed (**) = > 40 % Dev., Reanalyze Standard

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 13:21
Data File: C:\CHEMPC\DATA\040596\77434.D
Name: SSTD050 4/5/96 S-96-090
Misc: HP6*AATSLA*SSTD050*2uL*MS517
Method: OLM03_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 15:53:44 1996
Quantitated using Multiple Level Calibration

000528

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
Internal Standards						
8) CI30 1,4-Dichlorobenzene-d	5.61	152	37142	40.00	ug/mL	-0.06
25) CI40 Naphthalene-d8	7.15	136	102543	40.00	ug/mL	-0.06
40) CI50 Acenaphthene-d10	9.29	164	50623	40.00	ug/mL	-0.07
57) CI60 Phenanthrene-d10	11.40	188	69129	40.00	ug/mL	-0.08
67) CI70 Chrysene-d12	15.56	240	70637	40.00	ug/mL	-0.07
75) CI75 Perylene-d12	17.68	264	69564	40.00	ug/mL	-0.06
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.71	112	33595	35.82	ug/mL	23.88%
2) CS70 2-Chlorophenol-d4	5.33	132	52426	43.49	ug/mL	28.99%
4) CS45 Phenol-d5	5.33	99	60634	47.35	ug/mL	31.57%
10) CS75 1,2-Dichlorobenzene-d	5.88	152	38729	47.22	ug/mL	47.22%
17) CS20 Nitrobenzene-d5	6.40	82	60150	48.91	ug/mL	48.91%
34) CS25 2-Fluorobiphenyl	8.44	172	85116	48.59	ug/mL	48.59%
53) CS55 2,4,6-Tribromophenol	10.43	330	12419	52.61	ug/mL	35.08%
64) CS30 Terphenyl-d14	13.96	244	76137	33.31	ug/mL	33.31%
Target Compounds						ISTD#
3) C325 bis(2-Chloroethyl)eth	5.35	93	56953	48.14	ug/mL	001#
5) C330 2-Chlorophenol	5.36	128	57360	45.67	ug/mL	001#
6) C315 Phenol	5.34	94	65926	48.55	ug/mL	001#
7) C335 1,3-Dichlorobenzene	5.55	146	68078	50.46	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.64	146	67791	49.62	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.90	146	61643	48.58	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.13	45	71322	44.57	ug/mL	001
13) C355 2-Methylphenol	6.17	108	44001	42.64	ug/mL	001
14) C375 Hexachloroethane	6.26	117	32527	55.74	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.29	70	35572	39.26	ug/mL	001
16) C365 4-Methylphenol	6.34	108	41290	38.34	ug/mL	001
18) C410 Nitrobenzene	6.42	77	59697	51.69	ug/mL	002
19) C415 Isophorone	6.68	82	87621	39.53	ug/mL	002
20) C420 2-Nitrophenol	6.79	139	24739	39.21	ug/mL	002#
21) C425 2,4-Dimethylphenol	6.89	107	43631	43.47	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	6.97	93	57398	41.90	ug/mL	002
23) C440 2,4-Dichlorophenol	7.06	162	34214	38.16	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.12	180	47019	49.07	ug/mL	002
26) C450 Naphthalene	7.17	128	132587	45.81	ug/mL	002
27) C455 4-Chloroaniline	7.32	127	45987	36.71	ug/mL	002
28) C460 Hexachlorobutadiene	7.39	225	31061	55.33	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.89	107	35591	39.74	ug/mL	002
30) C470 2-Methylnaphthalene	7.97	142	82390	43.89	ug/mL	002
31) C510 Hexachlorocyclopentad	8.23	237	21313	34.59	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.37	196	24752	44.07	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.43	196	26357	45.13	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 13:21
Data File: C:\CHEMPC\DATA\040596\77434.D
Name: SSTD050 4/4/96 S-96-090
Misc: HP6*AATSLA*SSTD050*2uL*MS517
Method: OLM03_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 15:53:44 1996
Quantitated using Multiple Level Calibration

000529

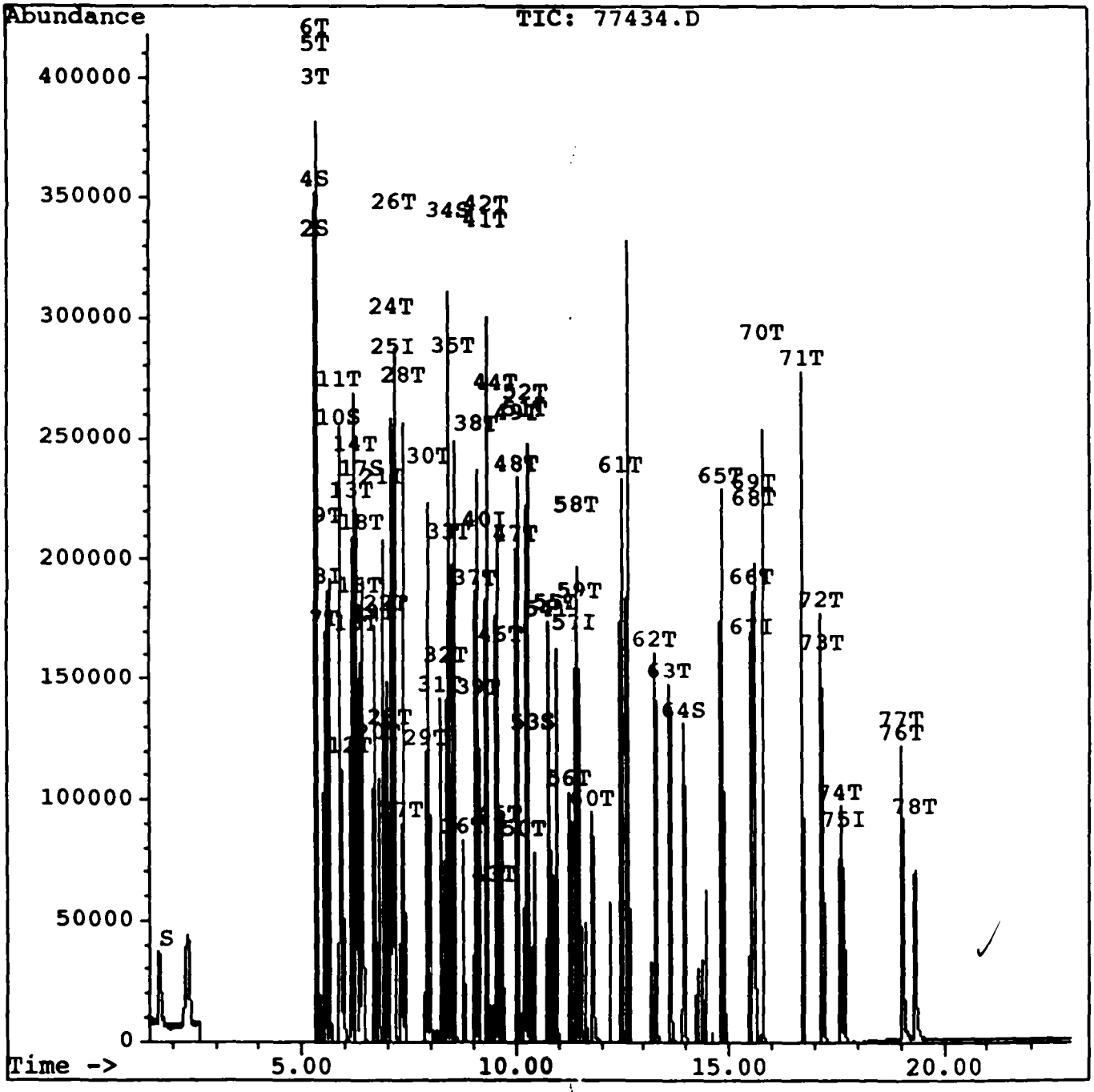
	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.55	162	75548	46.43	ug/mL	003
36)	C530 2-Nitroaniline	8.77	65	25527	45.52	ug/mL	003#
37)	C535 Dimethylphthalate	9.04	163	81491	47.70	ug/mL	003
38)	C540 Acenaphthylene	9.09	152	114700	48.06	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.13	165	16998	45.44	ug/mL	003#
41)	C545 3-Nitroaniline	9.33	138	16770	48.04	ug/mL	003
42)	C550 Acenaphthene	9.33	153	67547	47.67	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.50	184	6311	26.89	ug/mL	003#
44)	C565 Dibenzofuran	9.56	168	96601	48.37	ug/mL	003
45)	C560 4-Nitrophenol	9.63	109	7911	38.70	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.68	165	22837	48.43	ug/mL	003#
47)	C580 Diethylphthalate	10.01	149	82625	52.16	ug/mL	003
48)	C590 Fluorene	10.04	166	74300	49.60	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.06	204	37761	51.50	ug/mL	003
50)	C595 4-Nitroaniline	10.19	138	15302	43.06	ug/mL	003
51)	C615 N-Nitrosodiphenylamin	10.25	169	49161	47.44	ug/mL	004
52)	C610 4,6-Dinitro-2-methylp	10.26	198	9436	30.76	ug/mL	004#
54)	C625 4-Bromophenyl-phenyle	10.76	248	23878	48.77	ug/mL	004#
55)	C630 Hexachlorobenzene	10.96	284	28638	54.59	ug/mL	004
56)	C635 Pentachlorophenol	11.27	266	12563	42.67	ug/mL	004
58)	C640 Phenanthrene	11.44	178	99526	52.93	ug/mL	004
59)	C645 Anthracene	11.51	178	99840	53.48	ug/mL	004
60)	C648 Carbazole	11.81	167	84594	54.69	ug/mL	004
61)	C650 Di-n-butylphthalate	12.48	149	146788	61.35	ug/mL	004
62)	C655 Fluoranthene	13.29	202	103899	67.73	ug/mL	004
63)	C715 Pyrene	13.68	202	112618	30.86	ug/mL	005
65)	C720 Butylbenzylphthalate	14.83	149	65428	39.56	ug/mL	005
66)	C730 Benzo(a)anthracene	15.54	228	99586	44.04	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.59	252	28715	52.47	ug/mL	005
69)	C740 Chrysene	15.61	228	103859	52.53	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.80	149	88626	49.59	ug/mL	005
71)	C760 Di-n-octylphthalate	16.72	149	155516	44.45	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.16	252	91787	40.72	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.20	252	108909	52.99	ug/mL	006
74)	C775 Benzo(a)pyrene	17.61	252	85205	46.27	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	19.02	276	102605	54.82	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.03	278	76044	53.08	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.32	276	84205	57.30	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 13:21
Data File: C:\CHEMPC\DATA\040596\77434.D
Name: SSTD050 65 4/4/96 S-96-090
Misc: HP6*AATSLA*SSTD050*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Sun Mar 31 15:53:44 1996
Quantitated using Multiple Level Calibration

000530



SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP6 Calibration date: 04/10/96 Time: 1147

Lab File ID: 77491 Init. Calib. Date(s): 03/31/96 03/31/96

Init. Calib. Times: 1250 1446

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.462	1.599	0.800	9.4	25.0
bis(2-Chloroethyl)ether	1.274	1.423	0.700	11.7	25.0
2-Chlorophenol	1.352	1.390	0.800	2.8	25.0
1,3-Dichlorobenzene	1.453	1.451	0.600	-0.1	25.0
1,4-Dichlorobenzene	1.471	1.495	0.500	1.6	25.0
1,2-Dichlorobenzene	1.366	1.401	0.400	2.6	25.0
2-Methylphenol	1.111	1.117	0.700	0.5	25.0
2,2'-oxybis(1-Chloropropane)	1.723	1.850		7.4	
4-Methylphenol	1.160	1.171	0.600	0.9	25.0
N-Nitroso-di-n-propylamine	0.976	1.021	0.500	4.6	25.0
Hexachloroethane	0.628	0.696	0.300	10.8	25.0
Nitrobenzene	0.451	0.460	0.200	2.0	25.0
Isophorone	0.864	0.794	0.400	-8.1	25.0
2-Nitrophenol	0.246	0.220	0.100	-10.6	25.0
2,4-Dimethylphenol	0.391	0.357	0.200	-8.7	25.0
bis(2-Chloroethoxy)methane	0.534	0.513	0.300	-3.9	25.0
2,4-Dichlorophenol	0.350	0.297	0.200	-15.1	25.0
1,2,4-Trichlorobenzene	0.374	0.344	0.200	-8.0	25.0
Naphthalene	1.129	1.013	0.700	-10.3	25.0
4-Chloroaniline	0.489	0.394		-19.4	
Hexachlorobutadiene	0.219	0.228		4.1	
4-Chloro-3-methylphenol	0.349	0.310	0.200	-11.2	25.0
2-Methylnaphthalene	0.732	0.659	0.400	-10.0	25.0
Hexachlorocyclopentadiene	0.487	0.456		-6.4	
2,4,6-Trichlorophenol	0.444	0.414	0.200	-6.8	25.0
2,4,5-Trichlorophenol	0.468	0.413	0.200	-11.8	25.0
2-Chloronaphthalene	1.286	1.264	0.800	-1.7	25.0
2-Nitroaniline	0.442	0.440		-0.5	
Dimethylphthalate	1.350	1.268		-6.1	
Acenaphthylene	1.886	1.816	1.300	-3.7	25.0
2,6-Dinitrotoluene	0.296	0.273	0.200	-7.8	25.0
3-Nitroaniline	0.278	0.241		-13.3	
Acenaphthene	1.119	1.092	0.800	-2.4	25.0
2,4-Dinitrophenol	0.202	0.084		-58.4	
4-Nitrophenol	0.172	0.115		-33.1	
Dibenzofuran	1.578	1.510	0.800	-4.3	25.0
2,4-Dinitrotoluene	0.373	0.339	0.200	-9.1	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Instrument ID: HP6 Calibration date: 04/10/96 Time: 1147

Lab File ID: 77491 Init. Calib. Date(s): 03/31/96 03/31/96

Init. Calib. Times: 1250 1446

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.252	1.195		-4.6	
4-Chlorophenyl-phenylether	0.579	0.562	0.400	-2.9	25.0
Fluorene	1.184	1.094	0.900	-7.6	25.0
4-Nitroaniline	0.290	0.208		-28.3	
4,6-Dinitro-2-methylphenol	0.188	0.146		-22.3	
N-Nitrosodiphenylamine (1)	0.600	0.690		15.0	
4-Bromophenyl-phenylether	0.283	0.347	0.100	22.6	25.0
Hexachlorobenzene	0.304	0.381	0.100	25.3	25.0
Pentachlorophenol	0.180	0.159	0.050	-11.7	25.0
Phenanthrene	1.088	1.209	0.700	11.1	25.0
Anthracene	1.080	1.207	0.700	11.8	25.0
Carbazole	0.895	0.889		-0.7	
Di-n-butylphthalate	1.384	1.466		5.9	
Fluoranthene	0.887	0.892	0.600	0.6	25.0
Pyrene	2.067	2.007	0.600	-2.9	25.0
Butylbenzylphthalate	0.937	0.883		-5.8	
3,3'-Dichlorobenzidine	0.310	0.240		-22.6	
Benzo(a)anthracene	1.280	1.182	0.800	-7.7	25.0
Chrysene	1.120	1.202	0.700	7.3	25.0
bis(2-Ethylhexyl)phthalate	1.012	1.058		4.5	
Di-n-octylphthalate	2.012	1.778		-11.6	
Benzo(b)fluoranthene	1.296	1.144	0.700	-11.7	25.0
Benzo(k)fluoranthene	1.182	1.175	0.700	-0.6	25.0
Benzo(a)pyrene	1.059	1.033	0.700	-2.5	25.0
Indeno(1,2,3-cd)pyrene	1.076	1.330	0.500	23.6	25.0
Dibenz(a,h)anthracene	0.824	1.030	0.400	25.0	25.0
Benzo(g,h,i)perylene	0.845	1.122	0.500	32.8	25.0
Nitrobenzene-d5	0.480	0.473	0.200	-1.5	25.0
2-Fluorobiphenyl	1.384	1.410	0.700	1.9	25.0
Terphenyl-d14	1.294	1.284	0.500	-0.8	25.0
Phenol-d5	1.379	1.501	0.800	8.8	25.0
2-Fluorophenol	1.010	0.929	0.600	-8.0	25.0
2,4,6-Tribromophenol	0.137	0.168		22.6	
2-Chlorophenol-d4	1.298	1.272	0.800	-2.0	25.0
1,2-Dichlorobenzene-d4	0.883	0.888	0.400	0.6	25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Continuing Calibration File: 77491.D Inst: HP6

000538

PK#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
8	I	CI30 1,4-Dichlorobenzene-d4	1.000	1.000	0.0		
1	S	CS50 2-Fluorophenol	1.010	0.929	8.1	0.600	25.0
2	S	CS70 2-Chlorophenol-d4	1.298	1.272	2.1	0.800	25.0
3	S	CS45 Phenol-d5	1.379	1.501	8.9	0.800	25.0
4	T	C325 bis(2-Chloroethyl)ether	1.274	1.423	11.7	0.700	25.0
5	T	C330 2-Chlorophenol	1.353	1.390	2.8	0.800	25.0
6	T	C315 Phenol	1.462	1.599	9.3	0.800	25.0
7	T	C335 1,3-Dichlorobenzene	1.453	1.451	0.1	0.600	25.0
9	T	C340 1,4-Dichlorobenzene	1.471	1.495	1.6	0.500	25.0
10	S	CS75 1,2-Dichlorobenzene-d4	0.883	0.888	0.5	0.400	25.0
11	T	C350 1,2-Dichlorobenzene	1.366	1.401	2.5	0.400	25.0
12	T	C360 2,2'-oxybis(1-Chloroprop	1.724	1.850	7.3	0.010	
13	T	C355 2-Methylphenol	1.111	1.117	0.5	0.700	25.0
14	T	C375 Hexachloroethane	0.628	0.696	10.8	0.300	25.0
15	T	C370 N-Nitroso-di-n-propylami	0.976	1.021	4.6	0.500	25.0
16	T	C365 4-Methylphenol	1.160	1.171	1.0	0.600	25.0
25	I	CI40 Naphthalene-d8	1.000	1.000	0.0		
17	S	CS20 Nitrobenzene-d5	0.480	0.473	1.5	0.200	25.0
18	T	C410 Nitrobenzene	0.451	0.460	2.1	0.200	25.0
19	T	C415 Isophorone	0.865	0.794	8.1	0.400	25.0
0	T	C420 2-Nitrophenol	0.246	0.220	10.4	0.100	25.0
1	T	C425 2,4-Dimethylphenol	0.392	0.357	8.8	0.200	25.0
22	T	C435 bis(2-Chloroethoxy)metha	0.534	0.513	3.9	0.300	25.0
23	T	C440 2,4-Dichlorophenol	0.350	0.297	15.2	0.200	25.0
24	T	C445 1,2,4-Trichlorobenzene	0.374	0.344	8.1	0.200	25.0
26	T	C450 Naphthalene	1.129	1.013	10.3	0.700	25.0
27	T	C455 4-Chloroaniline	0.489	0.394	19.3	0.010	
28	T	C460 Hexachlorobutadiene	0.219	0.228	4.3	0.010	
29	T	C465 4-Chloro-3-methylphenol	0.349	0.310	11.2	0.200	25.0
30	T	C470 2-Methylnaphthalene	0.732	0.659	10.0	0.400	25.0
40	I	CI50 Acenaphthene-d10	1.000	1.000	0.0		
31	T	C510 Hexachlorocyclopentadien	0.487	0.456	6.3	0.010	
32	T	C515 2,4,6-Trichlorophenol	0.444	0.414	6.7	0.200	25.0
33	T	C520 2,4,5-Trichlorophenol	0.461	0.413	10.5	0.200	25.0
34	S	CS25 2-Fluorobiphenyl	1.384	1.410	1.9	0.700	25.0
35	T	C525 2-Chloronaphthalene	1.286	1.264	1.7	0.800	25.0
36	T	C530 2-Nitroaniline	0.443	0.440	0.7	0.010	
37	T	C535 Dimethylphthalate	1.350	1.268	6.1	0.010	
38	T	C540 Acenaphthylene	1.886	1.816	3.7	0.900	25.0
39	T	C543 2,6-Dinitrotoluene	0.296	0.273	7.7	0.200	25.0
41	T	C545 3-Nitroaniline	0.276	0.241	12.5	0.010	
42	T	C550 Acenaphthene	1.120	1.092	2.5	0.900	25.0
43	T	C555 2,4-Dinitrophenol	0.185	0.084	54.7	0.010	
44	T	C565 Dibenzofuran	1.578	1.510	4.3	0.800	25.0
5	T	C560 4-Nitrophenol	0.162	0.115	29.1	0.010	
6	T	C570 2,4-Dinitrotoluene	0.373	0.339	8.9	0.200	25.0

(*) = Out of Range (**) = % Dev fails CLP maximum acceptance criteria

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Continuing Calibration File: 77491.D Inst: HP6

PK#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
47	T	C580 Diethylphthalate	1.252	1.195	4.5	0.010	
48	T	C590 Fluorene	1.184	1.094	7.6	0.900	25.0
49	T	C585 4-Chlorophenyl-phenyleth	0.579	0.562	3.0	0.400	25.0
50	T	C595 4-Nitroaniline	0.281	0.208	25.8	0.010	
57	I	CI60 Phenanthrene-d10	1.000	1.000	0.0		
51	T	C610 4,6-Dinitro-2-methylphen	0.177	0.146	17.9	0.010	
52	T	C615 N-Nitrosodiphenylamine	0.600	0.690	15.1	0.010	
53	S	CS55 2,4,6-Tribromophenol	0.137	0.168	23.3	0.010	
54	T	C625 4-Bromophenyl-phenylethe	0.283	0.347	22.4	0.100	25.0
55	T	C630 Hexachlorobenzene	0.304	0.381	25.6*	0.100	25.0
56	T	C635 Pentachlorophenol	0.170	0.159	6.7	0.050	25.0
58	T	C640 Phenanthrene	1.088	1.209	11.1	0.700	25.0
59	T	C645 Anthracene	1.080	1.207	11.8	0.700	25.0
60	T	C648 Carbazole	0.895	0.889	0.7	0.010	
61	T	C650 Di-n-butylphthalate	1.384	1.466	5.9	0.010	
62	T	C655 Fluoranthene	0.888	0.893	0.6	0.600	25.0
67	I	CI70 Chrysene-d12	1.000	1.000	0.0		
63	T	C715 Pyrene	2.067	2.007	2.9	0.600	25.0
64	S	CS30 Terphenyl-d14	1.294	1.284	0.8	0.500	25.0
65	T	C720 Butylbenzylphthalate	0.937	0.883	5.7	0.010	
5	T	C730 Benzo(a)anthracene	1.280	1.182	7.7	0.800	25.0
68	T	C725 3,3'-Dichlorobenzidine	0.310	0.240	22.7	0.010	
69	T	C740 Chrysene	1.120	1.201	7.3	0.700	25.0
70	T	C745 bis(2-Ethylhexyl)phthala	1.012	1.058	4.6	0.010	
75	I	CI75 Perylene-d12	1.000	1.000	0.0		
71	T	C760 Di-n-octylphthalate	2.012	1.779	11.6	0.010	
72	T	C765 Benzo(b)fluoranthene	1.296	1.144	11.7	0.700	25.0
73	T	C770 Benzo(k)fluoranthene	1.182	1.175	0.6	0.700	25.0
74	T	C775 Benzo(a)pyrene	1.059	1.033	2.4	0.700	25.0
76	T	C780 Indeno(1,2,3-cd)pyrene	1.076	1.330	23.6	0.500	25.0
77	T	C785 Dibenz(a,h)anthracene	0.824	1.030	25.1*	0.400	25.0
78	T	C790 Benzo(g,h,i)perylene	0.845	1.122	32.7*	0.500	25.0

(*) = QC Criteria Failed (**) = > 40 % Dev., Reanalyze Standard

QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 11:47

Data File: C:\CHEMPC\DATA\041096\77491.D

Name: SSTD050 6d 4/5/96 S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 13:50:28 1996

Quantitated using Multiple Level Calibration

000535

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.60	152	105718	40.00	ug/mL	-0.01
25) CI40 Naphthalene-d8	7.14	136	343794	40.00	ug/mL	-0.01
40) CI50 Acenaphthene-d10	9.28	164	168887	40.00	ug/mL	-0.01
57) CI60 Phenanthrene-d10	11.39	188	164579	40.00	ug/mL	-0.01
67) CI70 Chrysene-d12	15.54	240	72966	40.00	ug/mL	-0.03
75) CI75 Perylene-d12	17.66	264	64438	40.00	ug/mL	-0.03
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.69	112	122722	45.97	ug/mL	30.65%
2) CS45 Phenol-d5	5.33	99	198404	54.43	ug/mL	36.29%
3) CS70 2-Chlorophenol-d4	5.32	132	168031	48.97	ug/mL	32.65%
10) CS75 1,2-Dichlorobenzene-d	5.87	152	117365	50.27	ug/mL	50.27%
17) CS20 Nitrobenzene-d5	6.39	82	203089	49.26	ug/mL	49.26%
34) CS25 2-Fluorobiphenyl	8.44	172	297603	50.93	ug/mL	50.93%
53) CS55 2,4,6-Tribromophenol	10.41	330	34651	61.66	ug/mL	41.11%
64) CS30 Terphenyl-d14	13.93	244	117092	49.59	ug/mL	49.59%
Target Compounds						ISTD#
4) C315 Phenol	5.35	94	211273	54.66	ug/mL	001#
5) C325 bis(2-Chloroethyl)eth	5.34	93	188047	55.84	ug/mL	001#
6) C330 2-Chlorophenol	5.34	128	183705	51.39	ug/mL	001
7) C335 1,3-Dichlorobenzene	5.53	146	191781	49.94	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.62	146	197616	50.82	ug/mL	001
11) C350 1,2-Dichlorobenzene	5.89	146	185111	51.26	ug/mL	001
12) C360 2,2'-oxybis(1-Chlorop	6.11	45	244464	53.67	ug/mL	001
13) C355 2-Methylphenol	6.16	108	147670	50.27	ug/mL	001
14) C375 Hexachloroethane	6.25	117	92021	55.40	ug/mL	001
15) C370 N-Nitroso-di-n-propyl	6.30	70	134919	52.31	ug/mL	001
16) C365 4-Methylphenol	6.34	108	154809	50.50	ug/mL	001
18) C410 Nitrobenzene	6.41	77	197595	51.03	ug/mL	002
19) C415 Isophorone	6.68	82	341262	45.92	ug/mL	002
20) C420 2-Nitrophenol	6.77	139	94748	44.79	ug/mL	002
21) C425 2,4-Dimethylphenol	6.89	107	153478	45.61	ug/mL	002
22) C435 bis(2-Chloroethoxy)me	6.97	93	220667	48.05	ug/mL	002
23) C440 2,4-Dichlorophenol	7.05	162	127496	42.42	ug/mL	002
24) C445 1,2,4-Trichlorobenzen	7.11	180	147624	45.95	ug/mL	002
26) C450 Naphthalene	7.16	128	435204	44.85	ug/mL	002
27) C455 4-Chloroaniline	7.29	127	169454	40.35	ug/mL	002
28) C460 Hexachlorobutadiene	7.37	225	98131	52.14	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.88	107	133229	44.38	ug/mL	002
30) C470 2-Methylnaphthalene	7.95	142	283285	45.01	ug/mL	002
31) C510 Hexachlorocyclopentad	8.22	237	96297	46.84	ug/mL	003
32) C515 2,4,6-Trichlorophenol	8.35	196	87438	46.67	ug/mL	003
33) C520 2,4,5-Trichlorophenol	8.41	196	87162	44.74	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 11:47

Data File: C:\CHEMPC\DATA\041096\77491.D

Name: SSTD050 AATS-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

Method: OLMO3_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 13:50:28 1996

Quantitated using Multiple Level Calibration

000536

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.54	162	266819	49.16	ug/mL	003
36)	C530 2-Nitroaniline	8.75	65	92917	49.66	ug/mL	003#
37)	C535 Dimethylphthalate	9.03	163	267593	46.95	ug/mL	003
38)	C540 Acenaphthylene	9.07	152	383427	48.16	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.12	165	57582	46.14	ug/mL	003
41)	C545 3-Nitroaniline	9.31	138	50950	43.75	ug/mL	003
42)	C550 Acenaphthene	9.33	153	230486	48.76	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.47	184	17729	22.64	ug/mL	003#
44)	C565 Dibenzofuran	9.54	168	318707	47.84	ug/mL	003
45)	C560 4-Nitrophenol	9.61	109	24184	35.46	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.66	165	71644	45.54	ug/mL	003#
47)	C580 Diethylphthalate	10.01	149	252236	47.73	ug/mL	003
48)	C590 Fluorene	10.02	166	230910	46.21	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.04	204	118578	48.48	ug/mL	003
50)	C595 4-Nitroaniline	10.17	138	44003	37.12	ug/mL	003
51)	C615 N-Nitrosodiphenylamin	10.25	169	141950	57.53	ug/mL	004
52)	C610 4,6-Dinitro-2-methylp	10.24	198	29993	41.07	ug/mL	004#
54)	C625 4-Bromophenyl-phenyle	10.75	248	71324	61.18	ug/mL	004
55)	C630 Hexachlorobenzene	10.95	284	78414	62.79	ug/mL	004
56)	C635 Pentachlorophenol	11.25	266	32686	46.63	ug/mL	004
58)	C640 Phenanthrene	11.42	178	248712	55.56	ug/mL	004
59)	C645 Anthracene	11.45	178	248370	55.88	ug/mL	004
60)	C648 Carbazole	11.79	167	182803	49.64	ug/mL	004
61)	C650 Di-n-butylphthalate	12.46	149	301548	52.94	ug/mL	004
62)	C655 Fluoranthene	13.27	202	183608	50.28	ug/mL	004
63)	C715 Pyrene	13.62	202	183087	48.57	ug/mL	005
65)	C720 Butylbenzylphthalate	14.81	149	80559	47.15	ug/mL	005
66)	C730 Benzo(a)anthracene	15.52	228	107774	46.14	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.58	252	21859	38.67	ug/mL	005
69)	C740 Chrysene	15.58	228	109586	53.66	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.78	149	96517	52.28	ug/mL	005
71)	C760 Di-n-octylphthalate	16.70	149	143253	44.20	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.14	252	92177	44.14	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.17	252	94645	49.71	ug/mL	006
74)	C775 Benzo(a)pyrene	17.58	252	83205	48.78	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	18.93	276	107151	61.80	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.01	278	82987	62.54	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.30	276	90338	66.37	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 11:47

Data File: C:\CHEMPC\DATA\041096\77491.D

Name: SSTD050 4/4/96 S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

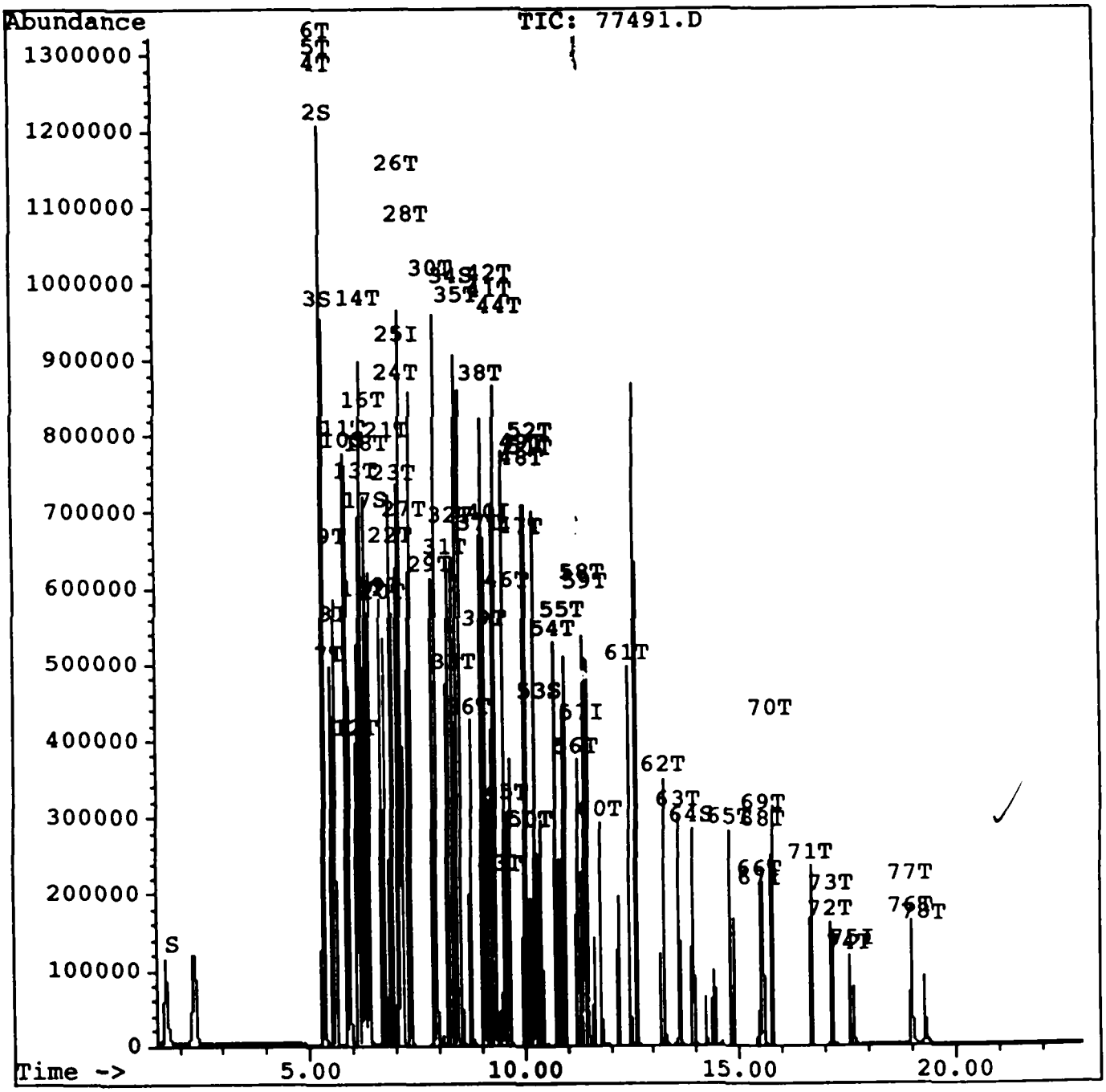
Method: OLMO3_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 13:50:28 1996

Quantitated using Multiple Level Calibration

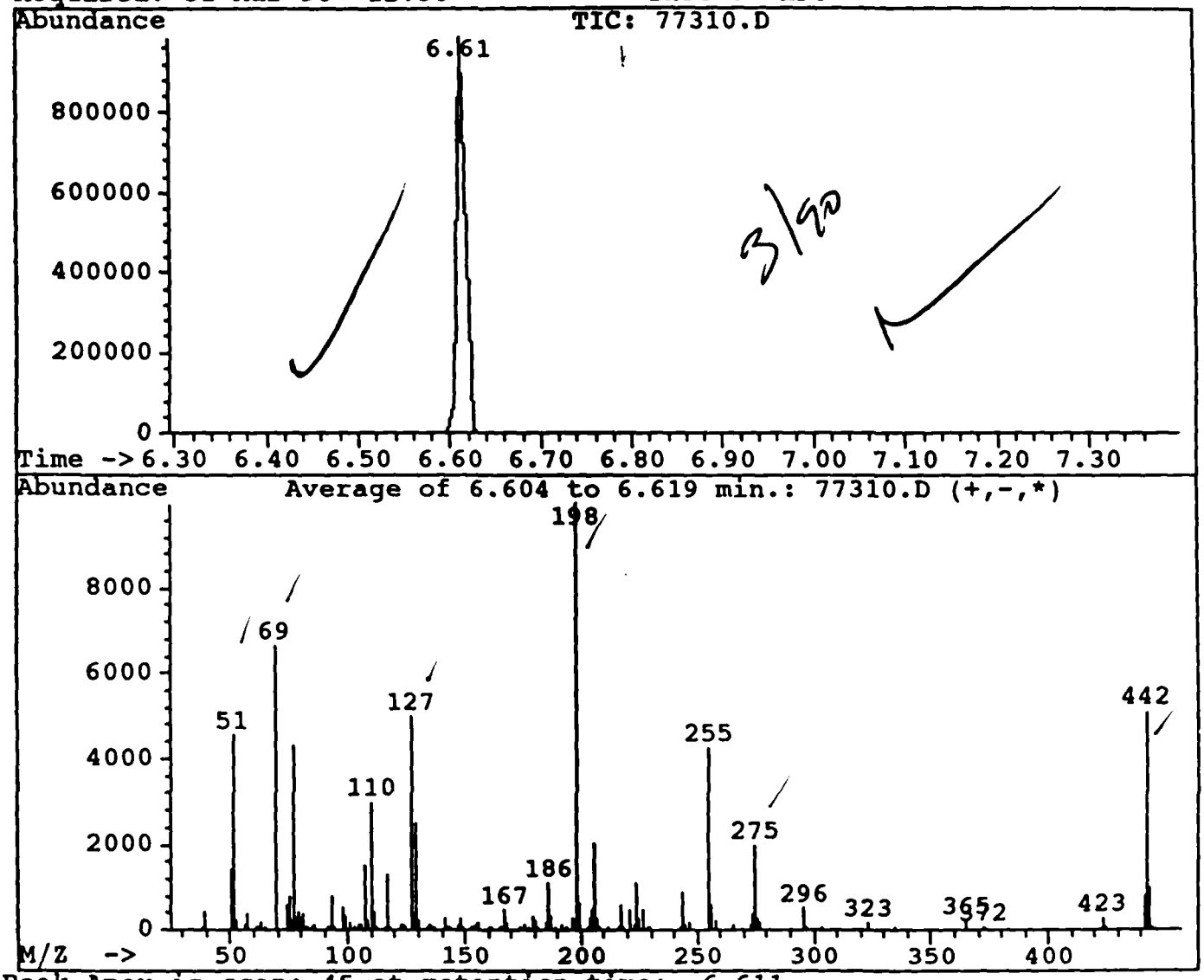
000537



DFTPP Results

000538

File : C:\CHEMPC\DATA\033196\77310.D Analyst : AK
Acquired: 31 Mar 96 12:38 Inst : HP6



Peak Apex is scan: 45 at retention time: 6.611

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
51	198	30.00	80.00	45.46	45.46	PASS
68	69	0.00	1.99	0.00	0.00	PASS
69	198	0.00	100.00	66.25	66.25	PASS
70	69	0.00	1.99	0.00	0.00	PASS
127	198	25.00	75.00	49.85	49.85	PASS
197	198	0.00	0.99	0.00	0.00	PASS
198	198	100.00	100.00	100.00	100.00	PASS
199	198	5.00	9.00	6.42	6.42	PASS
275	198	10.00	30.00	19.72	19.72	PASS
365	198	0.75	100.00	2.10	2.10	PASS
441	443	0.60	99.00	7.60	75.62	PASS
442	198	40.00	110.00	51.07	51.07	PASS
443	442	15.00	24.00	10.05	19.68	PASS

C:\CHEMPC\DATA\033196\77310.D Sun Mar 31 12:46:24 1996

File: C:\CHEMPC\DATA\033196\77310.D
Operator: AK
Date Acquired: 31 Mar 96 12:38 pm
Method File: DFTPPCLP.M

000539

Sample Name: DFTPP S-96-308
Info: HP6*AATSLA*DFTPP*2uL*MS517
Total Number : 1

Average of 6.604 to 6.619 min.: 77310.D
DFTPP S-96-308
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.05	70	64.95	66	83.00	65	104.05	108
38.95	405	68.95	6625	85.00	51	104.95	99
50.10	1407	74.05	556	86.00	97	107.05	1500
51.00	4546	74.95	797	91.00	70	107.95	217
52.00	214	76.05	206	92.00	81	109.95	2977
56.00	131	77.05	4313	93.00	792	110.95	415
57.00	379	78.10	249	93.90	42	111.95	42
61.05	49	79.00	434	98.05	544	116.00	84
62.05	59	80.00	280	98.95	296	117.00	1313
63.05	148	81.00	359	100.95	169	118.00	79
64.05	33	82.00	83	102.95	51	122.00	88

Average of 6.604 to 6.619 min.: 77310.D
DFTPP S-96-308
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.00	112	141.95	67	164.95	72	185.05	149
124.00	65	142.95	46	166.05	43	186.00	1092
127.00	4985	147.00	96	167.05	456	187.00	307
128.00	351	148.00	286	167.95	168	188.90	52
129.00	2474	149.00	44	173.05	34	191.95	109
129.95	200	152.90	50	173.95	78	193.00	60
133.95	45	154.00	52	175.05	94	195.95	262
135.05	121	155.00	130	176.95	49	197.90	10000
136.05	46	156.00	170	178.95	337	198.95	642
136.95	65	160.00	56	179.95	212	202.95	44
140.95	251	161.00	75	180.85	71	204.05	285

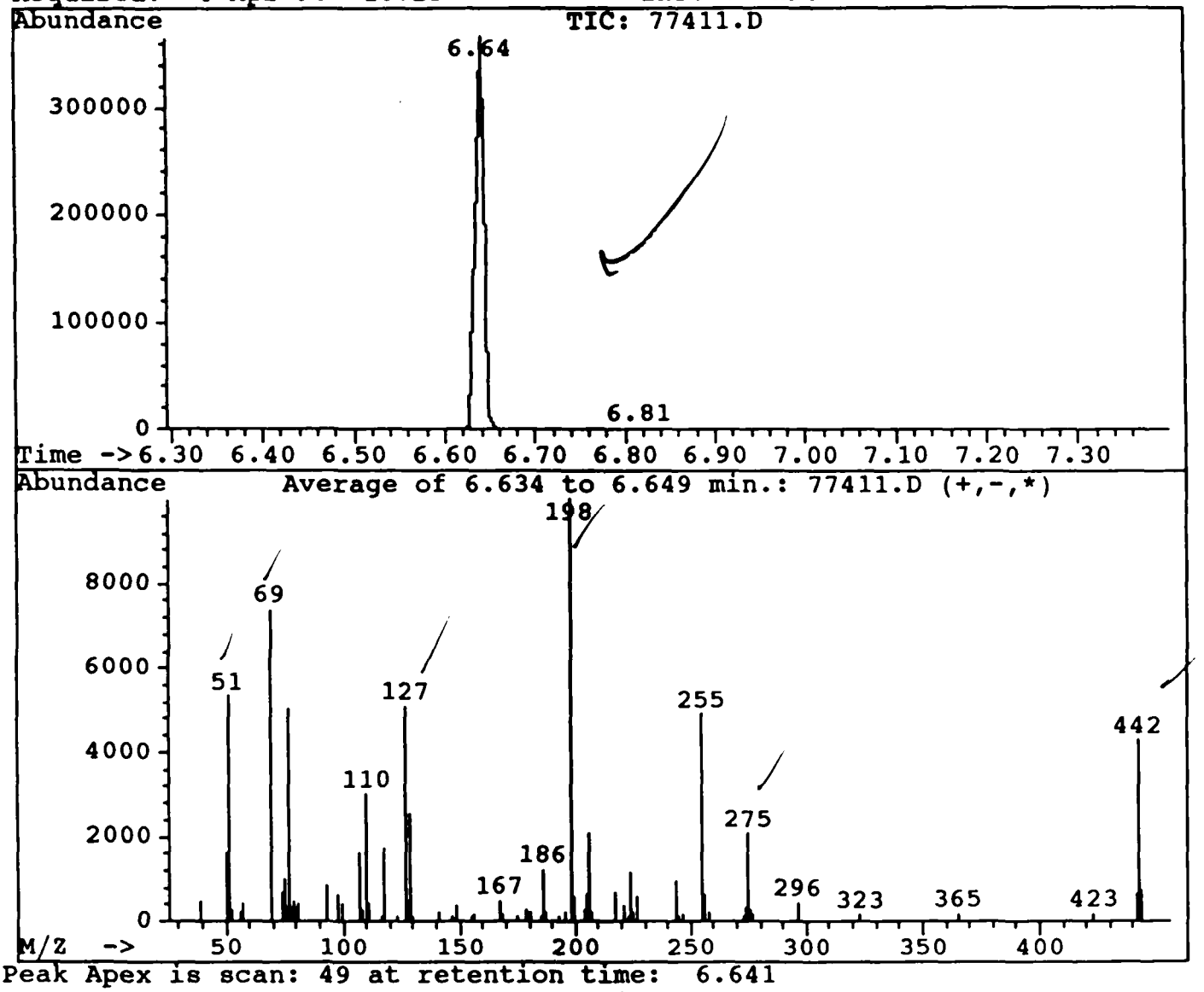
Average of 6.604 to 6.619 min.: 77310.D
DFTPP S-96-308
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.05	486	225.00	242	264.90	97	351.95	32
206.05	2006	227.00	485	272.95	139	364.90	210
207.00	264	227.90	51	273.95	367	372.05	54
207.95	48	228.90	62	274.95	1972	422.95	272
210.90	83	243.05	43	275.95	265	424.00	40
215.95	41	243.95	911	276.95	153	441.05	760
216.95	583	245.00	124	295.95	502	442.05	5107
217.90	44	245.95	157	296.90	36	443.05	1005
221.00	483	255.00	4256	302.95	37	443.95	62
223.00	130	256.00	590	323.00	164		
224.00	1086	257.90	235	333.90	57		

DFTPP Results

000540

File : C:\CHEMPC\DATA\040496\77411.D Analyst : AK
Acquired: 4 Apr 96 16:25 Inst : HP6



Peak Apex is scan: 49 at retention time: 6.641

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
51	198	30.00	80.00	53.23	53.23	PASS
68	69	0.00	1.99	0.00	0.00	PASS
69	198	0.00	100.00	73.84	73.84	PASS
70	69	0.00	1.99	0.00	0.00	PASS
127	198	25.00	75.00	50.94	50.94	PASS
197	198	0.00	0.99	0.00	0.00	PASS
198	198	100.00	100.00	100.00	100.00	PASS
199	198	5.00	9.00	5.99	5.99	PASS
275	198	10.00	30.00	20.70	20.70	PASS
365	198	0.75	100.00	1.72	1.72	PASS
441	443	0.60	99.00	6.15	81.78	PASS
442	198	40.00	110.00	42.97	42.97	PASS
443	442	15.00	24.00	7.52	17.50	PASS

C:\CHEMPC\DATA\040496\77411.D Fri Apr 05 08:14:47 1996

File: C:\CHEMPC\DATA\040496\77411.D
Operator: AK
Date Acquired: 4 Apr 96 ~~4:25~~ pm 1625
Method File: DFTPPCLP.M

000541

Sample Name: DFTPP S-96-308
Misc Info: HP6*AATSLA*DFTPP*2uL*MS517
Vial Number : 1
Average of 6.634 to 6.649 min.: 77411.D
DFTPP S-96-308
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.95	491	78.00	339	116.00	98	156.00	145
50.00	1601	79.00	480	117.00	1723	167.00	494
51.00	5323	79.95	339	123.00	96	167.95	160
51.95	281	80.90	408	127.00	5094	174.95	112
55.90	226	92.90	860	128.00	459	178.85	268
56.90	416	97.95	635	128.90	2571	179.95	189
68.95	7384	98.95	419	129.95	133	185.00	125
73.95	667	106.95	1615	140.95	218	186.00	1220
74.95	988	107.90	269	147.00	127	187.00	224
76.00	309	109.95	3016	147.90	344	193.00	108
76.95	5029	110.95	431	155.00	96	195.90	200

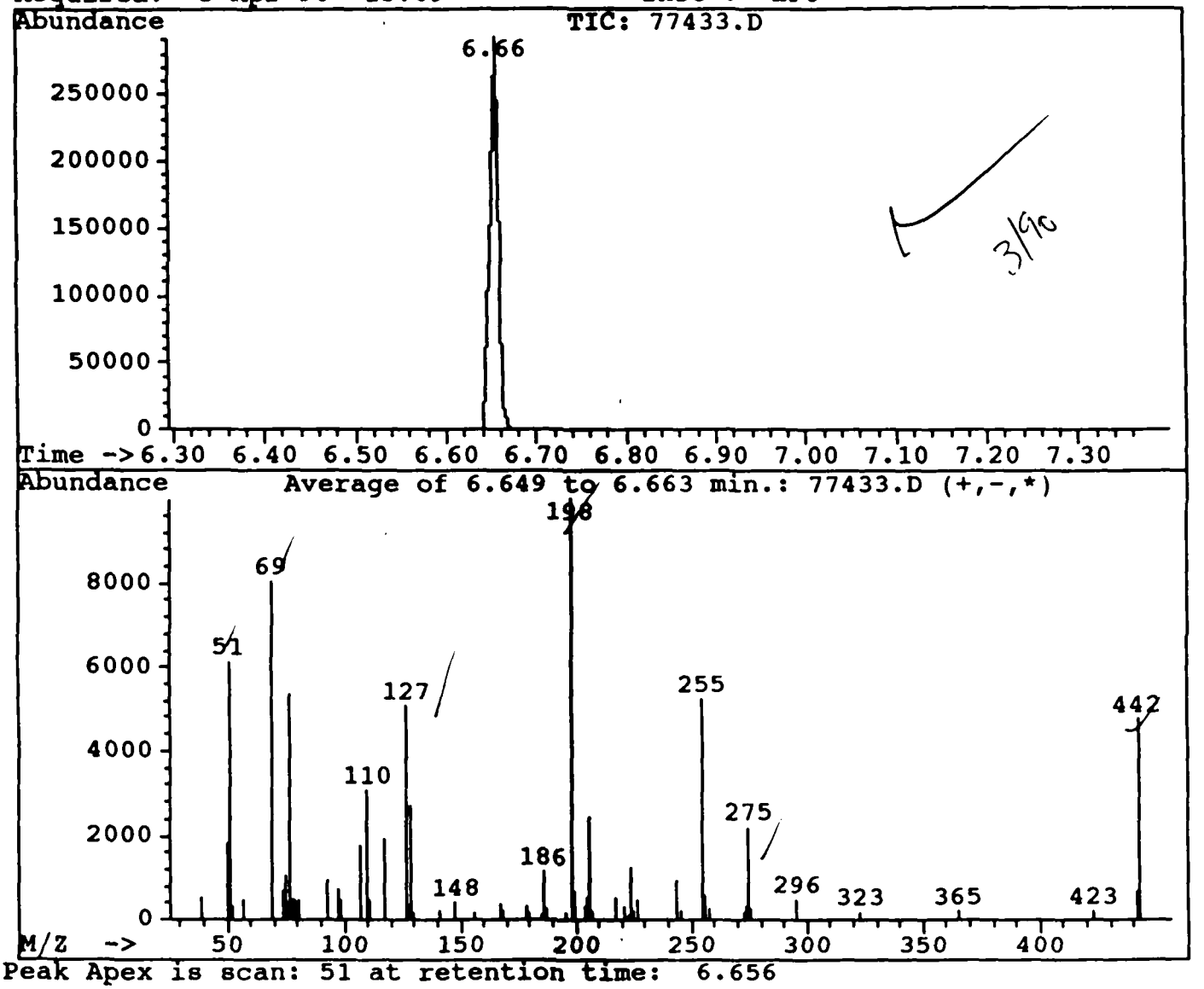
Average of 6.634 to 6.649 min.: 77411.D
DFTPP S-96-308
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
197.90	10000	226.90	570	276.85	146		
198.90	599	243.95	923	295.90	428		
203.95	246	244.95	113	323.00	155		
204.95	611	245.85	166	364.90	172		
205.95	2105	255.00	4911	422.95	175		
206.95	205	255.90	633	441.05	615		
216.90	679	257.90	216	442.05	4297		
220.90	351	272.95	139	442.95	752		
222.90	114	273.95	298				
224.00	1171	274.95	2070				
224.90	210	275.95	252				

DFTPP Results

000542

File : C:\CHEMPC\DATA\040596\77433.D Analyst : AK
Acquired: 5 Apr 96 13:09 Inst : HP6



Peak Apex is scan: 51 at retention time: 6.656

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
51	198	30.00	80.00	61.30	61.30	PASS
68	69	0.00	1.99	0.00	0.00	PASS
69	198	0.00	100.00	80.36	80.36	PASS
70	69	0.00	1.99	0.00	0.00	PASS
127	198	25.00	75.00	50.74	50.74	PASS
197	198	0.00	0.99	0.00	0.00	PASS
198	198	100.00	100.00	100.00	100.00	PASS
199	198	5.00	9.00	6.81	6.81	PASS
275	198	10.00	30.00	22.08	22.08	PASS
365	198	0.75	100.0	2.06	2.06	PASS
441	443	0.60	99.00	6.65	77.87	PASS
442	198	40.00	110.00	47.55	47.55	PASS
443	442	15.00	24.00	8.54	17.96	PASS

C:\CHEMPC\DATA\040596\77433.D Fri Apr 05 13:18:22 1996

File: C:\CHEMPC\DATA\040596\77433.D
Operator: AK
Date Acquired: 5 Apr 96 ~~1:09 pm~~ 1309 4/05/96 000543
Method File: DFTPPCLP.M
Sample Name: DFTPP S-96-054
Misc Info: HP6*AATSLA*DFTPP*2uL*MS517
Vial Number : 1
Average of 6.649 to 6.663 min.: 77433.D
DFTPP S-96-054
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
38.95	531	79.00	458	128.00	246	186.00	1149
50.00	1809	80.00	401	128.95	2700	187.00	279
51.00	6130	80.95	458	129.95	177	196.00	181
51.95	294	93.00	959	140.95	237	197.90	10000
56.90	495	98.00	728	148.00	411	198.95	681
68.95	8036	98.95	456	156.00	154	203.95	315
73.95	700	106.95	1751	167.05	367	204.95	543
74.95	1063	109.95	3070	167.95	214	206.05	2416
75.95	312	110.95	454	178.95	324	206.95	201
77.05	5367	117.00	1900	179.95	172	216.90	541
78.00	449	127.00	5074	185.00	125	221.00	309

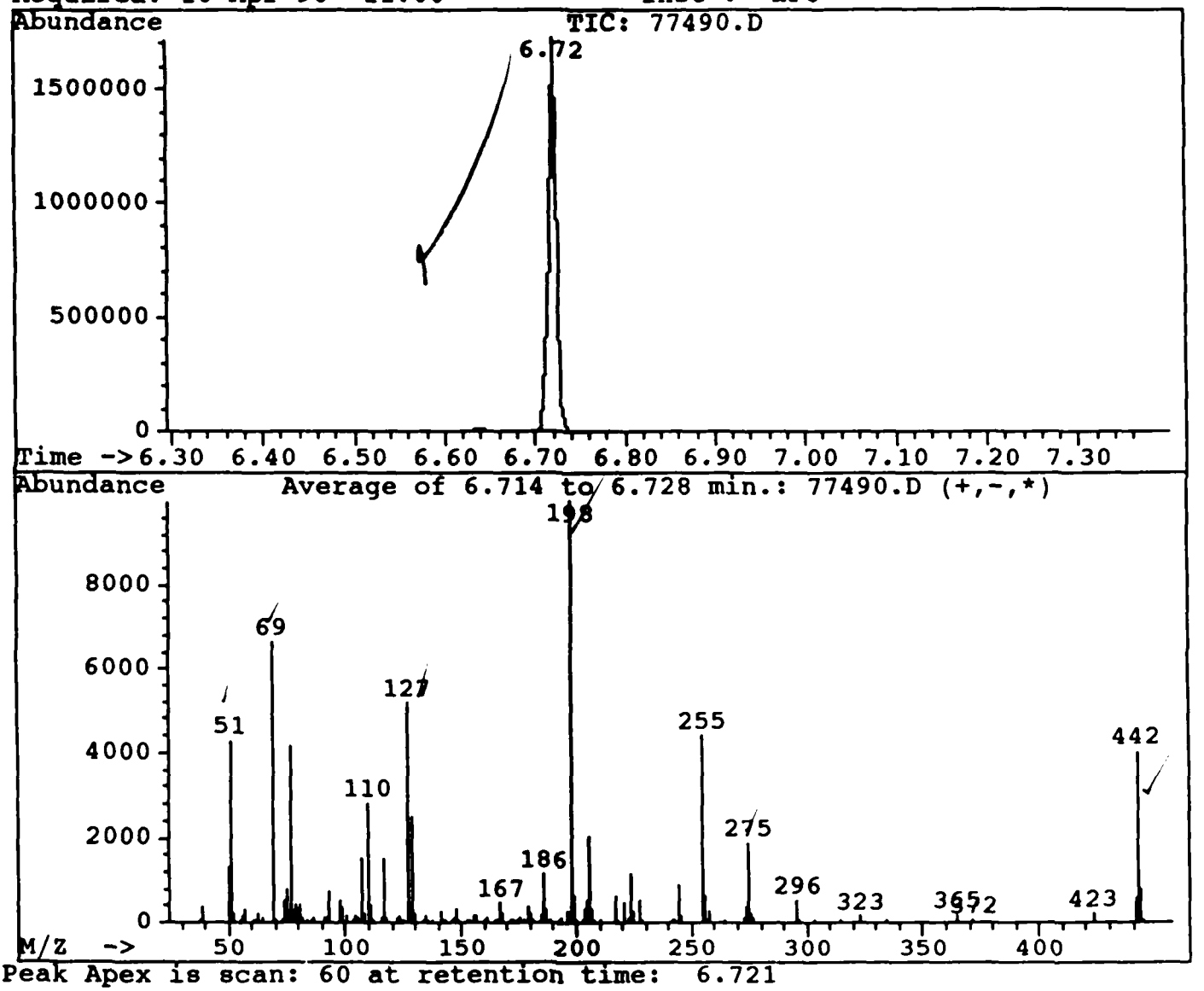
Average of 6.649 to 6.663 min.: 77433.D
DFTPP S-96-054
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
223.00	129	274.95	2208				
224.00	1262	275.95	254				
224.90	206	295.90	480				
226.90	468	323.00	187				
243.95	944	364.90	206				
245.85	188	422.95	211				
255.00	5241	441.05	665				
255.90	592	442.05	4755				
257.90	267	443.00	854				
272.95	147						
273.95	319						

DFTPP Results

000544

File : C:\CHEMPC\DATA\041096\77490.D Analyst : AK
Acquired: 10 Apr 96 11:00 Inst : HP6



Peak Apex is scan: 60 at retention time: 6.721

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	% Rel. Basepeak	% Relative Comparison	Result Pass/Fail
51	198	30.00	80.00	42.77	42.77	PASS
68	69	0.00	1.99	0.00	0.00	PASS
69	198	0.00	100.00	66.44	66.44	PASS
70	69	0.00	1.99	0.44	0.66	PASS
127	198	25.00	75.00	51.81	51.81	PASS
197	198	0.00	0.99	0.00	0.00	PASS
198	198	100.00	100.00	100.00	100.00	PASS
199	198	5.00	9.00	6.49	6.49	PASS
275	198	10.00	30.00	18.71	18.71	PASS
365	198	0.75	100.00	1.76	1.76	PASS
441	443	0.60	99.00	5.91	76.85	PASS
442	198	40.00	110.00	40.22	40.22	PASS
443	442	15.00	24.00	7.69	19.12	PASS

C:\CHEMPC\DATA\041096\77490.D Wed Apr 10 11:09:19 1996

File: C:\CHEMPC\DATA\041096\77490.D
Operator: AK
Date Acquired: 10 Apr 96 11:00 am
Method File: DFTPPCLP.M
Sample Name: DFTPP S-96-054
Misc Info: HP6*AATSLA*DFTPP*2uL*MS517
Vial Number : 1

Average of 6.714 to 6.728 min.: 77490.D
DFTPP S-96-054
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.95	78	65.05	90	81.00	399	99.00	353
38.95	345	68.95	6644	82.00	101	100.95	179
50.05	1300	69.90	44	83.00	48	103.05	55
51.00	4277	73.00	64	85.05	83	104.05	147
52.00	226	74.05	528	86.00	131	105.00	138
54.90	62	74.95	798	87.00	32	107.05	1533
56.00	173	76.05	251	90.95	104	108.00	204
57.00	323	77.05	4132	92.00	88	109.95	2811
61.00	63	78.10	280	93.00	749	111.00	436
62.00	82	79.00	406	94.00	33	111.95	45
63.05	194	80.00	303	98.05	527	116.05	109

Average of 6.714 to 6.728 min.: 77490.D
DFTPP S-96-054
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.00	1513	134.05	51	149.00	45	161.00	107
118.00	96	135.05	175	151.10	31	162.00	26
122.00	105	136.05	46	152.00	24	165.05	79
123.00	180	137.05	54	153.00	65	166.05	58
124.00	72	140.05	23	154.00	54	167.05	449
125.00	60	141.05	282	155.00	143	168.05	215
127.00	5181	141.95	77	156.00	159	168.95	25
128.00	417	142.95	43	157.10	34	172.05	37
129.00	2495	146.05	39	158.00	35	172.95	46
130.05	207	147.00	129	159.00	27	174.05	72
130.95	32	148.00	336	160.00	69	175.05	136

Average of 6.714 to 6.728 min.: 77490.D
DFTPP S-96-054
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.05	35	191.00	35	206.05	2028	228.00	53
176.95	66	192.00	84	207.05	300	228.90	81
178.95	369	193.00	100	207.95	57	230.90	34
180.05	217	196.00	245	210.95	79	234.95	28
180.95	85	198.00	10000	217.00	648	241.95	61
184.00	24	198.95	649	218.00	62	243.05	55
185.10	153	199.95	38	221.00	454	244.05	906
186.10	1138	201.45	34	223.00	130	245.05	100
187.00	304	202.95	62	224.00	1167	245.95	141
188.00	32	204.05	293	225.00	252	246.95	29
189.00	53	205.05	523	227.00	510	248.95	29

Average of 6.714 to 6.728 min.: 77490.D
DFTPP S-96-054
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
255.00	4406	277.95	25	371.95	45		
256.00	640	296.00	527	423.00	203		
257.00	44	296.90	57	424.00	27		
258.00	243	302.95	46	441.05	591		
258.90	32	314.95	40	442.05	4022		
264.90	79	323.00	142	443.05	769		

000546

2µL 041096 1100 041296

Average of 6.714 to 6.728 min.: 77490.D
DFTPP S-96-054
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.95	78	65.05	90	81.00	399	99.00	353
38.95	345	68.95	6644	82.00	101	100.95	179
50.05	1300	69.90	44	83.00	48	103.05	55
51.00	4277	73.00	64	85.05	83	104.05	147
52.00	226	74.05	528	86.00	131	105.00	138
54.90	62	74.95	798	87.00	32	107.05	1533
56.00	173	76.05	251	90.95	104	108.00	204
57.00	323	77.05	4132	92.00	88	109.95	2811
61.00	63	78.10	280	93.00	749	111.00	436
62.00	82	79.00	406	94.00	33	111.95	45
63.05	194	80.00	303	98.05	527	116.05	109

Average of 6.714 to 6.728 min.: 77490.D
DFTPP S-96-054
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.00	1513	134.05	51	149.00	45	161.00	107
118.00	96	135.05	175	151.10	31	162.00	26
122.00	105	136.05	46	152.00	24	165.05	79
123.00	180	137.05	54	153.00	65	166.05	58
124.00	72	140.05	23	154.00	54	167.05	449
125.00	60	141.05	282	155.00	143	168.05	215
127.00	5181	141.95	77	156.00	159	168.95	25
128.00	417	142.95	43	157.10	34	172.05	37
129.00	2495	146.05	39	158.00	35	172.95	46
130.05	207	147.00	129	159.00	27	174.05	72
130.95	32	148.00	336	160.00	69	175.05	136

Average of 6.714 to 6.728 min.: 77490.D
DFTPP S-96-054
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.05	35	191.00	35	206.05	2028	228.00	53
176.95	66	192.00	84	207.05	300	228.90	81
178.95	369	193.00	100	207.95	57	230.90	34
180.05	217	196.00	245	210.95	79	234.95	28
180.95	85	198.00	10000	217.00	648	241.95	61
184.00	24	198.95	649	218.00	62	243.05	55
185.10	153	199.95	38	221.00	454	244.05	906
186.10	1138	201.45	34	223.00	130	245.05	100
187.00	304	202.95	62	224.00	1167	245.95	141
188.00	32	204.05	293	225.00	252	246.95	29
189.00	53	205.05	523	227.00	510	248.95	29

Average of 6.714 to 6.728 min.: 77490.D
DFTPP S-96-054
Modified:added subtracted scaled

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
255.00	4406	277.95	25	371.05	45		
256.00	640	296.00	527	423.00	203		
257.00	44	296.90	57	424.00	27		
258.00	243	302.95	46	441.05	591		
258.90	32	314.95	40	442.05	4022		
264.90	79	323.00	142	443.05	769		
272.95	102	324.00	24	444.05	62		
74.05	346	334.00	64				
74.95	1871	351.95	32				
276.05	203	353.95	32				
276.95	128	364.90	176				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK6R

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: SBLK6R

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77423

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0 ~~0.5~~ 2 4/16/96

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1C **000548** EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK6R

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: SBLK6R

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77423

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ 0.5 4/4/96

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F 000549 EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK6R

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: SBLK6R

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77423

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/04/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/12/96

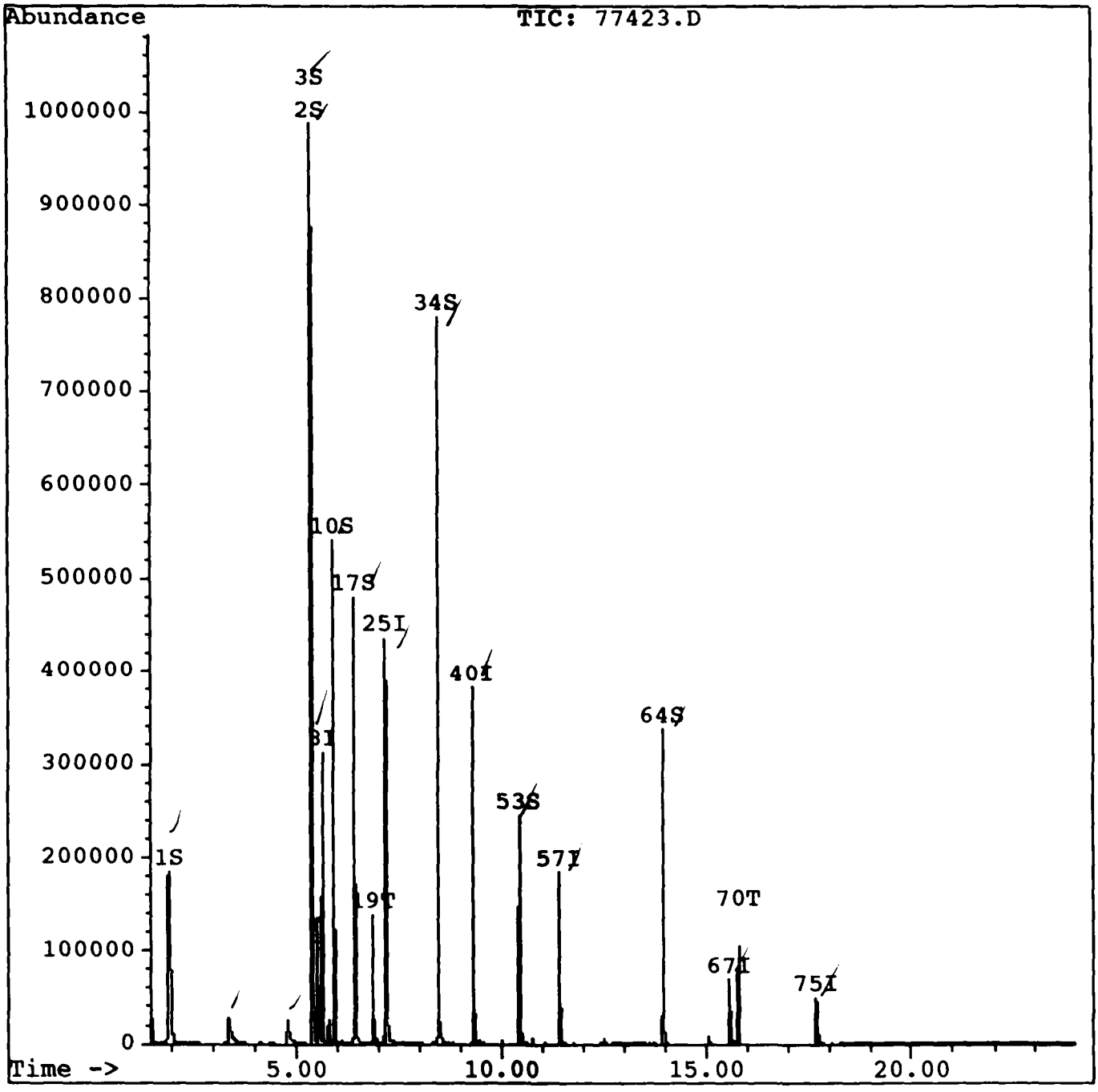
GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.35	220	AJ
2.		Aldol condensation	4.77	140	AJ
3.		Aldol condensation	5.50	300	AJ

QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 22:25
Data File: C:\CHEMPC\DATA\040496\77423.D
Name: SBLK6R EXT033096
Misc: HP6*AATSLA*MB-E*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 4 Apr 96 22:25

000551

Data File: C:\CHEMPC\DATA\040496\77423.D

Name: SBLK6R EXT033096

Misc: HP6*AATSLA*MB-E*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

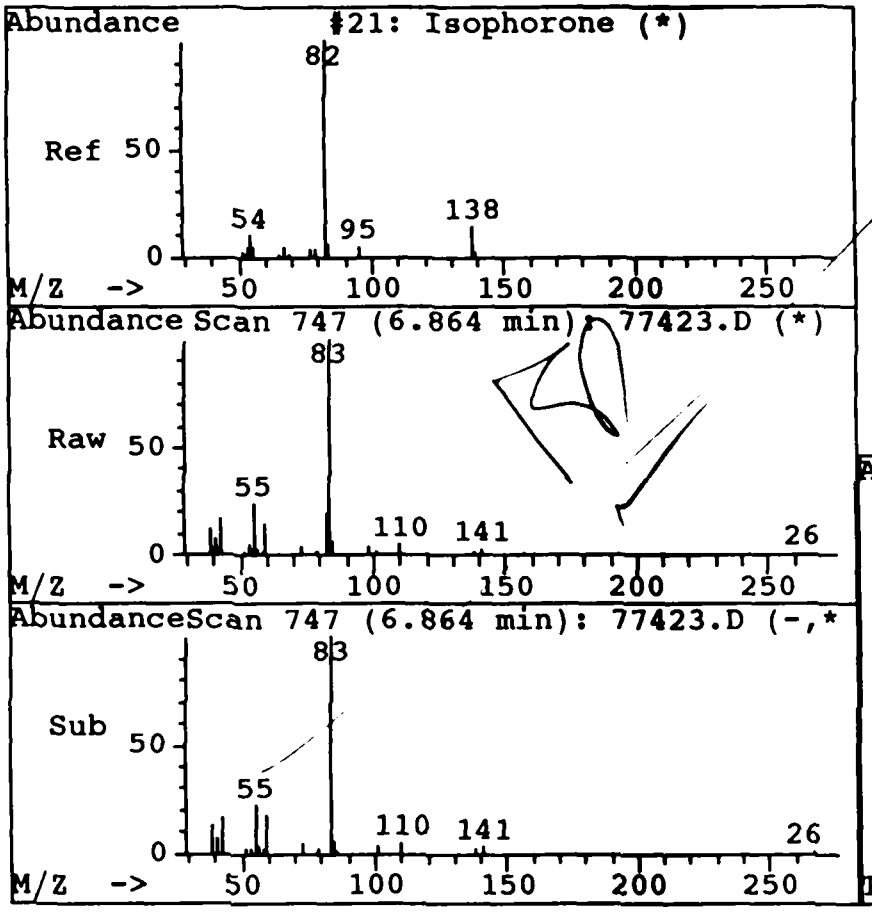
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	80459	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.16	136	252794	40.00	ug/mL	0.00
40) CI50 Acenaphthene-d10	9.30	164	120551	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.41	188	126457	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.58	240	66726	40.00	ug/mL	0.00
75) CI75 Perylene-d12	17.69	264	65045	40.00	ug/mL	-0.00
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.92	112	202915	108.69	ug/mL	72.46%
2) CS45 Phenol-d5	5.37	99	287140	98.18	ug/mL	65.46%
3) CS70 2-Chlorophenol-d4	5.37	132	255790	103.67	ug/mL	69.11%
10) CS75 1,2-Dichlorobenzene-d	5.90	152	112771	67.75	ug/mL	67.75%
17) CS20 Nitrobenzene-d5	6.42	82	206353	69.66	ug/mL	69.66%
34) CS25 2-Fluorobiphenyl	8.45	172	316489	74.99	ug/mL	74.99%
53) CS55 2,4,6-Tribromophenol	10.44	330	47464	104.20	ug/mL	69.47%
64) CS30 Terphenyl-d14	13.96	244	154973	99.08	ug/mL	99.08%
Target Compounds						ISTD#
19) C415 Isophorone	6.86	82	13222	2.84	ug/mL	002#
70) C745 bis(2-Ethylhexyl)phth	15.80	149	41225	22.88	ug/mL	005

(#) = qualifier out of range

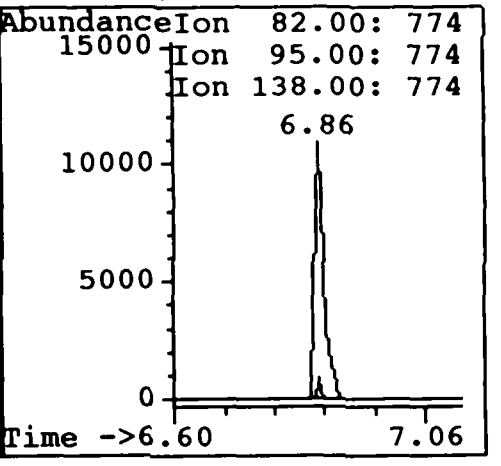


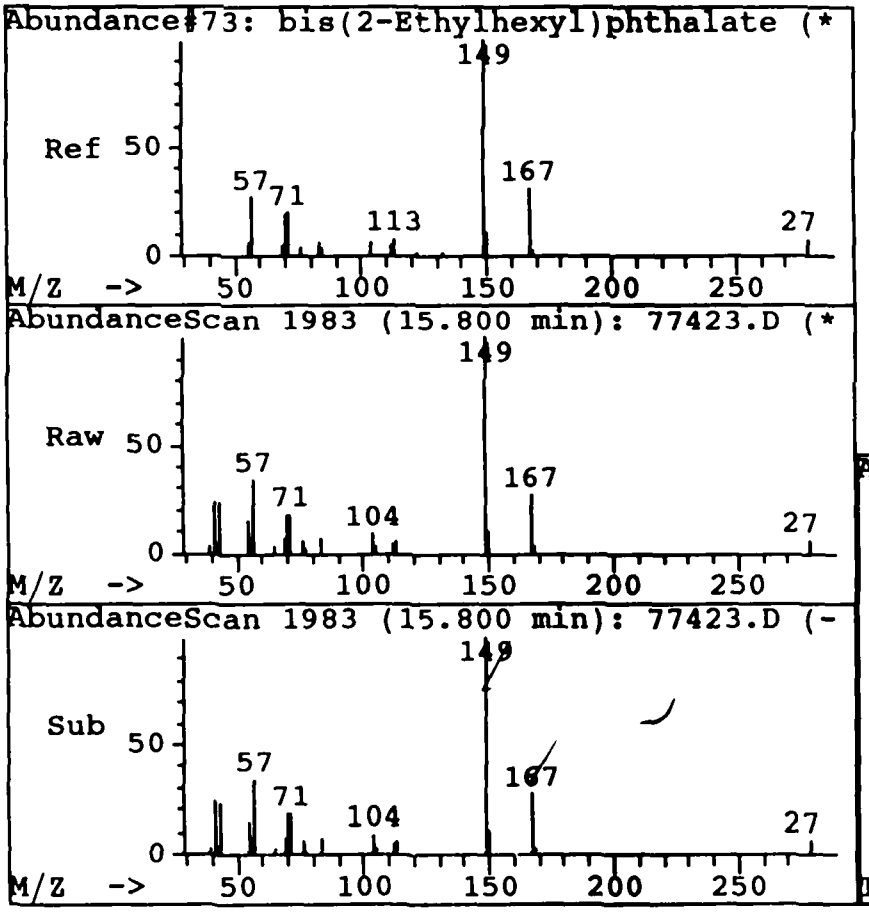
#19 Inst: HP6
C415 Isophorone
Concen: 2.84 ug/mL
RT: 6.86 min Scan# 747
Delta R.T. 0.17 min
Lab File: 77423.D
Acq: 4 Apr 96 22:25
SBLK6R

000552

Tgt Ion: 82 Area: 13222

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	0.0	0.0	35.2
0	0.0	0.0	0.0

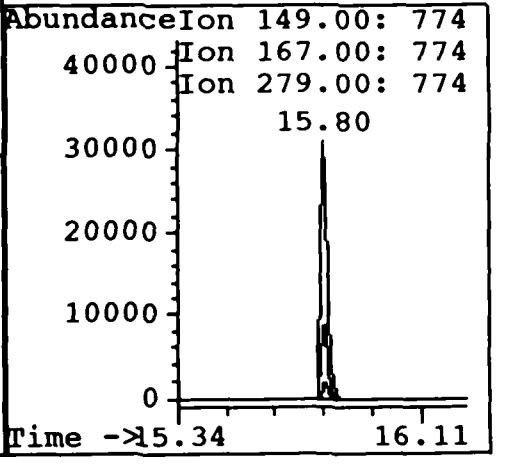




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 22.88 ug/mL
RT: 15.80 min Scan# 1983
Delta R.T. -0.01 min
Lab File: 77423.D
Acq: 4 Apr 96 22:25
SBLK6R

Tgt Ion: 149 Area: 41225

Ion	Ratio	Lower	Upper
149	100		
167	28.4	13.5	53.5
279	4.7	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:25

000553

Data File: C:\CHEMPC\DATA\040496\77423.D

Name: SBLK6R EXT033096

Misc: HP6*AATSLA*MB-E*30.00gml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

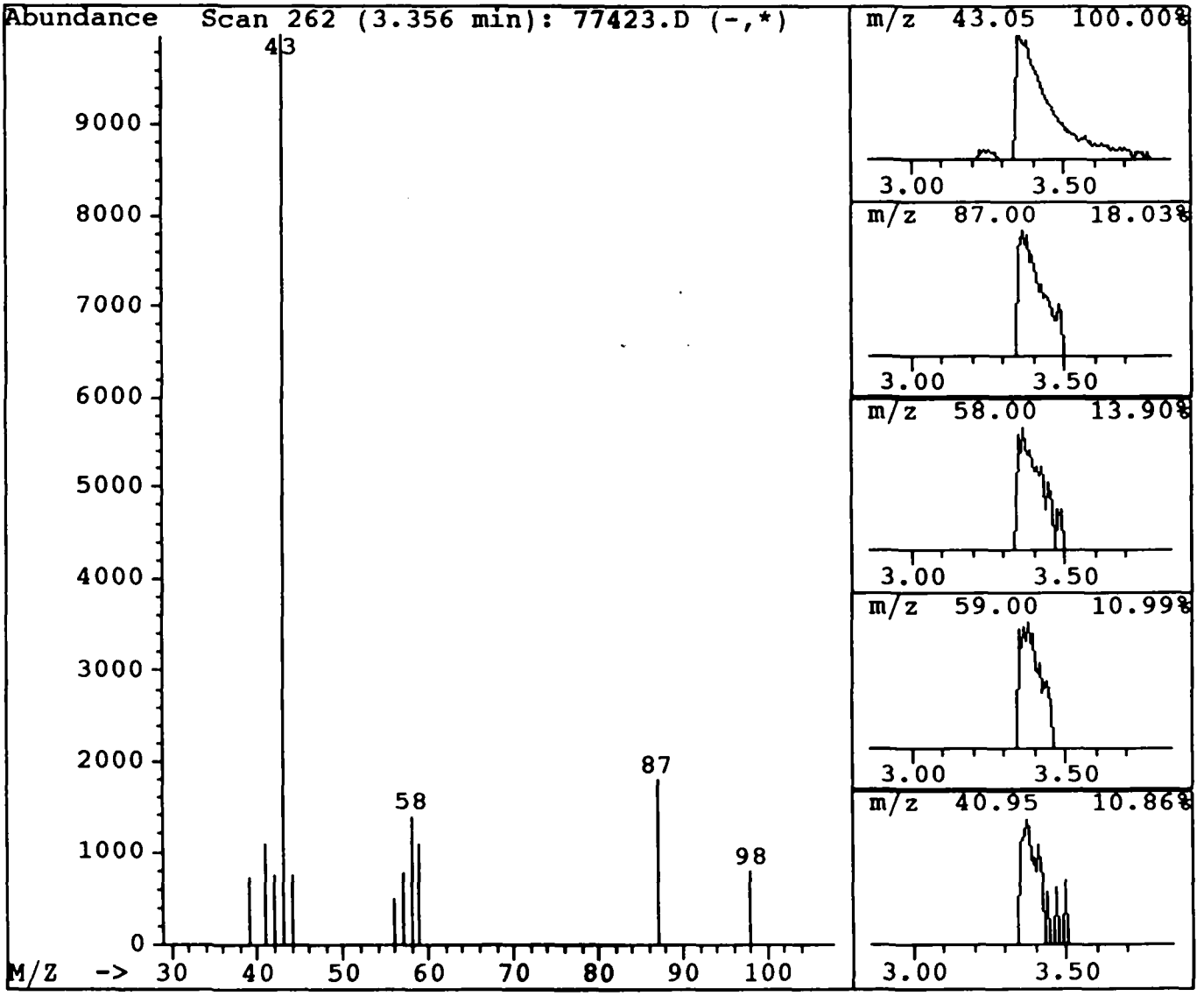
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.36	12.89 ug/mL	165076	CI30 1,4-Dichlorobenzene-	512072

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



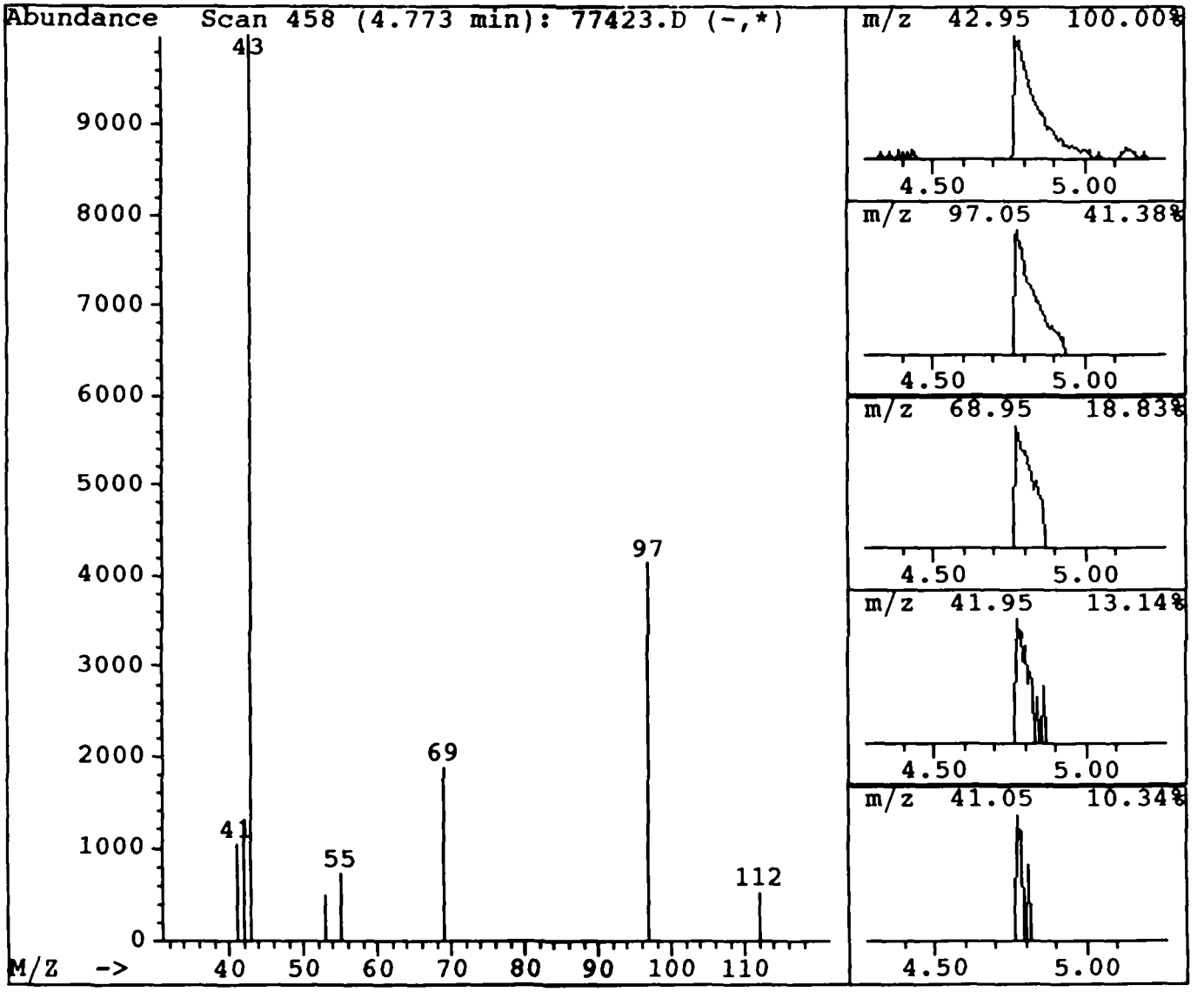
Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 4 Apr 96 22:25
Data File: C:\CHEMPC\DATA\040496\77423.D
Name: SBLK6R EXT033096
Misc: HP6*AATSLA*MB-E*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.77	8.59 ug/mL	109993	CI30 1,4-Dichlorobenzene-	512072

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



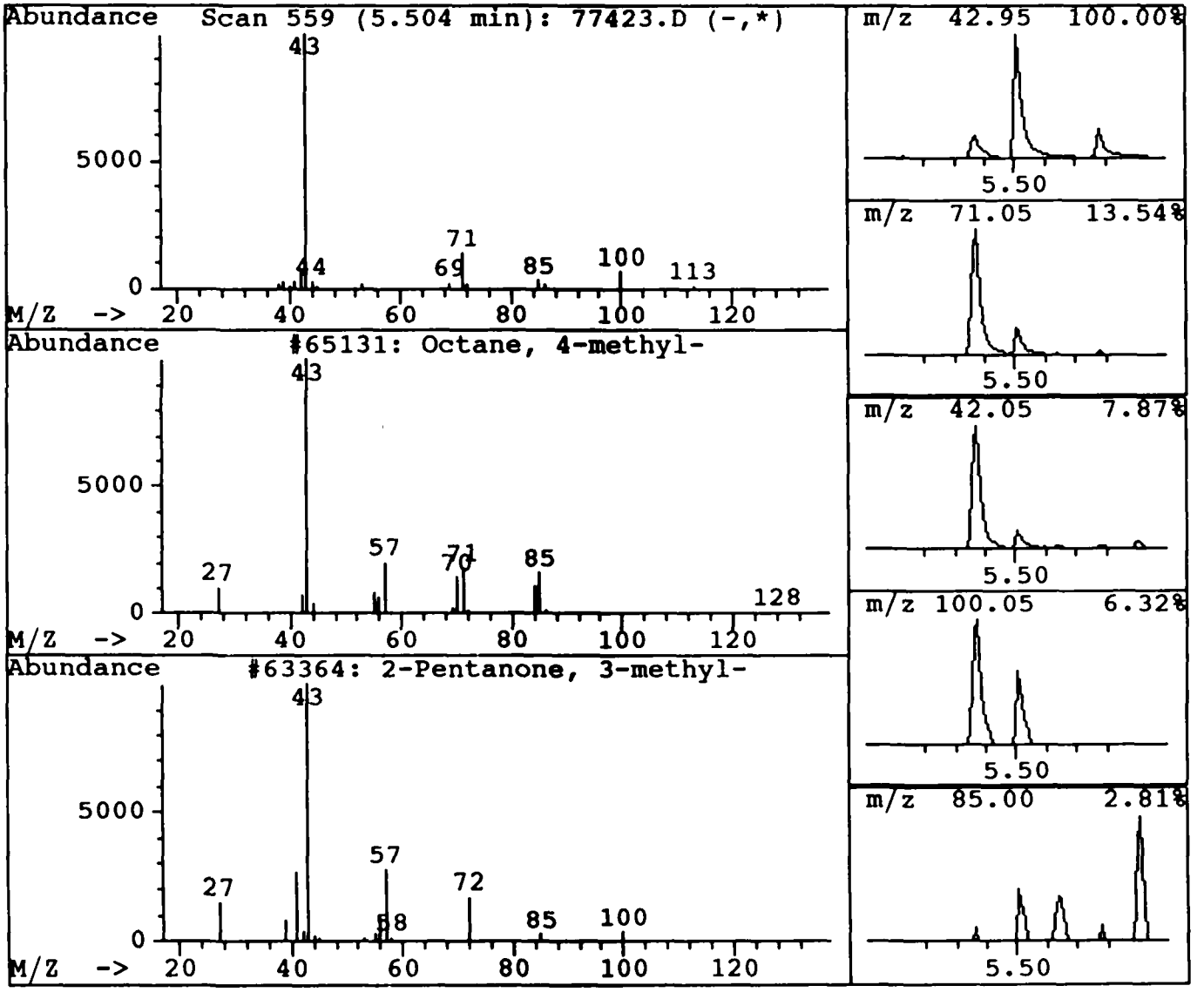
Tentatively Identified Compound (LSC) 000555

Operator ID: AK Date Acquired: 4 Apr 96 22:25
Data File: C:\CHEMPC\DATA\040496\77423.D
Name: SBLK6R EXT033096
Misc: HP6*AATSLA*MB-E*30.00gml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:28:09 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.50	17.96 ug/mL	229874	C130 1,4-Dichlorobenzene-	512072

Hit# of 2	Tentative ID	Ref#	CAS#	Qual
1	Octane, 4-methyl-	65131	002216-34-4	38
2	2-Pentanone, 3-methyl-	63364	000565-61-7	38



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000556

EPA SAMPLE NO.

SBLK6U

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: SBLK6U

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77494

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/14/96

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000557

EPA SAMPLE NO.

SBLK6U

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: SBLK6U

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77494

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: 1.0 ~~0.5~~ 2/24/96

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000558

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK6U

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: SBLK6U

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77494

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 04/02/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/10/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/14/96

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Aldol condensation	3.47	300	AJ
2.		Aldol condensation	4.20	85	AJ
3.		Aldol condensation	4.78	190	AJ
4.		Aldol condensation	5.52	150	AJ

QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 13:23

000559

Data File: C:\CHEMPC\DATA\041096\77494.D

Name: SBLK6U EXT040296

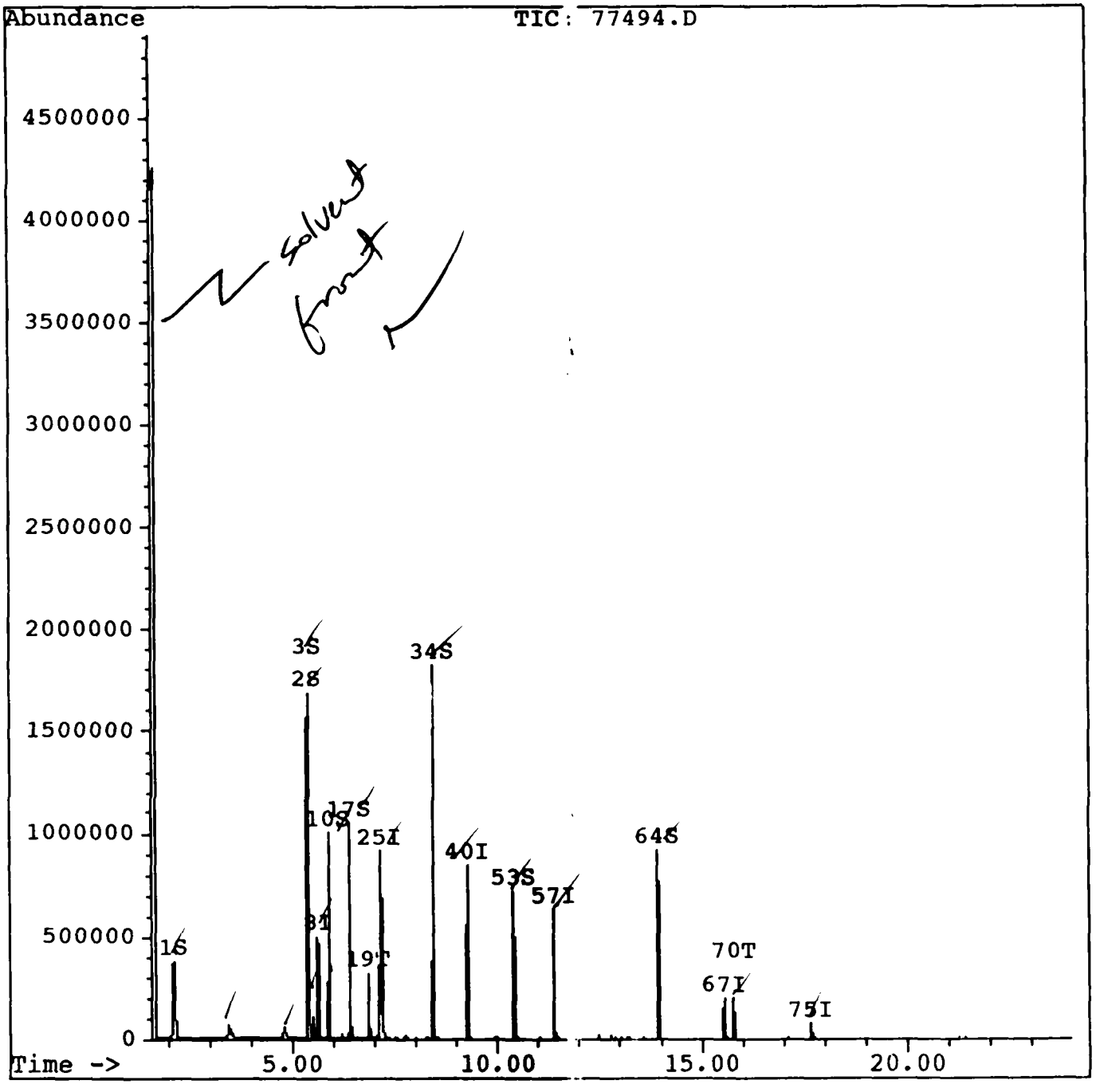
Misc: HP6*AATSLA*MB-A*30.00/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Quantitated using Single Level Calibration



QUANT REPORT

000560

Operator ID: AK Date Acquired: 10 Apr 96 13:23
Data File: C:\CHEMPC\DATA\041096\77494.D
Name: SBLK6U EXT040296
Misc: HP6*AATSLA*MB-A*30.00/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	125914	40.00	ug/mL	0.03
25) CI40 Naphthalene-d8	7.14	136	433351	40.00	ug/mL	0.01
40) CI50 Acenaphthene-d10	9.28	164	238744	40.00	ug/mL	0.00
57) CI60 Phenanthrene-d10	11.39	188	286570	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.55	240	116342	40.00	ug/mL	0.01
75) CI75 Perylene-d12	17.66	264	69811	40.00	ug/mL	0.01

System Monitoring Compounds

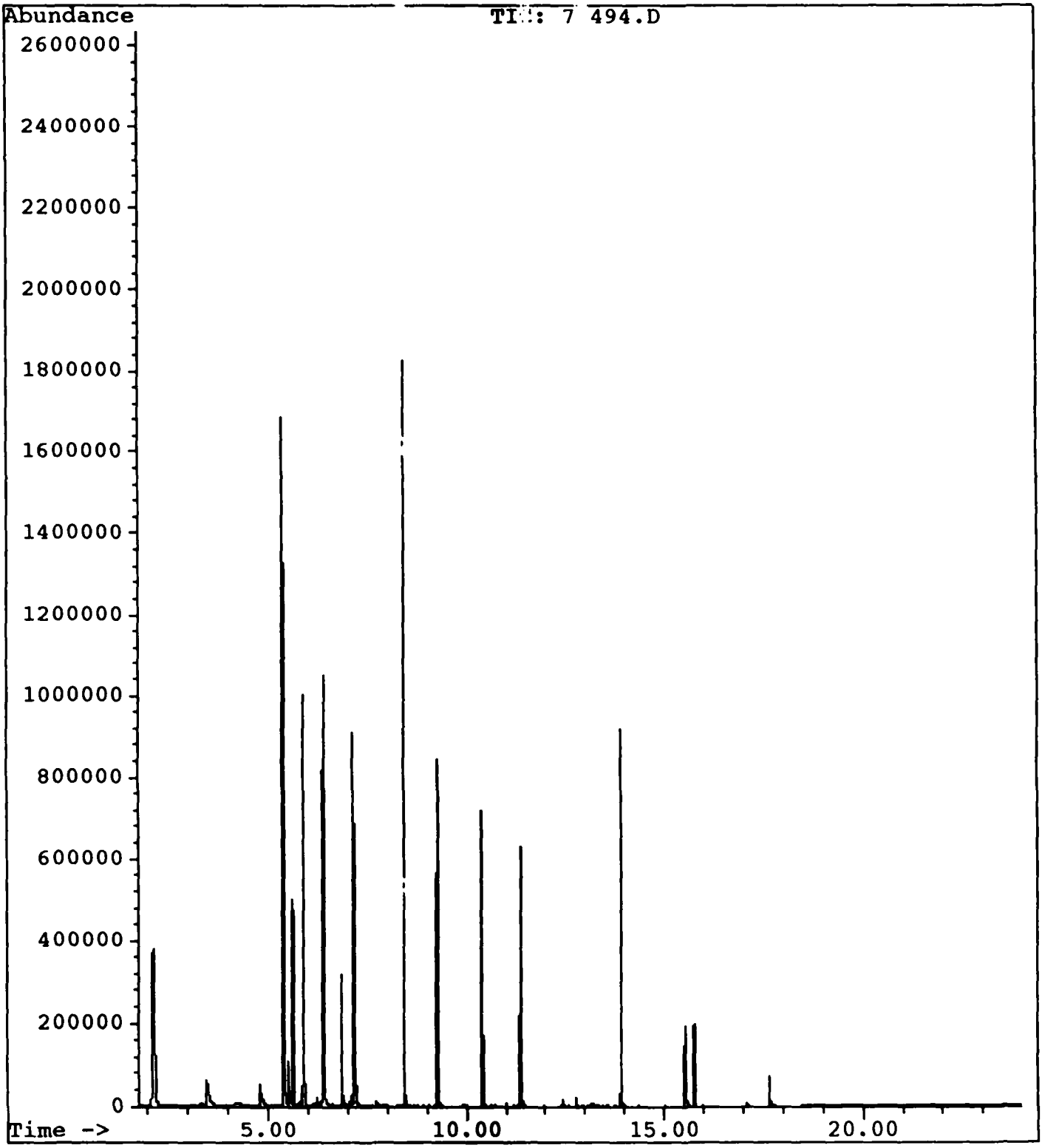
					%Recovery
1) CS50 2-Fluorophenol	2.15	112	362062	123.85 ug/mL	82.57%
2) CS70 2-Chlorophenol-d4	5.38	132	471091	117.70 ug/mL	78.46%
3) CS45 Phenol-d5	5.39	99	542770	114.85 ug/mL	76.56%
10) CS75 1,2-Dichlorobenzene-d	5.90	152	202695	72.50 ug/mL	72.50%
17) CS20 Nitrobenzene-d5	6.41	82	412993	80.66 ug/mL	80.66%
34) CS25 2-Fluorobiphenyl	8.44	172	653304	77.64 ug/mL	77.64%
53) CS55 2,4,6-Tribromophenol	10.41	330	96393	79.88 ug/mL	53.25%
64) CS30 Terphenyl-d14	13.94	244	361869	96.91 ug/mL	96.91%

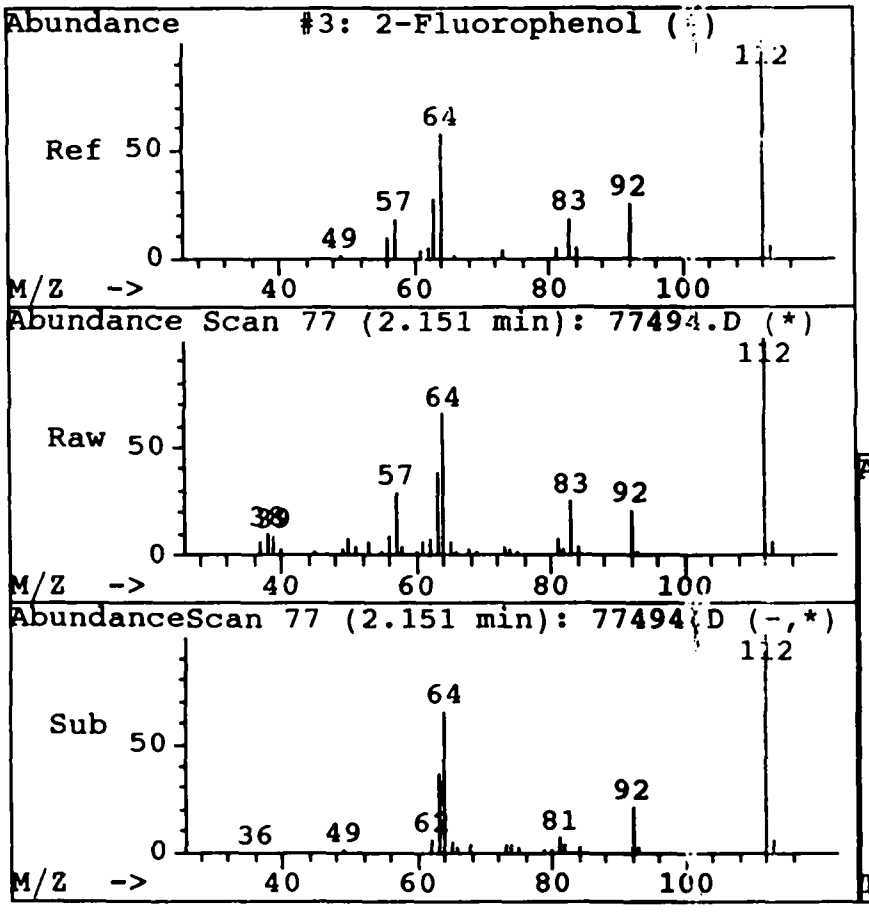
Target Compounds

					ISTD#
19) ~~C415 Isophorone~~	~~6.85~~	~~82~~	~~27414~~	~~3.19 ug/mL~~	~~002#~~
70) C745 bis(2-Ethylhexyl)phth	15.79	149	66797	21.70 ug/mL	005

(#) = qualifier out of range

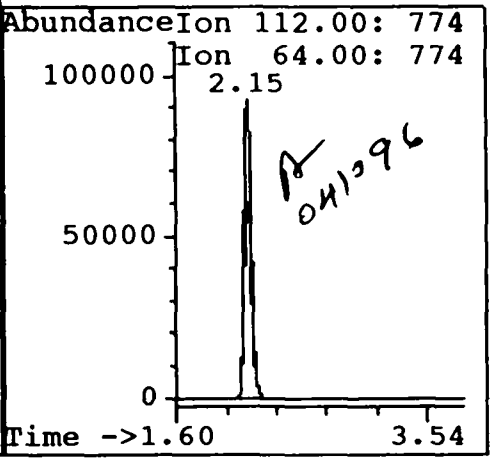
File: C:\CHEMPC\DATA\041096\77494.D
Operator: AK
Date Acquired: 10 Apr 96 13:23
Method File: OLMO3_1.M
Sample Name: SBLK6U EXT040296
Misc Info: HP6*AATSLA*MB-A*30.00/0.5ml/2uLL*MS517
ALS vial: 5

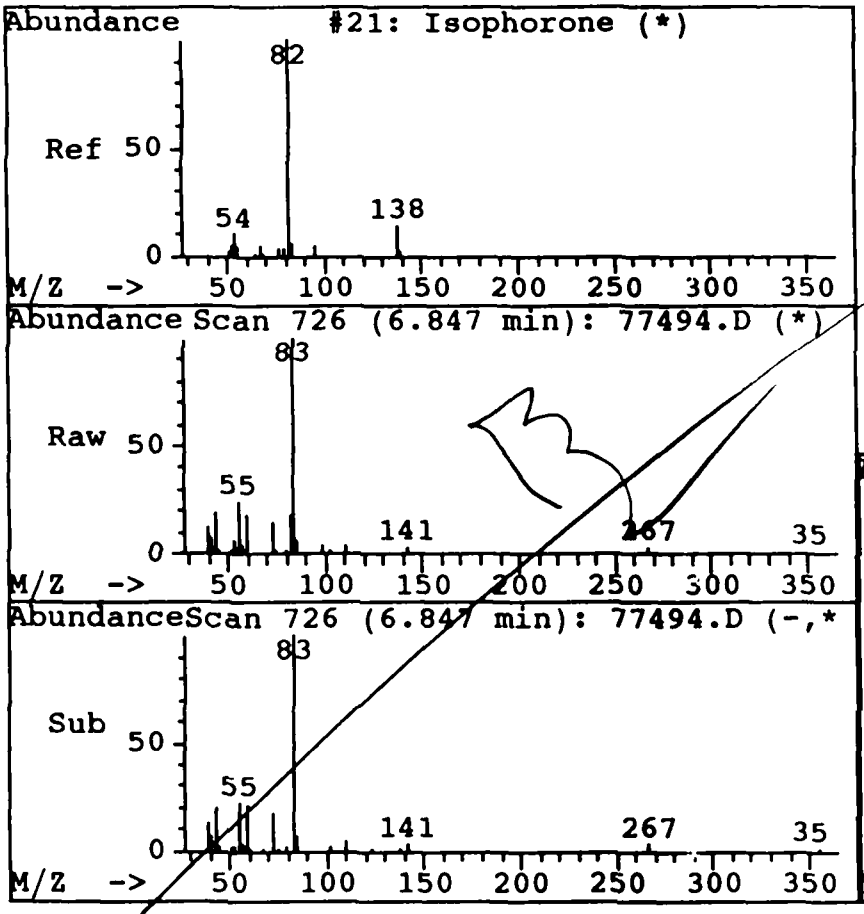




#1 Inst: HP6
CS50 2-Fluorophenol
Concen: 123.85 ug/mL m
RT: 2.15 min Scan# 77
Delta R.T. 0.47 min
Lab File: 77494.D
Acq: 10 Apr 96 13:23
SBLK6U
Tgt Ion: 112 Area: 362062

Ion	Ratio	Lower	Upper
112	100		
64	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

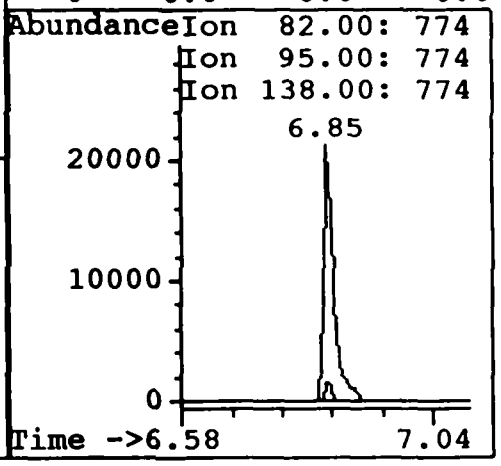


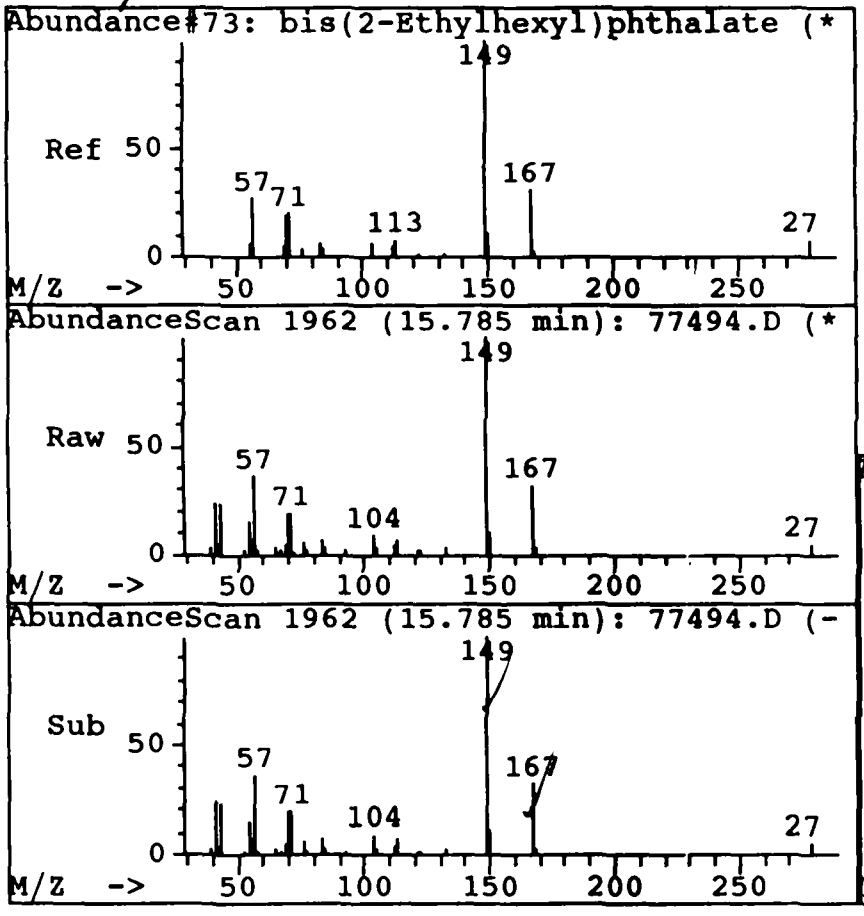


#19 Inst: HP6
C415 Isophorone
Concen: 3.19 ug/mL
RT: 6.85 min Scan# 726
Delta R.T. 0.17 min
Lab File: 77494.D
Acq: 10 Apr 96 13:23
SBLK6U

Tgt Ion: 82 Area: 27414

Ion	Ratio	Lower	Upper
82	100		
95	0.0	0.0	24.0
138	4.3	0.0	35.2
0	0.0	0.0	0.0

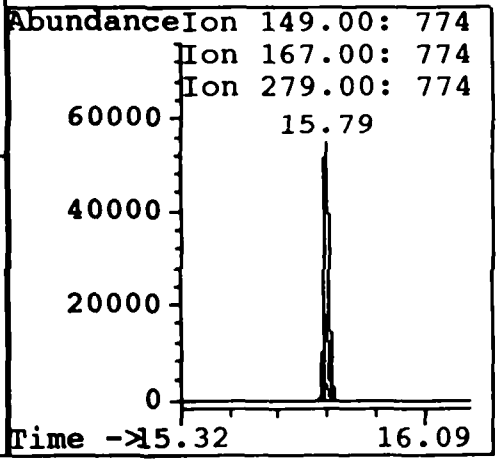




#70 Inst: HP6
C745 bis(2-Ethylhexyl)phthala
Concen: 21.70 ug/mL
RT: 15.79 min Scan# 1962
Delta R.T. 0.01 min
Lab File: 77494.D
Acq: 10 Apr 96 13:23
SBLK6U

Tgt Ion: 149 Area: 66797

Ion	Ratio	Lower	Upper
149	100		
167	28.7	13.5	53.5
279	4.4	0.0	29.5
0	0.0	0.0	0.0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 13:23

000564

Data File: C:\CHEMPC\DATA\041096\77494.D

Name: SBLK6U EXT040296

Misc: HP6*AATSLA*MB-A*30.00/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

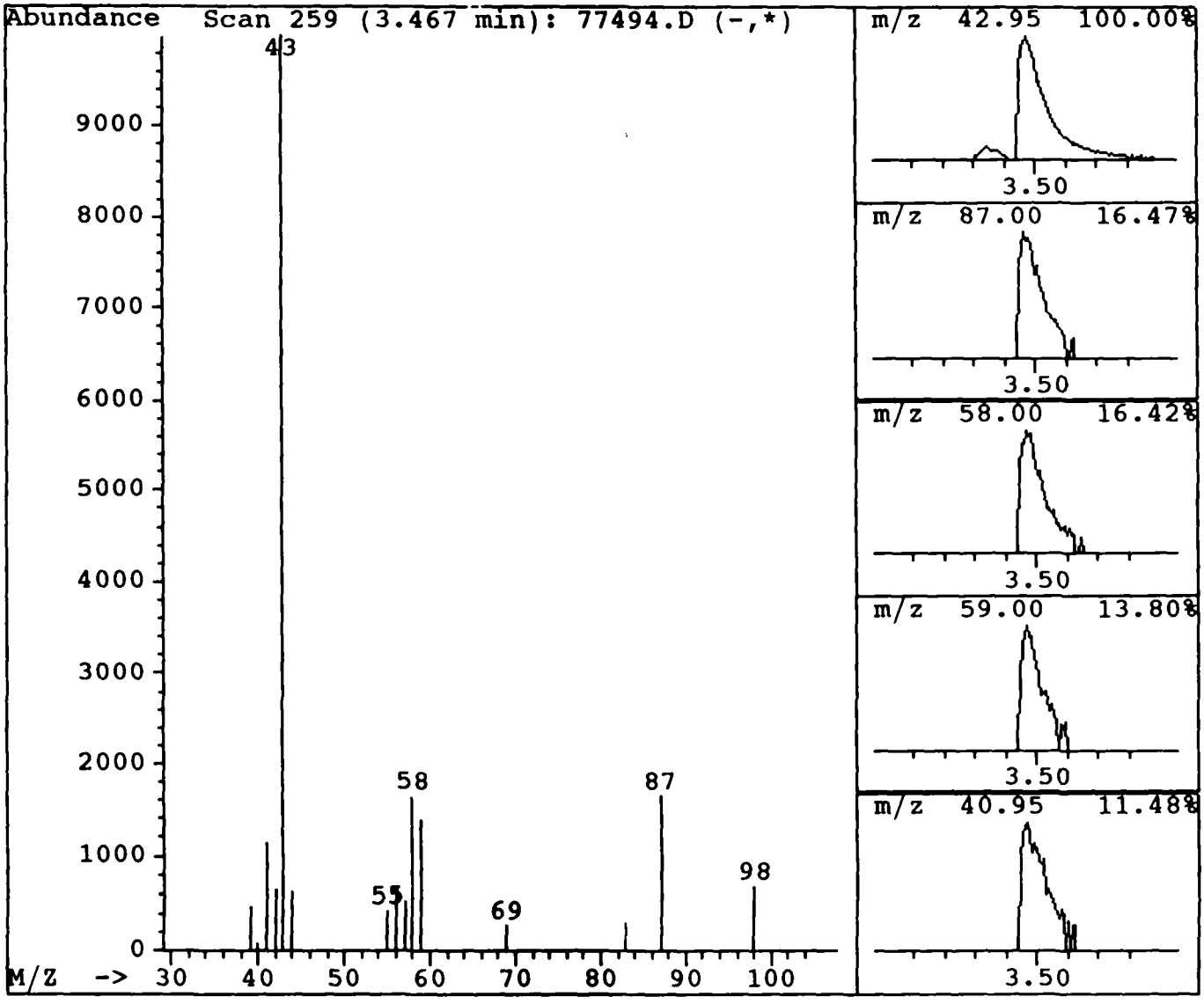
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
3.47	17.87 ug/mL	388938	CI30 1,4-Dichlorobenzene-	870447

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

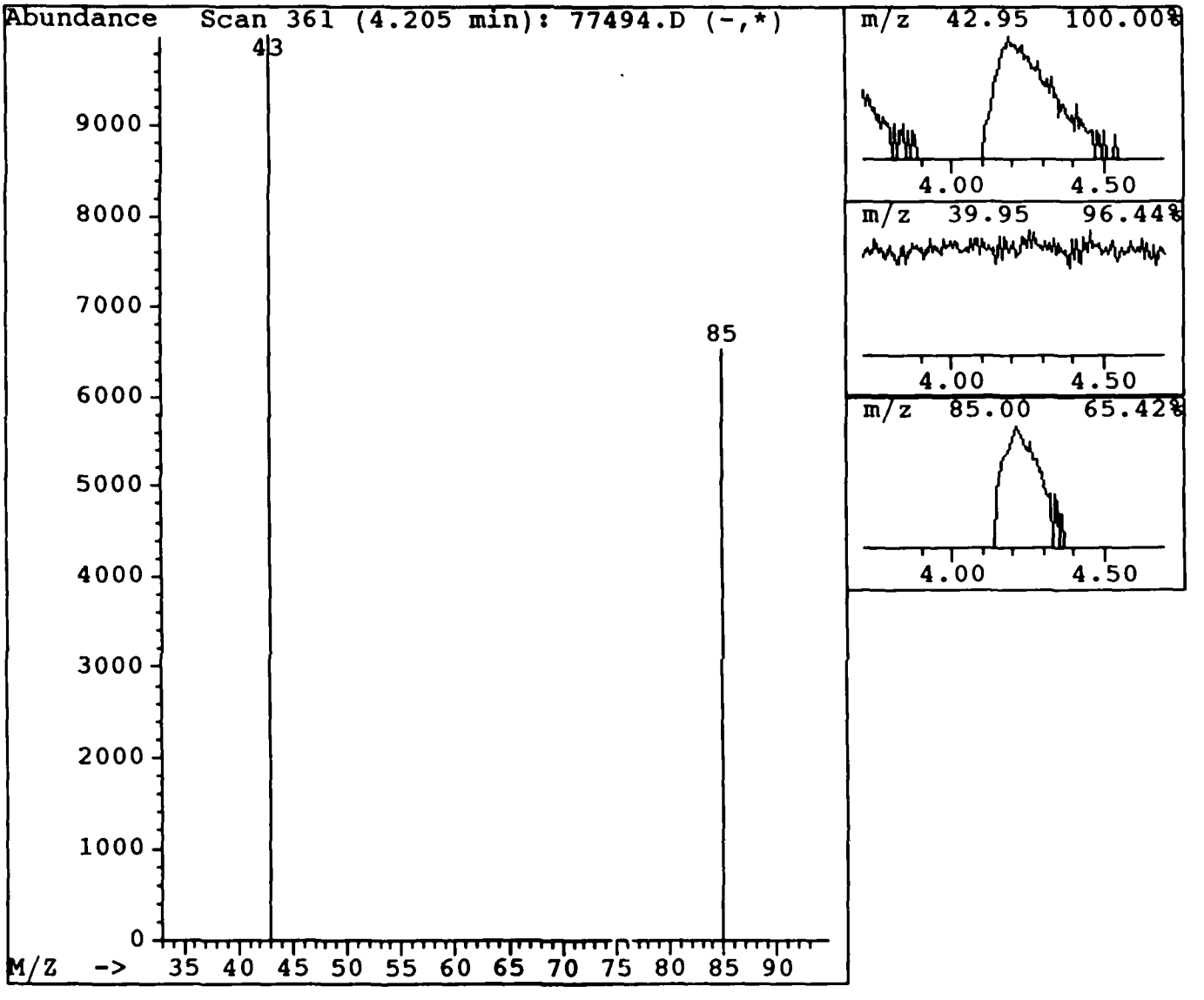
000565

Operator ID: AK Date Acquired: 10 Apr 96 13:23
Data File: C:\CHEMPC\DATA\041096\77494.D
Name: SBLK6U EXT040296
Misc: HP6*AATSLA*MB-A*30.00/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.20	5.11 ug/mL	111226	CI30 1,4-Dichlorobenzene-	870447

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 13:23

Data File: C:\CHEMPC\DATA\041096\77494.D

000566

Name: SBLK6U EXT040296

Misc: HP6*AATSLA*MB-A*30.00/0.5ml/2uLL*MS617

Method: OLMO3_1.M Inst: HP6

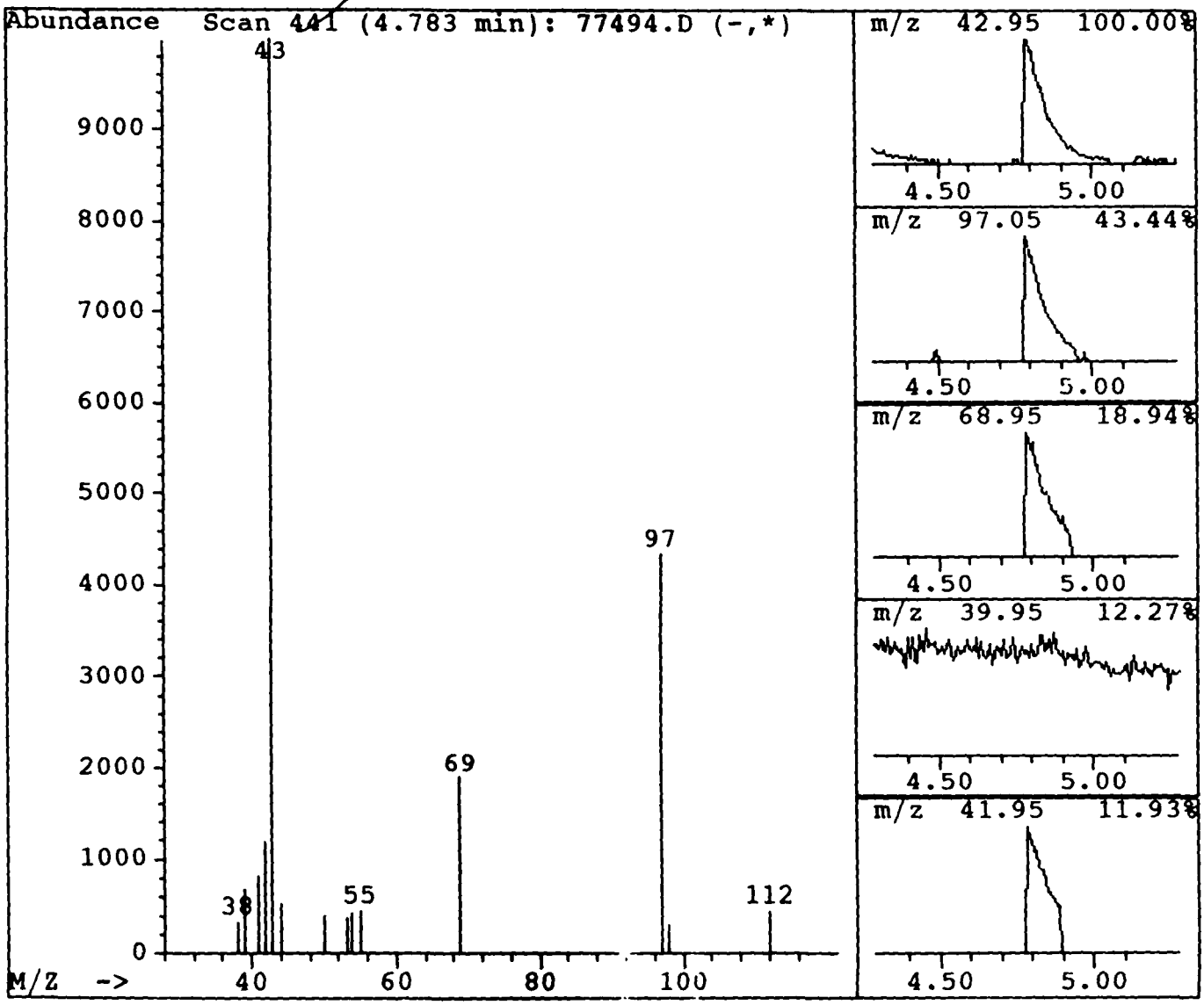
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
4.78	11.52 ug/mL	250749	CI30 1,4-Dichlorobenzene-	870447

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



Tentatively Identified Compound (LSC)

Operator ID: AK Date Acquired: 10 Apr 96 13:23

Data File: C:\CHEMPC\DATA\041096\77494.D

Name: SBLK6U EXT040296

Misc: HP6*AATSLA*MB-A*30.00/0.5ml/2uLL*MS5[illegible]

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

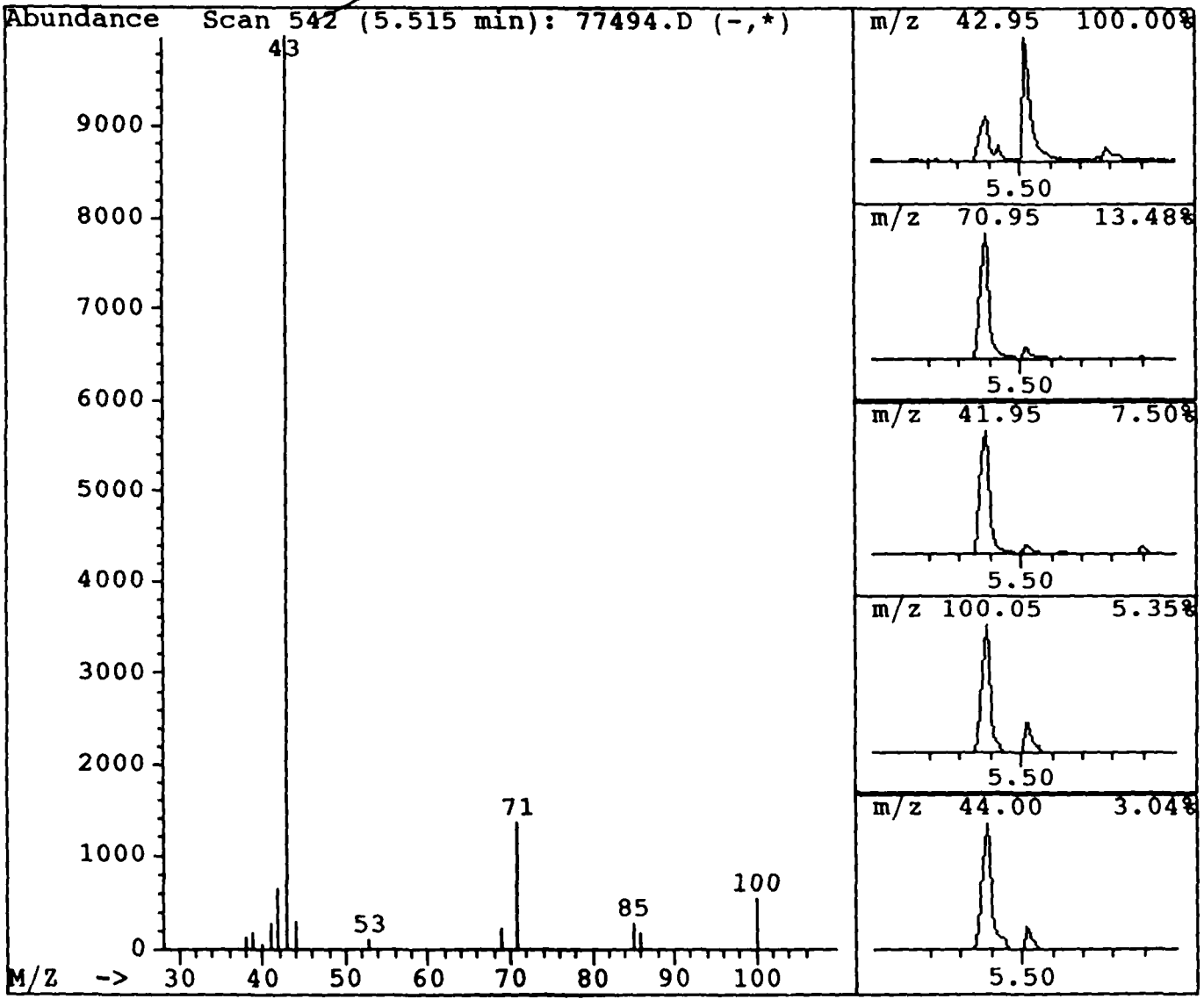
Last Calibration: Wed Apr 10 12:32:39 1996

000567

Library Searched: nbs75k.L

R.T.	Conc	Area	Relative to ISTD	ISTD Area
5.51	8.76 ug/mL	190553	CI30 1,4-Dichlorobenzene-	870447

Hit# of 0	Tentative ID	Ref#	CAS#	Qual
1	Unknown	0	000000-00-0	0



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000568

EPA SAMPLE NO.

FER99MS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541107MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77430

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/4/96

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1500	
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	1700	~~E~~
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	1200	
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	1400	
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	1400	
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	1800	~~E~~
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	1400	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FER99MS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541107MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77430

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/4/96

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	2000	E
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1200	
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	1600	E
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	460	B
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

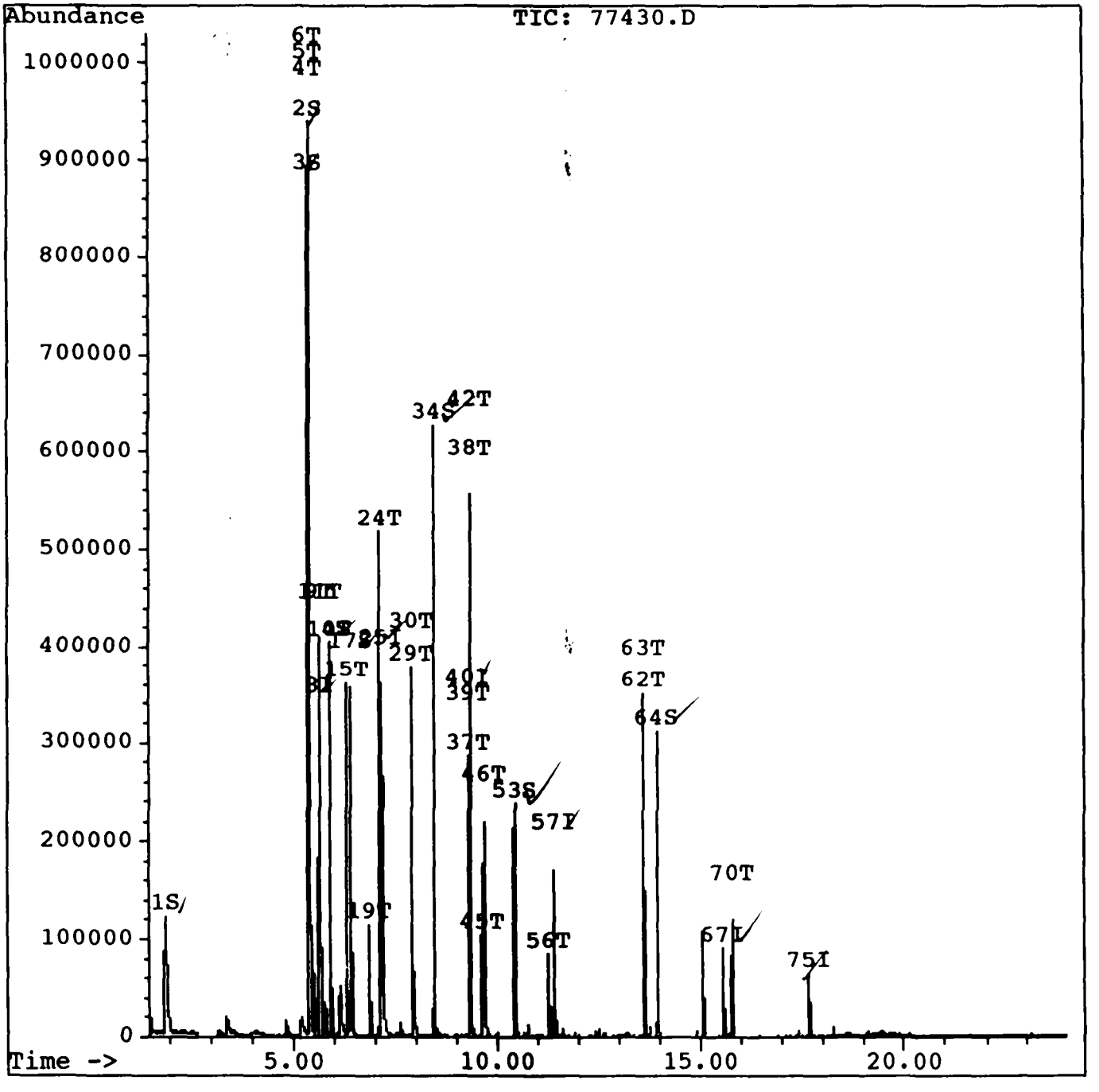
4/4/96

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 01:58

000570

Data File: C:\CHEMPC\DATA\040496\77430.D
Name: FER99MS EXT033096
Misc: HP6*USEPA*15411.07MS*30.00gml/0.5ml/2uLL*MS51
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:29:33 1996
Quantitated using Single Level Calibration



QUANT REPORT

000571

Operator ID: AK Date Acquired: 5 Apr 96 01:58
Data File: C:\CHEMPC\DATA\040496\77430.D
Name: FER99MS EXT033096
Misc: HP6*USEPA*15411.07MS*30.00gml/0.5ml/2uLL*MS51
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:29:33 1996
Quantitated using Single Level Calibration

Internal Standards

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8)	CI30 1,4-Dichlorobenzene-d	5.63	152	63268	40.00	ug/mL	0.01
25)	CI40 Naphthalene-d8	7.16	136	176043	40.00	ug/mL	-0.00
40)	CI50 Acenaphthene-d10	9.30	164	85109	40.00	ug/mL	0.00
57)	CI60 Phenanthrene-d10	11.41	188	94306	40.00	ug/mL	-0.01
67)	CI70 Chrysene-d12	15.57	240	68208	40.00	ug/mL	-0.00
75)	CI75 Perylene-d12	17.69	264	64146	40.00	ug/mL	-0.00

System Monitoring Compounds

							%Recovery
1)	CS50 2-Fluorophenol	1.89	112	132296	90.12	ug/mL	60.08%
2)	CS45 Phenol-d5	5.37	99	202803	88.19	ug/mL	58.79%
3)	CS70 2-Chlorophenol-d4	5.37	132	184557	95.12	ug/mL	63.41%
10)	CS75 1,2-Dichlorobenzene-d	5.90	152	84579	64.62	ug/mL	64.62%
17)	CS20 Nitrobenzene-d5	6.41	82	139161	67.46	ug/mL	67.46%
34)	CS25 2-Fluorobiphenyl	8.45	172	207587	69.67	ug/mL	69.67%
53)	CS55 2,4,6-Tribromophenol	10.43	330	34452	101.42	ug/mL	67.61%
64)	CS30 Terphenyl-d14	13.95	244	131359	82.16	ug/mL	82.16%

Target Compounds

							ISTD#
4)	~~C325 bis(2-Chloroethyl)eth~~	~~5.40~~	~~93~~	~~7416~~	~~3.48~~	~~ug/mL~~	001#
5)	C315 Phenol	5.40	94	194249	78.53	ug/mL	001#
6)	C330 2-Chlorophenol	5.40	128	180886	86.76	ug/mL	001
9)	C340 1,4-Dichlorobenzene	5.66	146	149001	63.89	ug/mL	001
11)	~~C350 1,2-Dichlorobenzene~~	~~5.66~~	~~146~~	~~149001~~	~~70.64~~	~~ug/mL~~	001
14)	~~C375 Hexachloroethane~~	~~5.90~~	~~117~~	~~17014~~	~~16.00~~	~~ug/mL~~	001#
15)	C370 N-Nitroso-di-n-propyl	6.31	70	95277	70.71	ug/mL	001
19)	~~C415 Isophorone~~	~~6.86~~	~~82~~	~~9407~~	~~2.90~~	~~ug/mL~~	002#
24)	C445 1,2,4-Trichlorobenzen	7.13	180	116065	72.89	ug/mL	002
29)	C465 4-Chloro-3-methylphen	7.90	107	119341	91.02	ug/mL	002
30)	~~C470 2-Methylnaphthalene~~	~~7.90~~	~~142~~	~~97930~~	~~34.73~~	~~ug/mL~~	002#
37)	~~C535 Dimethylphthalate~~	~~9.30~~	~~163~~	~~11923~~	~~4.68~~	~~ug/mL~~	003#
38)	~~C540 Acenaphthylene~~	~~9.34~~	~~152~~	~~77581~~	~~20.40~~	~~ug/mL~~	003#
39)	~~C543 2,6-Dinitrotoluene~~	~~9.30~~	~~165~~	~~10357~~	~~18.76~~	~~ug/mL~~	003#
42)	C550 Acenaphthene	9.34	153	164695	72.91	ug/mL	003
45)	C560 4-Nitrophenol	9.63	109	30473	102.87	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.68	165	50767	70.61	ug/mL	003#
56)	C635 Pentachlorophenol	11.27	266	22441	63.76	ug/mL	004
62)	~~C655 Fluoranthene~~	~~13.63~~	~~202~~	~~196335~~	~~79.54~~	~~ug/mL~~	004
63)	C715 Pyrene	13.63	202	196503	80.06	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.80	149	44041	23.91	ug/mL	005

HD = FALSE POSITIVE

(#) = qualifier out of range

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 000572

EPA SAMPLE NO.

FER99MSD

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541108MSD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77431

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ ~~0.5~~ 2 4/16/96

GPC Cleanup: (Y/N) Y pH: 8.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1600	E
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	1800	E
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	1300	
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	1400	
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	1500	
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	1900	E
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	970	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	970	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	970	U
83-32-9	Acenaphthene	1500	

4/16/96

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

000573 EPA SAMPLE NO.

FER99MSD

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 1541108MSD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 77431

Level: (low/med) LOW Date Received: 03/28/96

% Moisture: 14 decanted: (Y/N) N Date Extracted: 03/30/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 04/05/96

Injection Volume: 2.0 (uL) Dilution Factor: ~~1.0~~ 5 4/4/96

GPC Cleanup: (Y/N) Y pH: 8.0

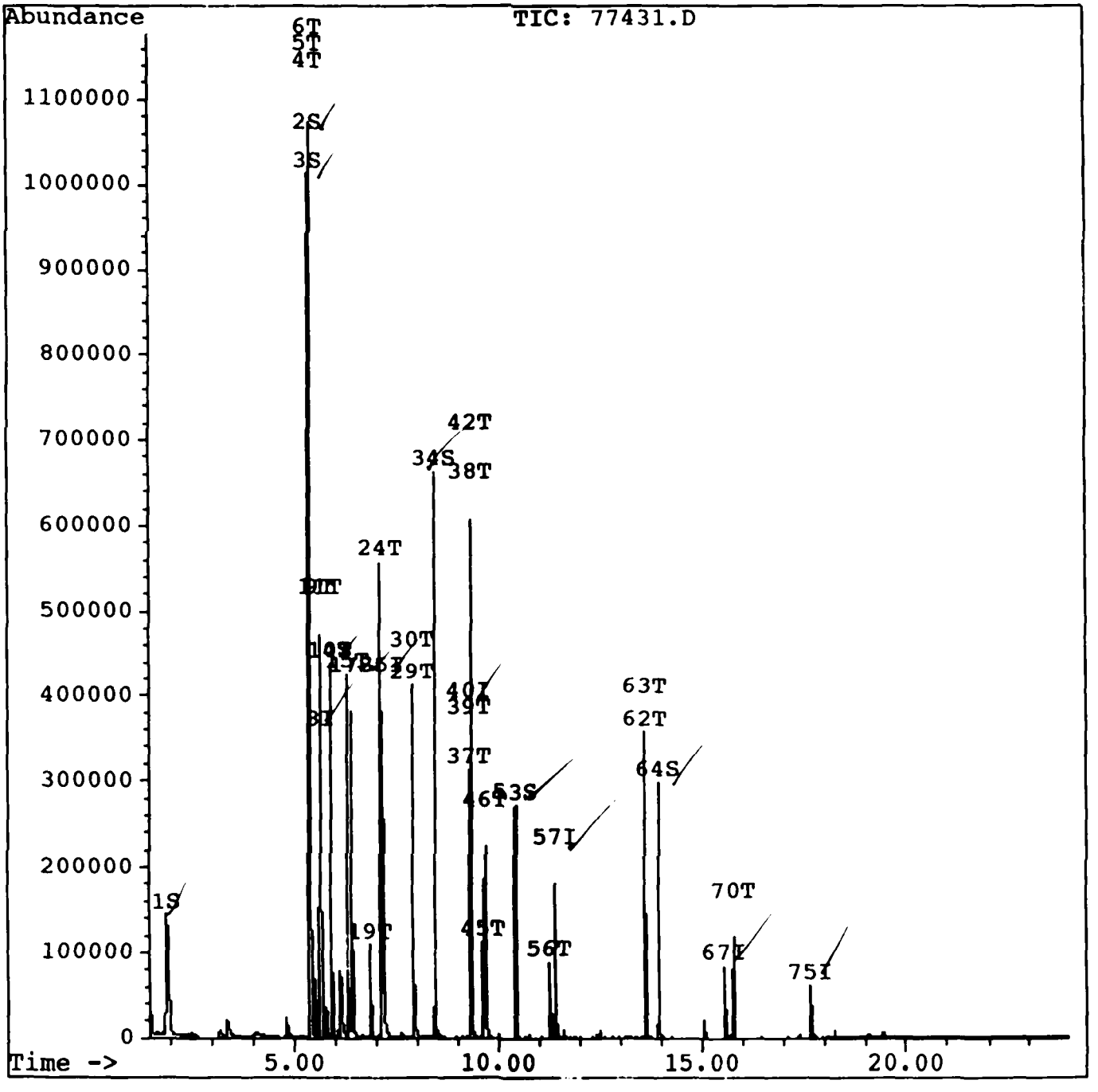
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	970	U
100-02-7	4-Nitrophenol	2000 ✓	~~E~~
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	1400 ✓	
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	970	U
534-52-1	4,6-Dinitro-2-methylphenol	970	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1200 ✓	
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	1600 ✓	~~E~~
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	440 ✓	B
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenz(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

4/4/96

QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 02:28
Data File: C:\CHEMPC\DATA\040496\77431.D
Name: FER99MSD EXT033096
Misc: HP6*USEPA*15411.08MSD*30.00gml/0.5ml/2uLL*MS5
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Thu Apr 04 18:29:33 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 5 Apr 96 02:28

000575

Data File: C:\CHEMPC\DATA\040496\77431.D

Name: FER99MSD EXT033096

Misc: HP6*USEPA*15411.08MSD*30.00gml/0.5ml/2uLL*MS5

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Thu Apr 04 18:29:33 1996

Quantitated using Single Level Calibration

Internal Standards Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.63	152	68006	40.00	ug/mL	0.01
25) CI40 Naphthalene-d8	7.15	136	186843	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.30	164	88974	40.00	ug/mL	-0.00
57) CI60 Phenanthrene-d10	11.41	188	95822	40.00	ug/mL	-0.01
67) CI70 Chrysene-d12	15.57	240	69641	40.00	ug/mL	-0.00
75) CI75 Perylene-d12	17.69	264	64016	40.00	ug/mL	-0.00
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	1.91	112	158244	100.28	ug/mL	66.86%
2) CS45 Phenol-d5	5.37	99	223516	90.42	ug/mL	60.28%
3) CS70 2-Chlorophenol-d4	5.37	132	211632	101.48	ug/mL	67.65%
10) CS75 1,2-Dichlorobenzene-d	5.90	152	92341	65.64	ug/mL	65.64%
17) CS20 Nitrobenzene-d5	6.41	82	148371	67.77	ug/mL	67.77%
34) CS25 2-Fluorobiphenyl	8.45	172	227160	72.93	ug/mL	72.93%
53) CS55 2,4,6-Tribromophenol	10.43	330	42115	122.02	ug/mL	81.35%
64) CS30 Terphenyl-d14	13.95	244	133273	81.64	ug/mL	81.64%
Target Compounds						ISTD#
4) ~~C325 bis(2-Chloroethyl)eth~~	~~5.39~~	~~93~~	~~6897~~	~~3.01~~	~~ug/mL~~ FP	001#
5) C315 Phenol	5.40	94	215946	81.22	ug/mL	001#
6) C330 2-Chlorophenol	5.40	128	206693	92.23	ug/mL	001
9) C340 1,4-Dichlorobenzene	5.66	146	170188	67.89	ug/mL	001
11) ~~C350 1,2-Dichlorobenzene~~	~~5.66~~	~~146~~	~~170137~~	~~75.04~~	~~ug/mL~~ FP	001
14) ~~C375 Hexachloroethane~~	~~5.90~~	~~117~~	~~18883~~	~~16.52~~	~~ug/mL~~ FP	001#
15) C370 N-Nitroso-di-n-propyl	6.31	70	104494	72.15	ug/mL	001
19) ~~C415 Isophorone~~	~~6.86~~	~~82~~	~~9888~~	~~2.87~~	~~ug/mL~~ FP	002#
24) C445 1,2,4-Trichlorobenzen	7.13	180	127387	75.38	ug/mL	002
29) C465 4-Chloro-3-methylphen	7.90	107	135139	97.11	ug/mL	002
30) ~~C470 2-Methylnaphthalene~~	~~7.90~~	~~142~~	~~109288~~	~~36.52~~	~~ug/mL~~ FP	002#
37) ~~C535 Dimethylphthalate~~	~~9.30~~	~~163~~	~~12288~~	~~4.61~~	~~ug/mL~~	003#
38) ~~C540 Acenaphthylene~~	~~9.34~~	~~152~~	~~83702~~	~~21.05~~	~~ug/mL~~	003#
39) ~~C543 2,6-Dinitrotoluene~~	~~9.30~~	~~165~~	10342	17.92	ug/mL	003#
42) C550 Acenaphthene	9.34	153	178226	75.47	ug/mL	003
45) C560 4-Nitrophenol	9.63	109	32596	105.26	ug/mL	003#
46) C570 2,4-Dinitrotoluene	9.68	165	53006	70.52	ug/mL	003#
56) C635 Pentachlorophenol	11.27	266	21679	60.62	ug/mL	004
62) ~~C655 Fluoranthene~~	~~13.63~~	~~202~~	~~201457~~	~~80.32~~	~~ug/mL~~	004
63) C715 Pyrene	13.63	202	201266	80.32	ug/mL	005
70) C745 bis(2-Ethylhexyl)phth	15.80	149	42393	22.54	ug/mL	005

FP = FALSE POSITIVE

(#) = qualifier out of range

RUN # 074 APR 1, 1990 02:20:56
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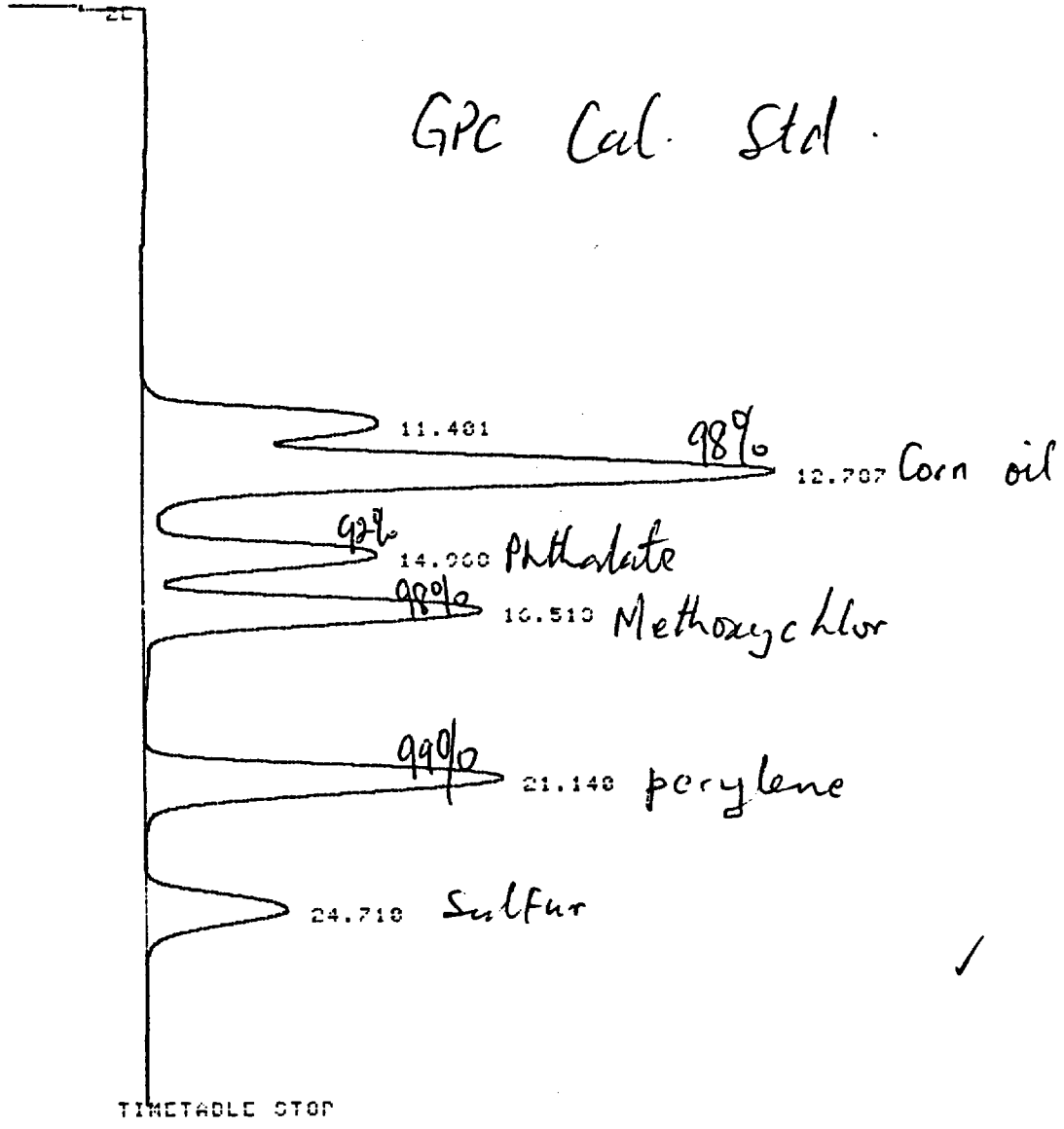
000576

GPC Cal. Std.



✓

000577

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BREAK

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START Source
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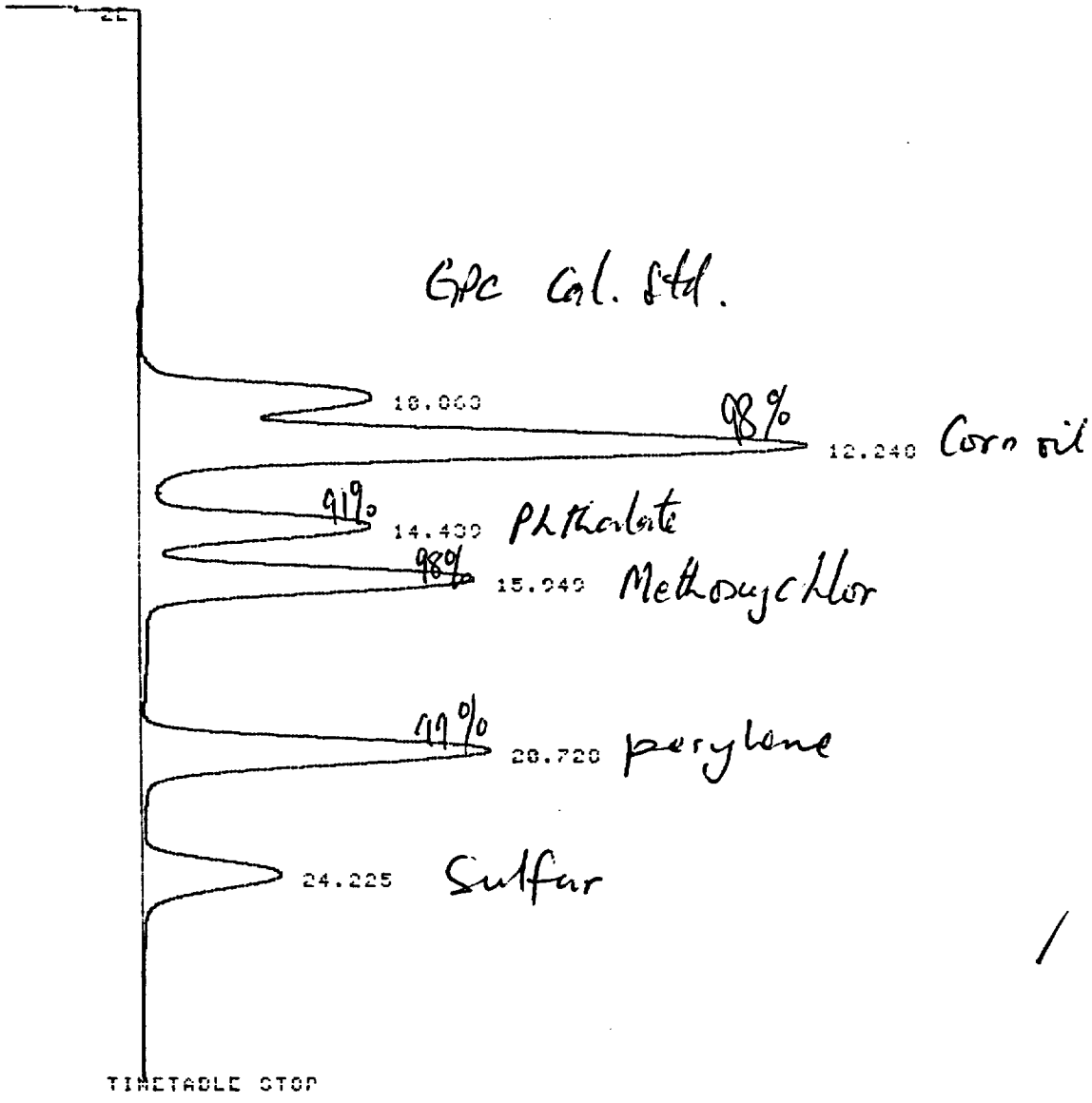


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TIMETABLE STOP
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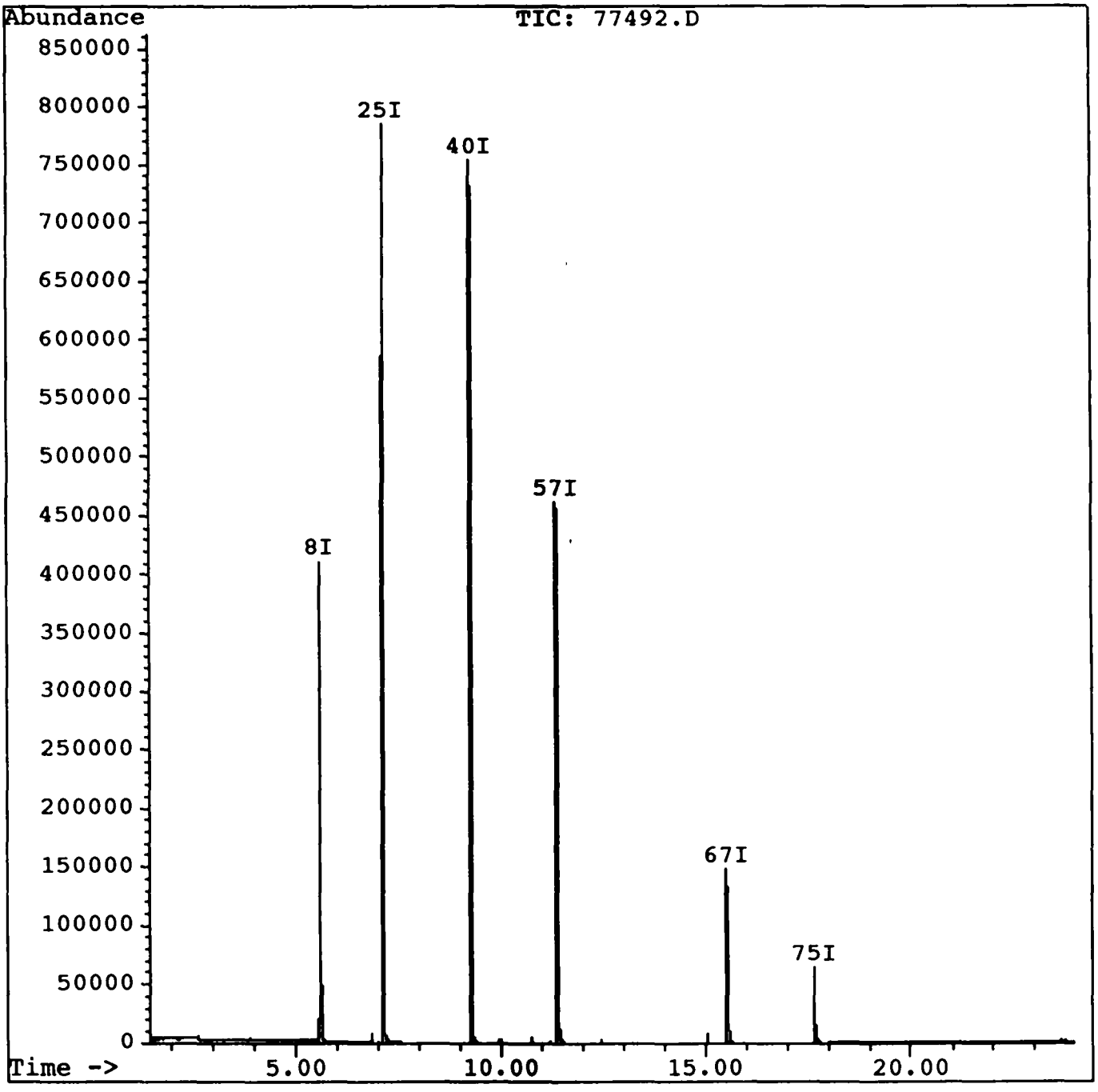
* RUN # 079 APR 1, 1996 05:02:27
START Source

GPC BLK A

QUANT REPORT

000579

Operator ID: AK Date Acquired: 10 Apr 96 12:23
Data File: C:\CHEMPC\DATA\041096\77492.D
Name: GPCBLK EXT040196
Misc: HP6*AATSLA*GPCBLK-A*10ml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996
Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 12:23

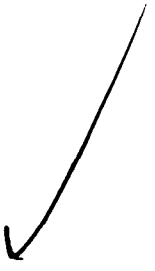
000580

Data File: C:\CHEMPC\DATA\041096\77492.D
Name: GPCBLK EXT040196
Misc: HP6*AATSLA*GPCBLK-A*10ml/0.5ml/2uLL*MS517
Method: OLM03_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.60	152	109749	40.00	ug/mL	0.00
25) CI40 Naphthalene-d8	7.13	136	411997	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.28	164	218754	40.00	ug/mL	-0.01
57) CI60 Phenanthrene-d10	11.39	188	243138	40.00	ug/mL	-0.01
67) CI70 Chrysene-d12	15.55	240	104083	40.00	ug/mL	0.01
75) CI75 Perylene-d12	17.67	264	70350	40.00	ug/mL	0.01
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	0.00	112	0	0.00	ug/mL	0.00%
2) CS70 2-Chlorophenol-d4	0.00	132	0	0.00	ug/mL	0.00%
3) CS45 Phenol-d5	5.60	99	1383	0.34	ug/mL	0.22%
10) CS75 1,2-Dichlorobenzene-d	0.00	152	0	0.00	ug/mL	0.00%
17) CS20 Nitrobenzene-d5	0.00	82	0	0.00	ug/mL	0.00%
34) CS25 2-Fluorobiphenyl	0.00	172	0	0.00	ug/mL	0.00%
53) CS55 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/mL	0.00%
64) CS30 Terphenyl-d14	0.00	244	0	0.00	ug/mL	0.00%

Target Compounds ISTD#



(#) = qualifier out of range

RUN # 985 APR 2, 1996 06:26:07
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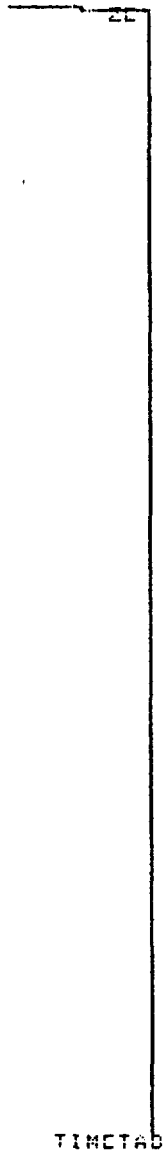


GPC BLK A

TIMETABLE STOP

QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 12:52

Data File: C:\CHEMPC\DATA\041096\77493.D

000582

Name: GPCBLK EXT040296

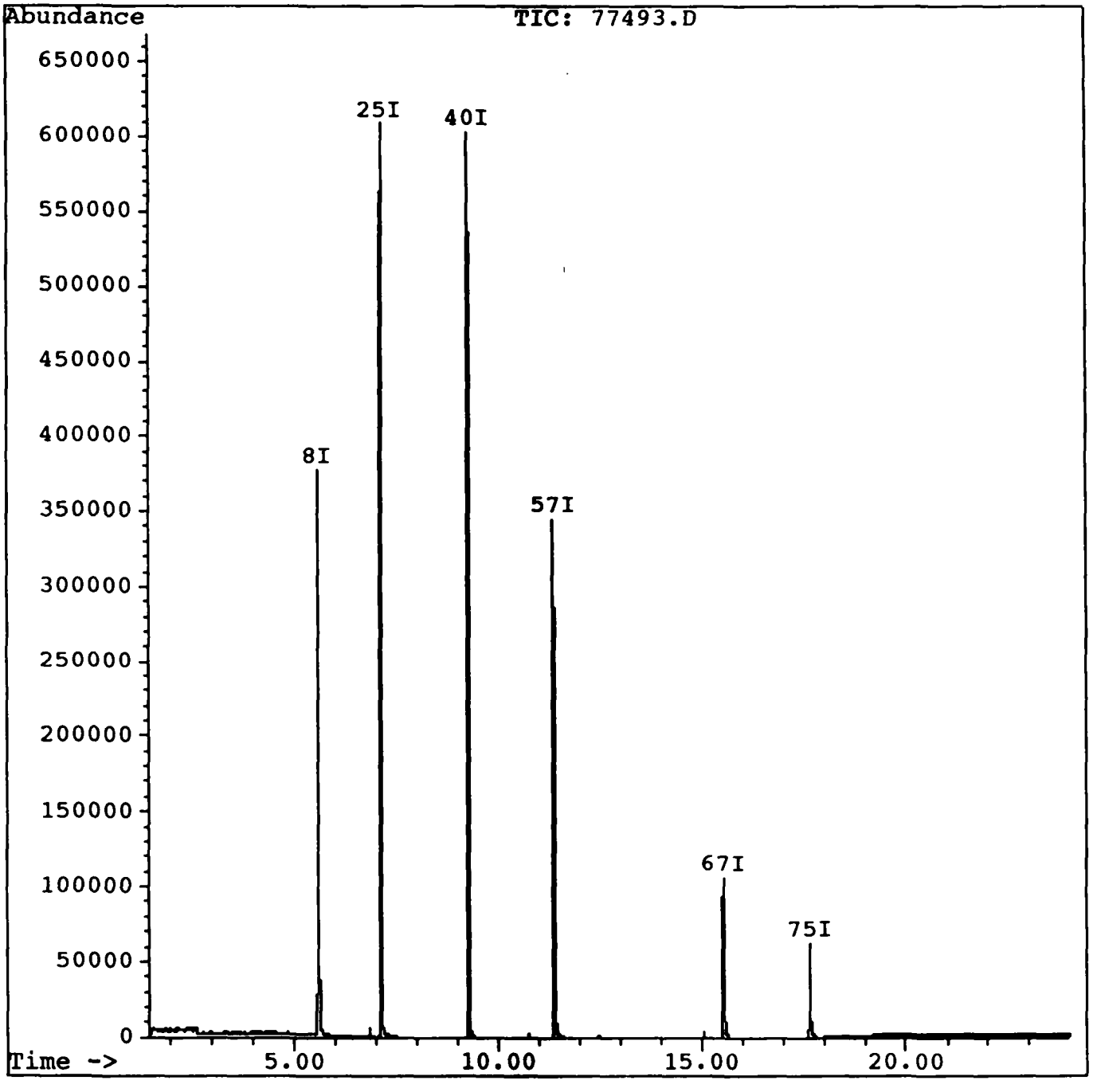
Misc: HP6*AATSLA*GPCBLK-A*10ml/0.5ml/2uLL*MS517

Method: OLMO3_1.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Wed Apr 10 12:32:39 1996

Quantitated using Single Level Calibration



QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 12:52
Data File: C:\CHEMPC\DATA\041096\77493.D
Name: GPCBLK EXT040296
Misc: HP6*AATSLA*GPCBLK-A*10ml/0.5ml/2uLL*MS517
Method: OLMO3_1.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Wed Apr 10 12:32:39 1996
Quantitated using Single Level Calibration

Internal Standards

Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
8) CI30 1,4-Dichlorobenzene-d	5.60	152	94947	40.00	ug/mL	-0.00
25) CI40 Naphthalene-d8	7.14	136	347044	40.00	ug/mL	-0.00
40) CI50 Acenaphthene-d10	9.28	164	165021	40.00	ug/mL	-0.01
57) CI60 Phenanthrene-d10	11.39	188	173134	40.00	ug/mL	-0.00
67) CI70 Chrysene-d12	15.55	240	82142	40.00	ug/mL	0.01
75) CI75 Perylene-d12	17.67	264	62604	40.00	ug/mL	0.01
System Monitoring Compounds						%Recovery
1) CS50 2-Fluorophenol	0.00	112	0	0.00	ug/mL	0.00%
2) CS70 2-Chlorophenol-d4	0.00	132	0	0.00	ug/mL	0.00%
3) CS45 Phenol-d5	5.60	99	843	0.24	ug/mL	0.16%
10) CS75 1,2-Dichlorobenzene-d	0.00	152	0	0.00	ug/mL	0.00%
17) CS20 Nitrobenzene-d5	0.00	82	0	0.00	ug/mL	0.00%
34) CS25 2-Fluorobiphenyl	0.00	172	0	0.00	ug/mL	0.00%
53) CS55 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/mL	0.00%
64) CS30 Terphenyl-d14	0.00	244	0	0.00	ug/mL	0.00%

Target Compounds ISTD#

(#) = qualifier out of range

CONTINUING CALIBRATION REPORT 000584

Method: OLM03_S.M Protocol: CLP 3/90
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Continuing Calibration File: 77491.D Inst: HP6

PK#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
8	I	CI30 1,4-Dichlorobenzene-d4	1.000	1.000	0.0		
1	S	CS50 2-Fluorophenol	1.010	0.929	8.1	0.600	25.0
2	S	CS70 2-Chlorophenol-d4	1.298	1.272	2.1	0.800	25.0
3	S	CS45 Phenol-d5	1.379	1.501	8.9	0.800	25.0
4	T	C325 bis(2-Chloroethyl)ether	1.274	1.423	11.7	0.700	25.0
5	T	C330 2-Chlorophenol	1.353	1.390	2.8	0.800	25.0
6	T	C315 Phenol	1.462	1.599	9.3	0.800	25.0
7	T	C335 1,3-Dichlorobenzene	1.453	1.451	0.1	0.600	25.0
9	T	C340 1,4-Dichlorobenzene	1.471	1.495	1.6	0.500	25.0
10	S	CS75 1,2-Dichlorobenzene-d4	0.883	0.888	0.5	0.400	25.0
11	T	C350 1,2-Dichlorobenzene	1.366	1.401	2.5	0.400	25.0
12	T	C360 2,2'-oxybis(1-Chloroprop	1.724	1.850	7.3	0.010	
13	T	C355 2-Methylphenol	1.111	1.117	0.5	0.700	25.0
14	T	C375 Hexachloroethane	0.628	0.696	10.8	0.300	25.0
15	T	C370 N-Nitroso-di-n-propylami	0.976	1.021	4.6	0.500	25.0
16	T	C365 4-Methylphenol	1.160	1.171	1.0	0.600	25.0
25	I	CI40 Naphthalene-d8	1.000	1.000	0.0		
17	S	CS20 Nitrobenzene-d5	0.480	0.473	1.5	0.200	25.0
18	T	C410 Nitrobenzene	0.451	0.460	2.1	0.200	25.0
19	T	C415 Isophorone	0.865	0.794	8.1	0.400	25.0
0	T	C420 2-Nitrophenol	0.246	0.220	10.4	0.100	25.0
1	T	C425 2,4-Dimethylphenol	0.392	0.357	8.8	0.200	25.0
22	T	C435 bis(2-Chloroethoxy)metha	0.534	0.513	3.9	0.300	25.0
23	T	C440 2,4-Dichlorophenol	0.350	0.297	15.2	0.200	25.0
24	T	C445 1,2,4-Trichlorobenzene	0.374	0.344	8.1	0.200	25.0
26	T	C450 Naphthalene	1.129	1.013	10.3	0.700	25.0
27	T	C455 4-Chloroaniline	0.489	0.394	19.3	0.010	
28	T	C460 Hexachlorobutadiene	0.219	0.228	4.3	0.010	
29	T	C465 4-Chloro-3-methylphenol	0.349	0.310	11.2	0.200	25.0
30	T	C470 2-Methylnaphthalene	0.732	0.659	10.0	0.400	25.0
40	I	CI50 Acenaphthene-d10	1.000	1.000	0.0		
31	T	C510 Hexachlorocyclopentadien	0.487	0.456	6.3	0.010	
32	T	C515 2,4,6-Trichlorophenol	0.444	0.414	6.7	0.200	25.0
33	T	C520 2,4,5-Trichlorophenol	0.461	0.413	10.5	0.200	25.0
34	S	CS25 2-Fluorobiphenyl	1.384	1.410	1.9	0.700	25.0
35	T	C525 2-Chloronaphthalene	1.286	1.264	1.7	0.800	25.0
36	T	C530 2-Nitroaniline	0.443	0.440	0.7	0.010	
37	T	C535 Dimethylphthalate	1.350	1.268	6.1	0.010	
38	T	C540 Acenaphthylene	1.886	1.816	3.7	0.900	25.0
39	T	C543 2,6-Dinitrotoluene	0.296	0.273	7.7	0.200	25.0
41	T	C545 3-Nitroaniline	0.276	0.241	12.5	0.010	
42	T	C550 Acenaphthene	1.120	1.092	2.5	0.900	25.0
43	T	C555 2,4-Dinitrophenol	0.185	0.084	54.7	0.010	
44	T	C565 Dibenzofuran	1.578	1.510	4.3	0.800	25.0
5	T	C560 4-Nitrophenol	0.162	0.115	29.1	0.010	
6	T	C570 2,4-Dinitrotoluene	0.373	0.339	8.9	0.200	25.0

(*) = Out of Range (**) = % Dev fails CLP maximum acceptance criteria

CONTINUING CALIBRATION REPORT

Method: OLM03_S.M Protocol: CLP 3/90

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Continuing Calibration File: 77491.D Inst: HP6

000585

PK#		Compound	AvgRRF	CCRRF	%Dev	Min RF	Max % D
47	T	C580 Diethylphthalate	1.252	1.195	4.5	0.010	
48	T	C590 Fluorene	1.184	1.094	7.6	0.900	25.0
49	T	C585 4-Chlorophenyl-phenyleth	0.579	0.562	3.0	0.400	25.0
50	T	C595 4-Nitroaniline	0.281	0.208	25.8	0.010	
57	I	CI60 Phenanthrene-d10	1.000	1.000	0.0		
51	T	C610 4,6-Dinitro-2-methylphen	0.177	0.146	17.9	0.010	
52	T	C615 N-Nitrosodiphenylamine	0.600	0.690	15.1	0.010	
53	S	CS55 2,4,6-Tribromophenol	0.137	0.168	23.3	0.010	
54	T	C625 4-Bromophenyl-phenylethe	0.283	0.347	22.4	0.100	25.0
55	T	C630 Hexachlorobenzene	0.304	0.381	25.6*	0.100	25.0
56	T	C635 Pentachlorophenol	0.170	0.159	6.7	0.050	25.0
58	T	C640 Phenanthrene	1.088	1.209	11.1	0.700	25.0
59	T	C645 Anthracene	1.080	1.207	11.8	0.700	25.0
60	T	C648 Carbazole	0.895	0.889	0.7	0.010	
61	T	C650 Di-n-butylphthalate	1.384	1.466	5.9	0.010	
62	T	C655 Fluoranthene	0.888	0.893	0.6	0.600	25.0
67	I	CI70 Chrysene-d12	1.000	1.000	0.0		
63	T	C715 Pyrene	2.067	2.007	2.9	0.600	25.0
64	S	CS30 Terphenyl-d14	1.294	1.284	0.8	0.500	25.0
65	T	C720 Butylbenzylphthalate	0.937	0.883	5.7	0.010	
3	T	C730 Benzo(a)anthracene	1.280	1.182	7.7	0.800	25.0
68	T	C725 3,3'-Dichlorobenzidine	0.310	0.240	22.7	0.010	
69	T	C740 Chrysene	1.120	1.201	7.3	0.700	25.0
70	T	C745 bis(2-Ethylhexyl)phthala	1.012	1.058	4.6	0.010	
75	I	CI75 Perylene-d12	1.000	1.000	0.0		
71	T	C760 Di-n-octylphthalate	2.012	1.779	11.6	0.010	
72	T	C765 Benzo(b)fluoranthene	1.296	1.144	11.7	0.700	25.0
73	T	C770 Benzo(k)fluoranthene	1.182	1.175	0.6	0.700	25.0
74	T	C775 Benzo(a)pyrene	1.059	1.033	2.4	0.700	25.0
76	T	C780 Indeno(1,2,3-cd)pyrene	1.076	1.330	23.6	0.500	25.0
77	T	C785 Dibenz(a,h)anthracene	0.824	1.030	25.1*	0.400	25.0
78	T	C790 Benzo(g,h,i)perylene	0.845	1.122	32.7*	0.500	25.0

(*) = QC Criteria Failed (**) = > 40 % Dev., Reanalyze Standard

QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 11:47

000586

Data File: C:\CHEMPC\DATA\041096\77491.D
Name: SSTD050 4/11/96 S-96-090
Misc: HP6*AATSLA*SSTD050*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 13:50:28 1996
Quantitated using Multiple Level Calibration

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
Internal Standards							
8)	CI30 1,4-Dichlorobenzene-d	5.60	152	105718	40.00	ug/mL	-0.01
25)	CI40 Naphthalene-d8	7.14	136	343794	40.00	ug/mL	-0.01
40)	CI50 Acenaphthene-d10	9.28	164	168887	40.00	ug/mL	-0.01
57)	CI60 Phenanthrene-d10	11.39	188	164579	40.00	ug/mL	-0.01
67)	CI70 Chrysene-d12	15.54	240	72966	40.00	ug/mL	-0.03
75)	CI75 Perylene-d12	17.66	264	64438	40.00	ug/mL	-0.03
System Monitoring Compounds							%Recovery
1)	CS50 2-Fluorophenol	1.69	112	122722	45.97	ug/mL	30.65%
2)	CS45 Phenol-d5	5.33	99	198404	54.43	ug/mL	36.29%
3)	CS70 2-Chlorophenol-d4	5.32	132	168031	48.97	ug/mL	32.65%
10)	CS75 1,2-Dichlorobenzene-d	5.87	152	117365	50.27	ug/mL	50.27%
17)	CS20 Nitrobenzene-d5	6.39	82	203089	49.26	ug/mL	49.26%
34)	CS25 2-Fluorobiphenyl	8.44	172	297603	50.93	ug/mL	50.93%
53)	CS55 2,4,6-Tribromophenol	10.41	330	34651	61.66	ug/mL	41.11%
64)	CS30 Terphenyl-d14	13.93	244	117092	49.59	ug/mL	49.59%
Target Compounds							ISTD#
4)	C315 Phenol	5.35	94	211273	54.66	ug/mL	001#
5)	C325 bis(2-Chloroethyl)eth	5.34	93	188047	55.84	ug/mL	001#
6)	C330 2-Chlorophenol	5.34	128	183705	51.39	ug/mL	001
7)	C335 1,3-Dichlorobenzene	5.53	146	191781	49.94	ug/mL	001
9)	C340 1,4-Dichlorobenzene	5.62	146	197616	50.82	ug/mL	001
11)	C350 1,2-Dichlorobenzene	5.89	146	185111	51.26	ug/mL	001
12)	C360 2,2'-oxybis(1-Chlorop	6.11	45	244464	53.67	ug/mL	001
13)	C355 2-Methylphenol	6.16	108	147670	50.27	ug/mL	001
14)	C375 Hexachloroethane	6.25	117	92021	55.40	ug/mL	001
15)	C370 N-Nitroso-di-n-propyl	6.30	70	134919	52.31	ug/mL	001
16)	C365 4-Methylphenol	6.34	108	154809	50.50	ug/mL	001
18)	C410 Nitrobenzene	6.41	77	197595	51.03	ug/mL	002
19)	C415 Isophorone	6.68	82	341262	45.92	ug/mL	002
20)	C420 2-Nitrophenol	6.77	139	94748	44.79	ug/mL	002
21)	C425 2,4-Dimethylphenol	6.89	107	153478	45.61	ug/mL	002
22)	C435 bis(2-Chloroethoxy)me	6.97	93	220667	48.05	ug/mL	002
23)	C440 2,4-Dichlorophenol	7.05	162	127496	42.42	ug/mL	002
24)	C445 1,2,4-Trichlorobenzen	7.11	180	147624	45.95	ug/mL	002
26)	C450 Naphthalene	7.16	128	435204	44.85	ug/mL	002
27)	C455 4-Chloroaniline	7.29	127	169454	40.35	ug/mL	002
28)	C460 Hexachlorobutadiene	7.37	225	98131	52.14	ug/mL	002
29)	C465 4-Chloro-3-methylphen	7.88	107	133229	44.38	ug/mL	002
30)	C470 2-Methylnaphthalene	7.95	142	283285	45.01	ug/mL	002
31)	C510 Hexachlorocyclopentad	8.22	237	96297	46.84	ug/mL	003
32)	C515 2,4,6-Trichlorophenol	8.35	196	87438	46.67	ug/mL	003
33)	C520 2,4,5-Trichlorophenol	8.41	196	87162	44.74	ug/mL	003

(#) = qualifier out of range

QUANT REPORT

000587

Operator ID: AK Date Acquired: 10 Apr 96 11:47
Data File: C:\CHEMPC\DATA\041096\77491.D
Name: SSTD050 4/11 4/4/96 S-96-090
Misc: HP6*AATSLA*SSTD050*2uL*MS517
Method: OLMO3_S.M Inst: HP6
Title: AATS-BR SEMIVOLATILE CALIBRATION FILE
Last Calibration: Fri Apr 05 13:50:28 1996
Quantitated using Multiple Level Calibration

	Compound	R.T.	Qion	Area	Conc	Unit	Dev(Min)
35)	C525 2-Chloronaphthalene	8.54	162	266819	49.16	ug/mL	003
36)	C530 2-Nitroaniline	8.75	65	92917	49.66	ug/mL	003#
37)	C535 Dimethylphthalate	9.03	163	267593	46.95	ug/mL	003
38)	C540 Acenaphthylene	9.07	152	383427	48.16	ug/mL	003
39)	C543 2,6-Dinitrotoluene	9.12	165	57582	46.14	ug/mL	003
41)	C545 3-Nitroaniline	9.31	138	50950	43.75	ug/mL	003
42)	C550 Acenaphthene	9.33	153	230486	48.76	ug/mL	003
43)	C555 2,4-Dinitrophenol	9.47	184	17729	22.64	ug/mL	003#
44)	C565 Dibenzofuran	9.54	168	318707	47.84	ug/mL	003
45)	C560 4-Nitrophenol	9.61	109	24184	35.46	ug/mL	003#
46)	C570 2,4-Dinitrotoluene	9.66	165	71644	45.54	ug/mL	003#
47)	C580 Diethylphthalate	10.01	149	252236	47.73	ug/mL	003
48)	C590 Fluorene	10.02	166	230910	46.21	ug/mL	003
49)	C585 4-Chlorophenyl-phenyl	10.04	204	118578	48.48	ug/mL	003
50)	C595 4-Nitroaniline	10.17	138	44003	37.12	ug/mL	003
51)	C615 N-Nitrosodiphenylamin	10.25	169	141950	57.53	ug/mL	004
52)	C610 4,6-Dinitro-2-methylp	10.24	198	29993	41.07	ug/mL	004#
54)	C625 4-Bromophenyl-phenyle	10.75	248	71324	61.18	ug/mL	004
55)	C630 Hexachlorobenzene	10.95	284	78414	62.79	ug/mL	004
56)	C635 Pentachlorophenol	11.25	266	32686	46.63	ug/mL	004
58)	C640 Phenanthrene	11.42	178	248712	55.56	ug/mL	004
59)	C645 Anthracene	11.49	178	248370	55.88	ug/mL	004
60)	C648 Carbazole	11.79	167	182803	49.64	ug/mL	004
61)	C650 Di-n-butylphthalate	12.46	149	301548	52.94	ug/mL	004
62)	C655 Fluoranthene	13.27	202	183608	50.28	ug/mL	004
63)	C715 Pyrene	13.61	202	183087	48.57	ug/mL	005
65)	C720 Butylbenzylphthalate	14.81	149	80559	47.15	ug/mL	005
66)	C730 Benzo(a)anthracene	15.52	228	107774	46.14	ug/mL	005
68)	C725 3,3'-Dichlorobenzidin	15.58	252	21859	38.67	ug/mL	005
69)	C740 Chrysene	15.58	228	109586	53.66	ug/mL	005
70)	C745 bis(2-Ethylhexyl)phth	15.78	149	96517	52.28	ug/mL	005
71)	C760 Di-n-octylphthalate	16.70	149	143253	44.20	ug/mL	006
72)	C765 Benzo(b)fluoranthene	17.14	252	92177	44.14	ug/mL	006
73)	C770 Benzo(k)fluoranthene	17.17	252	94645	49.71	ug/mL	006
74)	C775 Benzo(a)pyrene	17.58	252	83205	48.78	ug/mL	006
76)	C780 Indeno(1,2,3-cd)pyren	18.99	276	107151	61.80	ug/mL	006
77)	C785 Dibenz(a,h)anthracene	19.01	278	82987	62.54	ug/mL	006
78)	C790 Benzo(g,h,i)perylene	19.30	276	90338	66.37	ug/mL	006

(#) = qualifier out of range

QUANT REPORT

Operator ID: AK Date Acquired: 10 Apr 96 11:47

Data File: C:\CHEMPC\DATA\041096\77491.D

Name: SSTD050 6U 7/1/96 S-96-090

Misc: HP6*AATSLA*SSTD050*2uL*MS517

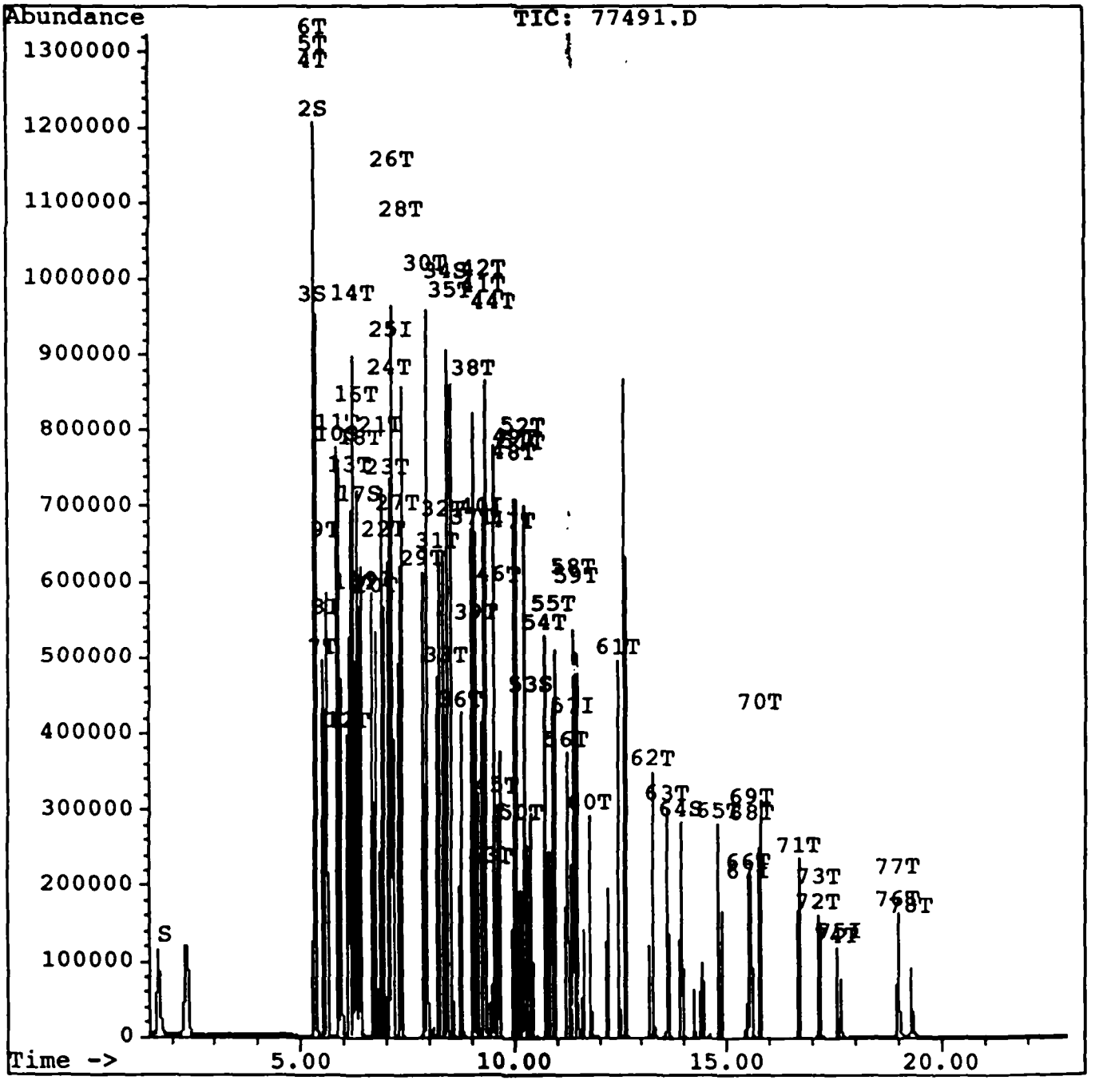
Method: OLM03_S.M Inst: HP6

Title: AATS-BR SEMIVOLATILE CALIBRATION FILE

Last Calibration: Fri Apr 05 13:50:28 1996

Quantitated using Multiple Level Calibration

000588



BOOKMARK

V. PESTICIDE/PCBs DATA

2F

SOIL PESTICIDE SURROGATE RECOVERY

000589

Lab Name: AATSLA Contract: 68-D5-0023

Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

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

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK2	82	83	100	102			0
02	FER34	79	83	105	102			0
03	FER35	98	92	107	110			0
04	FER39	72	74	93	92			0
05	FER40	71	67	66	38			0
06	FER41	81	80	129	101			0
07	FER90	75	80	101	108			0
08	FER91	84	86	103	106			0
09	FER92	78	79	104	98			0
10	FER93	95	89	118	110			0
11	FER94	76	101	102	105			0
12	FER95	84	96	100	102			0
13	FER97	90	88	119	115			0
14	FER98	78	85	94	98			0
15	FER99	91	96	115	122			0
16	FES00	83	91	106	110			0
17	FER99MS	83	105	104	114			0
18	FER99MSD	80	91	100	107			0

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix Spike - EPA Sample No.: FER99

000590

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	19.100	0	16.8	88	46-127
Heptachlor	19.100	0	18.7	98	35-130
Aldrin	19.100	0	18.5	97	34-132
Dieldrin	38.300	0	41.4	108	31-134
Endrin	38.300	0	43.5	114	42-139
4,4'-DDT	38.300	0	48.1	126	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	19.100	15.9	83	6	50	46-127
Heptachlor	19.100	17.8	93	5	31	35-130
Aldrin	19.100	17.0	89	9	43	34-132
Dieldrin	38.300	39.3	103	5	38	31-134
Endrin	38.300	42.8	112	2	45	42-139
4,4'-DDT	38.300	44.0	115	9	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

4C

PESTICIDE METHOD BLANK SUMMARY 000591

EPA SAMPLE NO.

PBLK2

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Lab Sample ID: 033096H Lab File ID:

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

Sulfur Cleanup: (Y/N) N Date Extracted: 03/30/96

Date Analyzed (1): 04/15/96 Date Analyzed (2): 04/24/96

Time Analyzed (1): 1614 Time Analyzed (2): 1118

Instrument ID (1): HP3F Instrument ID (2): HP2F

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FER34	15427_01	04/16/96	04/24/96
02	FER35	15427_02	04/16/96	04/24/96
03	FER39	15427_03	04/16/96	04/24/96
04	FER40	15427_04	04/16/96	04/25/96
05	FER41	15427_05	04/16/96	04/24/96
06	FER90	15427_06	04/16/96	04/25/96
07	FER91	15427_07	04/16/96	04/24/96
08	FER92	15427_08	04/16/96	04/25/96
09	FER93	15427_09	04/16/96	04/25/96
10	FER94	15411_02	04/15/96	04/24/96
11	FER95	15411_03	04/16/96	04/24/96
12	FER97	15411_04	04/16/96	04/24/96
13	FER98	15411_05	04/16/96	04/24/96
14	FER99	15411_06	04/16/96	04/24/96
15	FES00	15411_01	04/15/96	04/24/96
16	FER99MS	15411_07MS	04/16/96	04/24/96
17	FER99MSD	15411_08MSD	04/16/96	04/24/96

COMMENTS:

External Standard Report

000593

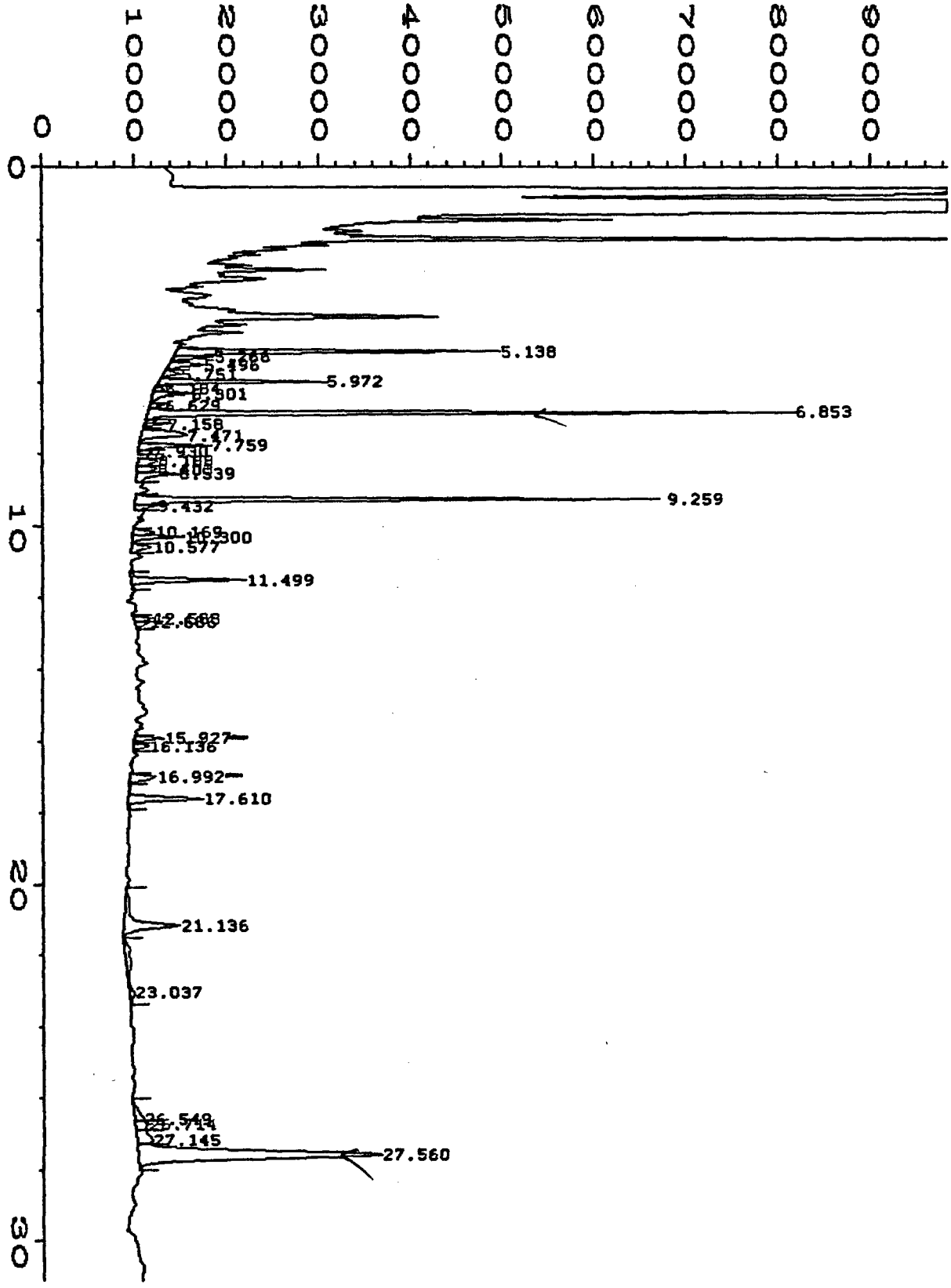
Data File Name : C:\HPCHEM\3\DATA\3041596\032F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.01
Run Time Bar Code:
Acquired on : 16 Apr 96 08:13 AM
Report Created on: 16 Apr 96 08:47 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER34 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 32
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\032F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.853	328938	VV	0.072	1	10.508	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.927	16546	VV	0.081	1	1.084	4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.992	26795	VV	0.126	1	1.678	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.560	412122	VV	0.245	1	14.026	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\032F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 32
Sample Name	: 15427.01	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 08:13 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 08:48 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 333	ISTD Amount	:
Sample Info	: FER34 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000595

Injection C: <PESTEPA> 3 0424BSAM,1,1

Acquired on 24-Apr-96 at 20:38:22
Modified on 24-Apr-80 at 21:11:32
Reported on 24-Apr-96 at 21:11:53

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 21:11:28
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15427.01
Sample ID.....: FER34
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 26

Ø

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
4	4.484	686292	11.1472	TCX
16	7.084	24608	0.3346	gamma-BHC NC
17	7.564	33010	0.4742	HEPTACHLOR NC
30	17.391	28031	0.6579	4,4'-DDD C
33	24.133	18147	0.4233	ENDO. SULFATE NC
37	29.649	609780	13.6095	DCB
Total		1399869	26.6468	
Residual		2619927	45.4029	

VG Data Systems - Minichrom v1.66

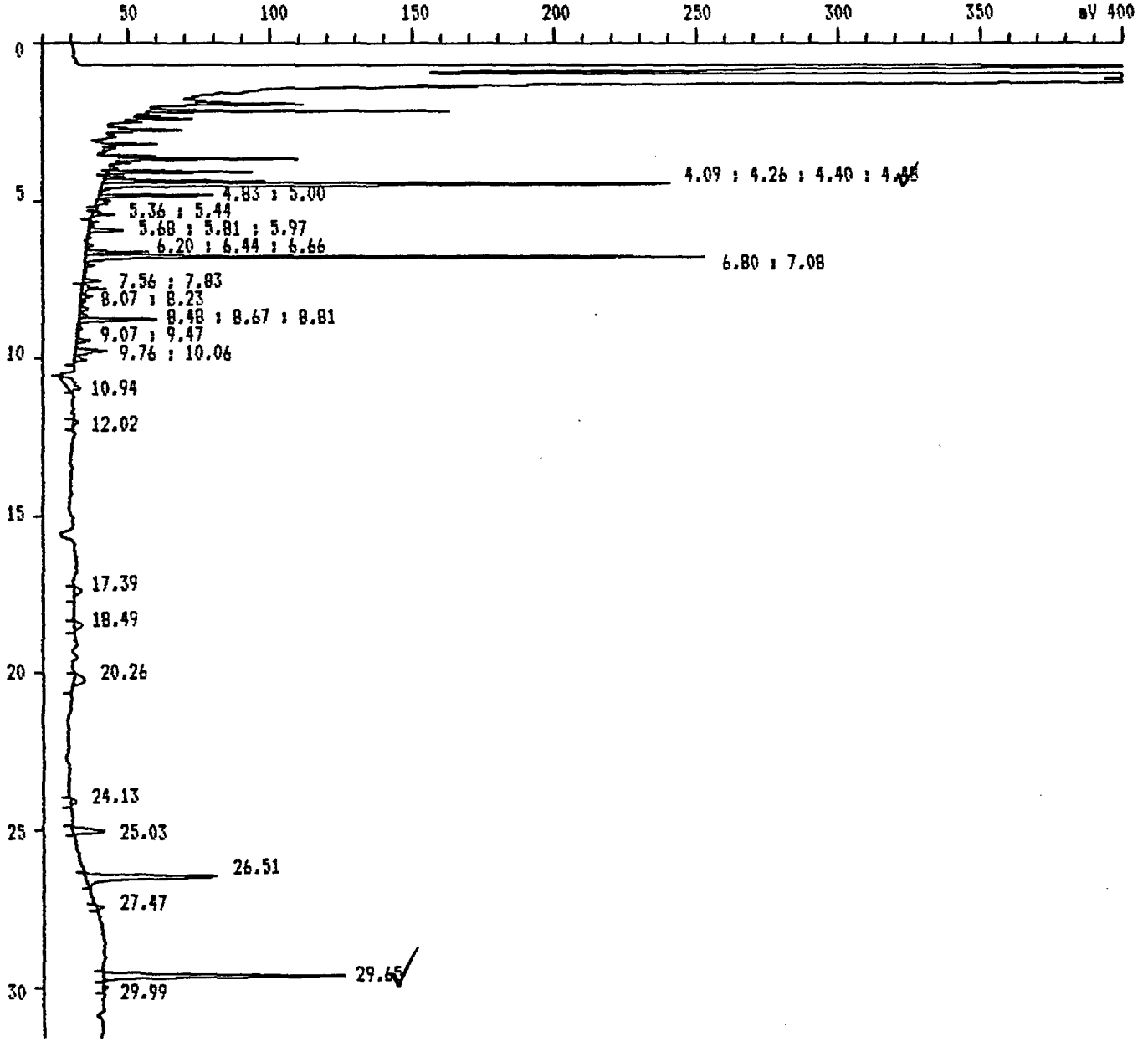
LONG PLOT

000596

Injection C: <PESTEPA> 3 0424BSAM,1,1

Sample name.....: 15427.01
Sample ID.....: FER34
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 20:38:22
Reported on 29-Apr-96 at 08:47:09



External Standard Report

000598

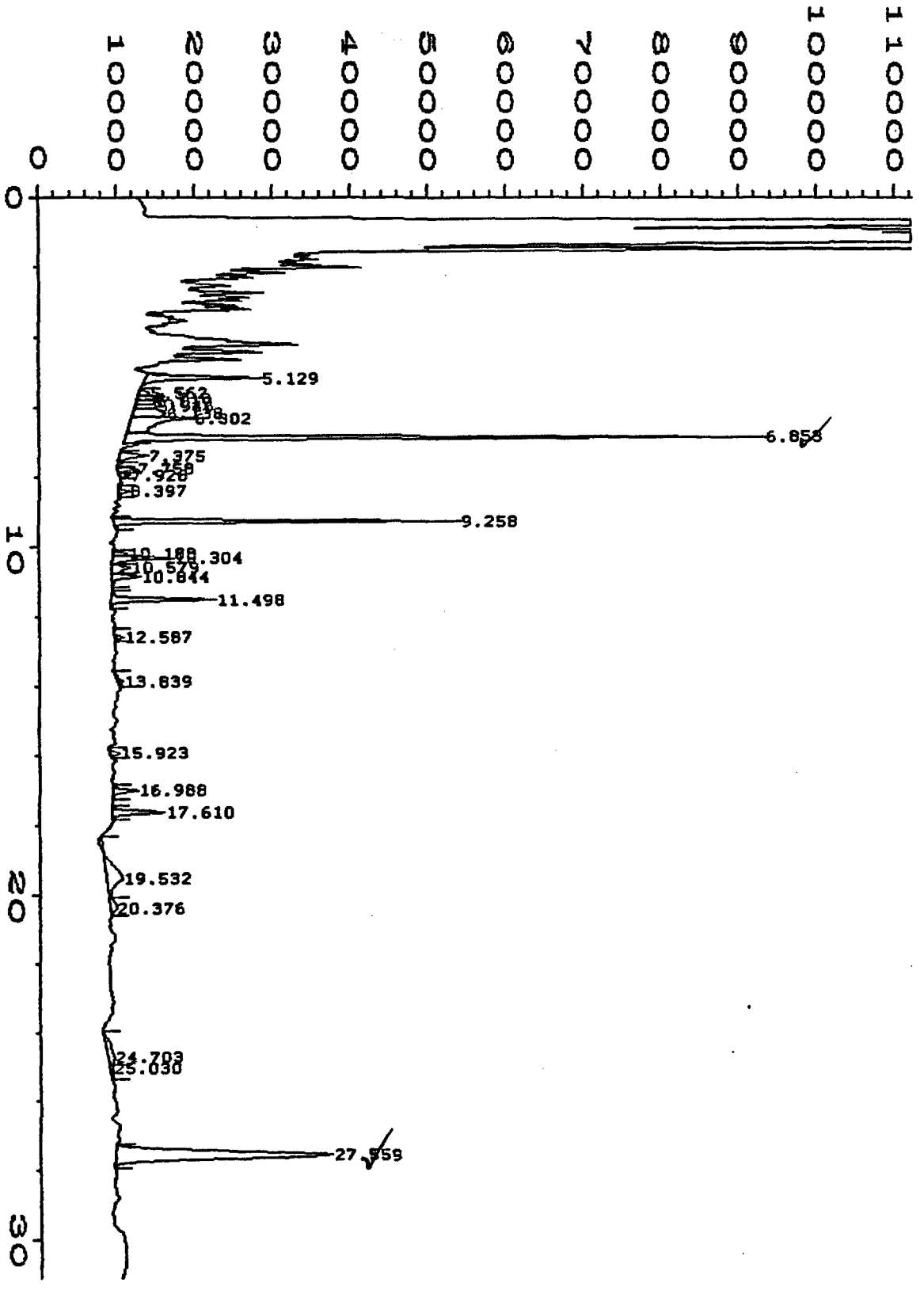
Data File Name : C:\HPCHEM\3\DATA\3041596\033F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.02
Run Time Bar Code:
Acquired on : 16 Apr 96 08:48 AM
Report Created on: 16 Apr 96 09:23 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER35 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\033F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.853	405821	VV	0.075	1	12.964	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.844	28504	VB	0.110	1	0.880	HEPTACHLOR C 1.9 <
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.923	8269	PV	0.095	1	0.542	4,4'-DDD C 0.73 <
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.988	21474	BB	0.099	1	1.344	ENDRIN ALDEHYDE NC
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.559	417293	VV	0.234	1	14.202	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\033F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 33
Sample Name	: 15427.02	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 08:48 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 09:23 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 333	ISTD Amount	:
Sample Info	: FER35 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

000600

INJECTION REPORT

Injection C: <PESTEPA> 3 0424BSAM,2,1

Acquired on 24-Apr-96 at 21:16:33
Modified on 24-Apr-80 at 21:49:42
Reported on 24-Apr-96 at 21:50:04

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 21:49:40
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15427.02
Sample ID.....: FER35
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 27

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
3	4.489	759867	12.3422	TCX
14	7.569	41906	0.6020	HEPTACHLOR
24	17.396	77263	1.8134	4,4'-DDD
30	29.653	658754	14.7025	DCB
Total		1537788	29.4602	
Residual		4886991	95.3060	

VG Data Systems - Minichrom v1.66

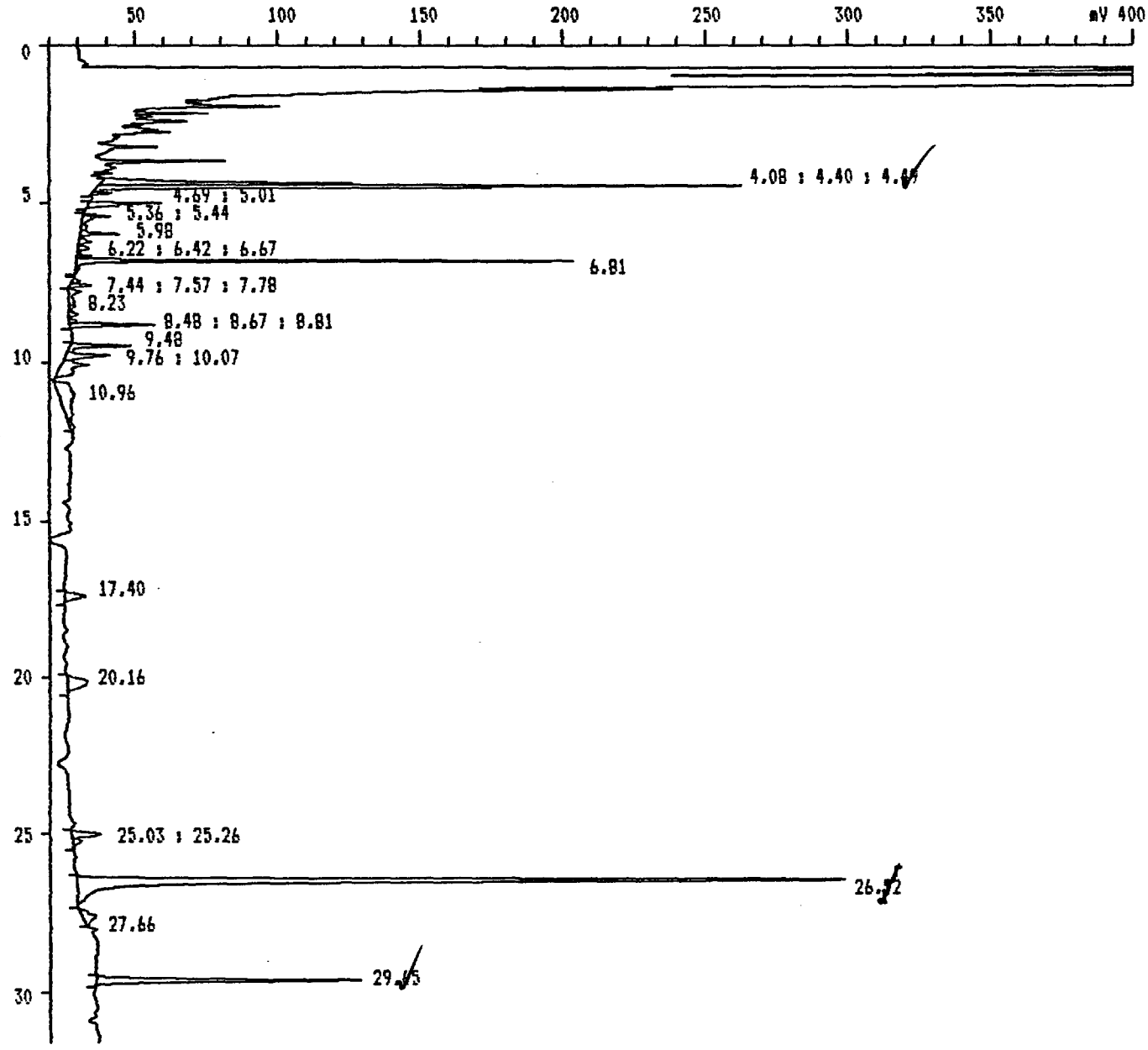
LONG PLOT

000601

Injection C: <PESTEPA> 3 0424BSAM,2,1

Sample name.....: 15427.02
Sample ID.....: FER35
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 21:16:33
Reported on 29-Apr-96 at 08:49:03



External Standard Report

000603

Data File Name : C:\HPCHEM\3\DATA\3041596\034F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.03
Run Time Bar Code:
Acquired on : 16 Apr 96 09:23 AM
Report Created on: 16 Apr 96 09:58 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER39 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

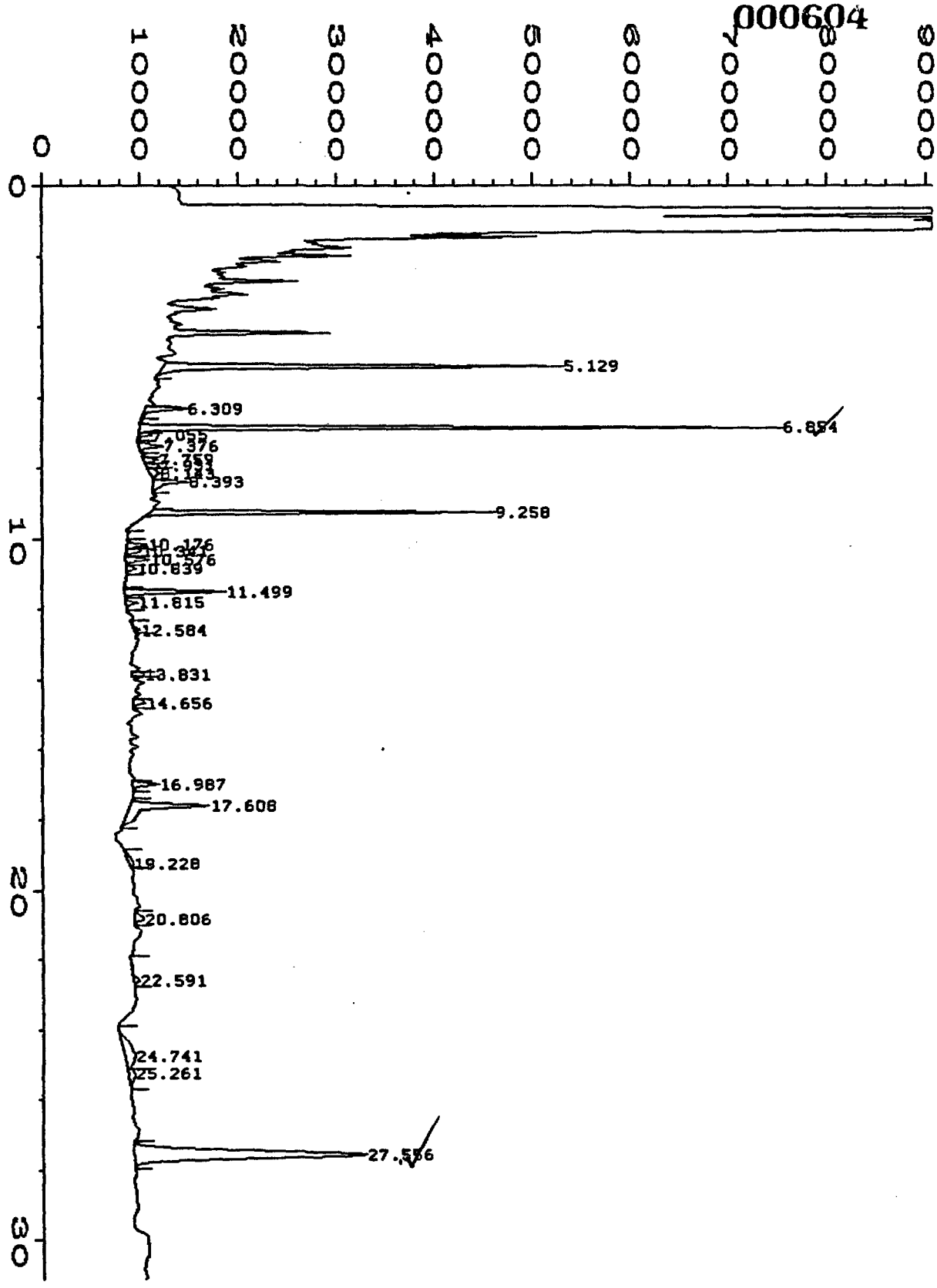
Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\034F0101.D

Ret Time	Area	Type	Width	Ref#	ug/kg	Name
6.854	298151	PV	0.071	1	9.525	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.839	6924	VV	0.095	1	0.214	HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.656	11175	VV	0.120	1	0.475	4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.987	17531	VB	0.097	1	1.098	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.556	362768	VV	0.239	1	12.346	DCB

Not all calibrated peaks were found

000604



Data File Name	: C:\HPCHEM\3\DATA\3041596\034F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 34
Sample Name	: 15427.03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 09:23 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 09:58 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 333	ISTD Amount	:
Sample Info	: FER39 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

Injection C: <PESTEPA> 3 0424BSAM,3,1

000605

Acquired on 24-Apr-96 at 21:54:46
Modified on 24-Apr-80 at 22:27:44
Reported on 24-Apr-96 at 22:28:06

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 22:27:42
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15427.03
Sample ID.....: FER39
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 28

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
4	4.493	613963	9.9724	TCX
15	7.573	34844	0.5006	HEPTACHLOR C
22	11.924	32830	0.5093	a. CHLORDANE NC
23	12.364	27087	0.5315	4,4'-DDE C
25	17.404	15515	0.3642	4,4'-DDD NC
30	29.658	549034	12.2537	DCB
Total		1273273	24.1316	
Residual		1815689	31.8418	

Ø

VG Data Systems - Minichrom v1.66

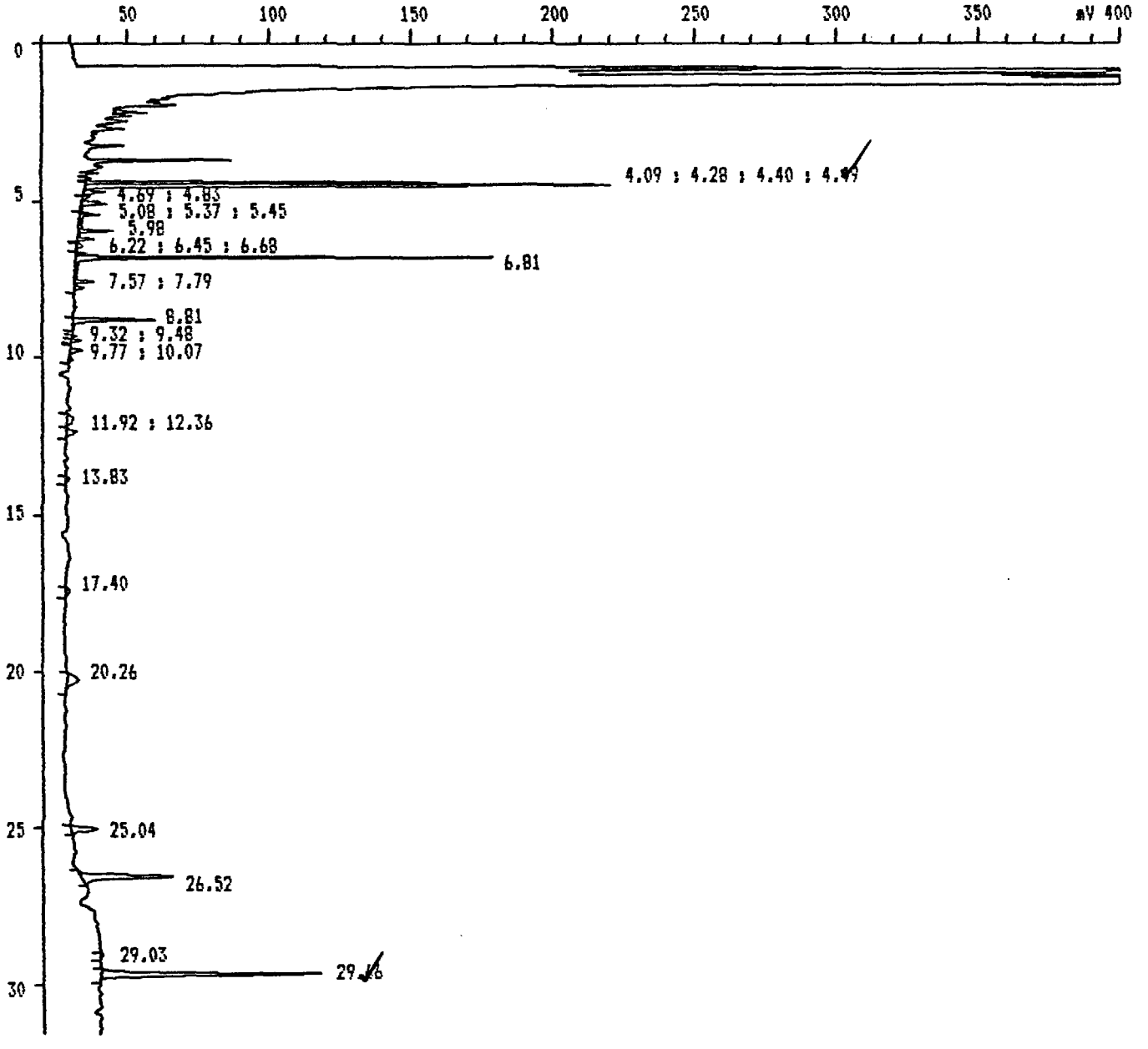
LONG PLOT

000606

Injection C: <PESTEPA> 3 0424BSAM,3,1

Sample name.....: 15427.03
Sample ID.....: FER39
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 21:54:46
Reported on 29-Apr-96 at 08:50:57



External Standard Report

000608

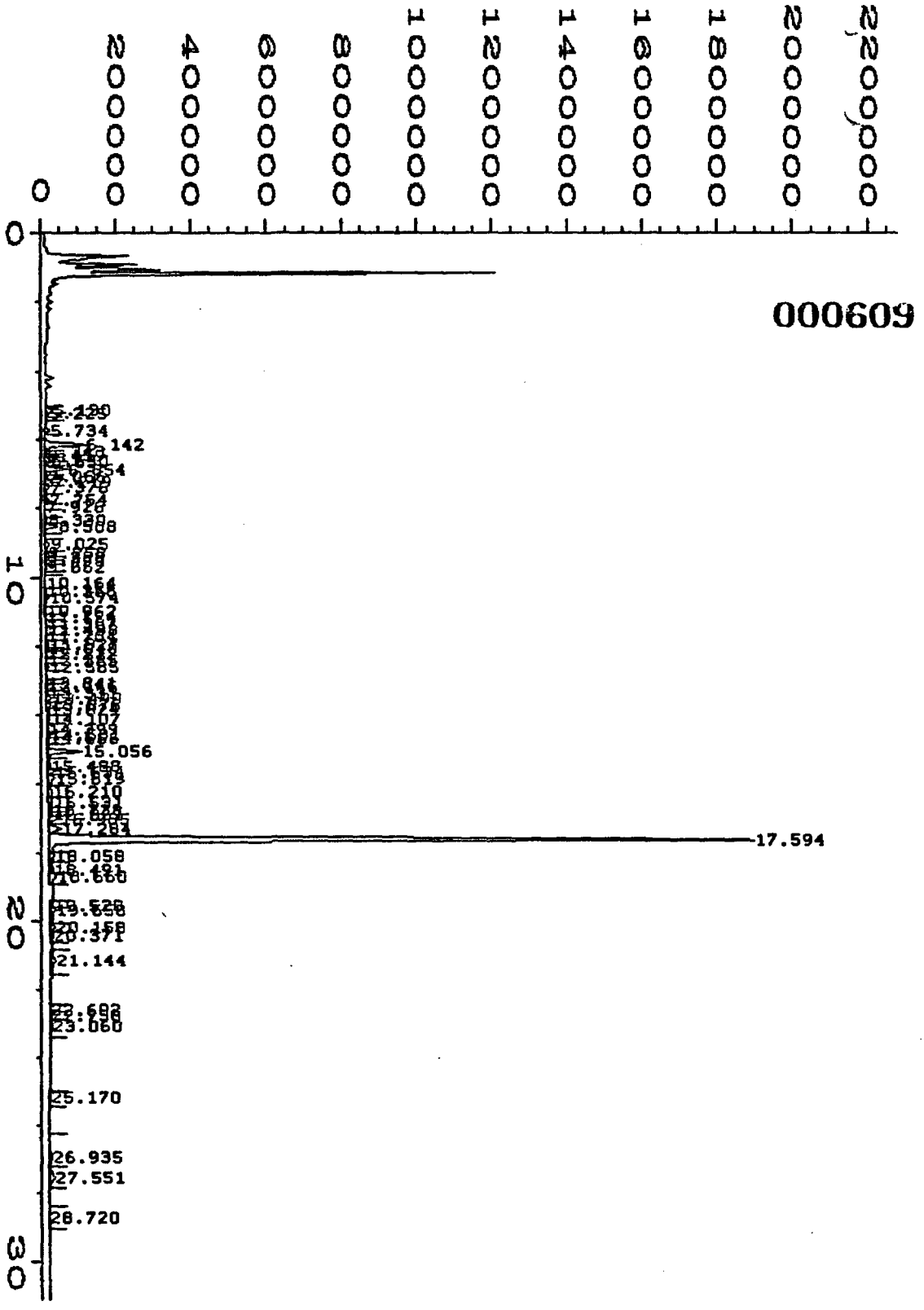
Data File Name : C:\HPCHEM\3\DATA\3041596\040F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.04
Run Time Bar Code:
Acquired on : 16 Apr 96 12:56 PM
Report Created on: 16 Apr 96 01:31 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER40 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 40
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\040F0101.D

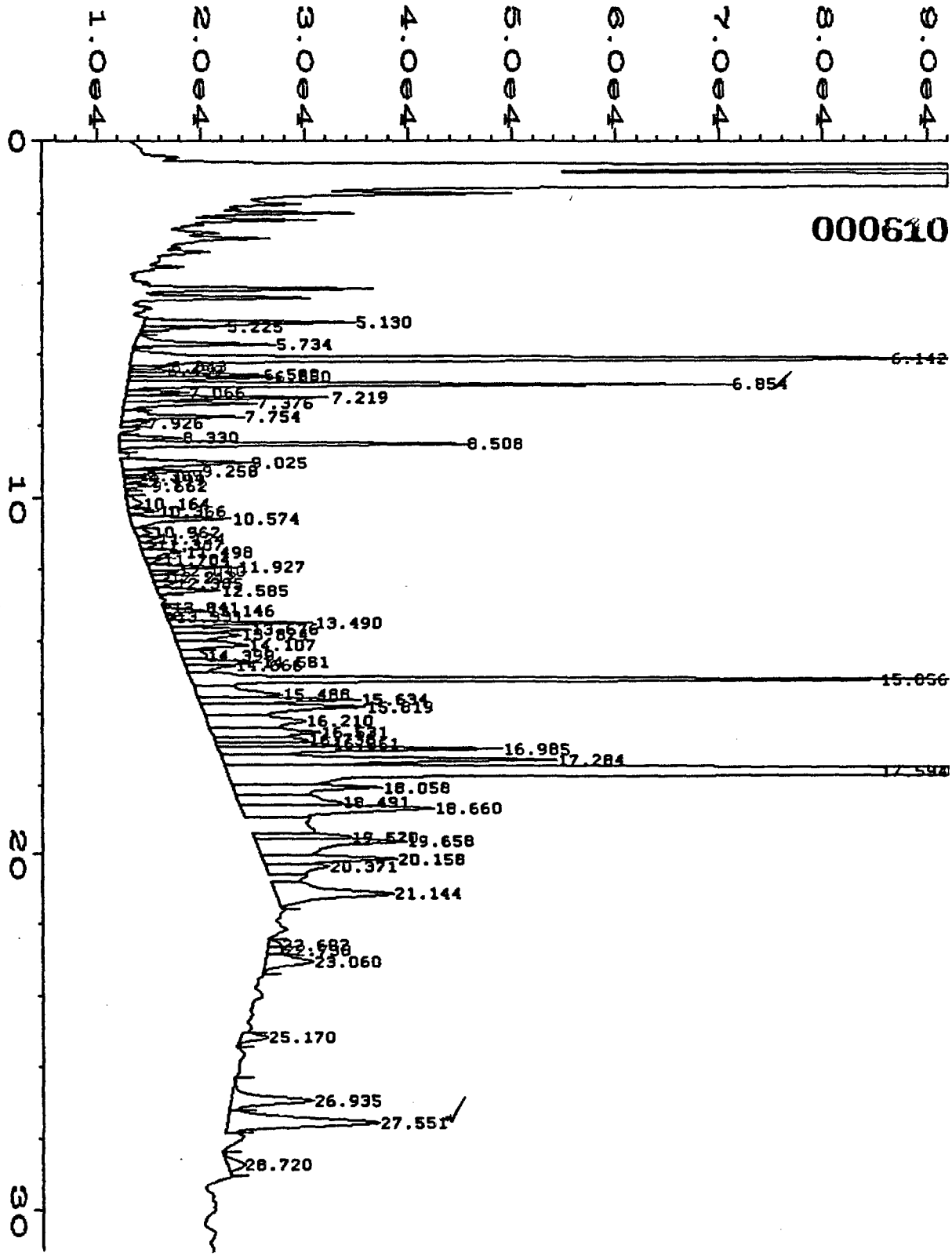
Ret Time	Area	Type	Width	Ref#	ug/kg	Name
6.854	294642	VV	0.076	1	9.413	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.962	13992	VV	0.124	1	0.449	delta-BHC
11.760	* not found *			1		ALDRIN
13.146	20122	VV	0.077	1	0.679	HEPT. EPOXIDE
13.676	50299	VV	0.098	1	1.626	g. CHLORDANE
14.107	74756	VV	0.149	1	2.433	a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.581	49422	VV	0.095	1	2.101	4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.819	185445	VV	0.163	1	10.334	ENDRIN
15.993	* not found *			1		4,4'-DDD
16.210	158841	VV	0.233	1	7.213	ENDOSULFAN II
16.861	62165	VV	0.080	1	4.111	4,4'-DDT
16.985	212622	VV	0.113	1	13.312	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.158	135576	VV	0.151	1	6.246	ENDRIN KETONE
27.551	255763	VV	0.266	1	8.704	DCB

Not all calibrated peaks were found



Data File Name : C:\HPCHEM\3\DATA\3041596\040F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.04
Run Time Bar Code:
Acquired on : 16 Apr 96 12:56 PM
Report Created on: 16 Apr 96 01:32 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER40 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 40
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :



Data File Name : C:\HPCHEM\3\DATA\3041596\040F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.04 FERNO
Run Time Bar Code:
Acquired on : 16 Apr 96 12:56 PM
Report Created on: 16 Apr 96 02:11 PM
Last Recalib on : 16 Apr 96 09:51 AM
Multiplier : 1

RTX-35 0.53 mm 30 M 2 µL

Page Number : 1
Vial Number : 40
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

VG Data Systems - Minichrom v1.66

000611

INJECTION REPORT

Injection C: <PESTEPA> 3 0424BSAM,19,1

Acquired on 25-Apr-96 at 08:06:14
Modified on 25-Apr-80 at 08:39:38
Reported on 25-Apr-96 at 08:40:00

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 08:39:34
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15427.04
Sample ID.....: FER40
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 44

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
4	4.493	550943	8.9488	TCX
19	7.587	66781	0.9594	HEPTACHLOR NC
32	11.649	60673	0.9390	g. CHLORDANE C TCAQ 1.25
33	11.924	66358	1.0295	a. CHLORDANE C 1.31 T
35	12.391	77419	1.5190	4,4'-DDE C 2.02
37	13.151	18958	0.3123	DIELDRIN NC
39	14.360	152254	3.0519	ENDRIN C 41 <
43	17.413	139870	3.2829	4,4'-DDD NC
51	24.707	211325	9.6190	METHOXYCHLOR NC
63	29.676	224843	5.0182	DCB
Total		1569423	34.6799	
Residual		10041738	263.1641	

VG Data Systems - Minichrom v1.66

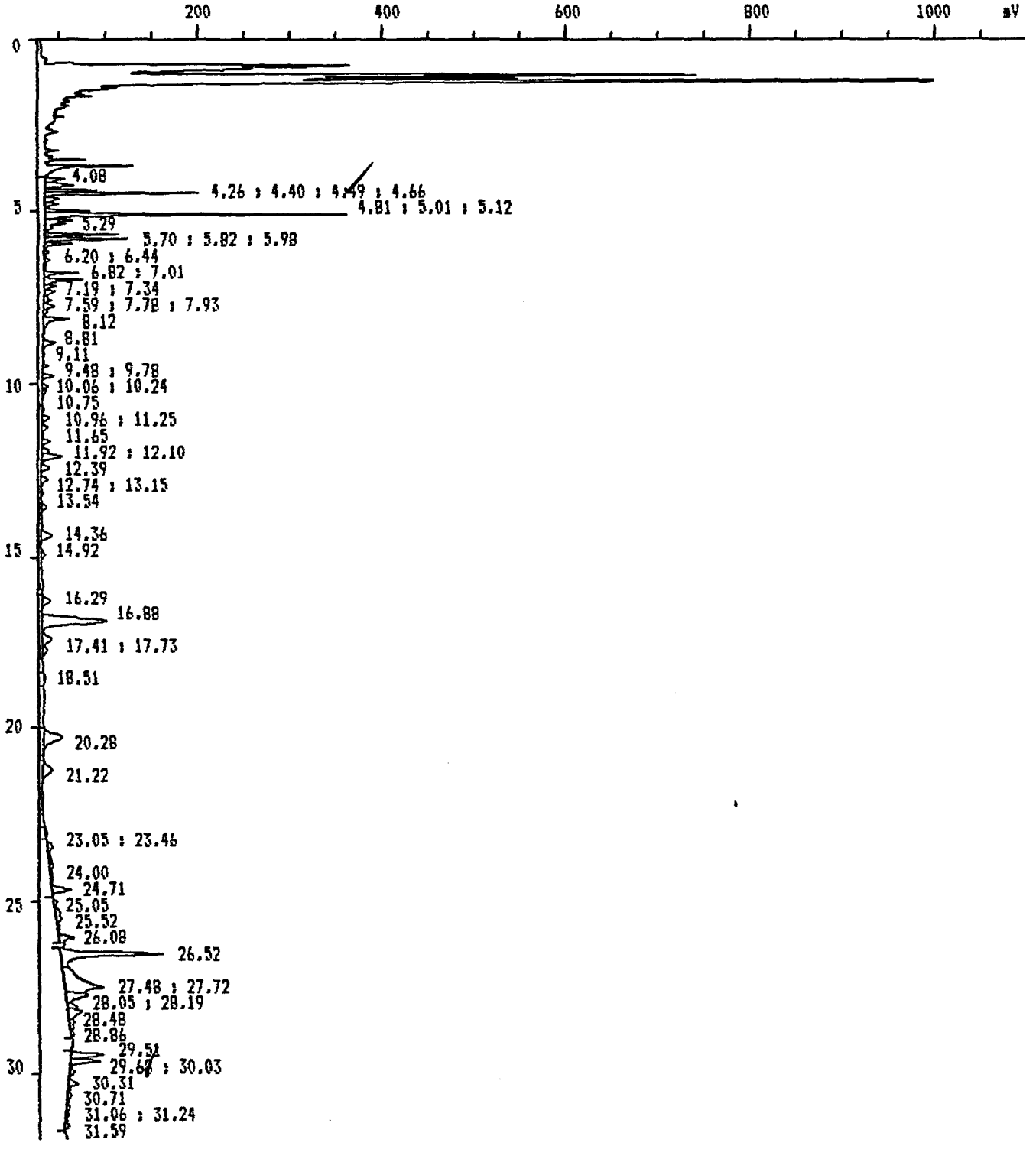
LONG PLOT

000612

Injection C: <PESTEPA> 3 0424BSAM,19,1

Sample name.....: 15427.04
Sample ID.....: PER 40
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 08:06:14
Reported on 25-Apr-96 at 08:41:05



VG Data Systems - Minichrom v1.66

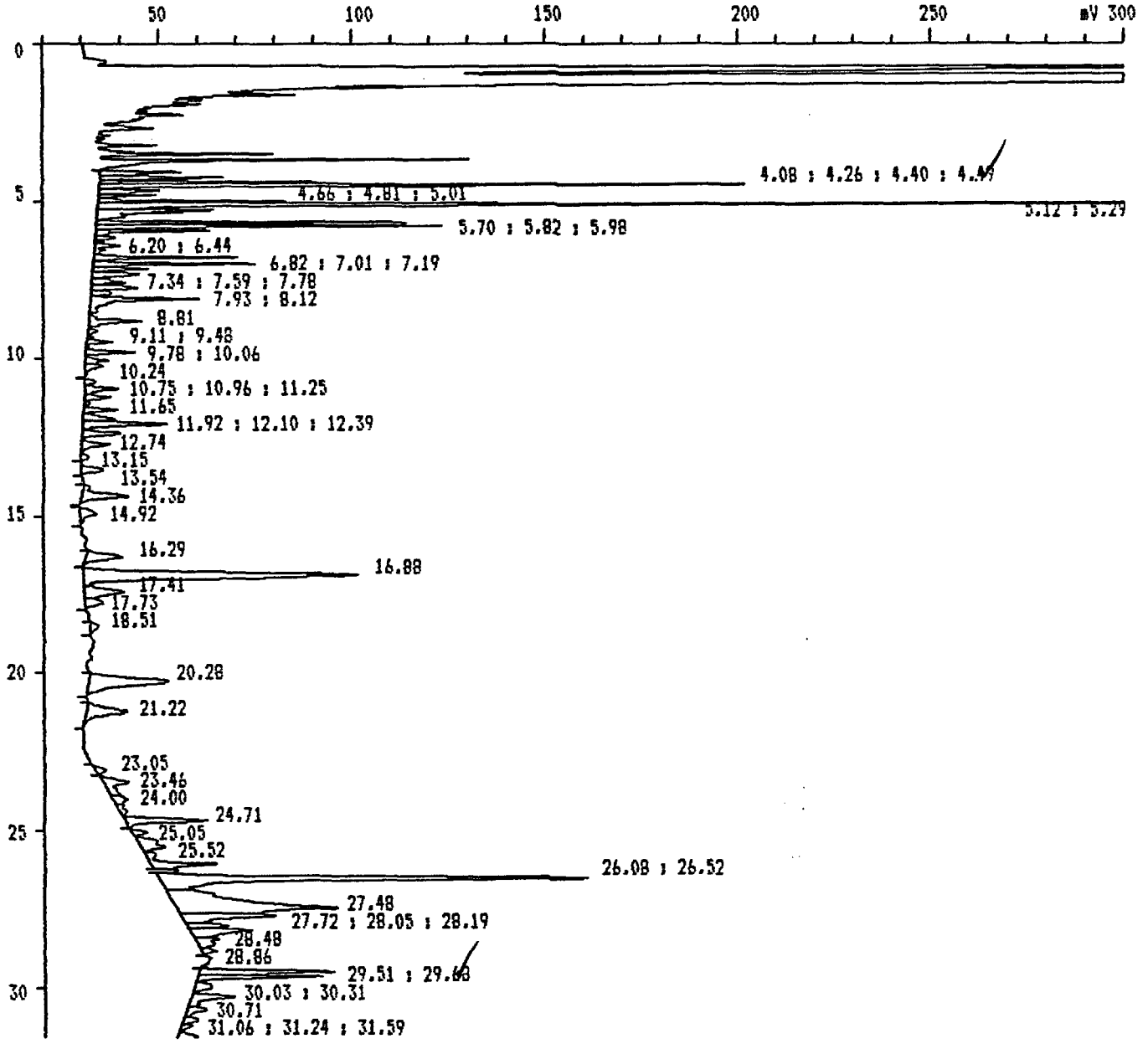
LONG PLOT

000613

Injection C: <PESTEPA> 3 0424BSAM,19,1

Sample name.....: 15427.04
Sample ID.....: FEPM°
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 08:06:14
Reported on 29-Apr-96 at 09:27:26



External Standard Report

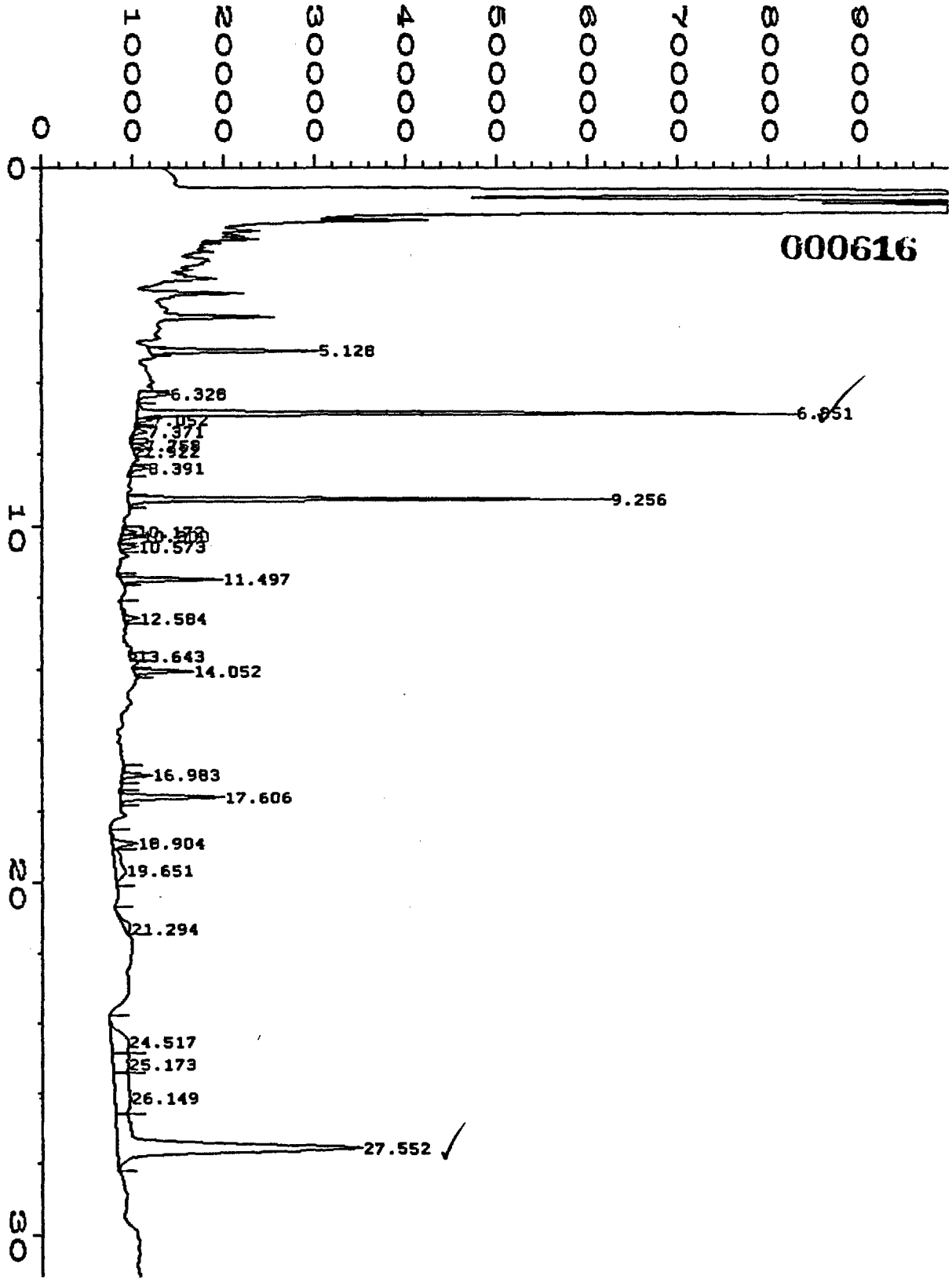
000615

Data File Name : C:\HPCHEM\3\DATA\3041596\035F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.05
Run Time Bar Code:
Acquired on : 16 Apr 96 09:59 AM
Report Created on: 16 Apr 96 10:34 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Page Number : 1
Vial Number : 35
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :
Sample Info : FER41 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Sig. 1 in C:\HPCHEM\3\DATA\3041596\035F0101.D

Ret Time	Area	Type	Width	Ref#	ug/kg	Name
6.851	336455	PV	0.072	1	10.748	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.643	5525	VV	0.099	1	0.179	g. CHLORDANE
14.052	32102	PV	0.076	1	1.045	a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.983	21025	BB	0.097	1	1.316	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.552	504160	VV	0.281	1	17.158	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\035F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 35
Sample Name	: 15427.05	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 09:59 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 10:34 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 333	ISTD Amount	:
Sample Info	: FER41 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

Injection C: <PESTEPA> 3 0424BSAM,4,1

000617

Acquired on 24-Apr-96 at 22:32:56
Modified on 24-Apr-80 at 23:06:08
Reported on 24-Apr-96 at 23:06:29

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 23:06:04
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15427.05
Sample ID.....: FER41
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 29

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
3	4.489	660460	10.7276	TCX
14	7.569	46477	0.6677	HEPTACHLOR
24	17.391	52706	1.2371	4,4'-DDD
32	29.653	600999	13.4135	DCB
Total		1360642	26.0459	
Residual		4380173	86.3026	

VG Data Systems - Minichrom v1.66

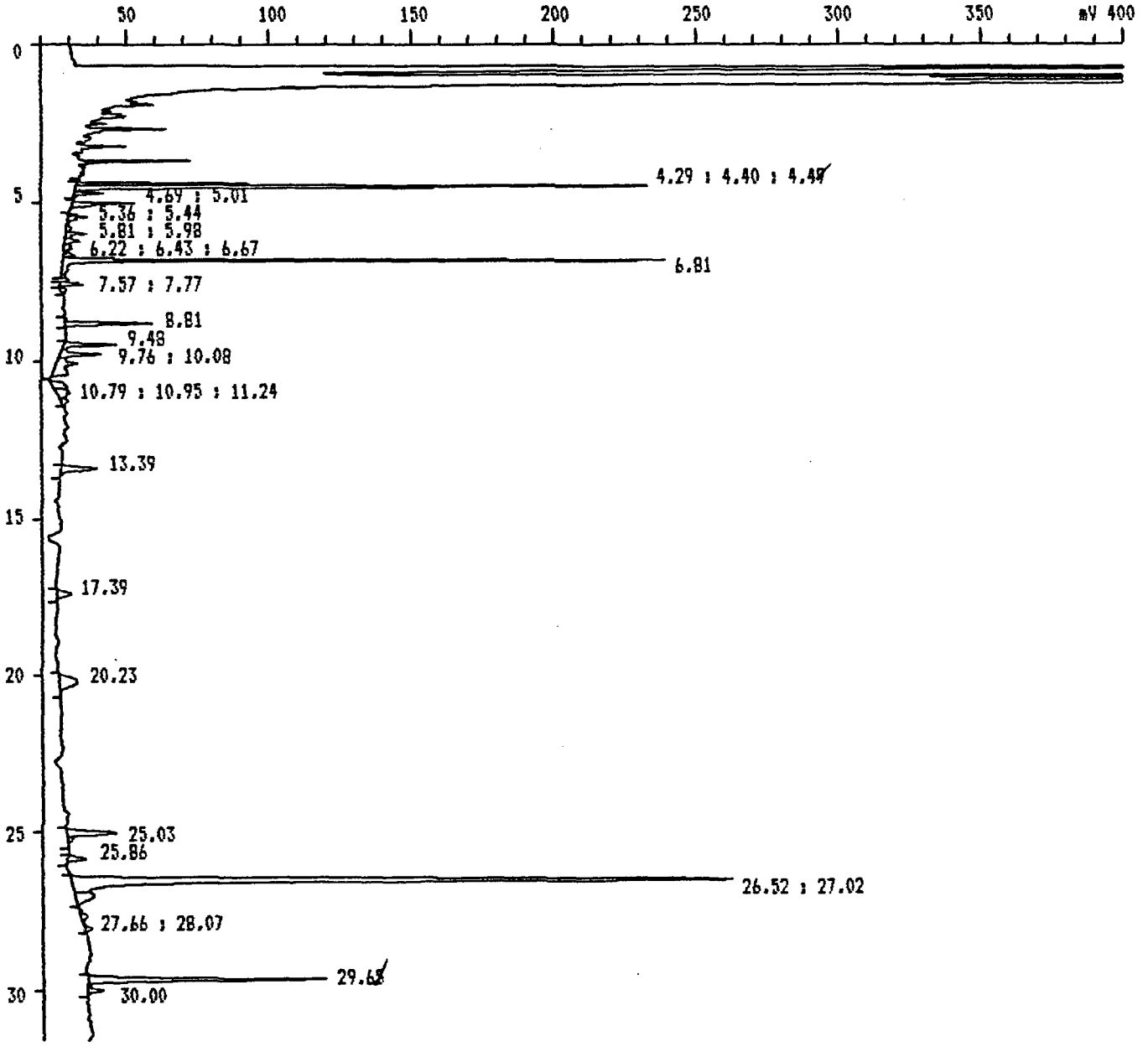
LONG PLOT

000618

Injection C: <PESTEPA> 3 0424BSAM,4,1

Sample name.....: 15427.05
Sample ID.....: FER41
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 22:32:56
Reported on 29-Apr-96 at 08:52:46



External Standard Report

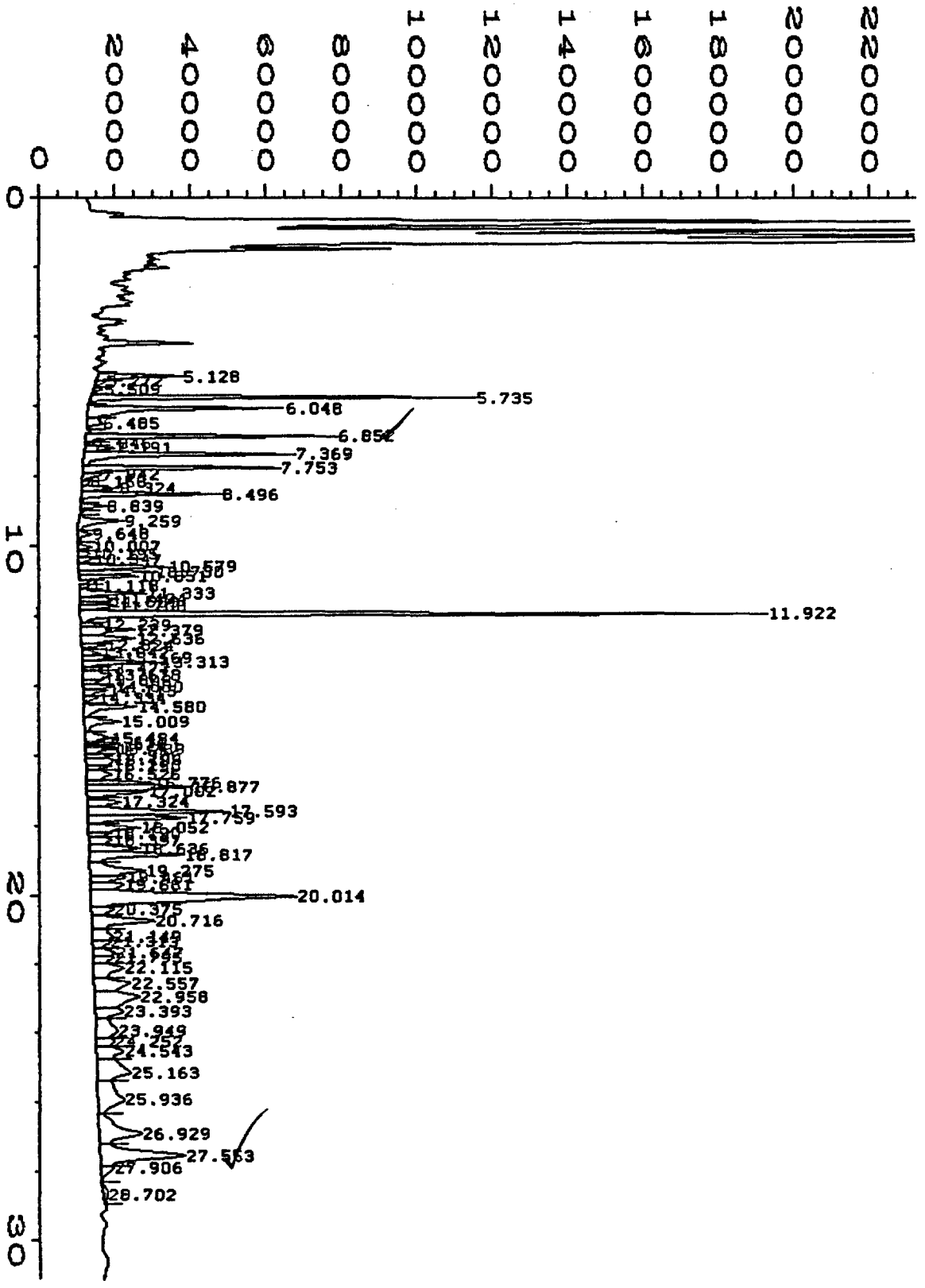
Data File Name : C:\HPCHEM\3\DATA\3041596\039F0101.D 000620
Operator : DLP
Instrument : HP3F
Sample Name : 15427.06
Run Time Bar Code:
Acquired on : 16 Apr 96 12:21 PM
Report Created on: 16 Apr 96 12:56 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER90 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 39
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\039F0101.D

Ret Time	Area	Type	Width	Ref#	ug/kg	Name
6.852	312396	VV	0.072	1	9.980	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.851	90029	VV	0.088	1	2.780	HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.169	54697	VV	0.077	1	1.846	HEPT. EPOXIDE
13.678	85884	VV	0.159	1	2.777	g. CHLORDANE
14.113	46872	VV	0.099	1	1.526	a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.580	116551	VV	0.123	1	4.955	4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.789	58128	VV	0.103	1	3.239	ENDRIN
15.986	40733	VV	0.085	1	2.669	4,4'-DDD
16.290	43274	VV	0.093	1	1.965	ENDOSULFAN II
16.776	98172	VV	0.084	1	6.492	4,4'-DDT
17.002	122462	VV	0.126	1	7.667	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.461	87909	VV	0.134	1	12.381	METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.553	394705	VV	0.263	1	13.433	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\039F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 39
Sample Name	: 15427.06	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 12:21 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 12:56 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 333	ISTD Amount	:
Sample Info	: FER90 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000622

Injection C: <PESTEPA> 3 0424BSAM,11,1

Acquired on 25-Apr-96 at 03:00:25
Modified on 25-Apr-80 at 03:33:48
Reported on 25-Apr-96 at 03:34:10

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 03:33:44
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15427.06
Sample ID.....: FER90
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 36

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
4	4.498	659996	10.7201	TCX
12	6.293	34854	0.4537	alpha-BHC NC
17	7.129	154434	2.0997	gamma-BHC NC
19	7.604	100545	1.4445	HEPTACHLOR C
23	8.844	476252	11.6393	beta-BHC NC
32	11.644	141390	2.1881	g. CHLORDANE C 3.2
34	12.418	155918	3.0593	4,4'-DDE C <
36	13.240	120733	1.9887	DIELDRIN NC
39	14.298	90146	1.8069	ENDRIN C <
44	17.431	57663	1.3534	4,4'-DDD C <
45	17.724	70185	1.3462	ENDOSULFAN II NC <
47	18.920	11220	0.2879	4,4'-DDT C <
56	24.191	36855	0.8598	ENDO. SULFATE NC
57	24.707	396619	18.0531	METHOXYCHLOR C
61	26.200	650754	16.2444	ENDRIN KETONE NC
72	29.667	645021	14.3960	DCB
Total		3802583	87.9410	
Residual		13688522	302.5902	

VG Data Systems - Minichrom v1.66

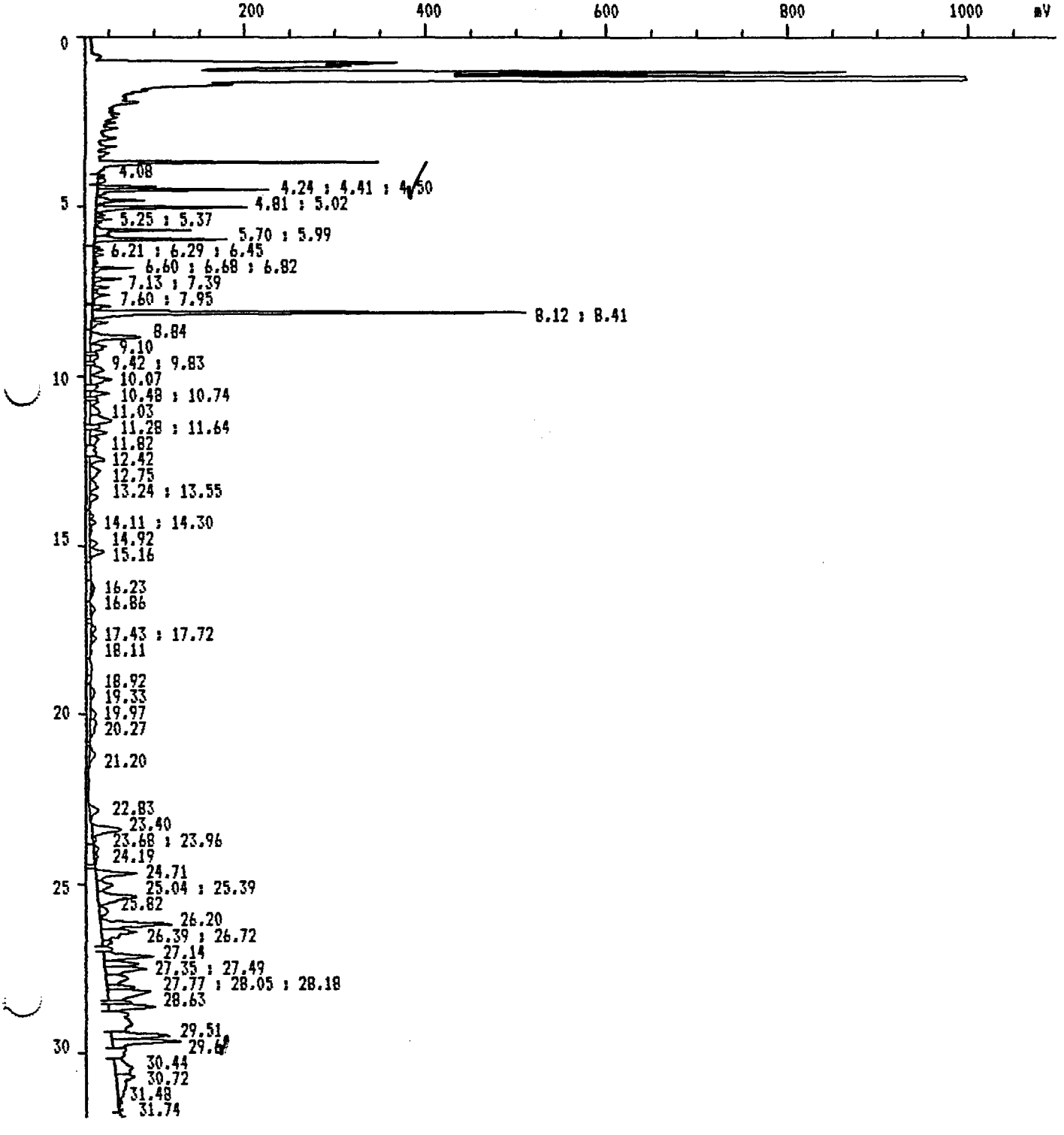
LONG PLOT

000623

Injection C: <PESTEPA> 3 0424BSAM,11,1

Sample name.....: 15427.06
Sample ID.....: FER90
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 03:00:25
Reported on 25-Apr-96 at 03:35:23



VG Data Systems - Minichrom v1.66

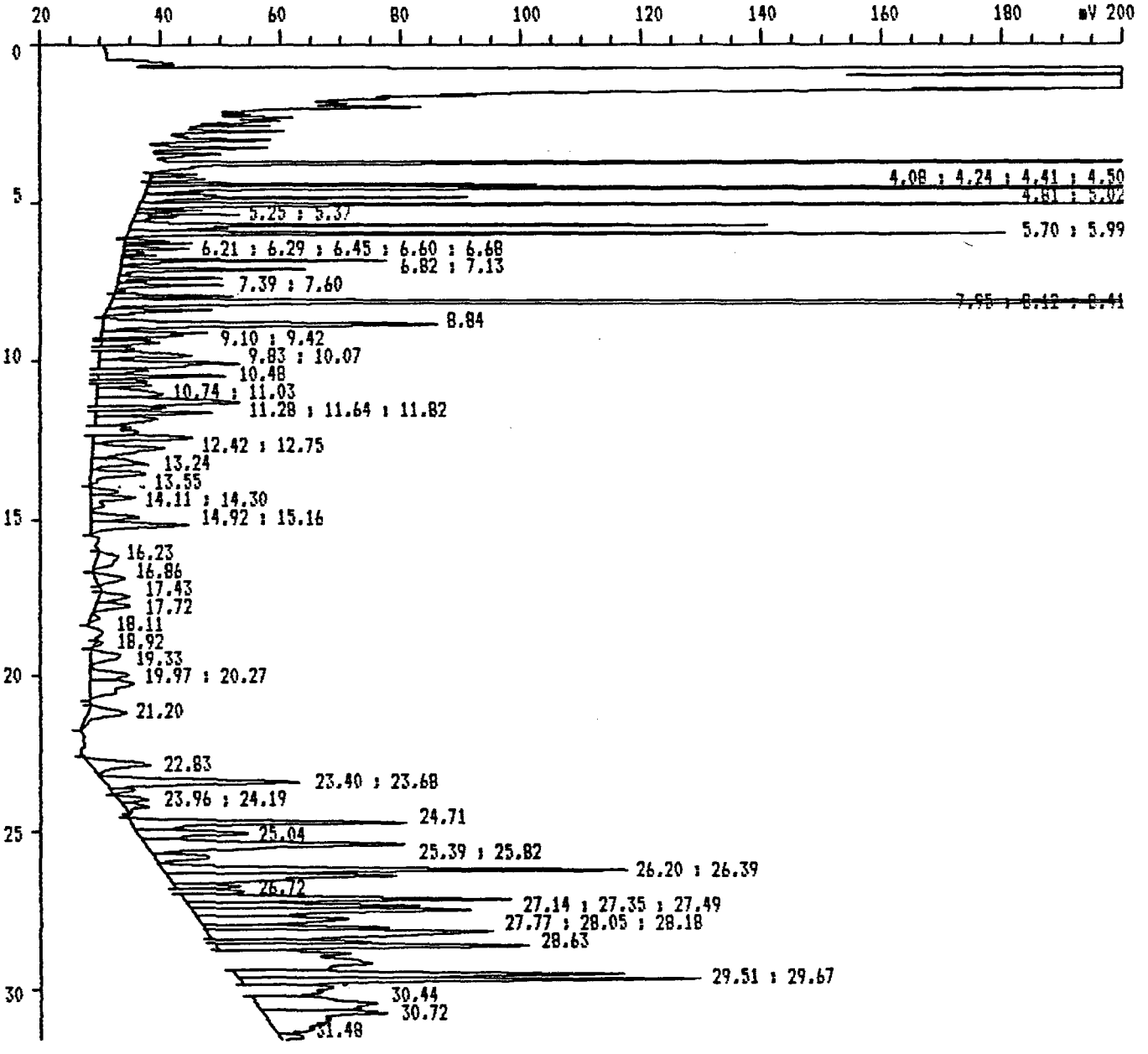
LONG PLOT

000624

Injection C: <PESTEPA> 3 0424BSAM,11,1

Sample name.....: 15427.06
Sample ID.....: FER90
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 03:00:25
Reported on 29-Apr-96 at 09:23:39



External Standard Report

000626

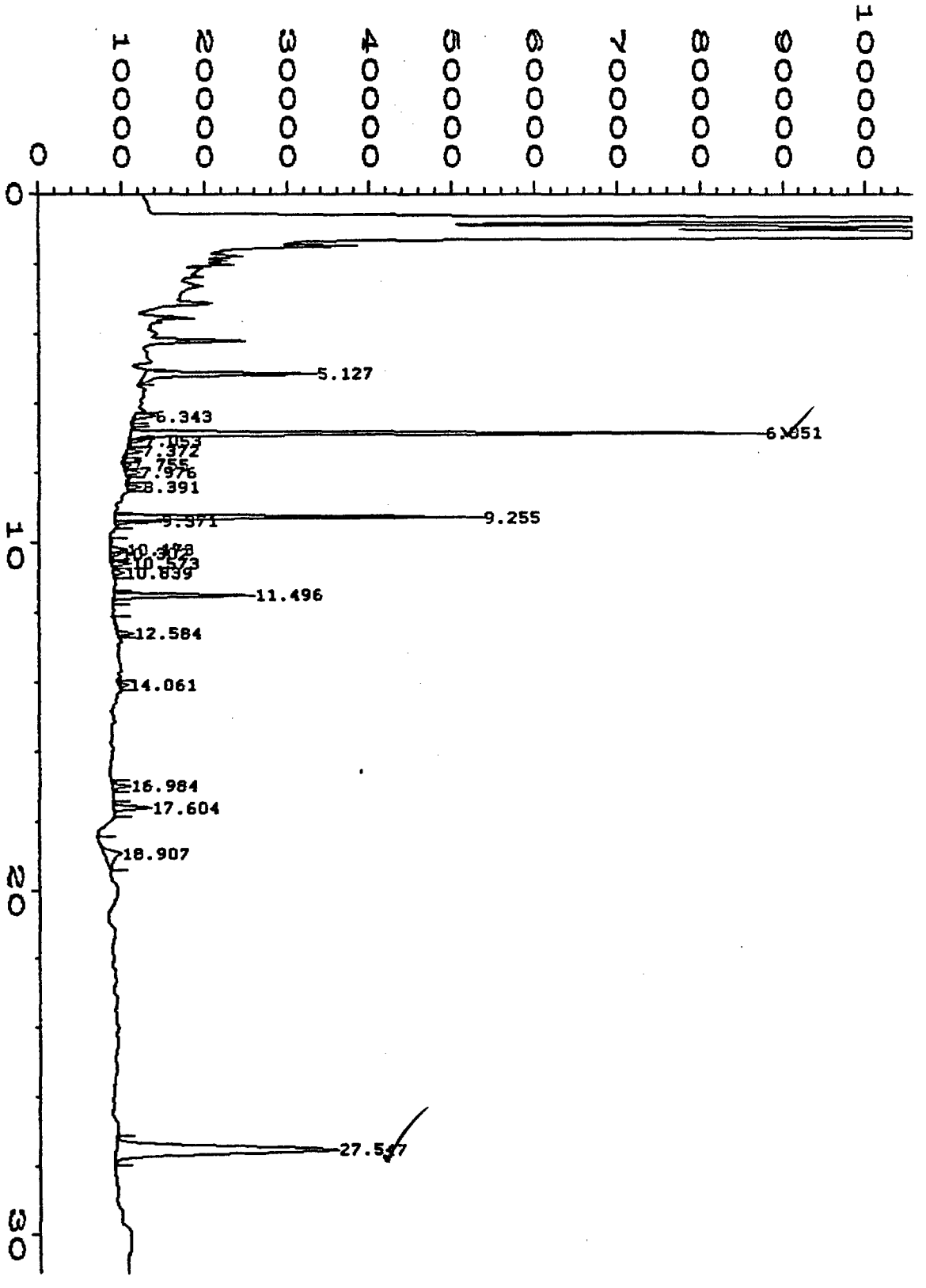
Data File Name : C:\HPCHEM\3\DATA\3041596\036F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.07
Run Time Bar Code:
Acquired on : 16 Apr 96 10:34 AM
Report Created on: 16 Apr 96 11:09 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER91 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\036F0101.D

Ret Time	Area	Type	Width	Ref#	ug/kg	Name
6.851	352688	BV	0.071	1	11.267	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.839	8868	VB	0.100	1	0.274	HEPTACHLOR C <
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.061	6607	BB	0.091	1	0.215	a. CHLORDANE NC Ø
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.984	12343	BB	0.088	1	0.773	ENDRIN ALDEHYDE NC
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.547	401699	BB	0.236	1	13.671	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\036F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 36
Sample Name	: 15427.07	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 10:34 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 11:10 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 333	ISTD Amount	:
Sample Info	: FER91 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66 **000628**

INJECTION REPORT

Injection C: <PESTEPA> 3 0424BSAM,5,1

Acquired on 24-Apr-96 at 23:11:09
Modified on 24-Apr-80 at 23:44:10
Reported on 24-Apr-96 at 23:44:33

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 23:44:08
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15427.07
Sample ID.....: FEB 91
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 30

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
2	4.498	711363	11.5544	TCX
12	7.573	33096	0.4755	HEPTACHLOR C
22	29.658	634452	14.1601	DCB
Total		1378911	26.1900	
Residual		1546865	24.6246	

VG Data Systems - Minichrom v1.66

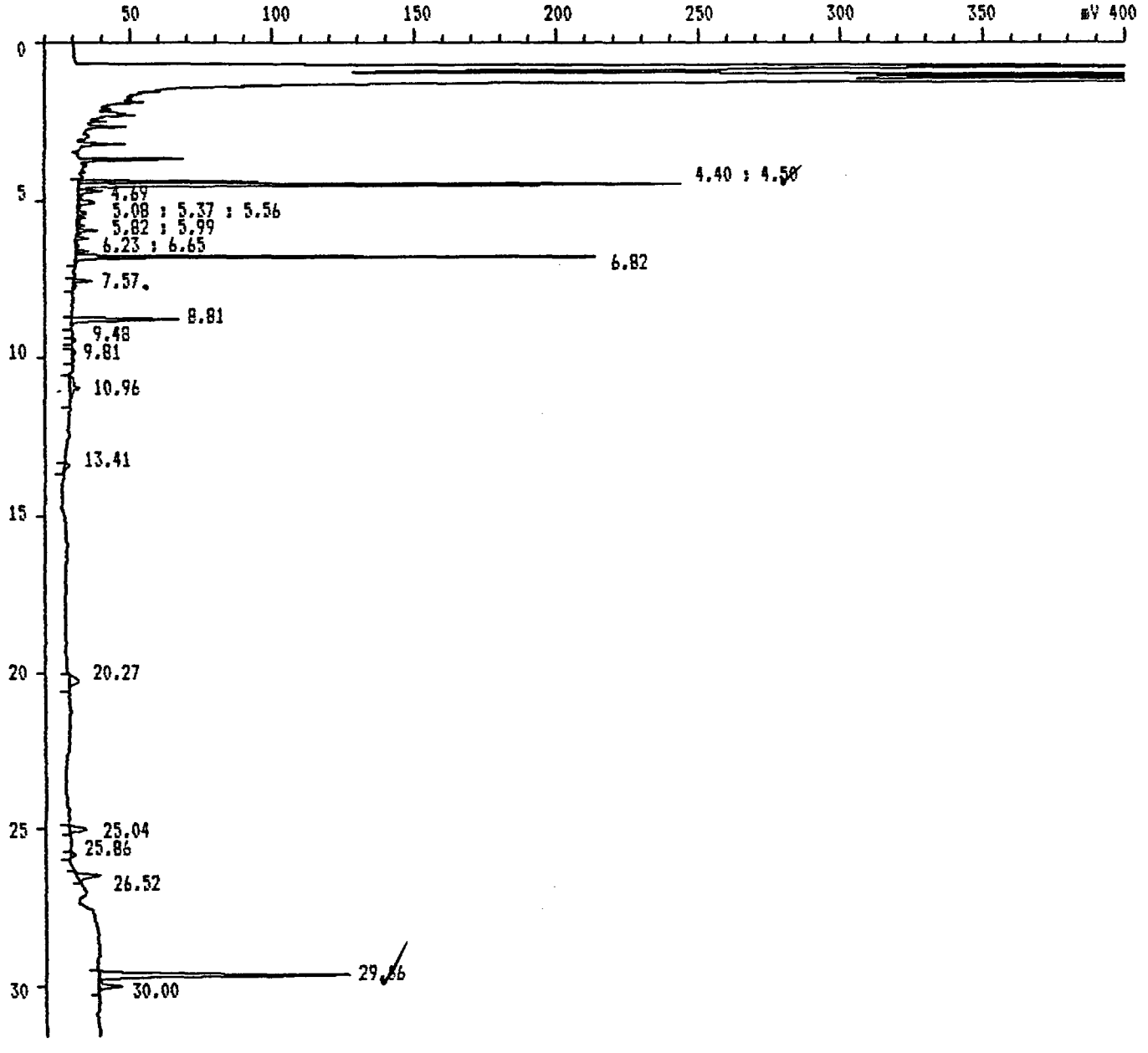
LONG PLOT

000629

Injection C: <PESTEPA> 3 0424BSAM,5,1

Sample name.....: 15427.07
Sample ID.....: FER9 1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 23:11:09
Reported on 29-Apr-96 at 08:54:39



External Standard Report

000631

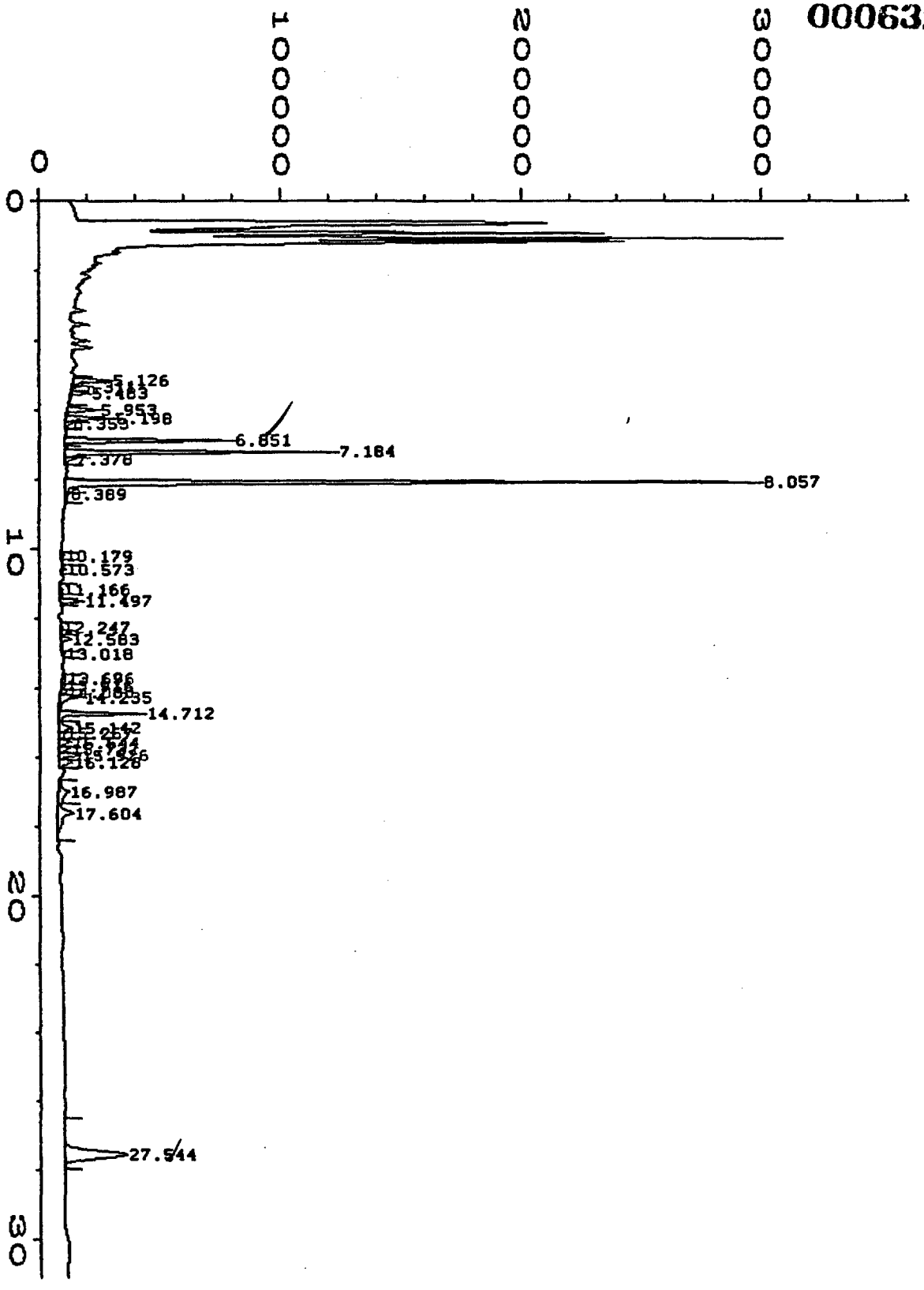
Data File Name : C:\HPCHEM\3\DATA\3041596\037F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.08
Run Time Bar Code:
Acquired on : 16 Apr 96 11:10 AM
Report Created on: 16 Apr 96 11:45 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER92 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 37
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\037F0101.D

Ret Time	Area	Type	Width	Ref#	ug/kg	Name
6.851	324108	PV	0.072	1	10.354	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.696	17743	VV	0.148	1	0.574	g. CHLORDANE NC
14.088	16235	VV	0.089	1	0.528	a. CHLORDANE NC
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.926	58834	VV	0.096	1	3.855	4,4'-DDD NC
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.987	93243	VV	0.261	1	5.838	ENDRIN ALDEHYDE NC
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.544	408510	BV	0.245	1	13.903	DCB

Not all calibrated peaks were found



Data File Name : C:\HPCHEM\3\DATA\3041596\037F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.08
Run Time Bar Code:
Acquired on : 16 Apr 96 11:10 AM
Report Created on: 16 Apr 96 11:45 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER92 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 37
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000633

Injection C: <PESTEPA> 3 0424BSAM,15,1

Acquired on 25-Apr-96 at 05:33:15
Modified on 25-Apr-80 at 06:06:26
Reported on 25-Apr-96 at 06:06:48

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 06:06:24
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15427.08
Sample ID.....: FER92
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 40

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
4	4.480	650368	10.5637	TCX
13	7.564	30000	0.4310	HEPTACHLOR NC
18	12.347	73195	1.4362	4,4'-DDE NC
33	29.640	582748	13.0062	DCB
Total		1336312	25.4370	
Residual		4566325	77.3398	

VG Data Systems - Minichrom v1.66

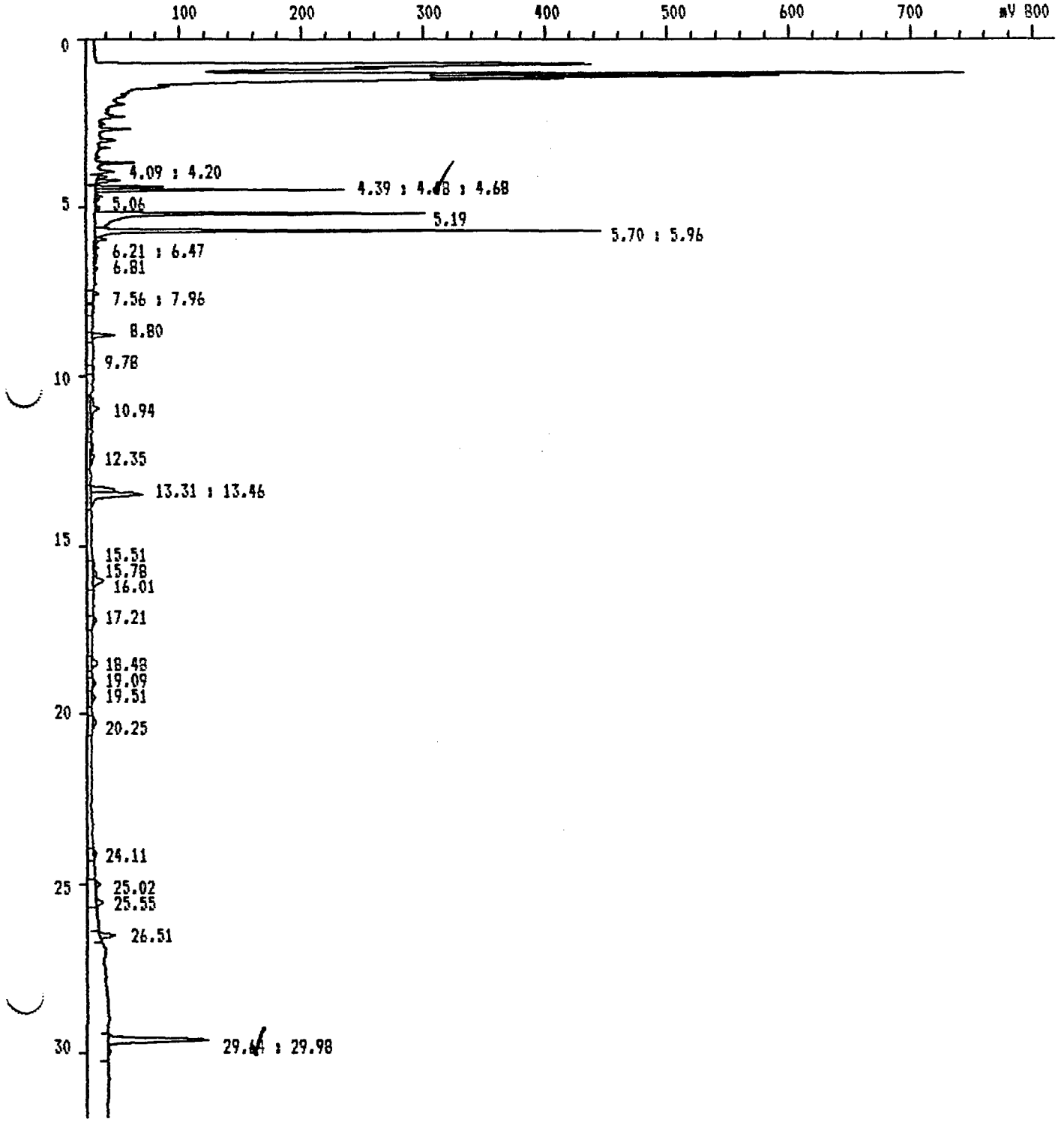
LONG PLOT

000634

Injection C: <PESTEPA> 3 0424BSAM,15,1

Sample name.....: 15427.08
Sample ID.....: FER92
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 05:33:15
Reported on 25-Apr-96 at 06:07:46



External Standard Report

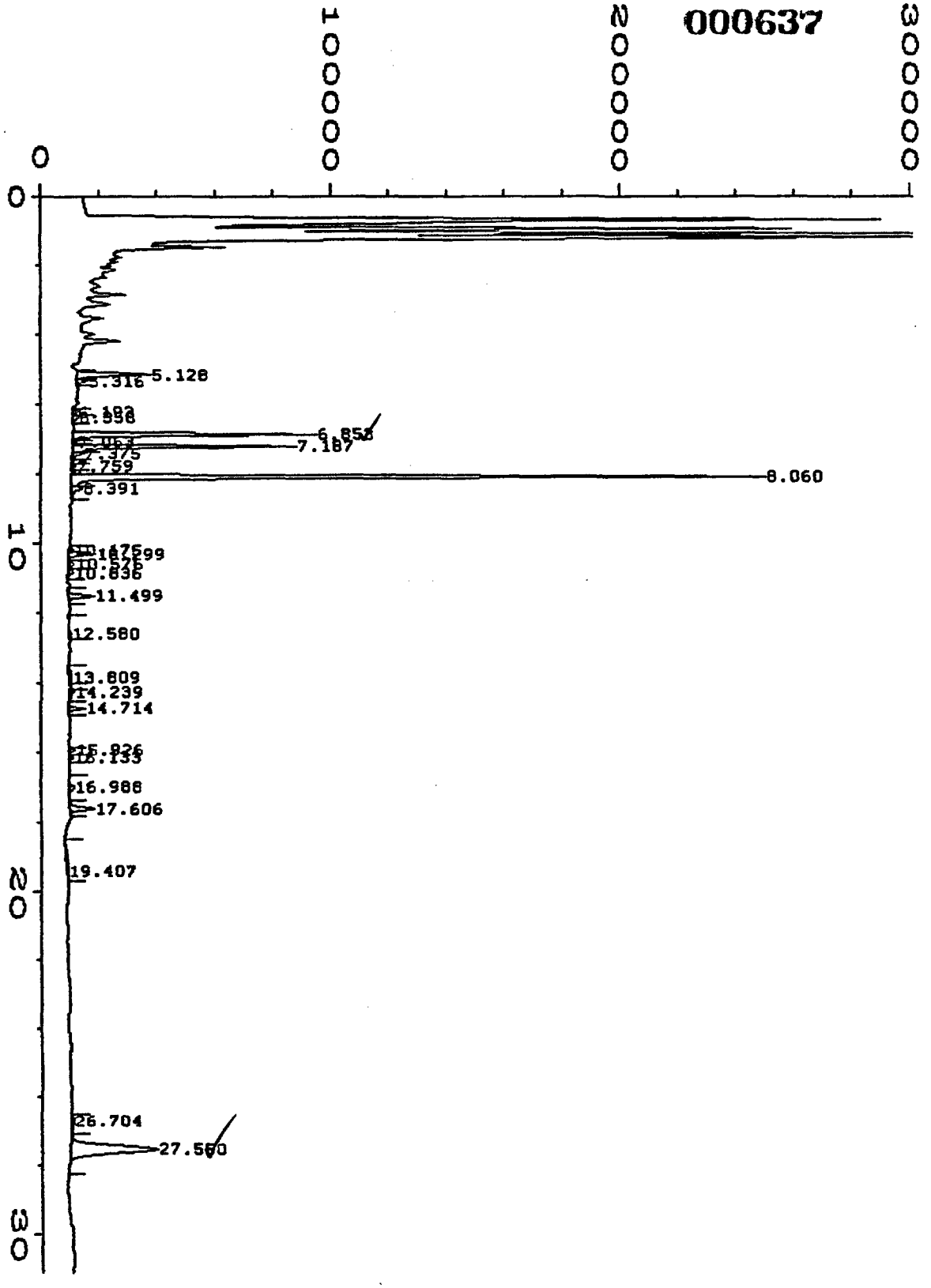
000636

Data File Name : C:\HPCHEM\3\DATA\3041596\038F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15427.09
Run Time Bar Code:
Acquired on : 16 Apr 96 11:45 AM
Report Created on: 16 Apr 96 12:20 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :
Sample Info : FER93 , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Sig. 1 in C:\HPCHEM\3\DATA\3041596\038F0101.D

Ret Time	Area	Type	Width	Ref#	ug/kg	Name
6.853	394615	VV	0.072	1	12.606	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.836	17218	VB	0.123	1	0.532	HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.926	12424	PV	0.080	1	0.814	4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.988	19766	BB	0.144	1	1.238	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.407	30722	BB	0.755	1	4.327	METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.550	460974	BV	0.242	1	15.688	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\038F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 38
Sample Name	: 15427.09	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 11:45 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 12:21 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 333	ISTD Amount	:
Sample Info	: FER93 , HP3F; COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

000638

INJECTION REPORT

Injection C: <PESTEPA> 3 0424BSAM,17,1

Acquired on 25-Apr-96 at 06:49:50
Modified on 25-Apr-80 at 07:22:52
Reported on 25-Apr-96 at 07:23:14

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 07:22:50
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15427.09
Sample ID.....: FEB93
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 42

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
4	4.489	731991	11.8895	TCX
14	7.573	41239	0.5925	HEPTACHLOR c
18	10.387	43477	0.6895	HEPT. EPOXIDE NC ∅
25	29.653	657861	14.6826	DCB
Total		1474569	27.8540	
Residual		2972222	47.9256	

VG Data Systems - Minichrom v1.66

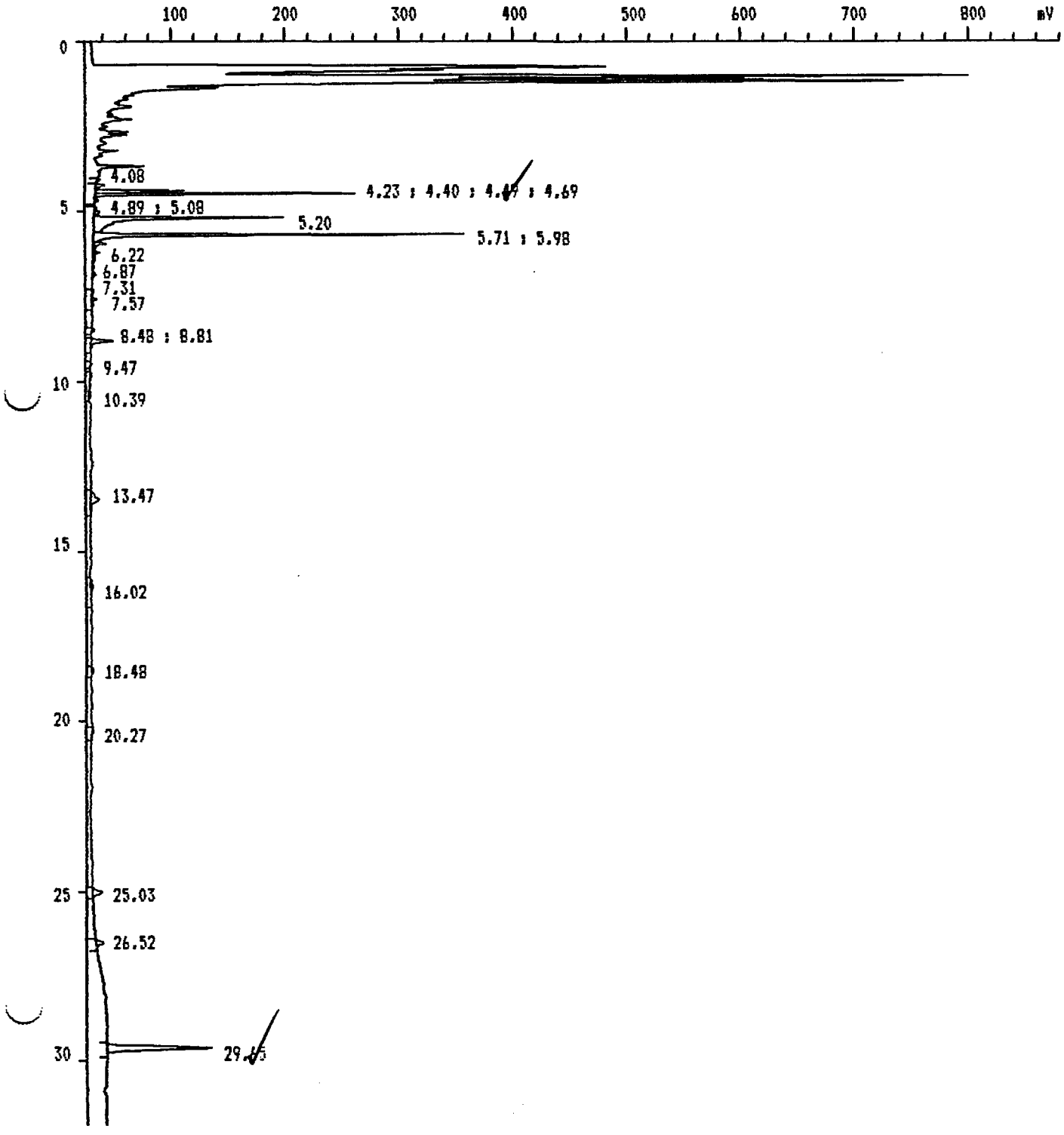
LONG PLOT

000639

Injection C: <PESTEPA> 3 0424BSAM,17,1

Sample name.....: 15427.09
Sample ID.....: FER93
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 06:49:50
Reported on 25-Apr-96 at 07:24:12



External Standard Report

000641

Data File Name : C:\HPCHEM\3\DATA\3041596\018F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15411.02
Run Time Bar Code: 23 55
Acquired on : 15 Apr 96 11:55 PM
Report Created on: 16 Apr 96 08:16 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER94, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

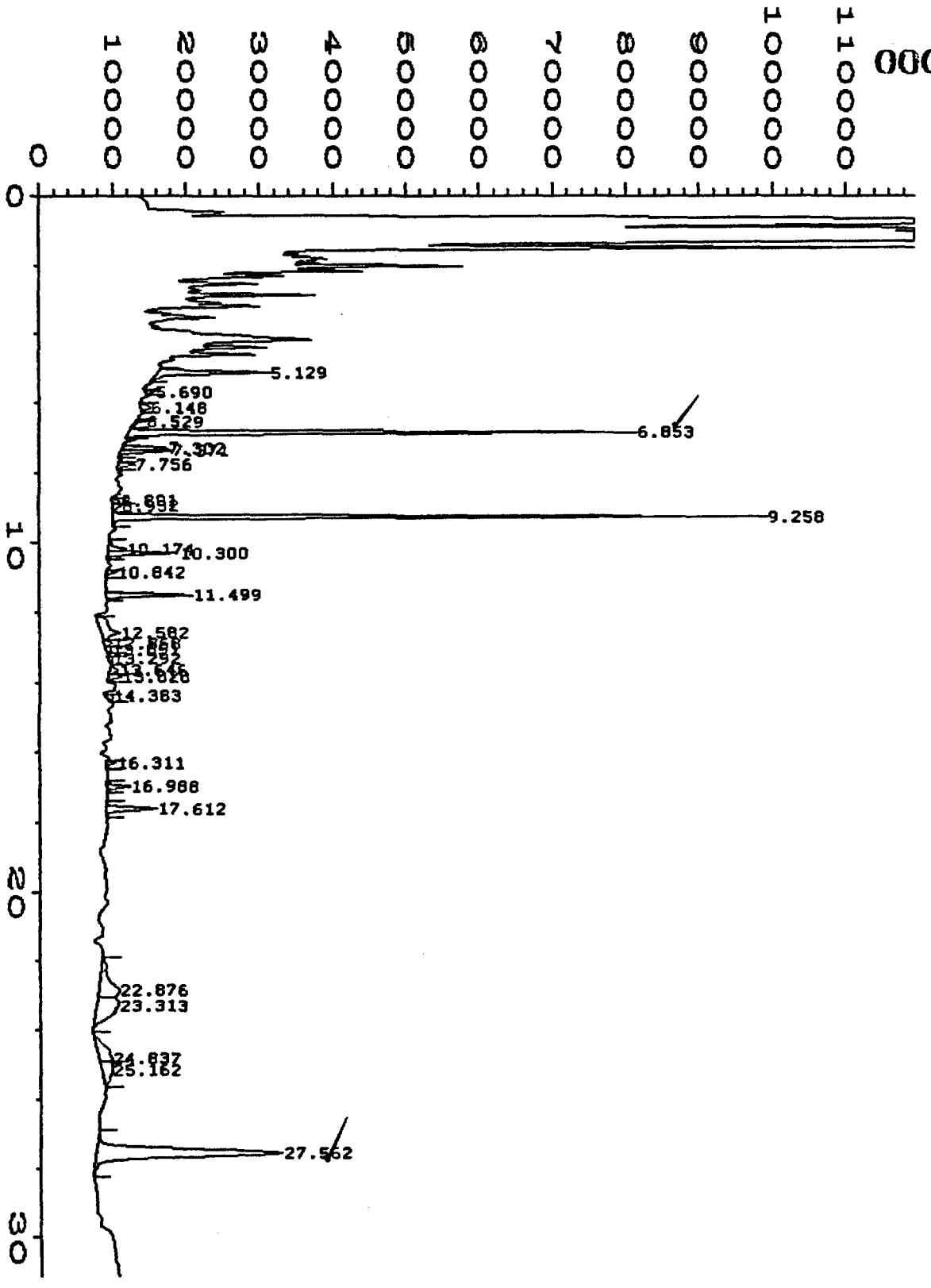
Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\018F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.853	318283	PV	0.071	1	10.168	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.842	7748	VV	0.085	1	0.239	HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.646	10064	BV	0.110	1	0.325	g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.311	7142	VV	0.078	1	0.324	ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.988	17471	BV	0.084	1	1.094	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.562	399918	BB	0.246	1	13.610	DCB

Not all calibrated peaks were found

000642



Data File Name : C:\HPCHEM\3\DATA\3041596\018F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15411.02
Run Time Bar Code: 2355
Acquired on : 15 Apr 96 11:55 PM
Report Created on: 16 Apr 96 00:31 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : FER94, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000643

Injection C: <PESTEPA> 3 0424SAM,5,1

Acquired on 24-Apr-96 at 12:34:46
Modified on 24-Apr-80 at 13:07:54
Reported on 24-Apr-96 at 13:08:15

ANALYSIS INFORMATION

JB 4/24/96

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: ~~RTX-35~~ DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 13:07:52
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15411.02
Sample ID.....: FER94
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 5

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
3	4.502	830873	13.4956	TCX
13	7.587	76793	1.1032	HEPTACHLOR C
14	8.244	16741	0.2861	ALDRIN NC
16	8.831	175039	4.2778	beta-BHC NC
23	17.427	38331	0.8997	4,4'-DDD NC
27	29.680	624873	13.9464	DCB
Total		1762650	34.0087	
Residual		3754681	68.3105	

VG Data Systems - Minichrom v1.66

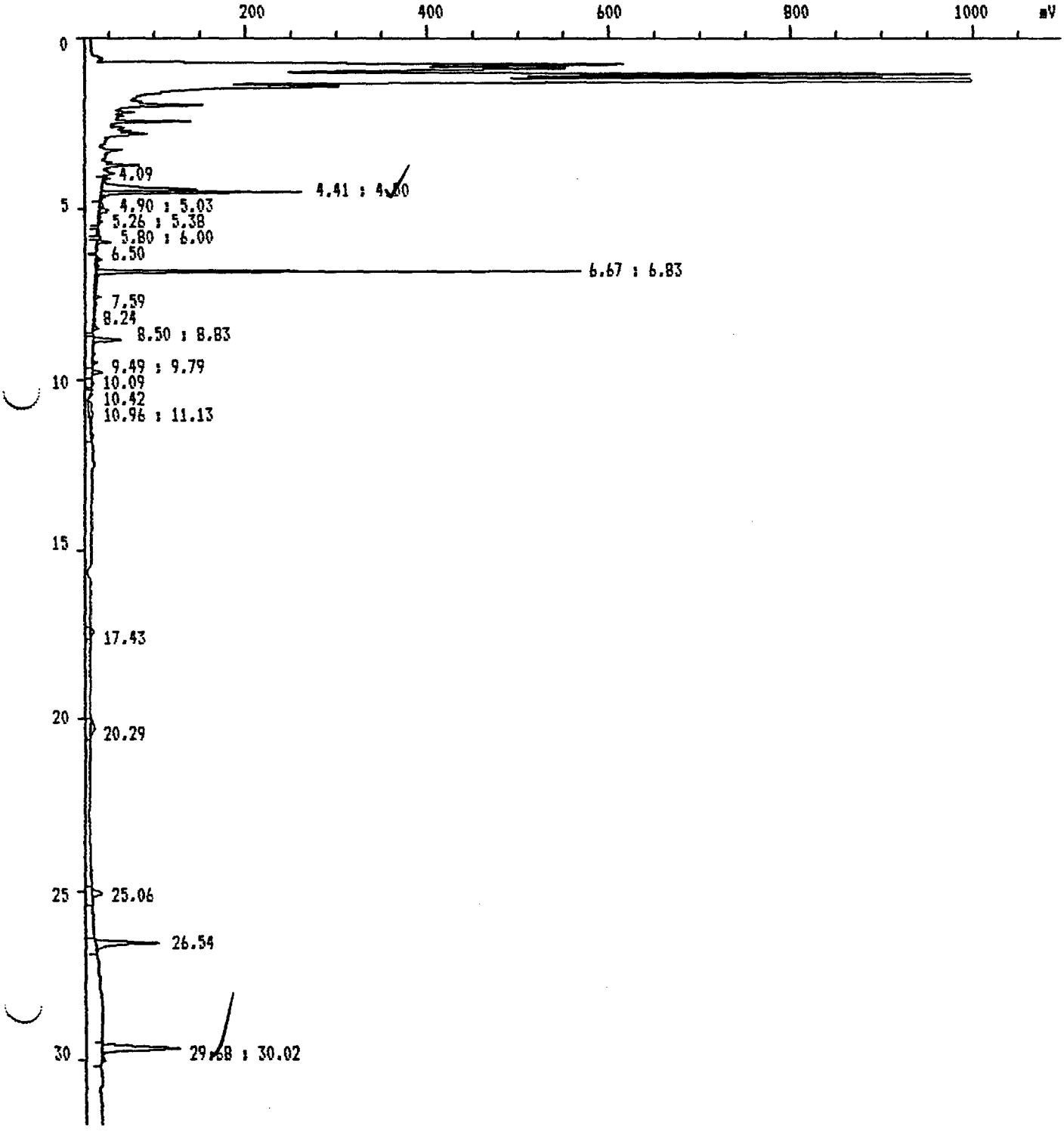
LONG PLOT

000644

Injection C: <PESTEPA> 3 0424SAM,5,1

Sample name.....: 15411.02
Sample ID.....: FER94
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 12:34:46
Reported on 24-Apr-96 at 13:09:15



External Standard Report

000646

Data File Name : C:\HPCHEM\3\DATA\3041596\019F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15411.03
Run Time Bar Code:
Acquired on : 16 Apr 96 00:31 AM
Report Created on: 16 Apr 96 08:17 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER95, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

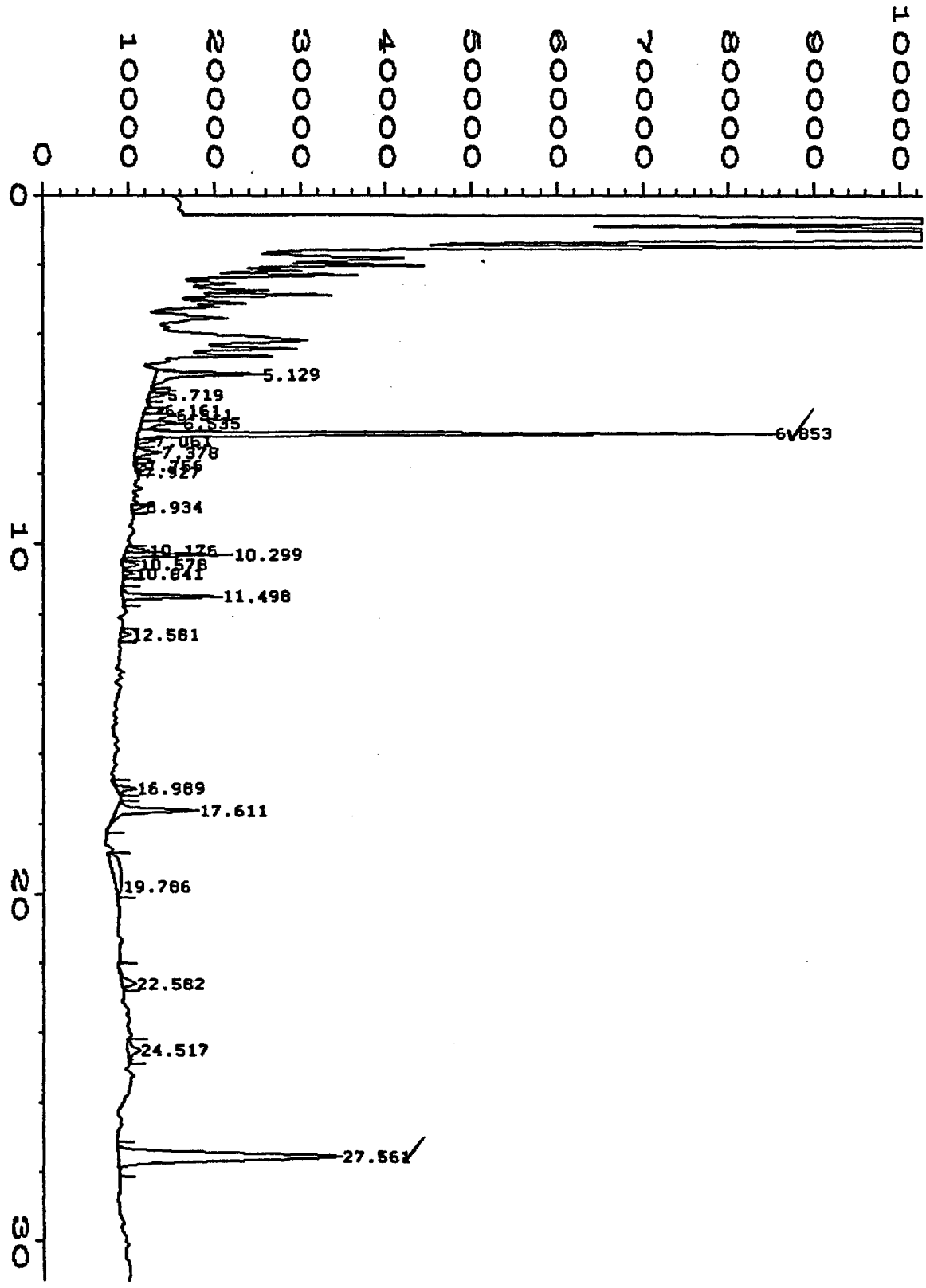
Page Number : 1
Vial Number : 19
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\019F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.853	352289	VV	0.073	1	11.254	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.841	7645	VB	0.092	1	0.236	HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.989	15069	BB	0.102	1	0.943	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.561	390134	BB	0.234	1	13.277	DCB

Not all calibrated peaks were found

000647



Data File Name	: C:\HPCHEM\3\DATA\3041596\019F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 19
Sample Name	: 15411.03	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 00:31 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 01:06 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER95, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000648

Injection C: <PESTEPA> 3 0424SAM,6,1

Acquired on 24-Apr-96 at 13:13:09
Modified on 24-Apr-80 at 13:47:54
Reported on 24-Apr-96 at 13:48:16

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 13:47:52
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15411.03
Sample ID.....: FER95
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 6

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
3	4.498	787185	12.7860	TCX
14	7.582	61688	0.8862	HEPTACHLOR e
25	29.676	606959	13.5465	DCB /
Total		1455831	27.2187	
Residual		1325135	20.6251	

VG Data Systems - Minichrom v1.66

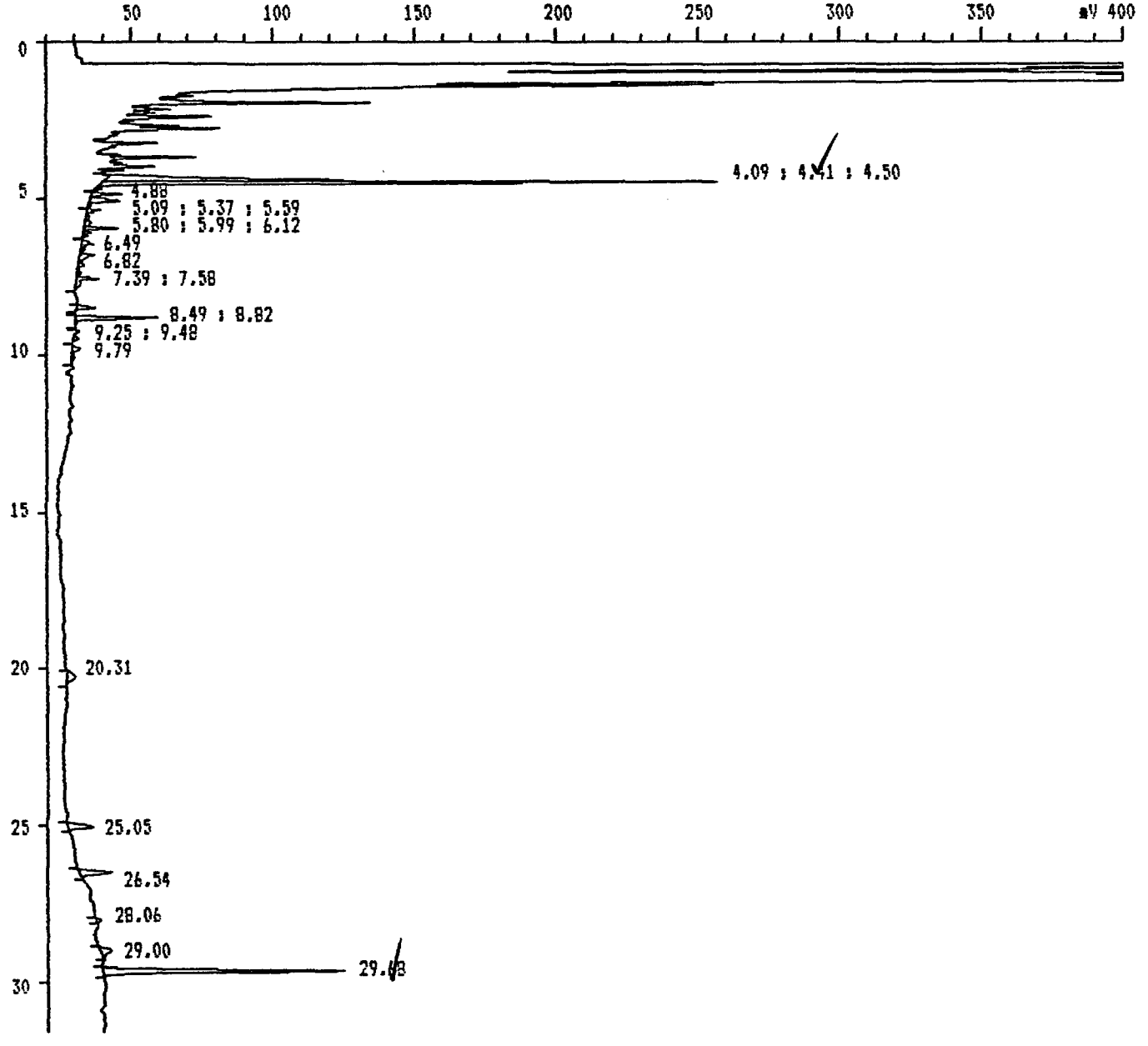
LONG PLOT

000649

Injection C: <PESTEPA> 3 0424sam,6,1

Sample name.....: 15411.03
Sample ID.....: FER95
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 13:13:09
Reported on 29-Apr-96 at 08:43:36



External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3041596\020F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15411.04
Run Time Bar Code:
Acquired on : 16 Apr 96 01:06 AM
Report Created on: 16 Apr 96 08:17 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER97, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

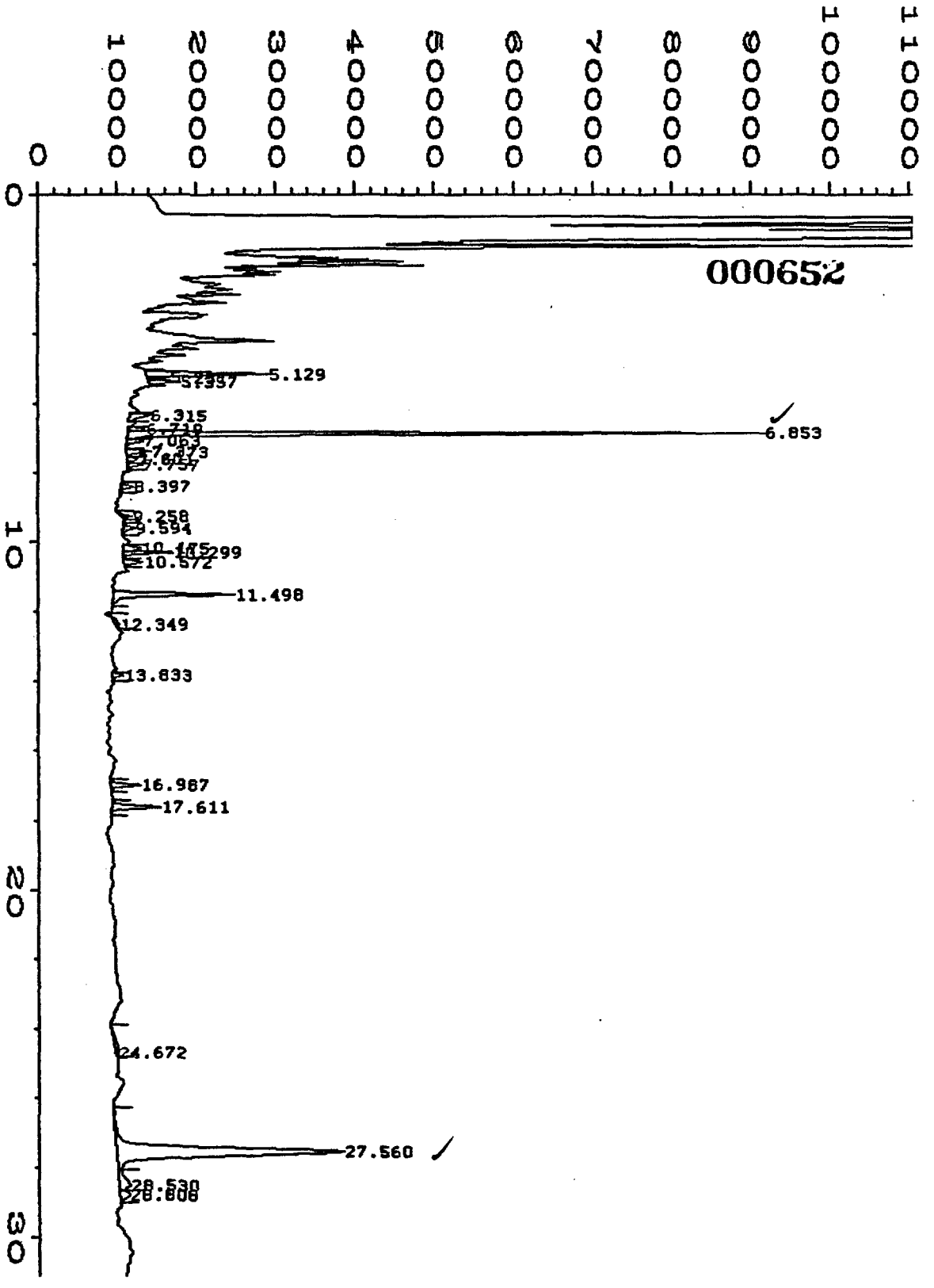
000651

Page Number : 1
Vial Number : 20
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\020F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.853	374542	VV	0.072	1	11.965	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE Ø
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.987	20748	BB	0.086	1	1.299	ENDRIN ALDEHYDE NC
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.560	465967	BV	0.250	1	15.858	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\020F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 20
Sample Name	: 15411.04	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 01:06 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 01:42 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER97, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

Injection C: <PESTEPA> 3 0424SAM,7,1 **000653**

Acquired on 24-Apr-96 at 13:51:25
Modified on 26-Apr-80 at 09:49:10
Reported on 26-Apr-96 at 09:50:54

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 26-Apr-80 at 09:49:08
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 16:20:56
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15411.04
Sample ID.....: FER97
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 7

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
3	4.498	721958 ✓	11.7265	TCX
15	7.151	19338	0.2629	gamma-BHC NO
17	7.582	41136	0.5910	HEPTACHLOR NO
26	29.676	685394	15.2971	DCB
Total		1467825	27.8775	
Residual		1118145	17.2220	

VG Data Systems - Minichrom v1.66

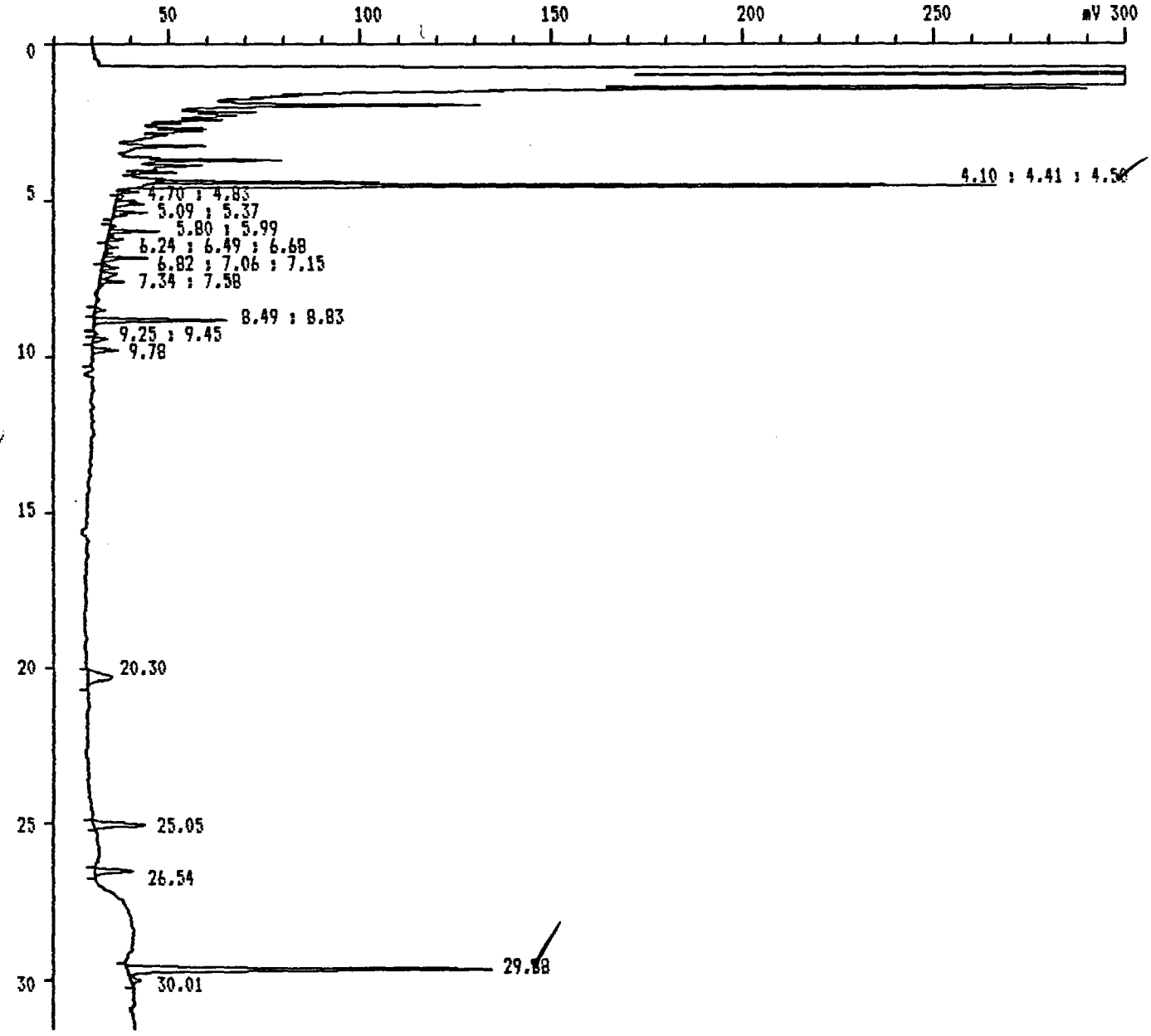
LONG PLOT

000654

Injection C: <PESTEPA> 3 0424SAM,7,1

Sample name.....: 15411.04
Sample ID.....: FER97
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 13:51:25
Reported on 26-Apr-96 at 13:56:41



External Standard Report

000656

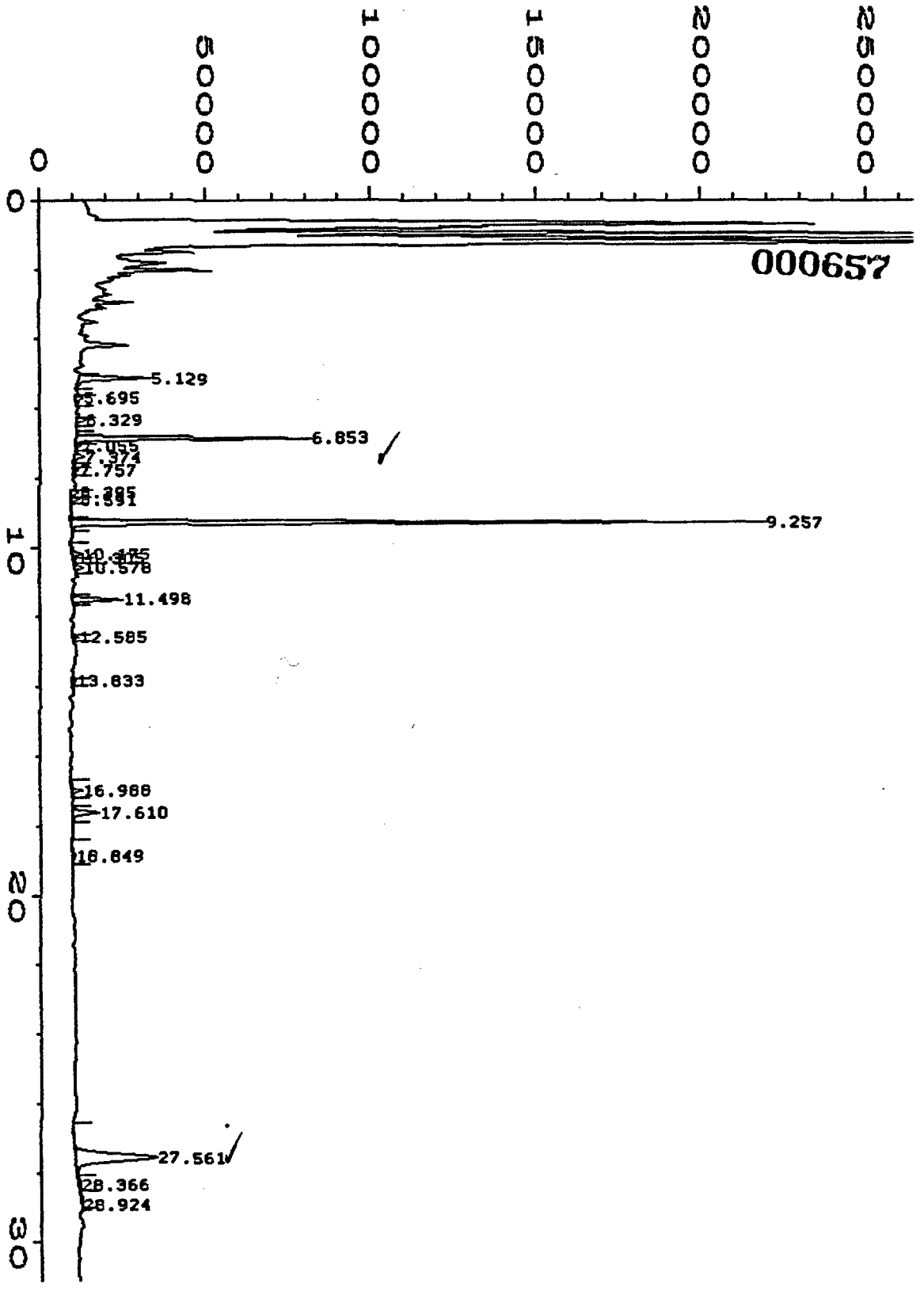
Data File Name : C:\HPCHEM\3\DATA\3041596\021F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15411.05
Run Time Bar Code:
Acquired on : 16 Apr 96 01:42 AM
Report Created on: 16 Apr 96 08:17 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER98, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\021F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.853	324256	BV	0.071	1	10.359	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.988	18802	BB	0.096	1	1.177	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.561	369500	BV	0.241	1	12.575	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\021F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 21
Sample Name	: 15411.05	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 01:42 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 02:17 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER98, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000658

Injection C: <PESTEPA> 3 0424SAM,8,1

Acquired on 24-Apr-96 at 14:29:28
Modified on 24-Apr-80 at 15:31:08
Reported on 24-Apr-96 at 15:31:27

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 15:31:04
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15411.05
Sample ID.....: FER98
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 8

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
4	4.498	700052	11.3707	TCX
15	7.578	57678	0.8286	HEPTACHLOR NC Ø
21	11.884	8985	0.1394	a. CHLORDANE NC
27	29.671	588122	13.1261	DCB
Total		1354838	25.4648	
Residual		4560561	76.0842	

VG Data Systems - Minichrom v1.66

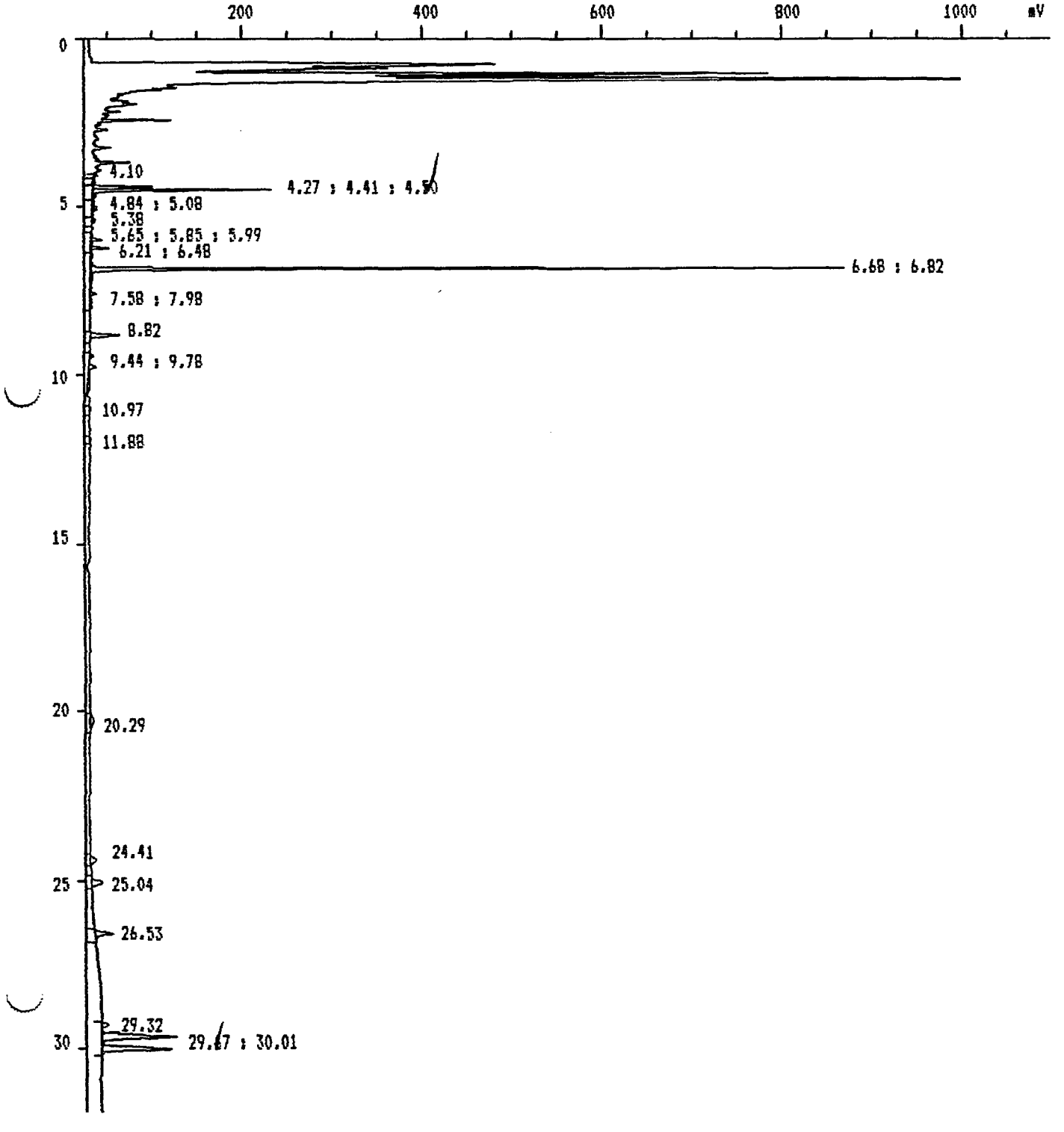
LONG PLOT

000659

Injection C: <PESTEPA> 3 0424SAM,8,1

Sample name.....: 15411.05
Sample ID.....: FER98
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 14:29:28
Reported on 24-Apr-96 at 15:32:25



External Standard Report

000661

Data File Name : C:\HPCHEM\3\DATA\3041596\022F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15411.06
Run Time Bar Code:
Acquired on : 16 Apr 96 02:17 AM
Report Created on: 16 Apr 96 08:17 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER99, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

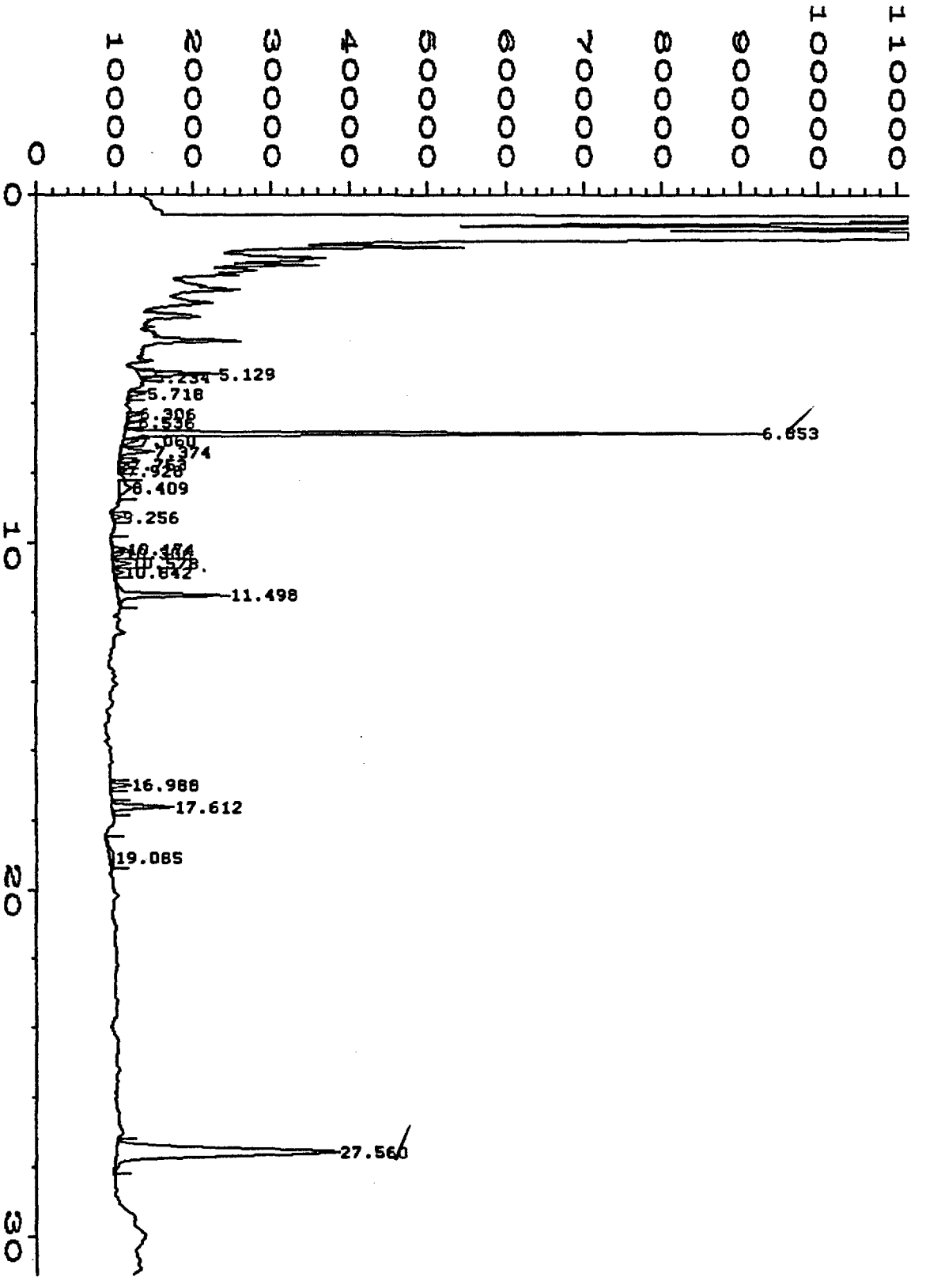
Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\022F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.853	379855	BV	0.072	1	12.135	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.842	8954	VV	0.100	1	0.276	HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.988	14476	BB	0.087	1	0.906	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.560	449812	VV	0.246	1	15.308	DCB

Not all calibrated peaks were found

000662



Data File Name	: C:\HPCHEM\3\DATA\3041596\022F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 22
Sample Name	: 15411.06	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 02:17 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 02:53 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER99, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

000663

INJECTION REPORT

Injection C: <PESTEPA> 3 0424SAM,9,1

Acquired on 24-Apr-96 at 15:07:50
Modified on 24-Apr-80 at 15:40:54
Reported on 24-Apr-96 at 15:41:15

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 15:40:52
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15411.06
Sample ID.....: FER99
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 9

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
4	4.502	788090	12.8007	TCX
14	7.582	37370	0.5369	HEPTACHLOR C
15	8.258	20903	0.3572	ALDRIN NC
21	24.716	15694	0.7143	METHOXYCHLOR NC
24	29.676	731488	16.3259	DCB
Total		1593545	30.7350	
Residual		907005	20.1019	

VG Data Systems - Minichrom v1.66

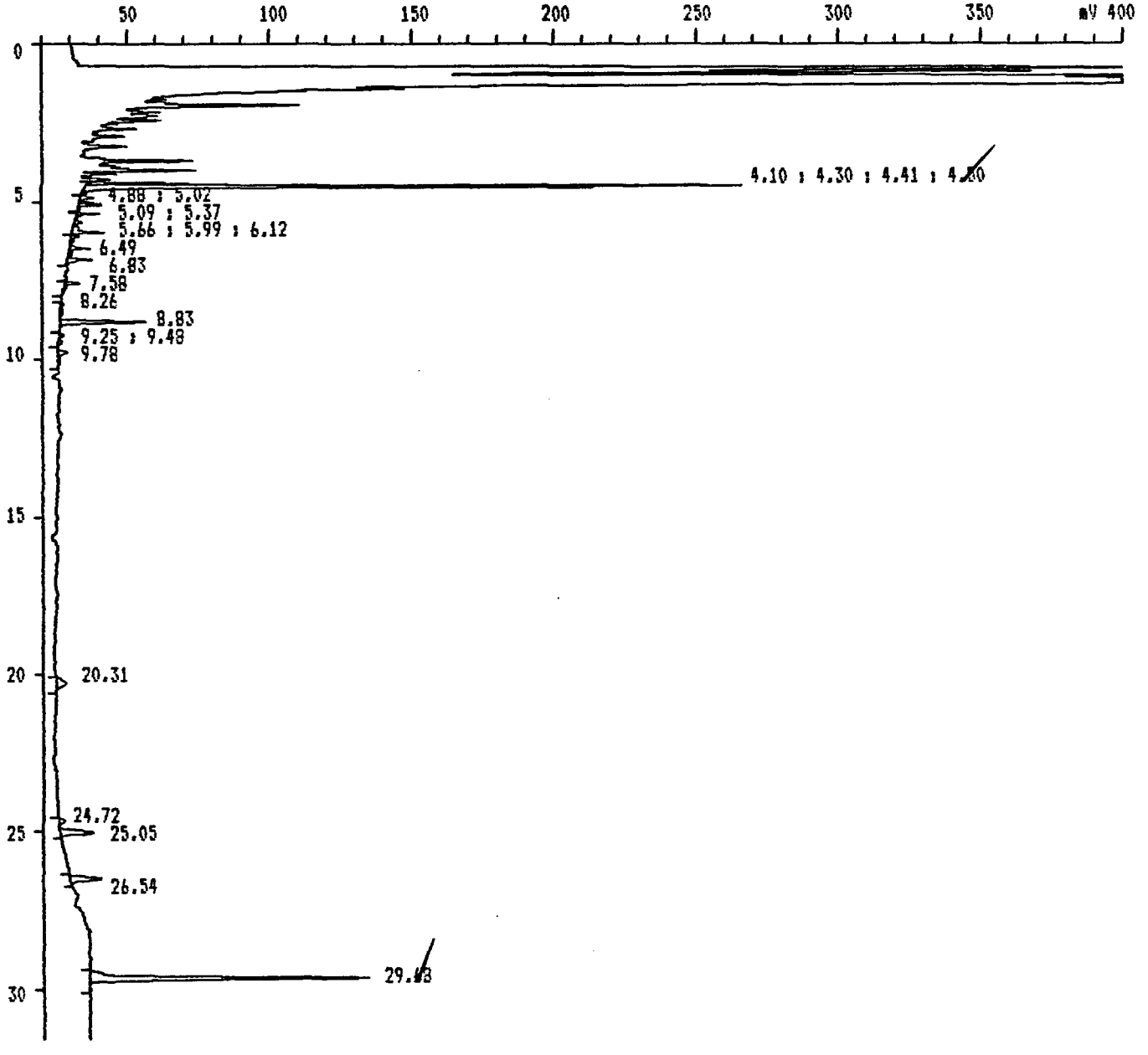
LONG PLOT

000664

Injection C: <PESTEPA> 3 0424sam,9,1

Sample name.....: 15411.06
Sample ID.....: FER99
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 15:07:50
Reported on 29-Apr-96 at 08:45:23



External Standard Report

000666

Data File Name : C:\HPCHEM\3\DATA\3041596\017F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15411.01
Run Time Bar Code: 23 20
Acquired on : 15 Apr 96 11:20 PM
Report Created on: 16 Apr 96 08:13 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FES00, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

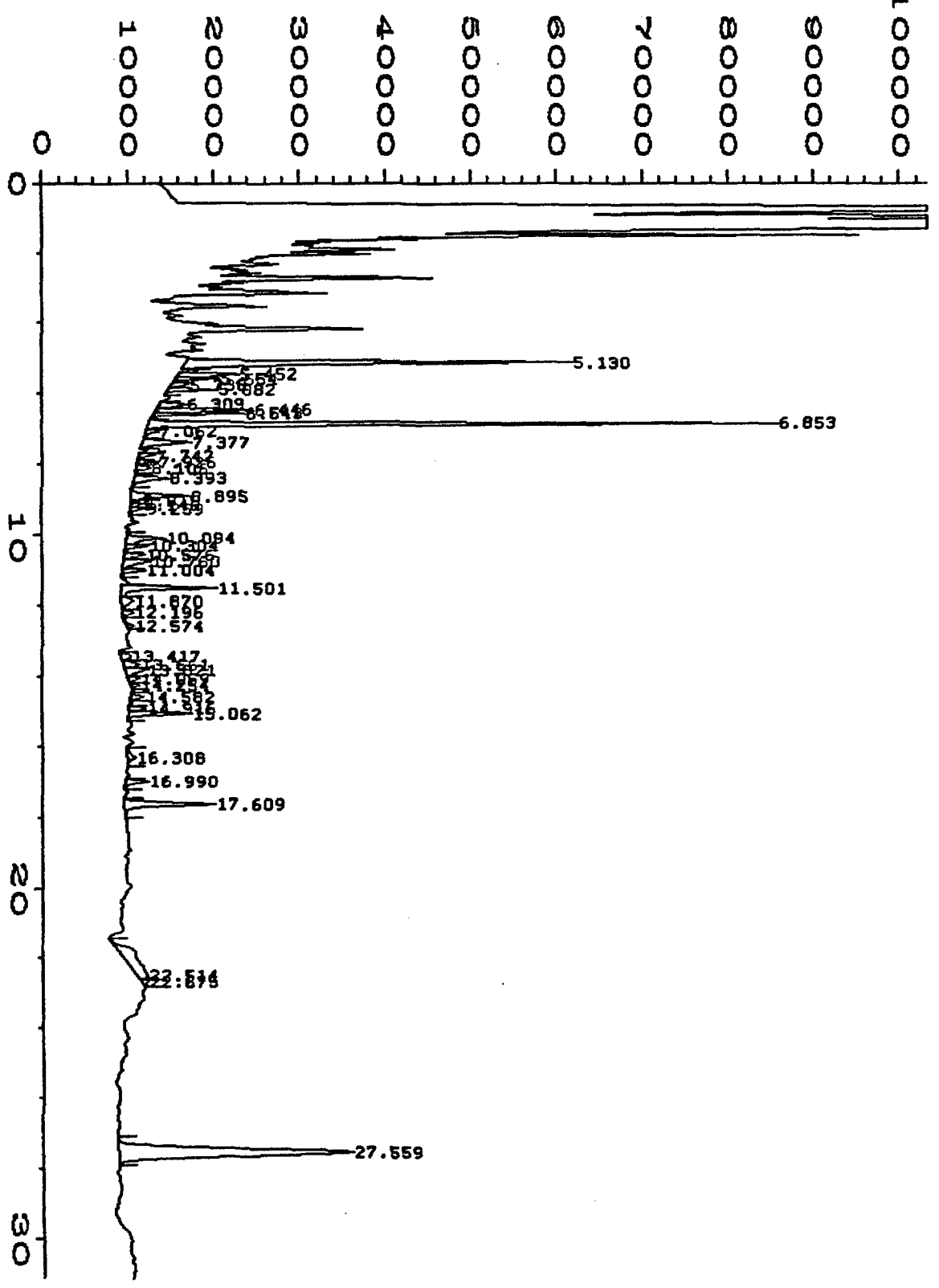
Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\017F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.853	346755	PV	0.073	1	11.077	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.661	14418	VV	0.112	1	0.466	g. CHLORDANE NC
14.059	8427	VV	0.093	1	0.274	a. CHLORDANE NC
14.156	* not found *			1		ENDOSULFAN I P
14.582	8989	BV	0.081	1	0.382	4,4'-DDE C
14.916	10922	PV	0.080	1	0.459	DIELDRIN C
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.308	10316	PB	0.147	1	0.468	ENDOSULFAN II NC
16.818	* not found *			1		4,4'-DDT
16.990	17753	VV	0.099	1	1.111	ENDRIN ALDEHYDE NC
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.559	414145	BV	0.234	1	14.094	DCB

Not all calibrated peaks were found

000667



Data File Name	: C:\HPCHEM\3\DATA\3041596\017F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 17
Sample Name	: 15411.01	Injection Number	: 1
Run Time Bar Code:	2330	Sequence Line	: 1
Acquired on	: 15 Apr 96 11:20 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 11:55 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FES00, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000668

Injection C: <PESTEPA> 3 0424SAM,4,1

Acquired on 24-Apr-96 at 11:56:29
Modified on 24-Apr-80 at 12:29:36
Reported on 24-Apr-96 at 12:29:58

ANALYSIS INFORMATION

4/24/96

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: ~~RTX-35~~ DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 12:29:34
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15411.01
Sample ID.....: FES00
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 4

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
4	4.502	749276	12.1702	TCX
19	7.151	42432	0.5769	gamma-BHC NC
22	7.582	70576	1.0139	HEPTACHLOR NC
31	12.391	38832	0.7619	4,4'-DDE NC
32	13.107	34785	0.5730	DIELDRIN NC
34	14.324	15495	0.3106	ENDRIN NC
38	29.680	654958	14.6178	DCB
Total		1606355	30.0243	
Residual		2454469	40.0084	

VG Data Systems - Minichrom v1.66

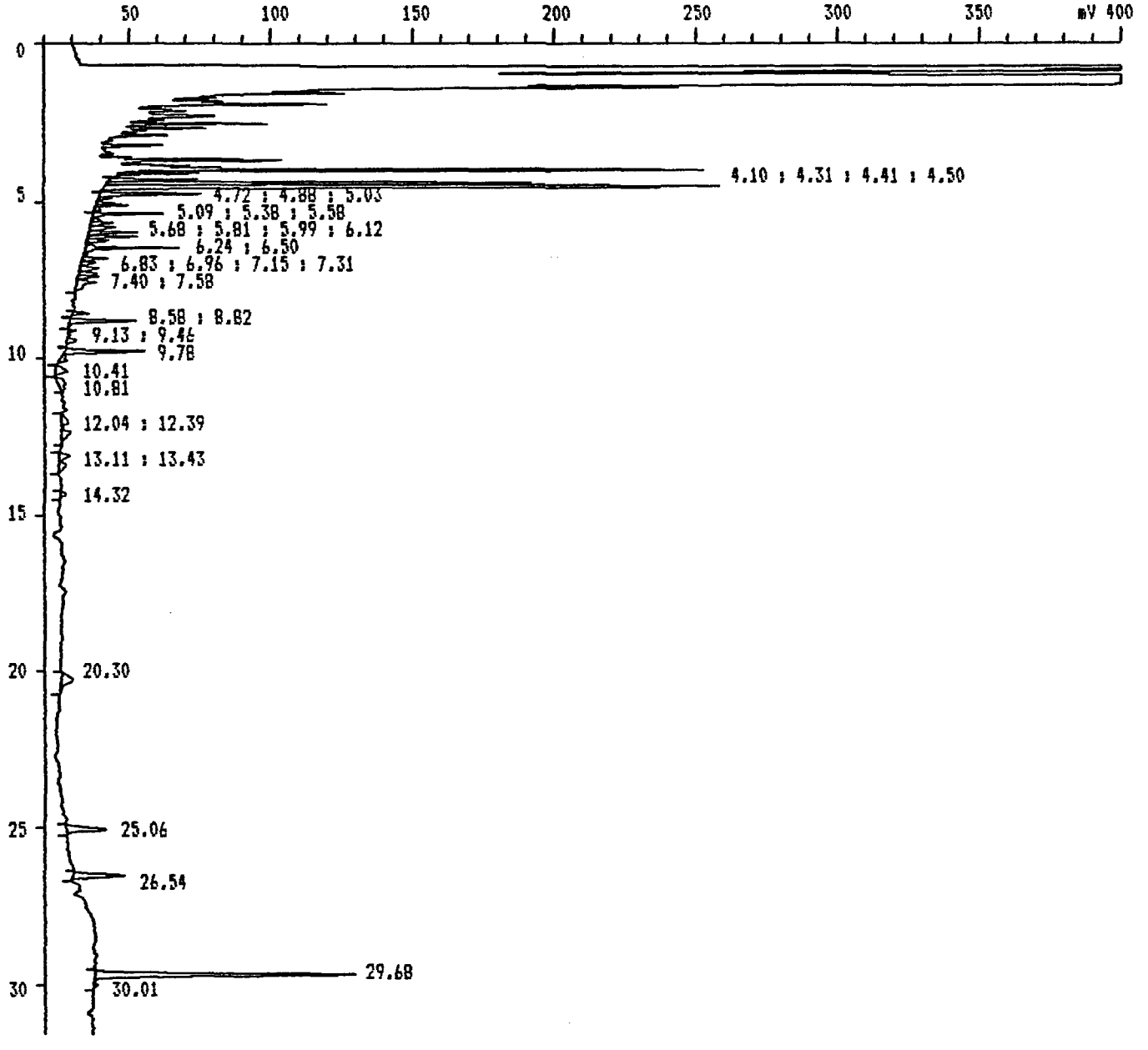
LONG PLOT

000669

Injection C: <PESTEPA> 3 0424aam,4,1

Sample name.....: 15411.01
Sample ID.....: FES00
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 11:56:29
Reported on 29-Apr-96 at 08:41:46



PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

000670

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Instrument ID: HP3F Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: RTX-35 ID: 0.53(mm) Date(s) Analyzed: 04/14/96 04/15/96

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	8.70	8.70	8.70	8.70	8.65	8.75
beta-BHC	9.94	9.95	9.94	9.94	9.89	9.99
delta-BHC	10.92	10.92	10.92	10.92	10.87	10.97
gamma-BHC (Lindane)	9.76	9.76	9.76	9.76	9.71	9.81
Heptachlor	10.85	10.85	10.85	10.85	10.80	10.90
Aldrin	11.76	11.76	11.76	11.76	11.71	11.81
Heptachlor epoxide	13.19	13.19	13.18	13.19	13.12	13.26
Endosulfan I	14.15	14.16	14.16	14.16	14.09	14.23
Dieldrin	14.92	14.92	14.92	14.92	14.85	14.99
4,4'-DDE	14.60	14.60	14.60	14.60	14.53	14.67
Endrin	15.80	15.81	15.80	15.80	15.73	15.87
Endosulfan II	16.25	16.25	16.24	16.25	16.18	16.32
4,4'-DDD	15.99	15.99	15.99	15.99	15.92	16.06
Endosulfan sulfate	17.52	17.52	17.51	17.52	17.45	17.59
4,4'-DDT	16.82	16.82	16.82	16.82	16.75	16.89
Methoxychlor	19.39	19.39	19.39	19.39	19.32	19.46
Endrin ketone	20.11	20.12	20.11	20.11	20.04	20.18
Endrin aldehyde	17.04	17.04	17.04	17.04	16.97	17.11
alpha Chlordane	14.08	14.08	14.08	14.08	14.01	14.15
gamma Chlordane	13.69	13.69	13.68	13.69	13.62	13.76
Tetrachloro-m-xylene	6.87	6.87	6.87	6.87	6.82	6.92
Decachlorobiphenyl	27.62	27.63	27.63	27.63	27.53	27.73

* Surrogate retention times are measured from Standard Mix A analyses

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

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

000671

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Instrument ID: HP2F Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-1701 ID: 0.53(mm) Date(s) Analyzed: 04/23/96 04/24/96

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC	6.32	6.32	6.32	6.32	6.27	6.37
beta-BHC	8.89	8.88	8.89	8.89	8.84	8.94
delta-BHC	9.68	9.68	9.69	9.68	9.63	9.73
gamma-BHC (Lindane)	7.13	7.13	7.13	7.13	7.08	7.18
Heptachlor	7.61	7.61	7.61	7.61	7.56	7.66
Aldrin	8.29	8.29	8.30	8.29	8.24	8.34
Heptachlor epoxide	10.35	10.34	10.35	10.35	10.28	10.42
Endosulfan I	11.43	11.44	11.44	11.44	11.37	11.51
Dieldrin	13.17	13.17	13.17	13.17	13.10	13.24
4,4'-DDE	12.39	12.38	12.39	12.39	12.32	12.46
Endrin	14.29	14.29	14.29	14.29	14.22	14.36
Endosulfan II	17.67	17.66	17.67	17.67	17.60	17.74
4,4'-DDD	17.45	17.46	17.46	17.46	17.39	17.53
Endosulfan sulfate	24.20	24.20	24.20	24.20	24.13	24.27
4,4'-DDT	18.89	18.90	18.89	18.89	18.82	18.96
Methoxychlor	24.73	24.73	24.73	24.73	24.66	24.80
Endrin ketone	26.24	26.23	26.24	26.24	26.17	26.31
Endrin aldehyde	21.44	21.44	21.44	21.44	21.37	21.51
alpha Chlordane	11.90	11.90	11.91	11.90	11.83	11.97
gamma Chlordane	11.65	11.65	11.66	11.65	11.58	11.72
Tetrachloro-m-xylene	4.50	4.51	4.51	4.51	4.46	4.56
Decachlorobiphenyl	29.67	29.67	29.67	29.67	29.57	29.77

* Surrogate retention times are measured from Standard Mix A analyses

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

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Instrument ID: HP3F Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: RTX-35 ID: 0.53(mm) Date(s) Analyzed: 04/14/96 04/15/96

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	5250000	6690000	6760000	6230000	13.7
beta-BHC	3140000	3390000	2870000	3130000	8.3
delta-BHC	3620000	5180000	5160000	4650000	19.2
gamma-BHC (Lindane)	4940000	6160000	6080000	5730000	11.9
Heptachlor	5810000	5390000	5230000	5480000	5.5
Aldrin	4230000	4990000	4860000	4690000	8.7
Heptachlor epoxide	4220000	4930000	4310000	4490000	8.6
Endosulfan I	4910000	4250000	4090000	4420000	9.8
Dieldrin	3690000	3960000	3910000	3850000	3.7
4,4'-DDE	3410000	3920000	3600000	3640000	7.1
Endrin	2970000	2990000	3000000	2990000	0.5
Endosulfan II	3550000	3670000	3240000	3490000	6.4
4,4'-DDD	2290000	2540000	2630000	2490000	7.1
Endosulfan sulfate	3450000	3370000	3070000	3300000	6.1
4,4'-DDT	2640000	2520000	2520000	2560000	2.7
Methoxychlor	1450000	1180000	973000	1200000	19.9
Endrin ketone	2950000	3610000	3350000	3300000	10.1
Endrin aldehyde	2770000	2660000	2390000	2610000	7.5
alpha Chlordane	4580000	5120000	4310000	4670000	8.8
gamma Chlordane	4470000	5150000	4500000	4710000	8.2
Tetrachloro-m-xylene	7050000	5210000	4660000	5640000	22.2
Decachlorobiphenyl	6180000	4890000	3860000	4980000	23.4

* Surrogate calibration factors are measured from Standard Mix A analyses

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

000673

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Instrument ID: HP2F Level (x low): low 1.0 mid 4.0 high 16.0

GC Column: DB-1701 ID: 0.53(mm) Date(s) Analyzed: 04/23/96 04/24/96

COMPOUND	CALIBRATION FACTORS LOW	MID	HIGH	MEAN	%RSD
alpha-BHC	10900000	12800000	13400000	12400000	10.6
beta-BHC	8060000	6810000	6390000	7090000	12.3
delta-BHC	7360000	9620000	11500000	9490000	21.8
gamma-BHC (Lindane)	10100000	12200000	12300000	11500000	10.8
Heptachlor	11700000	11600000	10900000	11400000	3.8
Aldrin	8580000	9740000	10300000	9540000	9.2
Heptachlor epoxide	10500000	10500000	10600000	10500000	0.5
Endosulfan I	9100000	9720000	10000000	9610000	4.8
Dieldrin	9000000	10100000	10400000	9830000	7.5
4,4'-DDE	7130000	8490000	9320000	8310000	13.3
Endrin	7510000	8310000	8700000	8170000	7.4
Endosulfan II	8050000	8680000	9130000	8620000	6.3
4,4'-DDD	5950000	7090000	8210000	7080000	16.0
Endosulfan sulfate	6550000	7140000	7640000	7110000	7.7
4,4'-DDT	5390000	6490000	7640000	6510000	17.3
Methoxychlor	3830000	3660000	3340000	3610000	6.9
Endrin ketone	5800000	6670000	7290000	6590000	11.4
Endrin aldehyde	5260000	5950000	7000000	6070000	14.4
alpha Chlordane	10400000	10700000	11100000	10700000	3.3
gamma Chlordane	10300000	10800000	11300000	10800000	4.6
Tetrachloro-m-xylene	11000000	10300000	9350000	10200000	8.1
Decachlorobiphenyl	8150000	7460000	6530000	7380000	11.0

* Surrogate calibration factors are measured from Standard Mix A analyses

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

000674

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Instrument ID: HP3F Date(s) Analyzed: 04/14/96 04/14/96

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	1.00	*1	16.42	16.35	16.49	191000
		*2	17.05	16.98	17.12	96300
		*3	17.37	17.30	17.44	148000
		4	18.90	18.83	18.97	175000
		5	19.12	19.05	19.19	146000
Aroclor 1016	0.200	*1	9.66	9.59	9.73	266000
		*2	10.74	10.67	10.81	542000
		*3	11.14	11.07	11.21	194000
		4	11.47	11.40	11.54	170000
		5	11.60	11.53	11.67	160000
Aroclor 1221	0.400	*1	7.91	7.84	7.98	80600
		*2	8.31	8.24	8.38	45000
		*3	8.49	8.42	8.56	141000
		4				
		5				
Aroclor 1232	0.200	*1	8.49	8.42	8.56	134000
		*2	9.66	9.59	9.73	157000
		*3	10.74	10.67	10.81	515000
		4	11.14	11.07	11.21	445000
		5	11.47	11.40	11.54	313000
Aroclor 1242	0.200	*1	8.49	8.42	8.56	109000
		*2	9.66	9.59	9.73	208000
		*3	10.74	10.67	10.81	367000
		4	12.40	12.33	12.47	188000
		5	13.19	13.12	13.26	182000
Aroclor 1248	0.200	*1	11.60	11.53	11.67	219000
		*2	12.40	12.33	12.47	260000
		*3	13.19	13.12	13.26	287000
		4	13.34	13.27	13.41	219000
		5	14.01	13.94	14.08	227000
Aroclor 1254	0.200	*1	13.74	13.67	13.81	329000
		*2	15.03	14.96	15.10	298000
		*3	15.42	15.35	15.49	392000
		4	15.80	15.73	15.87	195000
		5	16.87	16.80	16.94	204000
Aroclor 1260	0.200	*1	15.49	15.42	15.56	283000
		*2	15.80	15.73	15.87	343000
		*3	16.87	16.80	16.94	289000
		4	18.08	18.01	18.15	245000
		5	18.66	18.59	18.73	527000

* Denotes required peaks

6F

PESTICIDE INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

000675

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Instrument ID: HP2F Date(s) Analyzed: 04/23/96 04/23/96

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	1.00	*1	17.40	17.33	17.47	218000
		*2	17.86	17.79	17.93	121000
		*3	23.03	22.96	23.10	121000
		4	23.70	23.63	23.77	158000
		5	25.17	25.10	25.24	139000
Aroclor 1016	0.200	*1	5.68	5.61	5.75	253000
		*2	6.45	6.38	6.52	597000
		*3	7.39	7.32	7.46	1030000
		4	7.68	7.61	7.75	402000
		5	7.93	7.86	8.00	328000
Aroclor 1221	0.400	*1	5.25	5.18	5.32	135000
		*2	5.56	5.49	5.63	82600
		*3	5.69	5.62	5.76	284000
		4				
		5				
Aroclor 1232	0.200	*1	5.68	5.61	5.75	280000
		*2	6.45	6.38	6.52	263000
		*3	7.39	7.32	7.46	381000
		4	8.20	8.13	8.27	249000
		5	8.83	8.76	8.90	226000
Aroclor 1242	0.200	*1	6.45	6.38	6.52	554000
		*2	7.40	7.33	7.47	819000
		*3	8.84	8.77	8.91	474000
		4	9.49	9.42	9.56	1480000
		5	10.09	10.02	10.16	1810000
Aroclor 1248	0.200	*1	8.82	8.75	8.89	653000
		*2	9.10	9.03	9.17	714000
		*3	9.48	9.41	9.55	874000
		4	9.76	9.69	9.83	1060000
		5	10.08	10.01	10.15	1990000
Aroclor 1254	0.200	*1	10.07	10.00	10.14	687000
		*2	10.75	10.68	10.82	754000
		*3	12.74	12.67	12.81	830000
		4	14.12	14.05	14.19	478000
		5	14.93	14.86	15.00	308000
Aroclor 1260	0.200	*1	13.55	13.48	13.62	722000
		*2	14.96	14.89	15.03	1460000
		*3	17.44	17.37	17.51	904000
		4	23.47	23.40	23.54	1030000
		5	25.56	25.49	25.63	633000

* Denotes required peaks

6G

PESTICIDE ANALYTE RESOLUTION SUMMARY

000676

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24519 SAS No.: SDG No.: FER94

GC Column (1): RTX-35 ID: 0.53(mm) Instrument ID (1): HP3F

EPA Sample No. (Standard 1): RESC1F Lab Sample ID (1): EPA1-8-A1F

Date Analyzed (1): 04/14/96 Time Analyzed (1): 1306

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.87	100.0
02	gamma-Chlordane	13.69	100.0
03	Endosulfan I	14.15	100.0
04	4,4'-DDE	14.60	100.0
05	Dieldrin	14.92	100.0
06	Endosulfan sulfate	17.52	100.0
07	Methoxychlor	19.39	100.0
08	Endrin ketone	20.11	100.0
09	Decachlorobiphenyl	27.62	

PESTICIDE ANALYTE RESOLUTION SUMMARY

000677

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER94

GC Column (2 nd 4/29/96): DB-1701 ID: 0.53(mm) Instrument ID (2 pr 4/29/96): HP2F

EPA Sample No. (Standard 2): RESCF1 Lab Sample ID (2): EPA1-8-AF1

Date Analyzed (1): 04/23/96 Time Analyzed (2): 1507

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.50	100.0
02	Endosulfan I	11.45	93.0
03	gamma-Chlordane	11.67	100.0
04	4,4'-DDE	12.40	100.0
05	Dieldrin	13.19	100.0
06	Endosulfan sulfate	24.23	100.0
07	Methoxychlor	24.75	100.0
08	Endrin ketone	26.25	100.0
09	Decachlorobiphenyl	29.69	

6H

PERFORMANCE EVALUATION MIXTURE (PEM)

000678

Lab Name: AATSLA Contract: 68-D5-0033

Lab Code: AATSLA Case No.: 24510 SAS No.: SDG No.: FER94

GC Column (1): RTX-35 ID: 0.53(mm) Instrument ID (1): HP3F

EPA Sample No. (Standard 1): PEM1F Lab Sample ID (1): EPA1-9-A1F

Date Analyzed (1): 04/14/96 Time Analyzed (1): 1342

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.87	100.0
02	alpha-BHC	8.70	100.0
03	gamma-BHC (Lindane)	9.76	97.0
04	beta-BHC	9.94	100.0
05	Endrin	15.80	100.0
06	4,4'-DDT	16.81	100.0
07	Methoxychlor	19.39	100.0
08	Decachlorobiphenyl	27.62	

for 4/30/96

GC Column (2): RTX-35 ID: 0.53(mm) Instrument ID (2): HP3F

EPA Sample No. (Standard 2): PEM2F Lab Sample ID (2): EPA1-9-A2F

Date Analyzed (2): 04/15/96 Time Analyzed (2): 0417

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.86	100.0
02	alpha-BHC	8.69	100.0
03	gamma-BHC (Lindane)	9.75	94.0
04	beta-BHC	9.94	100.0
05	Endrin	15.80	100.0
06	4,4'-DDT	16.81	100.0
07	Methoxychlor	19.38	100.0
08	Decachlorobiphenyl	27.60	100.0

6H

PERFORMANCE EVALUATION MIXTURE (PEM)

000679

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24519 SAS No.: SDG No.: FER94

GC Column (2): DB-1701 ID: 0.53(mm) Instrument ID (2): HP2F 4/30/96

EPA Sample No. (Standard 1): PEMF1 Lab Sample ID (2): EPA1-9-AF1

Date Analyzed (2): 04/23/96 Time Analyzed (2): 1624

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.50	100.0
02	alpha-BHC	6.32	100.0
03	gamma-BHC (Lindane)	7.13	100.0
04	beta-BHC	8.90	100.0
05	Endrin	14.32	100.0
06	4,4'-DDT	18.94	100.0
07	Methoxychlor	24.75	100.0
08	Decachlorobiphenyl	29.69	100.0

GC Column (2): DB-1701 ID: 0.53(mm) Instrument ID (2): HP2F

EPA Sample No. (Standard 2): PEMF2 Lab Sample ID (2): EPA1-9-AF2

Date Analyzed (2): 04/24/96 Time Analyzed (2): 1001

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.51	100.0
02	alpha-BHC	6.32	100.0
03	gamma-BHC (Lindane)	7.14	100.0
04	beta-BHC	8.90	100.0
05	Endrin	14.31	100.0
06	4,4'-DDT	18.92	100.0
07	Methoxychlor	24.74	100.0
08	Decachlorobiphenyl	29.68	100.0

INDIVIDUAL STANDARD MIXTURE A

Lab Name: AATSLA Contract: 68-DS-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER94

GC Column (1): RTX-35 ID: 0.53(mm) Instrument ID (1): HP3F

EPA Sample No. (Standard 1): INDAM1F Lab Sample ID (1): EPA1-12-A1F

Date Analyzed (1): 04/14/96 Time Analyzed (1): 2212

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.87	100.0
02	alpha-BHC	8.70	100.0
03	gamma-BHC (Lindane)	9.76	100.0
04	Heptachlor	10.85	100.0
05	Endosulfan I	14.16	100.0
06	Dieldrin	14.92	100.0
07	Endrin	15.81	97.0
08	4,4'-DDD	15.99	100.0
09	4,4'-DDT	16.82	100.0
10	Methoxychlor	19.39	100.0
11	Decachlorobiphenyl	27.63	100.0

NR 4/29/96

GC Column (2): RTX-35 ID: 0.53(mm) Instrument ID (2): HP3F

EPA Sample No. (Standard 2): INDAM2F Lab Sample ID (2): EPA1-12-A2F

Date Analyzed (2): 04/15/96 Time Analyzed (2): 0908

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.86	100.0
02	alpha-BHC	8.69	100.0
03	gamma-BHC (Lindane)	9.75	100.0
04	Heptachlor	10.84	100.0
05	Endosulfan I	14.14	100.0
06	Dieldrin	14.91	100.0
07	Endrin	15.79	96.0
08	4,4'-DDD	15.98	100.0
09	4,4'-DDT	16.80	100.0
10	Methoxychlor	19.37	100.0
11	Decachlorobiphenyl	27.58	100.0

INDIVIDUAL STANDARD MIXTURE A

000681

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24512 SAS No.: SDG No.: FER94

GC Column (~~1~~ 2): DB-1701 ID: 0.53(mm) Instrument ID (~~1~~ 2): HP2F

EPA Sample No. (Standard 1): INDAMF1 Lab Sample ID (~~1~~ 2): EPA1-12-AF1

Date Analyzed (~~1~~ 2): 04/24/96 Time Analyzed (~~1~~ 2): 0041

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.51	100.0
02	alpha-BHC	6.32	100.0
03	gamma-BHC (Lindane)	7.13	100.0
04	Heptachlor	7.61	100.0
05	Endosulfan I	11.44	100.0
06	Dieldrin	13.17	100.0
07	Endrin	14.29	100.0
08	4,4'-DDD	17.46	100.0
09	4,4'-DDT	18.90	100.0
10	Methoxychlor	24.73	100.0
11	Decachlorobiphenyl	29.67	100.0

GC Column (2): DB-1701 ID: 0.53(mm) Instrument ID (2): HP2F

EPA Sample No. (Standard 2): INDAMF2 Lab Sample ID (2): EPA1-12-AF2

Date Analyzed (2): 04/24/96 Time Analyzed (2): 1842

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.51	100.0
02	alpha-BHC	6.32	100.0
03	gamma-BHC (Lindane)	7.14	100.0
04	Heptachlor	7.62	100.0
05	Endosulfan I	11.44	100.0
06	Dieldrin	13.18	100.0
07	Endrin	14.31	100.0
08	4,4'-DDD	17.47	100.0
09	4,4'-DDT	18.92	100.0
10	Methoxychlor	24.74	100.0
11	Decachlorobiphenyl	29.68	100.0

6J

INDIVIDUAL STANDARD MIXTURE B

000682

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER94

GC Column (1): RTX-35 ID: 0.53(mm) Instrument ID (1): HP3F

EPA Sample No. (Standard 1): INDBM1F Lab Sample ID (1): EPA1-16-A1F

Date Analyzed (1): 04/14/96 Time Analyzed (1): 2325

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.87	100.0
02	beta-BHC	9.95	100.0
03	delta-BHC	10.92	100.0
04	Aldrin	11.76	100.0
05	Heptachlor epoxide	13.19	100.0
06	gamma-Chlordane	13.69	100.0
07	alpha-Chlordane	14.08	100.0
08	4,4'-DDE	14.60	100.0
09	Endosulfan II	16.25	100.0
10	Endrin aldehyde	17.04	100.0
11	Endosulfan sulfate	17.52	100.0
12	Endrin ketone	20.12	100.0
13	Decachlorobiphenyl	27.63	100.0

nb 4/29/96

GC Column (2): RTX-35 ID: 0.53(mm) Instrument ID (2): HP3F

EPA Sample No. (Standard 2): INDBM2F Lab Sample ID (2): EPA1-16-A2F

Date Analyzed (2): 04/15/96 Time Analyzed (2): 1021

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	6.86	100.0
02	beta-BHC	9.93	100.0
03	delta-BHC	10.91	100.0
04	Aldrin	11.75	100.0
05	Heptachlor epoxide	13.17	100.0
06	gamma-Chlordane	13.67	100.0
07	alpha-Chlordane	14.07	100.0
08	4,4'-DDE	14.59	100.0
09	Endosulfan II	16.23	100.0
10	Endrin aldehyde	17.02	100.0
11	Endosulfan sulfate	17.50	100.0
12	Endrin ketone	20.09	100.0
13	Decachlorobiphenyl	27.58	100.0

INDIVIDUAL STANDARD MIXTURE B

000683

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: SDG No.: FER94

GC Column (1): DB-1701 ID: 0.53(mm) Instrument ID (1): HP2F

EPA Sample No. (Standard 1): INDBMF1 Lab Sample ID (1): EPA1-16-AF1

Date Analyzed (1): 04/24/96 Time Analyzed (1): 0158

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.50	100.0
02	Aldrin	8.29	100.0
03	beta-BHC	8.88	100.0
04	delta-BHC	9.68	100.0
05	Heptachlor epoxide	10.34	100.0
06	gamma-Chlordane	11.65	97.0
07	alpha-Chlordane	11.90	100.0
08	4,4'-DDE	12.38	100.0
09	Endosulfan II	17.66	100.0
10	Endrin aldehyde	21.44	100.0
11	Endosulfan sulfate	24.20	100.0
12	Endrin ketone	26.23	100.0
13	Decachlorobiphenyl	29.67	100.0

GC Column (2): DB-1701 ID: 0.53(mm) Instrument ID (2): HP2F

EPA Sample No. (Standard 2): INDBMF2 Lab Sample ID (2): EPA1-16-AF2

Date Analyzed (2): 04/24/96 Time Analyzed (2): 1958

	ANALYTE	RT	RESOLUTION (%)
01	Tetrachloro-m-xylene	4.49	100.0
02	Aldrin	8.28	100.0
03	beta-BHC	8.88	100.0
04	delta-BHC	9.68	100.0
05	Heptachlor epoxide	10.34	100.0
06	gamma-Chlordane	11.64	100.0
07	alpha-Chlordane	11.89	100.0
08	4,4'-DDE	12.38	100.0
09	Endosulfan II	17.66	100.0
10	Endrin aldehyde	21.43	100.0
11	Endosulfan sulfate	24.19	100.0
12	Endrin ketone	26.23	100.0
13	Decachlorobiphenyl	29.66	100.0

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK0F Date Analyzed : 04/14/96

Lab Sample ID (PIBLK): EPA1-7-A0F Time Analyzed : 1300

EPA Sample No. (PEM): PEM1F Date Analyzed : 04/14/96

Lab Sample ID (PEM): EPA1-9-A1F Time Analyzed : 1342

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.70	8.65	8.75	0.019	0.020	-5.0
beta-BHC	9.94	9.89	9.99	0.019	0.020	-5.0
gamma-BHC (Lindane)	9.76	9.71	9.81	0.019	0.020	-5.0
Endrin	15.80	15.73	15.87	0.110	0.100	10.0
4,4'-DDT	16.81	16.75	16.89	0.241	0.200	20.5
Methoxychlor	19.39	19.32	19.46	0.593	0.500	18.6

4,4'-DDT % breakdown (1): 1.7 Endrin % breakdown (1): 0.0

Combined % breakdown (1): 1.7

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK1F Date Analyzed : 04/15/96

Lab Sample ID (PIBLK): EPA1-7-A1F Time Analyzed : 0304

EPA Sample No. (PEM): PEM2F Date Analyzed : 04/15/96

Lab Sample ID (PEM): EPA1-9-A2F Time Analyzed : 0417

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.69	8.65	8.75	0.018	0.020	-10.0
beta-BHC	9.94	9.89	9.99	0.019	0.020	-5.0
gamma-BHC (Lindane)	9.75	9.71	9.81	0.020	0.020	0.0
Endrin	15.80	15.73	15.87	0.105	0.100	5.0
4,4'-DDT	16.81	16.75	16.89	0.218	0.200	9.0
Methoxychlor	19.38	19.32	19.46	0.593	0.500	18.6

4,4'-DDT % breakdown (1): 0.6 Endrin % breakdown (1): 0.0

Combined % breakdown (1): 0.6

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

000686

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK3F Date Analyzed : 04/15/96

Lab Sample ID (PIBLK): EPA1-7-A3F Time Analyzed : 1947

EPA Sample No. (PEM): PEM3F Date Analyzed : 04/15/96

Lab Sample ID (PEM): EPA1-9-A3F Time Analyzed : 2058

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.68	8.65	8.75	0.018	0.020	-10.0
beta-BHC	9.93	9.89	9.99	0.018	0.020	-10.0
gamma-BHC (Lindane)	9.75	9.71	9.81	0.020	0.020	0.0
Endrin	15.79	15.73	15.87	0.104	0.100	4.0
4,4'-DDT	16.80	16.75	16.89	0.206	0.200	3.0
Methoxychlor	19.36	19.32	19.46	0.498	0.500	-0.4

4,4'-DDT % breakdown (1): 1.0 Endrin % breakdown (1): 0.0

Combined % breakdown (1): 1.0

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK5F Date Analyzed : 04/16/96

Lab Sample ID (PIBLK): EPA1-7-A5F Time Analyzed : 1443

EPA Sample No. (PEM): PEM4F Date Analyzed : 04/16/96

Lab Sample ID (PEM): EPA1-9-A4F Time Analyzed : 1554

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.68	8.65	8.75	0.019	0.020	-5.0
beta-BHC	9.93	9.89	9.99	0.017	0.020	-15.0
gamma-BHC (Lindane)	9.74	9.71	9.81	0.018	0.020	-10.0
Endrin	15.78	15.73	15.87	0.106	0.100	6.0
4,4'-DDT	16.79	16.75	16.89	0.224	0.200	12.0
Methoxychlor	19.36	19.32	19.46	0.594	0.500	18.8

4,4'-DDT % breakdown (1): 1.0 Endrin % breakdown (1): 0.0

Combined % breakdown (1): 1.0

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: DB-1701 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

EPA Sample No. (PIBLK): PIBLKF0 Date Analyzed : 04/23/96

Lab Sample ID (PIBLK): EPA1-7-AF0 Time Analyzed : 1500

EPA Sample No. (PEM): PEMF1 Date Analyzed : 04/23/96

Lab Sample ID (PEM): EPA1-9-AF1 Time Analyzed : 1624

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	6.32	6.27	6.37	0.018	0.020	-10.0
beta-BHC	8.90	8.84	8.94	0.021	0.020	5.0
gamma-BHC (Lindane)	7.13	7.08	7.18	0.018	0.020	-10.0
Endrin	14.32	14.22	14.36	0.096	0.100	-4.0
4,4'-DDT	18.94	18.82	18.96	0.202	0.200	1.0
Methoxychlor	24.75	24.66	24.80	0.438	0.500	-12.4

4,4'-DDT % breakdown (1): 3.2 Endrin % breakdown (1): 2.7

Combined % breakdown (1): 5.9

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: DB-1701 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

EPA Sample No. (PIBLK): PIBLKF1 Date Analyzed : 04/24/96

Lab Sample ID (PIBLK): EPA1-7-AF1 Time Analyzed : 0625

EPA Sample No. (PEM): PEMF2 Date Analyzed : 04/24/96

Lab Sample ID (PEM): EPA1-9-AF2 Time Analyzed : 1001

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	6.32	6.27	6.37	0.017	0.020	-15.0
beta-BHC	8.90	8.84	8.94	0.022	0.020	10.0
gamma-BHC (Lindane)	7.14	7.08	7.18	0.018	0.020	-10.0
Endrin	14.31	14.22	14.36	0.099	0.100	-1.0
4,4'-DDT	18.92	18.82	18.96	0.222	0.200	11.0
Methoxychlor	24.74	24.66	24.80	0.501	0.500	0.2

4,4'-DDT % breakdown (1): 0.0 Endrin % breakdown (1): 2.7

Combined % breakdown (1): 2.7

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: DB-1701 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

EPA Sample No. (PIBLK): PIBLKF3 Date Analyzed : 04/25/96

Lab Sample ID (PIBLK): EPA1-7-AF3 Time Analyzed : 0027

EPA Sample No. (PEM): PEMF3 Date Analyzed : 04/25/96

Lab Sample ID (PEM): EPA1-9-AF3 Time Analyzed : 0143

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	6.31	6.27	6.37	0.017	0.020	-15.0
beta-BHC	8.88	8.84	8.94	0.022	0.020	10.0
gamma-BHC (Lindane)	7.12	7.08	7.18	0.018	0.020	-10.0
Endrin	14.28	14.22	14.36	0.097	0.100	-3.0
4,4'-DDT	18.87	18.82	18.96	0.207	0.200	3.5
Methoxychlor	24.71	24.66	24.80	0.462	0.500	-7.6

4,4'-DDT % breakdown (1): 2.6 Endrin % breakdown (1): 3.5

Combined % breakdown (1): 6.1

PESTICIDE CALIBRATION VERIFICATION SUMMARY

000691

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK2F Date Analyzed : 04/15/96

Lab Sample ID (PIBLK): EPA1-7-A2F Time Analyzed : 0755

EPA Sample No. (INDA): INDAM2F Date Analyzed : 04/15/96

Lab Sample ID (INDA): EPA1-12-A2F Time Analyzed : 0908

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.69	8.65	8.75	0.0386	0.0400	-3.5
gamma-BHC (Lindane)	9.75	9.71	9.81	0.0402	0.0400	0.5
Heptachlor	10.84	10.80	10.90	0.0406	0.0400	1.5
Endosulfan I	14.14	14.09	14.23	0.0390	0.0400	-2.5
Dieldrin	14.91	14.85	14.99	0.0803	0.0800	0.4
Endrin	15.79	15.73	15.87	0.0889	0.0800	11.1
4,4'-DDD	15.98	15.92	16.06	0.0769	0.0800	-3.9
4,4'-DDT	16.80	16.75	16.89	0.0779	0.0800	-2.6
Methoxychlor	19.37	19.32	19.46	0.404	0.400	1.0
Tetrachloro-m-xylene	6.86	6.82	6.92	0.0396	0.0400	-1.0
Decachlorobiphenyl	27.58	27.53	27.73	0.0792	0.0800	-1.0

EPA Sample No. (INDB): INDBM2F Date Analyzed : 04/15/96

Lab Sample ID (INDB): EPA1-16-A2F Time Analyzed : 1021

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	9.93	9.89	9.99	0.0405	0.0400	1.2
delta-BHC	10.91	10.87	10.97	0.0418	0.0400	4.5
Aldrin	11.75	11.71	11.81	0.0409	0.0400	2.2
Heptachlor epoxide	13.17	13.12	13.26	0.0412	0.0400	3.0
4,4'-DDE	14.59	14.53	14.67	0.0930	0.0800	16.2
Endosulfan II	16.23	16.18	16.32	0.0827	0.0800	3.4
Endosulfan sulfate	17.50	17.45	17.59	0.0853	0.0800	6.6
Endrin ketone	20.09	20.04	20.18	0.0832	0.0800	4.0
Endrin aldehyde	17.02	16.97	17.11	0.0873	0.0800	9.1
alpha-Chlordane	14.07	14.01	14.15	0.0387	0.0400	-3.2
gamma-Chlordane	13.67	13.62	13.76	0.0393	0.0400	-1.8
Tetrachloro-m-xylene	6.86	6.82	6.92	0.0428	0.0400	7.0
Decachlorobiphenyl	27.58	27.53	27.73	0.0906	0.0800	13.2

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

000692

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

EPA Sample No. (PIBLK): PIBLK4F Date Analyzed : 04/16/96

Lab Sample ID (PIBLK): EPA1-7-A4F Time Analyzed : 0515

EPA Sample No. (INDA): INDAM3F Date Analyzed : 04/16/96

Lab Sample ID (INDA): EPA1-12-A3F Time Analyzed : 0550

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	8.68	8.65	8.75	0.0373	0.0400	-6.8
gamma-BHC (Lindane)	9.74	9.71	9.81	0.0378	0.0400	-5.5
Heptachlor	10.83	10.80	10.90	0.0415	0.0400	3.8
Endosulfan I	14.13	14.09	14.23	0.0410	0.0400	2.5
Dieldrin	14.90	14.85	14.99	0.0792	0.0800	-1.0
Endrin	15.78	15.73	15.87	0.0831	0.0800	3.9
4,4'-DDD	15.97	15.92	16.06	0.0814	0.0800	1.8
4,4'-DDT	16.79	16.75	16.89	0.0894	0.0800	11.8
Methoxychlor	19.36	19.32	19.46	0.477	0.400	19.2
Tetrachloro-m-xylene	6.85	6.82	6.92	0.0392	0.0400	-2.0
Decachlorobiphenyl	27.55	27.53	27.73	0.0780	0.0800	-2.5

EPA Sample No. (INDB): INDBM3F Date Analyzed : 04/16/96

Lab Sample ID (INDB): EPA1-16-A3F Time Analyzed : 0702

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	9.93	9.89	9.99	0.0403	0.0400	0.8
delta-BHC	10.90	10.87	10.97	0.0416	0.0400	4.0
Aldrin	11.74	11.71	11.81	0.0428	0.0400	7.0
Heptachlor epoxide	13.17	13.12	13.26	0.0403	0.0400	0.8
4,4'-DDE	14.58	14.53	14.67	0.0828	0.0800	3.5
Endosulfan II	16.23	16.18	16.32	0.0816	0.0800	2.0
Endosulfan sulfate	17.49	17.45	17.59	0.0896	0.0800	12.0
Endrin ketone	20.08	20.04	20.18	0.0850	0.0800	6.2
Endrin aldehyde	17.02	16.97	17.11	0.0906	0.0800	13.2
alpha-Chlordane	14.06	14.01	14.15	0.0393	0.0400	-1.8
gamma-Chlordane	13.67	13.62	13.76	0.0400	0.0400	0.0
Tetrachloro-m-xylene	6.85	6.82	6.92	0.0415	0.0400	3.8
Decachlorobiphenyl	27.56	27.53	27.73	0.0846	0.0800	5.8

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

000693

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: DB-1701 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

EPA Sample No. (PIBLK): PIBLKF2 Date Analyzed : 04/24/96

Lab Sample ID (PIBLK): EPA1-7-AF2 Time Analyzed : 1725

EPA Sample No. (INDA): INDAMF2 Date Analyzed : 04/24/96

Lab Sample ID (INDA): EPA1-12-AF2 Time Analyzed : 1842

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	6.32	6.27	6.37	0.0408	0.0400	2.0
gamma-BHC (Lindane)	7.14	7.08	7.18	0.0409	0.0400	2.2
Heptachlor	7.62	7.56	7.66	0.0411	0.0400	2.8
Endosulfan I	11.44	11.37	11.51	0.0427	0.0400	6.8
Dieldrin	13.18	13.10	13.24	0.0826	0.0800	3.2
Endrin	14.31	14.22	14.36	0.0841	0.0800	5.1
4,4'-DDD	17.47	17.39	17.53	0.0828	0.0800	3.5
4,4'-DDT	18.92	18.82	18.96	0.0855	0.0800	6.9
Methoxychlor	24.74	24.66	24.80	0.418	0.400	4.5
Tetrachloro-m-xylene	4.51	4.46	4.56	0.00403	0.0400	-89.9
Decachlorobiphenyl	29.68	29.57	29.77	0.0844	0.0800	5.5

EPA Sample No. (INDB): INDBMF2 Date Analyzed : 04/24/96

Lab Sample ID (INDB): EPA1-16-AF2 Time Analyzed : 1958

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	8.88	8.84	8.94	0.0427	0.0400	6.8
delta-BHC	9.68	9.63	9.73	0.0439	0.0400	9.8
Aldrin	8.28	8.24	8.34	0.0428	0.0400	7.0
Heptachlor epoxide	10.34	10.28	10.42	0.0430	0.0400	7.5
4,4'-DDE	12.38	12.32	12.46	0.0854	0.0800	6.8
Endosulfan II	17.66	17.60	17.74	0.0886	0.0800	10.8
Endosulfan sulfate	24.19	24.13	24.27	0.0875	0.0800	9.4
Endrin ketone	26.23	26.17	26.31	0.0898	0.0800	12.2
Endrin aldehyde	21.43	21.37	21.51	0.0759	0.0800	-5.1
alpha-Chlordane	11.89	11.83	11.97	0.0435	0.0400	8.8
gamma-Chlordane	11.64	11.58	11.72	0.0435	0.0400	8.8
Tetrachloro-m-xylene	4.49	4.46	4.56	0.0401	0.0400	0.2
Decachlorobiphenyl	29.66	29.57	29.77	0.0796	0.0800	-0.5

7E

PESTICIDE CALIBRATION VERIFICATION SUMMARY

000694

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: DB-1701 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

EPA Sample No. (PIBLK): PIBLKF4 Date Analyzed : 04/25/96

Lab Sample ID (PIBLK): EPA1-7-AF4 Time Analyzed : 0922

EPA Sample No. (INDA): INDAMF3 Date Analyzed : 04/25/96

Lab Sample ID (INDA): EPA1-12-AF3 Time Analyzed : 1039

INDIVIDUAL MIX A COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	6.32	6.27	6.37	0.0382	0.0400	-4.5
gamma-BHC (Lindane)	7.13	7.08	7.18	0.0382	0.0400	-4.5
Heptachlor	7.61	7.56	7.66	0.0384	0.0400	-4.0
Endosulfan I	11.44	11.37	11.51	0.0402	0.0400	0.5
Dieldrin	13.17	13.10	13.24	0.0774	0.0800	-3.2
Endrin	14.30	14.22	14.36	0.0771	0.0800	-3.6
4,4'-DDD	17.46	17.39	17.53	0.0785	0.0800	-1.9
4,4'-DDT	18.91	18.82	18.96	0.0784	0.0800	-2.0
Methoxychlor	24.73	24.66	24.80	0.391	0.400	-2.2
Tetrachloro-m-xylene	4.50	4.46	4.56	0.0430	0.0400	7.5
Decachlorobiphenyl	29.68	29.57	29.77	0.0810	0.0800	1.2

EPA Sample No. (INDB): INDBMF3 Date Analyzed : 04/25/96

Lab Sample ID (INDB): EPA1-16-AF3 Time Analyzed : 1155

INDIVIDUAL MIX B COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
beta-BHC	8.88	8.84	8.94	0.0396	0.0400	-1.0
delta-BHC	9.68	9.63	9.73	0.0405	0.0400	1.2
Aldrin	8.29	8.24	8.34	0.0404	0.0400	1.0
Heptachlor epoxide	10.34	10.28	10.42	0.0415	0.0400	3.8
4,4'-DDE	12.38	12.32	12.46	0.0809	0.0800	1.1
Endosulfan II	17.67	17.60	17.74	0.0854	0.0800	6.8
Endosulfan sulfate	24.20	24.13	24.27	0.0853	0.0800	6.6
Endrin ketone	26.24	26.17	26.31	0.0883	0.0800	10.4
Endrin aldehyde	21.44	21.37	21.51	0.0736	0.0800	-8.0
alpha-Chlordane	11.90	11.83	11.97	0.0416	0.0400	4.0
gamma-Chlordane	11.65	11.58	11.72	0.0414	0.0400	3.5
Tetrachloro-m-xylene	4.49	4.46	4.56	0.0415	0.0400	3.8
Decachlorobiphenyl	29.67	29.57	29.77	0.0797	0.0800	-0.4

8D

PESTICIDE ANALYTICAL SEQUENCE

000695

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

Instrument ID: HP3F

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.87 DCB: 27.63

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
~~01~~	~~PIBLK0F~~	~~EPA1-7-A0F~~	~~04/14/96~~	~~1300~~	~~6.87~~	~~27.62~~
02	RESC1F	EPA1-8-A1F	04/14/96	1306	6.87	27.62
03	PEM1F	EPA1-9-A1F	04/14/96	1342	6.87	27.62
04	AR16601F	EPA1-20-A1F	04/14/96	1455	6.87	27.62
05	AR12211F	EPA1-22-A1F	04/14/96	1532	6.87	27.62
06	AR12321F	EPA1-24-A1F	04/14/96	1608	6.87	27.62
07	AR12421F	EPA1-26-A1F	04/14/96	1644	6.87	27.62
08	AR12481F	EPA1-28-A1F	04/14/96	1721	6.87	27.62
09	AR12541F	EPA1-30-A1F	04/14/96	1757	6.87	27.62
10	TOXAPH1F	EPA1-32-A1F	04/14/96	1834	6.87	27.62
11	INDAL1F	EPA1-11-A1F	04/14/96	1910	6.87	27.62
12	INDBL1F	EPA1-15-A1F	04/14/96	2059	6.87	27.63
13	INDAM1F	EPA1-12-A1F	04/14/96	2212	6.87	27.63
14	INDBM1F	EPA1-16-A1F	04/14/96	2325	6.87	27.63
15	INDAH1F	EPA1-13-A1F	04/15/96	0002	6.87	27.63
16	INDBH1F	EPA1-17-A1F	04/15/96	0151	6.86	27.61
17	PIBLK1F	EPA1-7-A1F	04/15/96	0304	6.86	27.60
18	PEM2F	EPA1-9-A2F	04/15/96	0417	6.86	27.60
19	PIBLK2F	EPA1-7-A2F	04/15/96	0755	6.86	27.58
20	INDAM2F	EPA1-12-A2F	04/15/96	0908	6.86	27.58
21	INDBM2F	EPA1-16-A2F	04/15/96	1021	6.86	27.58
22	ZZZZZ	032896G	04/15/96	1503	6.86	27.58
23	PBLK2	033096H	04/15/96	1614	6.86	27.57
24	ZZZZZ	15410_01	04/15/96	1649	6.86	27.56
25	ZZZZZ	15410_02MS	04/15/96	1725	6.85	27.56
26	ZZZZZ	15410_03MSD	04/15/96	1800	6.86	27.57
27	ZZZZZ	15410_04	04/15/96	1836	6.86	27.57
28	ZZZZZ	15410_05	04/15/96	1911	6.85	27.57
29	PIBLK3F	EPA1-7-A3F	04/15/96	1947	6.85	27.57
30	PEM3F	EPA1-9-A3F	04/15/96	2058	6.85	27.56
31	ZZZZZ	15410_06	04/15/96	2209	6.85	27.56
32	ZZZZZ	15410_07	04/15/96	2244	6.85	27.57

nf 4/29/96

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8D

PESTICIDE ANALYTICAL SEQUENCE

000696

Lab Name: AATSLA Contract: 68-D5-0023

Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: RTX-35 ID: 0.53(mm) Init. Calib. Date(s): 04/14/96 04/15/96

Instrument ID: HP3F

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.87 DCB: 27.63

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	FES00	15411_01	04/15/96	2320	6.85	27.56
02	FER94	15411_02	04/15/96	2355	6.85	27.56
03	FER95	15411_03	04/16/96	0031	6.85	27.56
04	FER97	15411_04	04/16/96	0106	6.85	27.56
05	FER98	15411_05	04/16/96	0142	6.85	27.56
06	FER99	15411_06	04/16/96	0217	6.85	27.56
07	FER99MS	15411_07MS	04/16/96	0253	6.85	27.56
08	FER99MSD	15411_08MSD	04/16/96	0328	6.85	27.56
09	PIBLK4F	EPA1-7-A4F	04/16/96	0515	6.85	27.56
10	INDAM3F	EPA1-12-A3F	04/16/96	0550	6.85	27.55
11	INDBM3F	EPA1-16-A3F	04/16/96	0702	6.85	27.56
12	FER34	15427_01	04/16/96	0813	6.85	27.56
13	FER35	15427_02	04/16/96	0848	6.85	27.56
14	FER39	15427_03	04/16/96	0923	6.85	27.56
15	FER41	15427_05	04/16/96	0959	6.85	27.55
16	FER91	15427_07	04/16/96	1034	6.85	27.55
17	FER92	15427_08	04/16/96	1110	6.85	27.54
18	FER93	15427_09	04/16/96	1145	6.85	27.55
19	FER90	15427_06	04/16/96	1221	6.85	27.55
20	FER40	15427_04	04/16/96	1256	6.85	27.55
21	PIBLK5F	EPA1-7-A5F	04/16/96	1443	6.85	27.55
22	PEM4F	EPA1-9-A4F	04/16/96	1554	6.85	27.55

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8D
PESTICIDE ANALYTICAL SEQUENCE

000697

Lab Name: AATSLA Contract: 68-D5-0023

Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: DB-1701 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

Instrument ID: HP2F

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.51 DCB: 29.67

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
~~01~~	~~PIBLKF0~~	~~EPA1-7-AF0~~	~~04/23/96~~	~~1500~~	~~4.50~~	~~29.69~~
02	RESCF1	EPA1-8-AF1	04/23/96	1507	4.50	29.69
03	PEMF1	EPA1-9-AF1	04/23/96	1624	4.50	29.69
04	AR1660F1	EPA1-20-AF1	04/23/96	1741	4.50	29.68
05	AR1221F1	EPA1-22-AF1	04/23/96	1819	4.51	29.69
06	AR1232F1	EPA1-24-AF1	04/23/96	1857	4.49	29.67
07	AR1242F1	EPA1-26-AF1	04/23/96	1935	4.50	29.68
08	AR1248F1	EPA1-28-AF1	04/23/96	2014	4.49	29.66
09	AR1254F1	EPA1-30-AF1	04/23/96	2052	4.50	29.67
10	TOXAPHF1	EPA1-32-AF1	04/23/96	2130	4.49	29.67
11	INDALF1	EPA1-11-AF1	04/23/96	2208	4.50	29.67
12	INDBLF1	EPA1-15-AF1	04/23/96	2325	4.50	29.67
13	INDAMF1	EPA1-12-AF1	04/24/96	0041	4.51	29.67
14	INDBMF1	EPA1-16-AF1	04/24/96	0158	4.50	29.67
15	INDAHF1	EPA1-13-AF1	04/24/96	0314	4.51	29.67
16	INDBHF1	EPA1-17-AF1	04/24/96	0431	4.51	29.67
17	PIBLKF1	EPA1-7-AF1	04/24/96	0625	4.48	29.64
18	PEMF2	EPA1-9-AF2	04/24/96	1001	4.51	29.68
19	PBLK2	033096H	04/24/96	1118	4.50	29.67
20	FES00	15411_01	04/24/96	1156	4.50	29.68
21	FER94	15411_02	04/24/96	1234	4.50	29.68
22	FER95	15411_03	04/24/96	1313	4.50	29.68
23	FER97	15411_04	04/24/96	1351	4.50	29.68
24	FER98	15411_05	04/24/96	1429	4.50	29.67
25	FER99	15411_06	04/24/96	1507	4.50	29.68
26	FER99MS	15411_07MS	04/24/96	1546	4.51	29.68
27	FER99MSD	15411_08MSD	04/24/96	1647	4.49	29.68
28	PIBLKF2	EPA1-7-AF2	04/24/96	1725	4.51	29.68
29	INDAMF2	EPA1-12-AF2	04/24/96	1842	4.51	29.68
30	INDBMF2	EPA1-16-AF2	04/24/96	1958	4.49	29.66
31	FER34	15427_01	04/24/96	2038	4.48	29.65
32	FER35	15427_02	04/24/96	2116	4.49	29.65

nb 4/29/96

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

8D

PESTICIDE ANALYTICAL SEQUENCE

000698

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GC Column: DB-1701 ID: 0.53(mm) Init. Calib. Date(s): 04/23/96 04/24/96

Instrument ID: HP2F

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.51 DCB: 29.67

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	FER39	15427_03	04/24/96	2154	4.49	29.66
02	FER41	15427_05	04/24/96	2232	4.49	29.65
03	FER91	15427_07	04/24/96	2311	4.50	29.66
04	PIBLKF3	EPA1-7-AF3	04/25/96	0027	4.49	29.66
05	PEMF3	EPA1-9-AF3	04/25/96	0143	4.49	29.66
06	FER90	15427_06	04/25/96	0300	4.50	29.67
07	FER92	15427_08	04/25/96	0533	4.48	29.64
08	FER93	15427_09	04/25/96	0649	4.49	29.65
09	FER40	15427_04	04/25/96	0806	4.49	29.68
10	PIBLKF4	EPA1-7-AF4	04/25/96	0922	4.49	29.66
11	INDAMF3	EPA1-12-AF3	04/25/96	1039	4.50	29.68
12	INDBMF3	EPA1-16-AF3	04/25/96	1155	4.49	29.67

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

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

9A

PESTICIDE FLORISIL CARTRIDGE CHECK

000699

Lab Name: AATSLA Contract: 68-D5-0023

Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Florisil Cartridge Lot Number: FLO942358 Date of Analysis: 10/18/95

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

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
alpha-BHC	0.020	0.0190	95	80-120
gamma-BHC (Lindane)	0.020	0.0184	92	80-120
Heptachlor	0.020	0.0201	100	80-120
Endosulfan I	0.020	0.0210	105	80-120
Dieldrin	0.040	0.0411	103	80-120
Endrin	0.040	0.0422	106	80-120
4,4'-DDD	0.040	0.0400	100	80-120
4,4'-DDT	0.040	0.0430	108	80-120
Methoxychlor	0.200	0.227	114	80-120
Tetrachloro-m-xylene	0.020	0.0202	101	80-120
Decachlorobiphenyl	0.040	0.0447	112	80-120

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

THIS CARTRIDGE LOT APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK2	033096H	04/15/96	04/24/96
02	FER34	15427_01	04/16/96	04/24/96
03	FER35	15427_02	04/16/96	04/24/96
04	FER39	15427_03	04/16/96	04/24/96
05	FER40	15427_04	04/16/96	04/25/96
06	FER41	15427_05	04/16/96	04/24/96
07	FER90	15427_06	04/16/96	04/25/96
08	FER91	15427_07	04/16/96	04/24/96
09	FER92	15427_08	04/16/96	04/25/96
10	FER93	15427_09	04/16/96	04/25/96
11	FER94	15411_02	04/15/96	04/24/96
12	FER95	15411_03	04/16/96	04/24/96
13	FER97	15411_04	04/16/96	04/24/96
14	FER98	15411_05	04/16/96	04/24/96
15	FER99	15411_06	04/16/96	04/24/96
16	FES00	15411_01	04/15/96	04/24/96
17	FER99MS	15411_07MS	04/16/96	04/24/96
18	FER99MSD	15411_08MSD	04/16/96	04/24/96

9B

PESTICIDE GPC CALIBRATION

000700

Lab Name: AATSLA Contract: 68-D5-0023

Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

GPC Column: GPC041296 Calibration Date: 04/12/96

GC Column(1): CP-SIL19CB ID: 0.53(mm) GC Column(2): ID: (mm)

COMPOUND	SPIKE ADDED (ng)	SPIKE RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	500.000	435	87	80-110
Heptachlor	500.000	423	85	80-110
Aldrin	500.000	416	83	80-110
Dieldrin	1000.000	926	93	80-110
Endrin	1000.000	838	84	80-110
4,4'-DDT	1000.000	874	87	80-110

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

THIS GPC CALIBRATION APPLIES TO THE FOLLOWING SAMPLES, BLANKS, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBLK2	033096H	04/15/96	04/24/96
02	FER34	15427_01	04/16/96	04/24/96
03	FER35	15427_02	04/16/96	04/24/96
04	FER39	15427_03	04/16/96	04/24/96
05	FER40	15427_04	04/16/96	04/25/96
06	FER41	15427_05	04/16/96	04/24/96
07	FER90	15427_06	04/16/96	04/25/96
08	FER91	15427_07	04/16/96	04/24/96
09	FER92	15427_08	04/16/96	04/25/96
10	FER93	15427_09	04/16/96	04/25/96
11	FER94	15411_02	04/15/96	04/24/96
12	FER95	15411_03	04/16/96	04/24/96
13	FER97	15411_04	04/16/96	04/24/96
14	FER98	15411_05	04/16/96	04/24/96
15	FER99	15411_06	04/16/96	04/24/96
16	FES00	15411_01	04/15/96	04/24/96
17	FER99MS	15411_07MS	04/16/96	04/24/96
18	FER99MSD	15411_08MSD	04/16/96	04/24/96

10A

000701 EPA SAMPLE NO.

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

FER90

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Lab Sample ID : 15427_06 Dates(s) Analyzed: 04/16/96 04/25/96

Instrument ID (1): HP3F Instrument ID (2): HP2F

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-Chlordane	1	13.68	13.62	13.76	4.08	
	2	11.64	11.58	11.72	3.20	27.5

10A

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

000702

EPA SAMPLE NO.

FER99MS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Lab Sample ID : 15411_07MS Dates(s) Analyzed: 04/16/96 04/24/96

Instrument ID (1): HP3F Instrument ID (2): HP2F

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	9.74	9.71	9.81	16.8	
	2	7.14	7.08	7.18	17.4	3.6
Heptachlor	1	10.83	10.80	10.90	18.7	
	2	7.62	7.56	7.66	19.1	2.1
Aldrin	1	11.74	11.71	11.81	18.5	
	2	8.30	8.24	8.34	20.5	10.8
Dieldrin	1	14.90	14.85	14.99	41.9	
	2	13.18	13.10	13.24	41.4	1.2
Endrin	1	15.78	15.73	15.87	43.5	
	2	14.31	14.22	14.36	46.2	6.2
4,4'-DDT	1	16.79	16.75	16.89	51.4	
	2	18.92	18.82	18.96	48.1	6.9

10A

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

000703

FER99MSD

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Lab Sample ID : 15411_08MSD Dates(s) Analyzed: 04/16/96 04/24/96

Instrument ID (1): HP3F Instrument ID (2): HP2F

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	9.74	9.71	9.81	15.9	
	2	7.12	7.08	7.18	16.7	5.0
Heptachlor	1	10.84	10.80	10.90	17.8	
	2	7.60	7.56	7.66	18.2	2.2
Aldrin	1	11.74	11.71	11.81	17.0	
	2	8.29	8.24	8.34	19.1	12.4
Dieldrin	1	14.90	14.85	14.99	39.3	
	2	13.17	13.10	13.24	39.5	0.5
Endrin	1	15.78	15.73	15.87	42.8	
	2	14.30	14.22	14.36	44.1	3.0
4,4'-DDT	1	16.80	16.75	16.89	44.0	
	2	18.91	18.82	18.96	46.0	4.5

External Standard Report 000704

Data File Name : C:\HPCHEM\3\DATA\3041496\003F0201.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-8-A|F
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~01~~ 13 :06 PM 4/15/96
Report Created on: 15 Apr 96 12:11 PM
Last Recalib on : 15 Apr 96 12:11 PM
Multiplier : 1
Sample Info : RESC|F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

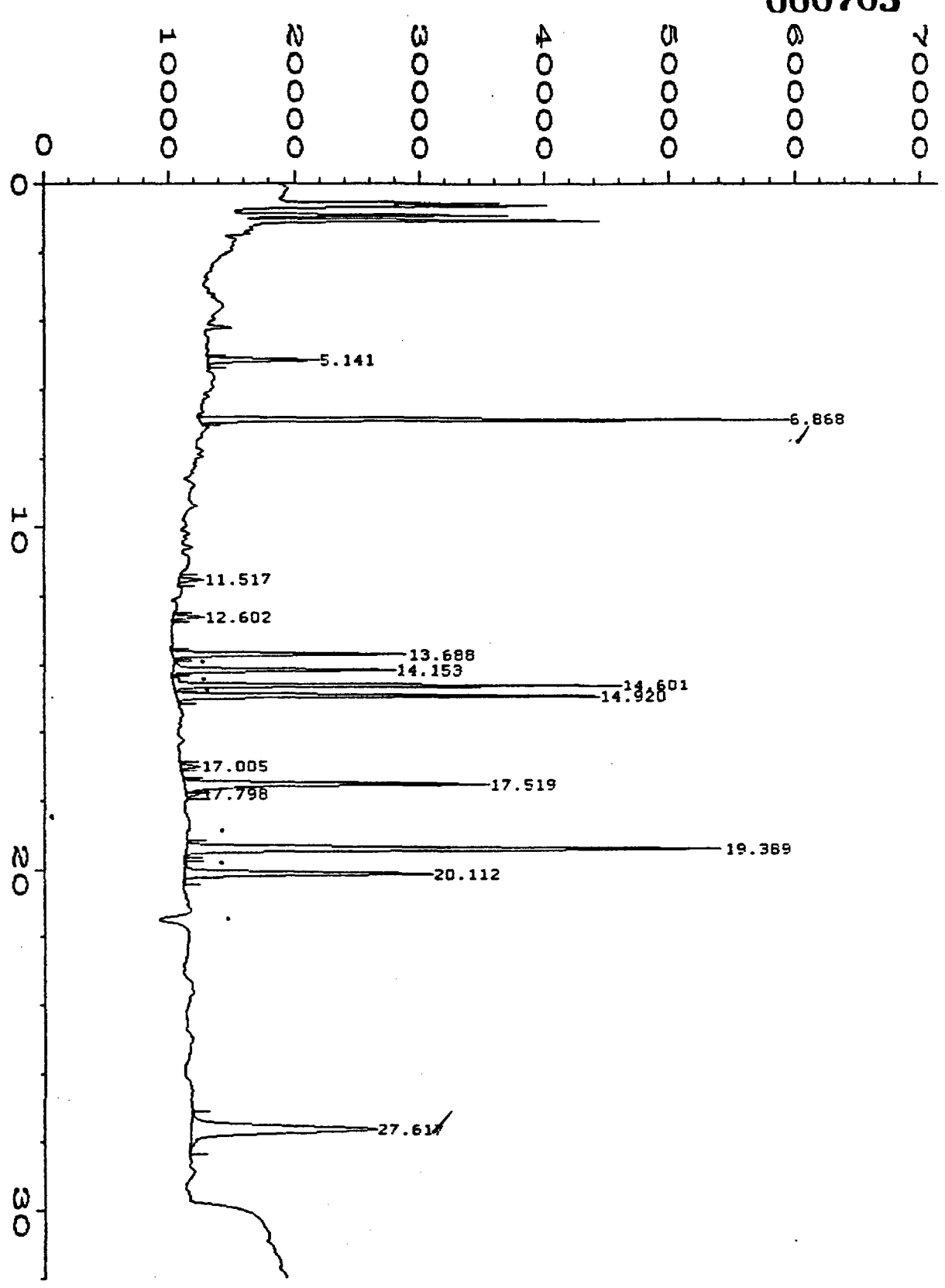
Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 2
Instrument Method: EPAMTH_F.MTH
Analysis Method : RESC3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\003F0201.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	211647	BV	0.070	1	0.0400	TCX
13.688	95798	BB	0.080	1	0.0200	g. CHLORDANE
14.153	96447	BV	0.083	1	0.0200	ENDOSULFAN I
14.601	168511	PV	0.072	1	0.0400	4,4'-DDE
14.920	169357	VB	0.078	1	0.0400	DIELDRIN
17.519	161860	BV	0.100	1	0.0400	ENDO. SULFATE
19.389	315784	BB	0.115	1	0.200	METHOXYCHLOR
20.112	147742	BB	0.117	1	0.0400	ENDRIN KETONE
27.617	235822	BB	0.245	1	0.0400	DCB

RD
050196
000704 000809

000705



Data File Name	: C:\HPCHEM\3\DATA\3041496\003F0201.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 3
Sample Name	: EPA1-8-A 1F.	Injection Number	: 1
Run Time Bar Code:	13 10/4/96	Sequence Line	: 2
Acquired on	: 14 Apr 96 01:06 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 08:11 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: RESC 1F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

000706

INJECTION REPORT

Injection C: <PESTEPA> 3 JUNKCAL,2,1

Acquired on 23-Apr-96 at 15:07:44
Modified on 25-Apr-80 at 09:34:18
Reported on 25-Apr-96 at 09:50:07

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 08:39:34
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 09:46:12
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-8-AF1
Sample ID.....: RESCF1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 5

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.502	390485	0.0400	TCX
5	11.449	162543	0.0200	ENDOSULFAN I
6	11.671	207593	0.0200	g. CHLORDANE
7	12.404	305799	0.0400	4,4'-DDE
8	13.191	344473	0.0400	DIELDRIN
9	24.227	252357	0.0400	ENDO. SULFATE
10	24.747	619671	0.2000	METHOXYCHLOR
11	26.253	213076	0.0400	ENDRIN KETONE
12	29.689	278980	0.0400	DCB
Total		2774979	0.4800	
Residual		65051	6.6637E-003	

VG Data Systems - Minichrom v1.66

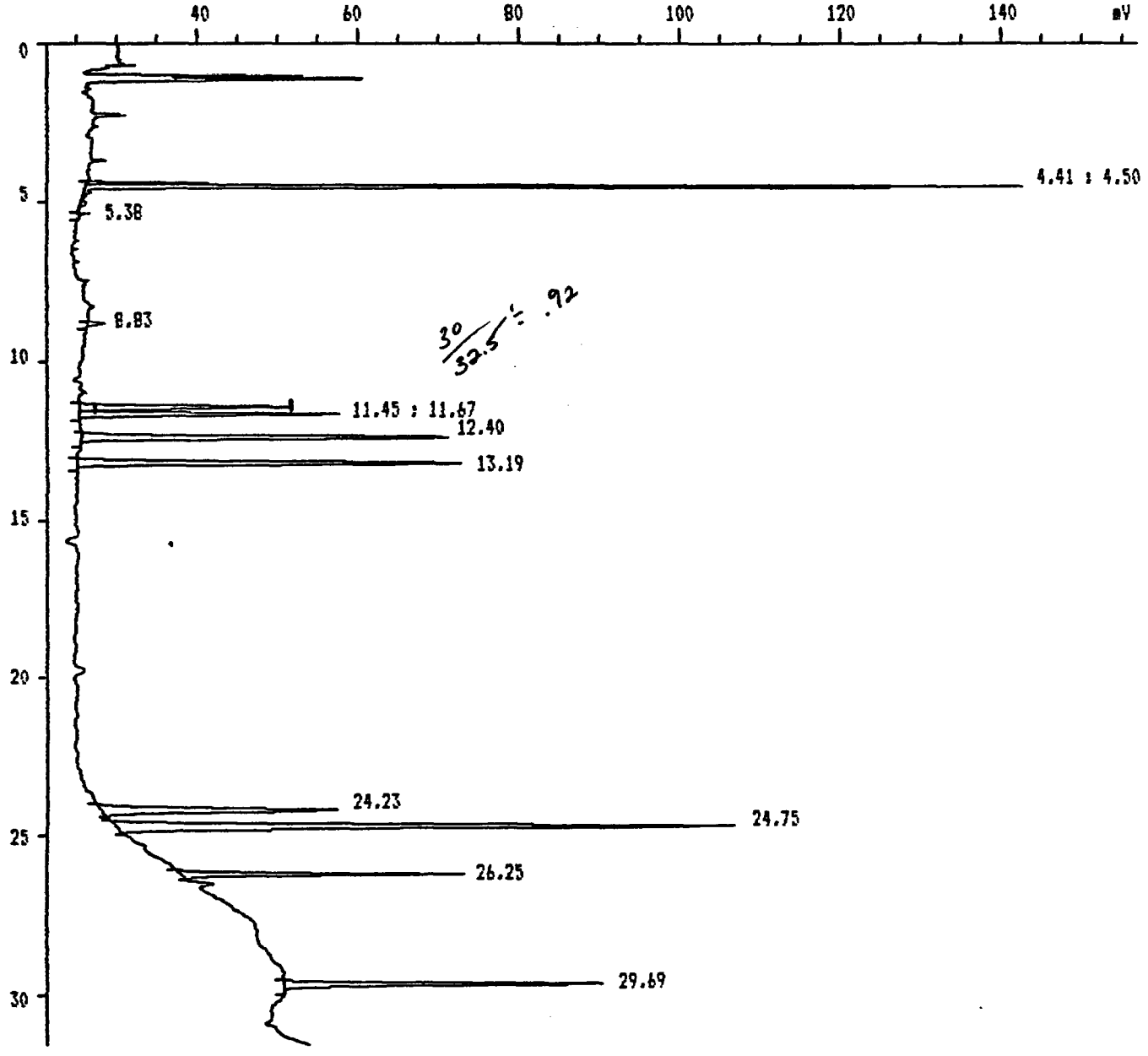
LONG PLOT

000707

Injection C: <PESTEPA> 3 JUNKCAL,2,1

Sample name.....: EPA1-8-A F1
Sample ID.....: RESC F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 15:07:44
Reported on 25-Apr-96 at 09:51:12



VG Data Systems - Minichrom v1.66

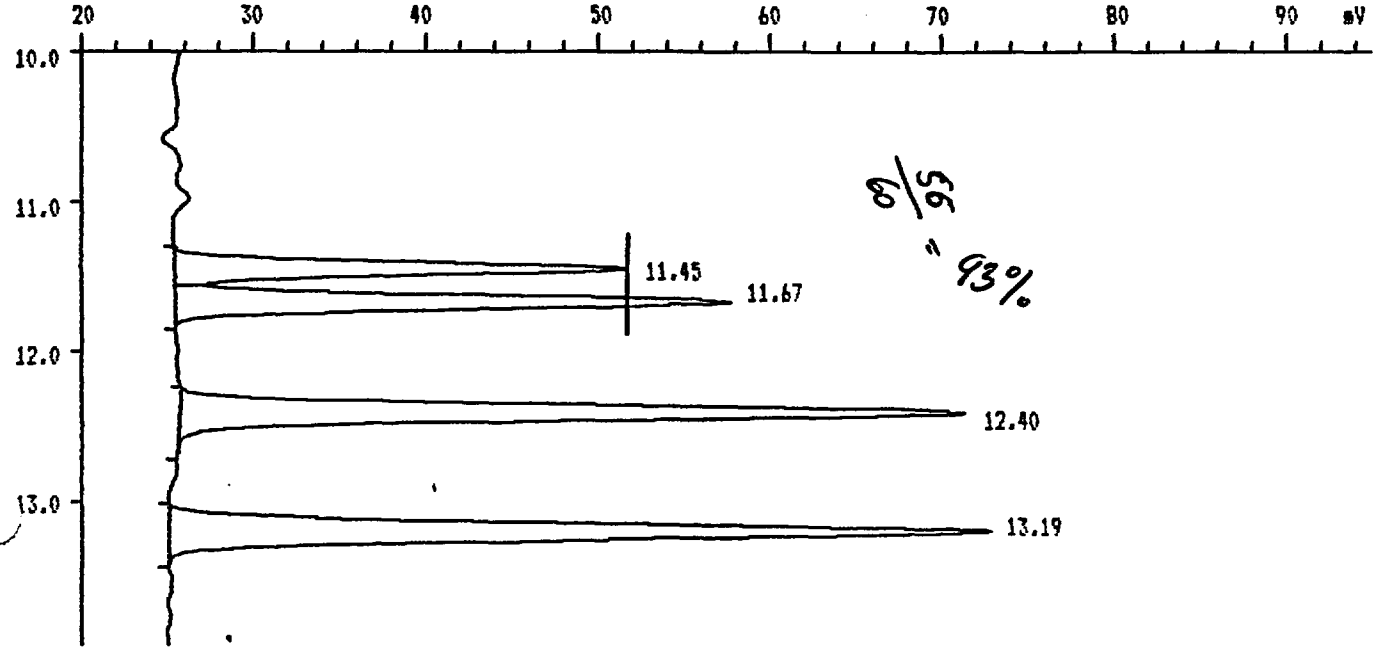
LONG PLOT

000708

Injection C: <PESTEPA> 3 JUNKCAL,2,1

Sample name.....: EPA1-8-A F1
Sample ID.....: RESCF1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 15:07:44
Reported on 25-Apr-96 at 09:28:54



8/95
" 93%

External Standard Report

000709

Data File Name : C:\HPCHEM\3\DATA\3041496\004F0301.D
Operator : DLP Pem 1F ETx-35
Instrument : HP3F 30m
Sample Name : EPA1-9-A1F 0.53 mm ID
Run Time Bar Code: 13 2ul inj.
Acquired on : 14 Apr 96 01:42 PM
Report Created on: 15 Apr 96 07:10 PM 4/15/96
Last Recalib on : 15 Apr 96 07:09 PM
Multiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 3
Instrument Method: EPAMTH_F.MTH
Analysis Method : PEM3F.MTH
Sample Amount : 0
ISTD Amount :

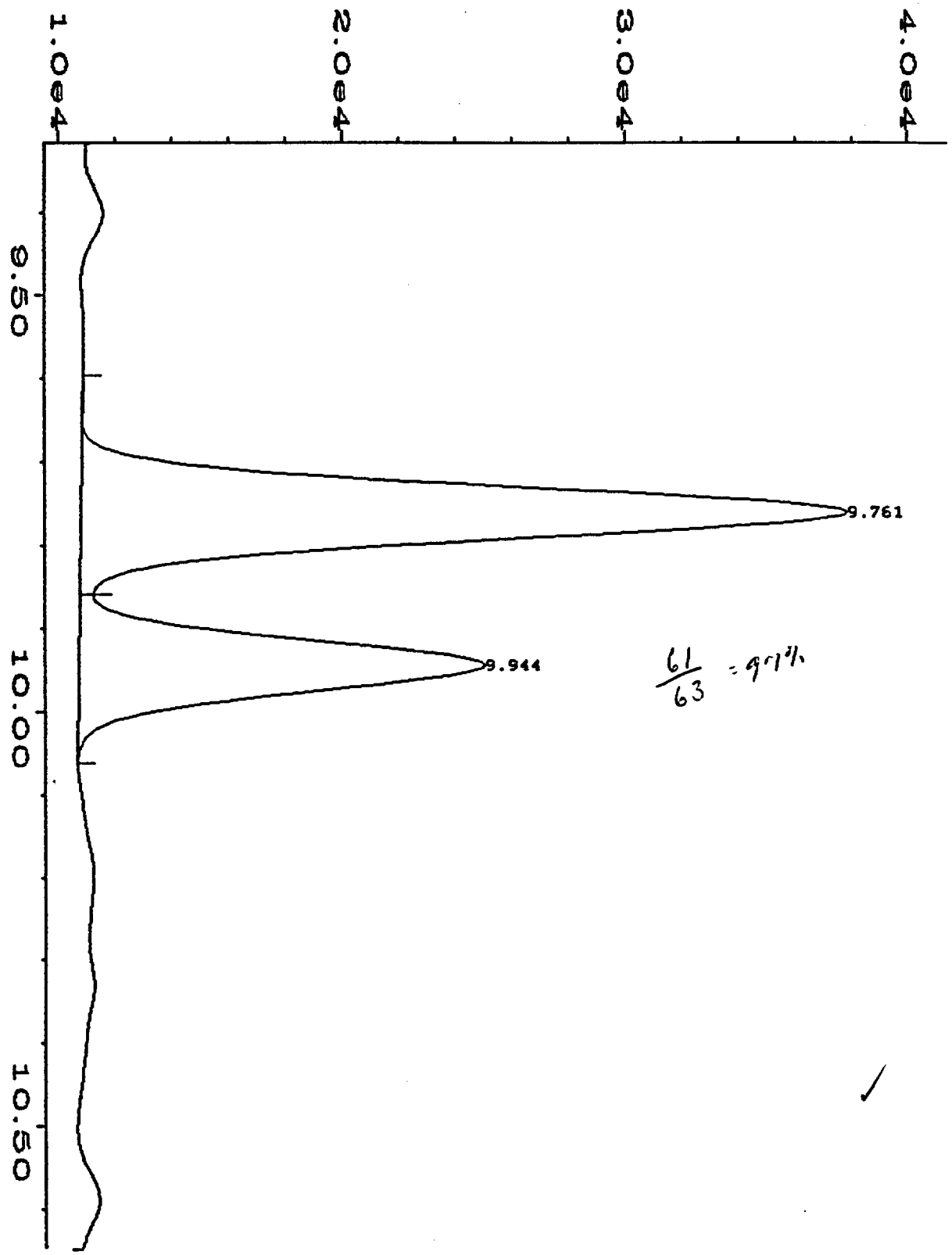
Sig. 1 in C:\HPCHEM\3\DATA\3041496\004F0301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	213912	BV	0.071	1	0.0400	TCX
8.698	128101	BB	0.066	1	0.0200	alpha-BHC
9.761	118505	BV	0.068	1	0.0200	gamma-BHC
9.944	63397	VV	0.069	1	0.0200	beta-BHC
14.603	* not found *			1		4,4'-DDE
15.803	330255	PV	0.078	1	0.100	ENDRIN
15.991	8735	VV	0.084	1	0.000	4,4'-DDD
16.814	608087	VV	0.081	1	0.200	4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
19.387	699327	FM	0.125	1	0.500	METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.618	219829	BV	0.237	1	0.0400	DCB

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

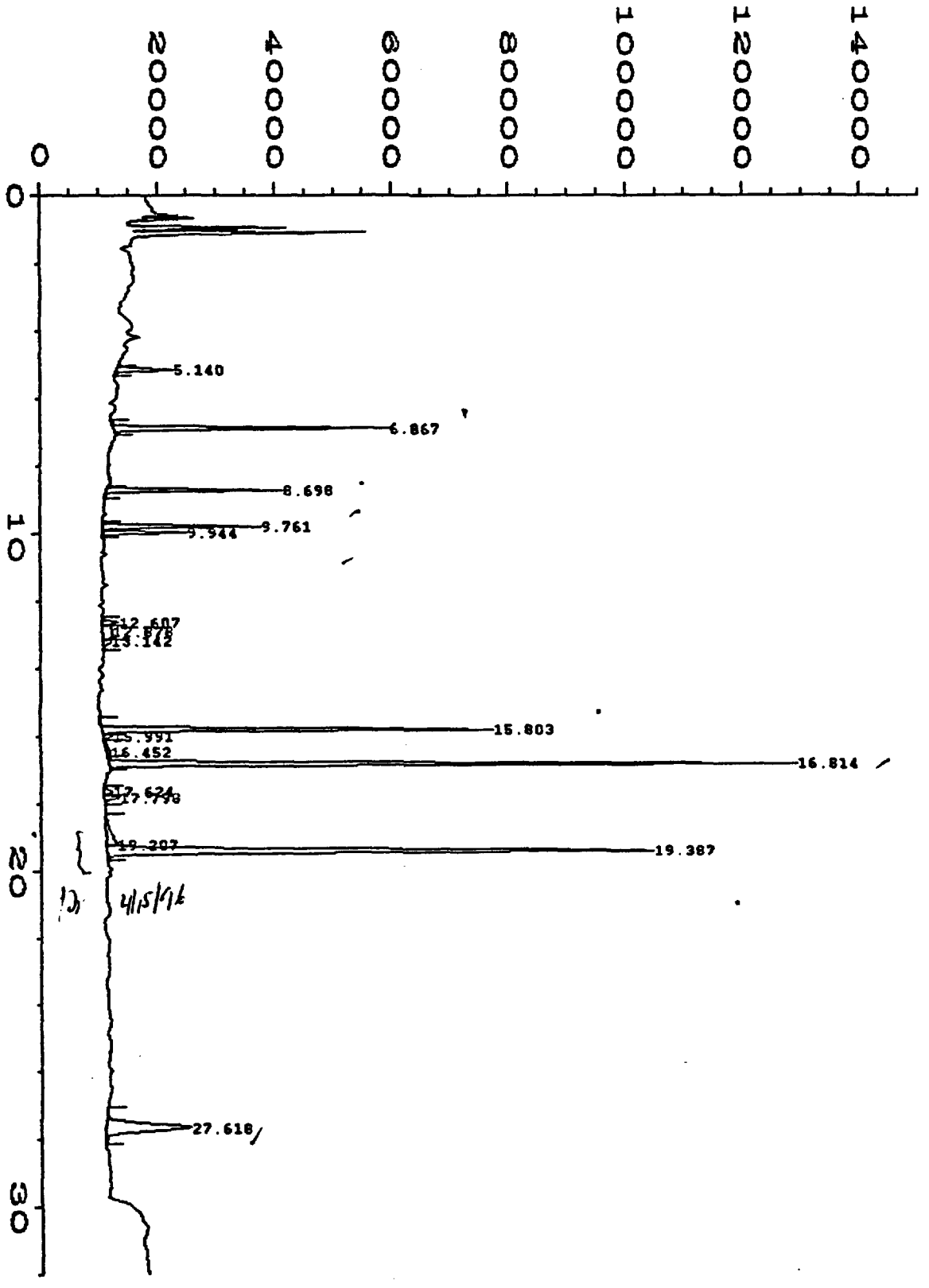
User Modified



61/63 = 97%

Data File Name	: C:\HPCHEM\3\DATA\3041496\004F0301.D		
Operator	: DLP PEM IF RTX-35, 30M	Page Number	: 1
Instrument	: HP3F 0.53 mm ID	Vial Number	: 4
Sample Name	: EPA1-9-A IF 2 ul inj.	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 3
Acquired on	: 14 Apr 96 ~~01~~ 13:42 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 06:49 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:

4/15/96



Data File Name : C:\HPCHEM\3\DATA\3041496\004F0301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-9-A1F
Time Bar Code:
Acquired on : 14 Apr 96 01:42 PM
Report Created on: 15 Apr 96 07:19 PM
Last Recalib on : 15 Apr 96 07:09 PM
Multiplier : 1

Pam 1F RTX-35 30 M 0.53 mm ID 2 ul inj.

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 3
Instrument Method: EPAMTH_F.MTH
Analysis Method : PEM3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report 000712

Data File Name : C:\HPCHEM\3\DATA\3041496\028F1801.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-9-A2F
Run Time Bar Code:
Acquired on : 15 Apr 96 04:17 AM
Report Created on: 15 Apr 96 01:39 PM
Last Recalib on : 15 Apr 96 01:39 PM
Multiplier : 1
Sample Info : PEM2F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

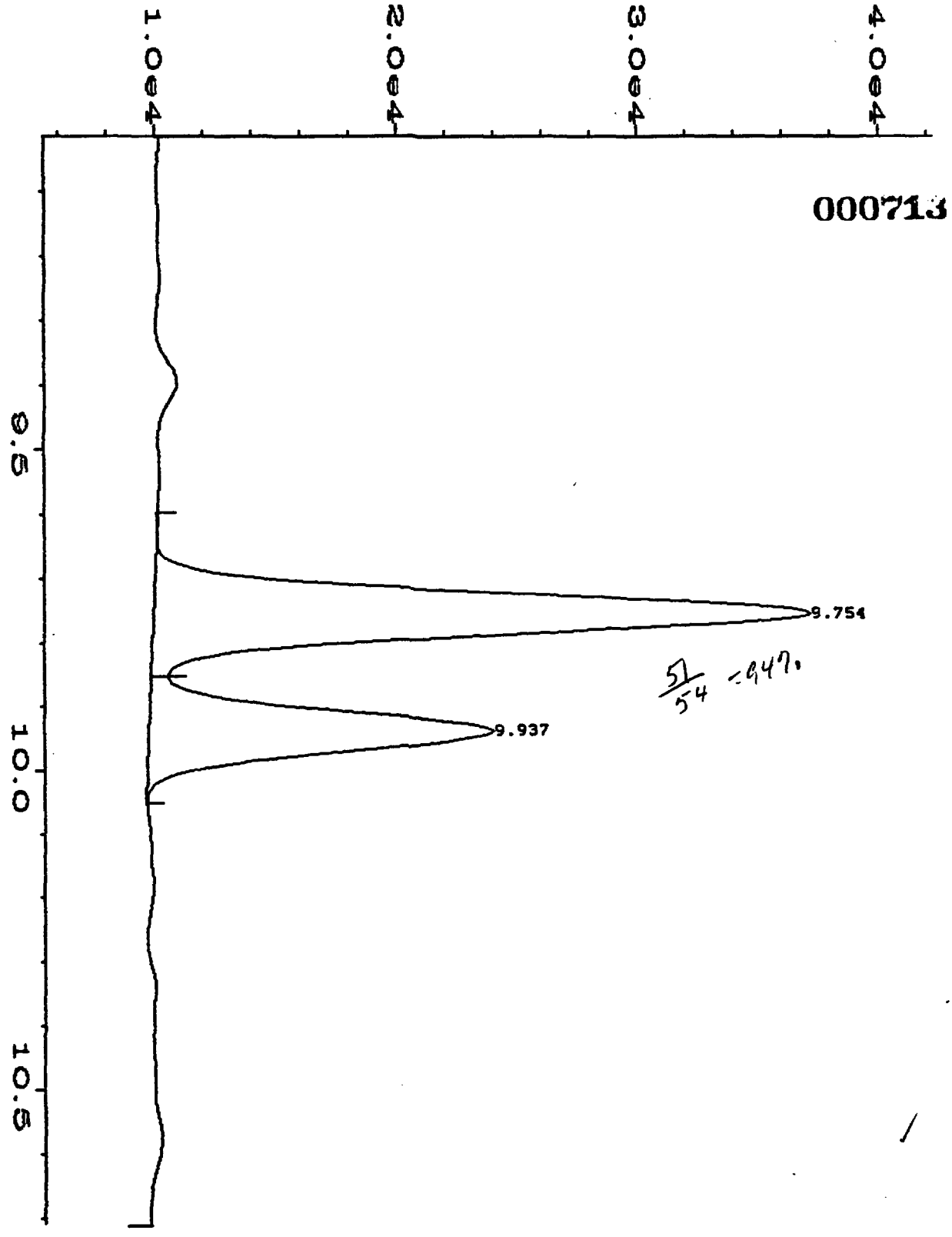
Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 18
Instrument Method: EPAMTH_F.MTH
Analysis Method : PEM3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\028F1801.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.861	207520	BV	0.069	1	0.0400	TCX
8.692	123625	BB	0.066	1	0.0200	alpha-BHC
9.754	120434	BV	0.069	1	0.0200	gamma-BHC
9.937	63610	VV	0.070	1	0.0200	beta-BHC
14.603	* not found *			1		4,4'-DDE
15.797	312821	PV	0.077	1	0.100	ENDRIN
15.991	3405	PB	0.067	1	0.000	4,4'-DDD
16.808	549831	PV	0.080	1	0.200	4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
19.379	699630	BV	0.119	1	0.500	METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
7.598	196810	BV	0.237	1	0.0400	DCB

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

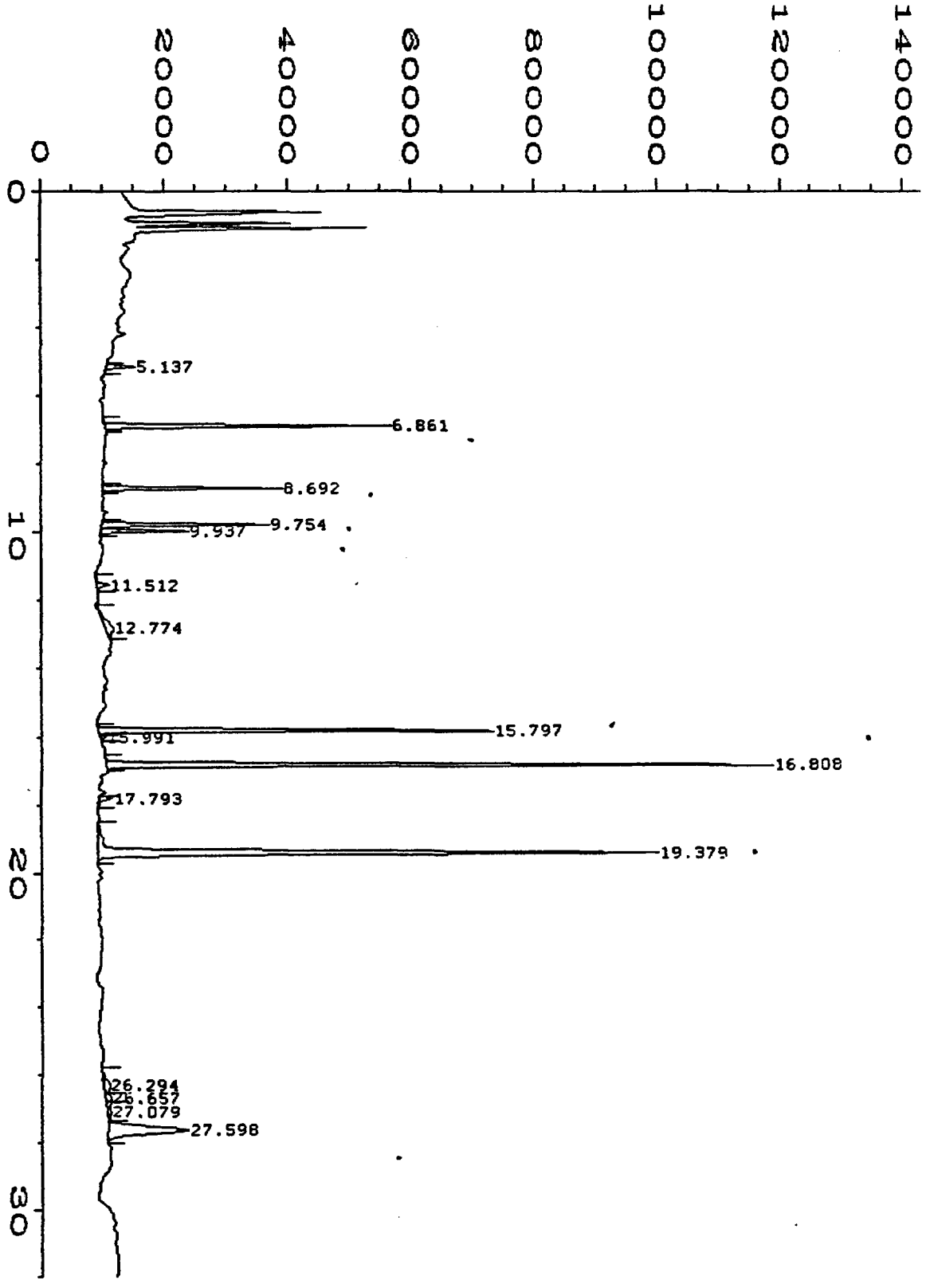


000713

51/54 = 94%

Data File Name	: C:\HPCHEM\3\DATA\3041496\028F1801.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 28
Sample Name	: EPA1-9-A2F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 18
Acquired on	: 15 Apr 96 04:17 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 06:48 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:

Pam 2F RTX-35 30m 0.53mm ID 2um mfg.



Data File Name : C:\HPCHEM\3\DATA\3041496\028F1801.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-9-A 2F
Run Time Bar Code:
Acquired on : 15 Apr 96 04:17 AM
Report Created on: 15 Apr 96 08:14 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 1
Sample Info : PEM2F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 18
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000715

a File Name : C:\HPCHEM\3\DATA\3041596\013F0101.D
erator : DLP
Instrument : HP3F
Sample Name : EPA1-9-A3F
Run Time Bar Code:
Acquired on : 15 Apr 96 08:58 PM
Report Created on: 25 Apr 96 02:13 PM
Last Recalib on : 25 Apr 96 02:13 PM
Multiplier : 1

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : PEMRTX35.MTH
Sample Amount : 0
ISTD Amount :

20 58

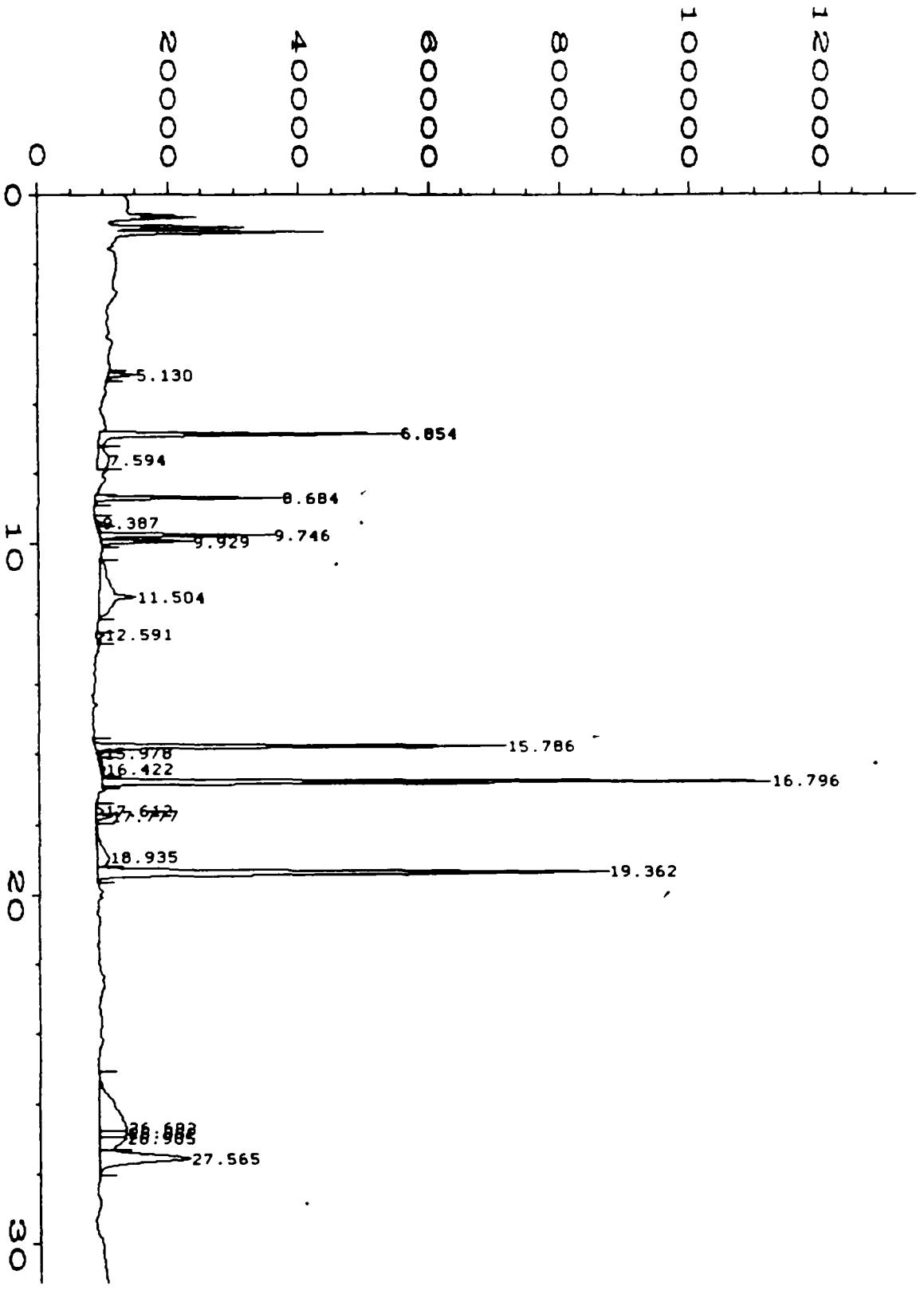
PEM3F, RTX-35, 0.53mm ID, 2µl 130M

Sig. 1 in C:\HPCHEM\3\DATA\3041596\013F0101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.854	229460	VV	0.075	1	0.0400	TCX
8.684	121889	VV	0.067	1	0.0200	alpha-BHC
9.746	120694	VV	0.070	1	0.0200	gamma-BHC
9.929	62403	VV	0.070	1	0.0200	beta-BHC
14.602	* not found *			1		4,4'-DDE
15.786	309934	BV	0.077	1	0.100	ENDRIN
15.978	4955	VV	0.074	1	0.000	4,4'-DDD
16.796	519183	BV	0.080	1	0.200	4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
19.362	587828	VV	0.118	1	0.500	METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.565	231413	VV	0.254	1	0.0400	DCB

ibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name : C:\HPCHEM\3\DATA\3041596\013F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-9-A3F
Run Time Bar Code: 20 SK
Acquired on : 15 Apr 96 08:58 PM
Report Created on: 15 Apr 96 09:33 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : PEM3F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 13
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000717

Data File Name : C:\HPCHEM\3\DATA\3041596\045F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-9-A4F
Run Time Bar Code:
Acquired on : 16 Apr 96 03:54 PM 15 54
Report Created on: 25 Apr 96 02:14 PM
Last Recalib on : 25 Apr 96 02:14 PM
Multiplier : 1

Page Number : 1
Vial Number : 45
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : PEMRTX35.MTH
Sample Amount : 0
ISTD Amount :

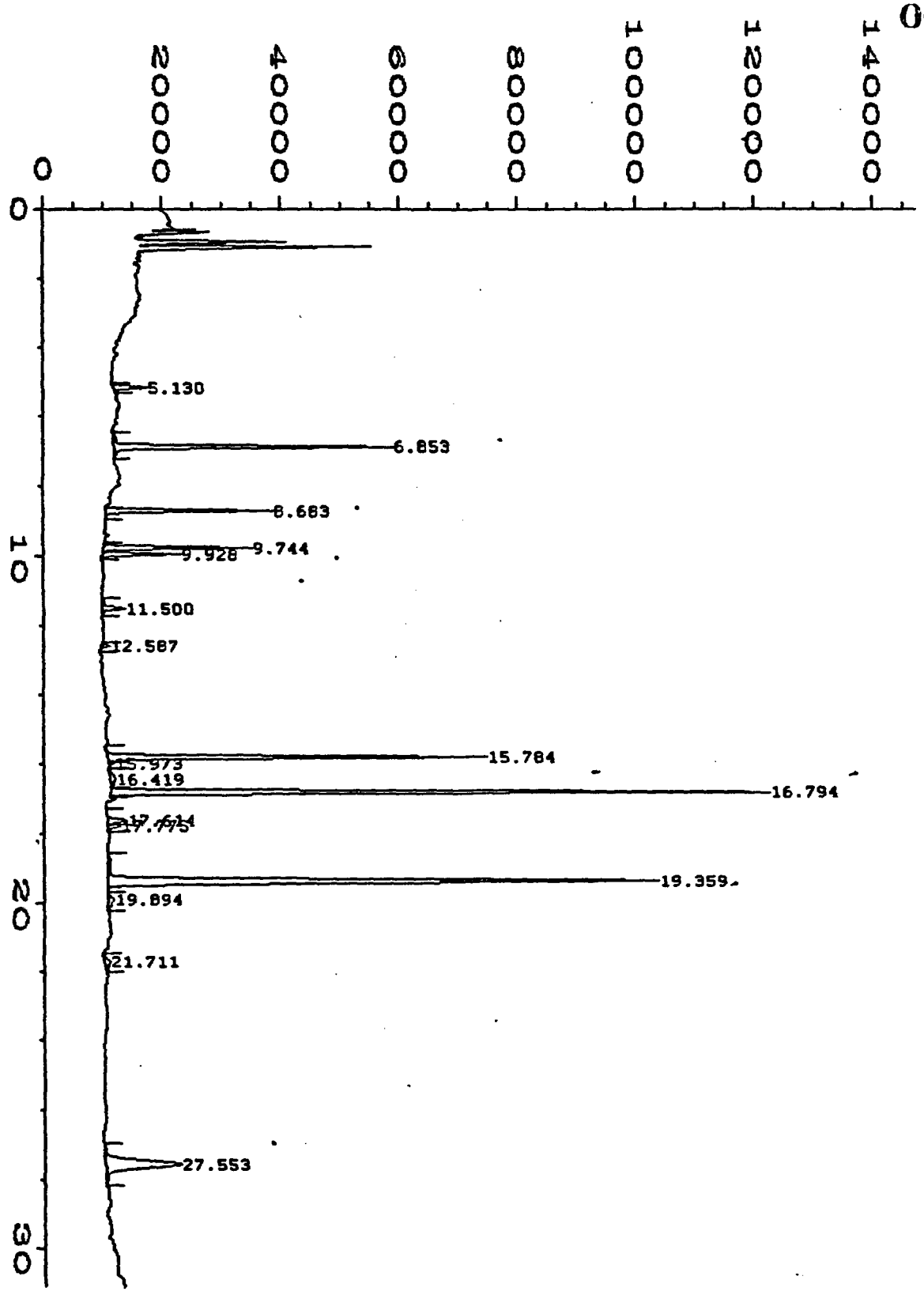
PEM4F, RTX-35, 0.53mm ID, 2µm, 30M

Sig. 1 in C:\HPCHEM\3\DATA\3041596\045F0101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.853	231973	BB	0.075	1	0.0400	TCX
8.683	124065	PB	0.068	1	0.0200	alpha-BHC
9.744	111251	BV	0.069	1	0.0200	gamma-BHC
9.928	58822	VB	0.070	1	0.0200	beta-BHC
14.602	* not found *			1		4,4'-DDE
15.784	316678	BV	0.078	1	0.100	ENDRIN
15.973	4796	VB	0.077	1	0.000	4,4'-DDD
16.794	564352	BV	0.080	1	0.200	4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
19.359	701523	BV	0.117	1	0.500	METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.553	201258	BV	0.247	1	0.0400	DCB

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name : C:\HPCHEM\3\DATA\3041596\045F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-9-A4F
Run Time Bar Code: 15 54
Acquired on : 16 Apr 96 03:54 PM
Report Created on: 16 Apr 96 04:30 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : PEM4F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 45
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

VG Data Systems - Minichrom v1.66

INJECTION REPORT

Injection C: <PESTEPA> 3 JUNKCAL,4,1

Acquired on 23-Apr-96 at 16:24:23
Modified on 25-Apr-80 at 09:37:46
Reported on 25-Apr-96 at 09:52:59

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 08:39:34
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 09:46:12
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-9-AF1
Sample ID.....: PEMF1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 7

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.502	385241	0.0400	TCX
4	6.320	230247	0.0200	alpha-BHC
6	7.133	219692	0.0200	gamma-BHC
7	8.898	143599	0.0200	beta-BHC
8	14.316	800357	0.1000	ENDRIN
9	17.520	45421	0.0000	4,4'-DDD
10	18.938	1313121	0.2000	4,4'-DDT
12	24.751	1604201	0.5000	METHOXYCHLOR
14	26.249	17754	0.0000	ENDRIN KETONE
16	29.689	253430	0.0400	DCB
Total		5013063	0.9400	
Residual		159337	0.0142	

VG Data Systems - Minichrom v1.66

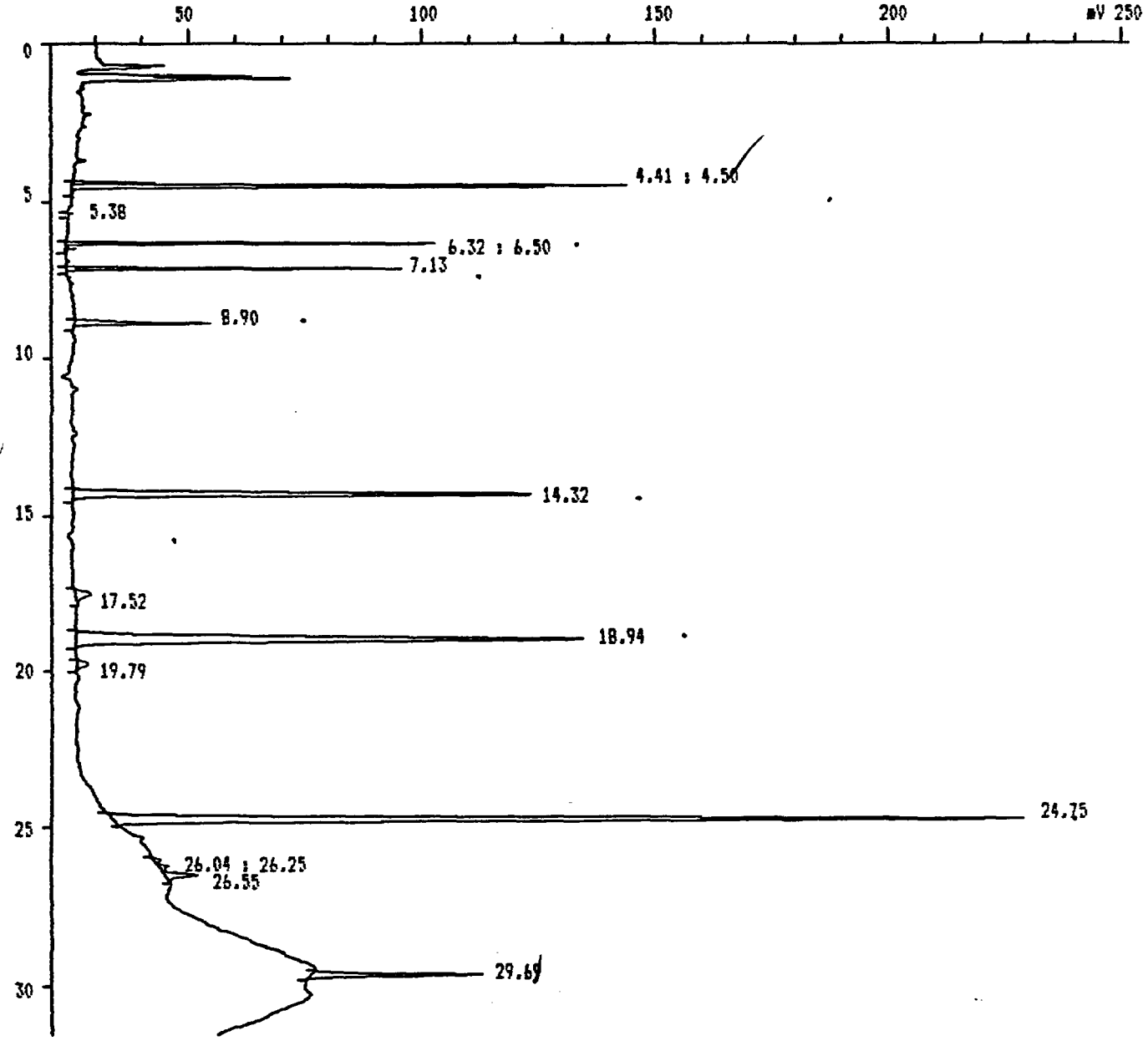
LONG PLOT

000720

njection C: <PESTEPA> 3 JUNKCAL,4,1

Sample name.....: EPA1-9-A F1
Sample ID.....: PEM F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 16:24:23
Reported on 25-Apr-96 at 09:54:06



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000721

njection C: <PESTEPA> 3 0424SAM,1,1

Acquired on 24-Apr-96 at 10:01:38
Modified on 25-Apr-80 at 14:59:28
Reported on 25-Apr-96 at 15:08:44

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 14:59:44
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-9-A F2
Sample ID.....: PEM F2
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 1

Retention time update.....: No update
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.507	372192	0.0400	TCX
5	6.324	223736	0.0200	alpha-BHC
7	7.138	217921	0.0200	gamma-BHC
8	8.898	147832	0.0200	beta-BHC
9	14.311	826514	0.1000	ENDRIN
10	18.924	1443744	0.2000	4,4'-DDT
12	24.742	1834889	0.5000	METHOXYCHLOR
15	26.249	17907	0.0000	ENDRIN KETONE
17	29.684	304307	0.0400	DCB
Total		5389042	0.9400	
Residual		166866	0.0186	

VG Data Systems - Minichrom v1.66

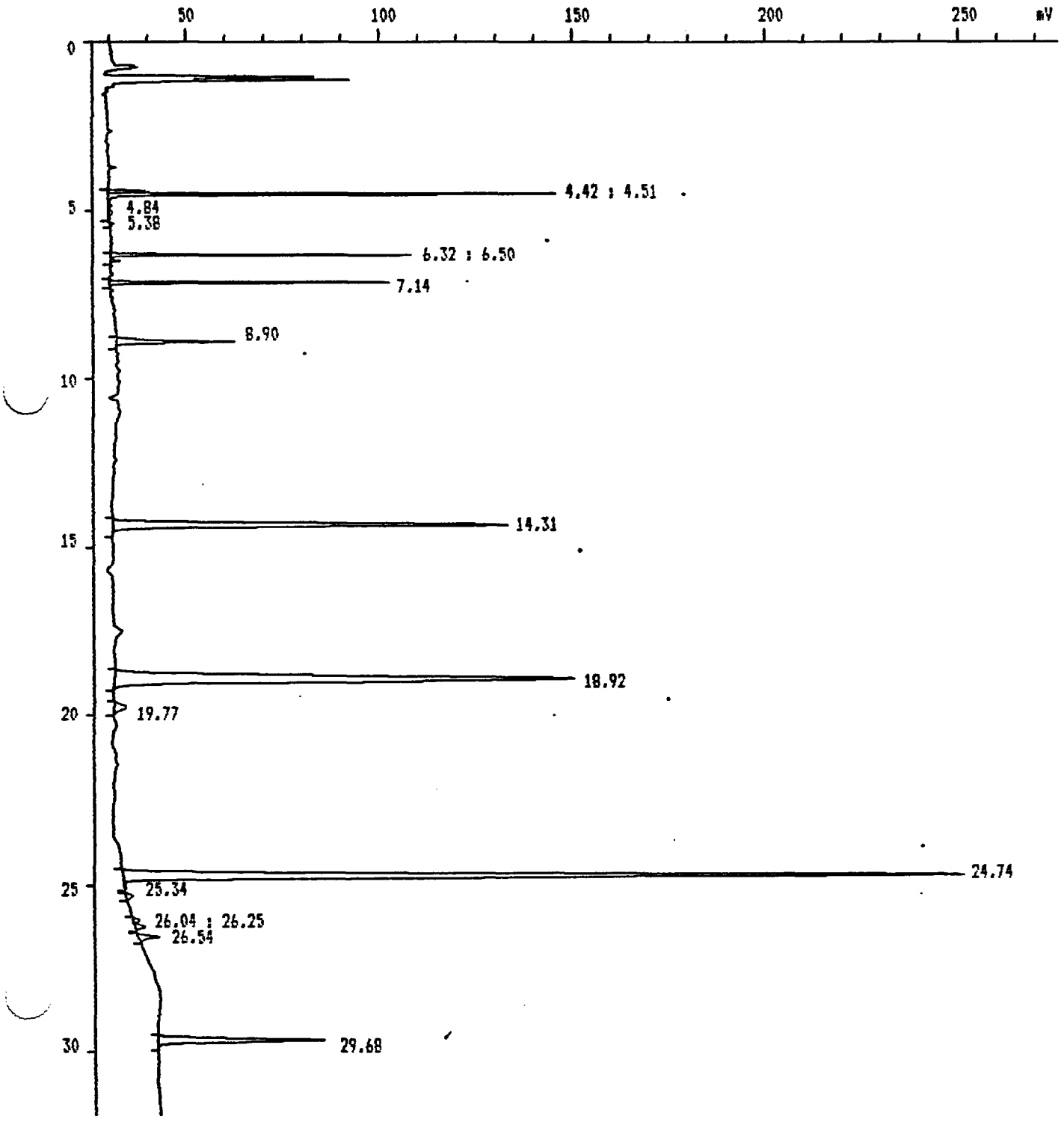
LONG PLOT

000722

Injection C: <PESTEPA> 3 0424SAM,1,1

Sample name.....: EPA1-9-A F2
Sample ID.....: PEM F2
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 10:01:38
Reported on 24-Apr-96 at 10:36:09



VG Data Systems - Minichrom v1.66

INJECTION REPORT

Injection C: <PESTEPA> 3 0424BSAM,9,1

000723

Acquired on 25-Apr-96 at 01:43:58
Modified on 25-Apr-80 at 15:03:42
Reported on 25-Apr-96 at 15:10:48

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 14:59:44
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-9-A F3
Sample ID.....: PEM F3
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 34

Retention time update.....: No update
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
1	4.493	370808	0.0400	TCX
3	6.307	217216	0.0200	alpha-BHC
5	7.120	218555	0.0200	gamma-BHC
6	8.880	150643	0.0200	beta-BHC
7	14.276	803368	0.1000	ENDRIN
8	17.453	37771	0.0000	4,4'-DDD
9	18.871	1344989✓	0.2000	4,4'-DDT
12	24.711	1690587	0.5000	METHOXYCHLOR
15	26.218	23120	0.0000	ENDRIN KETONE
17	29.658	291983	0.0400	DCB
Total		5149040	0.9400	
Residual		133919	0.0202	

VG Data Systems - Minichrom v1.66

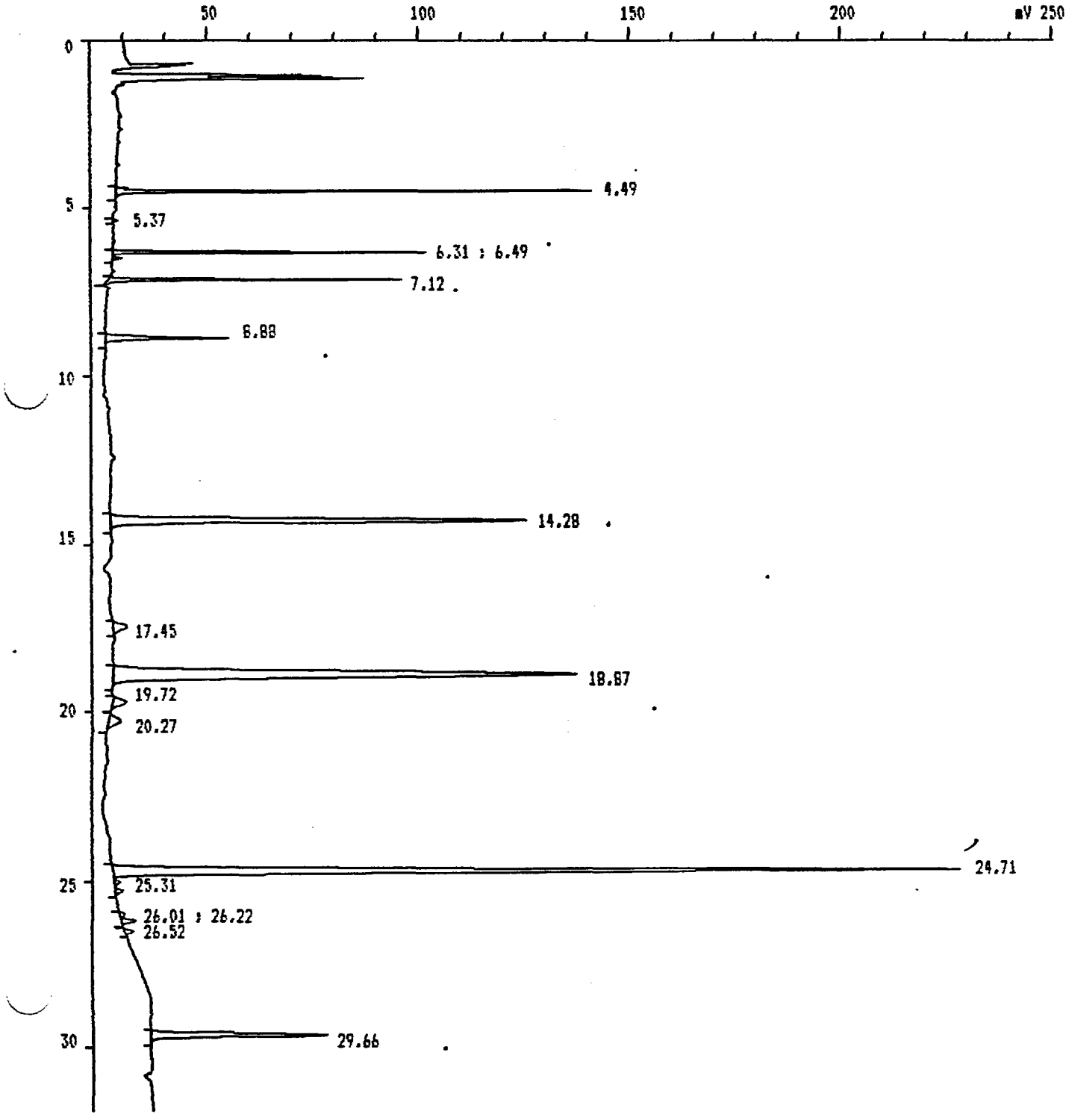
LONG PLOT

000724

Injection C: <PESTEPA> 3 0424BSAM,9,1

Sample name.....: EPA1-9-A F3
Sample ID.....: PEM F3
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 01:43:58
Reported on 25-Apr-96 at 02:18:27



External Standard Report

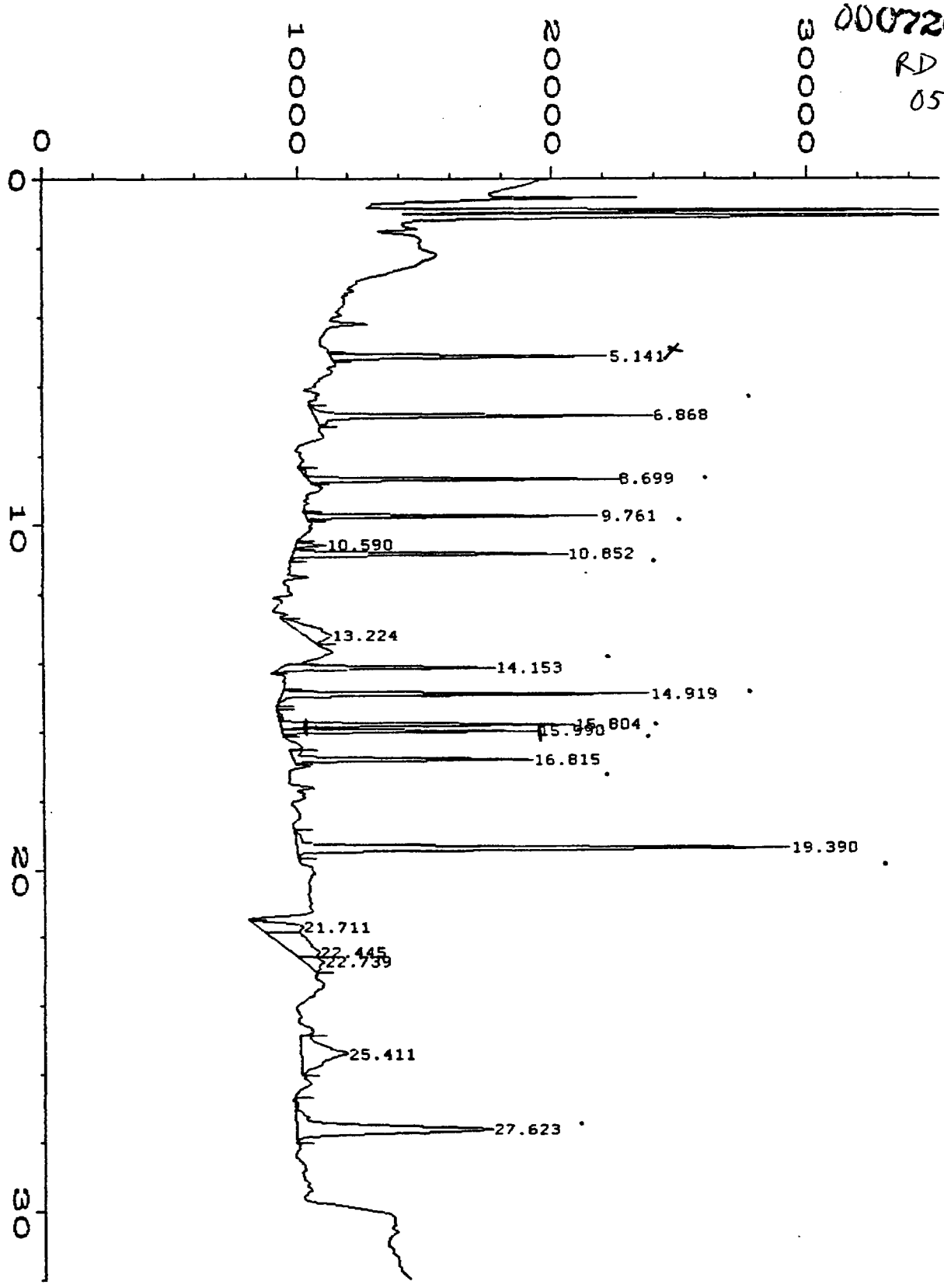
000725

Data File Name	: C:\HPCHEM\3\DATA\3041496\013F1101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 13
Sample Name	: EPA1-11-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 11
Acquired on	: 14 Apr 96 07:10 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 02:47 PM	Analysis Method	: INDA3F.MTH
Last Recalib on	: 15 Apr 96 02:47 PM	Sample Amount	: 0
Multiplier	: 0.25	ISTD Amount	:
Sample Info	: INDAL1F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

Sig. 1 in C:\HPCHEM\3\DATA\3041496\013F1101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	70497	BB	0.079	1	0.0100	TCX
8.699	52493	BV	0.067	1	0.0100	alpha-BHC
9.761	49382	BB	0.067	1	0.0100	gamma-BHC
10.852	58083	VB	0.083	1	0.0100	HEPTACHLOR
14.153	49095	VV	0.088	1	0.0100	ENDOSULFAN I
14.919	73834	BB	0.078	1	0.0200	DIELDRIN
15.804	59362	BV	0.079	1	0.0200	ENDRIN
15.990	45865	VV	0.071	1	0.0200	4,4'-DDD
16.815	52838	VV	0.085	1	0.0200	4,4'-DDT
19.390	144706	BB	0.116	1	0.100	METHOXYCHLOR
27.623	123522	BV	0.242	1	0.0200	DCB

000726
RD
050196



Data File Name	: C:\HPCHEM\3\DATA\3041496\013F1101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 13
Sample Name	: EPA1-11-A|F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 11
Acquired on	: 14 Apr 96 ~~07~~ 19 :10 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 08:12 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: INDAL|F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

for 4/16/96

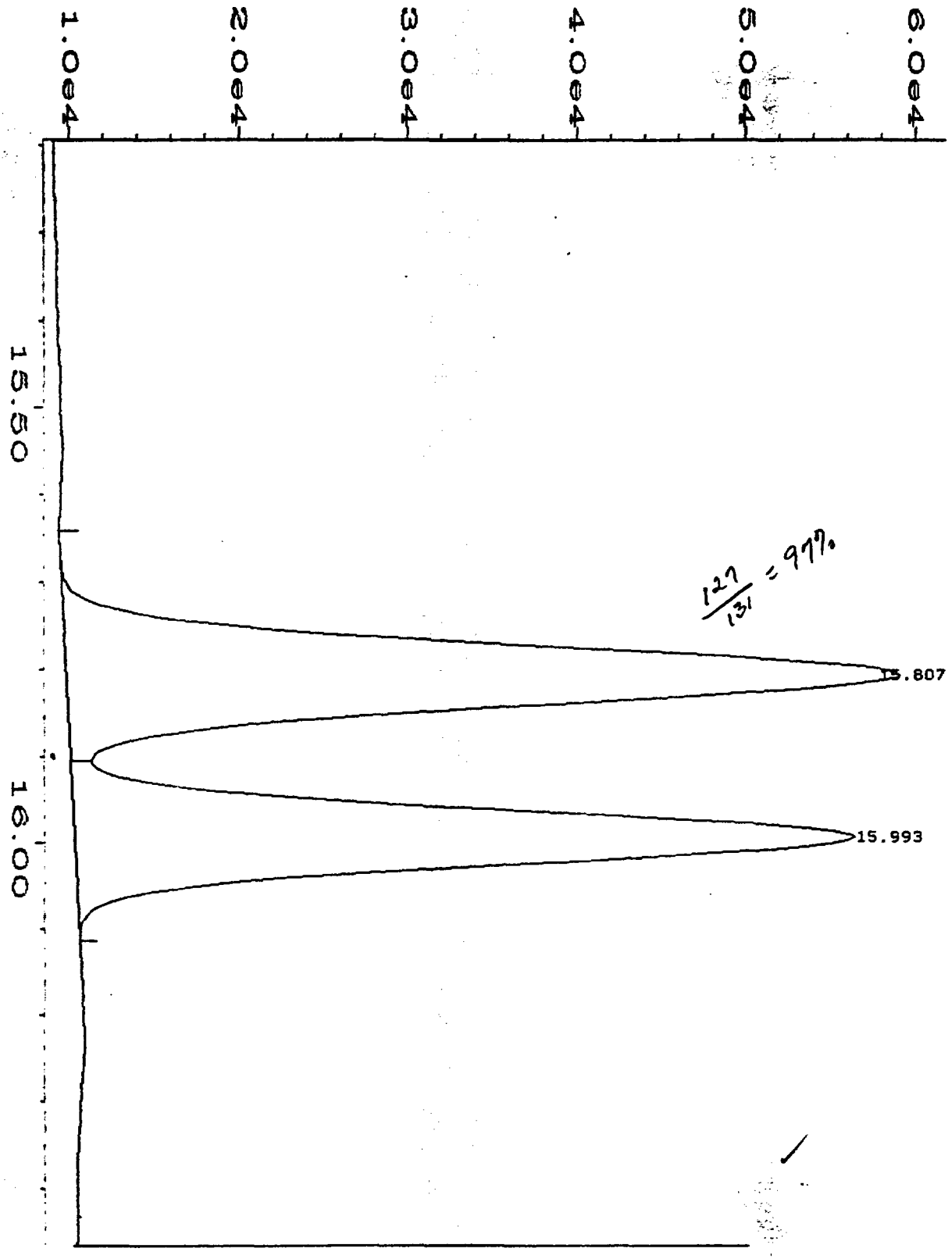
External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3041496\018F1301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A 1F
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~10:12 PM~~ 22 12 for 4/15/96
Report Created on: 15 Apr 96 12:12 PM
Last Recalib on : 15 Apr 96 12:12 PM
Multiplier : 1
Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 13
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :
Sample Info : INDAM1F , HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

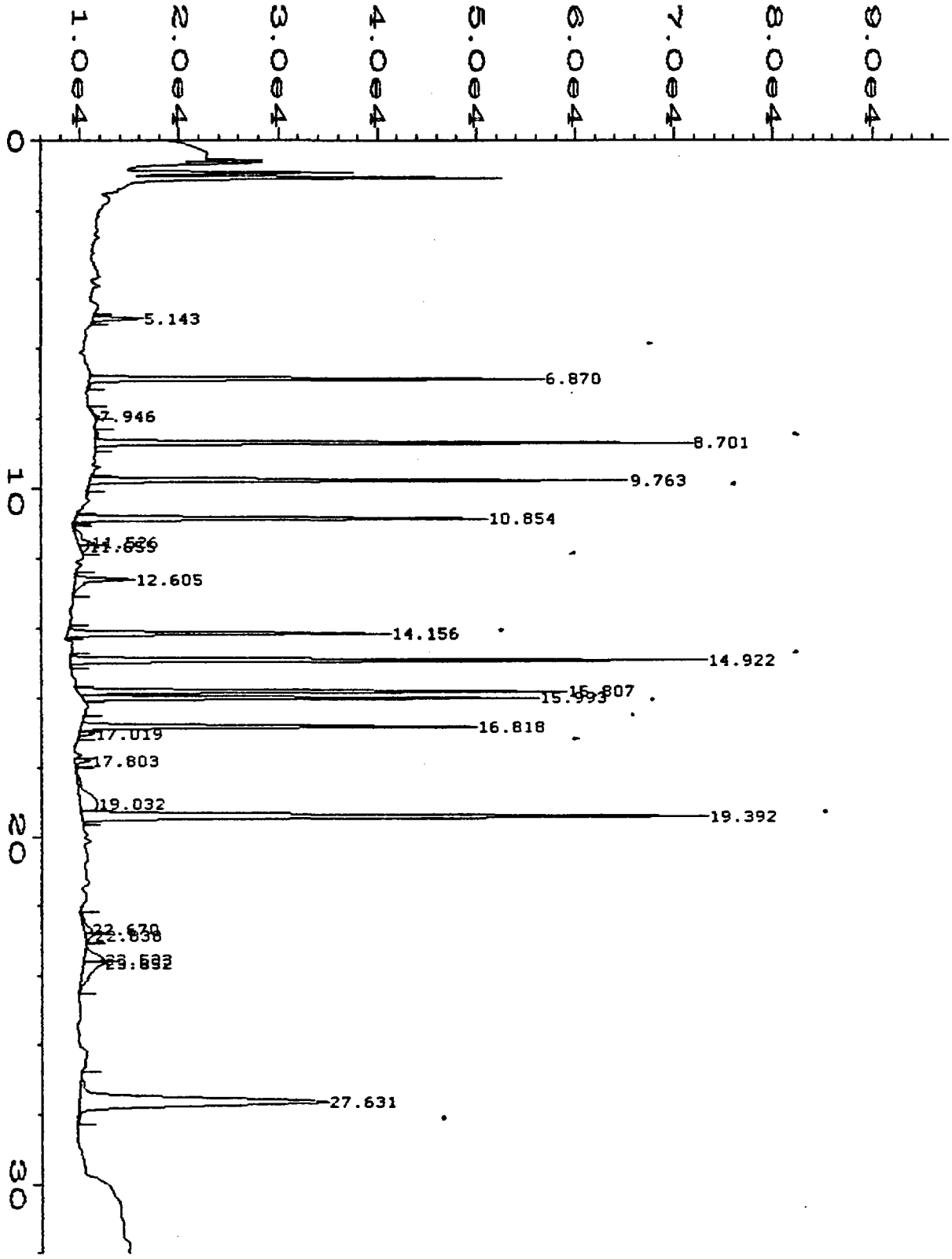
Sig. 1 in C:\HPCHEM\3\DATA\3041496\018F1301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.870	208478	BB	0.070	1	0.0400	TCX
8.701	267779	BB	0.070	1	0.0400	alpha-BHC
9.763	246438	BB	0.071	1	0.0400	gamma-BHC
10.854	215678	BB	0.081	1	0.0400	HEPTACHLOR
14.156	169879	BV	0.081	1	0.0400	ENDOSULFAN I
14.922	316718	BB	0.077	1	0.0800	DIELDRIN
15.807	239031	PV	0.076	1	0.0800	ENDRIN
15.993	203297	VV	0.069	1	0.0800	4,4'-DDD
16.818	201421	BV	0.079	1	0.0800	4,4'-DDT
19.392	472876	VV	0.117	1	0.400	METHOXYCHLOR
27.631	391391	BB	0.239	1	0.0800	DCB

000728



a File Name	: C:\HPCHEM\3\DATA\3041496\018F1301.D		
rator	: DLP Ext AM 1F RTX-35, 30M	Page Number	: 1
Instrument	: HP3F 0.53mm ID	Vial Number	: 18
Sample Name	: EPA1-12-A1F 2ul inj.	Injection Number	: 1
Run Time Bar Code:	2212 bf 4/16/96	Sequence Line	: 13
Acquired on	: 14 Apr 96 ~~10:12~~ PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 10:11 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:



Data File Name : C:\HPCHEM\3\DATA\3041496\018F1301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~10:12~~ PM
Report Created on: 15 Apr 96 07:56 AM
Last Recalib on : 15 Apr 96 07:53 AM
Multiplier : 1

Ind Am 1F, RTX-35, 30m 0.53mm ID HP3F 2212 Dr 4/15/96 2nd inj

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 13
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000730

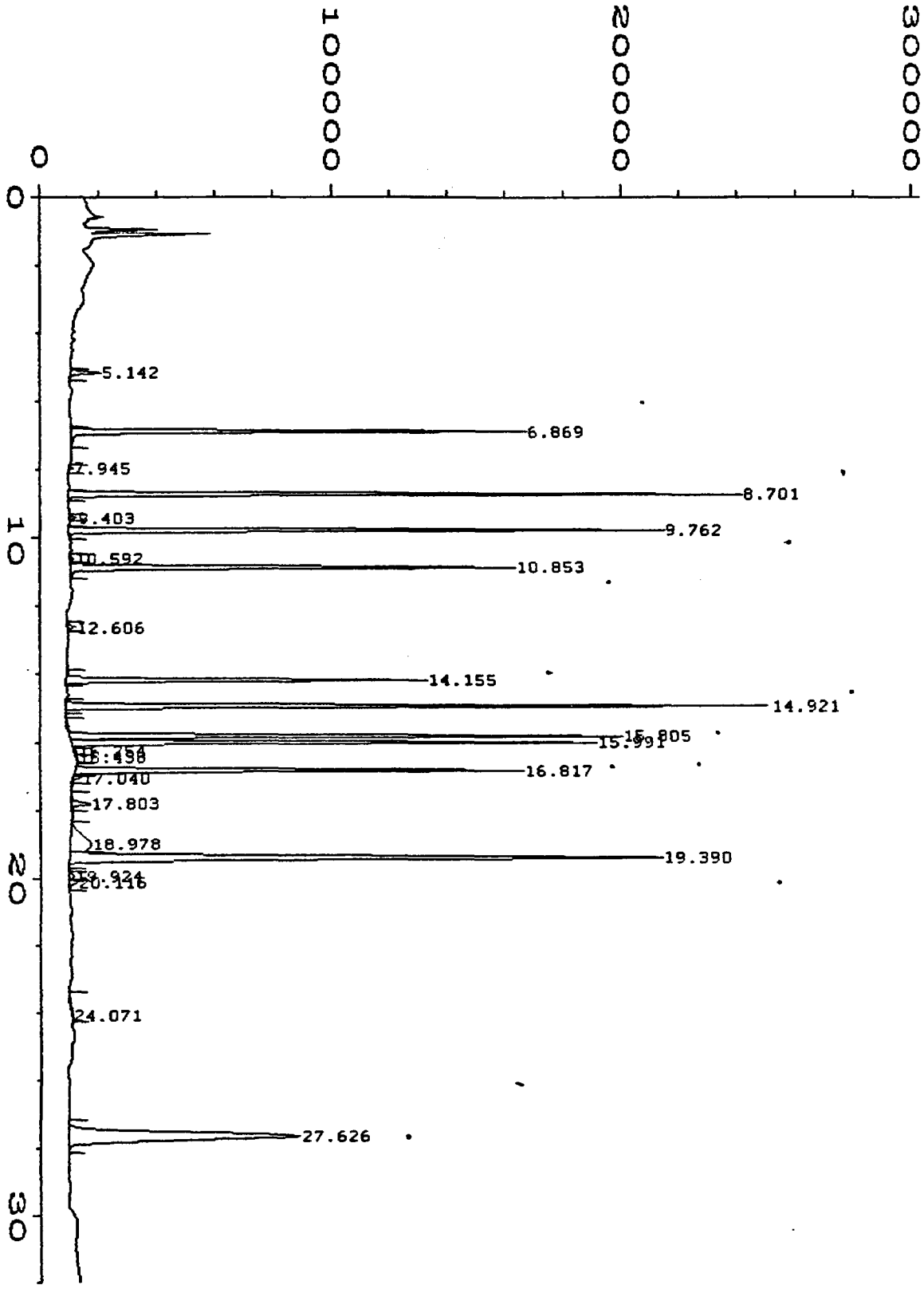
Data File Name : C:\HPCHEM\3\DATA\3041496\021F1501.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-13-A|F
Run Time Bar Code:
Acquired on : 15 Apr 96 00:02 AM
Report Created on: 15 Apr 96 02:47 PM
Last Recalib on : 15 Apr 96 02:47 PM
Multiplier : 4
Sample Info : INDAH|F , HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 15
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\021F1501.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.869	745490	BV	0.074	1	0.160	TCX
8.701	1081019	VV	0.074	1	0.160	alpha-BHC
9.762	973004	BB	0.075	1	0.160	gamma-BHC
10.853	836663	VB	0.086	1	0.160	HEPTACHLOR
14.155	655111	BV	0.082	1	0.160	ENDOSULFAN I
14.921	1251420	BB	0.081	1	0.320	DIELDRIN
15.805	959535	BV	0.080	1	0.320	ENDRIN
15.991	842146	VV	0.073	1	0.320	4,4'-DDD
16.817	807268	BV	0.082	1	0.320	4,4'-DDT
19.390	1557526	VB	0.119	1	1.600	METHOXYCHLOR
27.626	1236206	BV	0.245	1	0.320	DCB

000731



Data File Name : C:\HPCHEM\3\DATA\3041496\021F1501.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-13-A1F
Run Time Bar Code:
Acquired on : 15 Apr 96 00:02 AM
Report Created on: 15 Apr 96 08:13 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 1
Sample Info : INDAH1F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 15
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000732

Injection C: <PESTEPA> 3 JUNKCAL,13,1

Acquired on 23-Apr-96 at 22:08:51
Modified on 25-Apr-80 at 09:40:48
Reported on 25-Apr-96 at 09:55:55

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 08:39:34
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 09:46:12
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-11-AF1
Sample ID.....: INDALF1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 16

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 0.2500
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.502	109902	0.0100	TCX
3	6.316	108974	0.0100	alpha-BHC
4	7.129	101195	0.0100	gamma-BHC
5	7.609	116962	0.0100	HEPTACHLOR
8	11.431	91042	0.0100	ENDOSULFAN I
9	13.169	179974	0.0200	DIELDRIN
10	14.293	150236	0.0200	ENDRIN
11	17.453	119099	0.0200	4,4'-DDD
12	18.893	107887	0.0200	4,4'-DDT
13	24.729	383434	0.1000	METHOXYCHLOR
14	29.671	162980	0.0200	DCB
Total		1631685	0.2500	
Residual		91655	7.8363E-003	

VG Data Systems - Minichrom v1.66

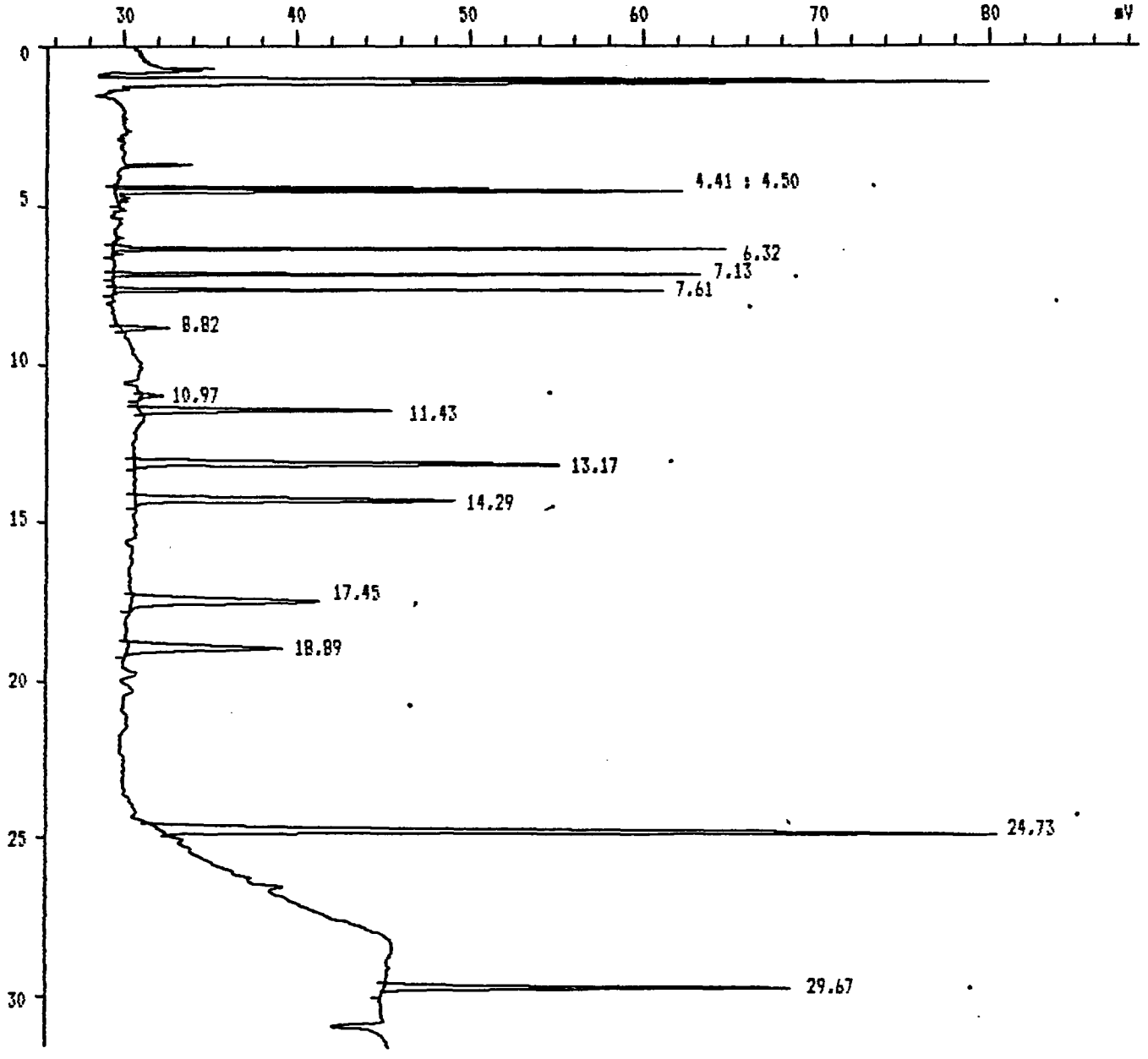
LONG PLOT

000733

Injection C: <PESTEPA> 3 JUNKCAL,13,1

Sample name.....: EPA1-11-AF1
Sample ID.....: INDAL F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 22:08:51
Reported on 25-Apr-96 at 09:57:03



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000734

Injection C: <PESTEPA> 3 JUNKCAL,17,1

Acquired on 24-Apr-96 at 00:41:46
Modified on 25-Apr-80 at 09:41:32
Reported on 25-Apr-96 at 10:02:23

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 08:39:34
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 09:46:12
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-12-A F1
Sample ID.....: INDAM F1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 20

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.507	410032	0.0400	TCX
4	6.320	511675	0.0400	alpha-BHC
6	7.133	489857	0.0400	gamma-BHC
7	7.613	463583	0.0400	HEPTACHLOR
10	11.436	388860	0.0400	ENDOSULFAN I
11	13.173	808639	0.0800	DIELDRIN
12	14.293	664514	0.0800	ENDRIN
13	17.458	567508	0.0800	4,4'-DDD
14	18.898	519030	0.0800	4,4'-DDT
16	24.733	1463175	0.4000	METHOXYCHLOR
20	29.671	596809	0.0800	DCB
Total		6883680	1.0000	
Residual		146137	0.0221	

VG Data Systems - Minichrom v1.66

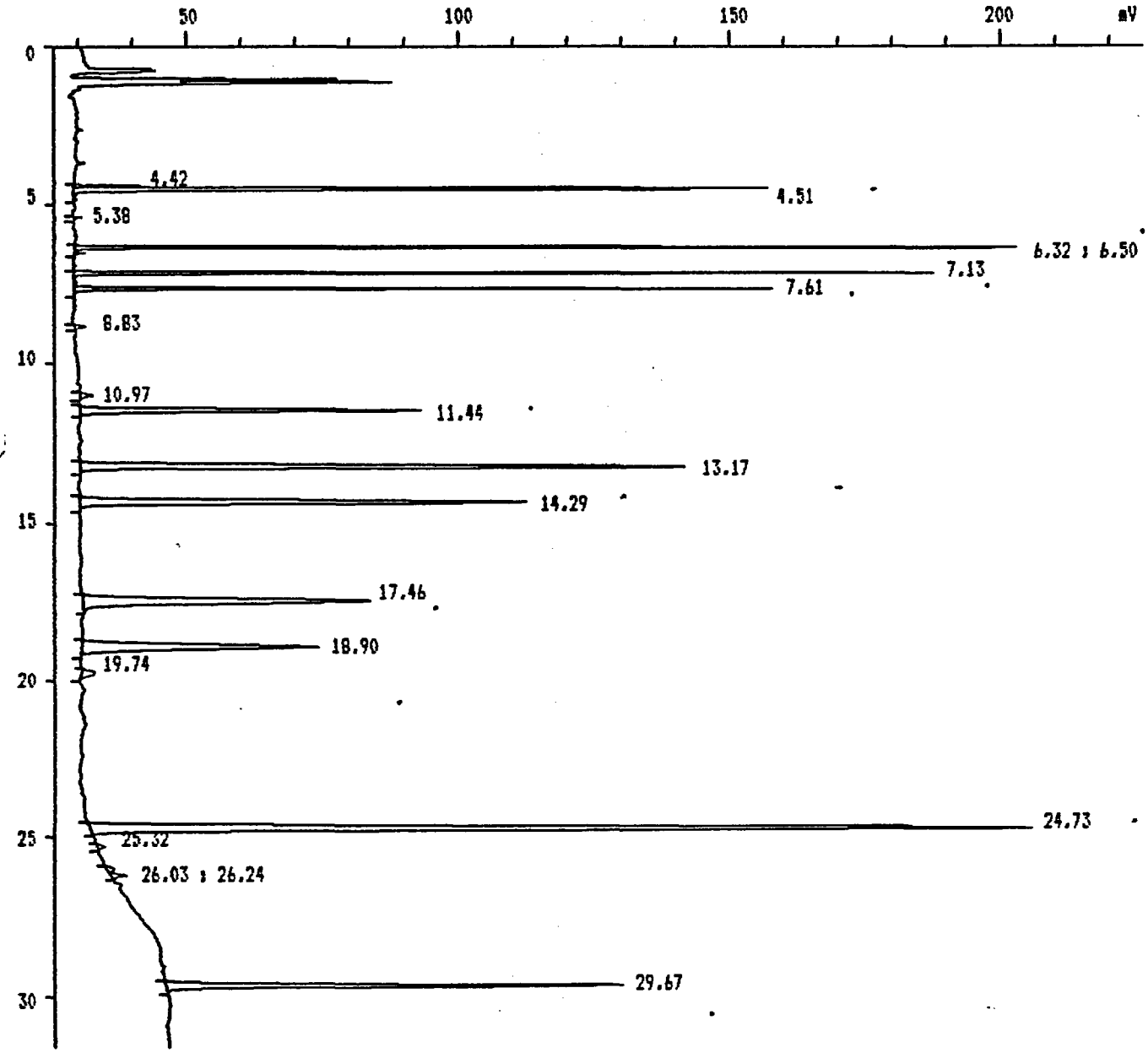
LONG PLOT

Injection C: <PESTEPA> 3 JUNKCAL,17,1

000735

Sample name.....: EPA1-12-AF1
Sample ID.....: INDAMF1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 00:41:46
Reported on 25-Apr-96 at 10:03:31



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000736

Injection C: <PESTEPA> 3 JUNKCAL,21,1

Acquired on 24-Apr-96 at 03:14:39
Modified on 25-Apr-80 at 09:42:20
Reported on 25-Apr-96 at 10:08:36

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 08:39:34
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 09:46:12
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-13-A F1
Sample ID.....: INDAH F1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 24

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 4.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.507	1495748	0.1600	TCX
4	6.320	2136991	0.1600	alpha-BHC
7	7.133	1972924	0.1600	gamma-BHC
9	7.613	1745460	0.1600	HEPTACHLOR
11	11.436	1599346	0.1600	ENDOSULFAN I
13	13.173	3316223	0.3200	DIELDRIN
14	14.293	2784720	0.3200	ENDRIN
15	17.458	2628388	0.3200	4,4'-DDD
16	18.893	2445888	0.3200	4,4'-DDT
19	24.733	5338931	1.6000	METHOXYCHLOR
24	29.671	2090234	0.3200	DCB
Total		27554850	4.0000	
Residual		611123	0.1070	

VG Data Systems - Minichrom v1.66

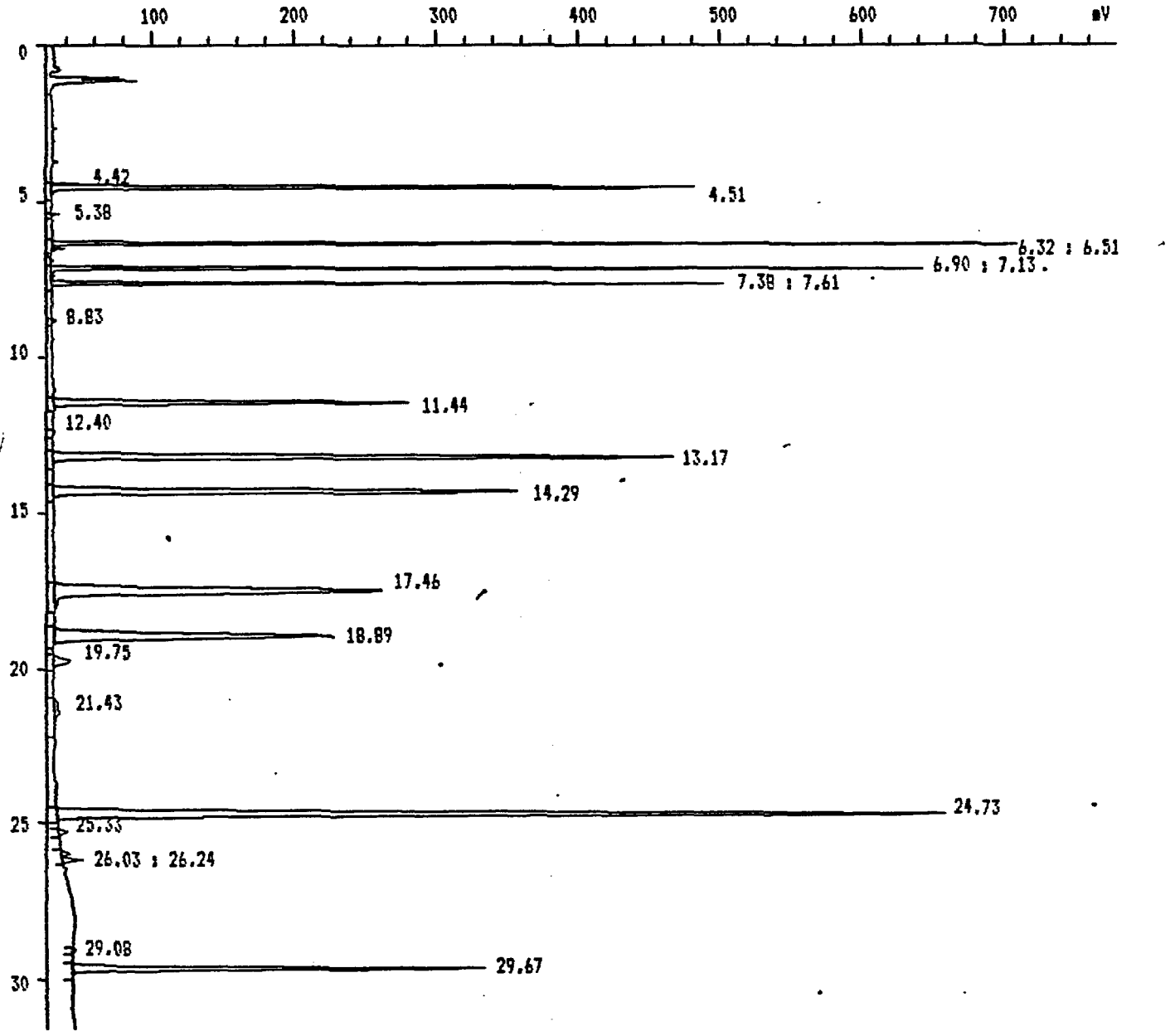
LONG PLOT

000737

Injection C: <PESTEPA> 3 JUNKCAL,21,1

Sample name.....: EPA1-13-A FI
Sample ID.....: INDAH FI
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 03:14:39
Reported on 25-Apr-96 at 10:09:44



External Standard Report

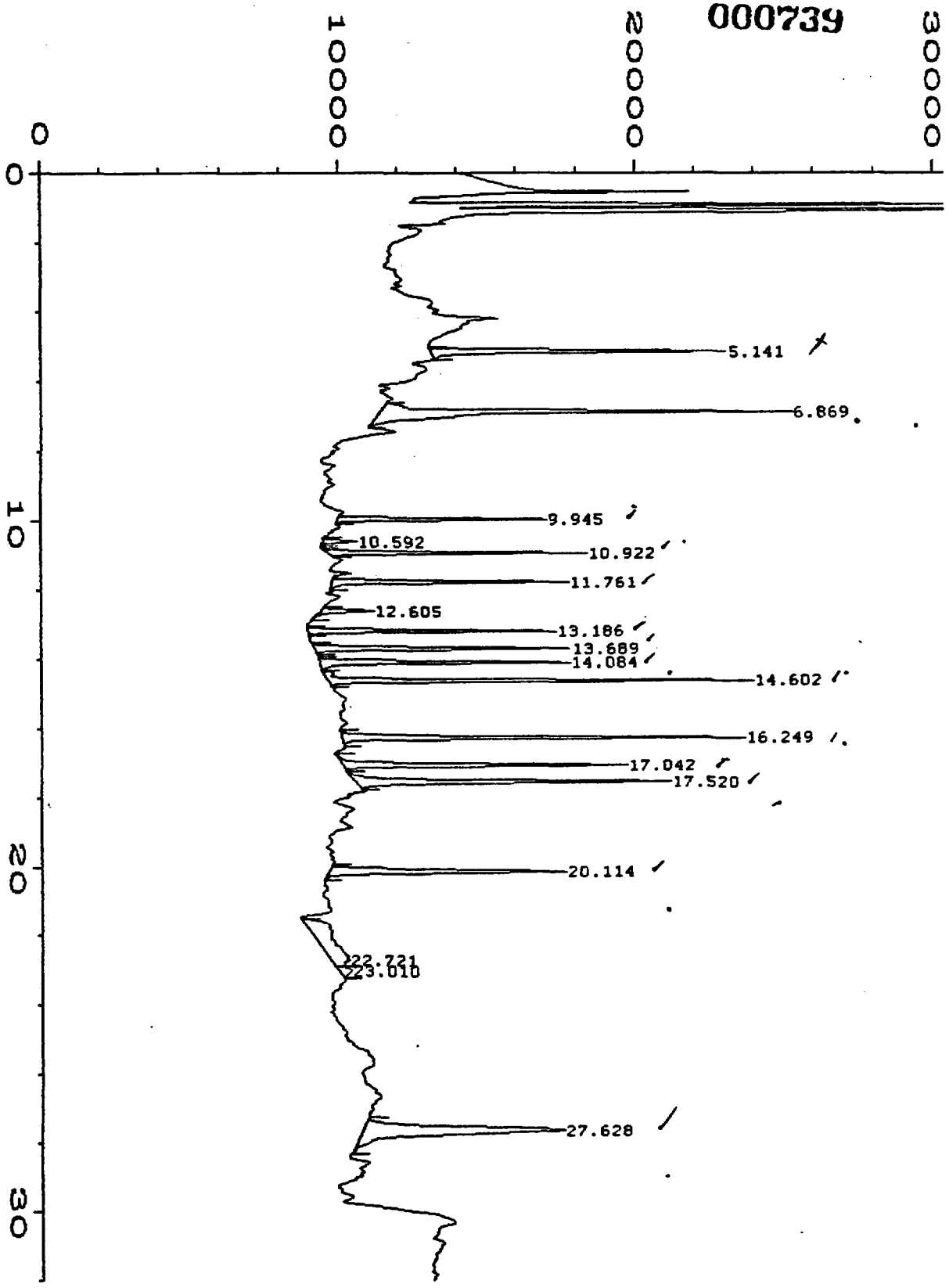
Data File Name : C:\HPCHEM\3\DATA\3041496\016F1201.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-15-A|F
Run Time Bar Code:
Acquired on : 14 Apr 96 08:59 PM
Report Created on: 15 Apr 96 02:47 PM
Last Recalib on : 15 Apr 96 02:47 PM
Multiplier : 0.25
Sample Info : INDBL|F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number 000738
Vial Number : 16
Injection Number : 1
Sequence Line : 12
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\016F1201.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.869	102869	BV	0.103	1	0.0100	TCX
9.945	31367	BB	0.069	1	0.0100	beta-BHC
10.922	36209	BV	0.065	1	0.0100	delta-BHC
11.761	42257	BB	0.082	1	0.0100	ALDRIN
13.186	42196	BB	0.079	1	0.0100	HEPT. EPOXIDE
13.689	44722	BB	0.080	1	0.0100	g. CHLORDANE
14.084	45770	BV	0.083	1	0.0100	a. CHLORDANE
14.602	68291	PB	0.073	1	0.0200	4,4'-DDE
16.249	71039	BB	0.080	1	0.0200	ENDOSULFAN II
17.042	55351	BB	0.089	1	0.0200	ENDRIN ALDEHYDE
17.520	68906	BV	0.098	1	0.0200	ENDO. SULFATE
20.114	58968	BB	0.116	1	0.0200	ENDRIN KETONE
17.628	109207	BB	0.247	1	0.0200	DCB

000739



Data File Name	: C:\HPCHEM\3\DATA\3041496\016F1201.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 16
Sample Name	: EPA1-15-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 12
Acquired on	: 14 Apr 96 ~~08~~ 09:59 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 08:13 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: INDBL1F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

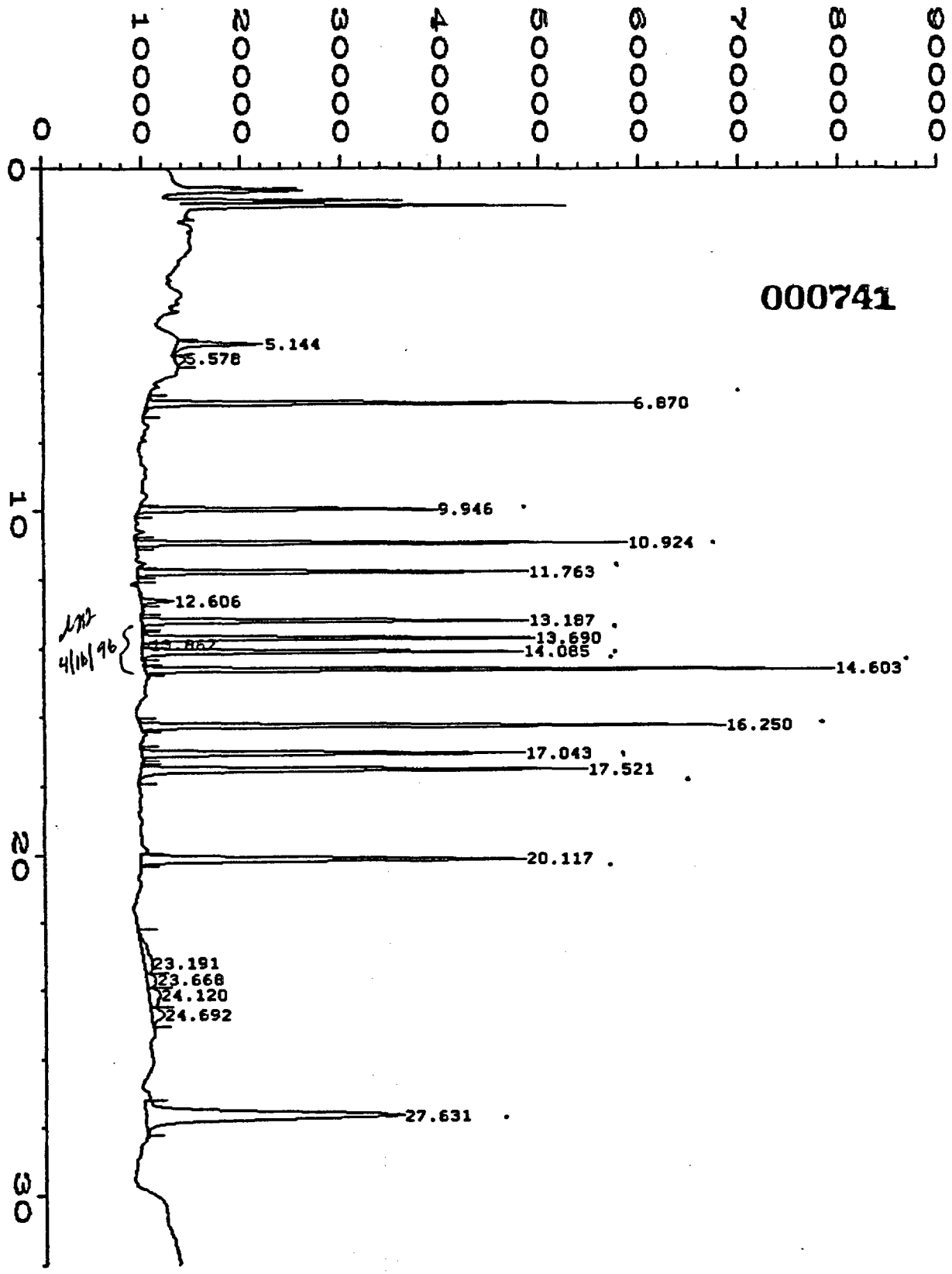
External Standard Report

Data File Name	: C:\HPCHEM\3\DATA\3041496\020F1401.D		000740
Operator	: DLP	Page Number	: 1
Instrument	: HP3F IndBM1F	Vial Number	: 20
Sample Name	: EPA1-16-A1F RTX-35, 30 m, 0.53mm ID 2 ul	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 14
Acquired on	: 14 Apr 96 ~~11~~ 23:25 PM 4/16/96	Instrument Method:	EPAMTH_F.MTH
Report Created on:	16 Apr 96 09:53 AM	Analysis Method	: INDB3F.MTH
Last Recalib on	: 16 Apr 96 09:51 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\3\DATA\3041496\020F1401.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.870	224596	BB	0.071	1	0.0400	TCX
9.946	135471	BB	0.071	1	0.0400	beta-BHC
10.924	207336	BB	0.066	1	0.0400	delta-BHC
11.763	199454	VB	0.080	1	0.0400	ALDRIN
13.187	197307	BB	0.079	1	0.0400	HEPT. EPOXIDE
13.690	206009	MF	0.087	1	0.0400	g. CHLORDANE
14.085	204632	FM	0.089	1	0.0400	a. CHLORDANE
14.603	313290	BV	0.071	1	0.0800	4,4'-DDE
16.250	293334	BV	0.078	1	0.0800	ENDOSULFAN II
17.043	212752	BB	0.087	1	0.0800	ENDRIN ALDEHYDE
17.521	269270	BB	0.093	1	0.0800	ENDO. SULFATE
20.117	289103	VB	0.118	1	0.0800	ENDRIN KETONE
27.631	416509	VV	0.248	1	0.0800	DCB

User Modified



Data File Name	: C:\HPCHEM\3\DATA\3041496\020F1401.D				
Operator	: DLP	Ind BM IF	RTX-35	Page Number	: 1
Instrument	: HP3F		0.53 mm ID	Vial Number	: 20
Sample Name	: EPA1-16-A IF			Injection Number	: 1
Run Time Bar Code:		23	30 M	Sequence Line	: 14
Acquired on	: 14 Apr 96	~~11~~:25 PM		Instrument Method:	EPAMTH_F.MTH
Report Created on:	16 Apr 96	09:53 AM	2 ul. inj.	Analysis Method	: INDB3F.MTH
Last Recalib on	: 16 Apr 96	09:51 AM		Sample Amount	: 0
Multiplier	: 1			ISTD Amount	:

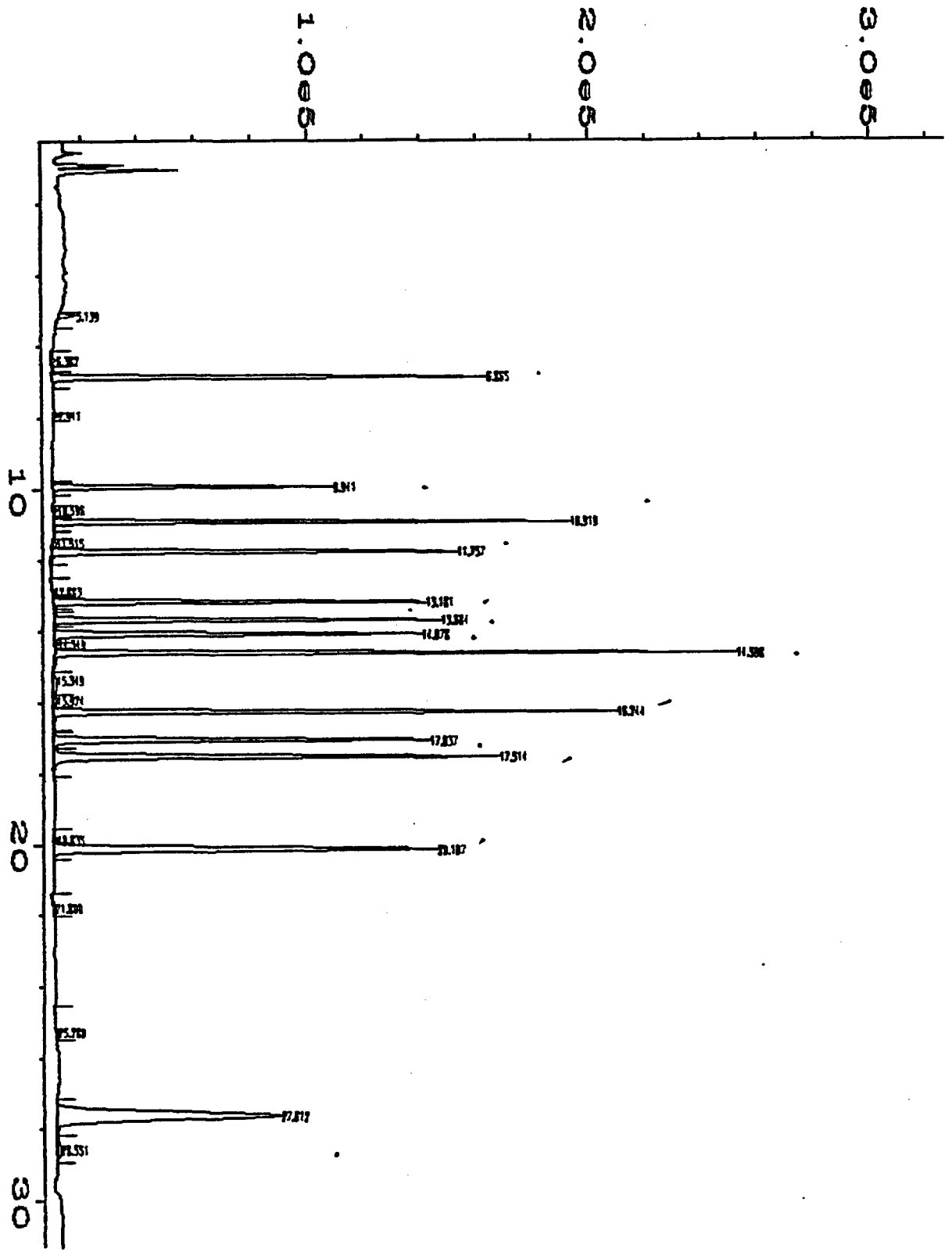
External Standard Report

000742

Data File Name	: C:\HPCHEM\3\DATA\3041496\024F1601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 24
Sample Name	: EPA1-17-AIF	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 16
Acquired on	: 15 Apr 96 01:51 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 02:48 PM	Analysis Method	: INDB3F.MTH
Last Recalib on	: 15 Apr 96 02:48 PM	Sample Amount	: 0
Multiplier	: 4	ISTD Amount	:
Sample Info	: INDBHIF, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

Sig. 1 in C:\HPCHEM\3\DATA\3041496\024F1601.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.865	714694	BB	0.072	1	0.160	TCX
9.941	459776	BB	0.072	1	0.160	beta-BHC
10.919	824816	BB	0.071	1	0.160	delta-BHC
11.757	778383	VV	0.085	1	0.160	ALDRIN
13.181	690013	BB	0.082	1	0.160	HEPT. EPOXIDE
13.684	719433	BV	0.082	1	0.160	g. CHLORDANE
14.078	689885	VV	0.083	1	0.160	a. CHLORDANE
14.598	1151710	BB	0.075	1	0.320	4,4'-DDE
16.244	1035322	VB	0.082	1	0.320	ENDOSULFAN II
17.037	764948	BV	0.090	1	0.320	ENDRIN ALDEHYDE
17.514	981786	VV	0.097	1	0.320	ENDO. SULFATE
20.107	1070931	VV	0.125	1	0.320	ENDRIN KETONE
27.612	1264947	BV	0.243	1	0.320	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\024F1601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 24
Sample Name	: EPA1-17-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 16
Acquired on	: 15 Apr 96 01:51 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 03:20 PM	Analysis Method	: INDB3F.MTH
Last Recalib on	: 15 APR 96 02:48 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Ind BH IF. RTX-35 30m 0.53mm ID 2uL inj.

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000744

Injection C: <PESTEPA> 3 JUNKCAL,15,1

Acquired on 23-Apr-96 at 23:25:19
Modified on 25-Apr-80 at 09:43:36
Reported on 25-Apr-96 at 09:59:09

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 08:39:34
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 09:46:12
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-15-AF1
Sample ID.....: INDBLF1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 18

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 0.2500
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.502	102146	0.0100	TCX
3	8.293	85807	0.0100	ALDRIN
4	8.889	80634	0.0100	beta-BHC
5	9.684	73609	0.0100	delta-BHC
6	10.347	105353	0.0100	HEPT. EPOXIDE
8	11.653	103484	0.0100	g. CHLORDANE
9	11.902	103888	0.0100	a. CHLORDANE
10	12.387	142510	0.0200	4,4'-DDE
11	17.667	161042	0.0200	ENDOSULFAN II
12	21.436	105106	0.0200	ENDRIN ALDEHYDE
13	24.204	130931	0.0200	ENDO. SULFATE
14	26.236	116006	0.0200	ENDRIN KETONE
16	29.667	148999	0.0200	DCB
Total		1459515	0.1900	
Residual		125606	0.0126	

VG Data Systems - Minichrom v1.66

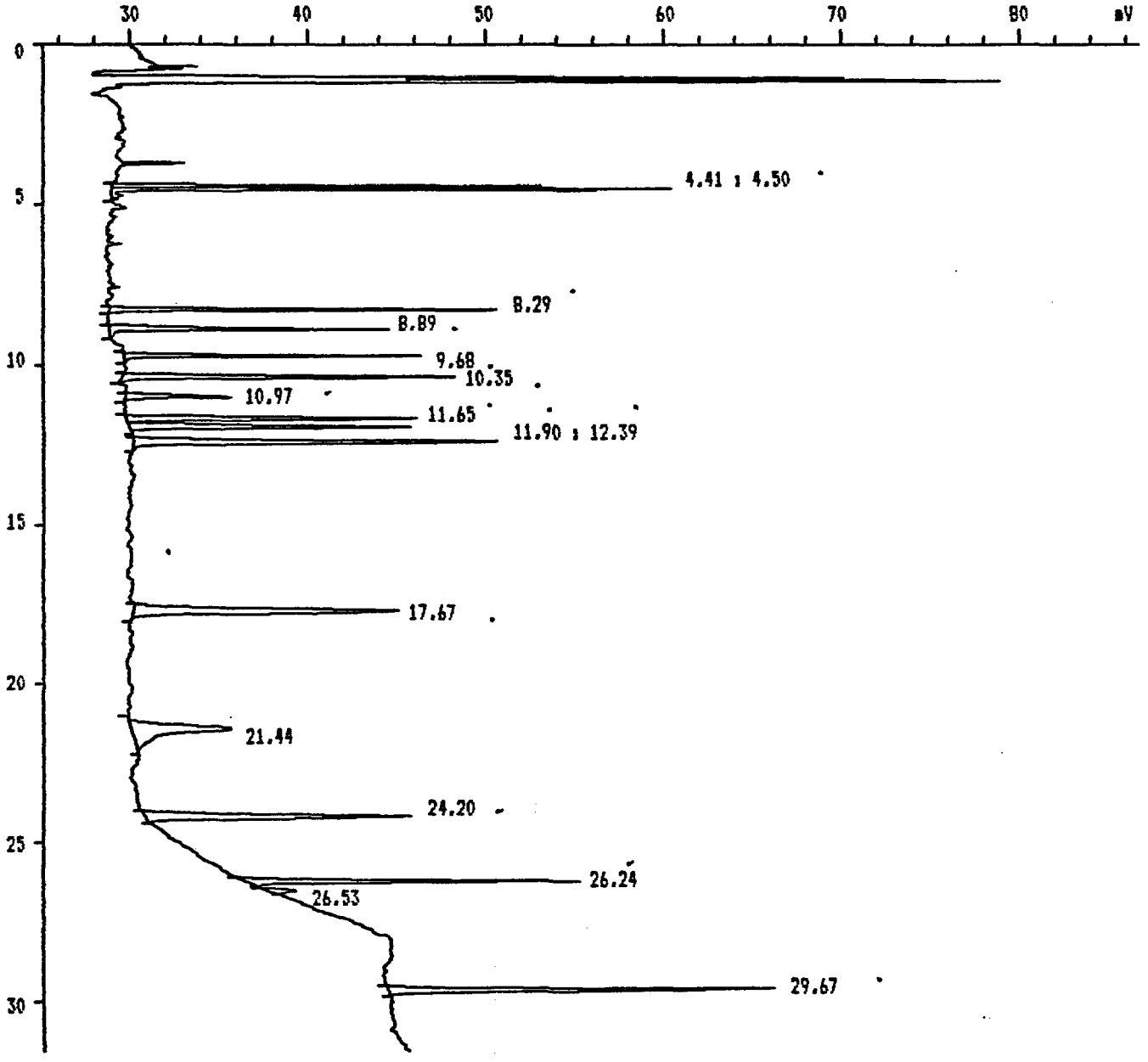
LONG PLOT

000745

njection C: <PESTEPA> 3 JUNKCAL,15,1

Sample name.....: EPA1-15-AF1
Sample ID.....: INDBL F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 23:25:19
Reported on 25-Apr-96 at 10:00:20



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000746

Injection C: <PESTEPA> 3 JUNKCAL,19,1

Acquired on 24-Apr-96 at 01:58:15
Modified on 25-Apr-80 at 09:44:34
Reported on 25-Apr-96 at 10:05:24

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 08:39:34
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 09:46:12
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-16-AF1
Sample ID.....: INDBMF1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 22

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.498	392237	0.0400	TCX
5	8.293	389703	0.0400	ALDRIN
6	8.884	272512	0.0400	beta-BHC
7	9.684	384997	0.0400	delta-BHC
8	10.342	419961	0.0400	HEPT. EPOXIDE
10	11.653	430346	0.0400	g. CHLORDANE
11	11.902	429300	0.0400	a. CHLORDANE
12	12.382	678865	0.0800	4,4'-DDE
13	17.658	694472	0.0800	ENDOSULFAN II
14	21.436	475646	0.0800	ENDRIN ALDEHYDE
15	24.200	570968	0.0800	ENDO. SULFATE
16	26.231	533600	0.0800	ENDRIN KETONE
17	29.667	557313	0.0800	DCB
Total		6229920	0.7600	
Residual		90673	9.0447E-003	

VG Data Systems - Minichrom v1.66

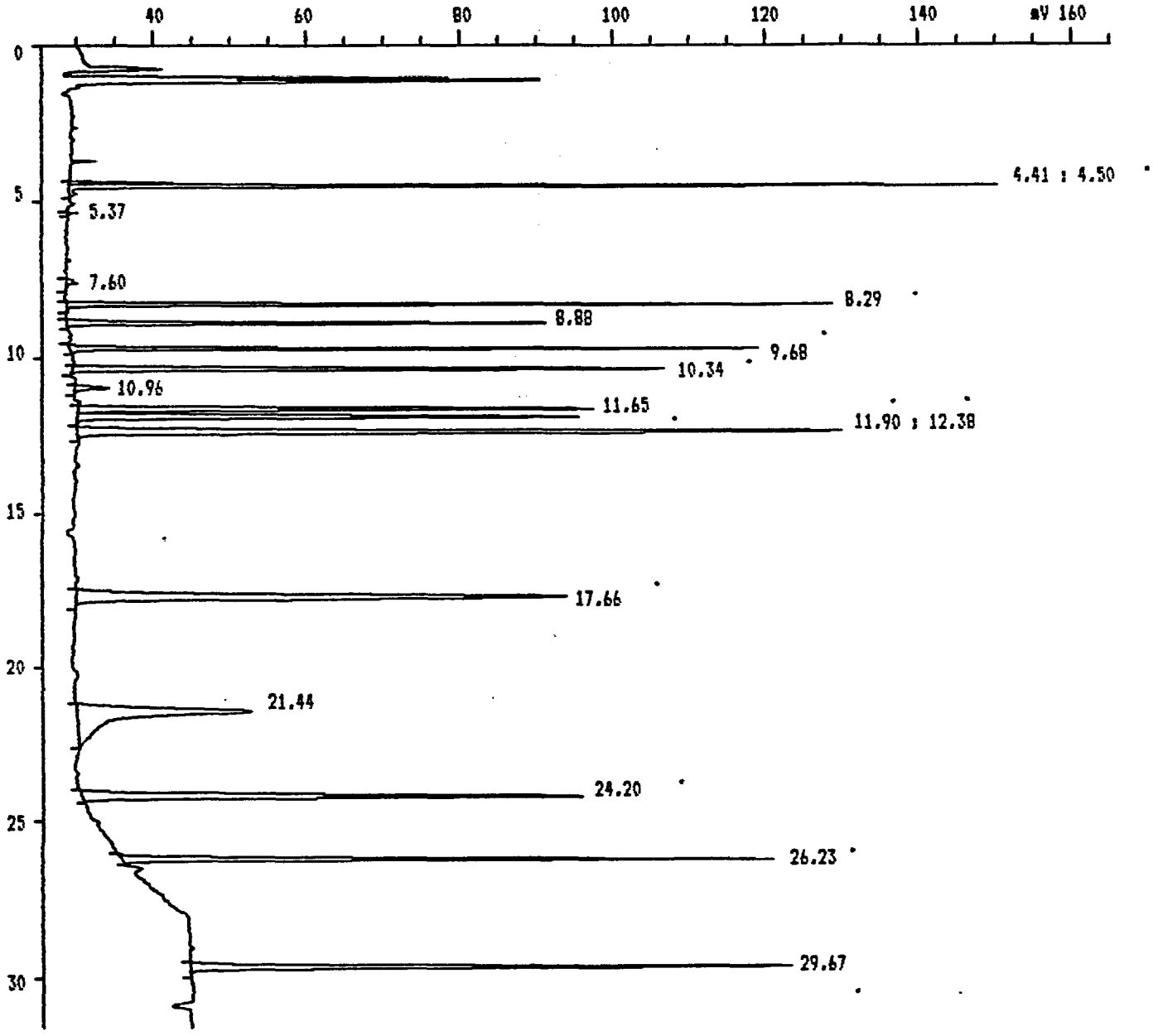
LONG PLOT

Injection C: <PESTEPA> 3 JUNKCAL,19,1

000747

Sample name.....: EPA1-16-AF1
Sample ID.....: INDBM F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 01:58:15
Reported on 25-Apr-96 at 10:06:35



VG Data Systems - Minichrom v1.66

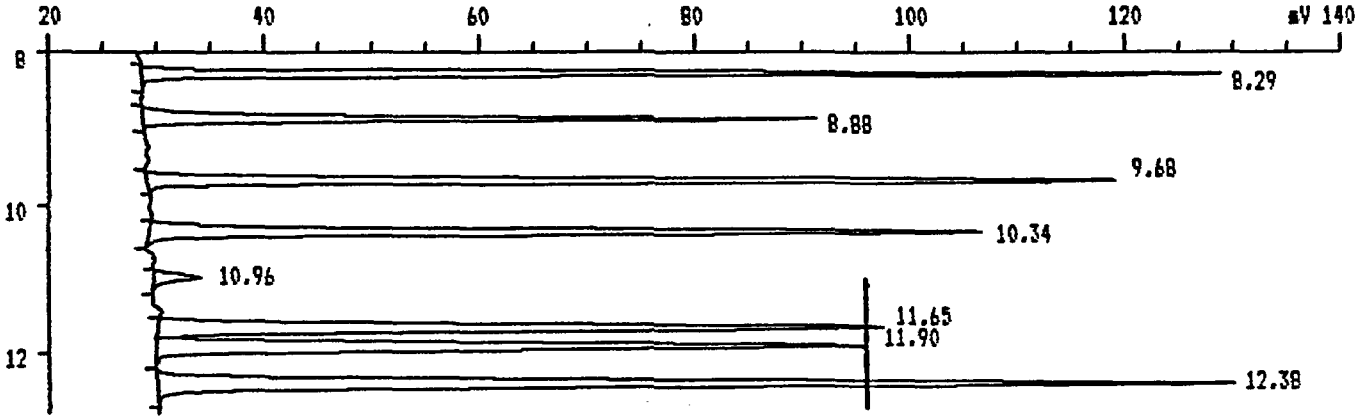
LONG PLOT

000748

Injection C: <PESTEPA> 3 JUNKCAL,19,1

Sample name.....: EPA1-16-A FI
Sample ID.....: INDBM FI
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 01:58:15
Reported on 24-Apr-96 at 10:22:03



$\frac{90}{93} = 97\%$

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000749

Injection C: <PESTEPA> 3 JUNKCAL,23,1

Acquired on 24-Apr-96 at 04:31:05
Modified on 25-Apr-80 at 09:45:22
Reported on 25-Apr-96 at 10:11:32

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 08:39:34
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 09:46:12
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-17-A F1
Sample ID.....: INDBH F1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 26

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 4.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.507	1443655	0.1600	TCX
8	8.302	1646616	0.1600	ALDRIN
9	8.893	1023125	0.1600	beta-BHC
12	9.693	1843338	0.1600	delta-BHC
13	10.347	1694836	0.1600	HEPT. EPOXIDE
15	11.662	1802899	0.1600	g. CHLORDANE
16	11.907	1768071	0.1600	a. CHLORDANE
17	12.391	2982135	0.3200	4,4'-DDE
19	17.671	2920210	0.3200	ENDOSULFAN II
20	21.440	2239791	0.3200	ENDRIN ALDEHYDE
21	24.204	2446318	0.3200	ENDO. SULFATE
22	26.240	2333995	0.3200	ENDRIN KETONE
25	29.671	2025528	0.3200	DCB
Total		26170518	3.0400	
Residual		183433	0.0213	

VG Data Systems - Minichrom v1.66

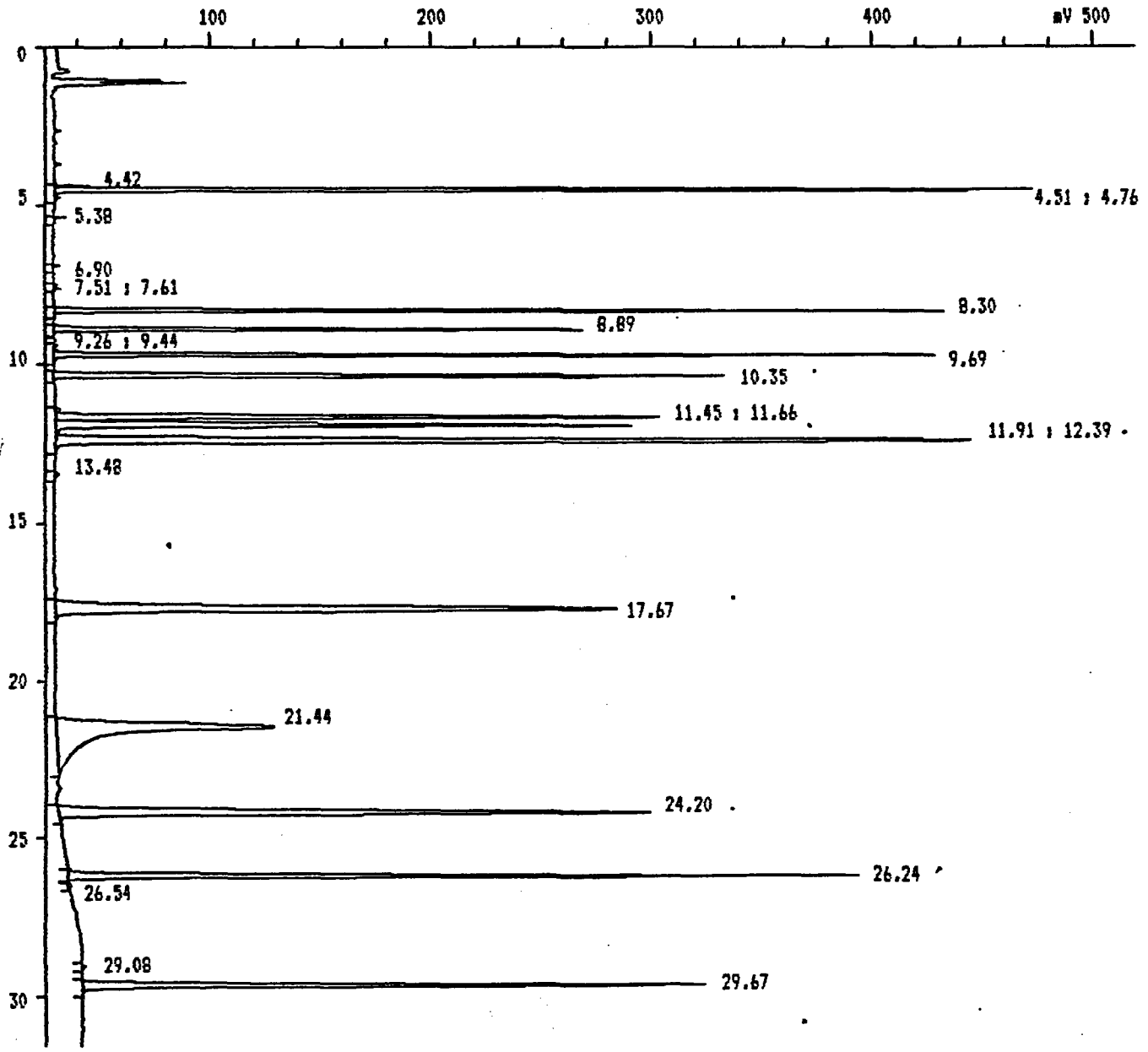
LONG PLOT

000750

Injection C: <PESTEPA> 3 JUNKCAL,23,1

Sample name.....: EPA1-17-A F1
Sample ID.....: INDBH F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 04:31:05
Reported on 25-Apr-96 at 10:12:43



External Standard Report

000751

Data File Name : C:\HPCHEM\3\DATA\3041496\006F0401.D
Operator : DLP
Instrument : HP3 F
Sample Name : EPA1-20-A IF
Run Time Bar Code:
Acquired on : 14 Apr 96 02:55 PM
Report Created on: 15 Apr 96 04:25 PM
Last Recalib on : 15 Apr 96 04:25 PM
Multiplier : 1
Sample Info : AR1660 IF, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

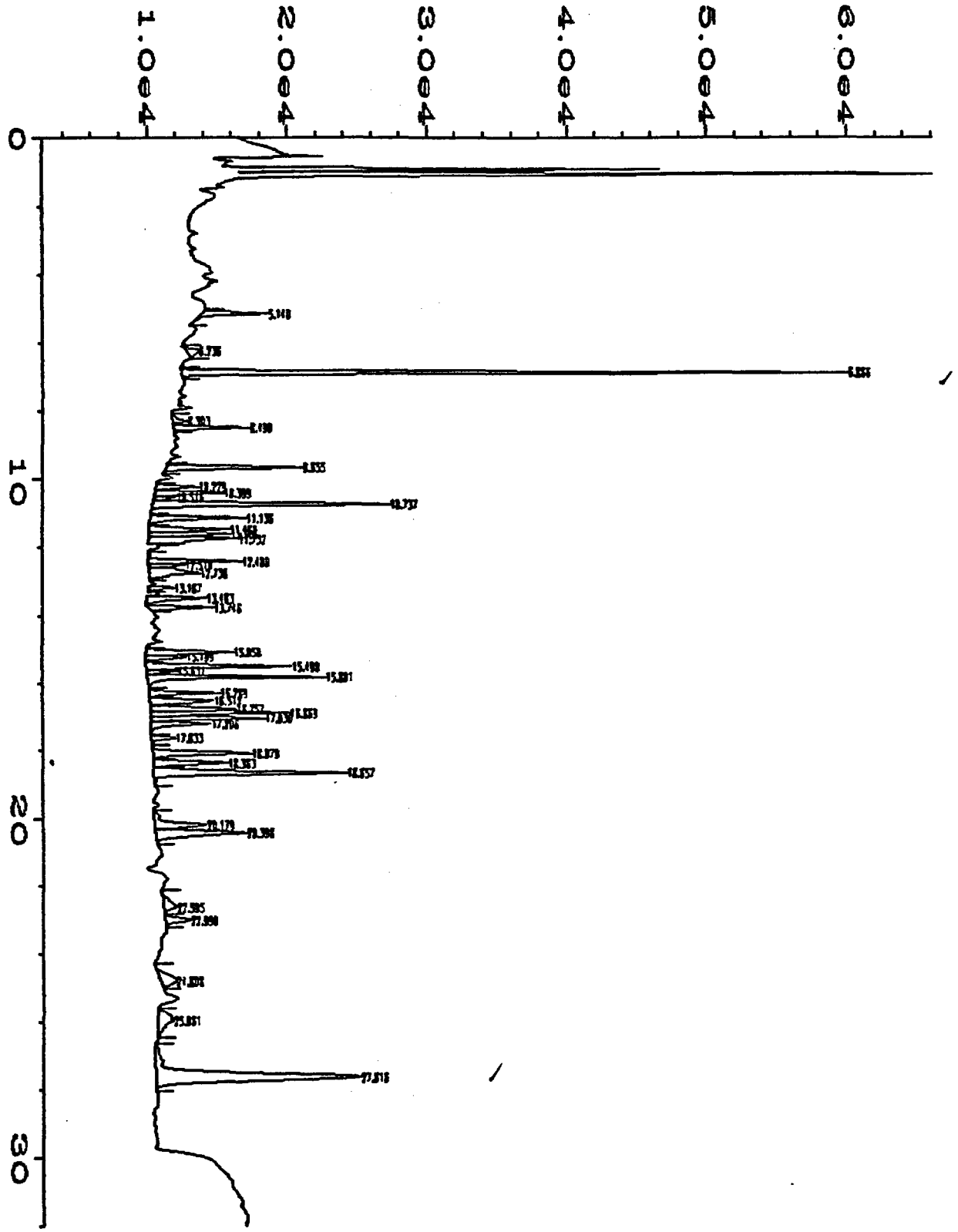
14 for 4/15/96

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 4
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR60-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\006F0401.D

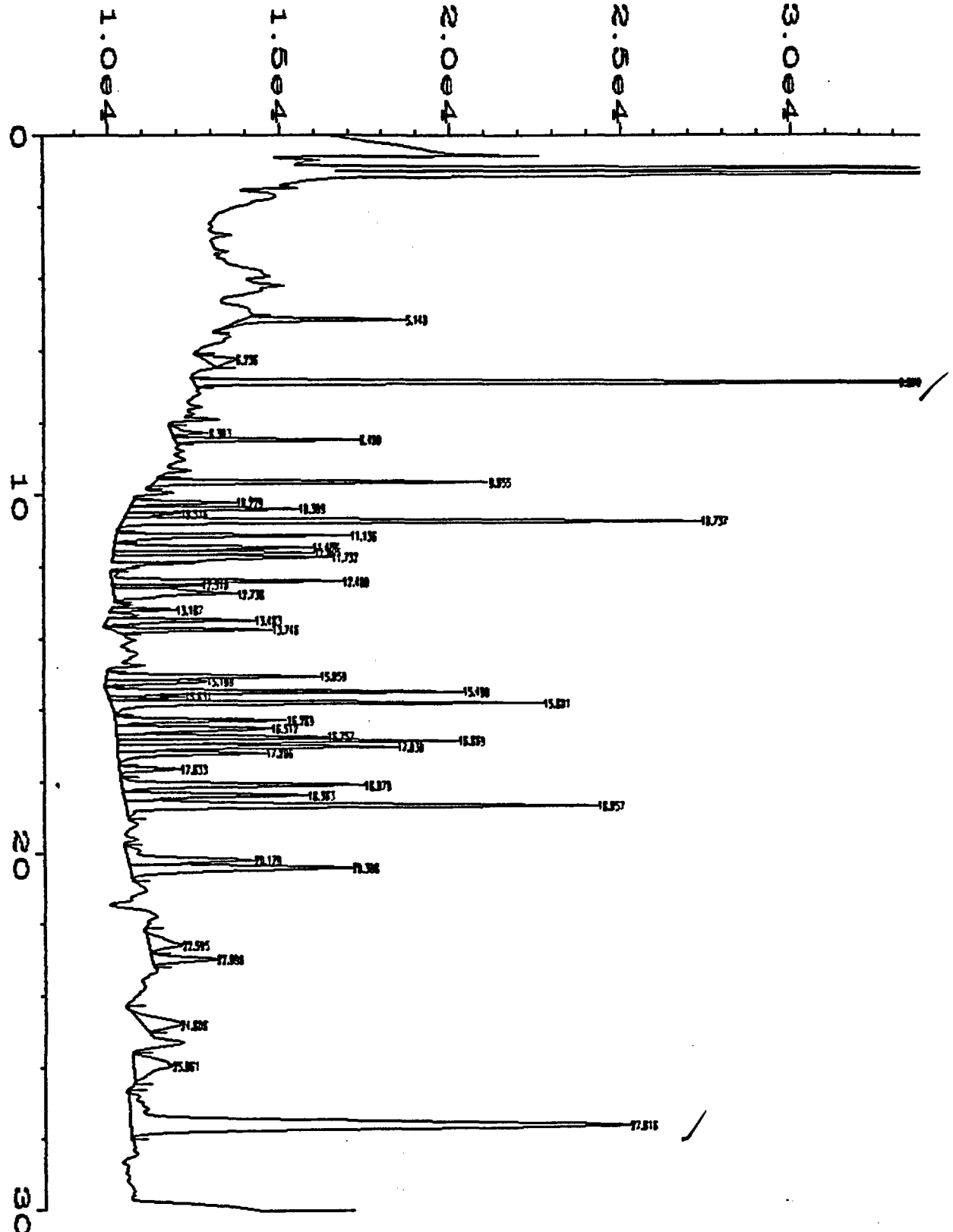
Ret Time	Area	Type	Width	Ref#	ng	Name
6.866	214715	BB	0.071	1	0.0400	TCX
9.655	53250	BB	0.086	1	0.200	AROCLOR-1016
10.737	108437	VB	0.102	1	0.200	AROCLOR-1016-2
11.136	38850	BV	0.085	1	0.200	AROCLOR-1016-3
11.468	33923	VV	0.086	1	0.200	AROCLOR-1016-4
11.605	32063	VV	0.081	1	0.200	AROCLOR-1016-5
15.490	56515	PV	0.083	1	0.200	AROCLOR-1260
15.801	68559	VB	0.083	1	0.200	AROCLOR-1260-2
16.869	57758	VV	0.087	1	0.200	AROCLOR-1260-3
18.079	49038	BV	0.107	1	0.200	AROCLOR-1260-4
18.657	105430	VB	0.115	1	0.200	AROCLOR-1260-5
27.616	234328	BV	0.244	1	0.0400	DCB

000752



Data File Name	: C:\HPCHEM\3\DATA\3041496\006F0401.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 6
Sample Name	: EPA1-20-A	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 14 Apr 96 02:55 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:25 PM	Analysis Method	: AR60-3F.MTH
Last Recalib on	: 15 Apr 96 04:25 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1660\F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

14 JDV 4/15/96



Data File Name	: C:\HPCHEM\3\DATA\3041496\006F0401.D		
Operator	: DLP AR1660IF	Page Number	: 1
Instrument	: HP3F RTX-35, 0.53mm	Vial Number	: 6
Sample Name	: EPA1-20-A1F 2µl	Injection Number	: 1
Event Time Bar Code:	14 55	Sequence Line	: 4
Acquired on	: 14 Apr 96 02:55 PM 30m	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 09:14 AM	Analysis Method.	: AR60-3F.MTH
Last Recalib on	: 15 APR 96 04:25 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

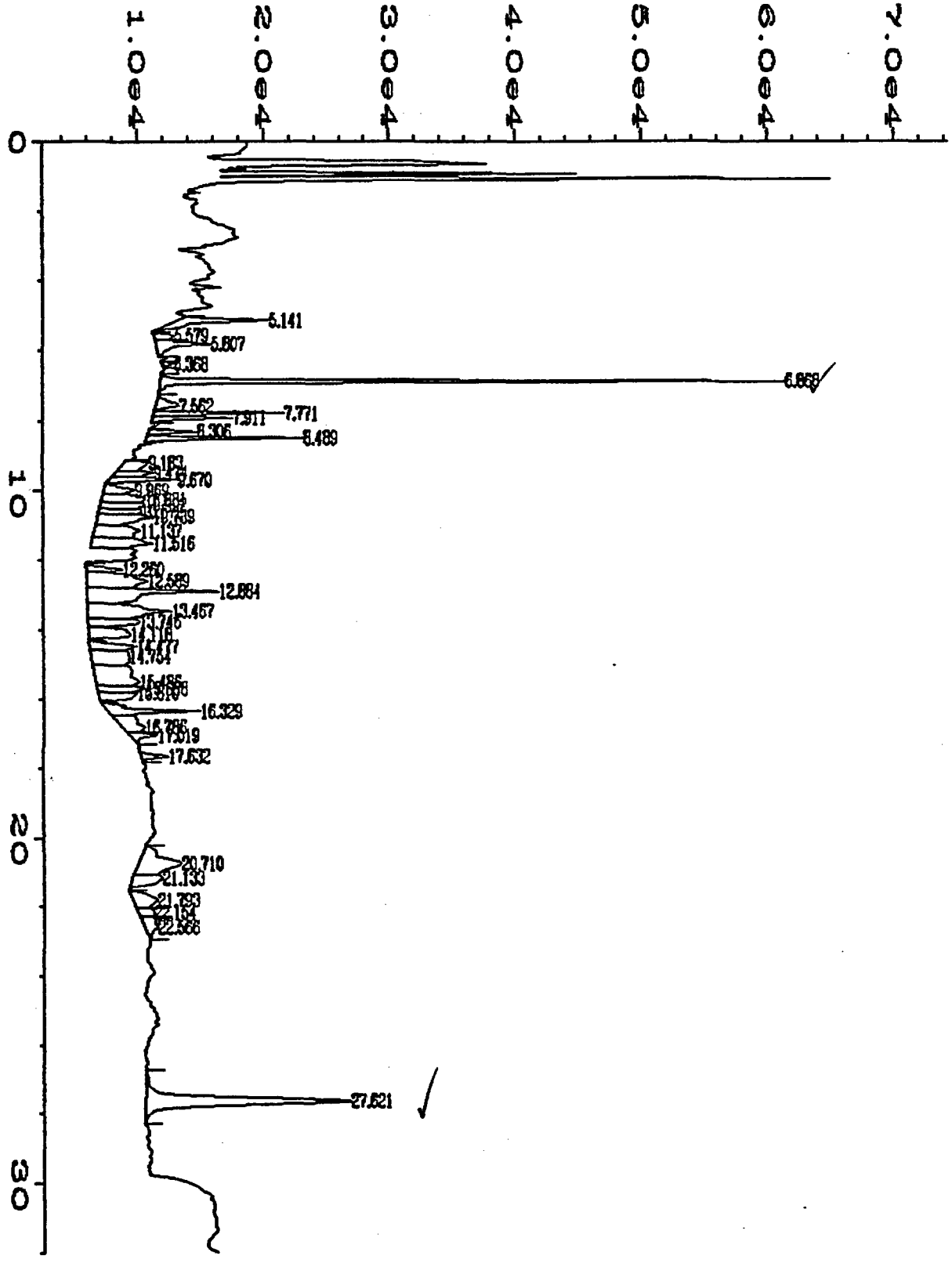
External Standard Report

000754

Data File Name : C:\HPCHEM\3\DATA\3041496\007F0501.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-22-A|F
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~08~~ 15:32 PM
Report Created on: 15 Apr 96 04:26 PM
Last Recalib on : 15 Apr 96 04:26 PM
Multiplier : 1
Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 5
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR21-3F.MTH
Sample Amount : 0
ISTD Amount :
Sample Info : AR1221 IF, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

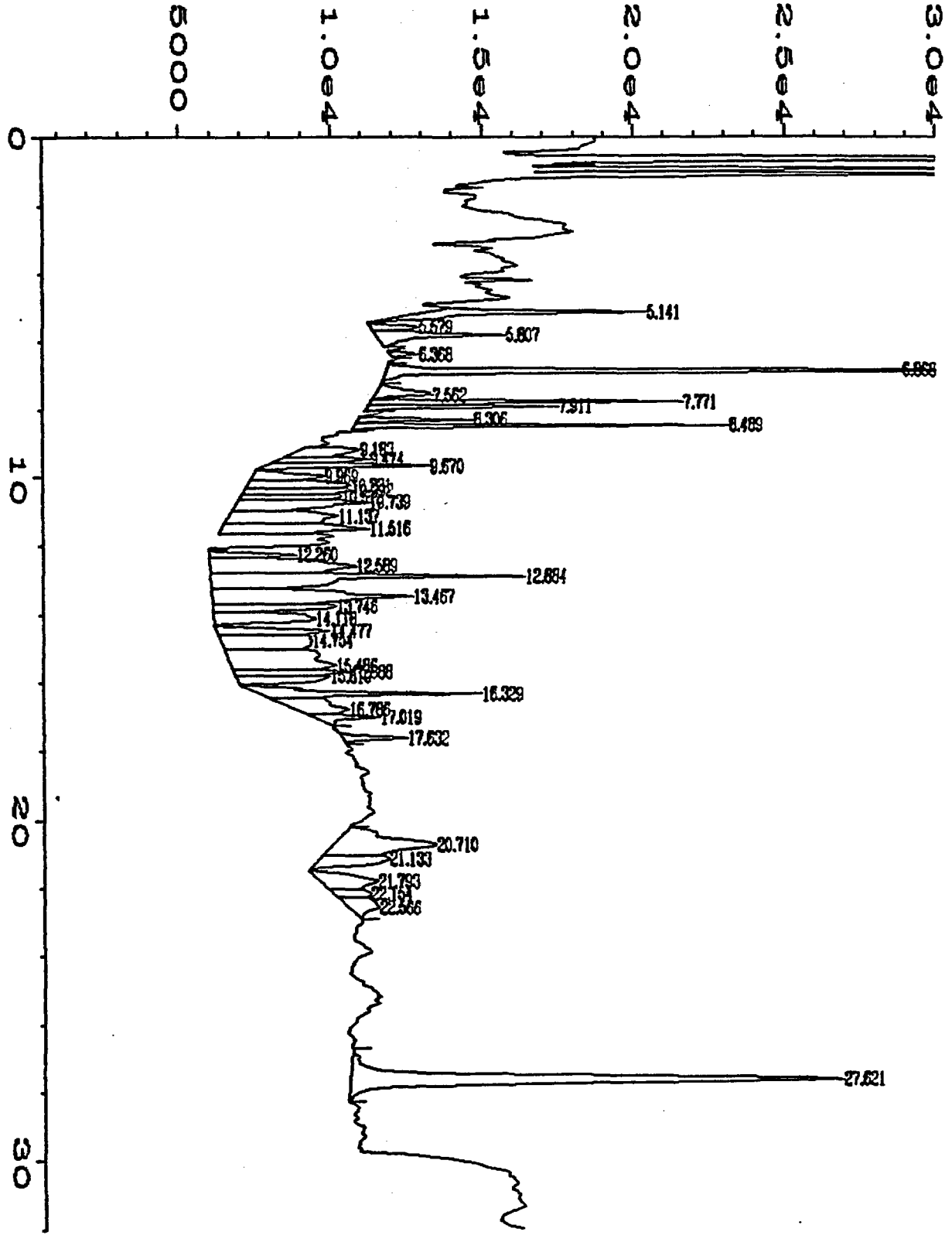
Sig. 1 in C:\HPCHEM\3\DATA\3041496\007F0501.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	236499	BB	0.073	1	0.0400	TCX
7.911	32251	VV	0.078	1	0.400	AROCLOR-1221
8.306	17983	VV	0.073	1	0.400	AROCLOR-1221-2
8.489	56456	VV	0.072	1	0.400	AROCLOR-1221-3
27.621	263364	BV	0.251	1	0.0400	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\007F0501.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 7
Sample Name	: EPA1-22-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 5
Acquired on	: 14 Apr 96 03:32 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:26 PM	Analysis Method	: AR21-3F.MTH
Last Recalib on	: 15 Apr 96 04:26 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1221 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

000756



Data File Name : C:\HPCHEM\3\DATA\3041496\007F0501.D
Operator : DLP AR12211F
Instrument : HP3F RTX-35, 0.53mm
Sample Name : EPA1-22-A1F
Real Time Bar Code: 15 32 2/11
Acquired on : 14 Apr 96 03:32 PM 30M
Report Created on: 16 Apr 96 09:15 AM
Last Recalib on : 15 APR 96 04:26 PM
Multiplier : 1

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 5
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR21-3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

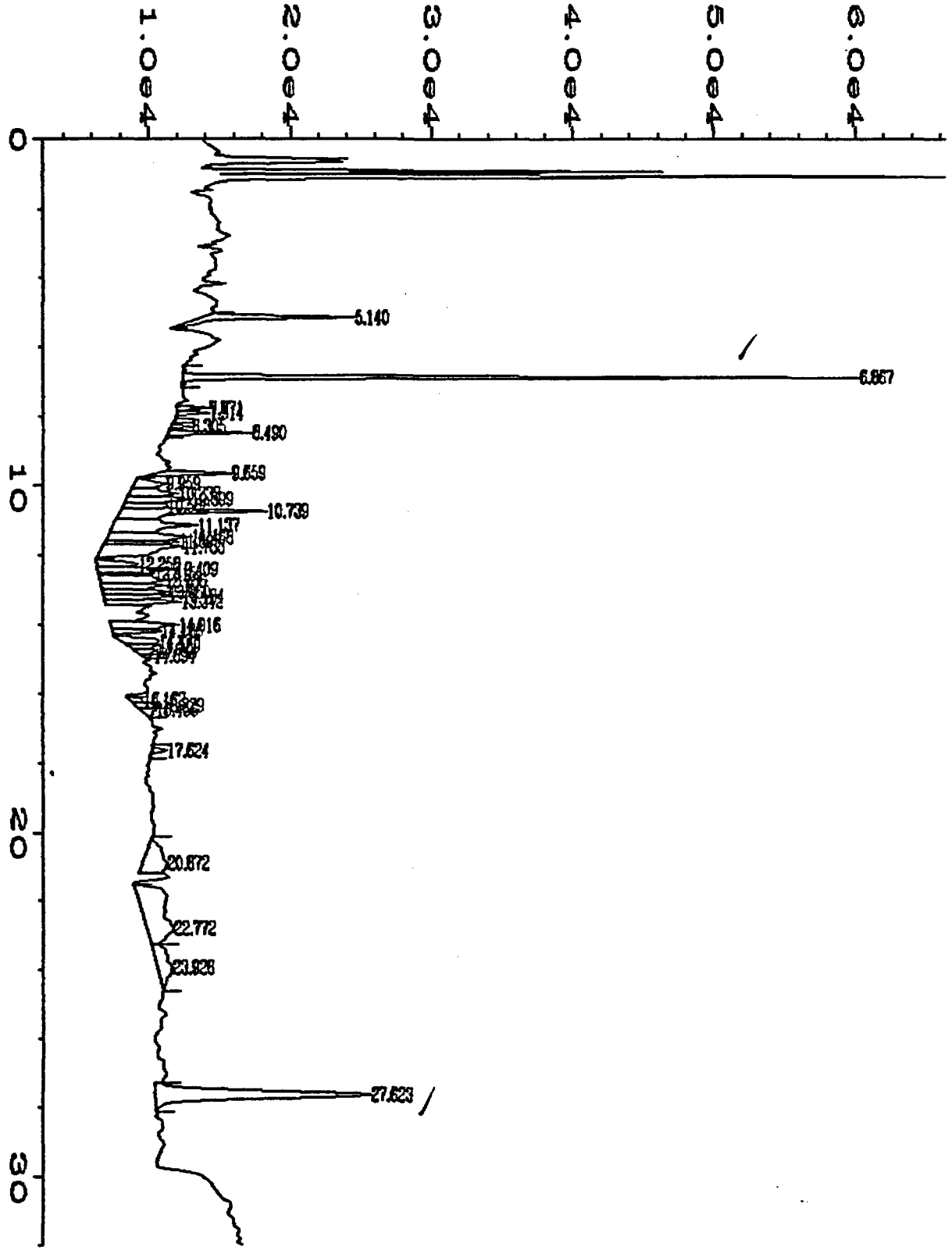
000757

Data File Name : C:\HPCHEM\3\DATA\3041496\008F0601.D
Operator : DLP
Instrument : HP3 F
Sample Name : EPA1-24-A IF
Run Time Bar Code:
Acquired on : 14 Apr 96 04:08 PM
Report Created on: 15 Apr 96 04:27 PM
Last Recalib on : 15 Apr 96 04:27 PM
Multiplier : 1
Sample Info : AR1232 IF, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 6
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR32-3F.MTH
Sample Amount : 0
ISTD Amount :

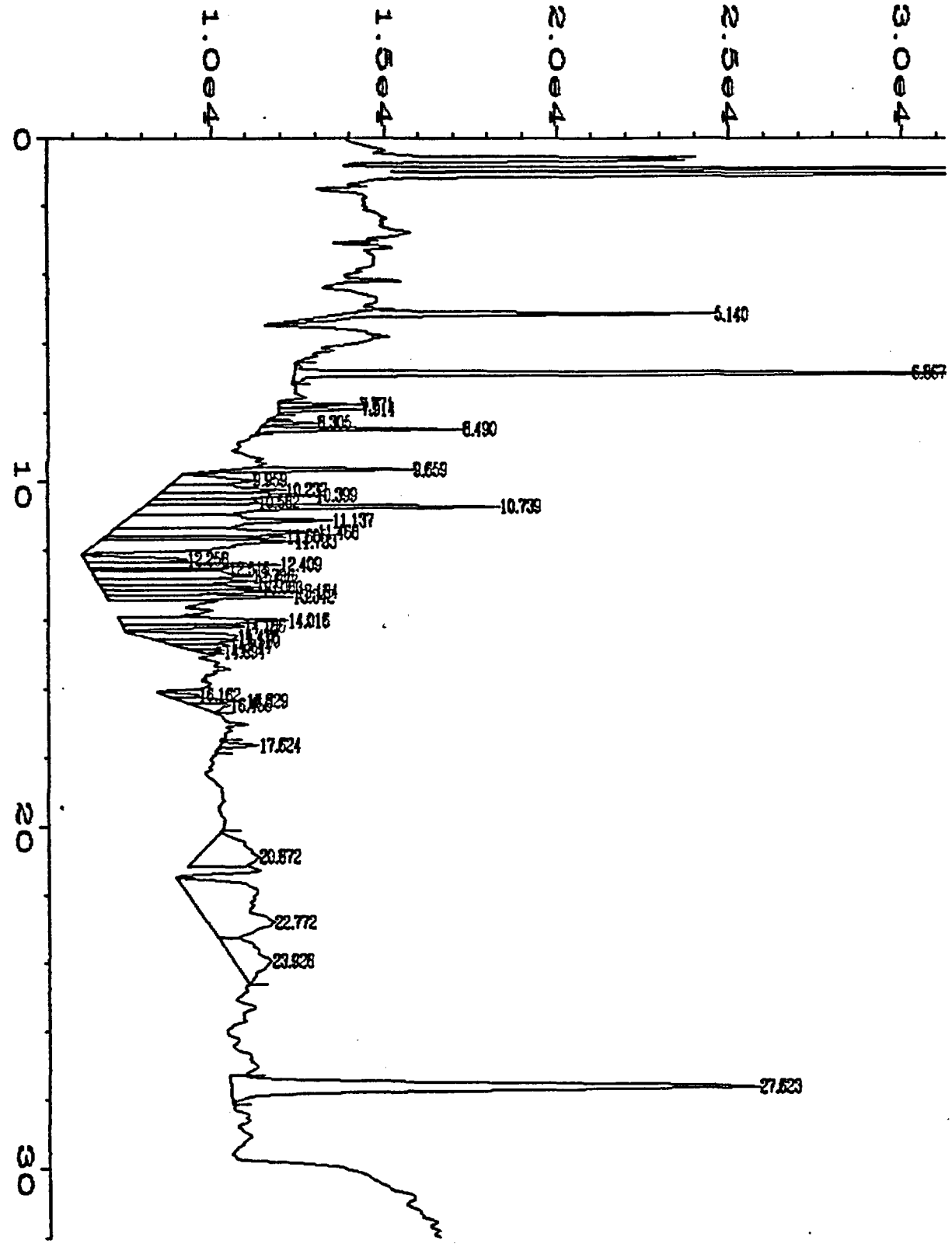
Sig. 1 in C:\HPCHEM\3\DATA\3041496\008F0601.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	221815	BB	0.072	1	0.0400	TCX
8.490	26818	PV	0.071	1	0.200	AROCLOR-1232
9.659	31456	BV	0.090	1	0.200	AROCLOR-1232-2
10.739	103045	VV	0.143	1	0.200	AROCLOR-1232-3
11.137	89053	VV	0.191	1	0.200	AROCLOR-1232-4
11.468	62568	VV	0.141	1	0.200	AROCLOR-1232-5
27.623	236699	VV	0.241	1	0.0400	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\008F0601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 8
Sample Name	: EPA1-24-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 6
Acquired on	: 14 Apr 96 04:08 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:27 PM	Analysis Method	: AR32-3F.MTH
Last Recalib on	: 15 Apr 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1232 1F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

4/15/96



Data File Name	: C:\HPCHEM\3\DATA\3041496\008F0601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 8
Sample Name	: EPA1-24-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 6
Acquired on	: 14 Apr 96 04:08 PM	Instrument Method:	EPAMTH_F.MTH
Report Created on:	16 Apr 96 09:17 AM	Analysis Method	: AR32-3F.MTH
Last Recalib on	: 15 APR 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

AR12321F
RTX-35, 0.53mm
2 µl
30m
16 08

External Standard Report

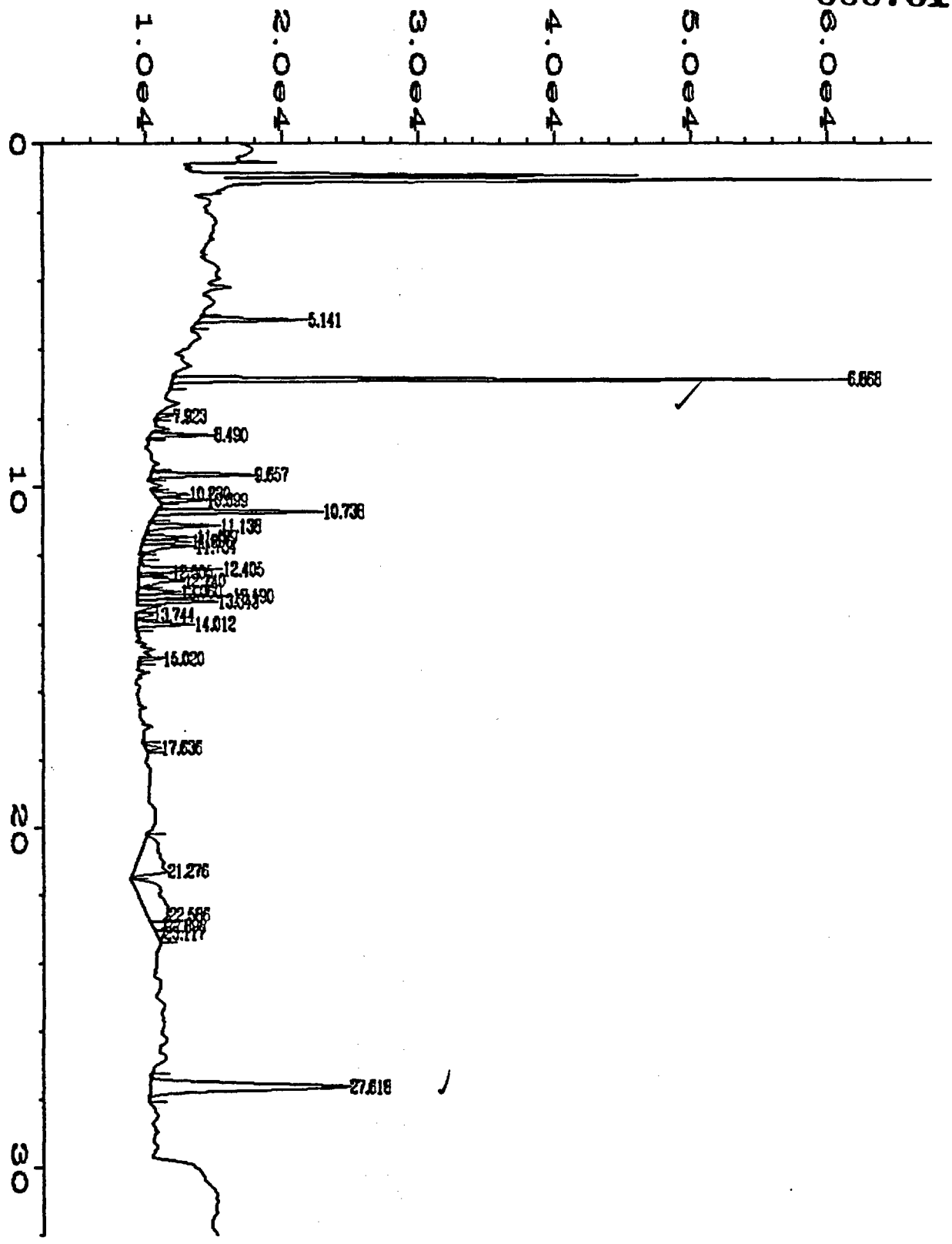
000760

Data File Name	: C:\HPCHEM\3\DATA\3041496\009F0701.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 9
Sample Name	: EPA1-26-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Apr 96 04:44 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:27 PM	Analysis Method	: AR42-3F.MTH
Last Recalib on	: 15 Apr 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1242 1F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

Sig. 1 in C:\HPCHEM\3\DATA\3041496\009F0701.D

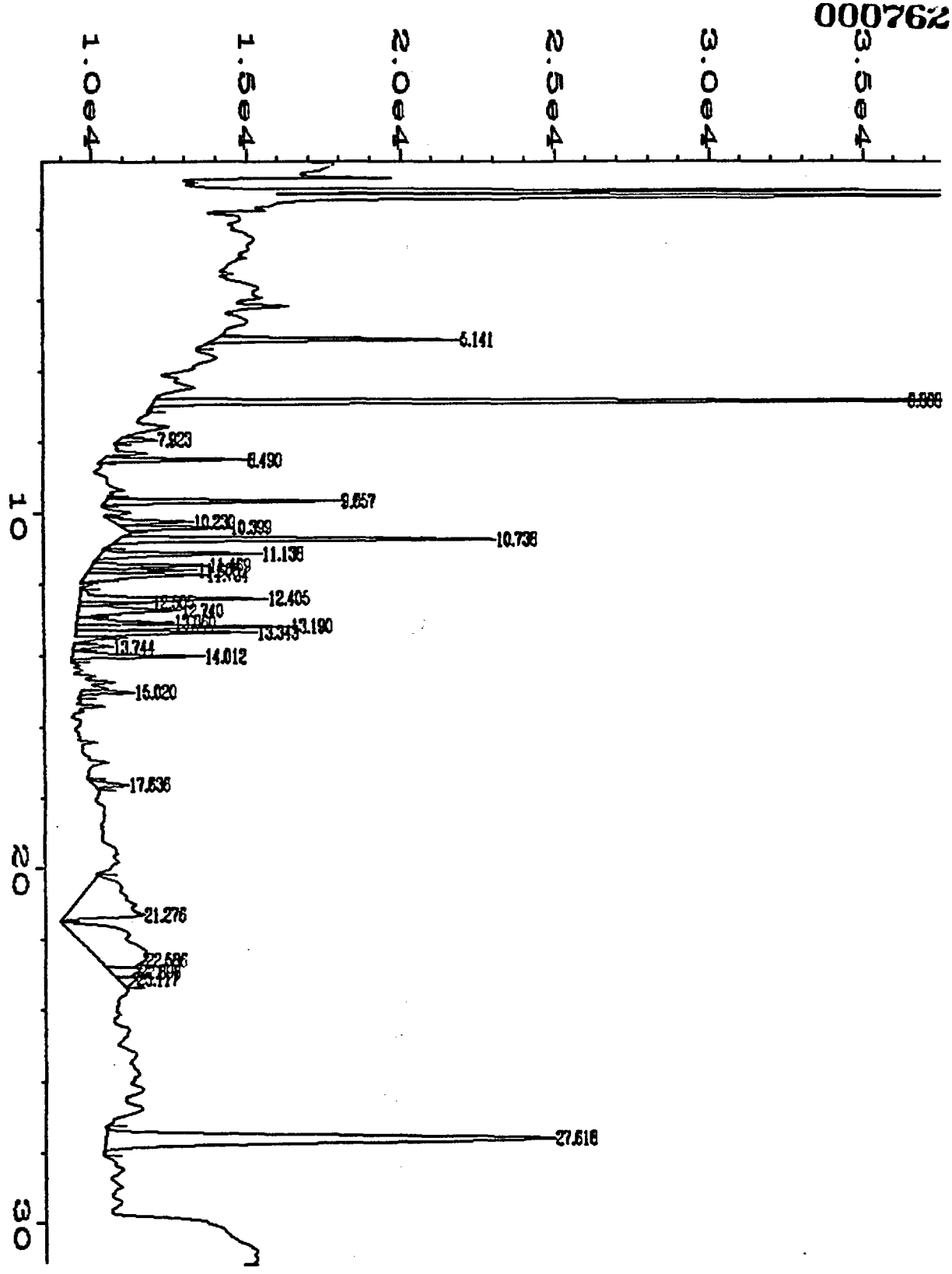
Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	223180	PB	0.070	1	0.0400	TCX
8.490	21857	VV	0.073	1	0.200	AROCLOR-1242
9.657	41614	BB	0.086	1	0.200	AROCLOR-1242-2
10.738	73452	BB	0.098	1	0.200	AROCLOR-1242-3
12.405	37637	BV	0.093	1	0.200	AROCLOR-1242-4
13.190	36442	VV	0.080	1	0.200	AROCLOR-1242-5
27.618	212347	BV	0.226	1	0.0400	DCB

000761



Data File Name	: C:\HPCHEM\3\DATA\3041496\009F0701.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 9
Sample Name	: EPA1-26-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Apr 96 04:44 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:27 PM	Analysis Method	: AR42-3F.MTH
Last Recalib on	: 15 Apr 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1242 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

000762



Data File Name : C:\HPCHEM\3\DATA\3041496\009F0701.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-26-A/F
Real Time Bar Code:
Acquired on : 14 Apr 96 04:44 PM
Report Created on: 16 Apr 96 09:18 AM
Last Recalib on : 15 APR 96 04:27 PM
Multiplier : 1

AR12421F
RTX-35
.53mm
2µl
30M

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 7
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR42-3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000763

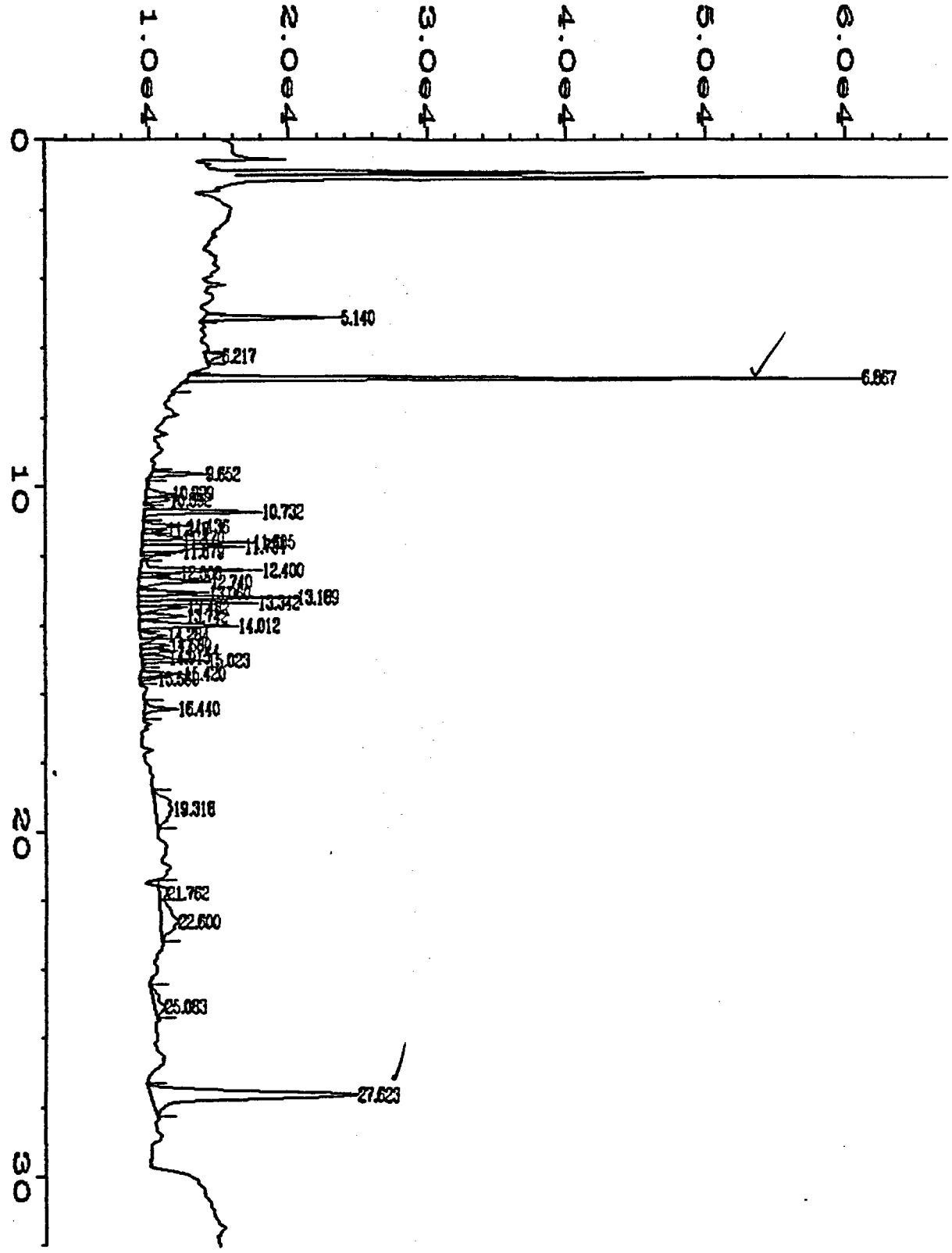
Data File Name : C:\HPCHEM\3\DATA\3041496\010F0801.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-28-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 05:21 PM
Report Created on: 15 Apr 96 04:28 PM
Last Recalib on : 15 Apr 96 04:28 PM
Multiplier : 1
Sample Info : AR1248 1F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

17 4/15/96

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 8
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR48-3F.MTH
Sample Amount : 0
ISTD Amount :

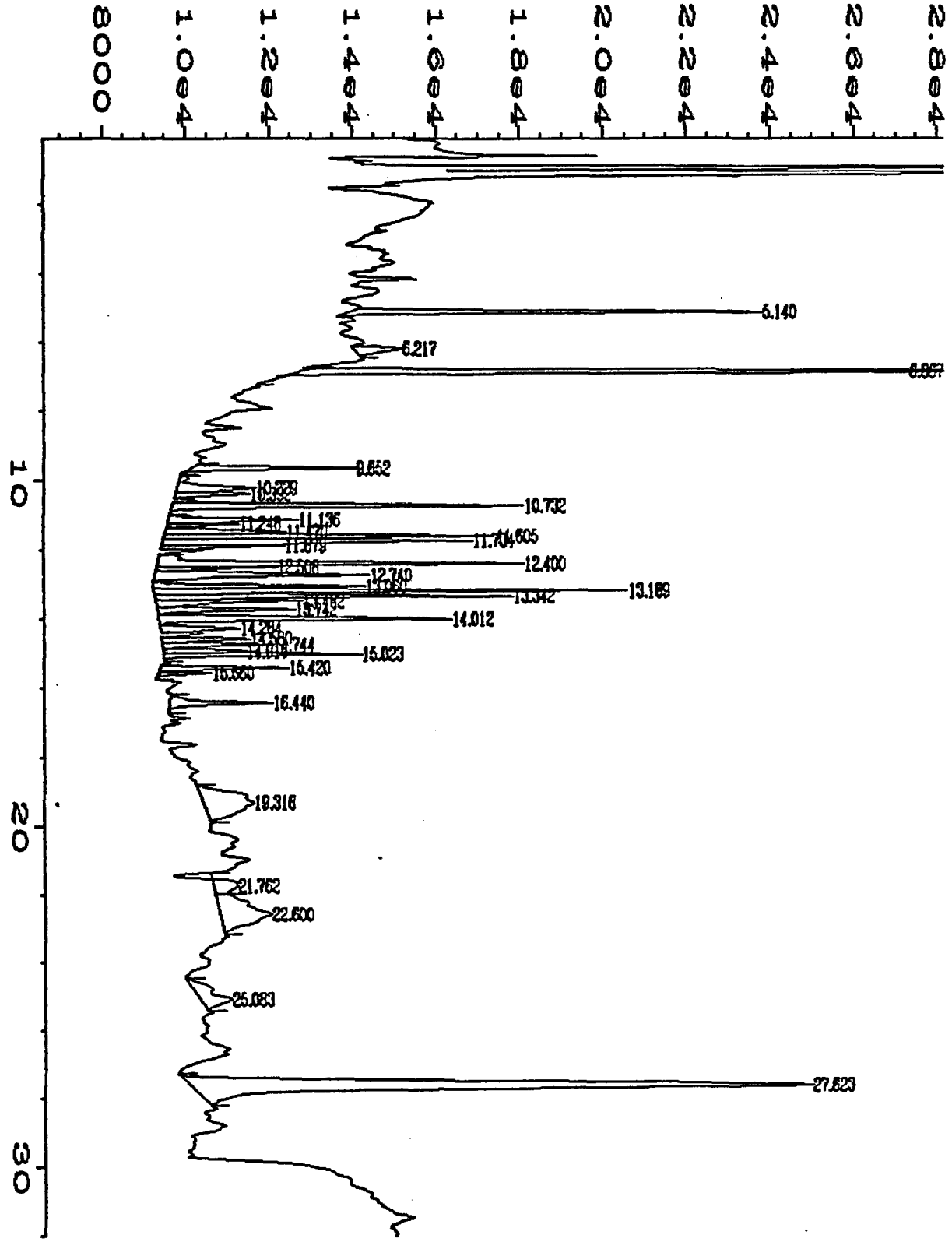
Sig. 1 in C:\HPCHEM\3\DATA\3041496\010F0801.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	218067	BB	0.070	1	0.0400	TCX
11.605	43843	VV	0.083	1	0.200	AROCLOR-1248
12.400	51928	VV	0.088	1	0.200	AROCLOR-1248-2
13.189	57417	VV	0.078	1	0.200	AROCLOR-1248-3
13.342	43790	VV	0.078	1	0.200	AROCLOR-1248-4
14.012	45453	VV	0.094	1	0.200	AROCLOR-1248-5
27.623	233325	BV	0.244	1	0.0400	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\010F0801.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 10
Sample Name	: EPA1-28-A1F 17 4/15/96	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 8
Acquired on	: 14 Apr 96 ~~05~~ 17:21 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:28 PM	Analysis Method	: AR48-3F.MTH
Last Recalib on	: 15 Apr 96 04:28 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1248 1F , HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

000765



Data File Name	: C:\HPCHEM\3\DATA\3041496\010F0801.D		
Operator	: DLP AR1248IF	Page Number	: 1
Instrument	: HP3F	Vial Number	: 10
Sample Name	: EPA1-28-A1F RTX-35 0.53mm	Injection Number	: 1
Run Time Bar Code:	17 21	Sequence Line	: 8
Acquired on	: 14 Apr 96 05:21 PM 2µl	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 09:20 AM 30m	Analysis Method	: AR48-3F.MTH
Last Recalib on	: 15 APR 96 04:28 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

000766

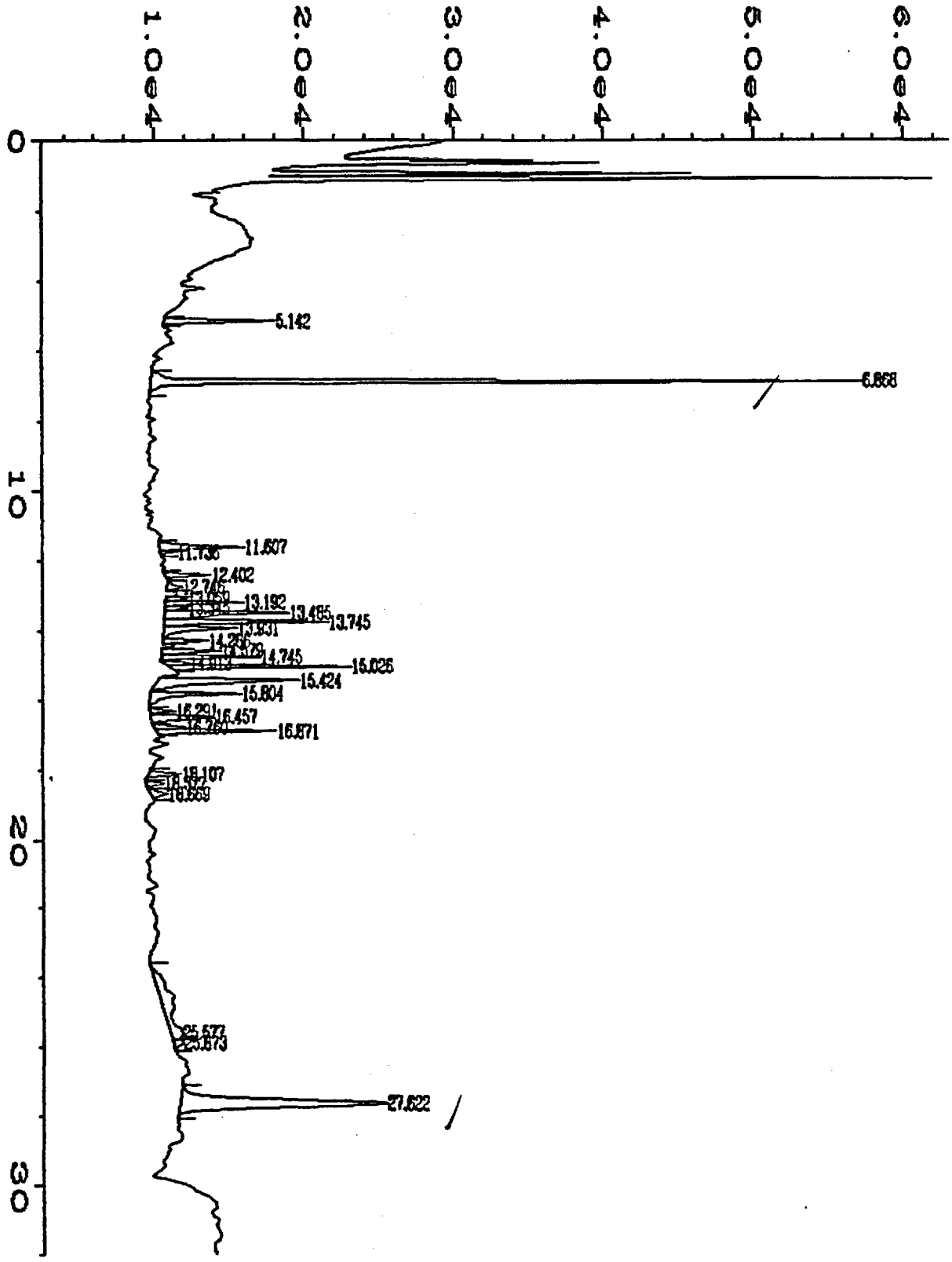
Data File Name : C:\HPCHEM\3\DATA\3041496\011F0901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-30-AIF
Run Time Bar Code:
Acquired on : 14 Apr 96 05:57 PM
Report Created on: 15 Apr 96 04:29 PM
Last Recalib on : 15 Apr 96 04:29 PM
Multiplier : 1
Sample Info : AR1254 IF, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

17 4/15/96

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 9
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR54-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\011F0901.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	232708	BB	0.075	1	0.0400	TCX
13.745	65780	VV	0.090	1	0.200	AROCLOR-1254
15.026	59643	VB	0.077	1	0.200	AROCLOR-1254-2
15.424	78449	PV	0.114	1	0.200	AROCLOR-1254-3
15.804	38904	PB	0.094	1	0.200	AROCLOR-1254-4
16.871	40864	VV	0.080	1	0.200	AROCLOR-1254-5
27.622	214335	BV	0.241	1	0.0400	DCB

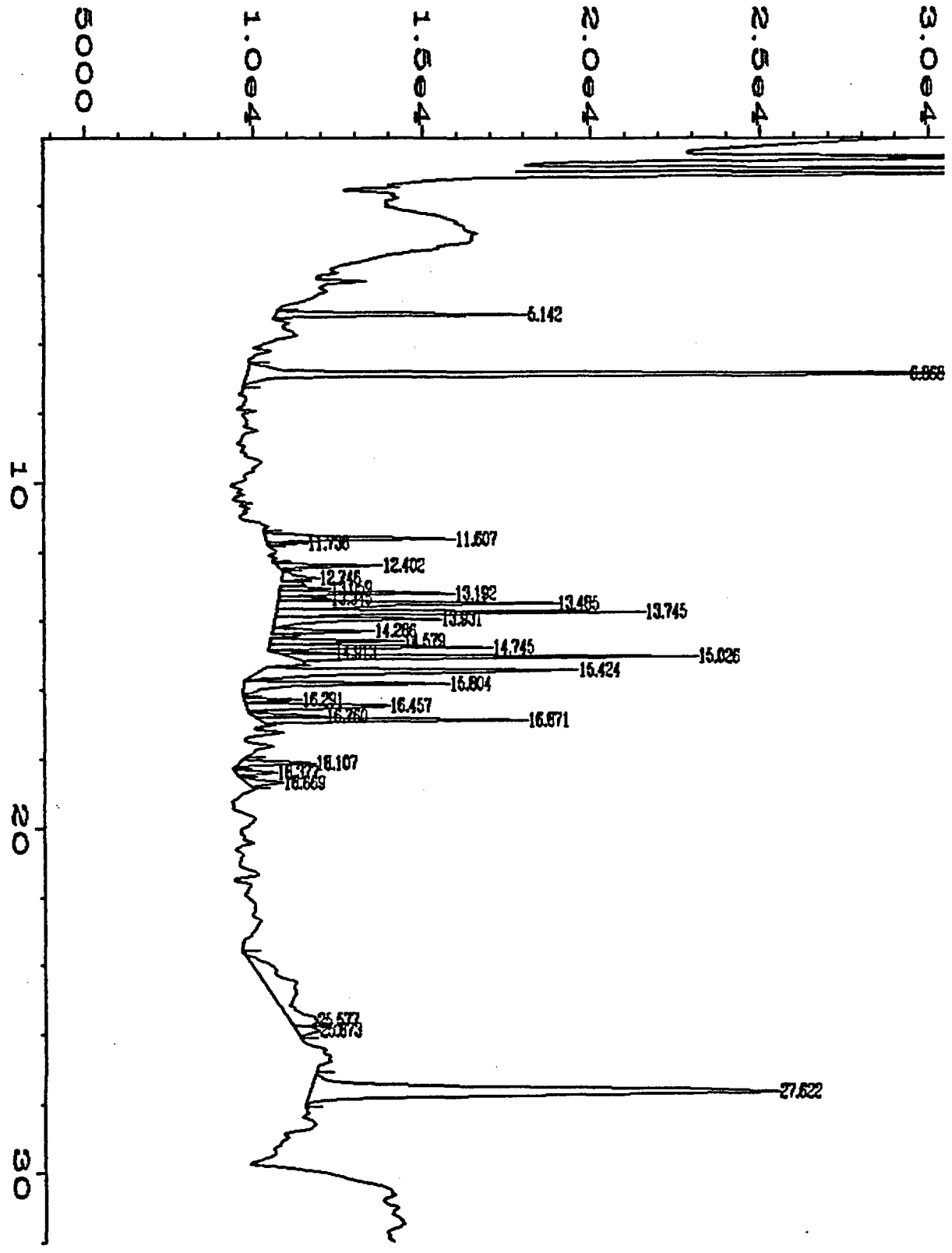


Data File Name : C:\HPCHEM\3\DATA\3041496\011F0901.D
Operator : DLP
Instrument : HP3 F
Sample Name : EPA1-30-A 1F
Run Time Bar Code:
Acquired on : 14 Apr 96 05:57 PM
Report Created on: 15 Apr 96 04:29 PM
Last Recalib on : 15 Apr 96 04:29 PM
Multiplier : 1
Sample Info : AR1254 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 9
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR54-3F.MTH
Sample Amount : 0
ISTD Amount :

JBK 4/15/96

000768



Data File Name	: C:\HPCHEM\3\DATA\3041496\011F0901.D		
Operator	: DLP AR1254 1F	Page Number	: 1
Instrument	: HP3F	Vial Number	: 11
Sample Name	: EPA1-30-A1F RTX-35	Injection Number	: 1
Run Time Bar Code:	17 57 0.53mm	Sequence Line	: 9
Acquired on	: 14 Apr 96 05:57 PM 2µl	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 09:21 AM	Analysis Method	: AR54-3F.MTH
Last Recalib on	: 15 APR 96 04:29 PM 30M	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

000769

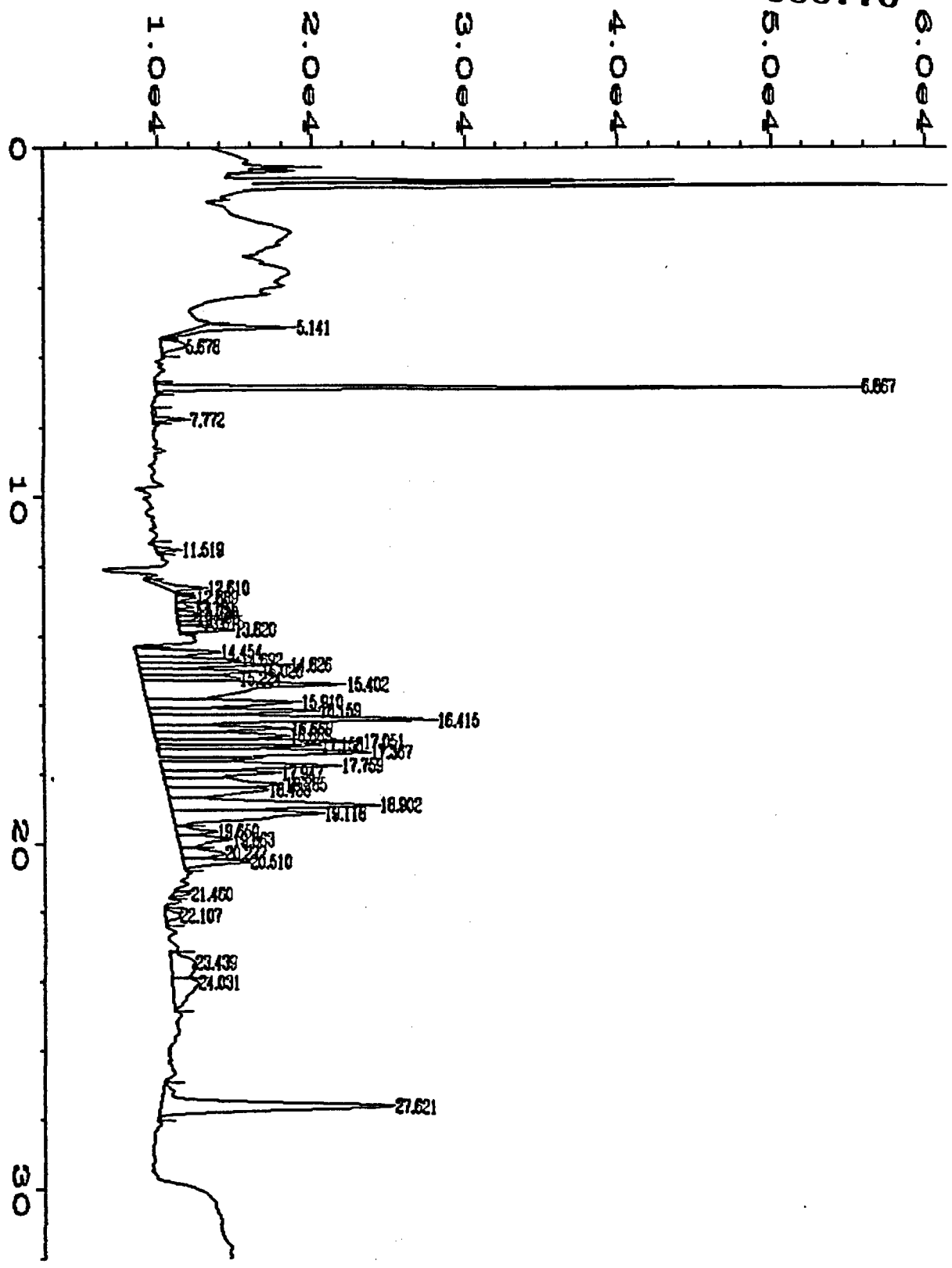
Data File Name : C:\HPCHEM\3\DATA\3041496\012F1001.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-32-AIF
Run Time Bar Code:
Acquired on : 14 Apr 96 06:34 PM
Report Created on: 15 Apr 96 04:29 PM
Last Recalib on : 15 Apr 96 04:29 PM
Multiplier : 1
Sample Info : TOXAPHIF, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 10
Instrument Method: EPAMTH_F.MTH
Analysis Method : TOX3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\012F1001.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	204923	BV	0.070	1	0.0400	TCX
16.415	191006	VV	0.145	1	1.000	TOXAPHENE
17.051	96321	VV	0.104	1	1.000	TOXAPHENE-2
17.367	148053	VV	0.165	1	1.000	TOXAPHENE-3
18.902	174907	VV	0.175	1	1.000	TOXAPHENE-4
19.118	145614	VV	0.200	1	1.000	TOXAPHENE-5
27.621	247567	VV	0.249	1	0.0400	DCB

000770



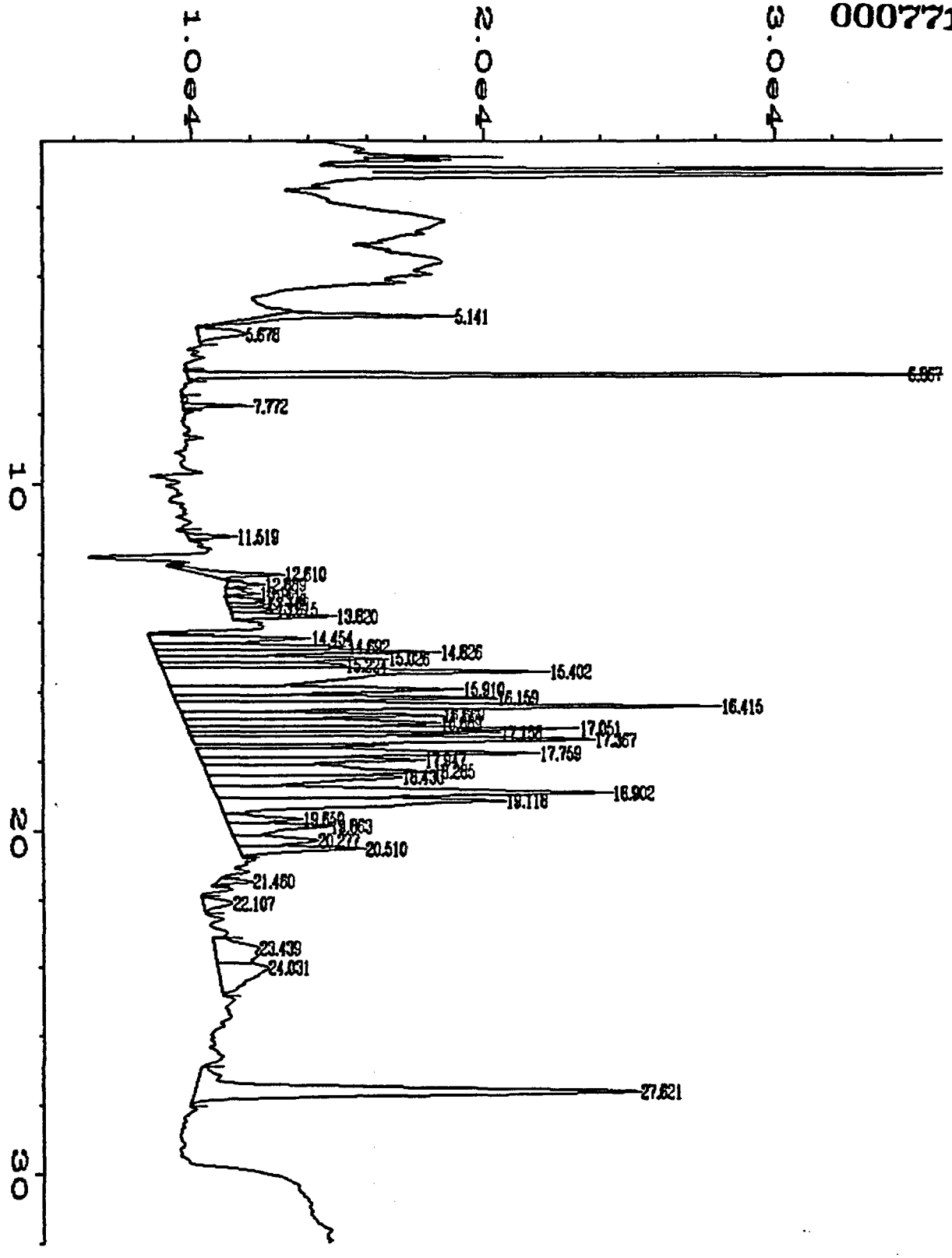
Data File Name : C:\HPCHEM\3\DATA\3041496\012F1001.D
Operator : DLP
Instrument : HP3 F
Sample Name : EPA1-32-A 1F
Run Time Bar Code:
Acquired on : 14 Apr 96 06:34 PM
Report Created on: 15 Apr 96 04:30 PM
Last Recalib on : 15 Apr 96 04:29 PM
Multiplier : 1
Sample Info : TOXAPH 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 10
Instrument Method: EPAMTH_F.MTH
Analysis Method : TOX3F.MTH
Sample Amount : 0
ISTD Amount :

18

4/15/96

000771



Data File Name	: C:\HPCHEM\3\DATA\3041496\012F1001.D		
Operator	: DLP TOX APH 1F	Page Number	: 1
Instrument	: HP3F	Vial Number	: 12
Sample Name	: EPA1-32-AIF RTX-35	Injection Number	: 1
Run Time Bar Code:	18 34 0.53mm	Sequence Line	: 10
Acquired on	: 14 Apr 96 06:34 PM 2 µl	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 09:22 AM 30m	Analysis Method	: TOX3F.MTH
Last Recalib on	: 15 APR 96 04:29 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000772

njection C: <PESTEPA> 3 JUNKCAL,6,1

Acquired on 23-Apr-96 at 17:41:07
Modified on 25-Apr-80 at 15:31:48
Reported on 25-Apr-96 at 15:38:58

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 15:37:48
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-20-AFI
Sample ID.....: AR1660 FI
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 9

etention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.498	410783	0.0400	TCX
8	5.680	50674	0.2000	AROCLOR-1016
10	6.453	119482	0.2000	AROCLOR-1016-2
15	7.391	205903	0.2000	AROCLOR-1016-3
16	7.680	80374	0.2000	AROCLOR-1016-4
17	7.929	65562	0.2000	AROCLOR-1016-5
28	13.551	144366	0.2000	AROCLOR-1260
31	14.956	291854	0.2000	AROCLOR-1260-2
33	17.444	180700	0.2000	AROCLOR-1260-3
38	23.467	206063	0.2000	AROCLOR-1260-4
40	25.556	126541	0.2000	AROCLOR-1260-5
44	29.684	323214	0.0400	DCB
otal		2205516	2.0800	
Residual		2445646	4.9993	

VG Data Systems - Minichrom v1.66

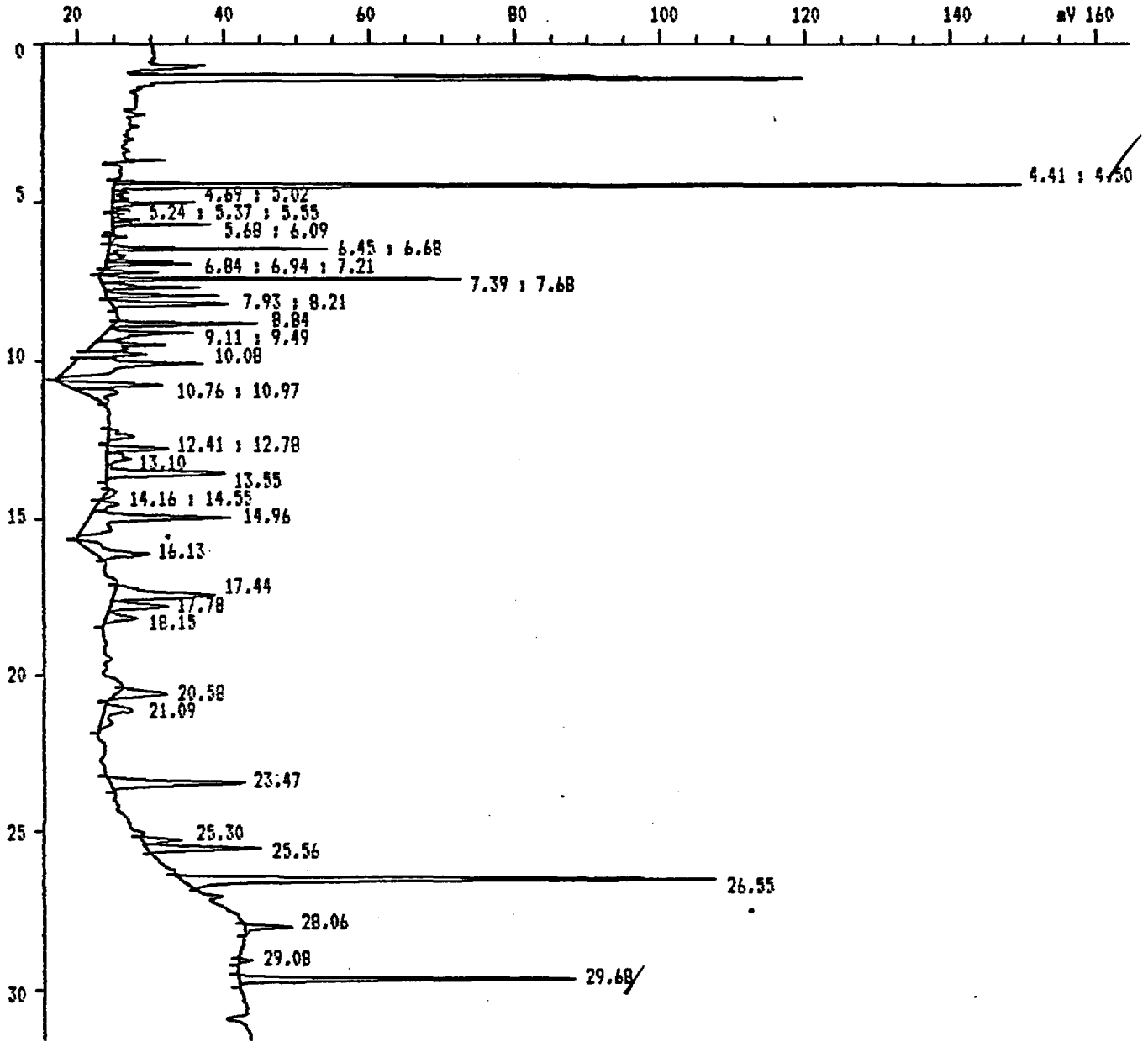
000773

LONG PLOT

Injection C: <PESTEPA> 3 JUNKCAL,6,1

Sample name.....: EPA1-20-A FI
Sample ID.....: AR1660 FI
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 17:41:07
Reported on 25-Apr-96 at 15:40:08



VG Data Systems - Minichrom v1.66

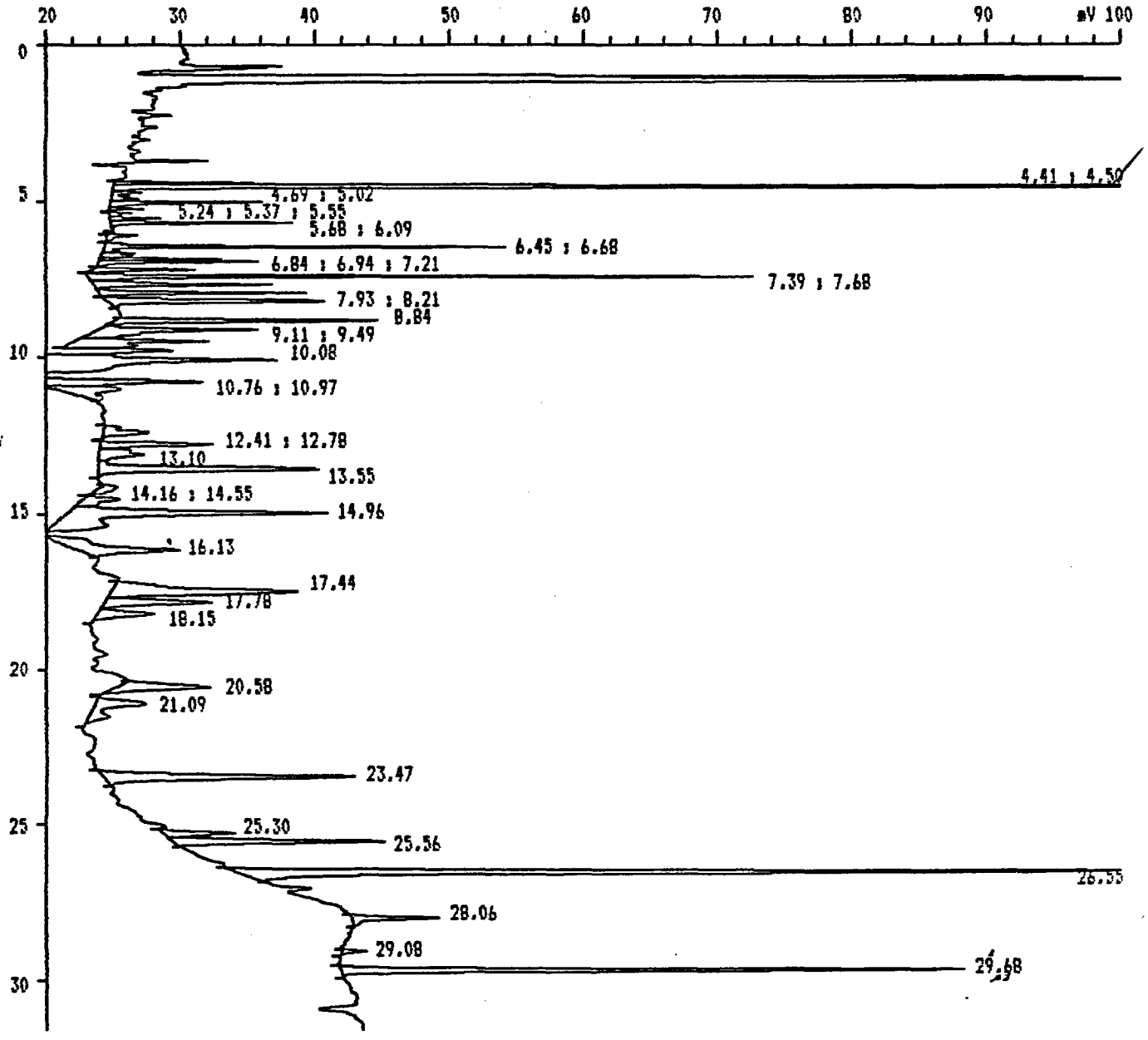
LONG PLOT

000774

Injection C: <PESTEPA> 3 JUNKCAL,6,1

Sample name.....: EPA1-20-AF1
Sample ID.....: AR1660 F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 17:41:07
Reported on 25-Apr-96 at 16:21:34



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000775

Injection C: <PESTEPA> 3 JUNKCAL,7,1

Acquired on 23-Apr-96 at 18:19:23
Modified on 25-Apr-80 at 15:32:38
Reported on 25-Apr-96 at 15:42:07

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 15:37:48
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-22-AF1
Sample ID.....: AR1221F1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 10

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.511	383441	0.0400	TCX
5	5.249	54177	0.4000	AROCLOR-1221
6	5.564	33048	0.4000	AROCLOR-1221-2
7	5.689	113798	0.4000	AROCLOR-1221-3
14	29.689	276309	0.0400	DCB
Total		860774	1.2800	
Residual		156876	0.3676	

VG Data Systems - Minichrom v1.66

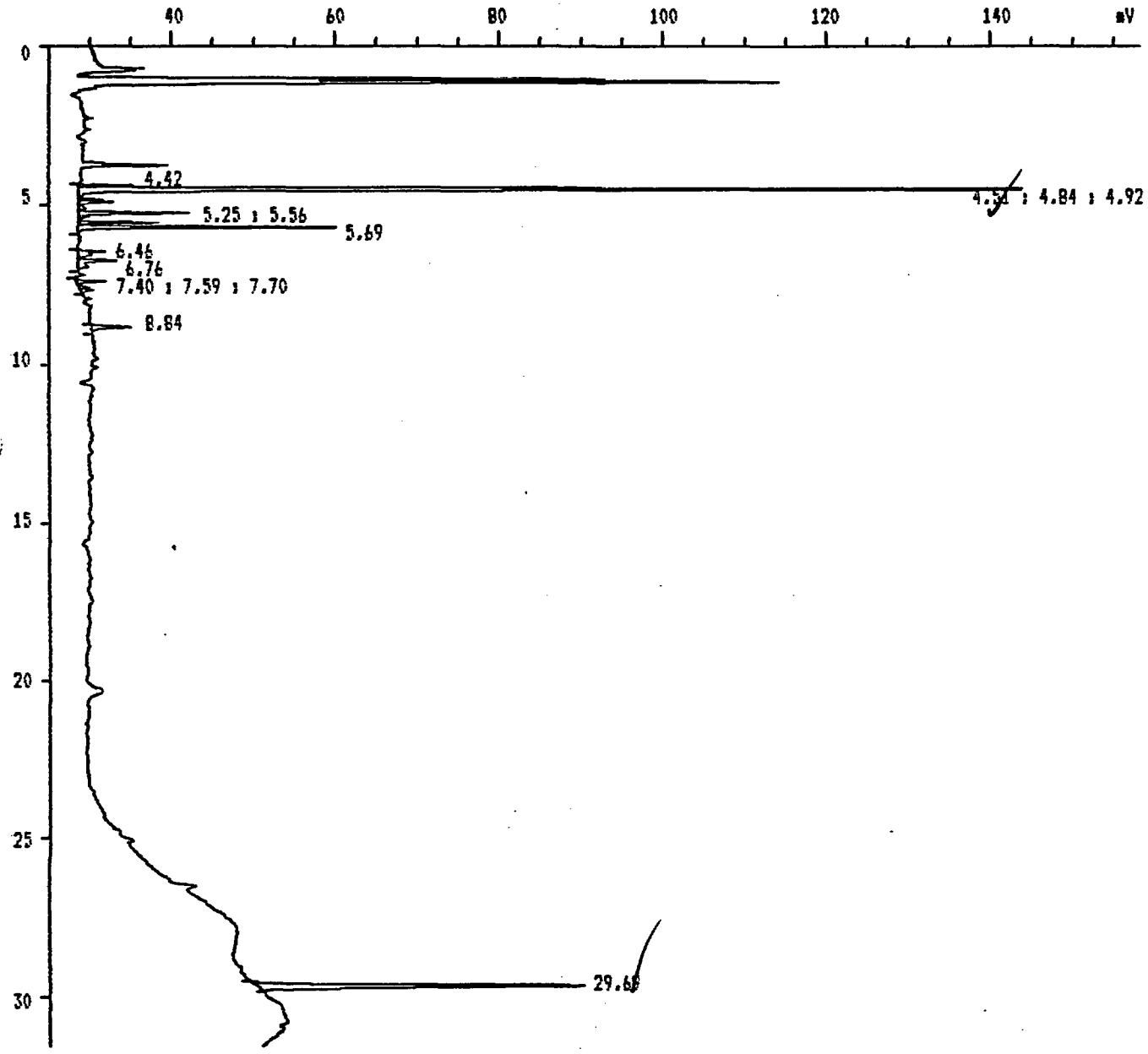
LONG PLOT

000776

njection C: <PESTEPA> 3 JUNKCAL,7,1

Sample name.....: EPA1-22-AF1
Sample ID.....: AR1221F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 18:19:23
Reported on 25-Apr-96 at 15:43:07



VG Data Systems - Minichrom v1.66

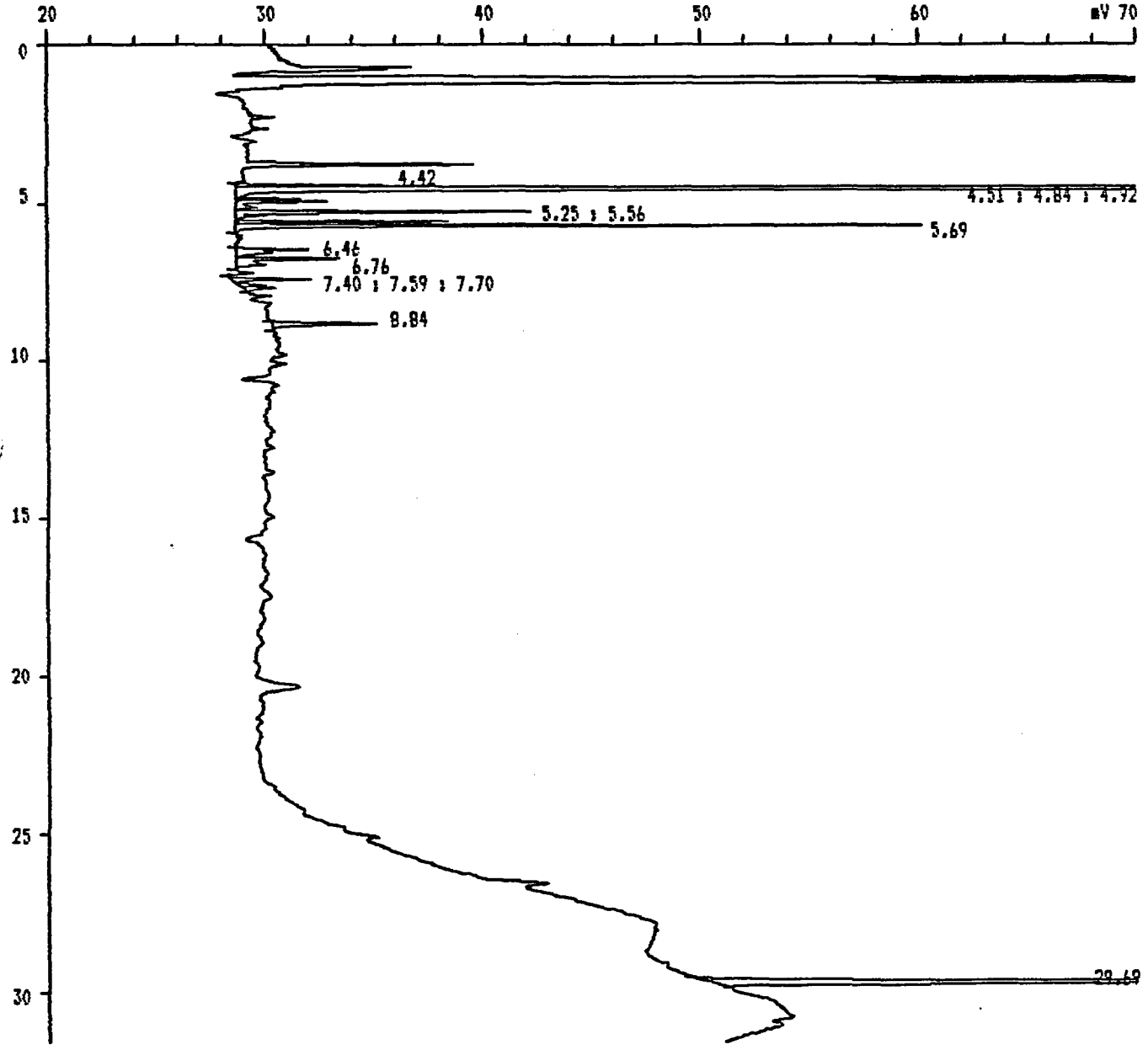
LONG PLOT

000777

Injection C: <PESTEPA> 3 JUNKCAL,7,1

Sample name.....: EPA1-22-A F1
Sample ID.....: AR1221F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 18:19:23
Reported on 25-Apr-96 at 16:04:19



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000778

Injection C: <PESTEPA> 3 JUNKCAL,8,1

Acquired on 23-Apr-96 at 18:57:38
Modified on 25-Apr-80 at 15:33:26
Reported on 25-Apr-96 at 15:44:50

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 15:37:48
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-24-AFI
Sample ID.....: AR1232FI
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 11

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.493	387647	0.0400	TCX
7	5.676	56013	0.2000	AROCLOR-1232
8	6.449	52630	0.2000	AROCLOR-1232-2
13	7.387	76271	0.2000	AROCLOR-1232-3
16	8.204	49733	0.2000	AROCLOR-1232-4
17	8.827	45283	0.2000	AROCLOR-1232-5
24	29.667	281996	0.0400	DCB
Total		949572	1.0800	
Residual		333664	0.9589	

VG Data Systems - Minichrom v1.66

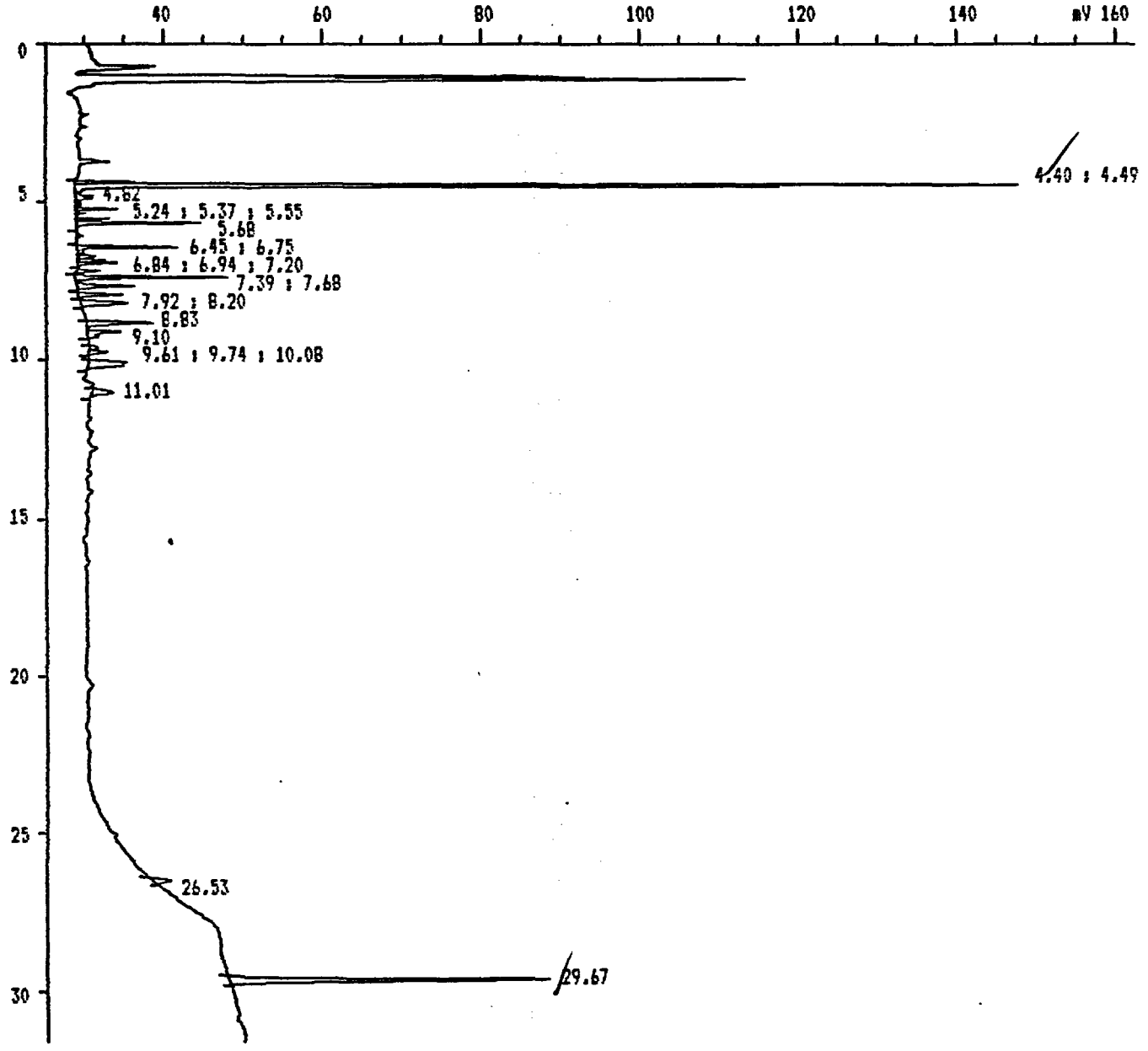
LONG PLOT

Injection C: <PESTEPA> 3 JUNKCAL,8,1

000779

Sample name.....: EPA1-24-AF1
Sample ID.....: AR1232 F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 18:57:38
Reported on 25-Apr-96 at 15:45:53



VG Data Systems - Minichrom v1.66

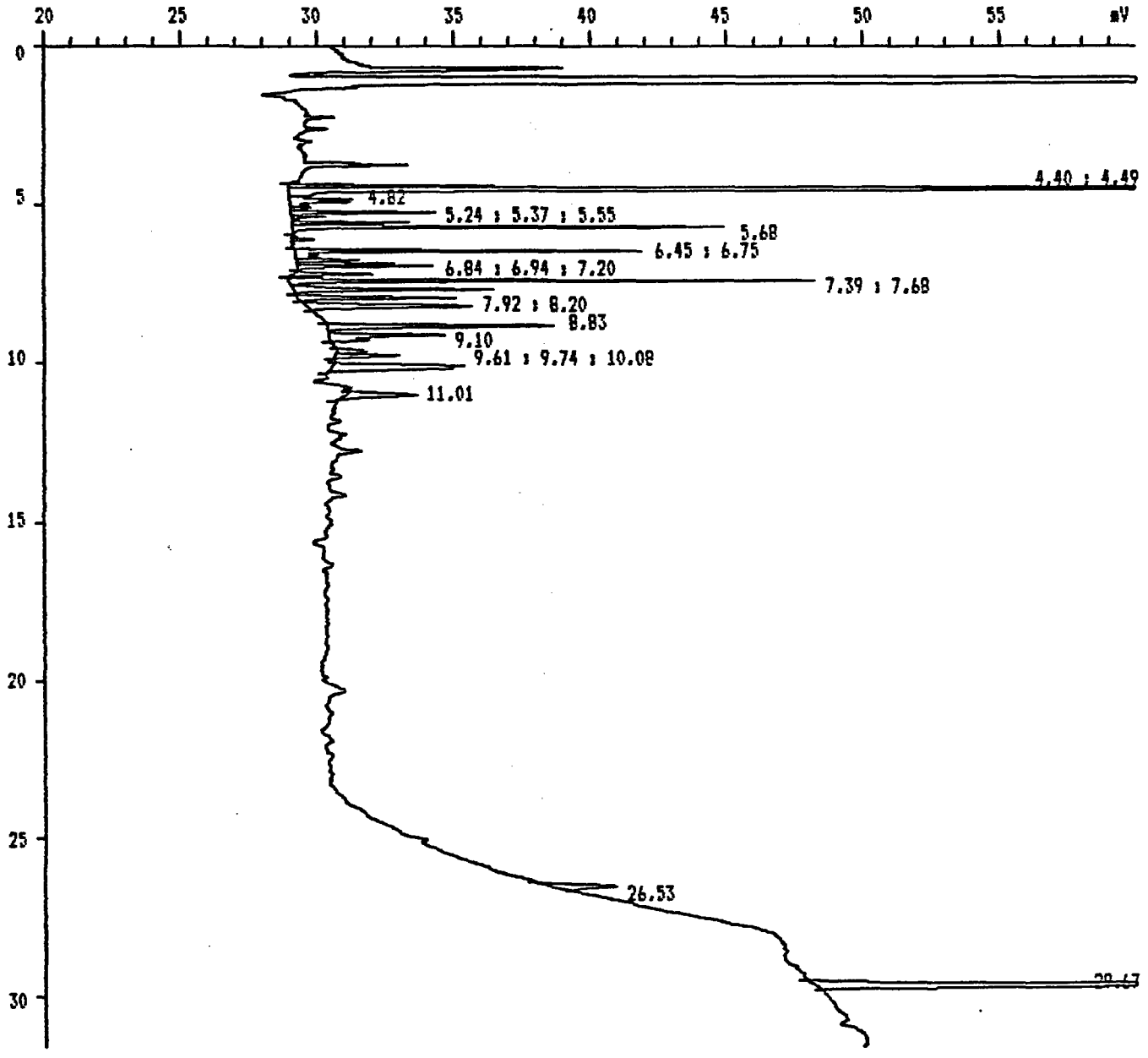
LONG PLOT

000780

Injection C: <PESTEPA> 3 JUNKCAL,8,1

Sample name.....: EPA1-24-A FI
Sample ID.....: AR1232FI
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 18:57:38
Reported on 25-Apr-96 at 16:11:13



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000781

Injection C: <PESTEPA> 3 JUNKCAL,9,1

Acquired on 23-Apr-96 at 19:35:53
Modified on 25-Apr-80 at 15:34:18
Reported on 25-Apr-96 at 15:47:36

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 15:37:48
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-26-AF
Sample ID.....: AR1242 F1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 12

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.502	396612	0.0400	TCX
10	6.453	110706	0.2000	AROCLOR-1242
14	7.396	163719	0.2000	AROCLOR-1242-2
19	8.836	94775	0.2000	AROCLOR-1242-4
21	9.493	295133	0.2000	AROCLOR-1242-3
23	10.089	362163	0.2000	AROCLOR-1242-5
35	29.676	319390	0.0400	DCB
Total		1742497	1.0800	
Residual		6804111	4.0839	

VG Data Systems - Minichrom v1.66

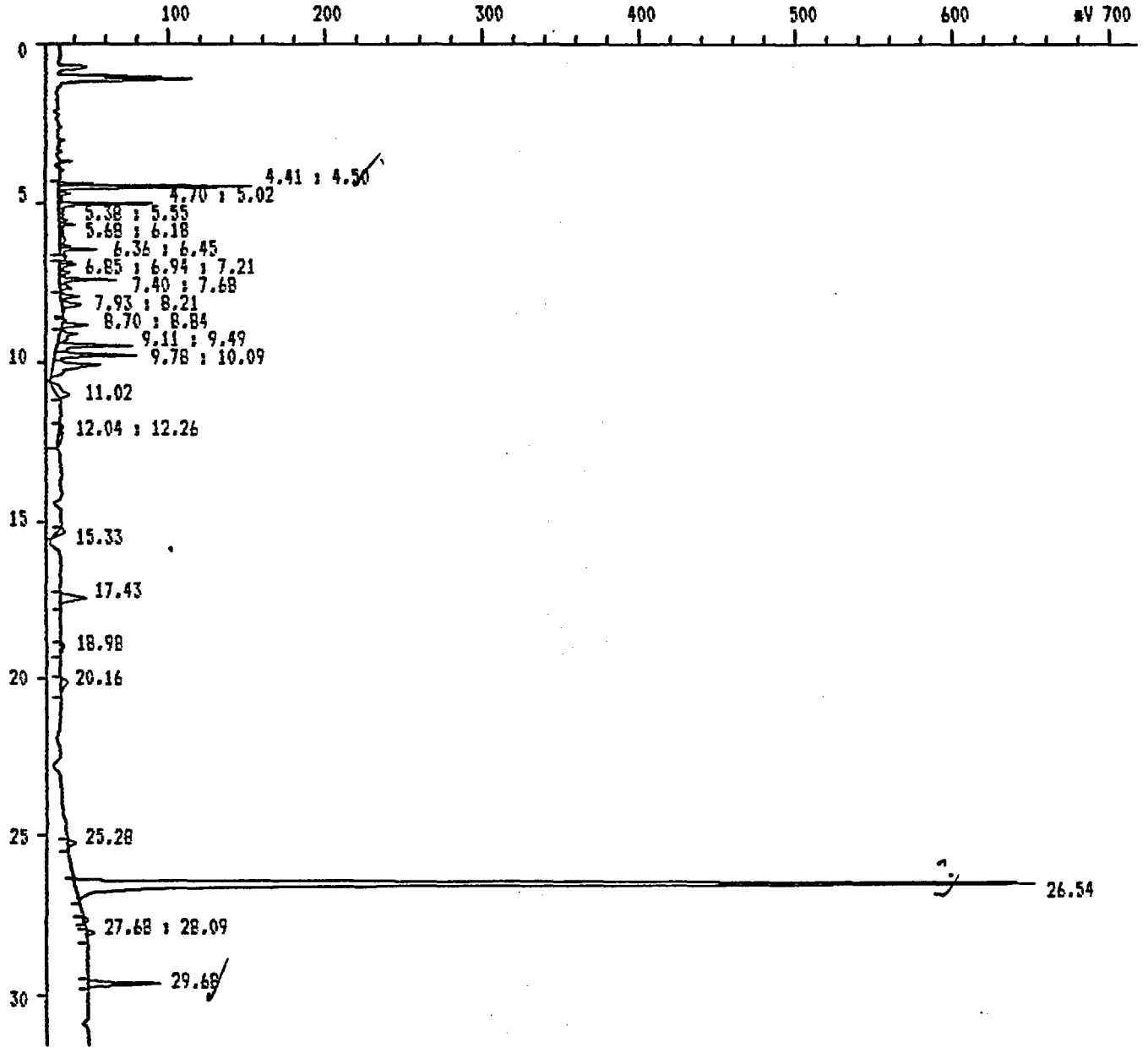
LONG PLOT

000782

njection C: <PESTEPA> 3 JUNKCAL,9,1

Sample name.....: EPA1-26-AFI
Sample ID.....: AR1242FI
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 19:35:53
Reported on 25-Apr-96 at 15:48:39



VG Data Systems - Minichrom v1.66

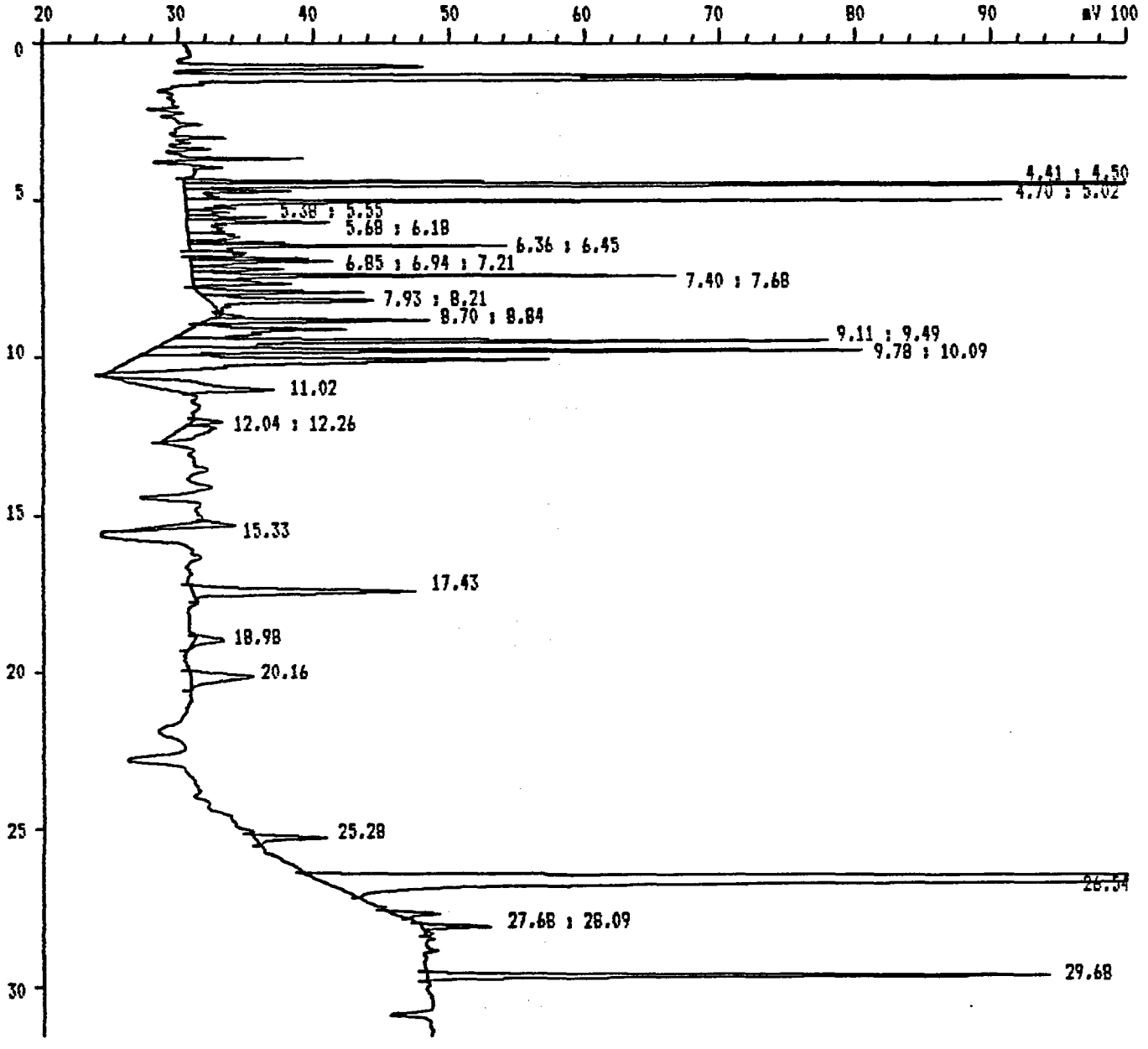
LONG PLOT

RD
000783 050196

Injection C: <PESTEPA> 3 JUNKCAL,9,1

Sample name.....: EPA1-26-A FI
Sample ID.....: AR1242FI
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 19:35:53
Reported on 25-Apr-96 at 16:24:41



VG Data Systems - Minichrom v1.66

INJECTION REPORT

Injection C: <PESTEPA> 3 JUNKCAL,10,1

000784

Acquired on 23-Apr-96 at 20:14:06
Modified on 25-Apr-80 at 15:35:10
Reported on 25-Apr-96 at 15:50:14

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 15:37:48
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-28-AF1
Sample ID.....: AR1248F1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 13

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.489	422782	0.0400	TCX
16	8.822	130579	0.2000	AROCLOR-1248
17	9.098	142827	0.2000	AROCLOR-1248-2
18	9.480	174812	0.2000	AROCLOR-1248-3
19	9.760	212979	0.2000	AROCLOR-1248-4
20	10.076	398001	0.2000	AROCLOR-1248-5
34	29.662	334625	0.0400	DCB
Total		1816604	1.0800	
Residual		3277078	1.2733	

VG Data Systems - Minichrom v1.66

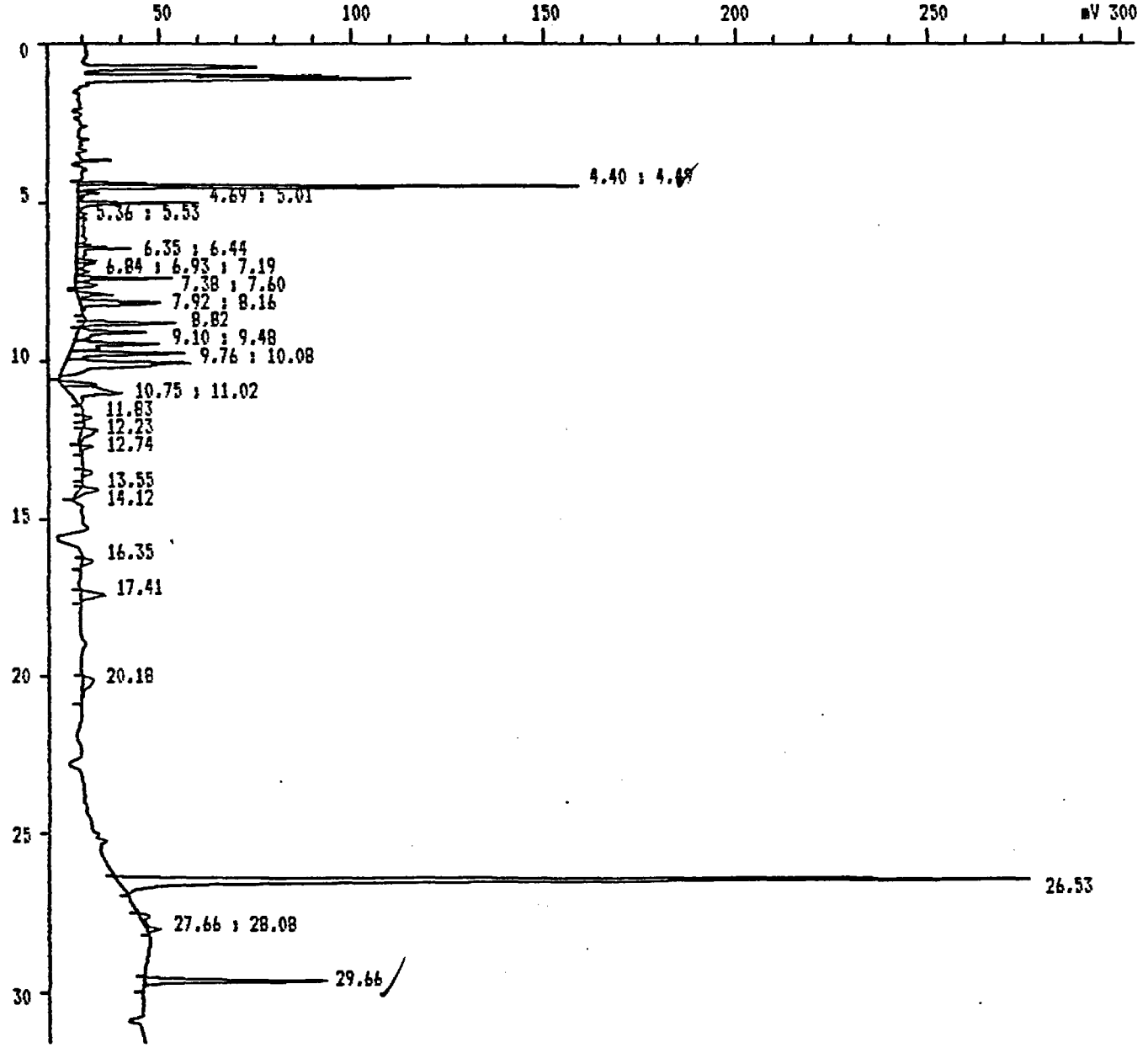
LONG PLOT

000785

Injection C: <PESTEPA> 3 JUNKCAL,10,1

Sample name.....: EPA1-28-AF1
Sample ID.....: AR1248F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 20:14:06
Reported on 25-Apr-96 at 15:51:17



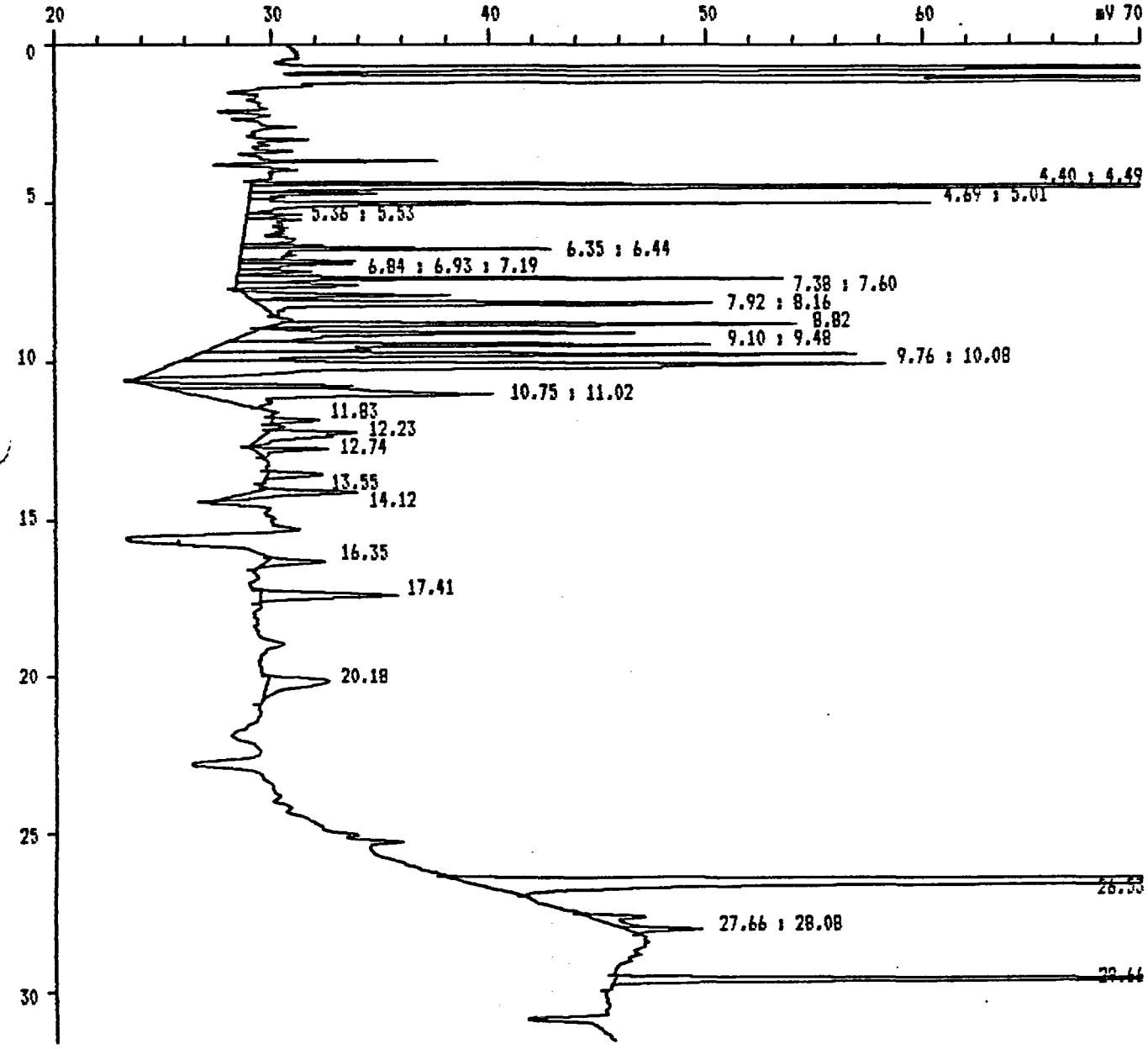
VG Data Systems - Minichrom v1.66

LONG PLOT 000786

Injection C: <PESTEPA> 3 JUNKCAL,10,1

Sample name.....: EPA1-28-A FI
Sample ID.....: AR1248 FI
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 20:14:06
Reported on 25-Apr-96 at 16:06:56



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000787

Injection C: <PESTEPA> 3 JUNKCAL,11,1

Acquired on 23-Apr-96 at 20:52:21
Modified on 25-Apr-80 at 15:36:26
Reported on 25-Apr-96 at 15:53:00

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 15:37:48
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-30-A F1
Sample ID.....: AR1254 F1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 14

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.498	374482	0.0400	TCX
9	10.067	137405	0.2000	AROCLOR-1254
11	10.747	150891	0.2000	AROCLOR-1254-2
15	12.742	165993	0.2000	AROCLOR-1254-3
17	14.120	95586 ✓	0.2000	AROCLOR-1254-4
19	14.929	61528 ✓	0.2000	AROCLOR-1254-5
24	29.671	289438	0.0400	DCB
Total		1275323	1.0800	
Residual		800848	1.5095	

VG Data Systems - Minichrom v1.66

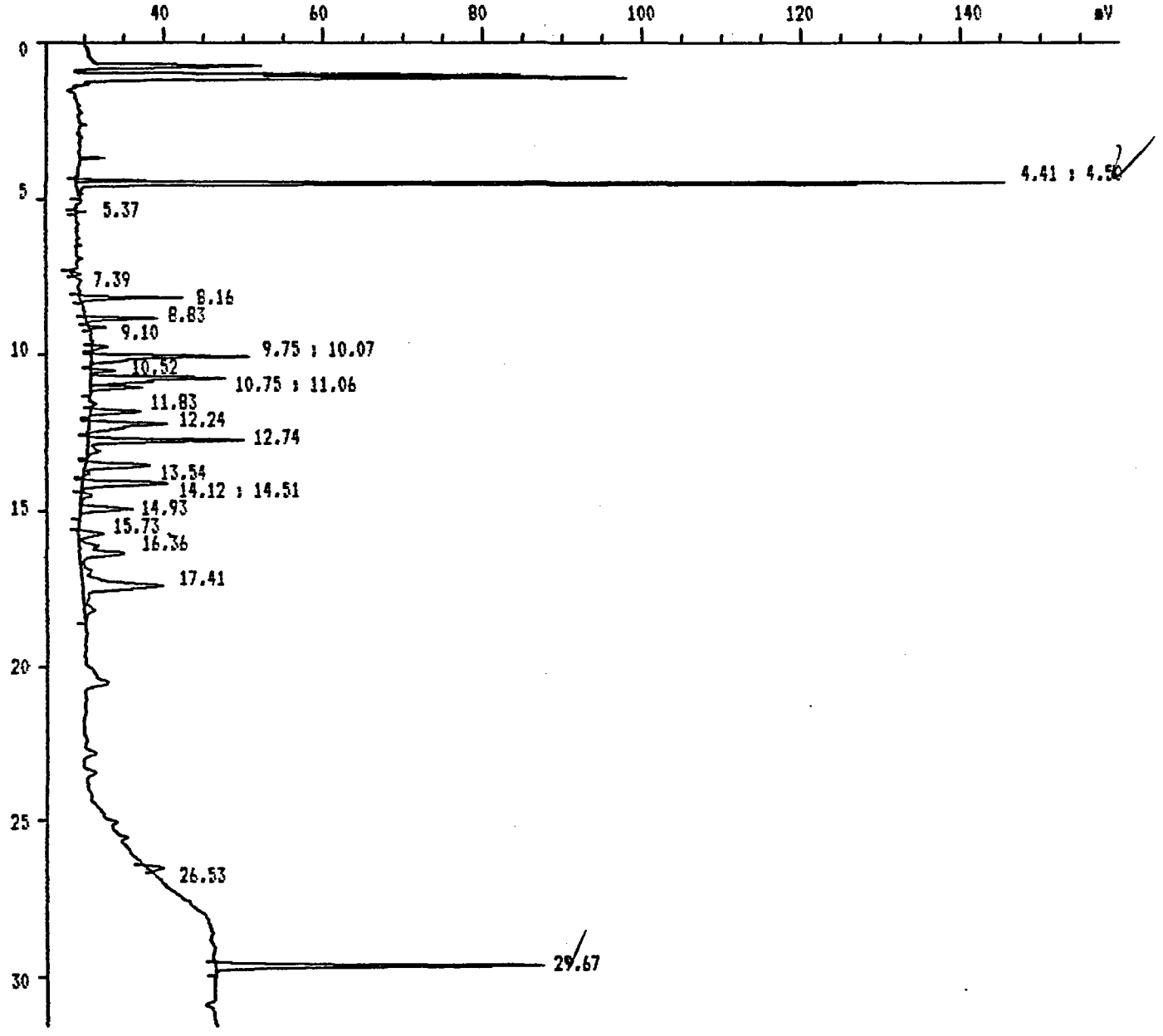
LONG PLOT

000788

Injection C: <PESTEPA> 3 JUNKCAL,11,1

Sample name.....: EPA1-30-AF1
Sample ID.....: AR1254 F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 20:52:21
Reported on 25-Apr-96 at 15:54:03



VG Data Systems - Minichrom v1.66

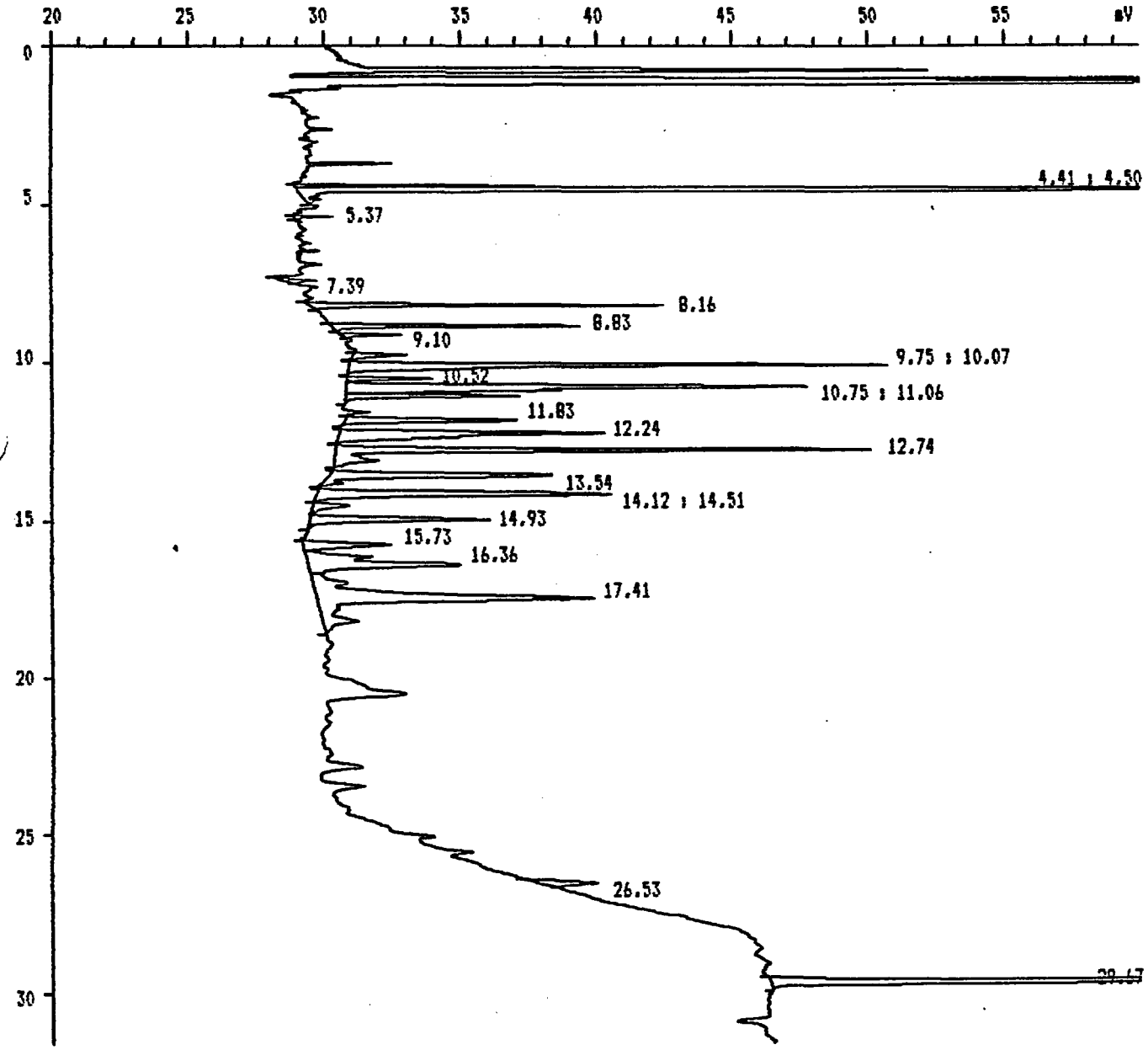
LONG PLOT

000789

njection C: <PESTEPA> 3 JUNKCAL,11,1

Sample name.....: EPA1-30-AF1
Sample ID.....: AR1254 F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 20:52:21
Reported on 25-Apr-96 at 16:14:06



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000790

Injection C: <PESTEPA> 3 JUNKCAL,12,1

Acquired on 23-Apr-96 at 21:30:35
Modified on 25-Apr-80 at 15:37:26
Reported on 25-Apr-96 at 15:55:47

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 15:37:48
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-32-A F1
Sample ID.....: TOXAPH F1
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 15

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.493	359633	0.0400	TCX
24	17.400	218256	1.0000	TOXAPHENE
25	17.862	121264	1.0000	TOXAPHENE-2
31	23.031	120652	1.0000	TOXAPHENE-3
32	23.702	157736	1.0000	TOXAPHENE-4
35	25.173	138704 ✓	1.0000	TOXAPHENE-5
47	29.667	288122	0.0400	DCB
Total		1404365	5.0800	
Residual		5149771	21.6176	

VG Data Systems - Minichrom v1.66

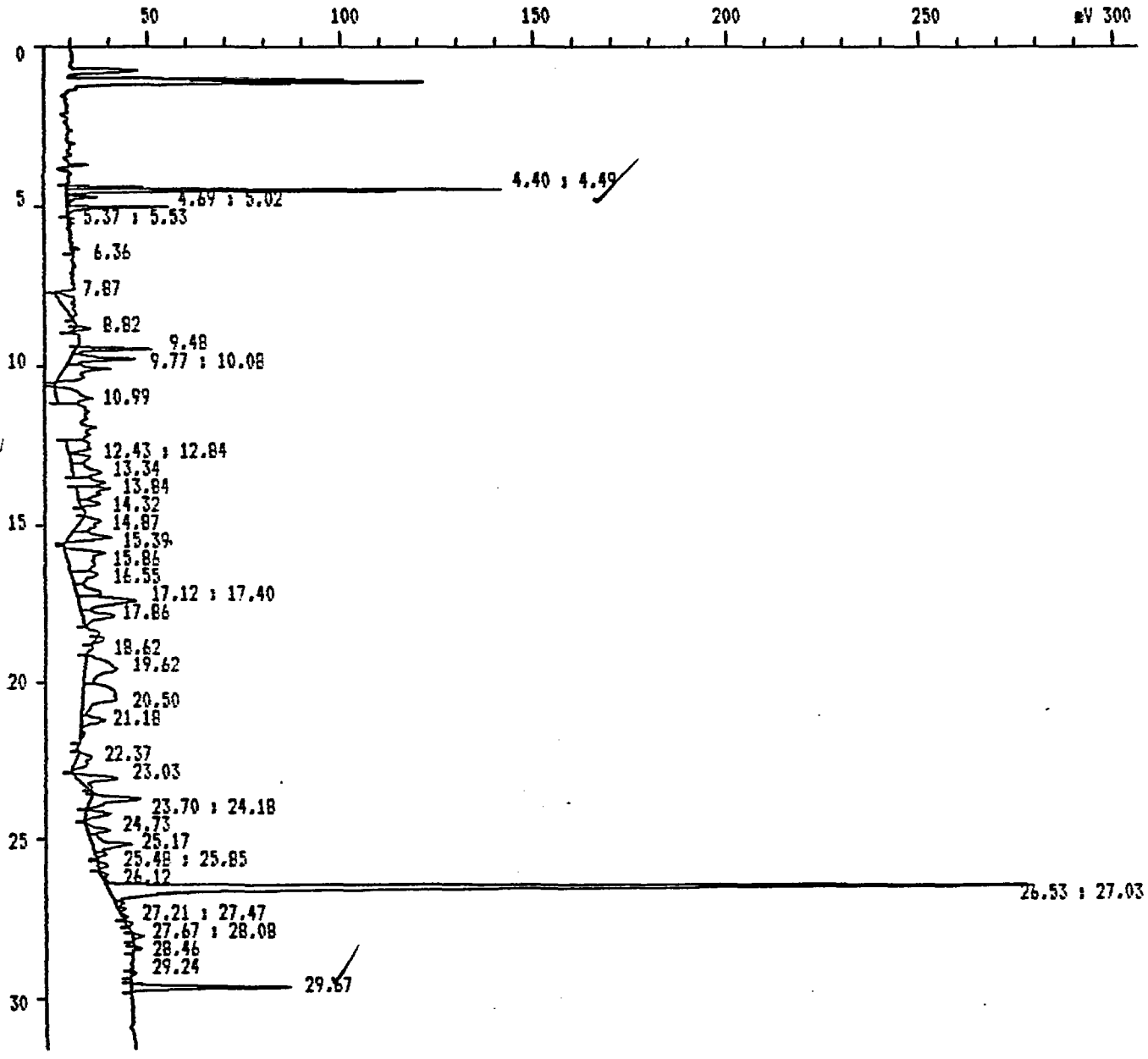
LONG PLOT

000791

njection C: <PESTEPA> 3 JUNKCAL,12,1

Sample name.....: EPA1-32-A F1
Sample ID.....: TOXAPH F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 21:30:35
Reported on 25-Apr-96 at 15:56:50



VG Data Systems - Minichrom v1.66

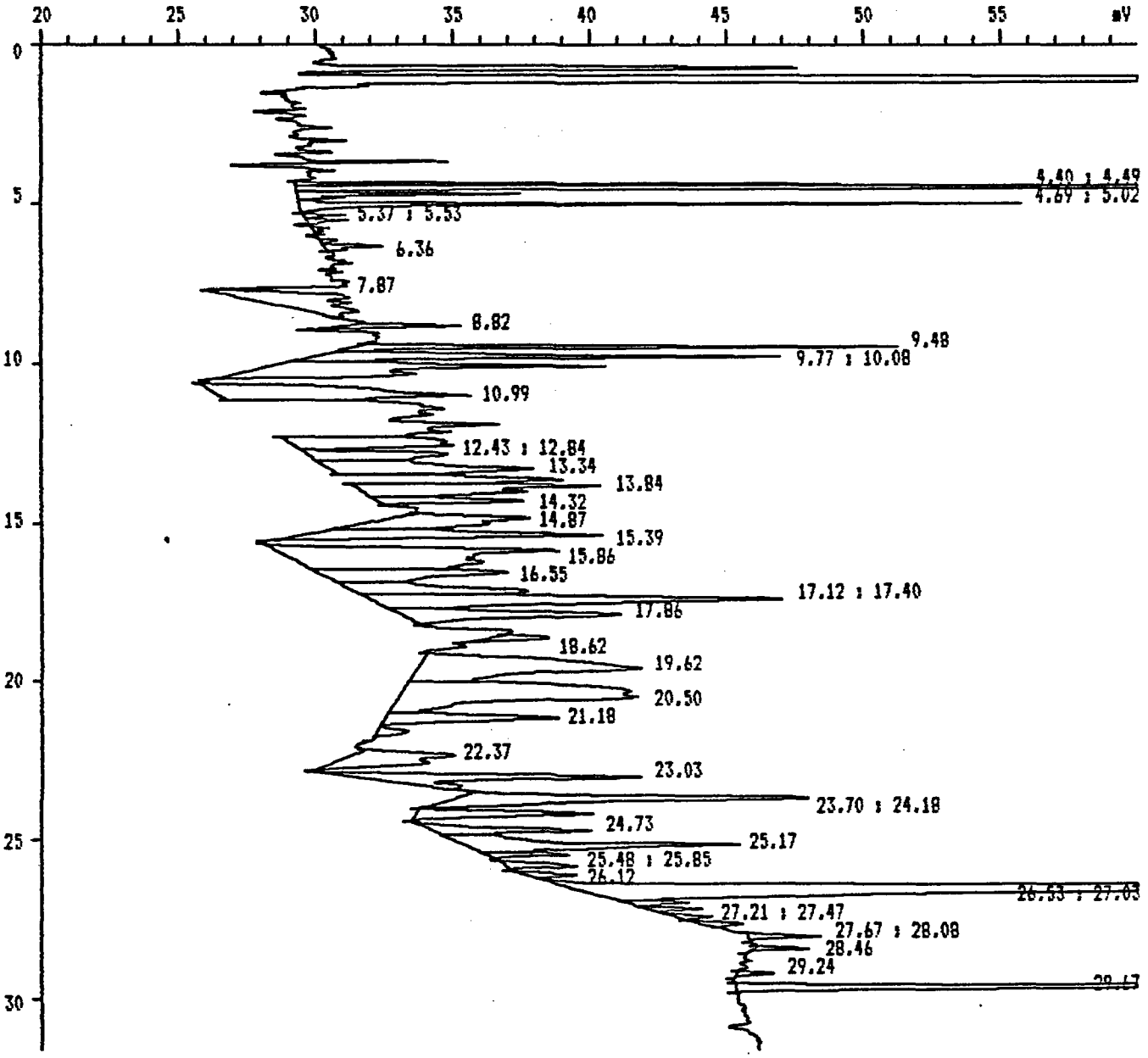
LONG PLOT

000792

Injection C: <PESTEPA> 3 JUNKCAL,12,1

Sample name.....: EPA1-32-A F1
Sample ID.....: TOXAPH F1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 23-Apr-96 at 21:30:35
Reported on 25-Apr-96 at 16:17:05



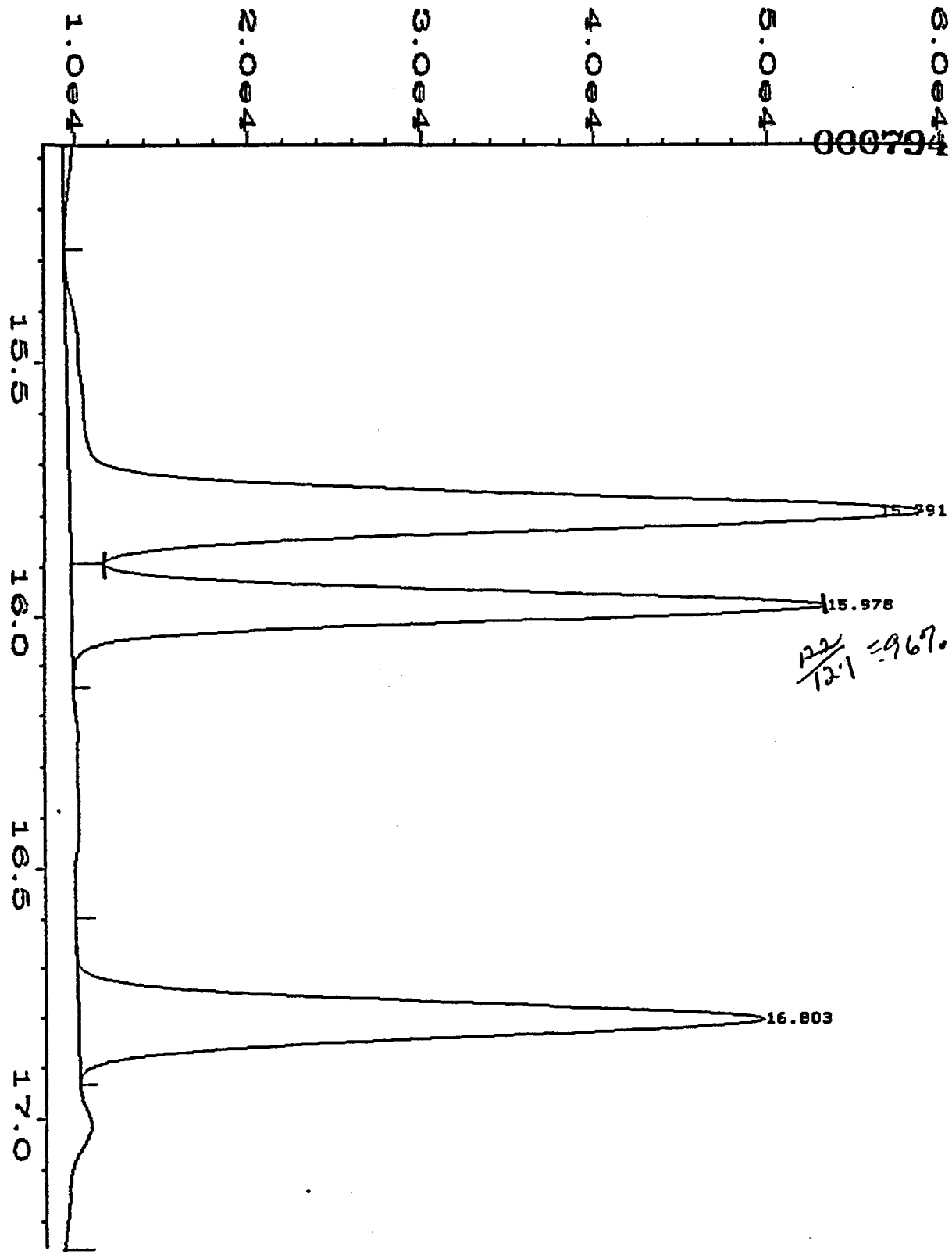
External Standard Report

000793

Data File Name	: C:\HPCHEM\3\DATA\3041496\036F1901.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 36
Sample Name	: EPA1-12-A2F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 19
Acquired on	: 15 Apr 96 09:08 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 03:25 PM	Analysis Method	: INDA3F.MTH
Last Recalib on	: 15 Apr 96 03:25 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: INDAM2F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

Sig. 1 in C:\HPCHEM\3\DATA\3041496\036F1901.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.857	206087	BV	0.070	1	0.0400	TCX
8.688	257925	PB	0.068	1	0.0400	alpha-BHC
9.750	247795	BB	0.071	1	0.0400	gamma-BHC
10.840	218882	BB	0.082	1	0.0400	HEPTACHLOR
14.141	165643	VV	0.080	1	0.0400	ENDOSULFAN I
14.907	317825	BV	0.079	1	0.0800	DIELDRIN
15.791	265868	PV	0.083	1	0.0800	ENDRIN
15.978	195217	VV	0.070	1	0.0800	4,4'-DDD
16.803	196279	BV	0.078	1	0.0800	4,4'-DDT
19.370	476780	VB	0.119	1	0.400	METHOXYCHLOR
27.580	387382	BV	0.243	1	0.0800	DCB

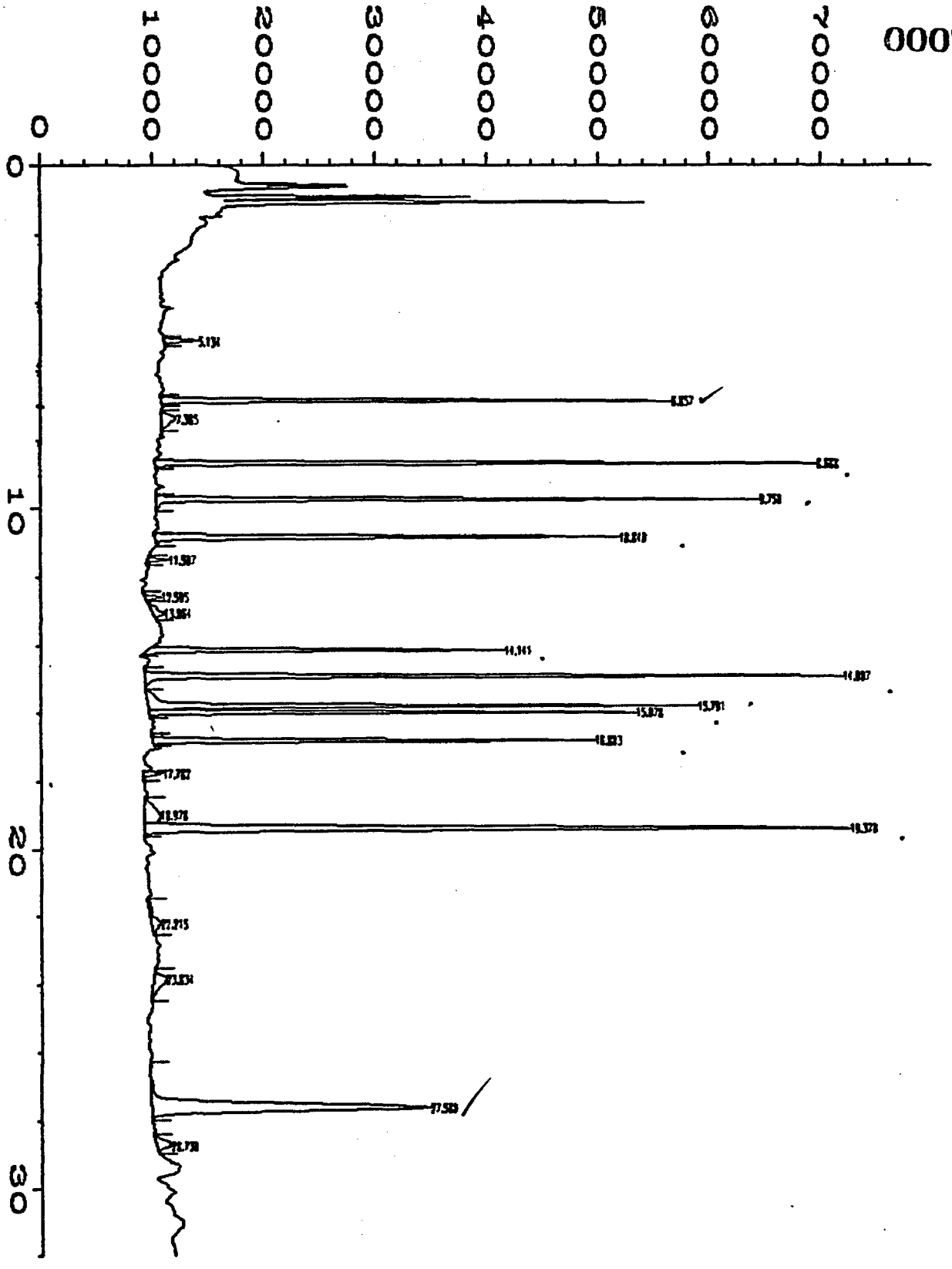


000794

P2/12.1 = 96%

Data File Name	: C:\HPCHEM\3\DATA\3041496\036F1901.D				
Operator	: DLP	Ind AM2F	RTX-35 30m 0.53mm ID	Page Number	: 1
Instrument	: HP3F			Vial Number	: 36
Sample Name	: EPA1-12-A2F			Injection Number	: 1
Run Time Bar Code:				Sequence Line	: 19
Acquired on	: 15 Apr 96 09:08 AM		1ul inj.	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 07:36 PM			Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM			Sample Amount	: 0
Multiplier	: 10			ISTD Amount	:

000795



Data File Name : C:\HPCHEM\3\DATA\3041496\036F1901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A2F
Run Time Bar Code:
Acquired on : 15 Apr 96 09:08 AM
Report Created on: 15 Apr 96 03:25 PM
Last Recalib on : 15 Apr 96 03:25 PM
Multiplier : 1
Sample Info : INDAM2F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 36
Injection Number : 1
Sequence Line : 19
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000796

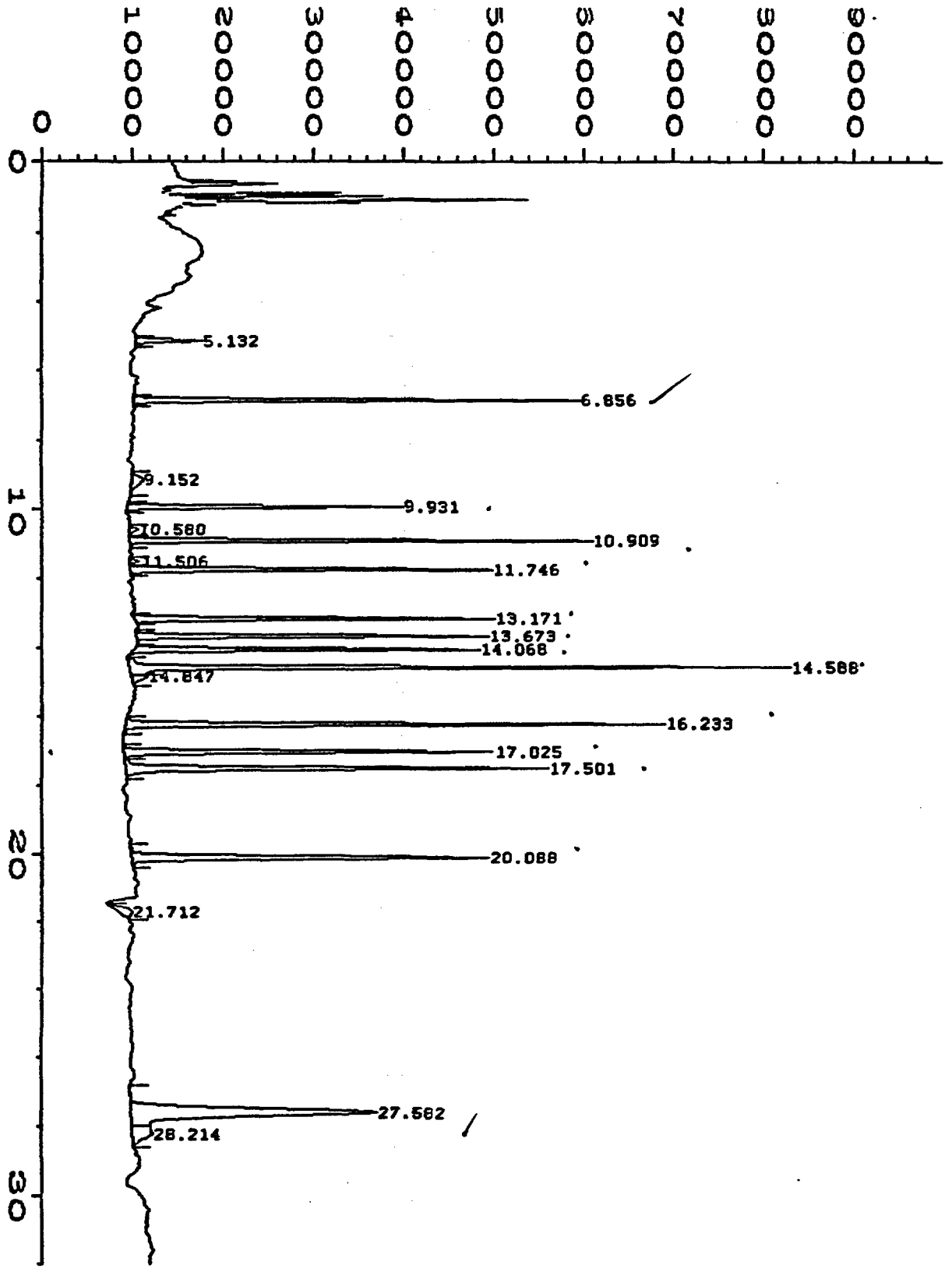
Data File Name : C:\HPCHEM\3\DATA\3041496\038F1901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-A&F
Run Time Bar Code:
Acquired on : 15 Apr 96 10:21 AM
Report Created on: 15 Apr 96 03:28 PM
Last Recalib on : 15 Apr 96 03:28 PM
Multiplier : 1
Sample Info : INDBM&F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 19
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\038F1901.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.856	222993	BV	0.070	1	0.0400	TCX
9.931	137380	BV	0.070	1	0.0400	beta-BHC
10.909	216754	VB	0.066	1	0.0400	delta-BHC
11.746	203939	PV	0.080	1	0.0400	ALDRIN
13.171	202973	BB	0.080	1	0.0400	HEPT. EPOXIDE
13.673	202612	BB	0.081	1	0.0400	g. CHLORDANE
14.068	198021	BV	0.080	1	0.0400	a. CHLORDANE
14.588	364639	PV	0.077	1	0.0800	4,4'-DDE
16.233	303539	BB	0.079	1	0.0800	ENDOSULFAN II
17.025	232190	BV	0.088	1	0.0800	ENDRIN ALDEHYDE
17.501	287598	VB	0.094	1	0.0800	ENDO. SULFATE
20.088	300265	BB	0.119	1	0.0800	ENDRIN KETONE
27.582	443183	BV	0.252	1	0.0800	DCB

000797



Data File Name : C:\HPCHEM\3\DATA\3041496\038F1901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-A2F
Run Time Bar Code:
Acquired on : 15 Apr 96 10:21 AM
Report Created on: 15 Apr 96 11:11 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 1

IndB#12F
RTX-35, 0.53mm ID 30m 2ul inj.

Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 19
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

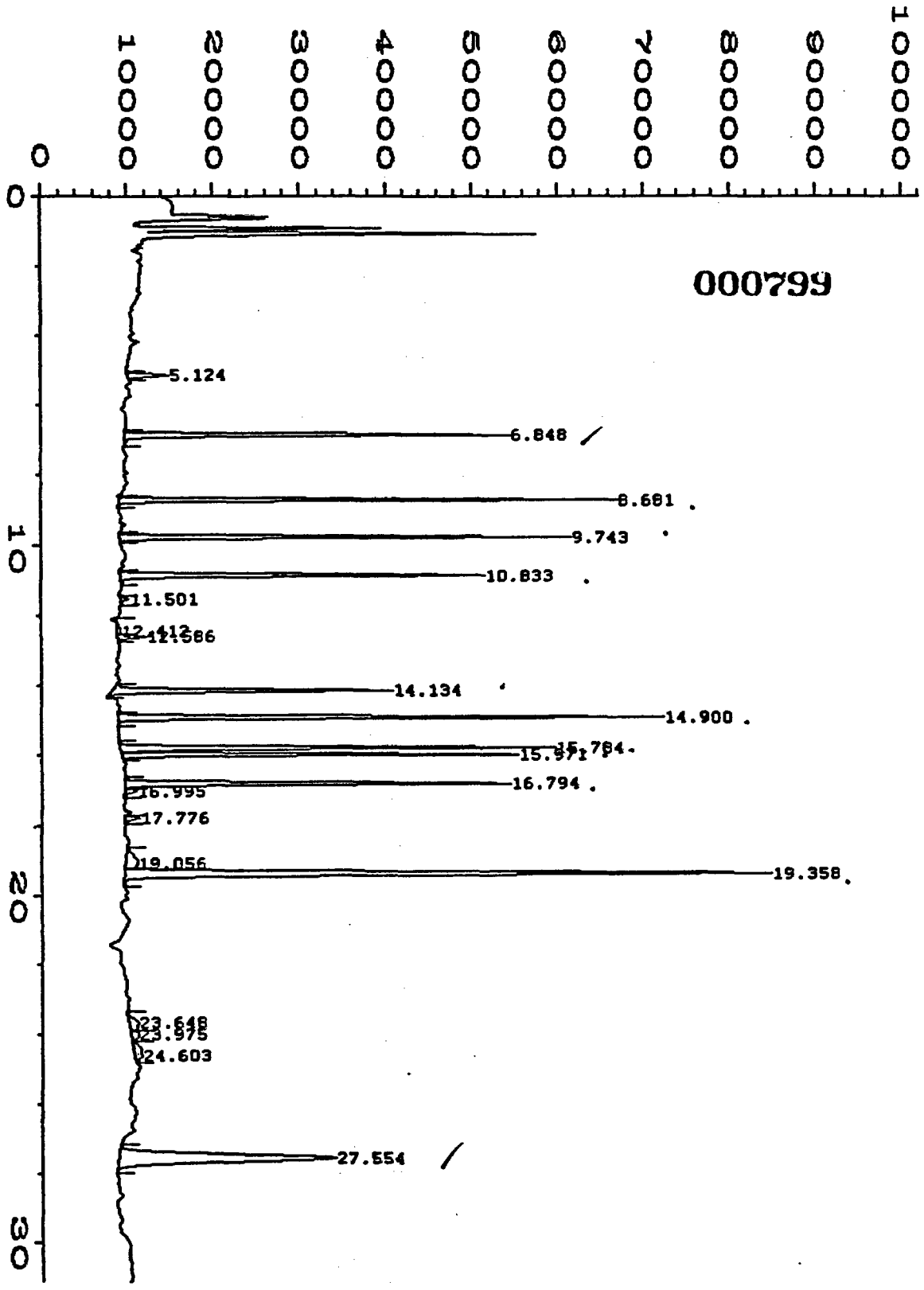
Data File Name : C:\HPCHEM\3\DATA\3041596\028F0101.D 000798
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A3F
Run Time Bar Code:
Acquired on : 16 Apr 96 05:50 AM
Report Created on: 25 Apr 96 02:02 PM
Last Recalib on : 25 Apr 96 02:01 PM
Multiplier : 1

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDART35.MTH
Sample Amount : 0
ISTD Amount :

INDARM3F RTX-35 0.53mm 2µl 30m

Sig. 1 in C:\HPCHEM\3\DATA\3041596\028F0101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.848	204278	BB	0.071	1	0.0400	TCX
8.681	249380	BV	0.068	1	0.0400	alpha-BHC
9.743	233093	BB	0.070	1	0.0400	gamma-BHC
10.833	223791	BB	0.083	1	0.0400	HEPTACHLOR
14.134	174043	BV	0.082	1	0.0400	ENDOSULFAN I
14.900	313450	BB	0.078	1	0.0800	DIELDRIN
15.784	248513	BV	0.077	1	0.0800	ENDRIN
15.971	206722	VV	0.070	1	0.0800	4,4'-DDD
16.794	225274	BV	0.078	1	0.0800	4,4'-DDT
19.358	562770	VB	0.117	1	0.400	METHOXYCHLOR
27.554	381581	PB	0.239	1	0.0800	DCB



Data File Name : C:\HPCHEM\3\DATA\3041596\028F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A3F
Run Time Bar Code:
Acquired on : 16 Apr 96 05:50 AM
Report Created on: 16 Apr 96 06:26 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : INDAM3F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 28
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

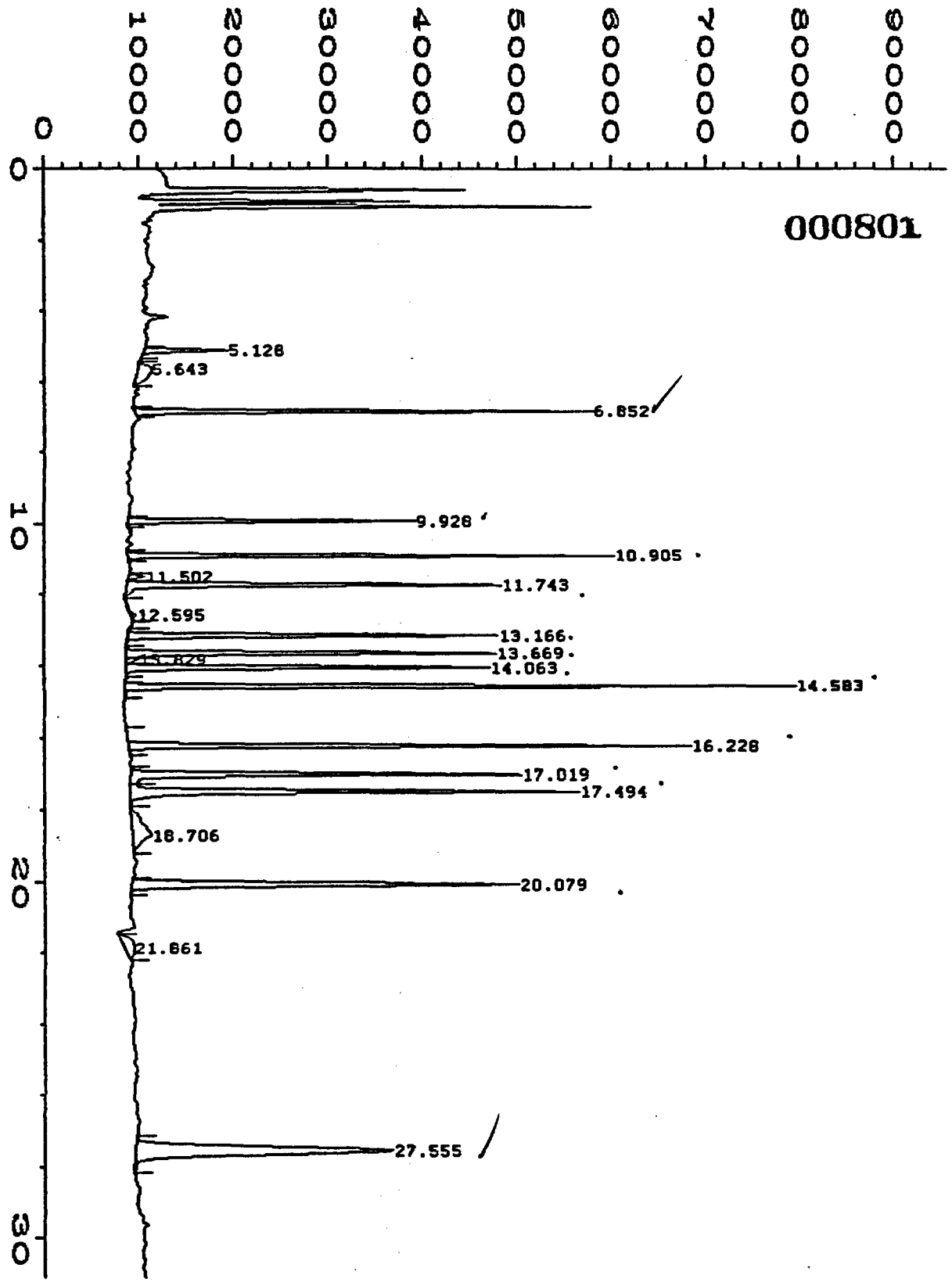
Data File Name : C:\HPCHEM\3\DATA\3041596\030F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-A3F
Run Time Bar Code:
Acquired on : 16 Apr 96 07:02 AM
Report Created on: 25 Apr 96 02:04 PM
Last Recalib on : 25 Apr 96 02:04 PM
Multiplier : 1

Page Number : 000800
Vial Number : 30
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDBRT35.MTH
Sample Amount : 0
ISTD Amount :

INDBM3F RTX-35 0.53mm ID, 2µm 30M

Sig. 1 in C:\HPCHEM\3\DATA\3041596\030F0101.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.852	216189	BV	0.070	1	0.0400	TCX
9.928	136497	BV	0.070	1	0.0400	beta-BHC
10.905	215492	BV	0.066	1	0.0400	delta-BHC
11.743	213709	VV	0.083	1	0.0400	ALDRIN
13.166	198605	BV	0.079	1	0.0400	HEPT. EPOXIDE
13.669	206111	PV	0.081	1	0.0400	g. CHLORDANE
14.063	201331	VV	0.081	1	0.0400	a. CHLORDANE
14.583	324553	BB	0.072	1	0.0800	4,4'-DDE
16.228	299413	BB	0.079	1	0.0800	ENDOSULFAN II
17.019	240902	BV	0.090	1	0.0800	ENDRIN ALDEHYDE
17.494	302088	VV	0.097	1	0.0800	ENDO. SULFATE
20.079	306877	PB	0.117	1	0.0800	ENDRIN KETONE
27.555	413474	BV	0.240	1	0.0800	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041596\030F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 30
Sample Name	: EPA1-16-A3F	Injection Number	: 1
Real Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 07:02 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 07:38 AM	Analysis Method.	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: INDBM3F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000802

Injection C: <PESTEPA> 3 0424SAM,14,1

Acquired on 24-Apr-96 at 18:42:07
Modified on 25-Apr-80 at 15:00:58
Reported on 25-Apr-96 at 15:09:44

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 14:59:44
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-12-A fv
Sample ID.....: INDAM fv
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 14

Retention time update.....: No update
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.511	414666	0.0400	TCX
4	6.324	522467	0.0400	alpha-BHC
6	7.138	498563	0.0400	gamma-BHC
7	7.618	476440	0.0400	HEPTACHLOR
10	11.444	415391	0.0400	ENDOSULFAN I
11	13.182	833939	0.0800	DIELDRIN
12	14.307	699001	0.0800	ENDRIN
13	17.471	587253	0.0800	4,4'-DDD
14	18.916	555126	0.0800	4,4'-DDT
16	24.742	1530069	0.4000	METHOXYCHLOR
21	29.680	629957	0.0800	DCB
Total		7162873	1.0000	
Residual		191150	0.0288	

VG Data Systems - Minichrom v1.66

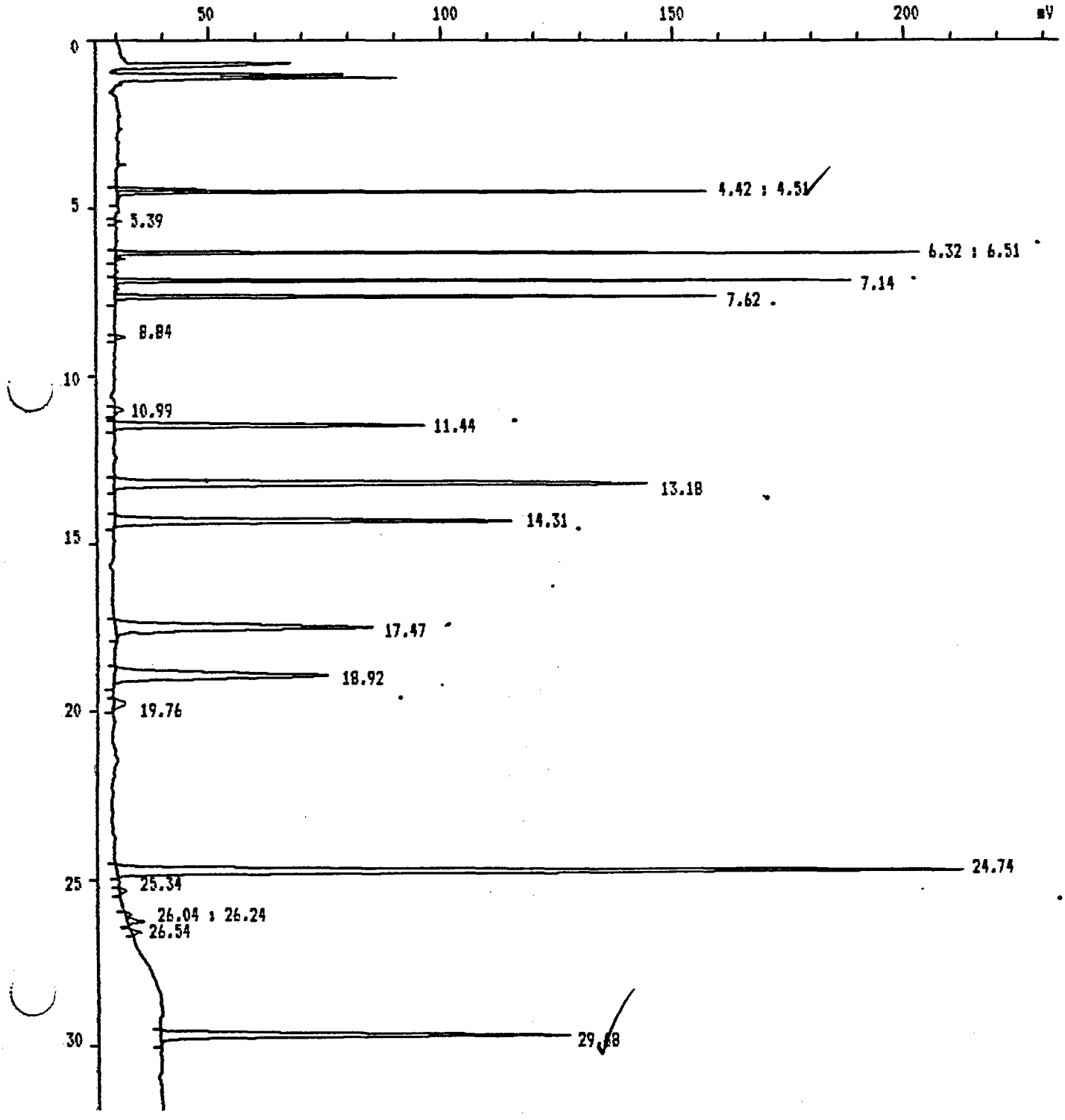
LONG PLOT

000803

Injection C: <PESTEPA> 3 0424SAM,14,1

Sample name.....: EPA1-12-A F2
Sample ID.....: INDAM F2
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 18:42:07
Reported on 24-Apr-96 at 19:16:46



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000804

Injection C: <PESTEPA> 3 0424SAM,16,1

Acquired on 24-Apr-96 at 19:58:37
Modified on 25-Apr-80 at 15:02:14
Reported on 25-Apr-96 at 15:11:49

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 14:59:44
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-16-A f2
Sample ID.....: INDEM f2
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 16

Retention time update.....: No update
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.493	413373	0.0400	TCX
5	8.284	416489	0.0400	ALDRIN
6	8.880	290695	0.0400	beta-BHC
7	9.676	422709	0.0400	delta-BHC
8	10.338	450993	0.0400	HEPT. EPOXIDE
10	11.644	469705	0.0400	g. CHLORDANE
11	11.893	465603	0.0400	a. CHLORDANE
12	12.378	725405	0.0800	4,4'-DDE
13	17.658	769086	0.0800	ENDOSULFAN II
14	21.431	451686	0.0800	ENDRIN ALDEHYDE
15	24.191	624895	0.0800	ENDO. SULFATE
16	26.227	598735	0.0800	ENDRIN KETONE
17	29.658	593506	0.0800	DCB
Total		6692881	0.7600	
Residual		45226	4.2677E-003	

VG Data Systems - Minichrom v1.66

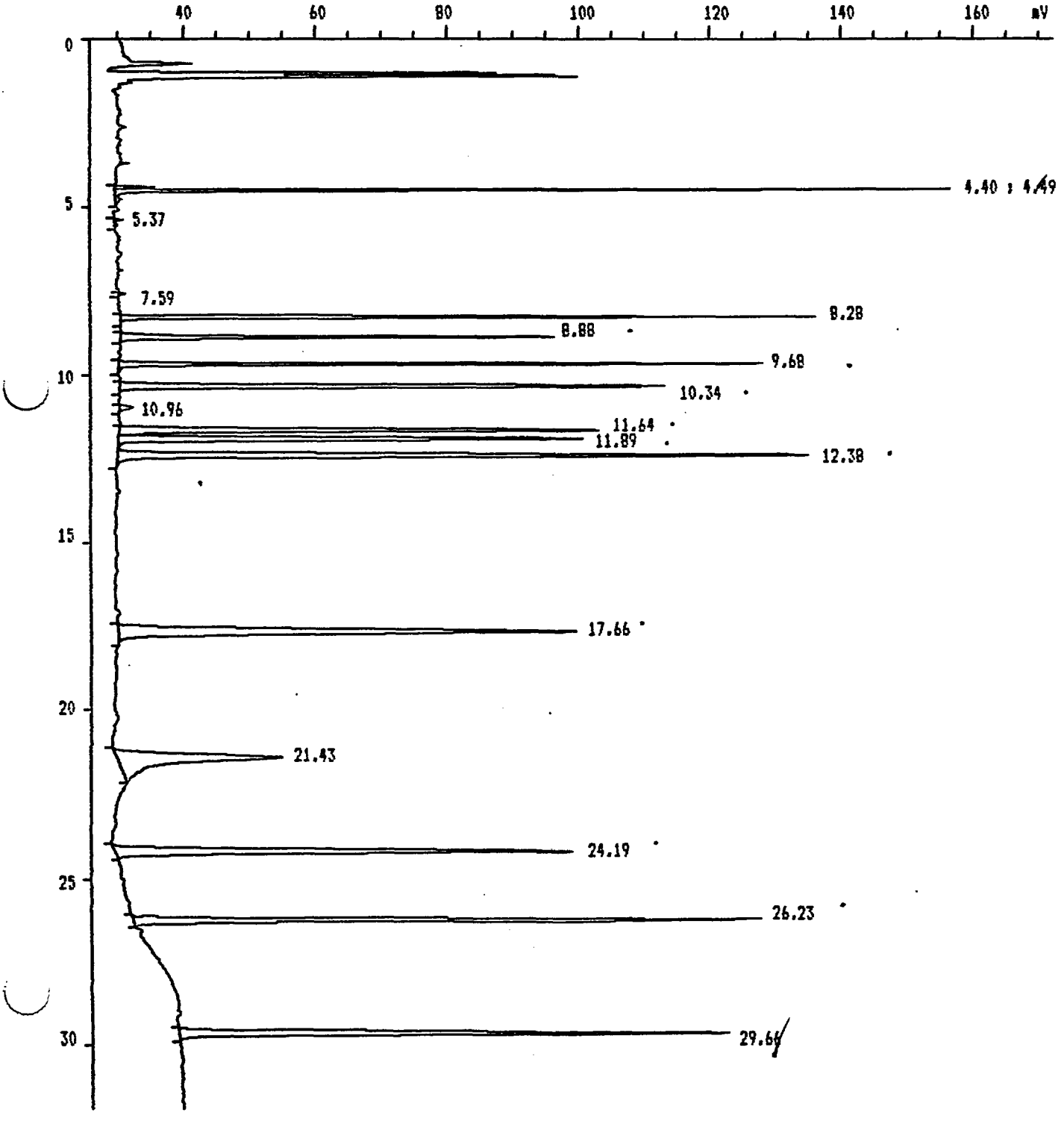
LONG PLOT

Injection C: <PESTEPA> 3 0424SAM,16,1

000805

Sample name.....: EPA1-16-A PV
Sample ID.....: INDBM PV
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 19:58:37
Reported on 24-Apr-96 at 20:33:49



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000806

Injection C: <PESTEPA> 3 0424BSAM,23,1

Acquired on 25-Apr-96 at 10:39:21
Modified on 25-Apr-80 at 15:06:36
Reported on 25-Apr-96 at 15:12:56

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 14:59:44
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-12-A F3
Sample ID.....: INDAM F3
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 48

Retention time update.....: No update
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.502	443437	0.0400	TCX
4	6.320	488924	0.0400	alpha-BHC
6	7.129	465399	0.0400	gamma-BHC
7	7.613	444984	0.0400	HEPTACHLOR
10	11.440	390609	0.0400	ENDOSULFAN I
11	13.173	781274	0.0800	DIELDRIN
12	14.298	640444	0.0800	ENDRIN
13	17.462	556483	0.0800	4,4'-DDD
14	18.907	509004	0.0800	4,4'-DDT
16	24.733	1432686	0.4000	METHOXYCHLOR
20	29.676	604314	0.0800	DCB
Total		6757558	1.0000	
Residual		259505	0.0376	

VG Data Systems - Minichrom v1.66

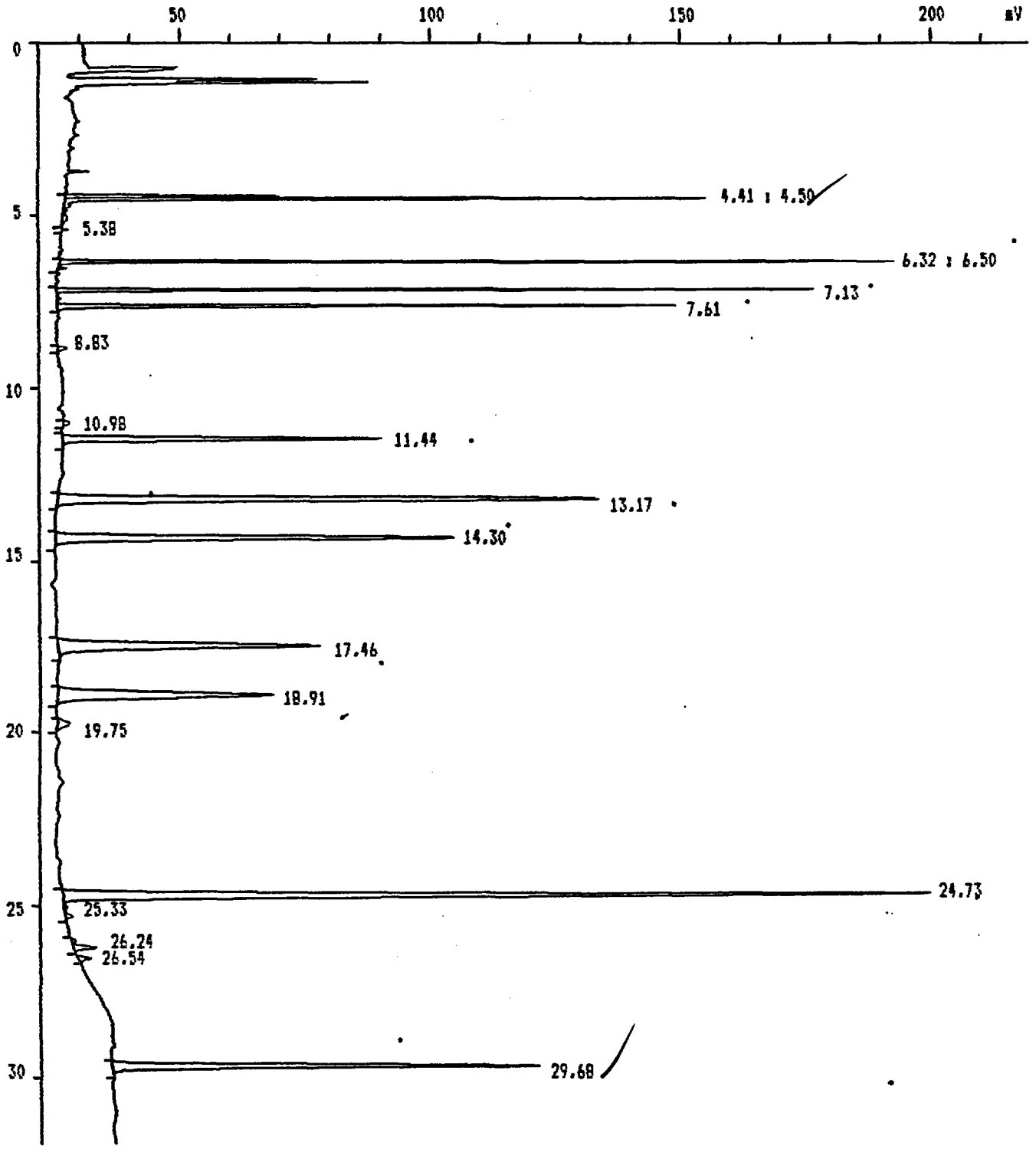
LONG PLOT

Injection C: <PESTEPA> 3 0424BSAM,23,1

000807

Sample name.....: EPA1-12-A F3
Sample ID.....: INDAM F3
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 10:39:21
Reported on 25-Apr-96 at 13:36:24



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000808

Injection C: <PESTEPA> 3 0424BSAM,25,1

Acquired on 25-Apr-96 at 11:55:54
Modified on 25-Apr-80 at 15:07:38
Reported on 25-Apr-96 at 15:13:59

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 13:47:38
Method file.....: PEST2FPR Last modified on 25-Apr-80 at 14:59:44
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-16-A f3
Sample ID.....: INDBM f3
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 50

Retention time update.....: No update
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	4.493	427130	0.0400	TCX
4	8.289	393524	0.0400	ALDRIN
5	8.884	269929	0.0400	beta-BHC
6	9.680	389504	0.0400	delta-BHC
7	10.338	435339	0.0400	HEPT. EPOXIDE
8	11.653	446546	0.0400	g. CHLORDANE
9	11.902	445432	0.0400	a. CHLORDANE
10	12.382	686639	0.0800	4,4'-DDE
11	17.667	741252	0.0800	ENDOSULFAN II
12	21.440	437726	0.0800	ENDRIN ALDEHYDE
13	24.200	608985	0.0800	ENDO. SULFATE
14	26.236	588981	0.0800	ENDRIN KETONE
16	29.667	594764	0.0800	DCB
Total		6465750	0.7600	
Residual		150585	0.0148	

VG Data Systems - Minichrom v1.66

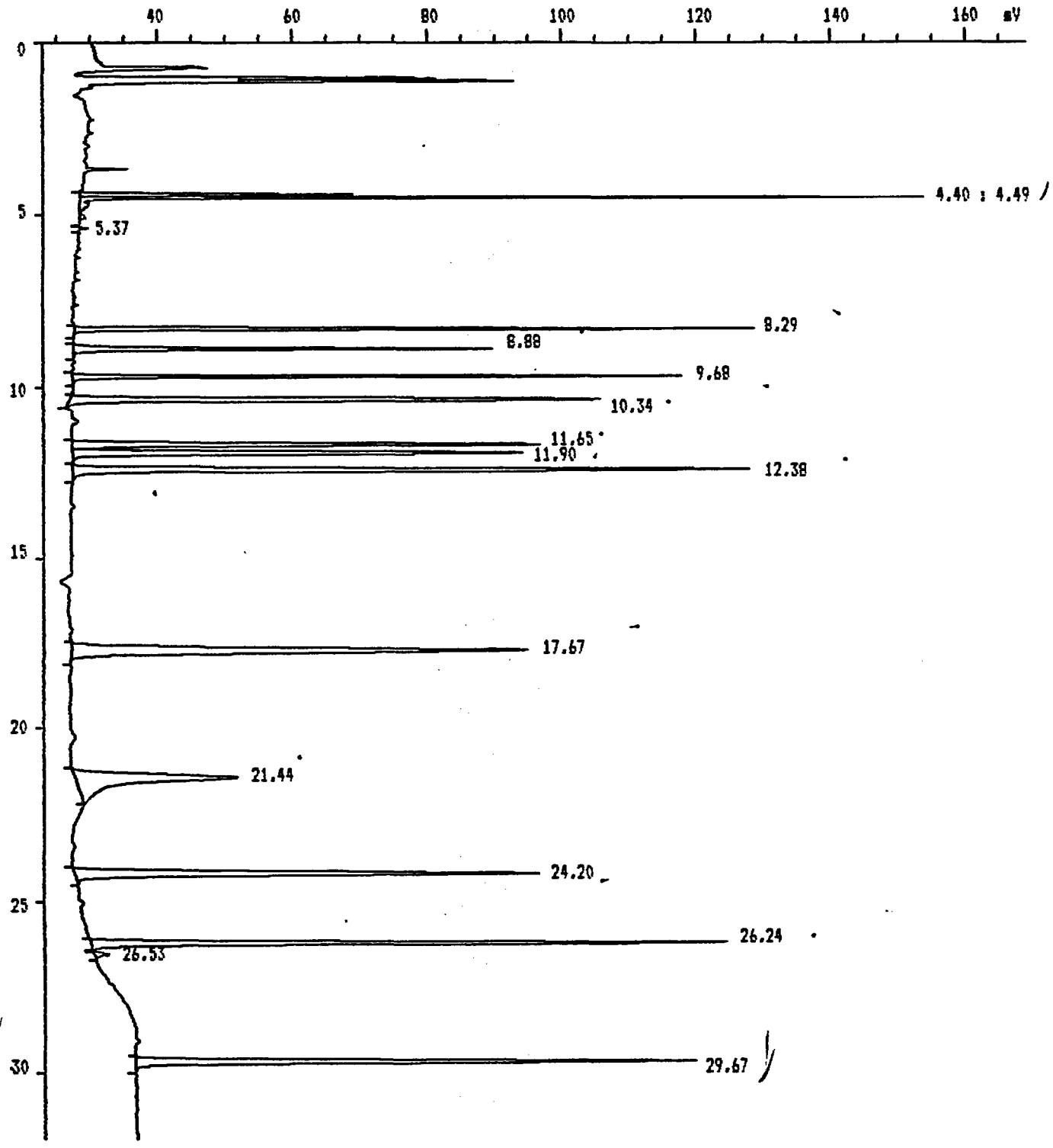
LONG PLOT

Injection C: <PESTEPA> 3 0424BSAM,25,1

000809

Sample name.....: EPA1-16-A F3
Sample ID.....: INDBM F3
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 11:55:54
Reported on 25-Apr-96 at 13:45:01



1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000810 PBLK2

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 033096H

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

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

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3041596\005F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 033096H
Run Time Bar Code: 16 14
Acquired on : 15 Apr 96 04:14 PM
Report Created on: 15 Apr 96 04:49 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : PBLK2, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 000811 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

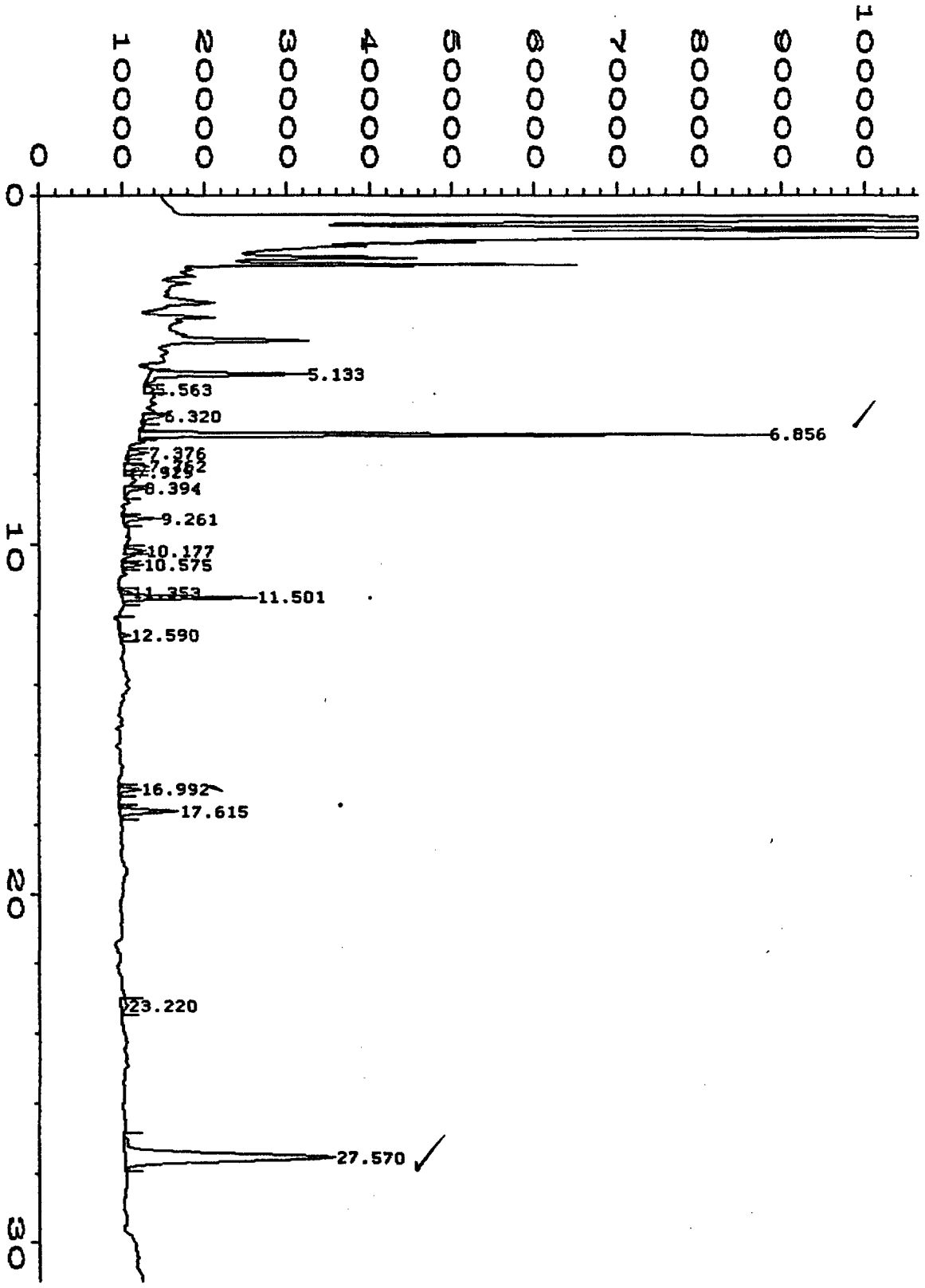
Sig. 1 in C:\HPCHEM\3\DATA\3041596\005F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.856	344068	BV	0.070	1	10.992	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.992	14159	BB	0.088	1	0.886	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.570	389876	BV	0.240	1	13.268	DCB

Ø 4/16/96

Not all calibrated peaks were found

000812



Data File Name	: C:\HPCHEM\3\DATA\3041596\005F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 5
Sample Name	: 033096H	Injection Number	: 1
Run Time Bar Code:	16 14	Sequence Line	: 1
Acquired on	: 15 Apr 96 04:14 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:49 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 333	ISTD Amount	:
Sample Info	: PBLK2, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000813

Injection C: <PESTEPA> 3 0424SAM,3,1

Acquired on 24-Apr-96 at 11:18:08
Modified on 24-Apr-80 at 11:51:12
Reported on 24-Apr-96 at 11:51:33

ANALYSIS INFORMATION

B 4/24/96

Analysis ID.....:
Analyst name.....: DLP
DB-1701
Comment.....: INST ID: HP2F, COL TYPE: ~~RTX-35~~ ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 11:51:10
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 033096H
Sample ID.....: PBLK2
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 3

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
3	4.502	682241	11.0814	TCX
14	7.582	45043	0.6471	HEPTACHLOR
22	29.671	611553	13.6491	DCB
Total		1338837	25.3776	
Residual		1094296	17.2404	

VG Data Systems - Minichrom v1.66

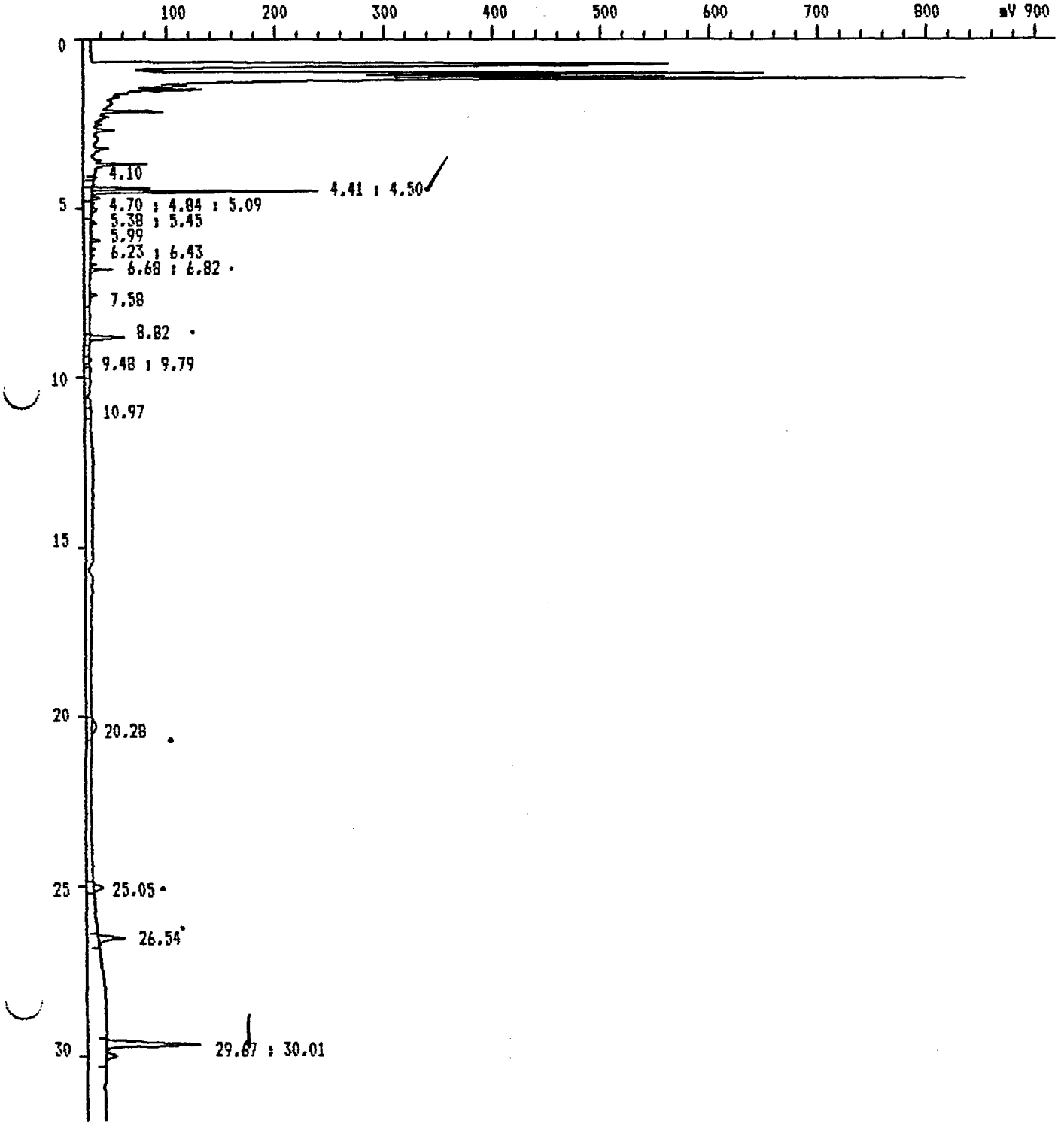
LONG PLOT

000814

Injection C: <PESTEPA> 3 0424SAM,3,1

Sample name.....: 033096H
Sample ID.....: PBLK2
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 11:18:08
Reported on 24-Apr-96 at 11:52:29



1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000815

PIBLK1F

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-A1F

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

000816

Data File Name	: C:\HPCHEM\3\DATA\3041496\026F1701.D		
Operator	: DLP	PIBLK IF	RTX-35
Instrument	: HP3F		30m
Sample Name	: EPA1-7-A1F		0.53mm ID
Run Time Bar Code:			2uL inj.
Acquired on	: 15 Apr 96 03:04 AM		
Report Created on:	15 Apr 96 02:32 PM		
Last Recalib on	: 15 APR 96 08:01 AM		
Multiplier	: 10		

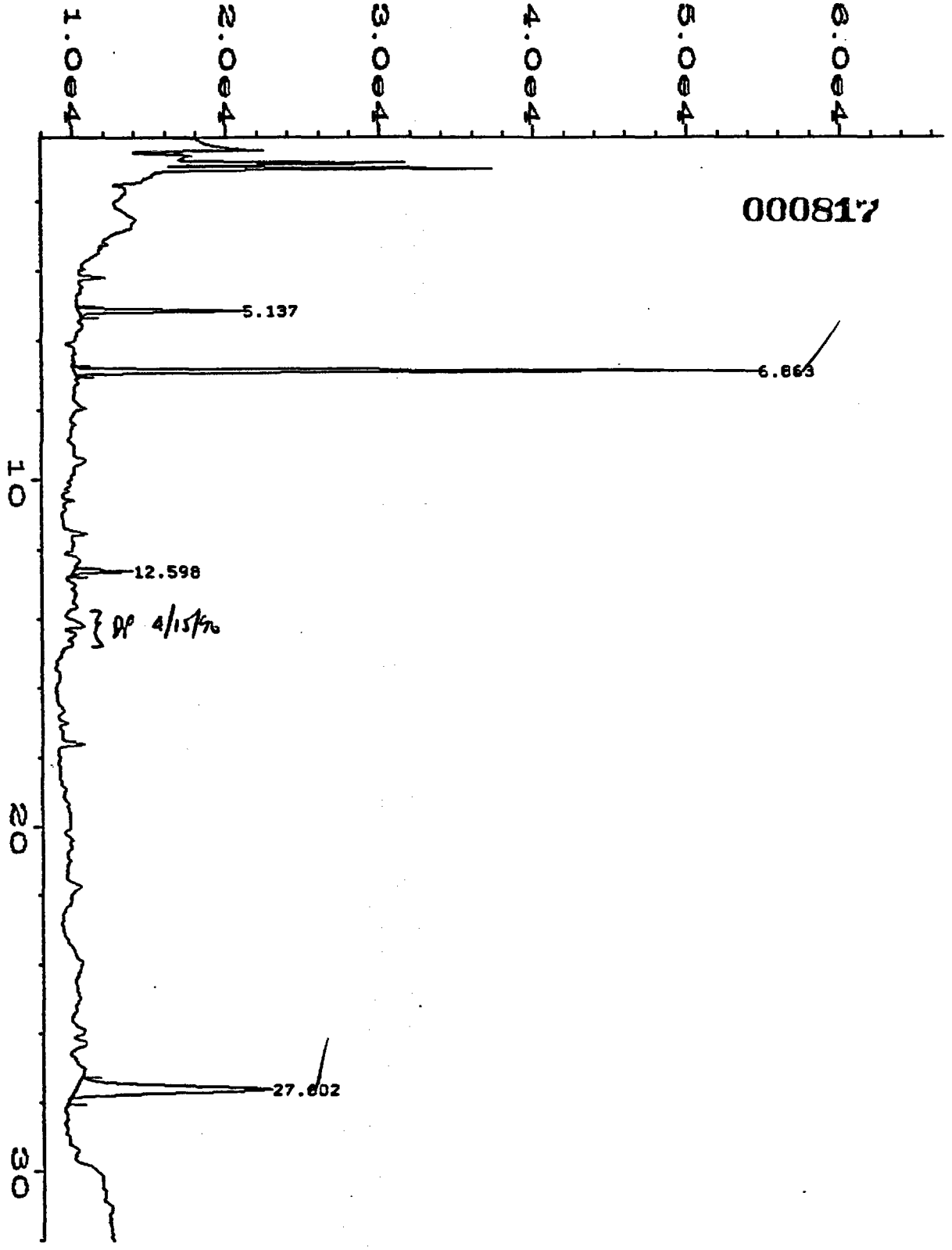
Page Number	: 1
Vial Number	: 26
Injection Number	: 1
Sequence Line	: 17
Instrument Method:	EPAMTH_F.MTH
Analysis Method	: EPAMTH_F.MTH
Sample Amount	: 0
ISTD Amount	:

Sig. 1 in C:\HPCHEM\3\DATA\3041496\026F1701.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.863	201256	BB	0.070	1	0.193	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.602	190168	BB	0.230	1	0.194	DCB

Not all calibrated peaks were found

All calibrations are copies
RD 050196 Originals retained at
AATSLA
Pages 000816 To 000841



DP 4/15/96

Data File Name	: C:\HPCHEM\3\DATA\3041496\026F1701.D				
Operator	: DLP	PIBIL IF	RTX-35	Page Number	: 1
Instrument	: HP3F		30m	Vial Number	: 26
Sample Name	: EPA1-7-A1F		0.53mm ID	Injection Number	: 1
Run Time Bar Code:				Sequence Line	: 17
Acquired on	: 15 Apr 96 03:04 AM		2 uL inj	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 02:32 PM			Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM			Sample Amount	: 0
Multiplier	: 10			ISTD Amount	:

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000818

PIBLK2F

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-A2F

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

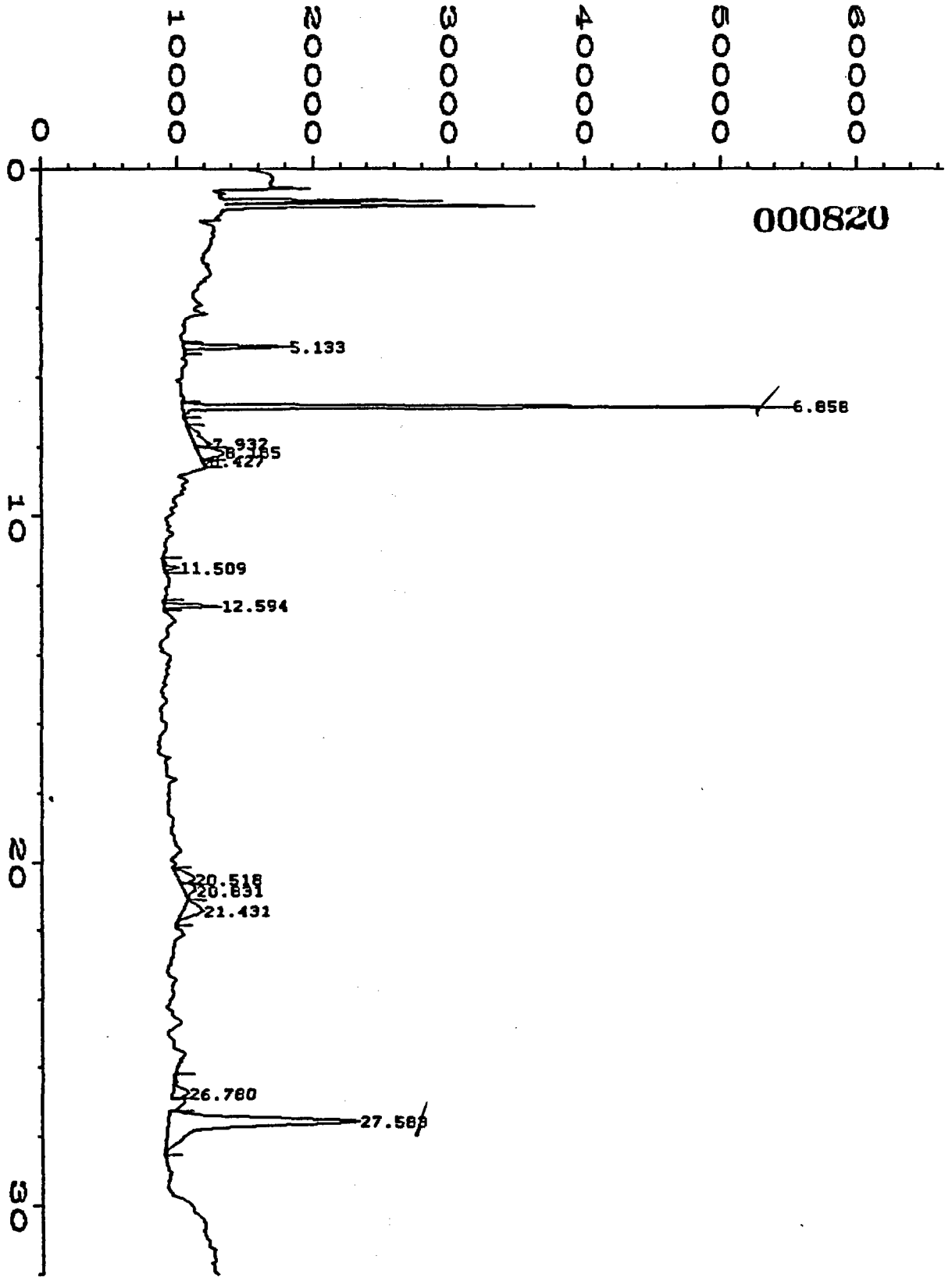
000819

Data File Name	: C:\HPCHEM\3\DATA\3041496\034F1901.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 34
Sample Name	: EPA1-7-A2F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 19
Acquired on	: 15 Apr 96 07:55 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 02:56 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PIBLK2F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

Sig. 1 in C:\HPCHEM\3\DATA\3041496\034F1901.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.858	205590	BB	0.071	1	0.197	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.583	259576	VV	0.276	1	0.265	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041496\034F1901.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 34
Sample Name	: EPA1-7-A2F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 19
Acquired on	: 15 Apr 96 07:55 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 02:56 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PIBLK2F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000821

EPA SAMPLE NO.

PIBLK3F

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-A3F

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/15/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

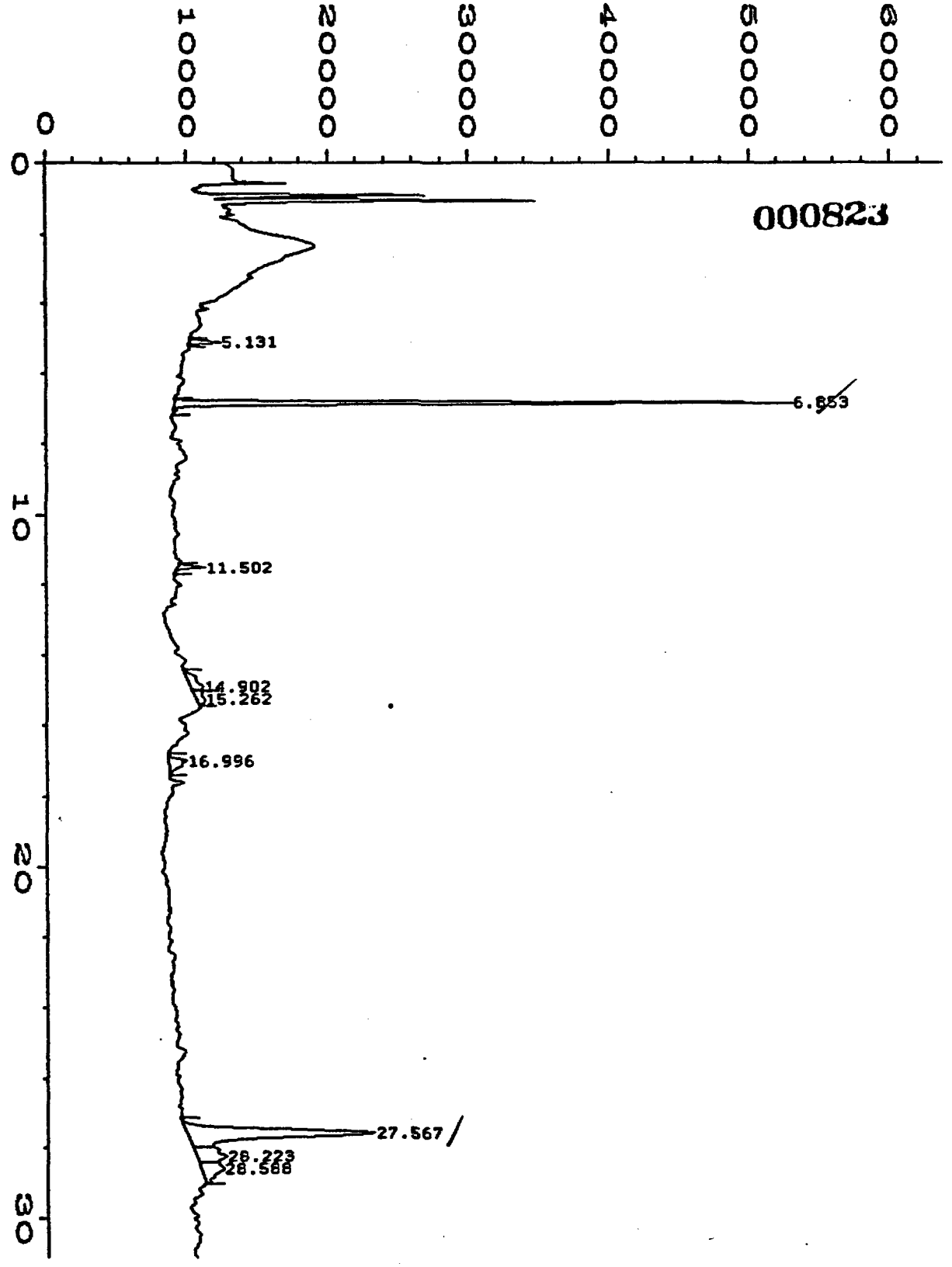
Data File Name : C:\HPCHEM\3\DATA\3041596\011F0101.D 000822
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-7-A3F
Run Time Bar Code: 1947
Acquired on : 15 Apr 96 07:47 PM
Report Created on: 15 Apr 96 08:22 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : PIBLK3F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\011F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.853	200719	BB	0.071	1	0.193	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.902	17820	BV	0.338	1	0.0225	DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.996	19152	BB	0.213	1	0.0360	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.567	222372	BV	0.258	1	0.227	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\011F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 11
Sample Name	: EPA1-7-A3F	Injection Number	: 1
Run Time Bar Code:	1947	Sequence Line	: 1
Acquired on	: 15 Apr 96 07:47 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 08:22 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PIBLK3F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000824

EPA SAMPLE NO.

PIBLK4F

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-A4F

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

000825

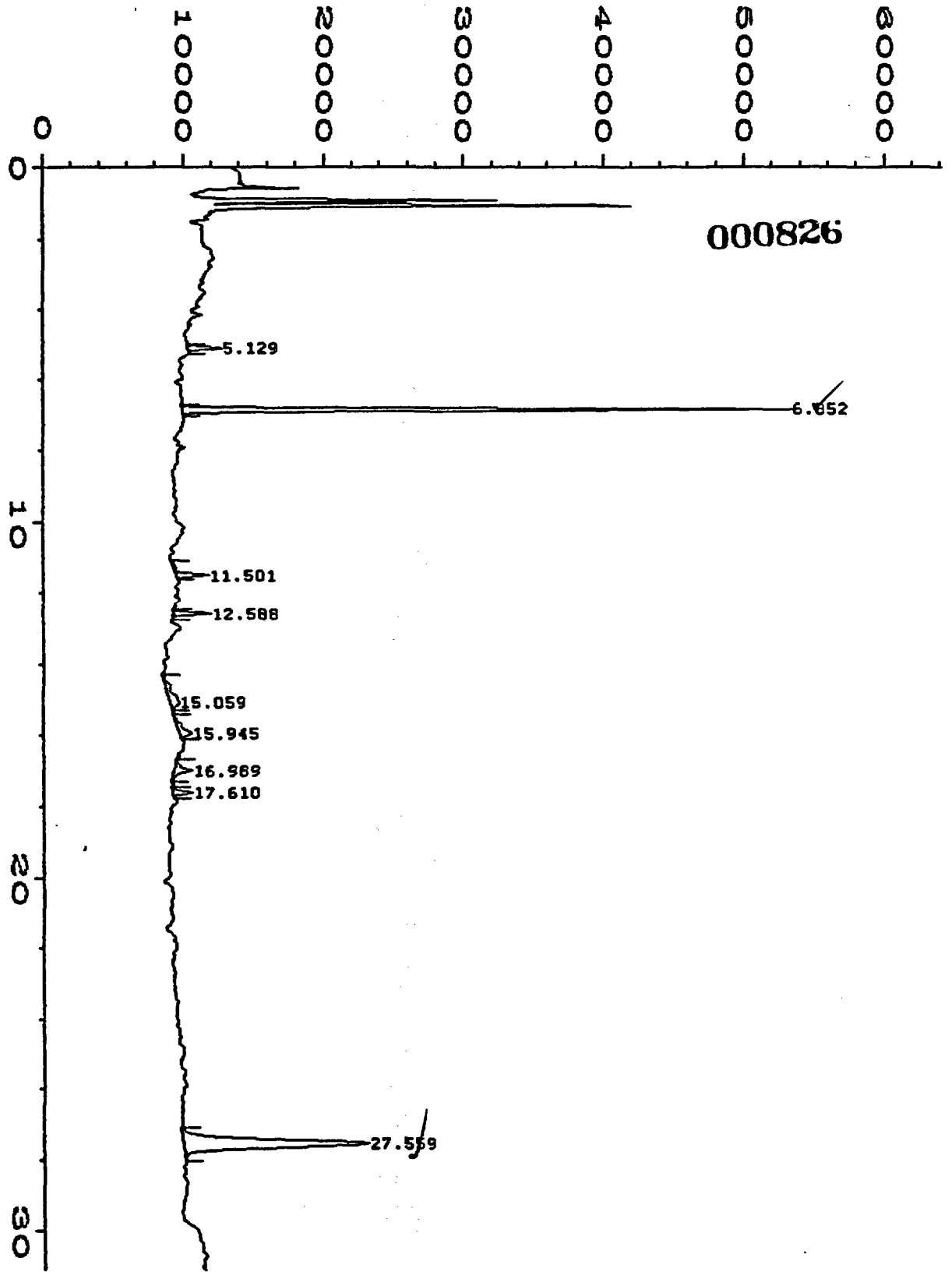
Data File Name : C:\HPCHEM\3\DATA\3041596\027F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-7-A4F
Run Time Bar Code:
Acquired on : 16 Apr 96 05:15 AM
Report Created on: 16 Apr 96 05:50 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : PIBLK4F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 27
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\027F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.852	194322	BB	0.070	1	0.186	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.945	13611	BV	0.209	1	0.0268	4,4'-DDD < NU
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
16.989	14721	BV	0.145	1	0.0277	ENDRIN ALDEHYDE < NU
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.559	206553	BV	0.245	1	0.211	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\027F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 27
Sample Name	: EPA1-7-A4F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 05:15 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 05:50 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PIBLK4F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000827

EPA SAMPLE NO.

PIBLK5F

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-A5F

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3041596\043F0101.D 000828
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-7-A5F
Run Time Bar Code: 14 43
Acquired on : 16 Apr 96 02:43 PM
Report Created on: 16 Apr 96 03:18 PM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : PIBLK5F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

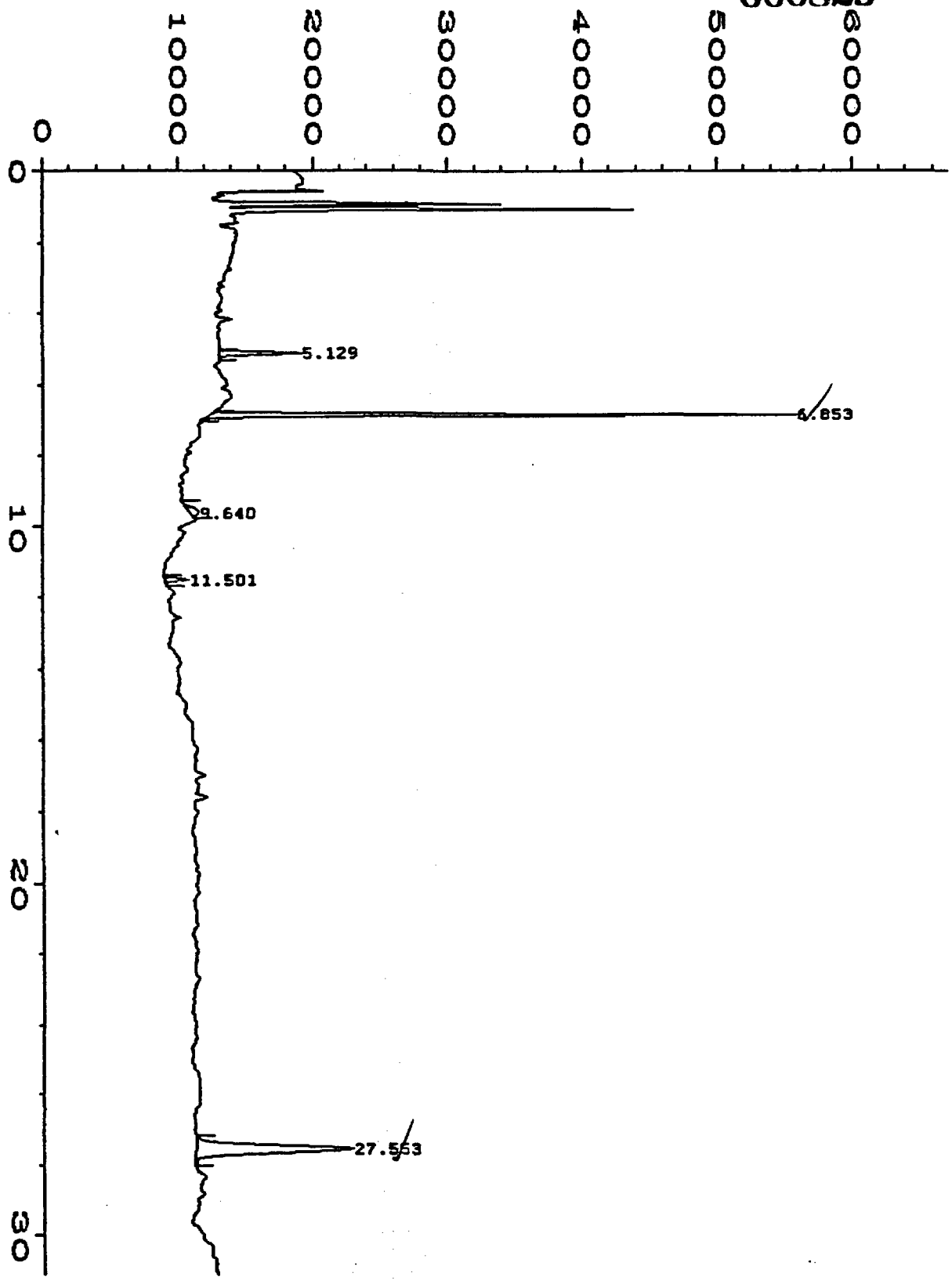
Page Number : 1
Vial Number : 43
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\043F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.853	195655	BV	0.070	1	0.188	TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.250	* not found *			1		ENDOSULFAN II
16.818	* not found *			1		4,4'-DDT
17.019	* not found *			1		ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.553	172843	BB	0.236	1	0.177	DCB

Not all calibrated peaks were found

000829



Data File Name	: C:\HPCHEM\3\DATA\3041596\043F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 43
Sample Name	: EPA1-7-A5F	Injection Number	: 1
Run Time Bar Code:	14 43	Sequence Line	: 1
Acquired on	: 16 Apr 96 02:43 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 03:19 PM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: PIBLK5F , HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000830

EPA SAMPLE NO.

PIBLKF1

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-AF1

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/24/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

VG Data Systems - Minichrom v1.66

INJECTION REPORT 000831

Injection C: <PESTEPA> 3 JUNKCAL,26,1

Acquired on 24-Apr-96 at 06:25:39
Modified on 24-Apr-80 at 20:11:14
Reported on 24-Apr-96 at 20:11:38

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 19:53:24
Method file.....: PEST2FPR Last modified on 24-Apr-80 at 10:25:12
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-7-AF1
Sample ID.....: PIBLK F1
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 29

User factors:
EXTRACTION FACTOR.....: 10.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
2	4.484	367166	0.1791	TCX
8	29.644	280289	0.1879	DCB
Total		647455	0.3669	
Residual		168055	0.0820	

VG Data Systems - Minichrom v1.66

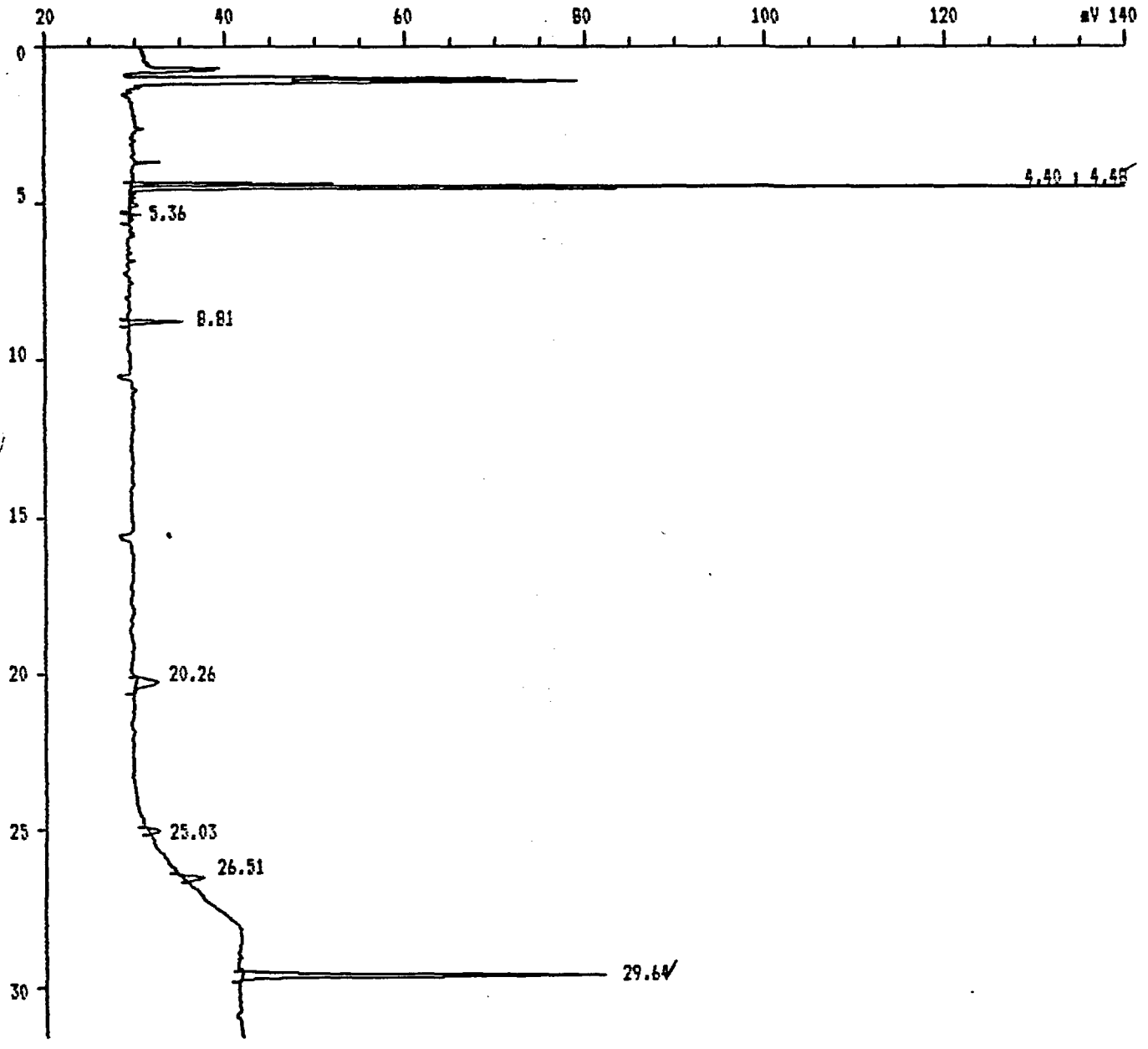
LONG PLOT

000832

Injection C: <PESTEPA> 3 JUNKCAL,26,1

Sample name.....: EPA1-7-AF1
Sample ID.....: PIBLKF1
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 06:25:39
Reported on 24-Apr-96 at 20:12:54



1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000833

PIBLKF2

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-AF2

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/24/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

VG Data Systems - Minichrom v1.66

INJECTION REPORT 000834

njection C: <PESTEPA> 3 0424SAM,12,1

Acquired on 24-Apr-96 at 17:25:41
Modified on 24-Apr-80 at 17:58:38
Reported on 24-Apr-96 at 17:59:00

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 17:58:36
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-7-A F2
Sample ID.....: PIBLK F2
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 12

User factors:
EXTRACTION FACTOR.....: 10.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
2	4.511	382366	0.1865	TCX
4	8.840	29919	0.0220	beta-BHC NV <
8	29.684	310369	0.2080	DCB
Total		722653	0.4165	
Residual		95609	0.0616	

VG Data Systems - Minichrom v1.66

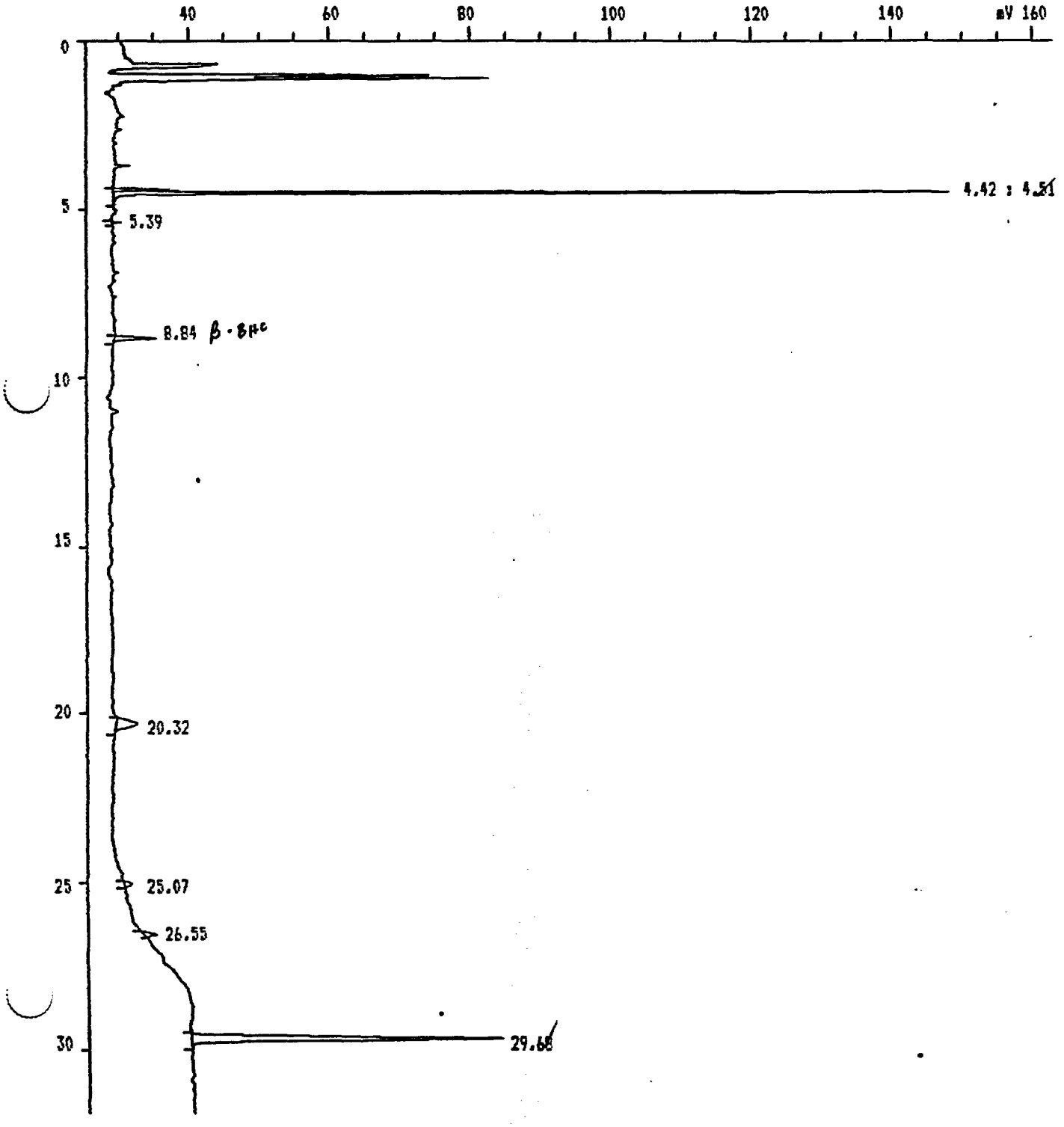
LONG PLOT

000835

Injection C: <PESTEPA> 3 0424SAM,12,1

Sample name.....: EPA1-7-A F2
Sample ID.....: PIBLK F2
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 17:25:41
Reported on 24-Apr-96 at 17:59:56



1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 000836

EPA SAMPLE NO.

PIBLKF3

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-AF3

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/25/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

VG Data Systems - Minichrom v1.66

INJECTION REPORT 000837

Injection C: <PESTEPA> 3 0424BSAM,7,1

Acquired on 25-Apr-96 at 00:27:35
Modified on 25-Apr-80 at 01:00:44
Reported on 25-Apr-96 at 01:01:06

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 23:44:08
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-7-AF3
Sample ID.....: PIBLK F3
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 32

User factors:
EXTRACTION FACTOR.....: 10.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
2	4.493	366572	0.1788	TCX
5	29.658	299391	0.2007	DCB
Total		665963	0.3795	
Residual		101626	0.0496	

VG Data Systems - Minichrom v1.66

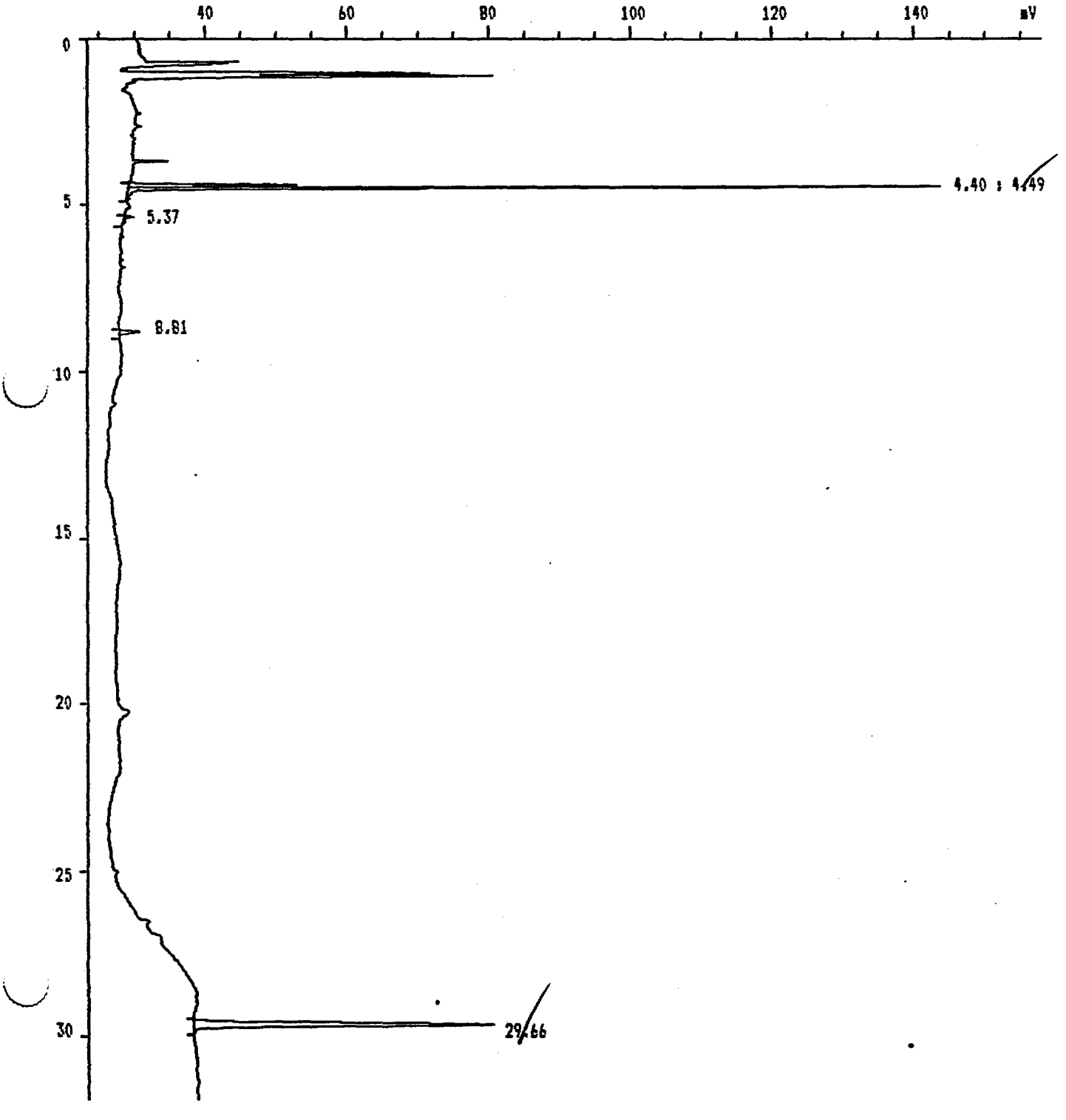
LONG PLOT

000838

Injection C: <PESTEPA> 3 0424BSAM,7,1

Sample name.....: EPA1-7-A F3
Sample ID.....: PIBLK F3
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 00:27:35
Reported on 25-Apr-96 at 01:02:01



1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET 000839

EPA SAMPLE NO.

PIBLKF4

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) WATER Lab Sample ID: EPA1-7-AF4

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

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

Extraction: (SepF/Cont/Sonc) Date Extracted:

Concentrated Extract Volume: (uL) Date Analyzed: 04/25/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.025	U
319-85-7	beta-BHC	0.025	U
319-86-8	delta-BHC	0.025	U
58-89-9	gamma-BHC (Lindane)	0.025	U
76-44-8	Heptachlor	0.025	U
309-00-2	Aldrin	0.025	U
1024-57-3	Heptachlor epoxide	0.025	U
959-98-8	Endosulfan I	0.025	U
60-57-1	Dieldrin	0.050	U
72-55-9	4,4'-DDE	0.050	U
72-20-8	Endrin	0.050	U
33213-65-9	Endosulfan II	0.050	U
72-54-8	4,4'-DDD	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
50-29-3	4,4'-DDT	0.050	U
72-43-5	Methoxychlor	0.25	U
53494-70-5	Endrin ketone	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
5103-71-9	alpha-Chlordane	0.025	U
5103-74-2	gamma-Chlordane	0.025	U
8001-35-2	Toxaphene	2.5	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	0.50	U
11096-82-5	Aroclor-1260	0.50	U

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000840

Injection C: <PESTEPA> 3 0424BSAM,21,1

Acquired on 25-Apr-96 at 09:22:45
Modified on 25-Apr-80 at 10:15:38
Reported on 25-Apr-96 at 10:16:01

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701: 0.53mm, INJ: 2ul
Number of samples.: 26
Calibration file..: 0423CAL Last modified on 25-Apr-80 at 08:39:34
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: EPA1-7-A FY
Sample ID.....: PIBLK FY
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 46

User factors:
EXTRACTION FACTOR.....: 10.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
2	4.489	368085	0.1795	TCX
8	29.662	300569	0.2015	DCB
Total		668654	0.3810	
Residual		362005	0.1766	

VG Data Systems - Minichrom v1.66

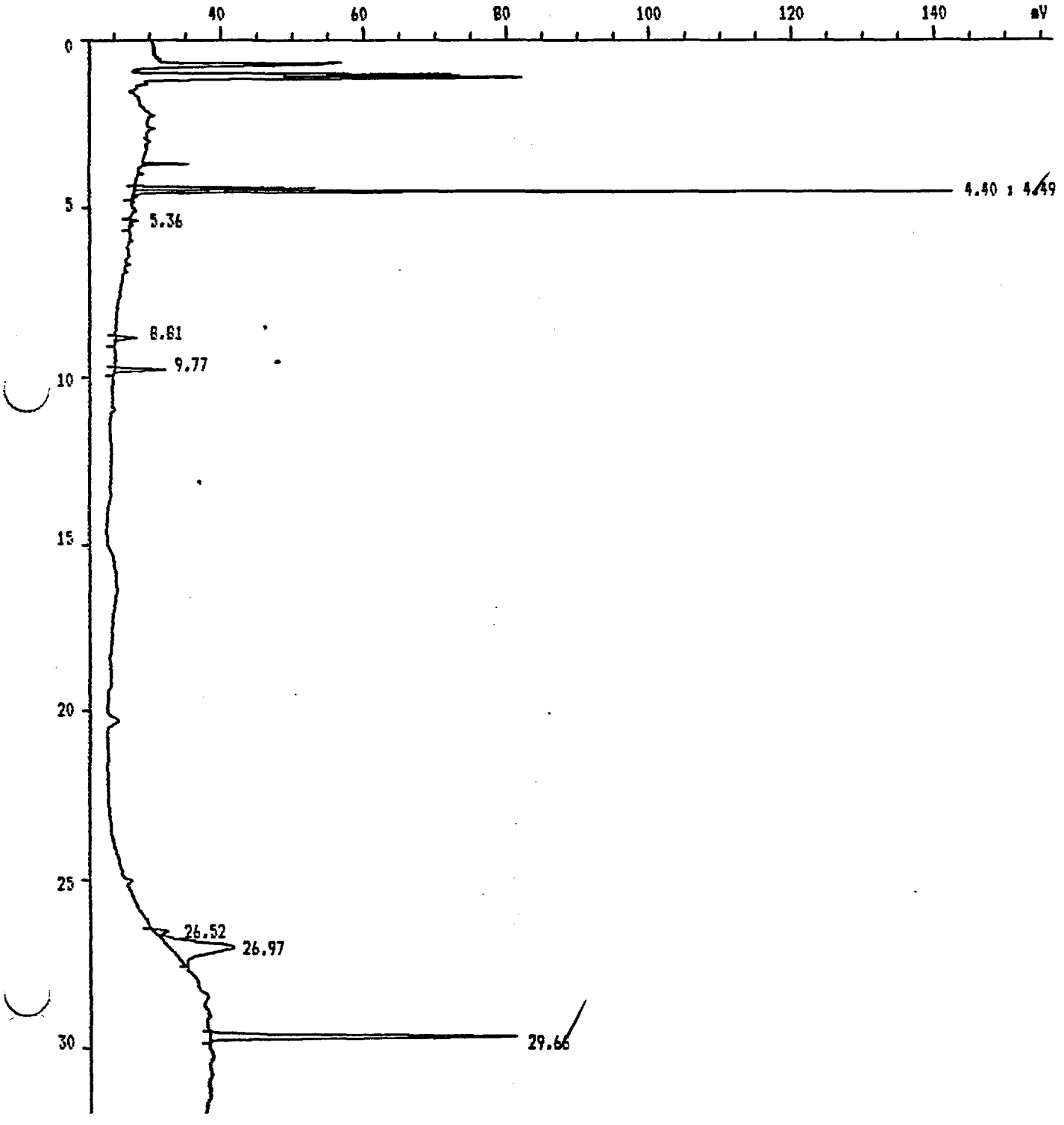
LONG PLOT

000841

Injection C: <PESTEPA> 3 0424BSAM,21,1

Sample name.....: EPA1-7-A FY
Sample ID.....: PIBLK FY
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 25-Apr-96 at 09:22:45
Reported on 25-Apr-96 at 10:16:56



1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

000842

FER99MS

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15411_07MS

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

% Moisture: 13 decanted: (Y/N) N Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	17	
76-44-8	Heptachlor	19	
309-00-2	Aldrin	19	
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	41	
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	44	
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	48	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

External Standard Report

000843

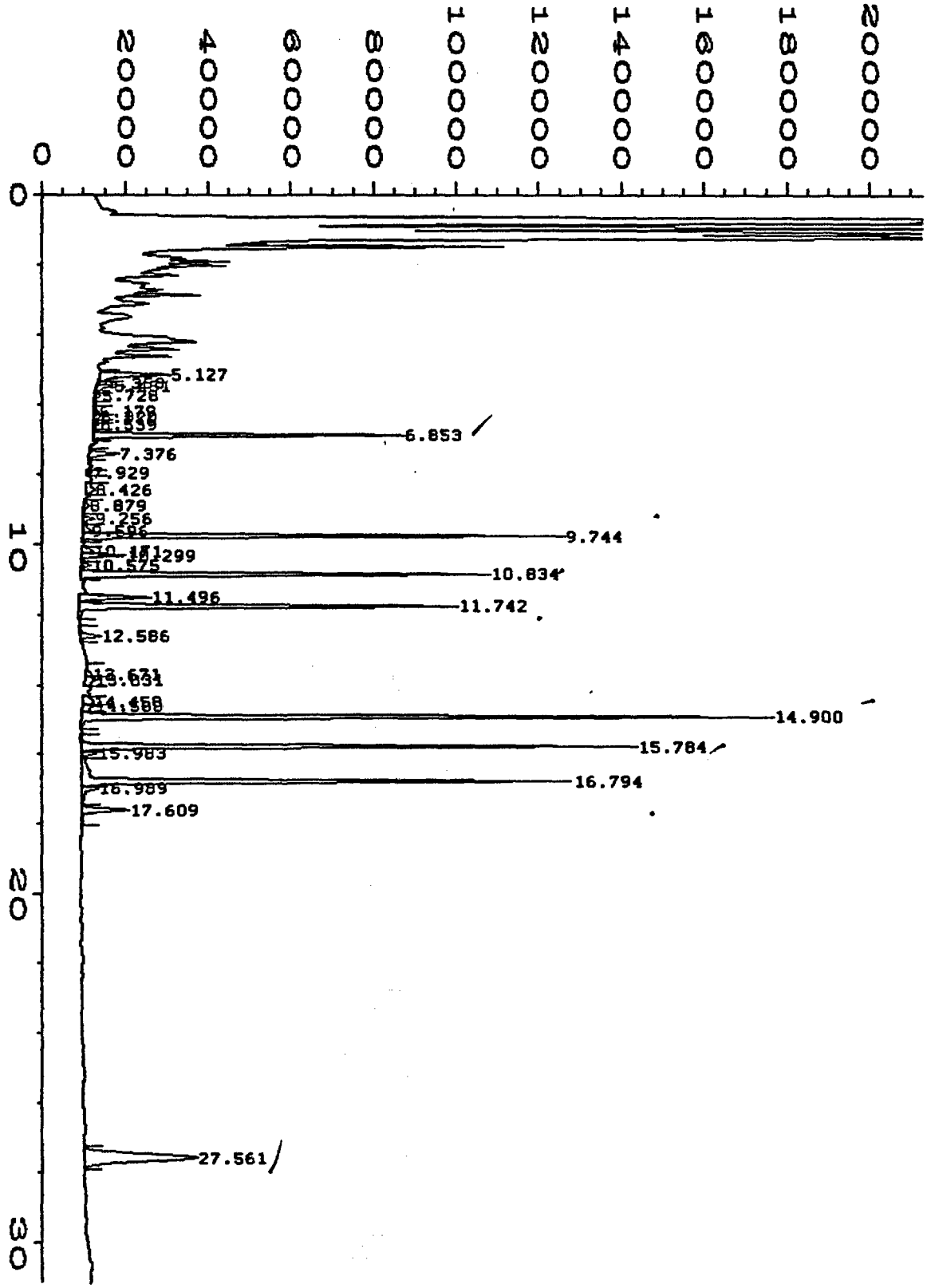
Data File Name : C:\HPCHEM\3\DATA\3041596\023F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15411.07MS
Run Time Bar Code:
Acquired on : 16 Apr 96 02:53 AM
Report Created on: 16 Apr 96 08:18 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER99MS, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\023F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.853	344790	PV	0.071	1	11.015	TCX
8.701 * not found *				1		alpha-BHC
9.744	540783	VV	0.073	1	14.615	gamma-BHC
9.946 * not found *				1		beta-BHC
10.834	527057	VV	0.084	1	16.275	HEPTACHLOR
10.924 * not found *				1		delta-BHC
11.742	482591	VV	0.083	1	16.114	ALDRIN
13.187 * not found *				1		HEPT. EPOXIDE
13.671	12104	BV	0.134	1	0.391	g. CHLORDANE
14.085 * not found *				1		a. CHLORDANE
14.156 * not found *				1		ENDOSULFAN I
14.580	28477	VV	0.134	1	1.211	4,4'-DDE
14.900	867409	VV	0.081	1	36.480	DIELDRIN
15.784	679670	BV	0.079	1	37.875	ENDRIN
15.983	24566	VV	0.092	1	1.610	4,4'-DDD
16.250 * not found *				1		ENDOSULFAN II
16.794	676770	VV	0.087	1	44.755	4,4'-DDT
16.989	40017	VV	0.136	1	2.505	ENDRIN ALDEHYDE
17.521 * not found *				1		ENDOSULFAN SULFATE
19.392 * not found *				1		METHOXYCHLOR
20.117 * not found *				1		ENDRIN KETONE
27.561	407982	BV	0.236	1	13.885	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\023F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 23
Sample Name	: 15411.07MS	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 02:53 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 03:28 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER99MS, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

Injection C: <PESTEPA> 3 0424SAM,10,1

000845

Acquired on 24-Apr-96 at 15:46:13
Modified on 24-Apr-80 at 16:25:02
Reported on 24-Apr-96 at 16:25:23

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 16:24:58
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15411.07MS
Sample ID.....: FER99MS
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 10

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
3	4.507	862507	14.0094	TCX
12	7.138	1108200	15.0669	gamma-BHC C
14	7.618	1159106	16.6521	HEPTACHLOR C
15	8.302	1044613	17.8524	ALDRIN C
17	8.836	193798	4.7363	beta-BHC NC
22	12.409	30050	0.5896	4,4'-DDE C <
23	13.182	2184972	35.9911	DIELDRIN C
24	14.307	2005042	40.1905	ENDRIN C
26	17.489	30015	0.7045	4,4'-DDD C <
27	18.920	1632153	41.8863	4,4'-DDT C
31	26.253	15439	0.3854	ENDRIN KETONE NC
33	29.684	679098	15.1566	DCB
Total		10944993	203.2211	
Residual		1473142	27.3891	

VG Data Systems - Minichrom v1.66

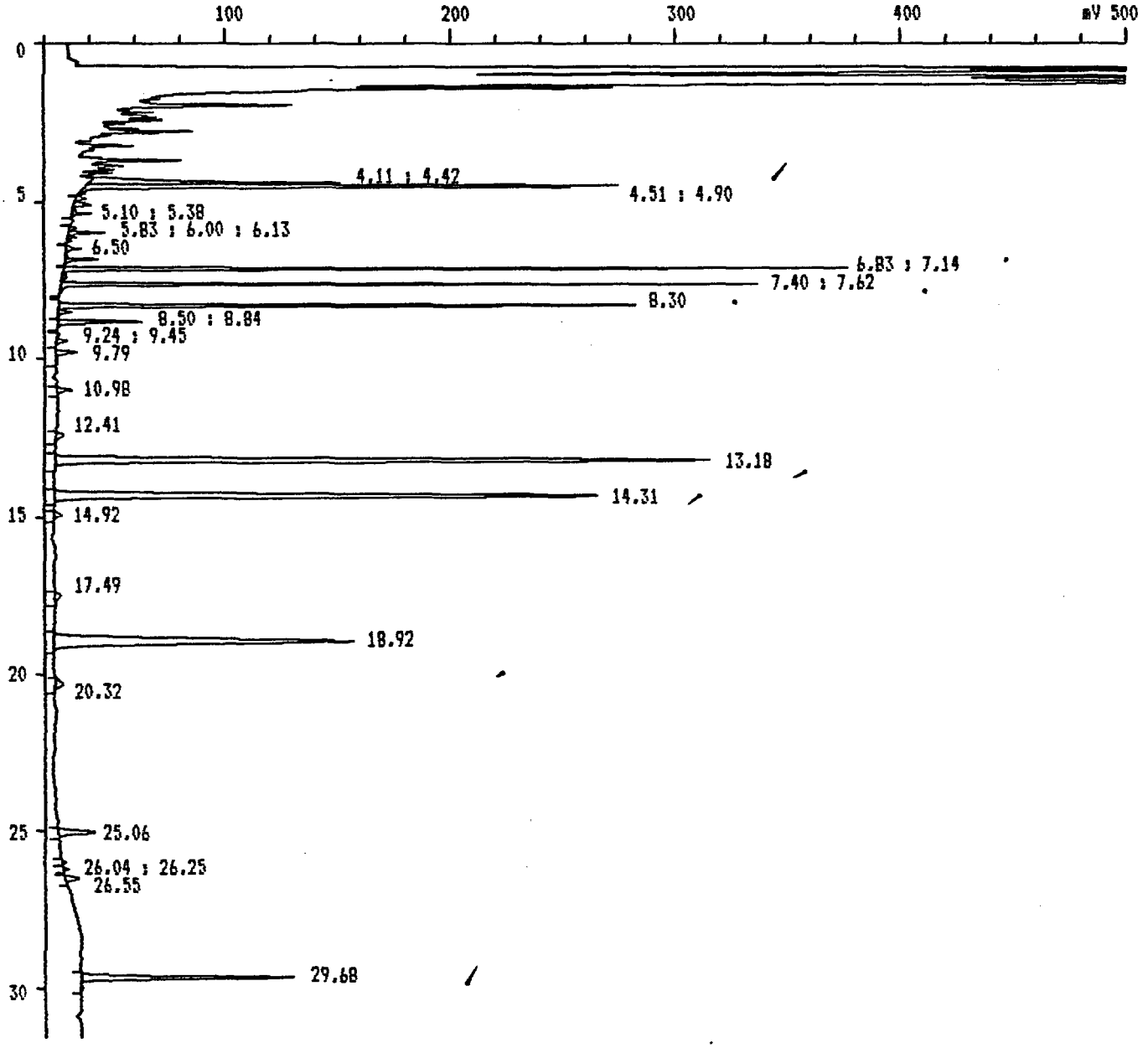
LONG PLOT

Injection C: <PESTEPA> 3 0424SAM,10,1

000846

Sample name.....: 15411.07MS
Sample ID.....: FER99MS
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 15:46:13
Reported on 29-Apr-96 at 09:06:05



1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

000847

EPA SAMPLE NO.

FER99MSD

Lab Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 24517_ SAS No.: SDG No.: FER94

Matrix: (soil/water) SOIL Lab Sample ID: 15411_08MSD

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

% Moisture: 13 decanted: (Y/N) N Date Received: 03/28/96

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/30/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/16/96

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	16	
76-44-8	Heptachlor	18	
309-00-2	Aldrin	17	
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	39	
72-55-9	4,4'-DDE	3.8	U
72-20-8	Endrin	43	
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	44	
72-43-5	Methoxychlor	20	U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

External Standard Report

000848

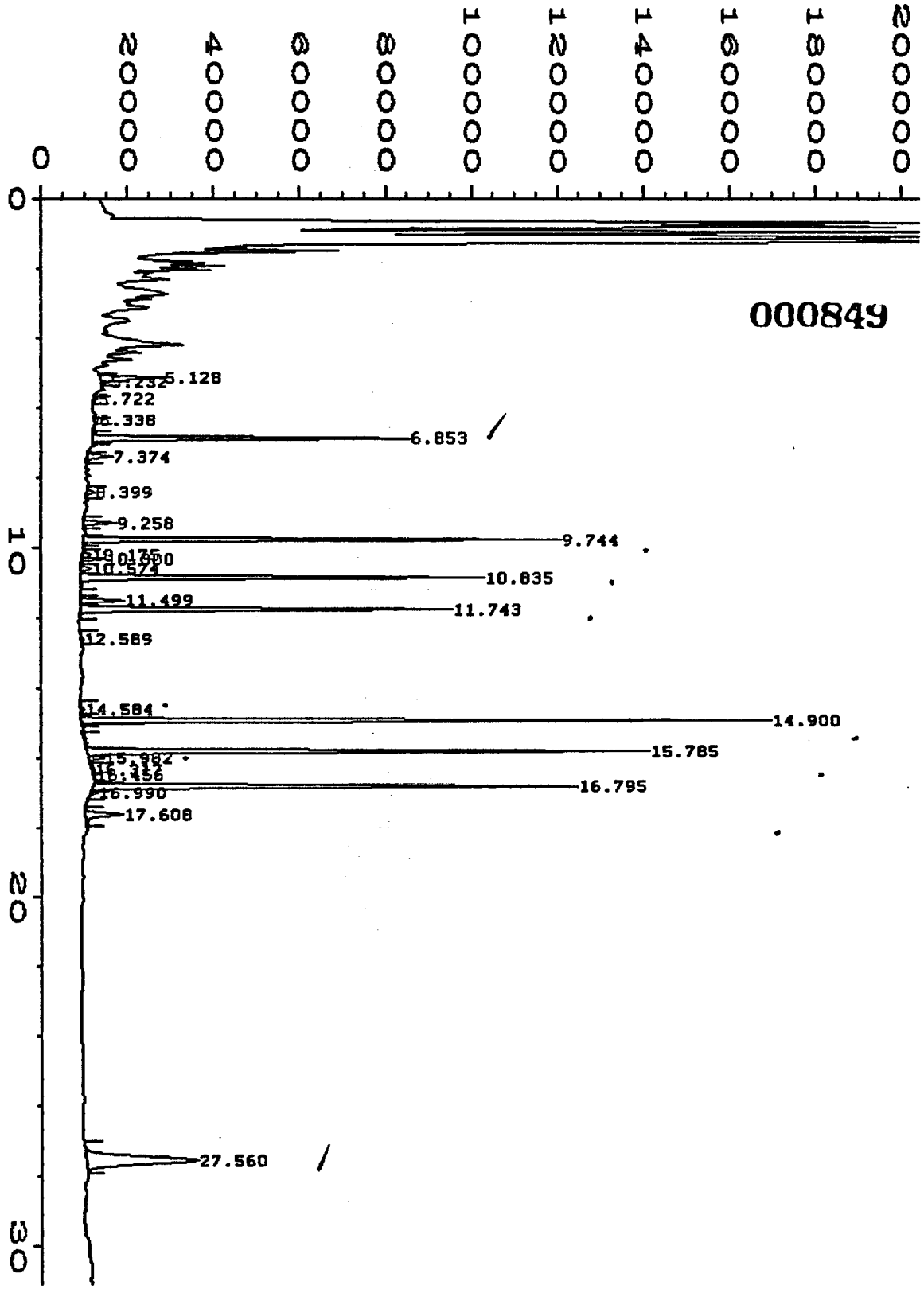
Data File Name : C:\HPCHEM\3\DATA\3041596\024F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : 15411.08MSD
Run Time Bar Code:
Acquired on : 16 Apr 96 03:28 AM
Report Created on: 16 Apr 96 08:18 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 333
Sample Info : FER99MSD, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\024F0101.D

Ret Time	Area	Type	Width	Ref#	ug/Kg	Name
6.853	335544	BV	0.071	1	10.719	TCX
8.701	* not found *			1		alpha-BHC
9.744	510808	VB	0.072	1	13.805	gamma-BHC C
9.946	* not found *			1		beta-BHC
10.835	500882	PB	0.084	1	15.467	HEPTACHLOR C
10.924	* not found *			1		delta-BHC
11.743	444586	VB	0.081	1	14.845	ALDRIN C
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.085	* not found *			1		a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.584	5753	BB	0.084	1	0.245	4,4'-DDE C<
14.900	813701	BV	0.080	1	34.221	DIELDRIN C
15.785	668804	PV	0.080	1	37.269	ENDRIN C
15.982	18911	VV	0.082	1	1.239	4,4'-DDD C
16.317	6249	VV	0.173	1	0.284	ENDOSULFAN II NC
16.795	579109	BV	0.081	1	38.297	4,4'-DDT C
16.990	8099	VB	0.079	1	0.507	ENDRIN ALDEHYDE NC
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.560	391699	BV	0.233	1	13.330	DCB

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\3\DATA\3041596\024F0101.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 24
Sample Name	: 15411.08MSD	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Apr 96 03:28 AM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 16 Apr 96 04:04 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 APR 96 08:01 AM	Sample Amount	: 0
Multiplier	: 10	ISTD Amount	:
Sample Info	: FER99MSD, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000850

Injection C: <PESTEPA> 3 0424SAM,11,1

Acquired on 24-Apr-96 at 16:47:28
Modified on 24-Apr-80 at 17:20:34
Reported on 24-Apr-96 at 17:20:56

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2F, COL TYPE: DB-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 17
Calibration file..: 0423CAL Last modified on 24-Apr-80 at 17:20:32
Method file.....: PEST2F Last modified on 24-Apr-80 at 10:25:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEWX Last modified on 23-Apr-80 at 14:37:50

SAMPLE INFORMATION

Sample name.....: 15411.08MSD
Sample ID.....: FER99MSD
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 11

User factors:
EXTRACTION FACTOR.....: 333.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/Kg	Peak name
3	4.493	749600	12.1755	TCX
13	7.120	1063881	14.4643	gamma-BHC C
14	7.604	1099841	15.8007	HEPTACHLOR C
15	8.293	973768	16.6417	ALDRIN C
21	12.396	21927	0.4302	4,4'-DDE C
22	13.173	2082285	34.2996	DIELDRIN C
23	14.298	1915637	38.3984	ENDRIN C
25	17.493	31144	0.7310	4,4'-DDD C
26	18.911	1558828	40.0046	4,4'-DDT C
30	26.240	15791	0.3942	ENDRIN KETONE NC
32	29.676	636491	14.2056	DCB
Total		10149194	187.5459	
Residual		1235715	22.5251	

VG Data Systems - Minichrom v1.66

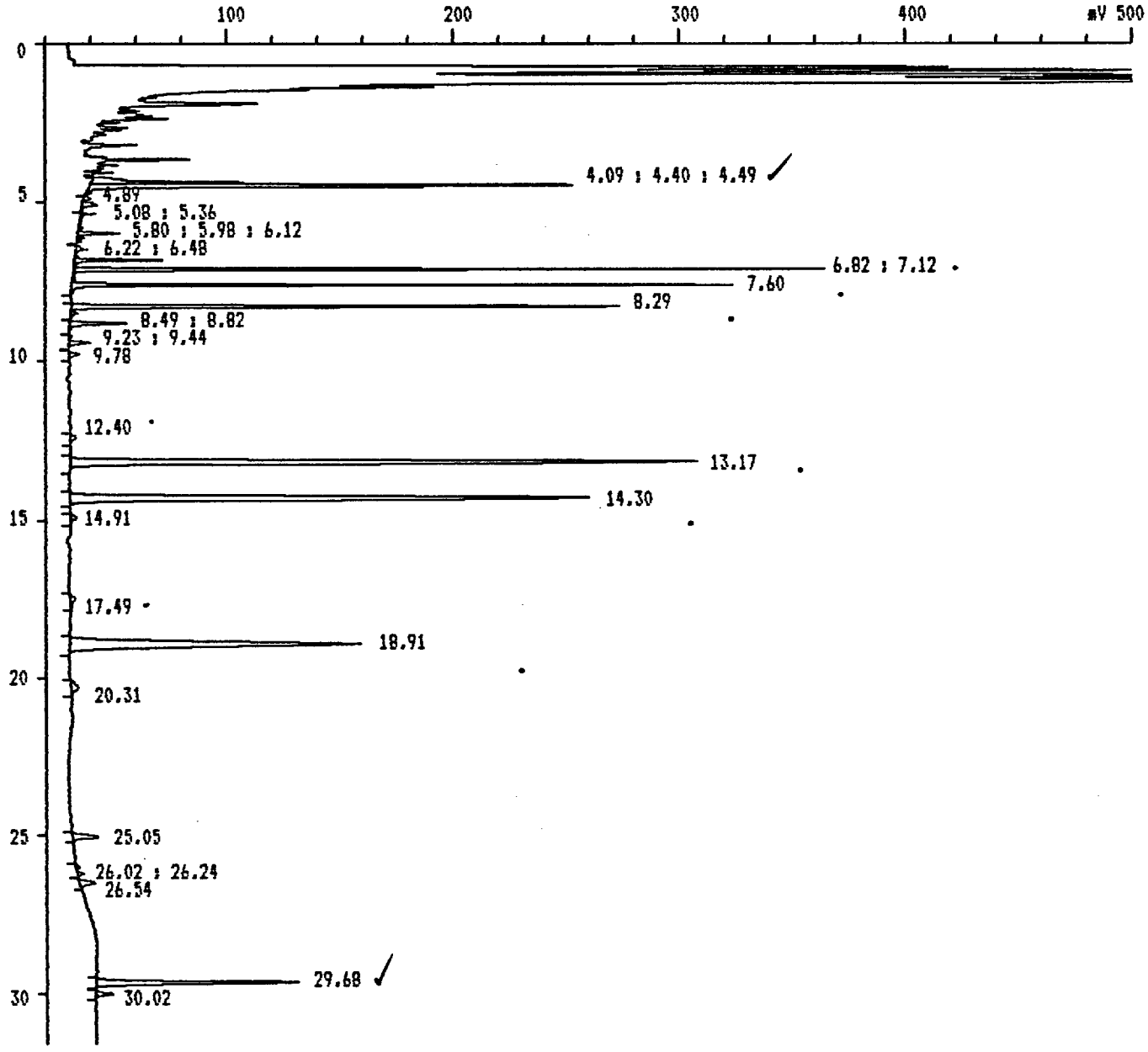
LONG PLOT

000851

Injection C: <PESTEPA> 3 0424SAM,11,1

Sample name.....: 15411.08MSD
Sample ID.....: FER99MSD
INST: HP2F, COL:DB-1701, 0.53mmID, 2 ul INJ

Acquired on 24-Apr-96 at 16:47:28
Reported on 29-Apr-96 at 09:08:02

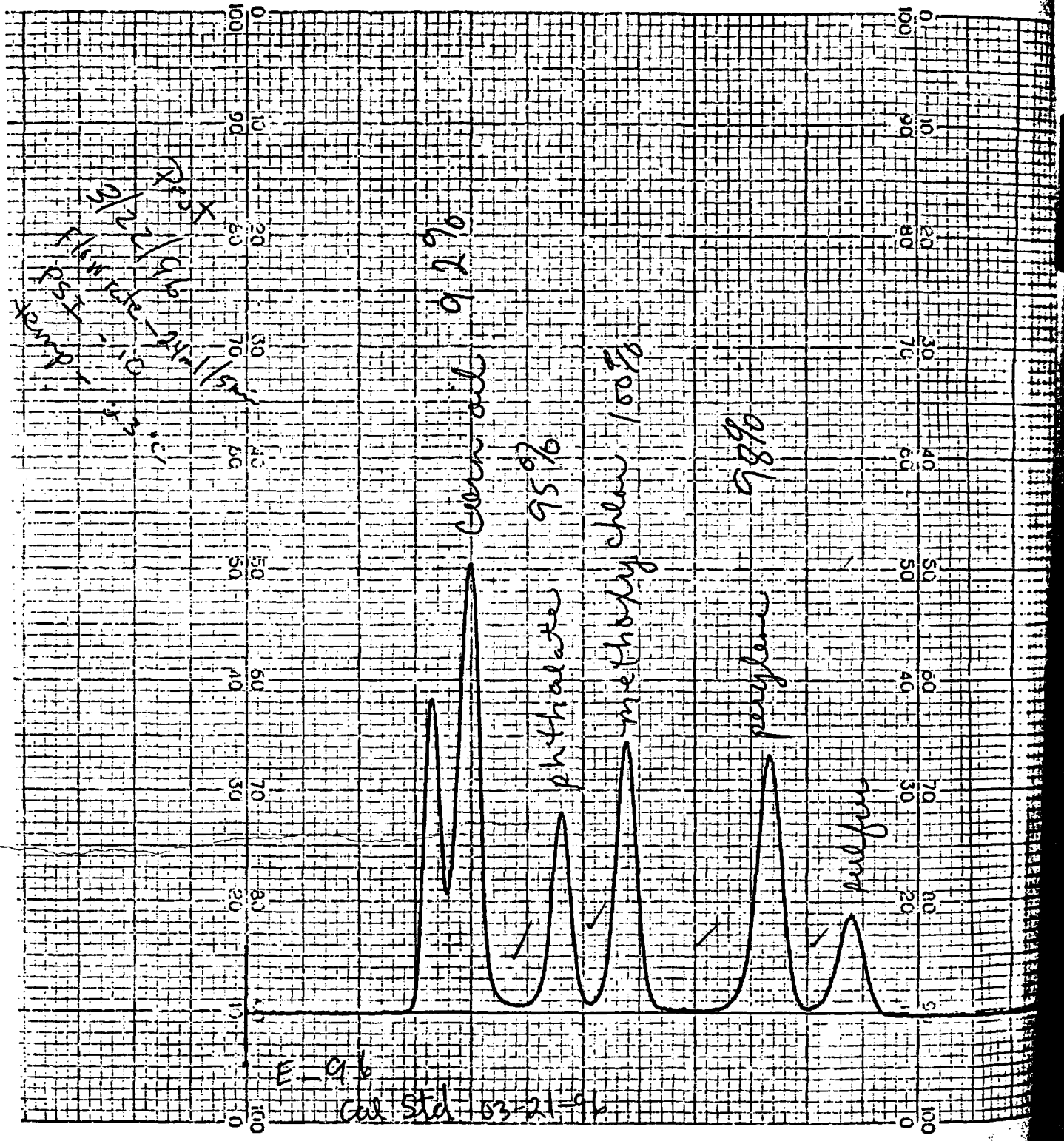


All calibrations are copies
Originals retained at
AATS
Pages 1 of 1/96

000852

CHART

CHART NO. KZ XR-9



000853

GPC BIK #1

Test Eff
4/13/96
Flowrate - 24ml/5m
PSI - 9
temp - 23°C

000855

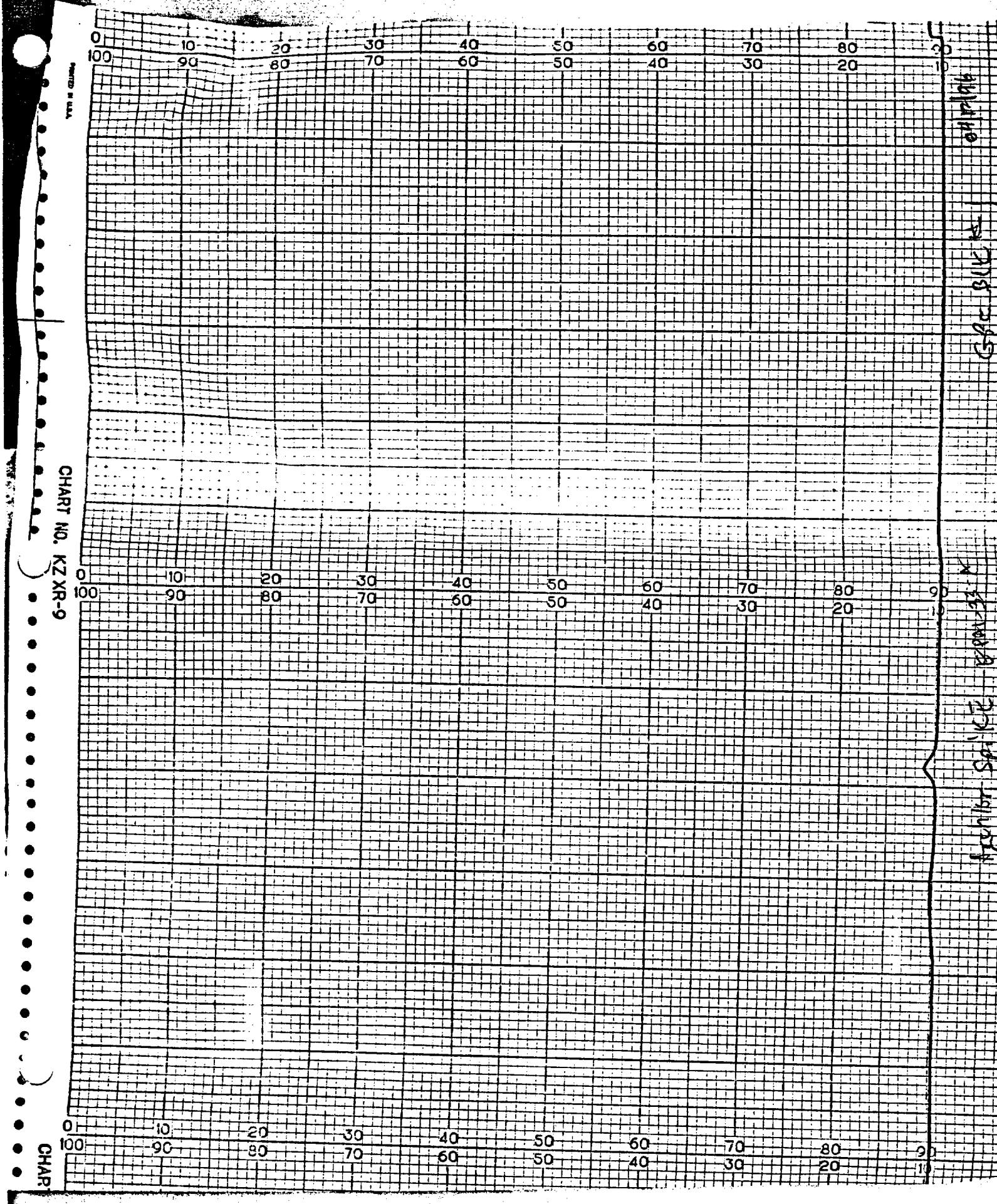


CHART NO. KZ XR-9
0 10 20 30 40 50 60 70 80 90
100 90 80 70 60 50 40 30 20 10

CHART NO. KZ XR-9

CHART NO. KZ X

Pest/EPA
4/12/96
Flowrate - 2 ml/m
PSI-9
Temp 22°C

Pest SPIKE
(FAILED)

000854

External Standard Report

000856

Data File Name : C:\HPCHEM\3\DATA\3041596\025F0101.D
Operator : DLP
Instrument : HP3F
Sample Name : GPC BLK 041396
Run Time Bar Code:
Acquired on : 16 Apr 96 04:04 AM
Report Created on: 16 Apr 96 04:39 AM
Last Recalib on : 15 APR 96 08:01 AM
Multiplier : 10
Sample Info : , HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 1
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041596\025F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
6.870	* not found *			1		TCX
8.701	* not found *			1		alpha-BHC
9.763	* not found *			1		gamma-BHC
9.946	* not found *			1		beta-BHC
10.854	* not found *			1		HEPTACHLOR
10.924	* not found *			1		delta-BHC
11.760	* not found *			1		ALDRIN
13.187	* not found *			1		HEPT. EPOXIDE
13.690	* not found *			1		g. CHLORDANE
14.099	33065	PV	0.227	1	0.0323	a. CHLORDANE
14.156	* not found *			1		ENDOSULFAN I
14.603	* not found *			1		4,4'-DDE
14.922	* not found *			1		DIELDRIN
15.807	* not found *			1		ENDRIN
15.993	* not found *			1		4,4'-DDD
16.312	56139	PV	0.096	1	0.0766	ENDOSULFAN II
16.758	20837	VV	0.174	1	0.0414	4,4'-DDT
17.002	18229	VV	0.147	1	0.0343	ENDRIN ALDEHYDE
17.521	* not found *			1		ENDOSULFAN SULFATE
19.392	* not found *			1		METHOXYCHLOR
20.117	* not found *			1		ENDRIN KETONE
27.631	* not found *			1		DCB

Not all calibrated peaks were found

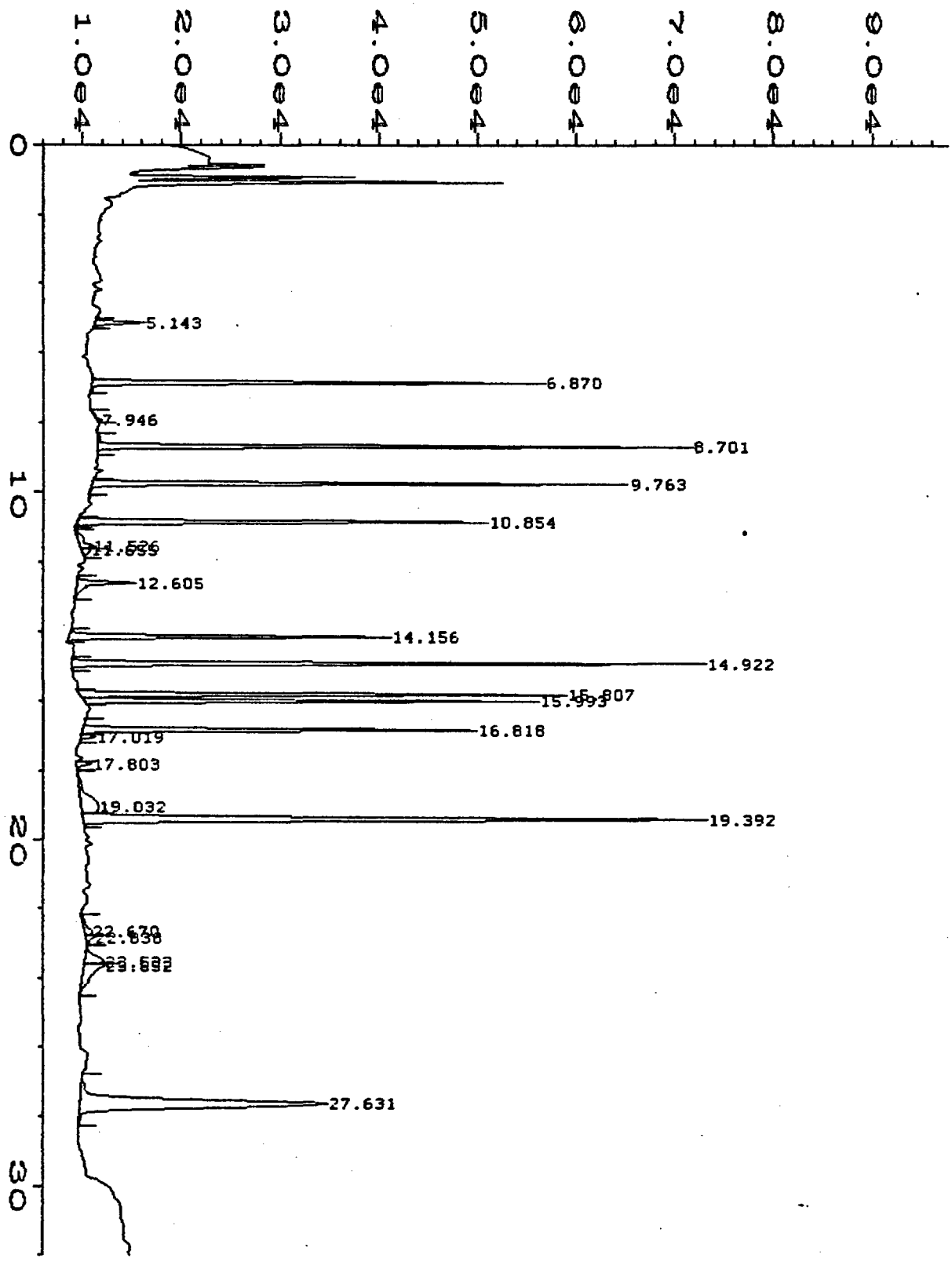
External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3041496\018F1301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A IF
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~10:12 PM~~ 2212 for 4/15/96
Report Created on: 15 Apr 96 12:12 PM
Last Recalib on : 15 Apr 96 12:12 PM
Multiplier : 1
Sample Info : INDAMIF , HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 13
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDA3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\018F1301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.870	208478	BB	0.070	1	0.0400	TCX
8.701	267779	BB	0.070	1	0.0400	alpha-BHC
9.763	246438	BB	0.071	1	0.0400	gamma-BHC
10.854	215678	BB	0.081	1	0.0400	HEPTACHLOR
14.156	169879	BV	0.081	1	0.0400	ENDOSULFAN I
14.922	316718	BB	0.077	1	0.0800	DIELDRIN
15.807	239031	PV	0.076	1	0.0800	ENDRIN
15.993	203297	VV	0.069	1	0.0800	4,4'-DDD
16.818	201421	BV	0.079	1	0.0800	4,4'-DDT
19.392	472876	VV	0.117	1	0.400	METHOXYCHLOR
27.631	391391	BB	0.239	1	0.0800	DCB



Data File Name : C:\HPCHEM\3\DATA\3041496\018F1301.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-12-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~10:12~~ PM
Report Created on: 15 Apr 96 07:56 AM
Last Recalib on : 15 Apr 96 07:53 AM
Multiplier : 1

Ind Am 1F, RTX-35, 30m 0.53mm ID
HP3F
2212
4/15/96
2nd run

Page Number : 1
Vial Number : 18
Injection Number : 1
Sequence Line : 13
Instrument Method: EPAMTH_F.MTH
Analysis Method : EPAMTH_F.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

000860

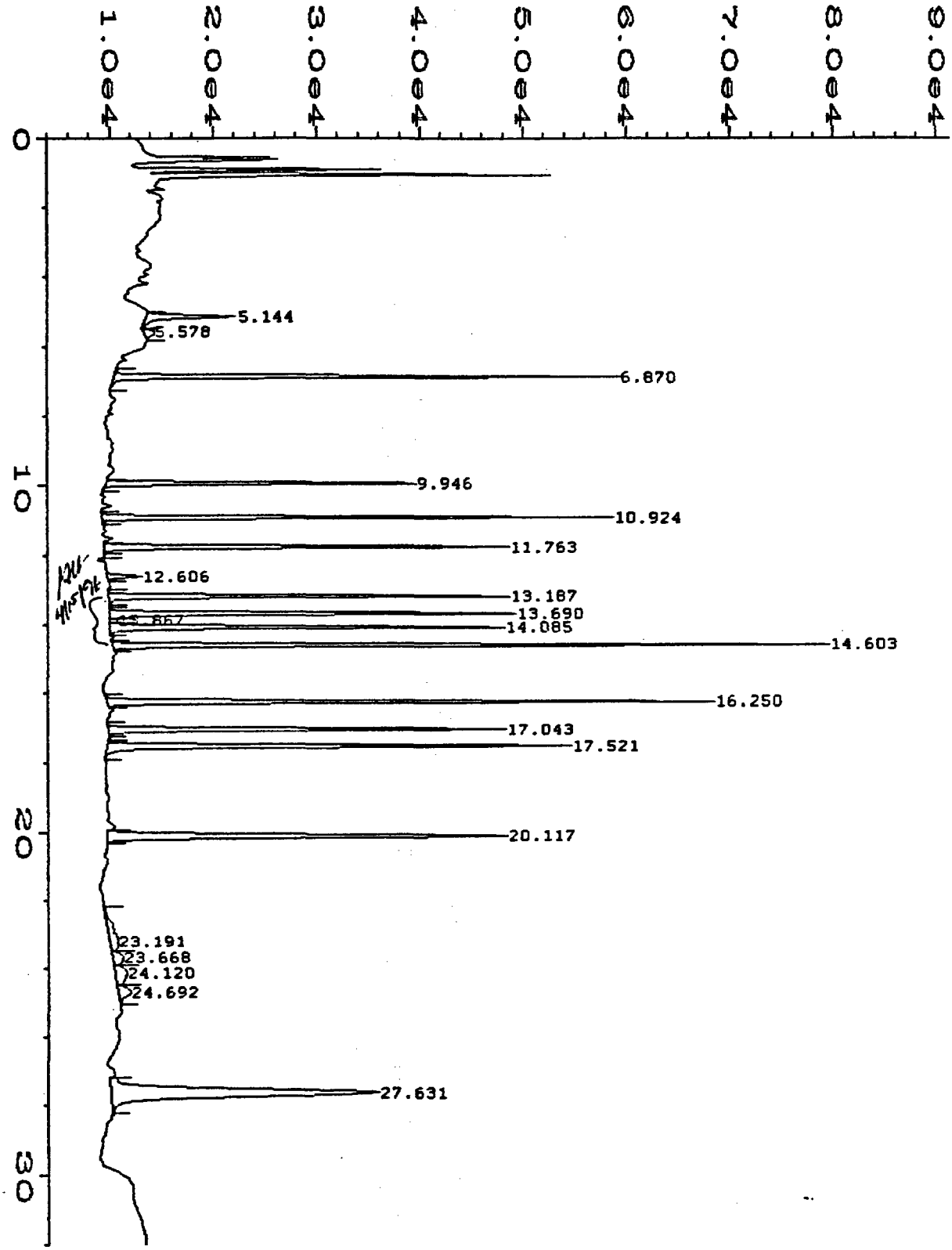
Data File Name : C:\HPCHEM\3\DATA\3041496\020F1401.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-16-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~11:25~~ PM
Report Created on: 15 Apr 96 02:41 PM
Last Recalib on : 15 Apr 96 02:40 PM
Multiplier : 1

Page Number : 1
Vial Number : 20
Injection Number : 1
Sequence Line : 14
Instrument Method: EPAMTH_F.MTH
Analysis Method : INDB3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\020F1401.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.870	217924	BB	0.070	1	0.0400	TCX
9.946	135831	BB	0.070	1	0.0400	beta-BHC
10.924	207169	BB	0.066	1	0.0400	delta-BHC
11.763	198803	BB	0.079	1	0.0400	ALDRIN
13.187	196599	BB	0.079	1	0.0400	HEPT. EPOXIDE
13.690	206009	MF	0.087	1	0.0400	g. CHLORDANE
14.085	204632	FM	0.089	1	0.0400	a. CHLORDANE
14.603	315644	FB	0.072	1	0.0800	4,4'-DDE
16.250	293530	BB	0.078	1	0.0800	ENDOSULFAN II
17.043	213149	BB	0.087	1	0.0800	ENDRIN ALDEHYDE
17.521	268904	BB	0.093	1	0.0800	ENDO. SULFATE
20.117	295998	BB	0.120	1	0.0800	ENDRIN KETONE
27.631	420943	VB	0.245	1	0.0800	DCB

User Modified



Data File Name	: C:\HPCHEM\3\DATA\3041496\020F1401.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 20
Sample Name	: EPA1-16-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 14
Acquired on	: 14 Apr 96 ~~11:25~~ PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 07:51 AM	Analysis Method	: EPAMTH_F.MTH
Last Recalib on	: 15 Apr 96 07:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

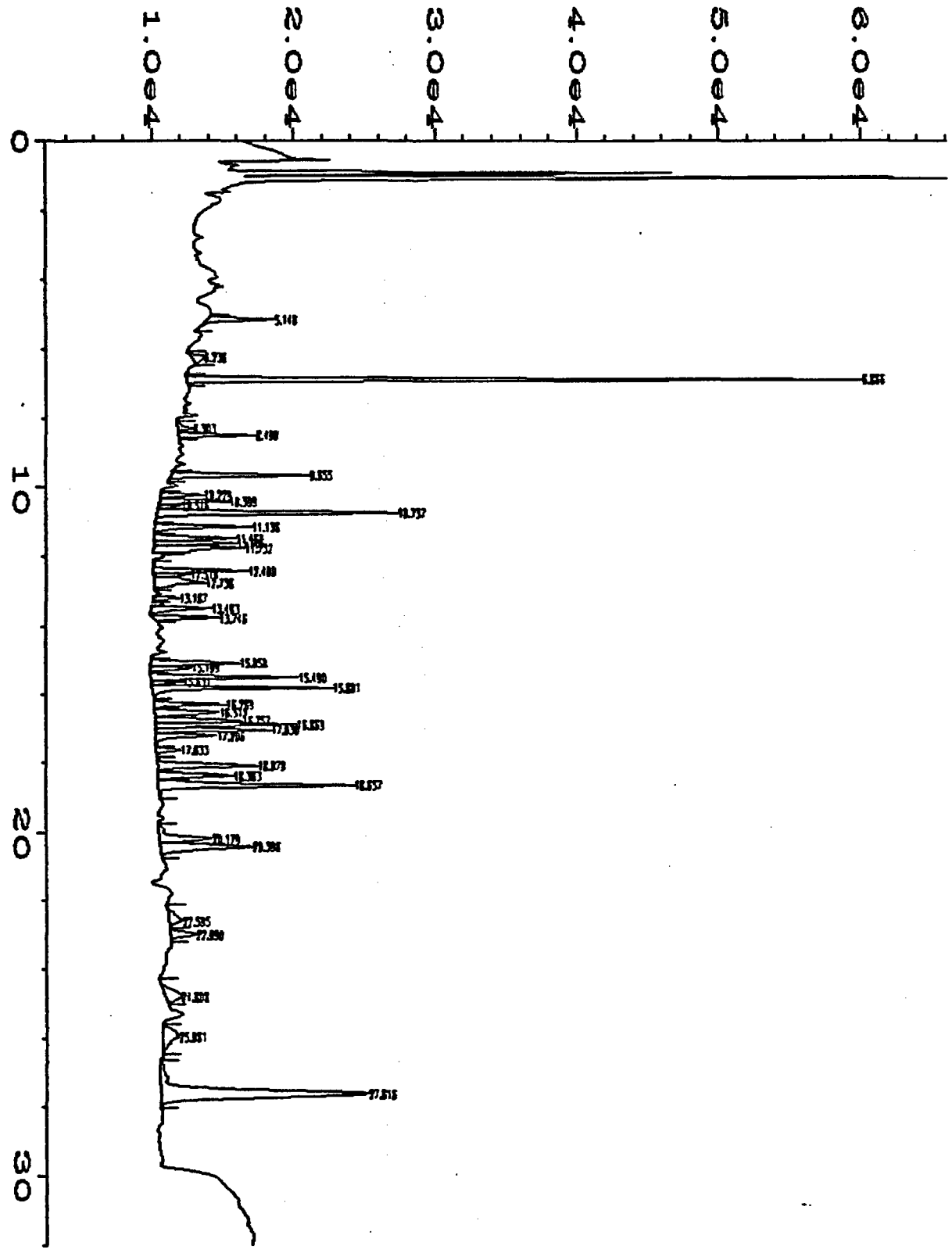
000862

Data File Name : C:\HPCHEM\3\DATA\3041496\006F0401.D
Operator : DLP
Instrument : HP3 F
Sample Name : EPA1-20-A/F
Run Time Bar Code:
Acquired on : 14 Apr 96 02:55 PM
Report Created on: 15 Apr 96 04:25 PM
Last Recalib on : 15 Apr 96 04:25 PM
Multiplier : 1
Sample Info : AR1660/F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 4
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR60-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\006F0401.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.866	214715	BB	0.071	1	0.0400	TCX
9.655	53250	BB	0.086	1	0.200	AROCLOR-1016
10.737	108437	VB	0.102	1	0.200	AROCLOR-1016-2
11.136	38850	BV	0.085	1	0.200	AROCLOR-1016-3
11.468	33923	VV	0.086	1	0.200	AROCLOR-1016-4
11.605	32063	VV	0.081	1	0.200	AROCLOR-1016-5
15.490	56515	PV	0.083	1	0.200	AROCLOR-1260
15.801	68559	VB	0.083	1	0.200	AROCLOR-1260-2
16.869	57758	VV	0.087	1	0.200	AROCLOR-1260-3
18.079	49038	BV	0.107	1	0.200	AROCLOR-1260-4
18.657	105430	VB	0.115	1	0.200	AROCLOR-1260-5
27.616	234328	BV	0.244	1	0.0400	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\006F0401.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 6
Sample Name	: EPA1-20-A	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 4
Acquired on	: 14 Apr 96 02:55 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:25 PM	Analysis Method	: AR60-3F.MTH
Last Recalib on	: 15 Apr 96 04:25 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1660\F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

14 JRR 4/15/96

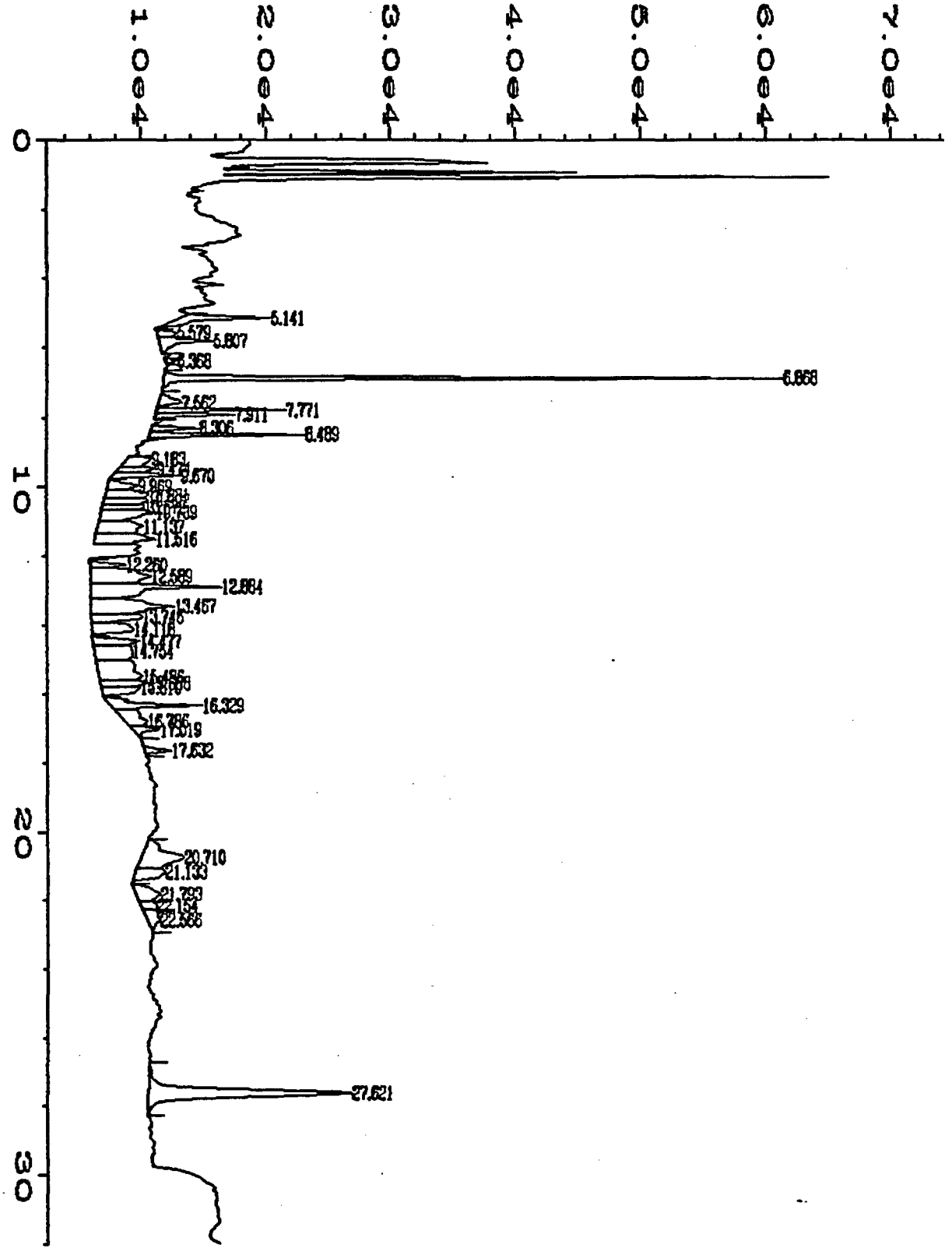
External Standard Report

Data File Name : C:\HPCHEM\3\DATA\3041496\007F0501.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-22-A|F
Run Time Bar Code:
Acquired on : 14 Apr 96 03:32 PM
Report Created on: 15 Apr 96 04:26 PM
Last Recalib on : 15 Apr 96 04:26 PM
Multiplier : 1
Sample Info : AR1221 IF, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number 000864
Vial Number : 7
Injection Number : 1
Sequence Line : 5
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR21-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\007F0501.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	236499	BB	0.073	1	0.0400	TCX
7.911	32251	VV	0.078	1	0.400	AROCLOR-1221
8.306	17983	VV	0.073	1	0.400	AROCLOR-1221-2
8.489	56456	VV	0.072	1	0.400	AROCLOR-1221-3
27.621	263364	BV	0.251	1	0.0400	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\007F0501.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 7
Sample Name	: EPA1-22-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 5
Acquired on	: 14 Apr 96 05:32 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:26 PM	Analysis Method	: AR21-3F.MTH
Last Recalib on	: 15 Apr 96 04:26 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1221 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

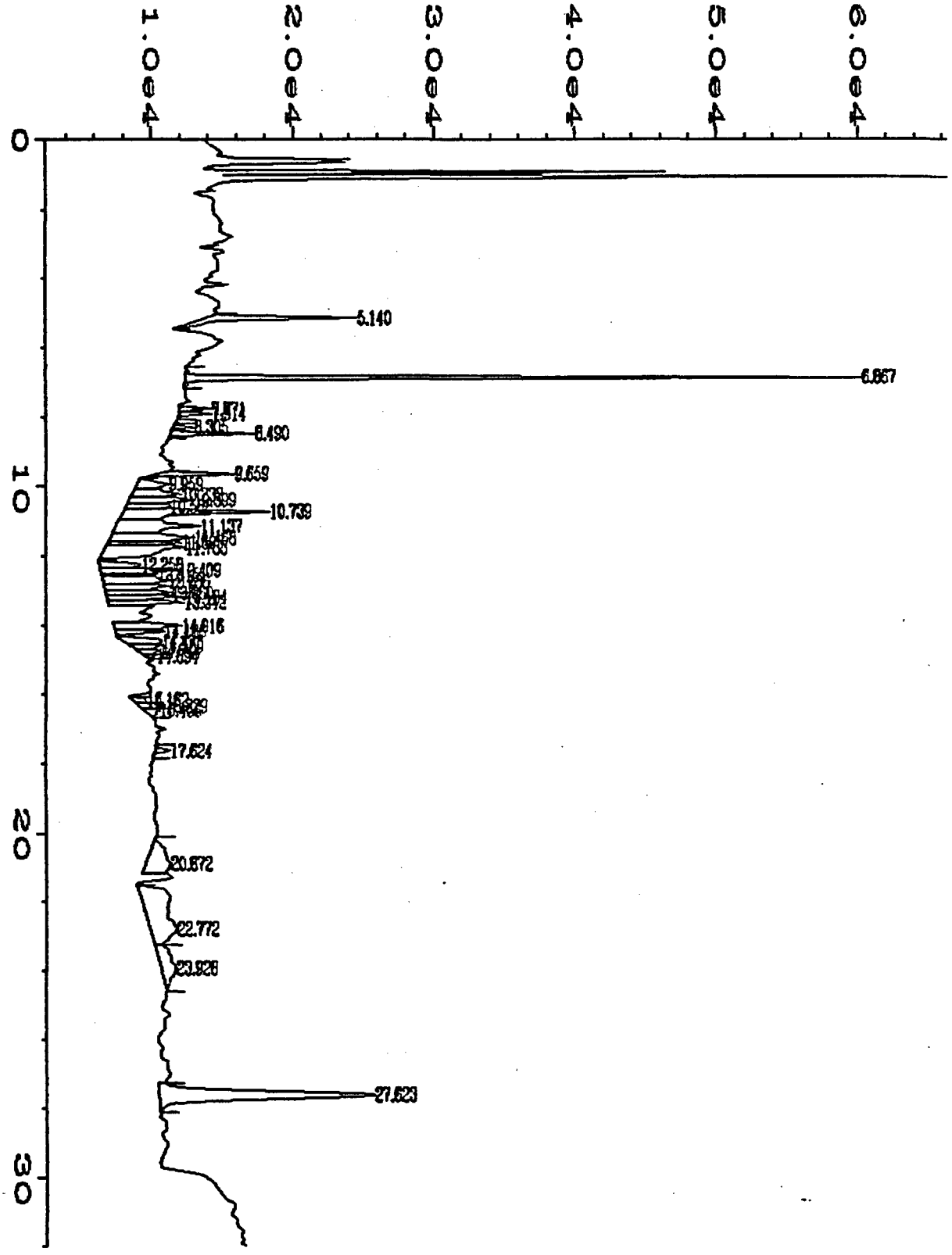
External Standard Report

000866

Data File Name	: C:\HPCHEM\3\DATA\3041496\008F0601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 8
Sample Name	: EPA1-24-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 6
Acquired on	: 14 Apr 96 04:08 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:27 PM	Analysis Method	: AR32-3F.MTH
Last Recalib on	: 15 Apr 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1232 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

Sig. 1 in C:\HPCHEM\3\DATA\3041496\008F0601.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	221815	BB	0.072	1	0.0400	TCX
8.490	26818	PV	0.071	1	0.200	AROCLOR-1232
9.659	31456	BV	0.090	1	0.200	AROCLOR-1232-2
10.739	103045	VV	0.143	1	0.200	AROCLOR-1232-3
11.137	89053	VV	0.191	1	0.200	AROCLOR-1232-4
11.468	62568	VV	0.141	1	0.200	AROCLOR-1232-5
27.623	236699	VV	0.241	1	0.0400	DCB



Data File Name	: C:\HPCHEM\3\DATA\3041496\008F0601.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 8
Sample Name	: EPA1-24-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 6
Acquired on	: 14 Apr 96 04:08 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:27 PM	Analysis Method	: AR32-3F.MTH
Last Recalib on	: 15 Apr 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1232 1F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

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4/15/96

External Standard Report

000868

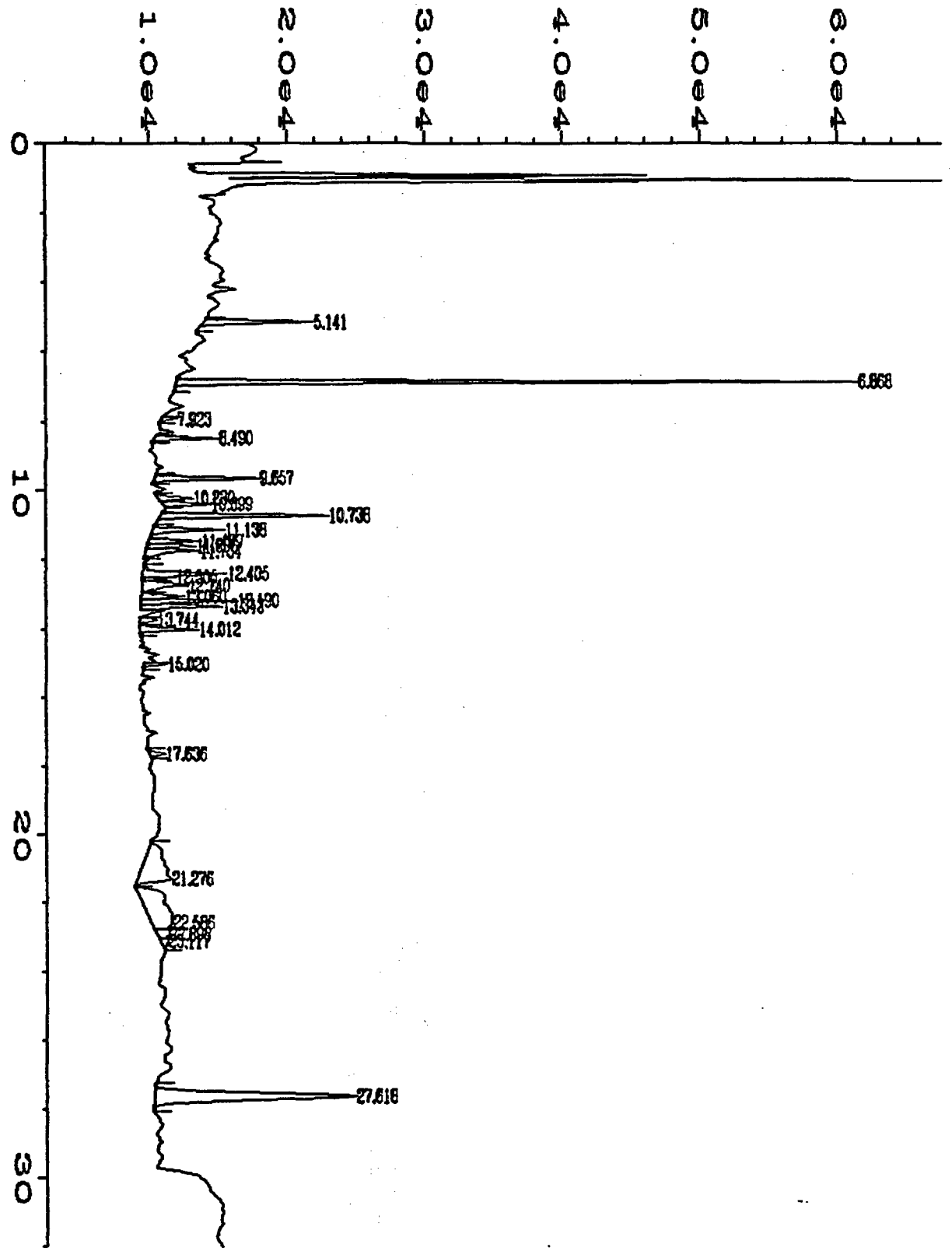
Data File Name : C:\HPCHEM\3\DATA\3041496\009F0701.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-26-A 1F
Run Time Bar Code:
Acquired on : 14 Apr 96 04:44 PM
Report Created on: 15 Apr 96 04:27 PM
Last Recalib on : 15 Apr 96 04:27 PM
Multiplier : 1
Sample Info : AR1242 1F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 7
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR42-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\009F0701.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	223180	PB	0.070	1	0.0400	TCX
8.490	21857	VV	0.073	1	0.200	AROCLOR-1242
9.657	41614	BB	0.086	1	0.200	AROCLOR-1242-2
10.738	73452	BB	0.098	1	0.200	AROCLOR-1242-3
12.405	37637	BV	0.093	1	0.200	AROCLOR-1242-4
13.190	36442	VV	0.080	1	0.200	AROCLOR-1242-5
27.618	212347	BV	0.226	1	0.0400	DCB

000869



Data File Name	: C:\HPCHEM\3\DATA\3041496\009F0701.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 9
Sample Name	: EPA1-26-A1F	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 7
Acquired on	: 14 Apr 96 04:44 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:27 PM	Analysis Method	: AR42-3F.MTH
Last Recalib on	: 15 Apr 96 04:27 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1242 1F, HP3F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

MT 4/15/96

External Standard Report

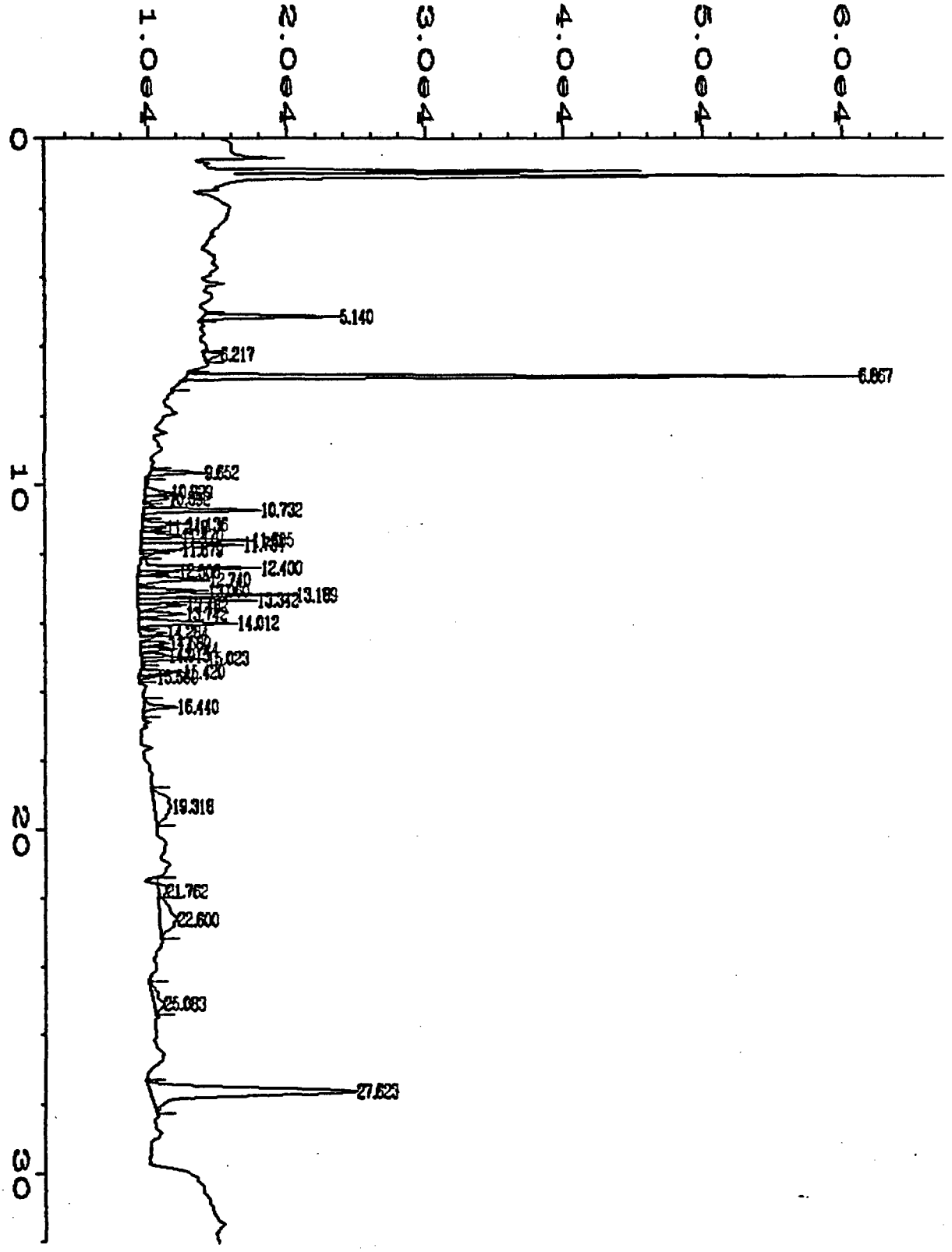
Data File Name : C:\HPCHEM\3\DATA\3041496\010F0801.D 000870
Operator : DLP
Instrument : HP3 F
Sample Name : EPA1-28-A 1F
Run Time Bar Code:
Acquired on : 14 Apr 96 05:21 PM
Report Created on: 15 Apr 96 04:28 PM
Last Recalib on : 15 Apr 96 04:28 PM
Multiplier : 1
Sample Info : AR1248 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

17 for 4/15/96

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 8
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR48-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\010F0801.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	218067	BB	0.070	1	0.0400	TCX
11.605	43843	VV	0.083	1	0.200	AROCLOR-1248
12.400	51928	VV	0.088	1	0.200	AROCLOR-1248-2
13.189	57417	VV	0.078	1	0.200	AROCLOR-1248-3
13.342	43790	VV	0.078	1	0.200	AROCLOR-1248-4
14.012	45453	VV	0.094	1	0.200	AROCLOR-1248-5
27.623	233325	BV	0.244	1	0.0400	DCB



Data File Name : C:\HPCHEM\3\DATA\3041496\010F0801.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-28-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 ~~05~~ 17:21 PM
Report Created on: 15 Apr 96 04:28 PM
Last Recalib on : 15 Apr 96 04:28 PM
Multiplier : 1
Sample Info : AR1248 1F , HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 8
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR48-3F.MTH
Sample Amount : 0
ISTD Amount :

BR 4/15/96

External Standard Report

000872

Data File Name : C:\HPCHEM\3\DATA\3041496\011F0901.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-30-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 05:57 PM
Report Created on: 15 Apr 96 04:29 PM
Last Recalib on : 15 Apr 96 04:29 PM
Multiplier : 1
Sample Info : AR1254 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

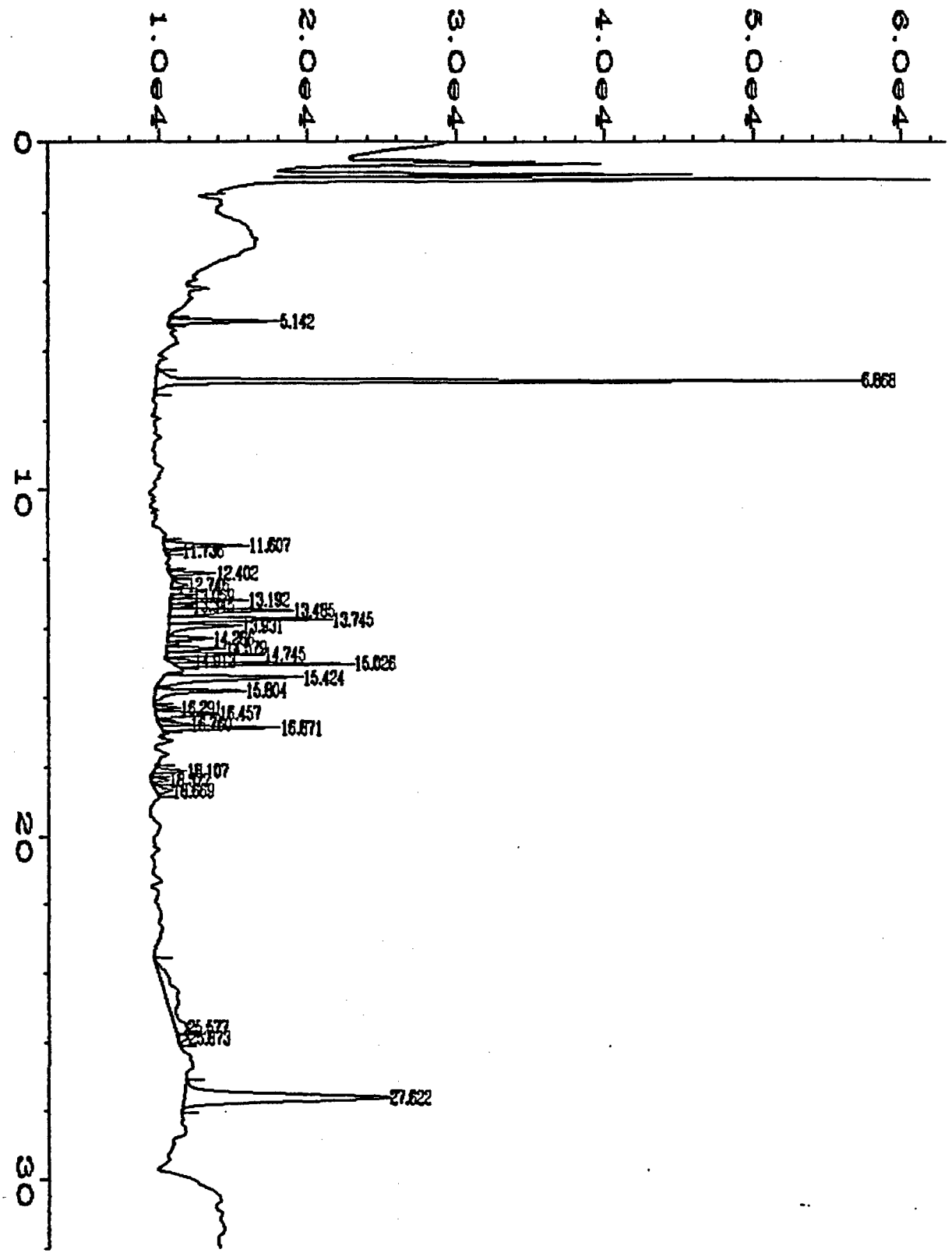
17 4/15/96

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 9
Instrument Method: EPAMTH_F.MTH
Analysis Method : AR54-3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\011F0901.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.868	232708	BB	0.075	1	0.0400	TCX
13.745	65780	VV	0.090	1	0.200	AROCLOR-1254
15.026	59643	VB	0.077	1	0.200	AROCLOR-1254-2
15.424	78449	PV	0.114	1	0.200	AROCLOR-1254-3
15.804	38904	PB	0.094	1	0.200	AROCLOR-1254-4
16.871	40864	VV	0.080	1	0.200	AROCLOR-1254-5
27.622	214335	BV	0.241	1	0.0400	DCB

000873



Data File Name	: C:\HPCHEM\3\DATA\3041496\011F0901.D		
Operator	: DLP	Page Number	: 1
Instrument	: HP3F	Vial Number	: 11
Sample Name	: EPA1-30-A1F JBR 4/15/96	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 14 Apr 96 05:57 PM	Instrument Method	: EPAMTH_F.MTH
Report Created on	: 15 Apr 96 04:29 PM	Analysis Method	: AR54-3F.MTH
Last Recalib on	: 15 Apr 96 04:29 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: AR1254 1F, HP3 , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M		

External Standard Report

000874

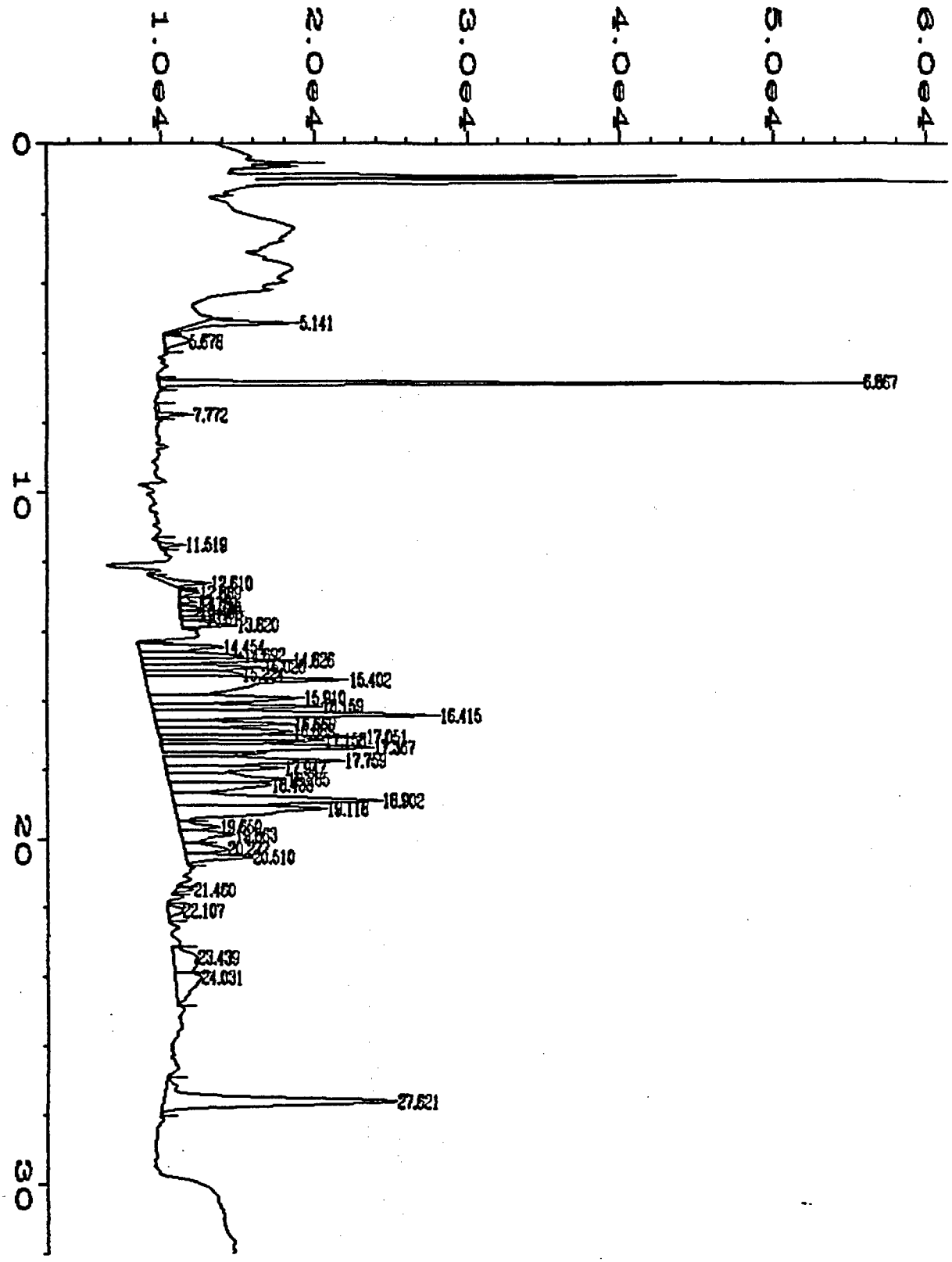
Data File Name : C:\HPCHEM\3\DATA\3041496\012F1001.D
Operator : DLP
Instrument : HP3F
Sample Name : EPA1-32-A1F
Run Time Bar Code:
Acquired on : 14 Apr 96 06:34 PM
Report Created on: 15 Apr 96 04:29 PM
Last Recalib on : 15 Apr 96 04:29 PM
Multiplier : 1
Sample Info : TOXAPH1F, HP3F , COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 10
Instrument Method: EPAMTH_F.MTH
Analysis Method : TOX3F.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\3\DATA\3041496\012F1001.D

Ret Time	Area	Type	Width	Ref#	ng	Name
6.867	204923	BV	0.070	1	0.0400	TCX
16.415	191006	VV	0.145	1	1.000	TOXAPHENE
17.051	96321	VV	0.104	1	1.000	TOXAPHENE-2
17.367	148053	VV	0.165	1	1.000	TOXAPHENE-3
18.902	174907	VV	0.175	1	1.000	TOXAPHENE-4
19.118	145614	VV	0.200	1	1.000	TOXAPHENE-5
27.621	247567	VV	0.249	1	0.0400	DCB

000875



Data File Name : C:\HPCHEM\3\DATA\3041496\012F1001.D
Operator : DLP
Instrument : HP3 F
Sample Name : EPA1-32-A 1F
Run Time Bar Code:
Acquired on : 14 Apr 96 06:34 PM
Report Created on: 15 Apr 96 04:30 PM
Last Recalib on : 15 Apr 96 04:29 PM
Multiplier : 1
Sample Info : TOXAPH 1F, HP3 F, COLUMN: RTX-35, 0.53mm ID, 2 ul INJ, 30 M

Page Number : 1
Vial Number : 12
Injection Number : 1
Sequence Line : 10
Instrument Method: EPAMTH_F.MTH
Analysis Method : TOX3F.MTH
Sample Amount : 0
ISTD Amount :

18

4/15/96

VG Data Systems - Minichrom v1.66

INJECTION REPORT

000876

Injection C: <PESTEPA> 4 0412SAM,1,1

Acquired on 12-Apr-96 at 11:30:38
Modified on 12-Apr-80 at 12:08:26
Reported on 12-Apr-96 at 12:08:42

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: CP-SIL 19 CB: 0.53mm, INJ: 2ul
Number of samples.: 19
Calibration file..: 0411CAL Last modified on 12-Apr-80 at 12:08:24
Method file.....: PEST2R Last modified on 12-Apr-80 at 07:16:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEW Last modified on 11-Apr-80 at 10:00:22

SAMPLE INFORMATION

Sample name.....: GPC 041296
Sample ID.....: PEST
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 1

User factors:
EXTRACTION FACTOR.....: 10.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
4	8.293	712710	0.4353	gamma-BHC
5	8.947	772234	0.4228	HEPTACHLOR
6	9.809	651679	0.4154	ALDRIN
7	10.440	10829	9.8761E-003	beta-BHC
8	15.111	24717	0.0213	4,4'-DDE
9	16.213	1189687	0.9263	DIELDRIN
10	17.724	930102	0.8380	ENDRIN
11	21.613	14280	0.0178	4,4'-DDD
12	23.271	673017	0.8742	4,4'-DDT
13	28.209	48030	0.0555	ENDRIN KETONE
Total		5027286	4.0164	
Residual		68552	0.0000	

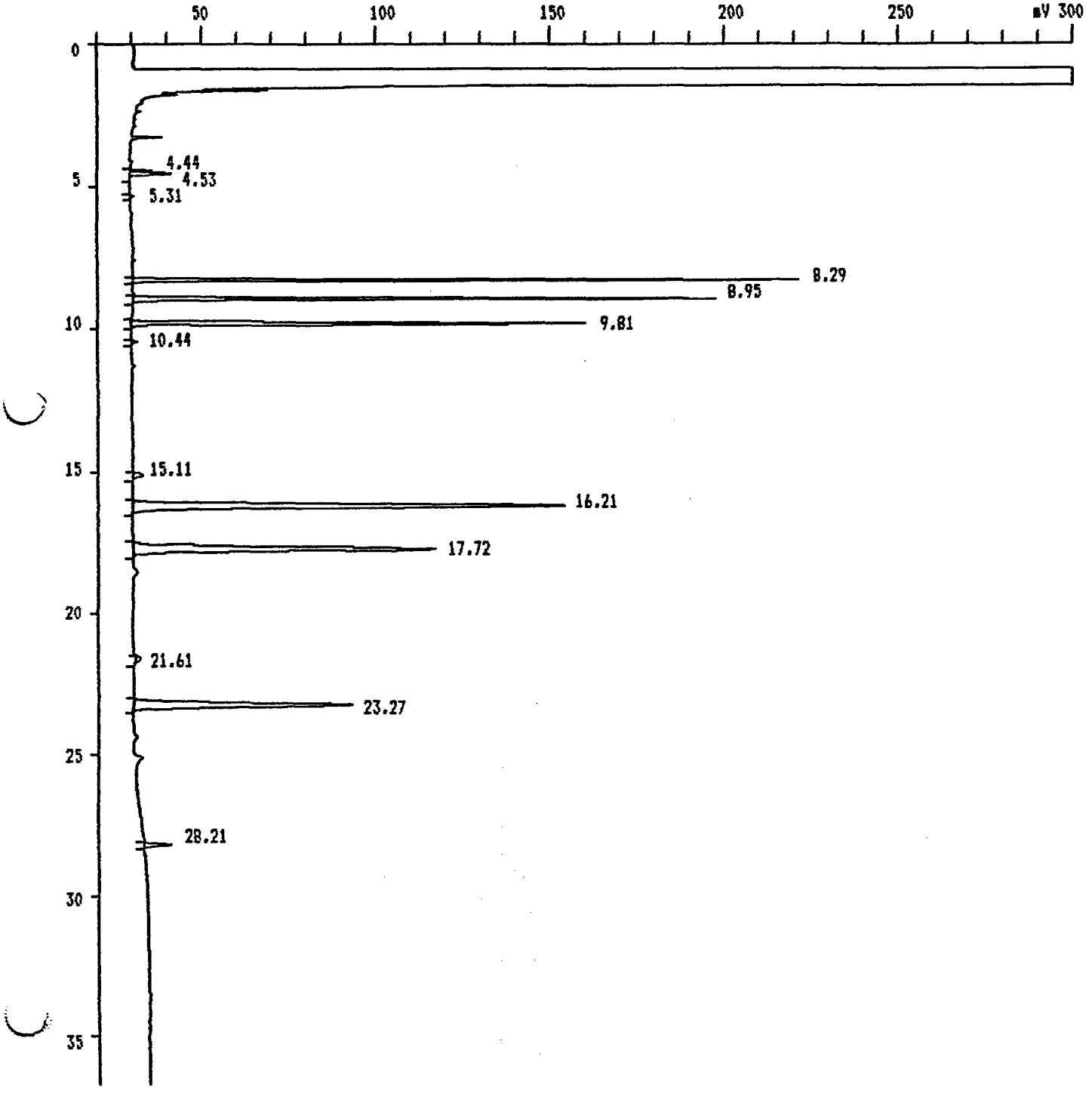
VG Data Systems - Minichrom v1.66

LONG PLOT

Injection C: <PESTEPA> 4 0412SAM,1,1

000877

Sample name.....: GPC 041296
Sample ID.....: PEST
INST: HP2R, COL: ~~RTX-1701,~~ 0.53mm ID, 2ul INJ
CP-SIL19 CB for 4/30/96
Acquired on 12-Apr-96 at 11:30:38
Reported on 15-Apr-96 at 11:53:18



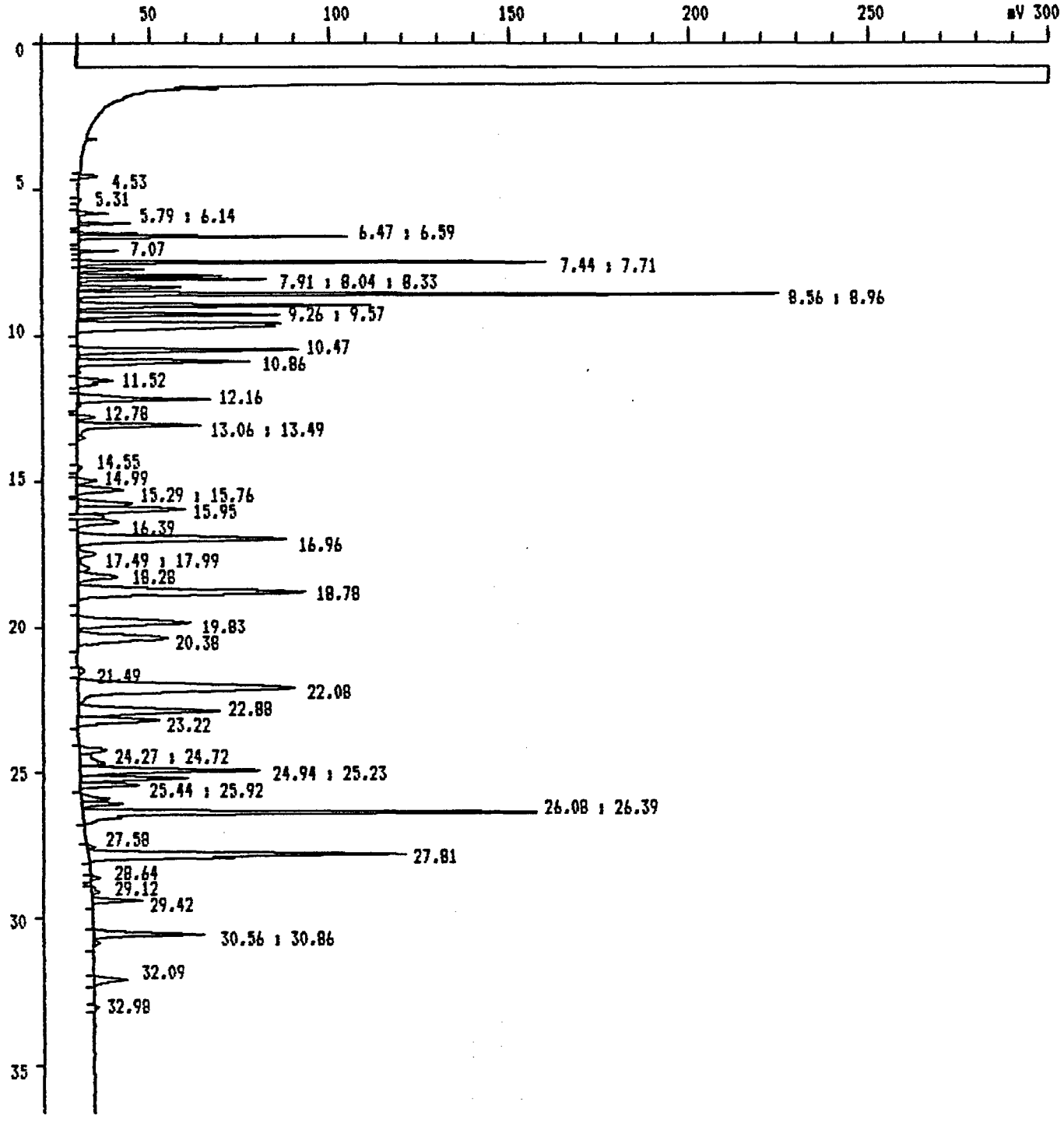
VG Data Systems - Minichrom v1.66

LONG PLOT

Injection C: <PESTEPA> 4 0412SAM,3,1

000878

Sample name.....: GPC 041296
Sample ID.....: AR1660
INST: HP2R, COL: ~~RTX-1701~~, 0.53mm ID, 2ul INJ
CP SIL 19CB for 4/29/96
Acquired on 12-Apr-96 at 13:04:37
Reported on 15-Apr-96 at 11:55:12



VG Data Systems - Minichrom v1.66

000879

INJECTION REPORT

Injection C: <PESTEPA> 4 0411CAL,16,1

All calibrations are copies
RD 050196 Originals retained at AATSLA
Pages 000879 To 000885

Acquired on 12-Apr-96 at 03:40:27
Modified on 15-Apr-80 at 09:05:58
Reported on 15-Apr-96 at 09:13:22

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: CP-SIL 19 CB, ID: 0.53mm, INJ: 2ul
Number of samples.: 27
Calibration file..: 0411CAL Last modified on 14-Apr-80 at 09:37:06
Method file.....: PEST2RP Last modified on 15-Apr-80 at 09:07:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEW Last modified on 15-Apr-80 at 08:39:42

SAMPLE INFORMATION

Sample name.....: EPA1-12-A IR
Sample ID.....: INDAM IR
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 20

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
3	5.444	316556	0.0400	TCX
5	7.329	331884	0.0400	alpha-BHC
6	8.298	327446	0.0400	gamma-BHC
7	8.947	365297	0.0400	HEPTACHLOR
9	13.956	272054	0.0400	ENDOSULFAN I
10	16.218	513730	0.0800	DIELDRIN
11	17.724	443983	0.0800	ENDRIN
12	21.618	321250	0.0800	4,4'-DDD
13	23.276	307962	0.0800	4,4'-DDT
15	26.920	919064	0.4000	METHOXYCHLOR
19	33.004	522065	0.0800	DCB
Total		4641291	1.0000	
Residual		122290	0.0273	

VG Data Systems - Minichrom v1.66

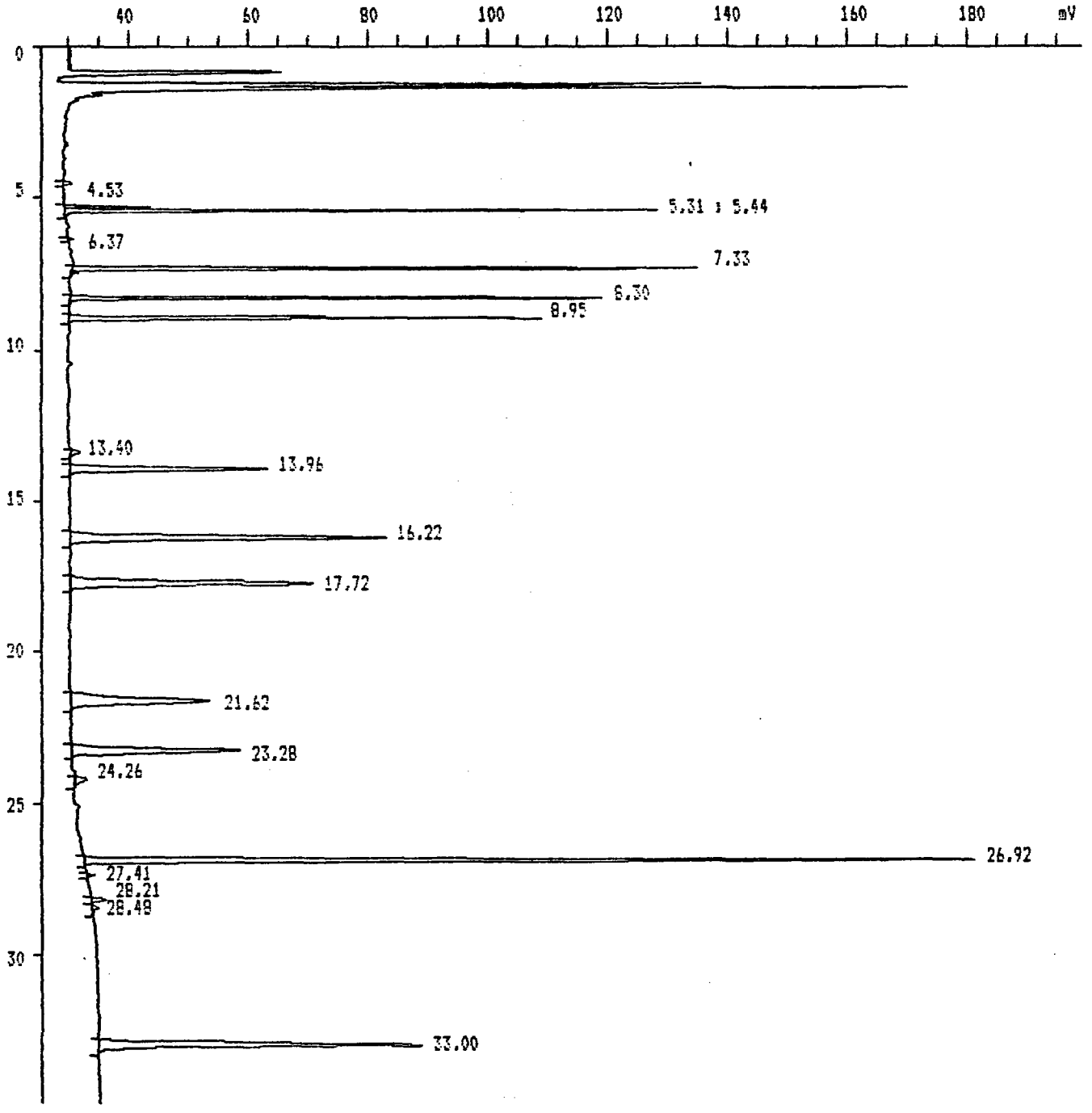
LONG PLOT

000880

Injection C: <PESTEPA> 4 0411CAL,16,1

Sample name.....: EPA1-12-A
Sample ID.....: INDAM
INST: HP2R, COL: CP-SIL 19 CB, 0.53mm ID, 2ul INJ

Acquired on 12-Apr-96 at 03:40:27
Reported on 12-Apr-96 at 04:19:14



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000881

Injection C: <PESTEPA> 4 0411CAL,18,1

Acquired on 12-Apr-96 at 05:14:30
Modified on 15-Apr-80 at 09:07:22
Reported on 15-Apr-96 at 09:14:12

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: CP-SIL 19 CB, ID: 0.53mm, INJ: 2ul
Number of samples.: 27
Calibration file..: 0411CAL Last modified on 14-Apr-80 at 09:37:06
Method file.....: PEST2RP Last modified on 15-Apr-80 at 09:07:58
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEW Last modified on 15-Apr-80 at 08:39:42

SAMPLE INFORMATION

Sample name.....: EPA1-16-A(P
Sample ID.....: INDBM 1R
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 22

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
3	5.440	365136	0.0400	TCX
5	9.809	313785	0.0400	ALDRIN
6	10.453	219294	0.0400	beta-BHC
7	11.453	261407	0.0400	delta-BHC
8	12.542	342943	0.0400	HEPT. EPOXIDE
9	14.200	350243	0.0400	g. CHLORDANE
10	14.658	339628	0.0400	a. CHLORDANE
11	15.111	463966	0.0800	4,4'-DDE
12	22.036	534232	0.0800	ENDOSULFAN II
13	25.107	225853	0.0800	ENDRIN ALDEHYDE
14	26.684	391629	0.0800	ENDO. SULFATE
15	28.209	345876	0.0800	ENDRIN KETONE
16	33.000	549326	0.0800	DCB
Total		4703319	0.7600	
Residual		96549	0.0106	

VG Data Systems - Minichrom v1.66

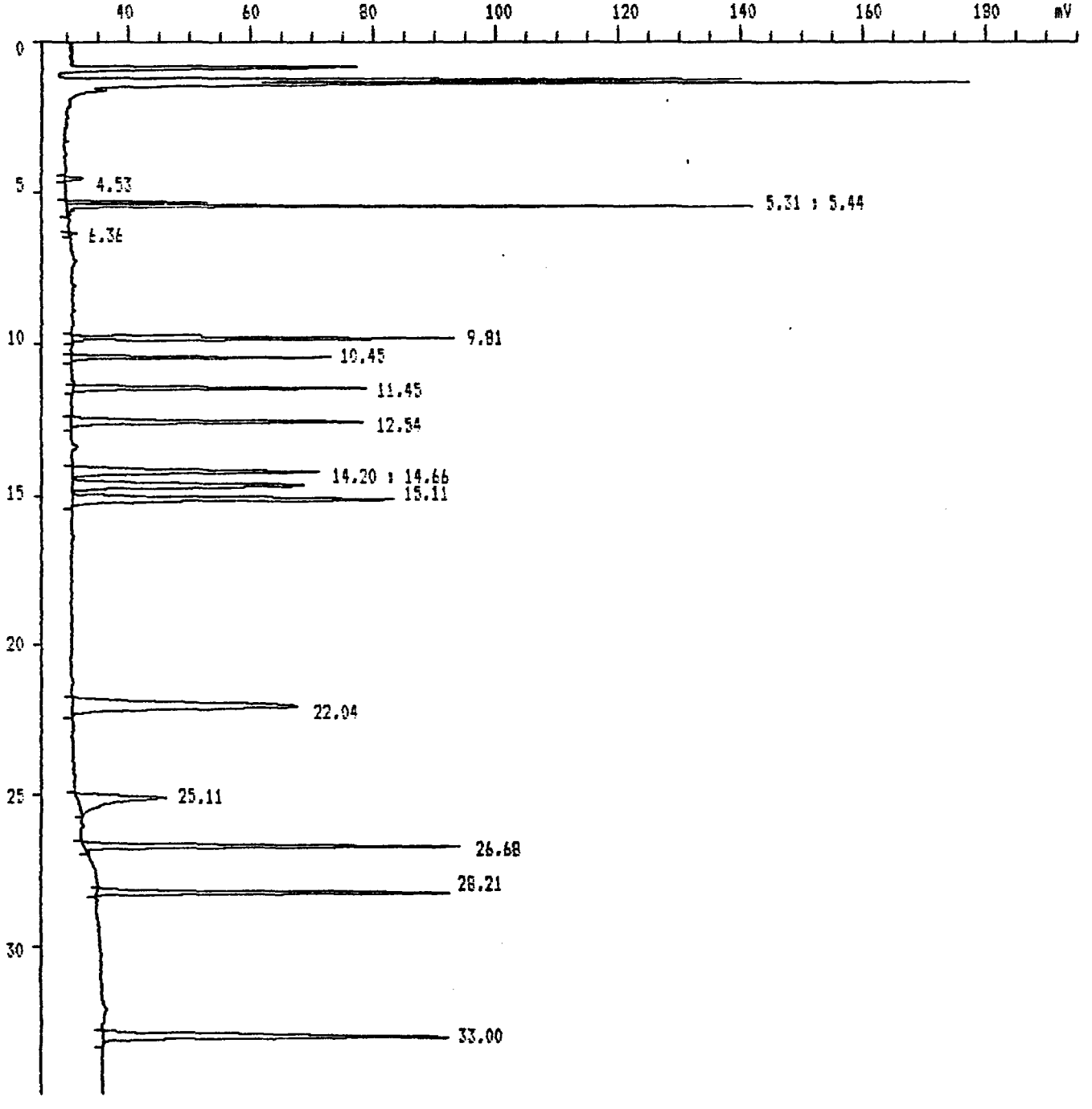
LONG PLOT

000882

Injection C: <PESTEPA> 4 0411CAL,18,1

Sample name.....: EPA1-16-A IR
Sample ID.....: INDBM IR
INST: HP2R, COL: CP-SIL 19 CB, 0.53mm ID, 2ul INJ

Acquired on 12-Apr-96 at 05:14:30
Reported on 12-Apr-96 at 05:53:21



VG Data Systems - Minichrom v1.66

INJECTION REPORT

Injection C: <PESTEPA> 4 0411CAL,5,1

000883

Acquired on 11-Apr-96 at 19:02:22
Modified on 15-Apr-80 at 08:54:26
Reported on 15-Apr-96 at 08:56:17

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: CP-SIL 19 CB, ID: 0.53mm, INJ: 2ul
Number of samples.: 27
Calibration file..: AR1660 Last modified on 15-Apr-80 at 08:54:24
Method file.....: PEST2RP Last modified on 15-Apr-80 at 08:53:50
Method title.....: PESTICIDES/PCB'S BY OLM01.8
Control file.....: PESTNEW Last modified on 15-Apr-80 at 08:39:42

SAMPLE INFORMATION

Sample name.....: EPA1-20-A|R
Sample ID.....: AR1660|R
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 9

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
4	5.440	351581	0.0400	TCX
9	6.591	49454	0.2000	AROCLOR-1016
12	7.449	97106	0.2000	AROCLOR-1016-2
17	8.560	208744	0.2000	AROCLOR-1016-3
18	8.964	85361	0.2000	AROCLOR-1016-4
19	9.262	76642	0.2000	AROCLOR-1016-5
33	16.982	105017	0.2000	AROCLOR-1260
38	22.102	150542	0.2000	AROCLOR-1260-2
45	26.400	143884	0.2000	AROCLOR-1260-3
47	27.813	135054	0.2000	AROCLOR-1260-4
48	28.484	1648954	0.2000	AROCLOR-1260-5
53	33.009	332534	0.0400	DCB
Total		3384873	2.0800	
Residual		2513929	3.5570	

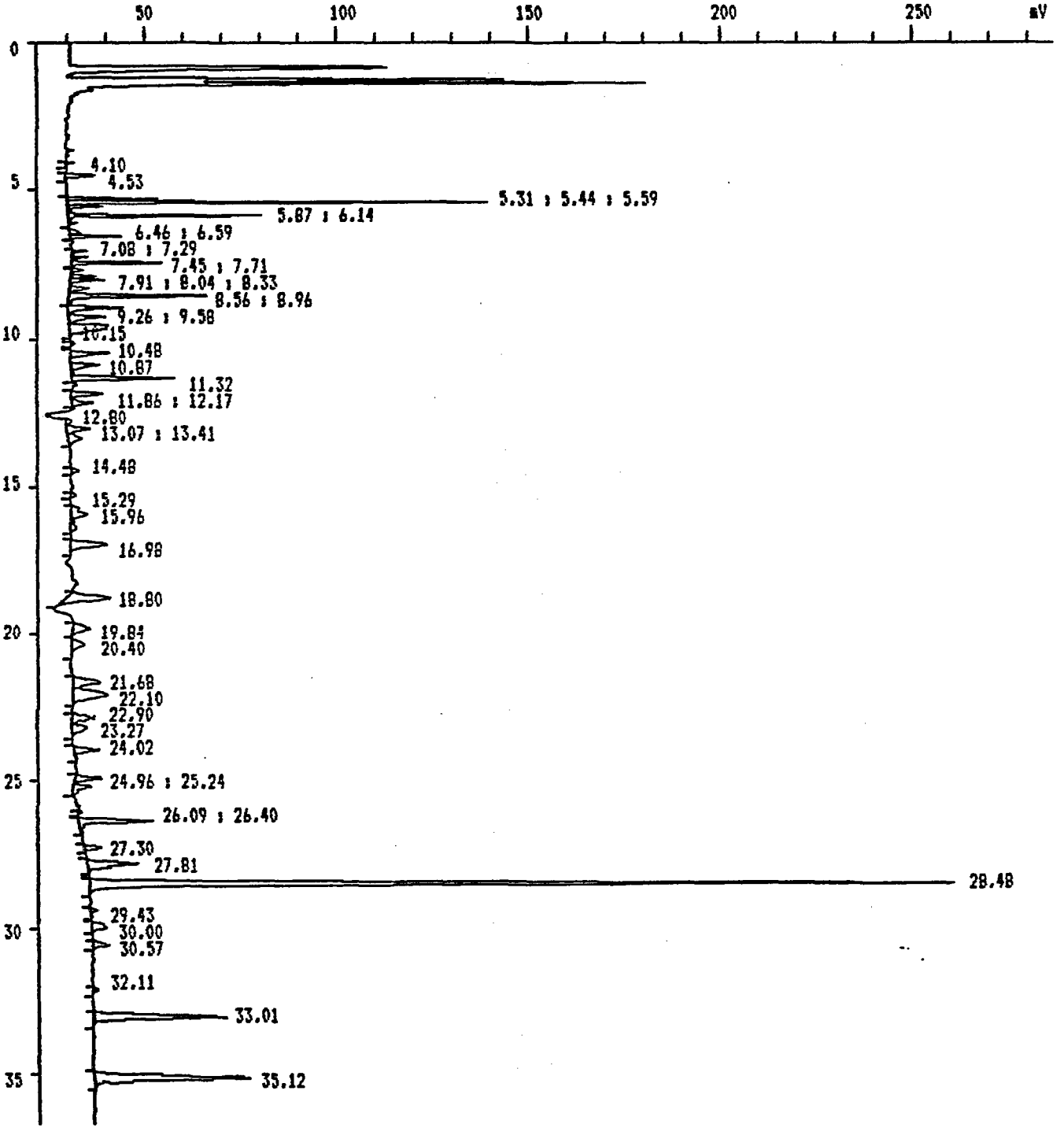
VG Data Systems - Minichrom v1.66

LONG PLOT

000884

Injection C: <PESTEPA> 4 0411CAL,5,1

Sample name.....: EPA1-20-A IR
Sample ID.....: AR1660 IA
INST: HP2R, COL: ~~RTX-1701~~, 0.53mm ID, 2ul INJ
CP-SIL 19CB for 4/30/96
Acquired on 11-Apr-96 at 19:02:22
Reported on 15-Apr-96 at 08:51:20



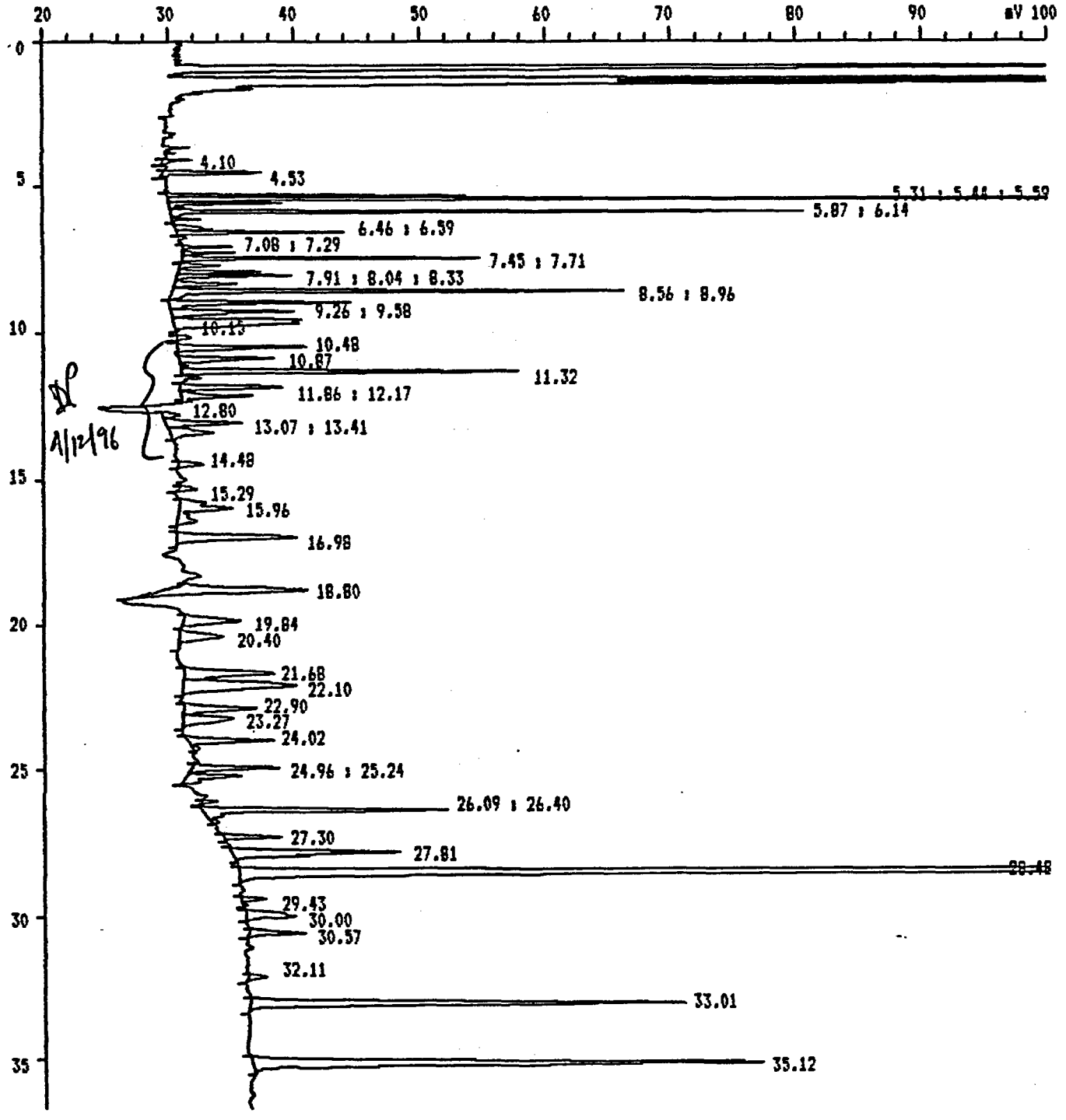
VG Data Systems - Minichrom v1.66

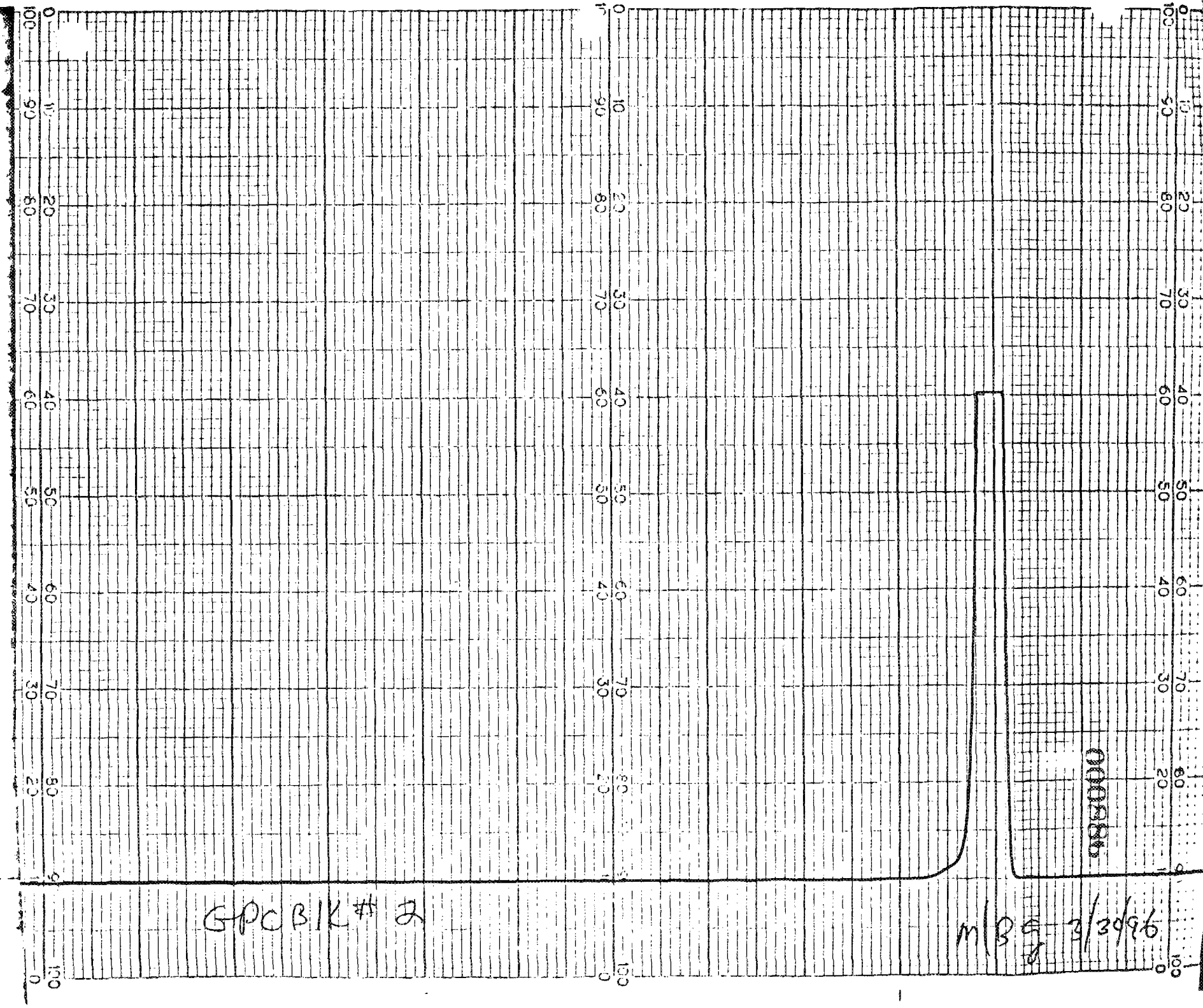
LONG PLOT

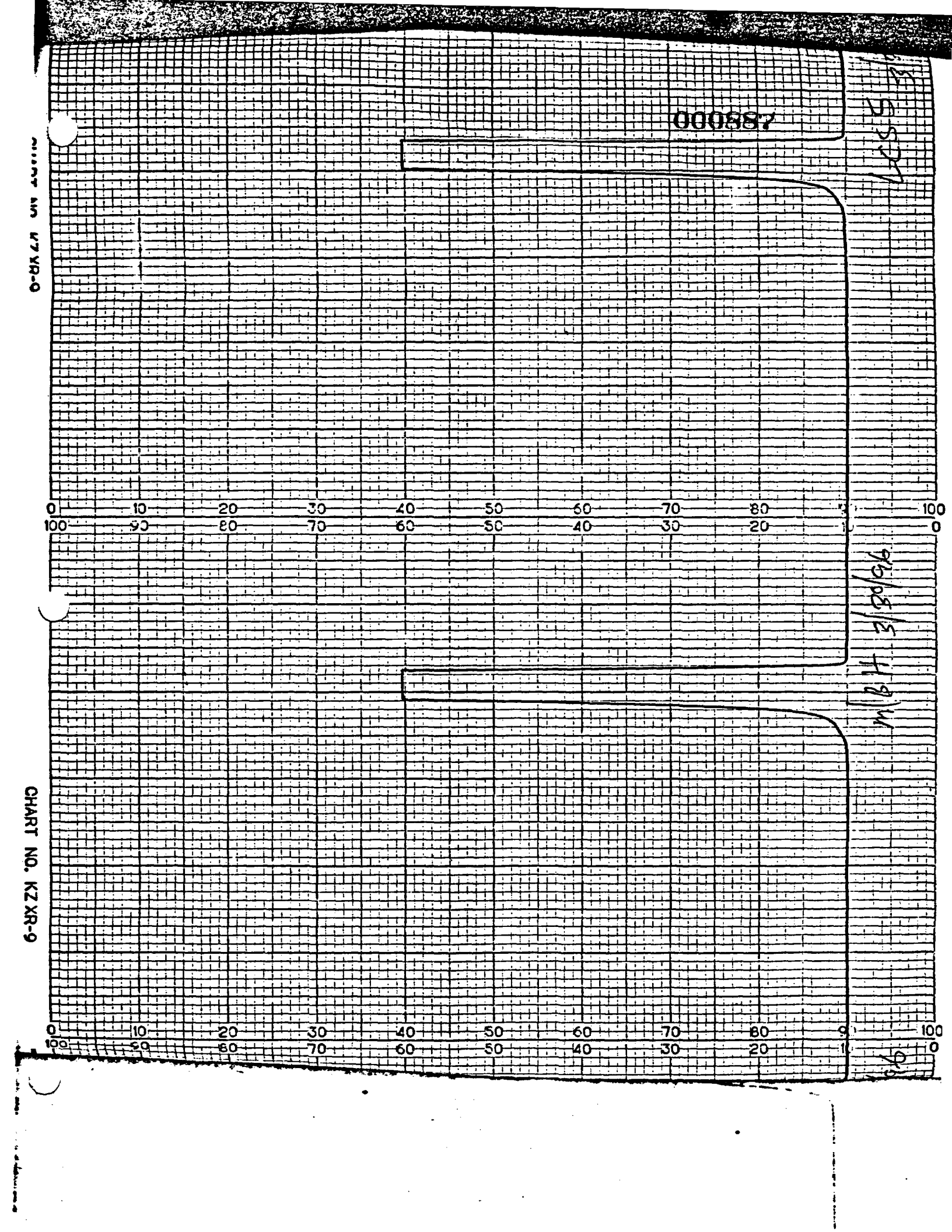
Injection C: <PESTEPA> 4 0411CAL,5,1

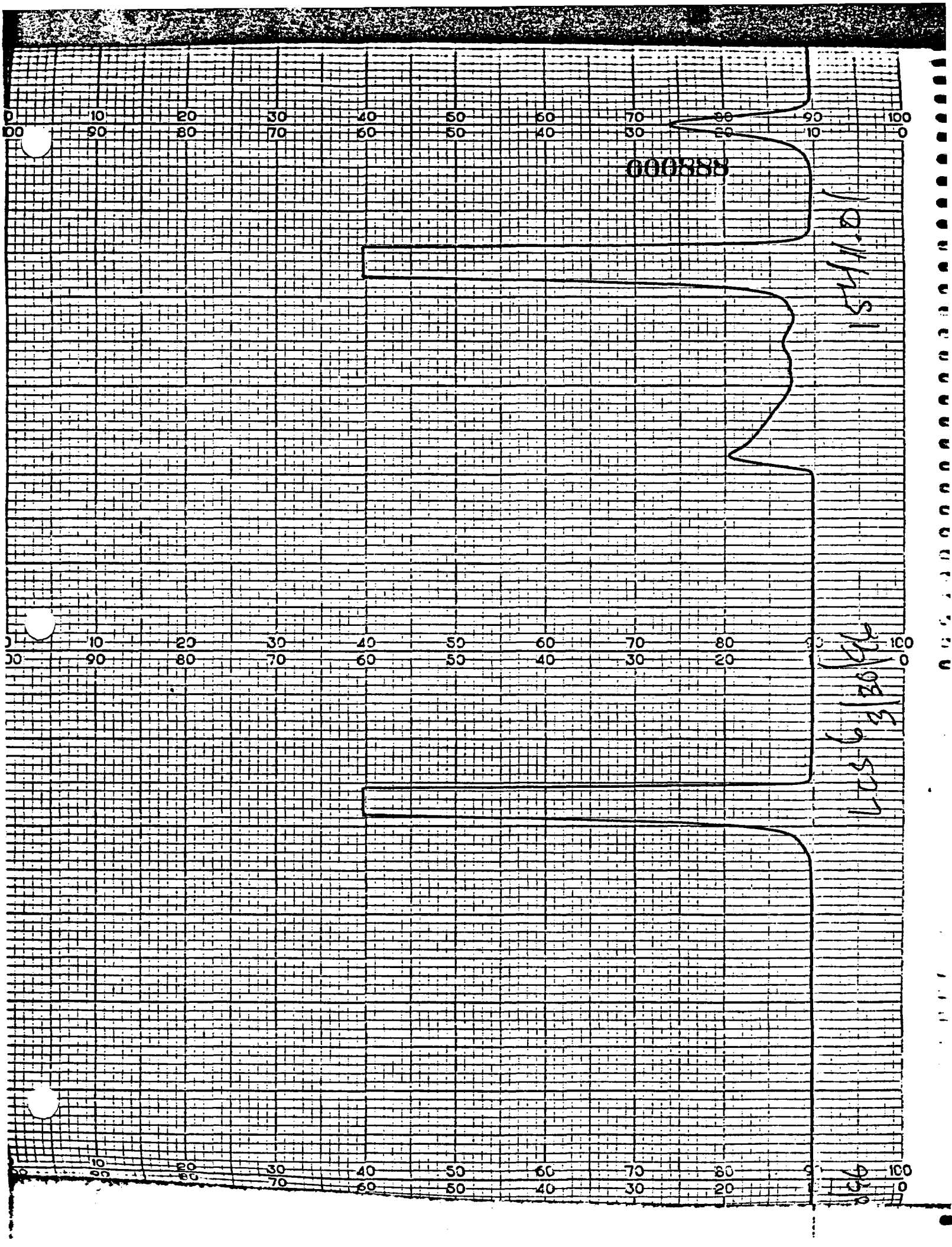
000885

Sample name.....: EPA1-20-A 1R
Sample ID.....: AR1660 1R
INST: HP2R, COL: ~~RTX-1701~~, 0.53mm ID, 2ul INJ
CP SIL 19 CB [illegible] 4/30/96
Acquired on 11-Apr-96 at 19:02:22
Reported on 12-Apr-96 at 17:21:51




GPCBIK # 2
MBG 3/30/96
000886


000887
CHART NO. KZ XR-9
0 10 20 30 40 50 60 70 80 100
100 90 80 70 60 50 40 30 20 0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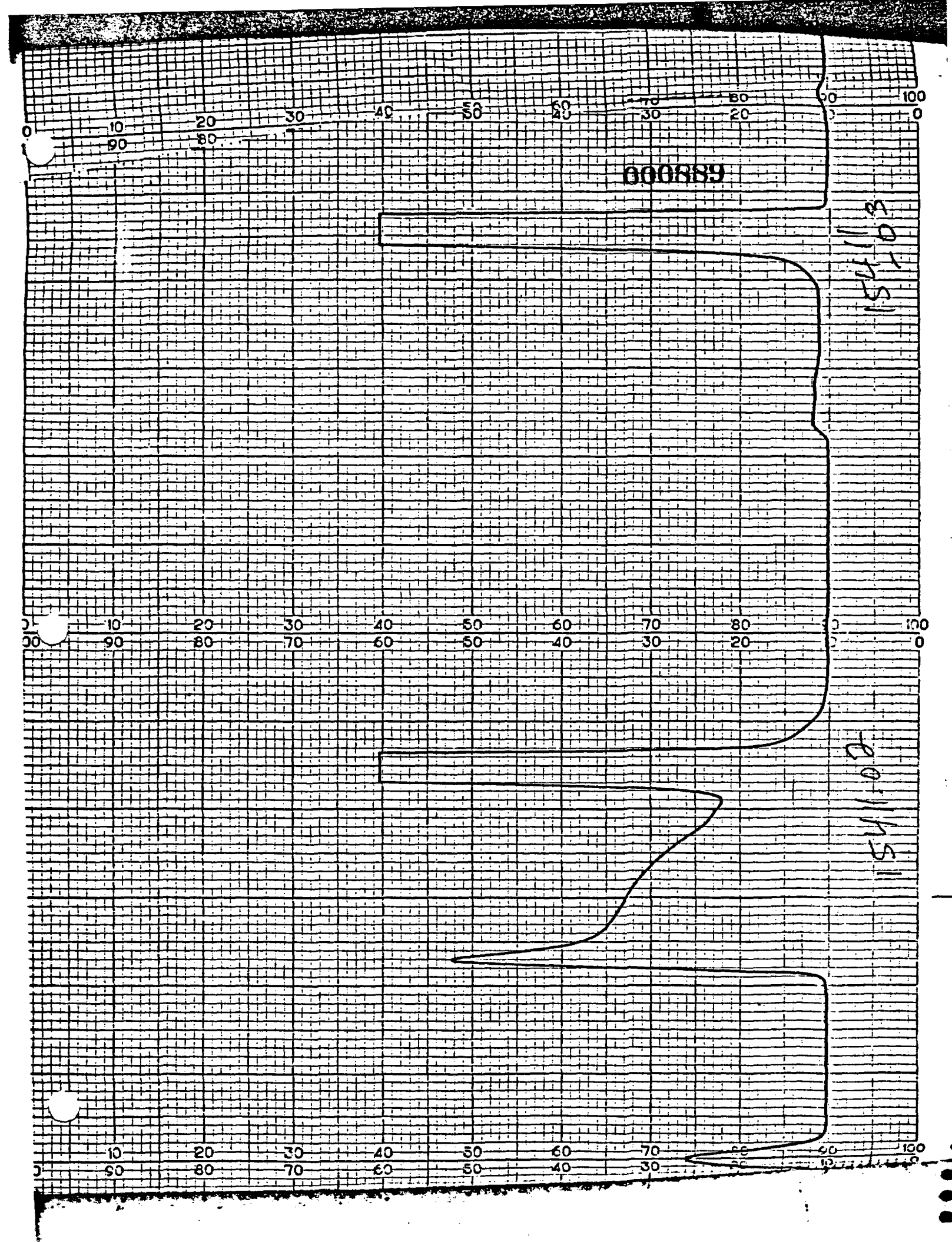
100 90 80 70 60 50 40 30 20 10 0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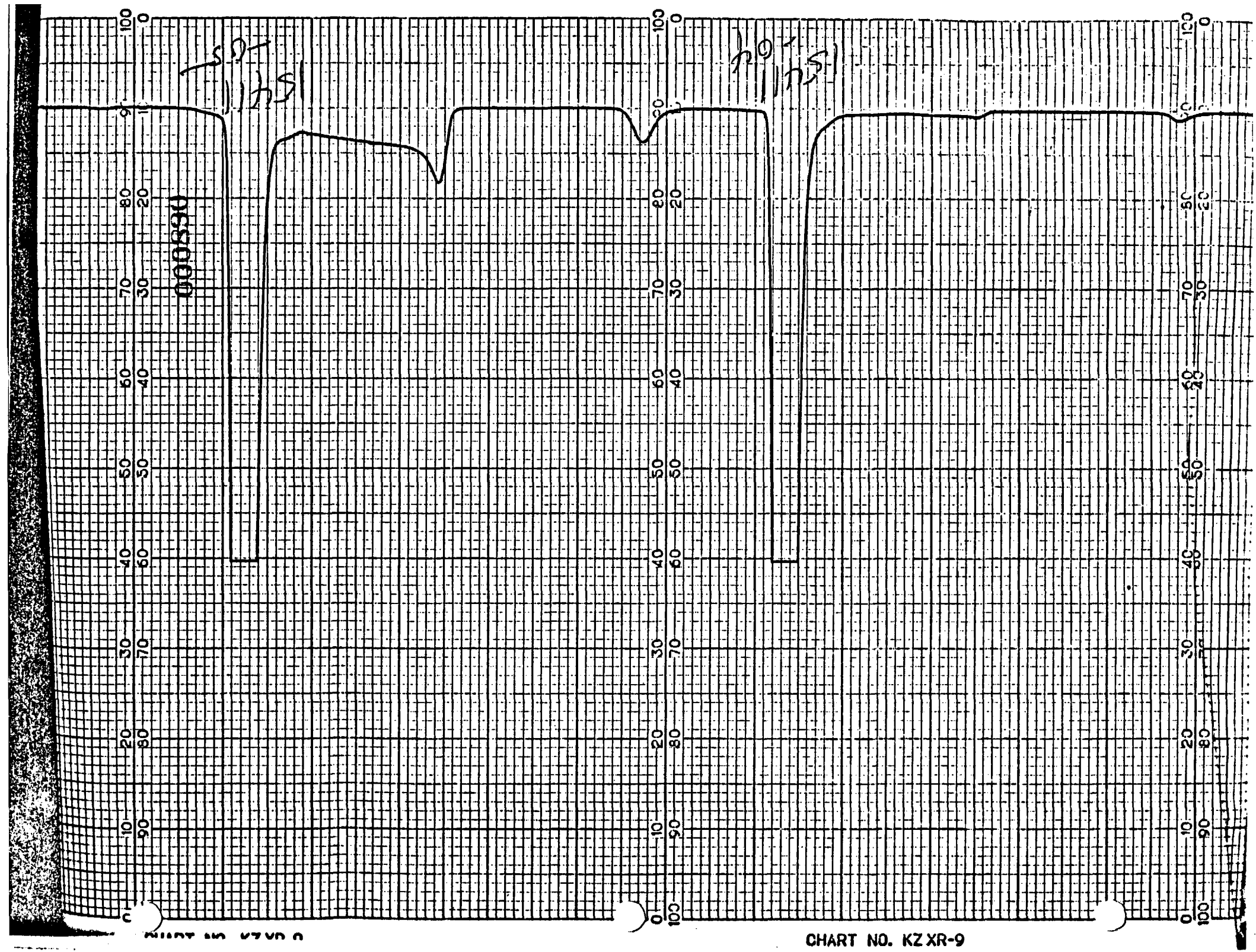
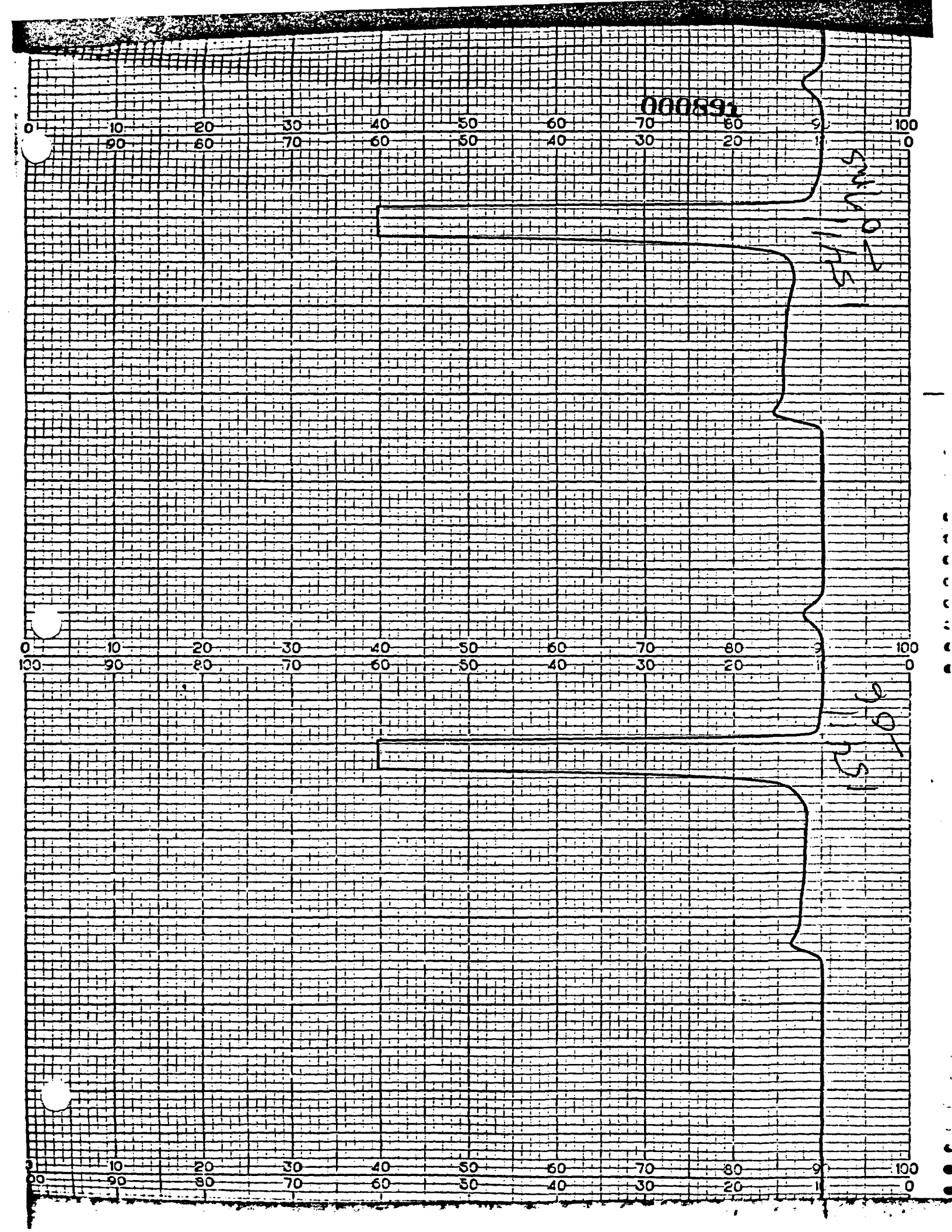


CHART NO. KZ XR-9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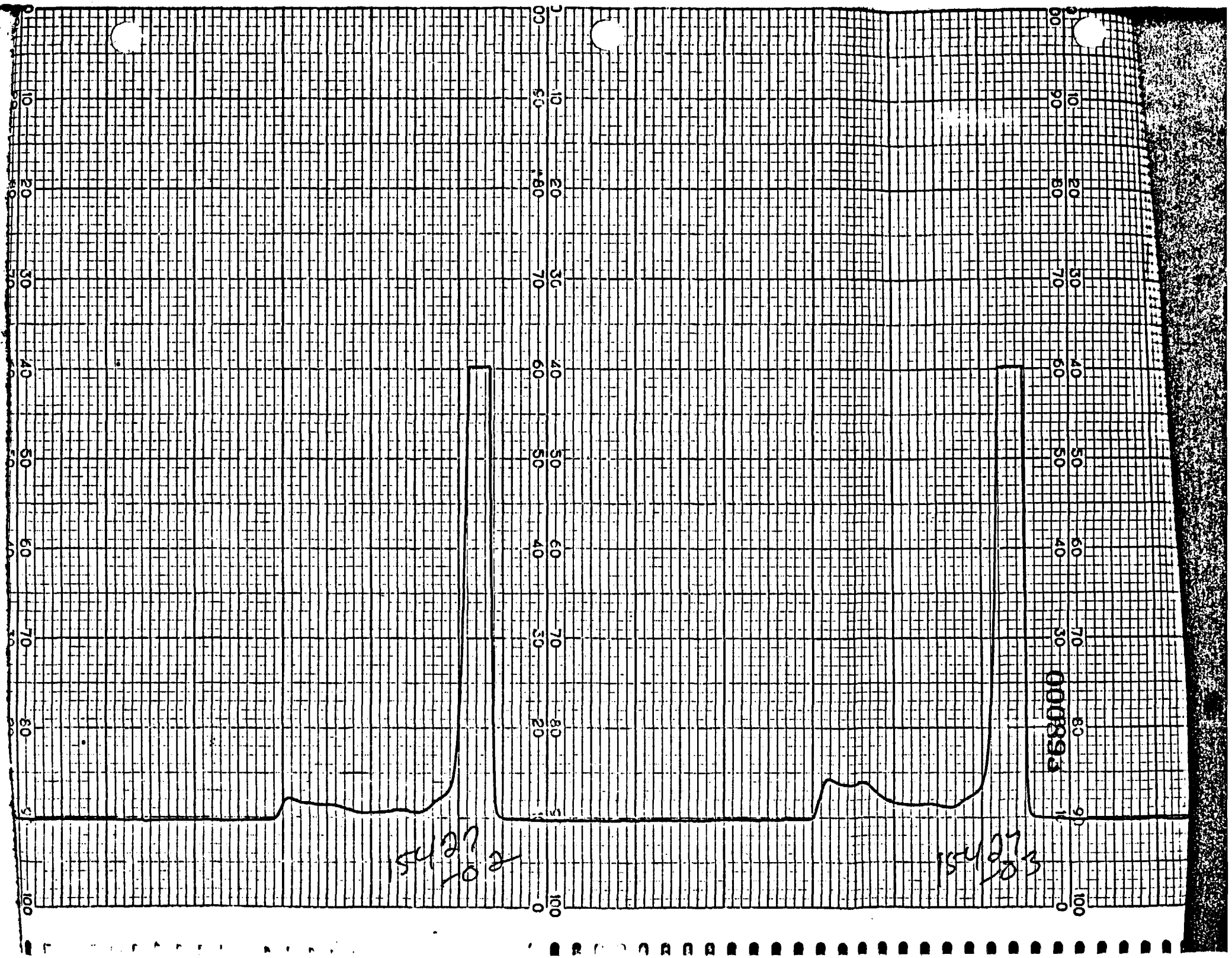
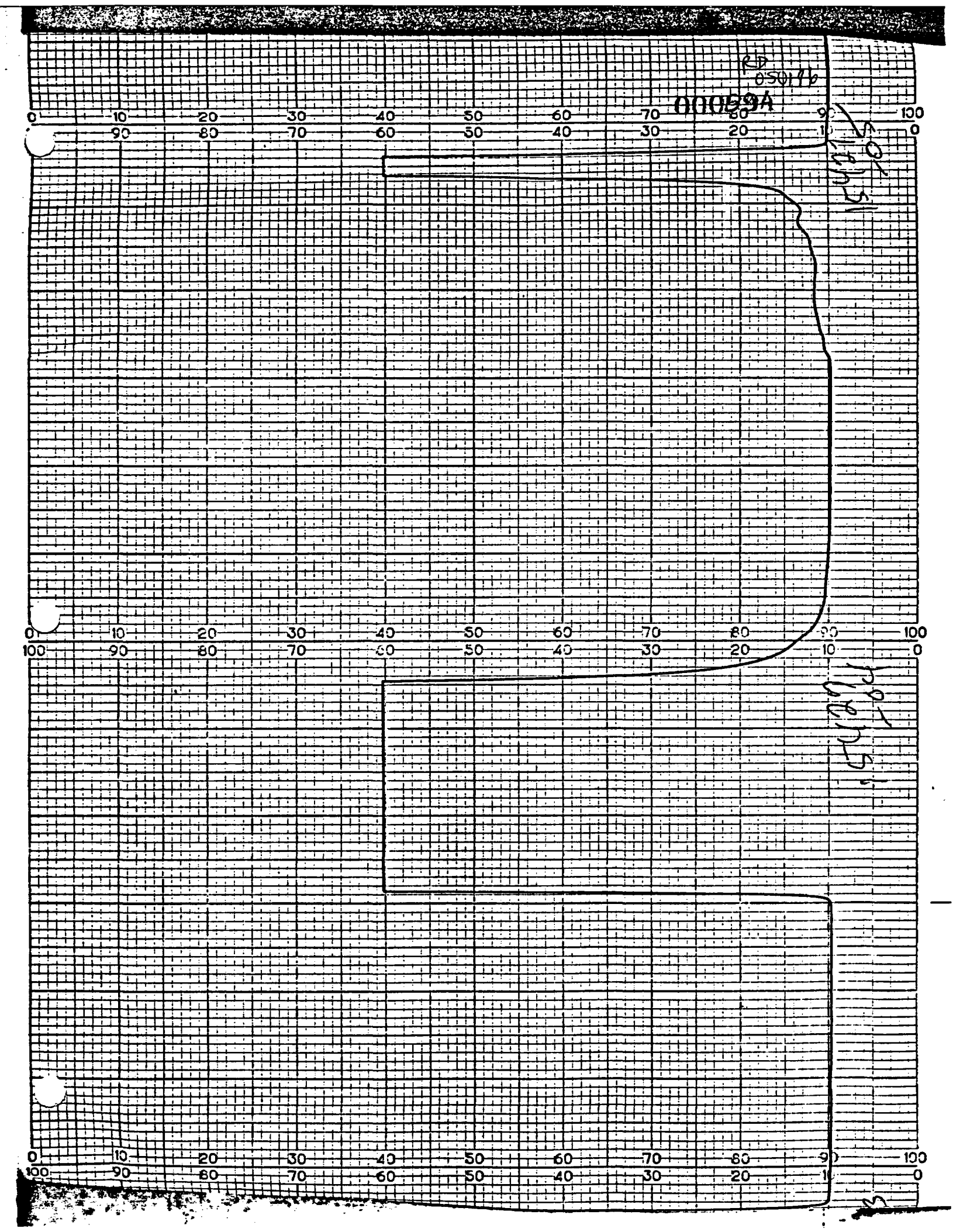
100 90 80 70 60 50 40 30 20 10 0


15427
-02
15427
-03
000893


RD
050196
000589A
0 10 20 30 40 50 60 70 80 90 100
90 80 70 60 50 40 30 20 10 0
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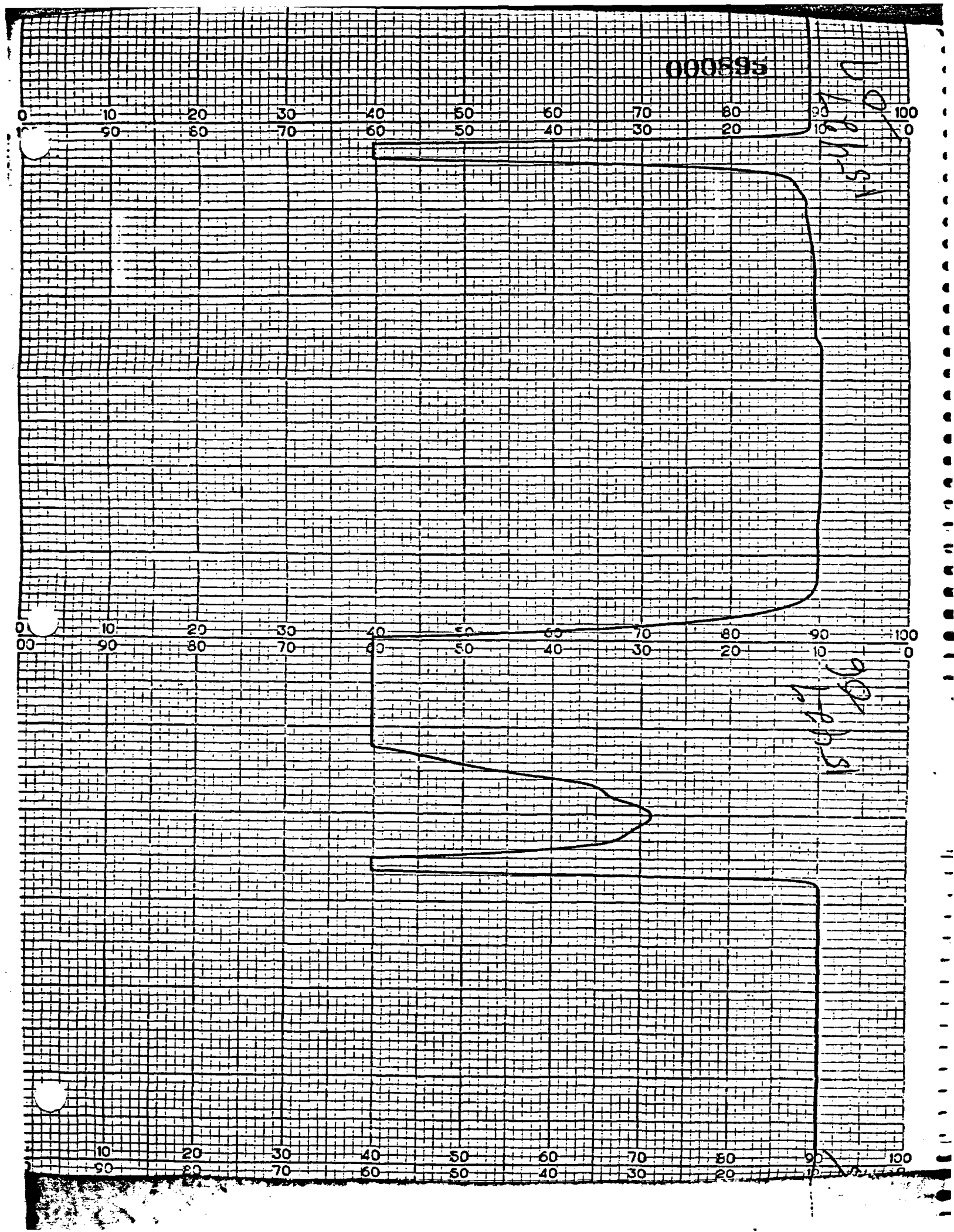
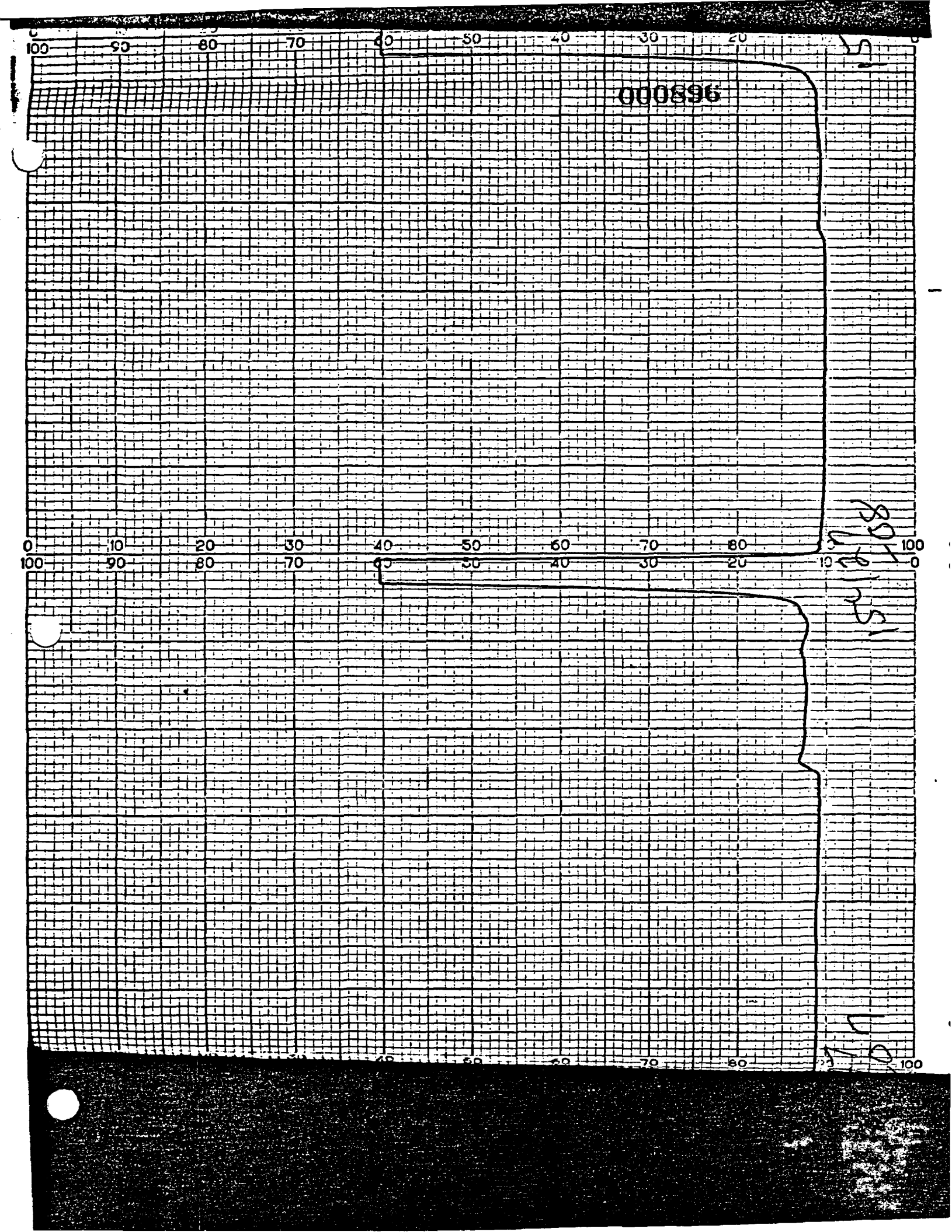
100 90 80 70 60 50 40 30 20 10 0


000895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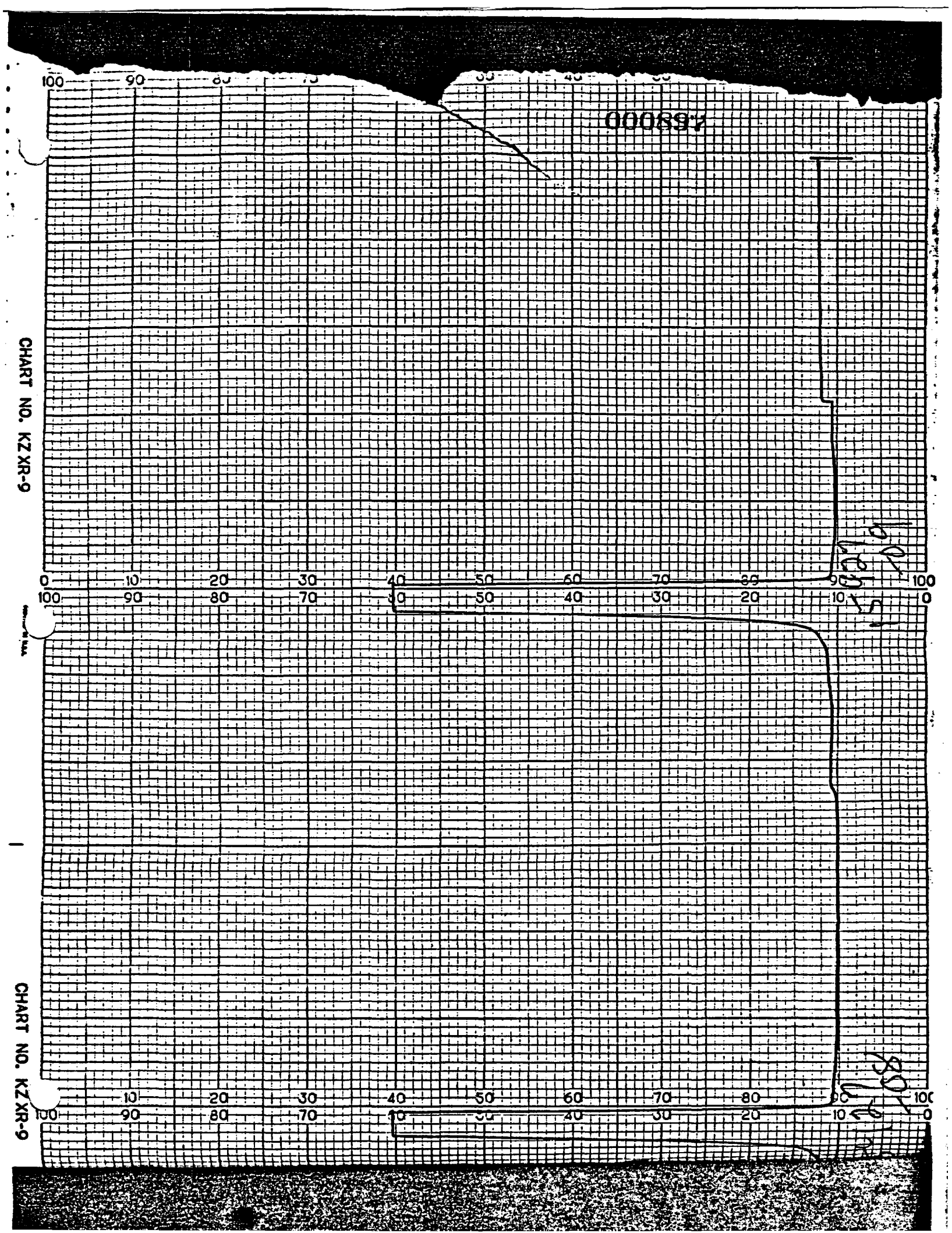
100 90 80 70 60 50 40 30 20 10 0


000897
CHART NO. KZ XR-9
CHART NO. KZ XR-9

VG Data Systems - Minichrom v1.66

INJECTION REPORT 000898

Injection C: <PESTEPA> 4 1018FLO,1,1

Acquired on 18-Oct-95 at 08:06:29
Modified on 18-Oct-95 at 09:01:20
Reported on 18-Oct-95 at 09:01:39

RD 050196 All calibrations are copies Originals retained at AATSLA Pages 000898 To 000909

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: RTX-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 7
Calibration file..: 1017CAL Last modified on 18-Oct-95 at 09:01:18
Method file.....: PEST2R Last modified on 18-Oct-95 at 09:01:00
Method title.....: PESTICIDES/PCB'S BY OLM01.8

SAMPLE INFORMATION

Sample name.....: FLORISIL LOT#942358
Sample ID.....: FLO
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 2

User factors:
EXTRACTION FACTOR.....: 10.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
2	6.018	260405	0.1008	TCX
6	8.369	252503	0.0949	alpha-BHC
7	9.409	237263	0.0921	gamma-BHC
9	9.907	277605	0.1002	HEPTACHLOR
15	12.009	138067	0.0631	delta-BHC
16	12.311	61379	0.0248	HEPT. EPOXIDE
18	13.027	212202	0.1050	ENDOSULFAN I
20	13.911	410519	0.2057	DIELDRIN
22	14.440	320964	0.2109	ENDRIN
25	15.440	307922	0.1998	4,4'-DDD
26	15.662	67785	0.0381	ENDOSULFAN II
27	15.822	281012	0.2147	4,4'-DDT
29	16.693	8221	5.8765E-003	ENDRIN ALDEHYDE
32	17.373	773070	1.1330	METHOXYCHLOR
33	18.818	8562	4.8700E-003	ENDRIN KETONE
36	22.244	513663	0.2235	DCB
Total		4131144	2.8176	
Residual		2413032	1.2772	

VG Data Systems - Minichrom v1.66

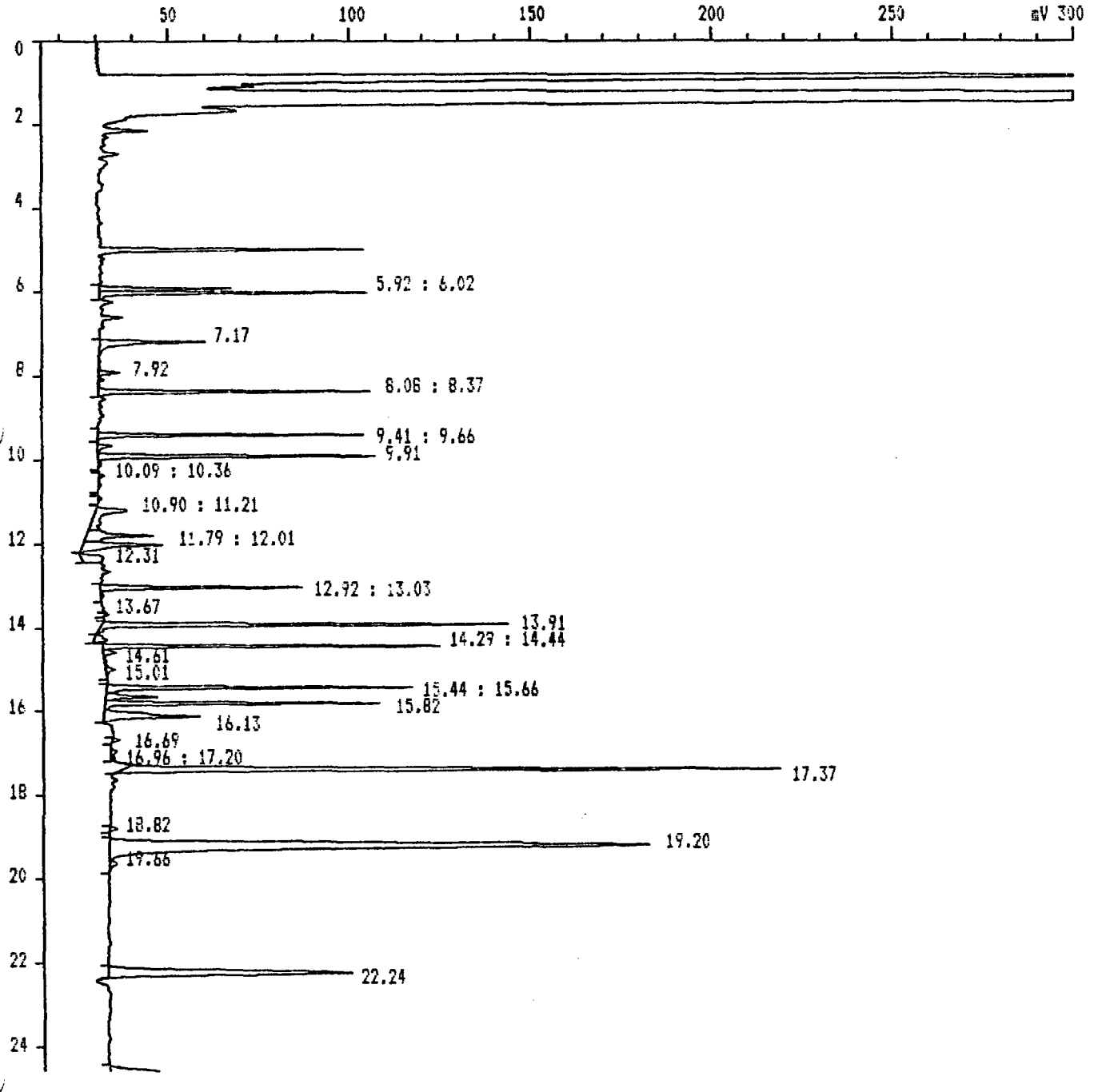
LONG PLOT

Jection C: <PESTEPA> 4 1018FLO,1,1

000899

Sample name.....: FLORISIL LOT#942358
Sample ID.....: FLO
INST: HP2R, COL: RTX-1701, 0.53mm ID, 2ul INJ

Acquired on 18-Oct-95 at 08:06:29
Reported on 18-Oct-95 at 08:59:52



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000900

jection C: <PESTEPA> 4 FLOB1012,1,1

Acquired on 12-Oct-95 at 14:09:56
Modified on 12-Oct-95 at 14:37:14
Reported on 12-Oct-95 at 14:37:19

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: RTX-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 2
Calibration file..: 0926CAL Last modified on 12-Oct-95 at 14:37:12
Method file.....: PEST2R Last modified on 12-Oct-95 at 09:55:16
Method title.....: PESTICIDES/PCB'S BY OLM01.8

SAMPLE INFORMATION

Sample name.....: FLO #4 11/12
Sample ID.....: Lot# 942358
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 2

ier factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
1	0.858	2692585	0.1085	
2	1.311	3235416	0.1303	
3	1.431	3225437	0.1299	
4	1.689	351232	0.0141	
5	2.169	85535	3.4456E-003	
6	2.733	24410	9.8331E-004	
7	2.956	21431	8.6329E-004	
8	3.462	11652	4.6938E-004	
9	5.022	192754	7.7647E-003	
10	5.227	5719	2.3037E-004	
11	5.947	72265	2.9111E-003	
12	6.044	187833	7.5665E-003	TCX
13	6.262	7108	2.8635E-004	
14	7.200	92905	3.7425E-003	
15	7.951	9869	3.9755E-004	
16	8.400	164431	6.3225E-003	alpha-BHC
17	8.578	5884	2.2625E-004	
18	8.973	5409	2.0797E-004	
19	9.440	166081	6.6261E-003	gamma-BHC
20	9.693	4137	1.6505E-004	
21	9.938	208957	8.0714E-003	HEPTACHLOR
22	11.218	25594	9.8862E-004	
23	12.680	21370	8.2547E-004	
24	13.062	150000	7.8395E-003	ENDOSULFAN I

No TCI!

Peak	RT mins	Area uVs	ug/L	Peak name
25	13.947	281921	0.0150	DIELDRIN
26	14.476	240694	0.0155	ENDRIN
27	15.476	206318	0.0138	4,4'-DDD
28	15.858	192979	0.0159	4,4'-DDT
29	16.093	41391	3.4111E-003	
30	16.733	6292	4.8282E-004	ENDRIN ALDEHYDE
31	17.413	560558	0.0834	METHOXYCHLOR
32	17.680	4857	7.2269E-004	
33	18.862	4670	2.8907E-004	ENDRIN KETONE
34	22.302	347409	0.0163	DCB
Total		12855101	0.6076	
Residual		0	0.0000	

000901

FLD
Lot# 942358

VG Data Systems - Minichrom v1.66

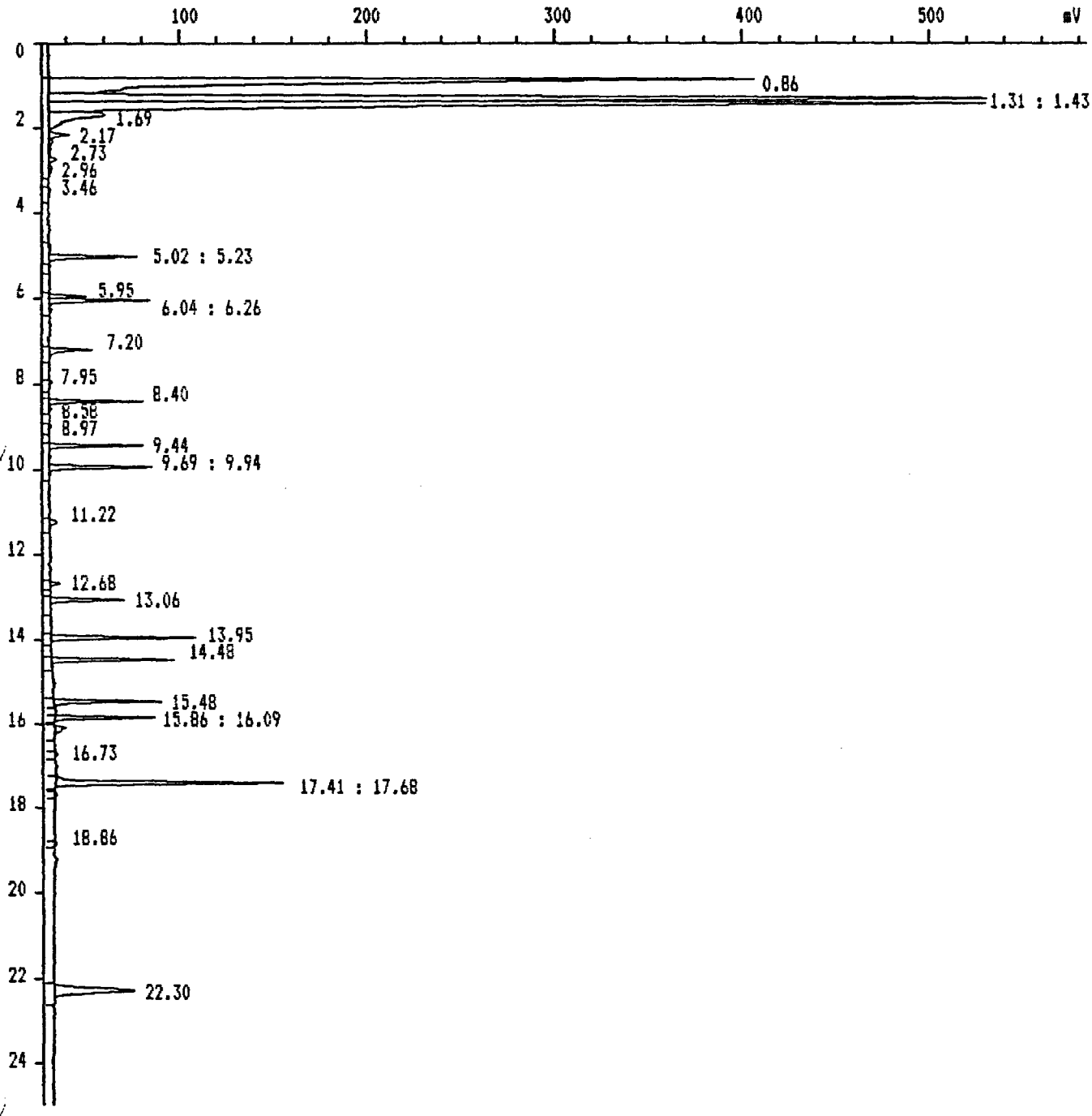
LONG PLOT

000902

Injection C: <PESTEPA> 4 FLOB1012,1,1

Sample name.....: FLO #4 11/12
Sample ID.....: LOT #942358
INST: HP2R, COL: RTX-1701, 0.53mm ID, 2ul INJ

Acquired on 12-Oct-95 at 14:09:56
Reported on 12-Oct-95 at 14:37:29



VG Data Systems - Minichrom v1.66

INJECTION REPORT

Injection C: <PESTEPA> 4 1017CAL,16,1 **000903**

Acquired on 18-Oct-95 at 00:02:17
Modified on 19-Oct-95 at 07:19:42
Reported on 19-Oct-95 at 07:47:56

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: RTX-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 1017CAL Last modified on 18-Oct-95 at 19:41:26
Method file.....: PEST2RP Last modified on 19-Oct-95 at 07:47:00
Method title.....: PESTICIDES/PCB'S BY OLM01.8

SAMPLE INFORMATION

Sample name.....: EPA1-12-A IR
Sample ID.....: INDAM IR
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 20

Retention time update.....: Initialise
Calibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	6.027	516467	0.0400	TCX
4	8.378	532358	0.0400	alpha-BHC
6	9.422	515292	0.0400	gamma-BHC
7	9.916	553915	0.0400	HEPTACHLOR
10	13.036	404016	0.0400	ENDOSULFAN I
12	13.924	798106	0.0800	DIELDRIN
13	14.449	608731	0.0800	ENDRIN
14	15.449	616327	0.0800	4,4'-DDD
16	15.831	523487	0.0800	4,4'-DDT
20	17.382	1364634	0.4000	METHOXYCHLOR
23	22.258	919280	0.0800	DCB
Total		7352614	1.0000	
Residual		307664	0.0460	

VG Data Systems - Minichrom v1.66

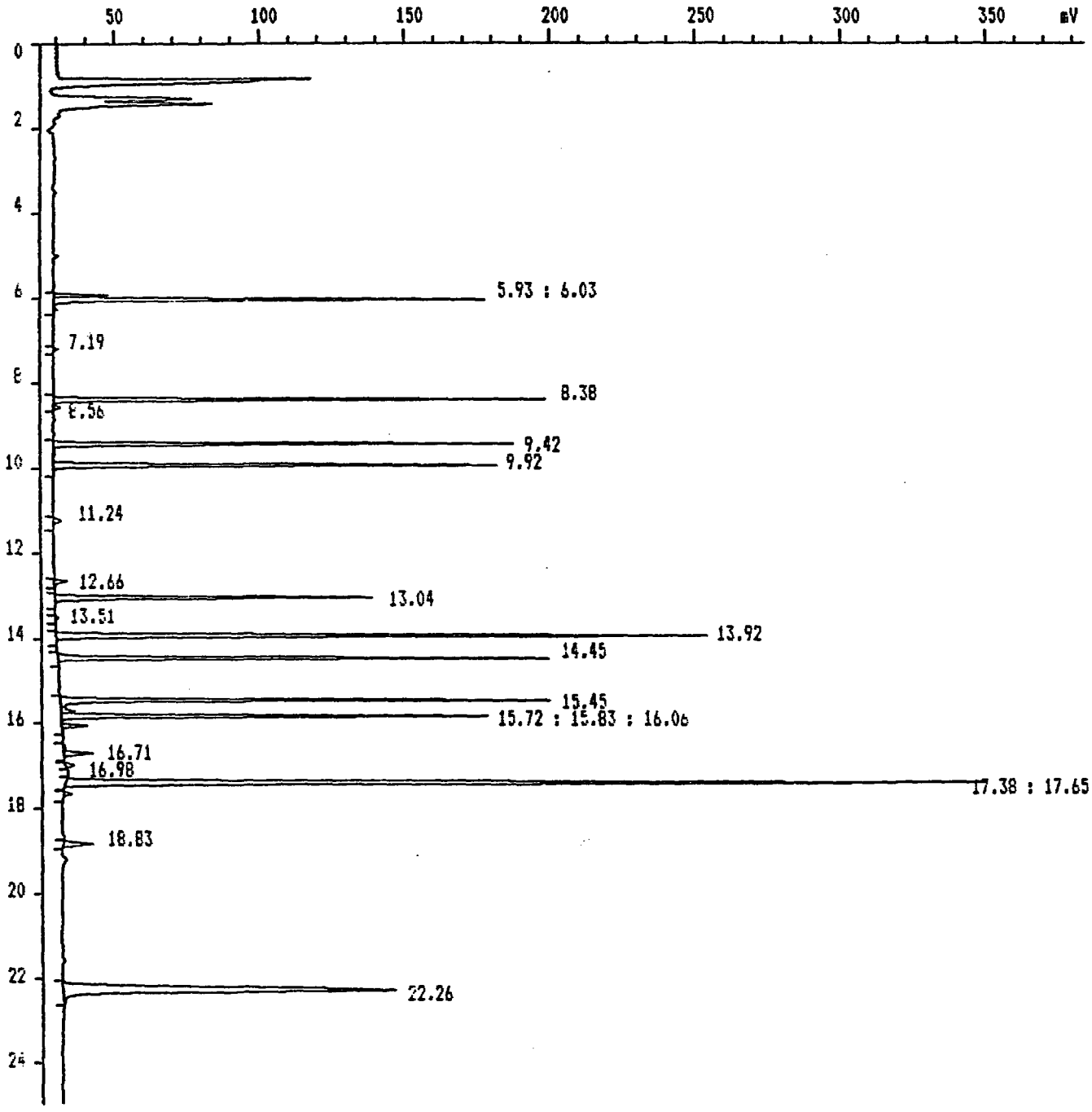
LONG PLOT

Section C: <PESTEPA> 4 1017CAL,16,1

000904

Sample name.....: EPA1-12-A1
Sample ID.....: INDAM1
INST: HP2R, COL: RTX-1701, 0.53mm ID, 2ul INJ

Acquired on 18-Oct-95 at 00:02:17
Reported on 18-Oct-95 at 07:01:11



VG Data Systems - Minichrom v1.66

INJECTION REPORT

000905

jection C: <PESTEPA> 4 1017CAL,18,1

Acquired on 18-Oct-95 at 01:05:38
Modified on 19-Oct-95 at 07:21:22
Reported on 19-Oct-95 at 07:48:10

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: RTX-1701, ID: 0.53mm, INJ: 2ul
Number of samples.: 28
Calibration file..: 1017CAL Last modified on 18-Oct-95 at 19:41:26
Method file.....: PEST2RP Last modified on 19-Oct-95 at 07:47:00
Method title.....: PESTICIDES/PCB'S BY OLM01.8

SAMPLE INFORMATION

Sample name.....: EPA1-16-A 1f
Sample ID.....: INDBM 1f
Sample type.....: Standard
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 22

tention time update.....: Initialise
alibration level identifier.....: 1
Response factor update.....: Initialise

User factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ng	Peak name
2	6.031	553051	0.0400	TCX
6	10.596	502349	0.0400	ALDRIN
8	11.391	299525	0.0400	beta-BHC
10	11.960	437372	0.0400	delta-BHC
11	12.360	494895	0.0400	HEPT. EPOXIDE
13	13.182	491255	0.0400	g. CHLORDANE
14	13.333	476326	0.0400	a. CHLORDANE
15	13.511	805525	0.0800	4,4'-DDE
17	15.644	711292	0.0800	ENDOSULFAN II
18	16.707	559611	0.0800	ENDRIN ALDEHYDE
20	17.596	691212	0.0800	ENDO. SULFATE
22	18.831	703207	0.0800	ENDRIN KETONE
24	22.262	962464	0.0800	DCB
otal		7688084	0.7600	
esidual		157643	0.0144	

VG Data Systems - Minichrom v1.66

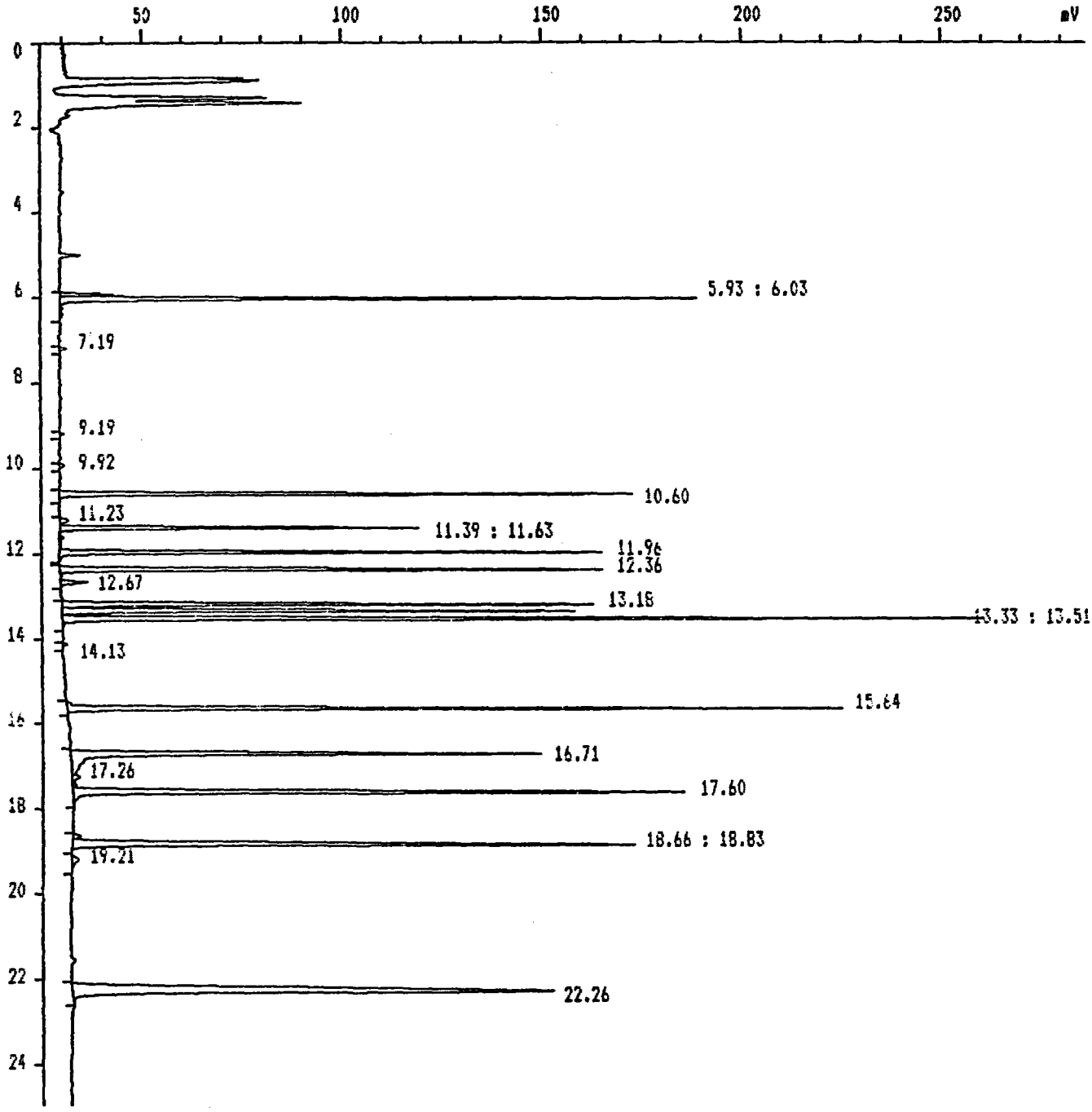
LONG PLOT

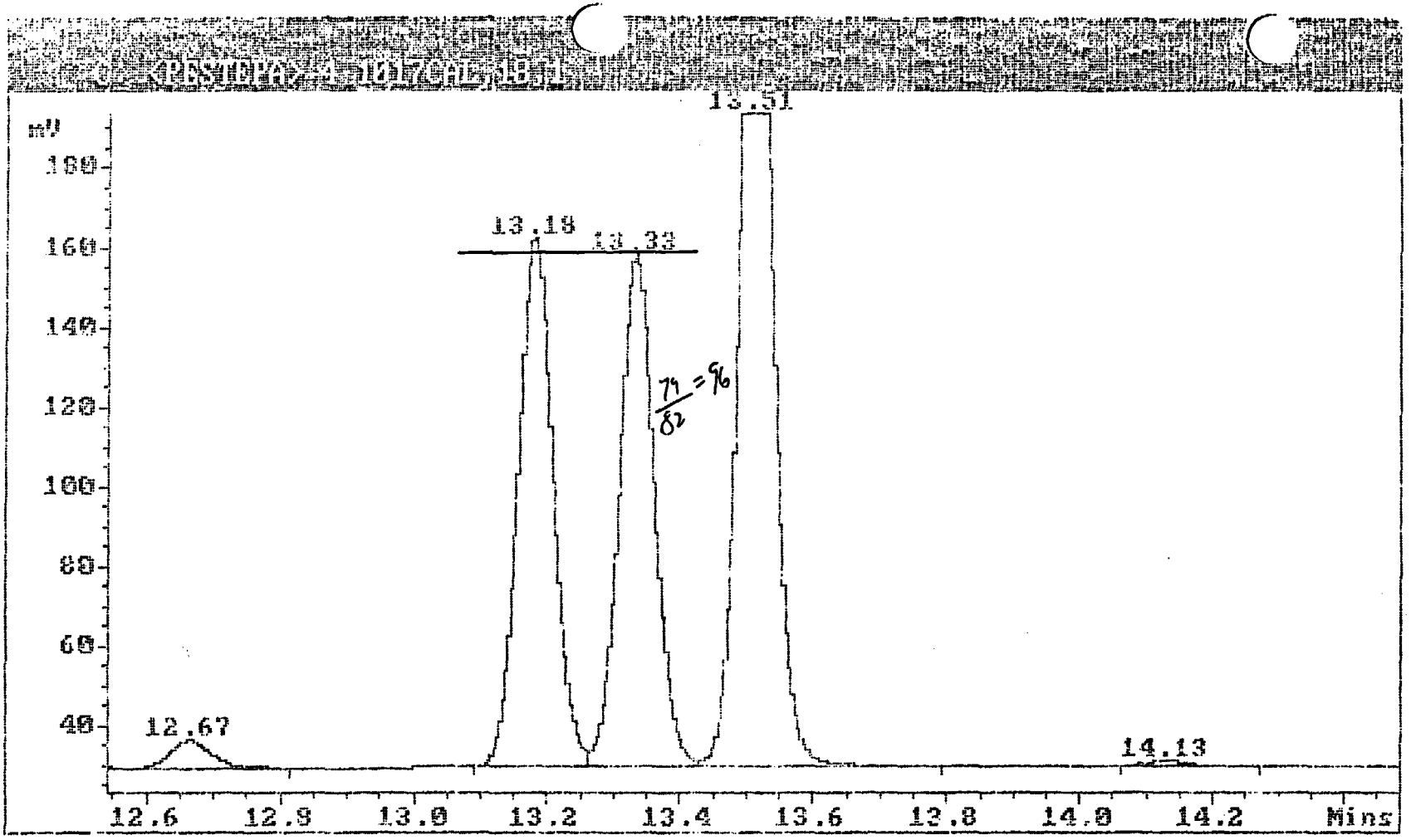
Jection C: <PESTEPA> 4 1017CAL,18,1

000906

Sample name.....: EPA1-16-A1
Sample ID.....: INDBM1
INST: HP2R, COL: RTX-1701, 0.53mm ID, 2ul INJ

Acquired on 18-Oct-95 at 01:05:38
Reported on 18-Oct-95 at 07:10:40




mV
180
160
140
120
100
80
60
40
13.51
13.18
13.33
79/82 = 96
12.67
14.13
12.6
12.8
13.0
13.2
13.4
13.6
13.8
14.0
14.2
Mins

000907

VG Data Systems - Minichrom v1.66

INJECTION REPORT

jection C: <PESTEPA> 4 FLO1012,2,1

000908

Acquired on 12-Oct-95 at 08:53:11
Modified on 12-Oct-95 at 09:57:28
Reported on 12-Oct-95 at 09:57:50

ANALYSIS INFORMATION

Analysis ID.....:
Analyst name.....: DLP
Comment.....: INST ID: HP2R, COL TYPE: RTX-1701 ID: 0.53mm, INJ: 2ul
Number of samples.: 8
Calibration file..: 0926CAL Last modified on 12-Oct-95 at 09:57:26
Method file.....: PEST2R Last modified on 12-Oct-95 at 09:55:16
Method title.....: PESTICIDES/PCB'S BY OLM01.8

SAMPLE INFORMATION

Sample name.....: TCP 0.05
Sample ID.....: EPA1-3-A
Sample type.....: Sample
Sample amount.....: 1.0000
Number of injections.....: 1
Bottle Number.....: 3

er factors:
EXTRACTION FACTOR.....: 1.0000
DILUTION FACTOR.....: 1.0000
ng ADJUSTMENT.....: 1.0000

PEAK INFORMATION

Peak	RT mins	Area uVs	ug/L	Peak name
1	0.849	444312	0.0272	
2	1.307	399868	0.0244	
3	1.427	443352	0.0271	
4	4.720	343963	0.0210	
5	5.013	76751	4.6912E-003	
6	5.938	27212	1.6633E-003	
7	11.200	6279	3.8382E-004	
8	11.733	28775	1.7588E-003	
9	12.036	34676	2.1195E-003	
10	12.671	13374	8.1746E-004	
11	15.053	3015	1.8425E-004	
12	15.689	4832	2.9534E-004	ENDOSULFAN II
13	16.102	17097	1.0450E-003	
14	19.231	100122	6.1197E-003	
Total		1943628	0.1188	
esidual		0	0.0000	

5% = 17198

VG Data Systems - Minichrom v1.66

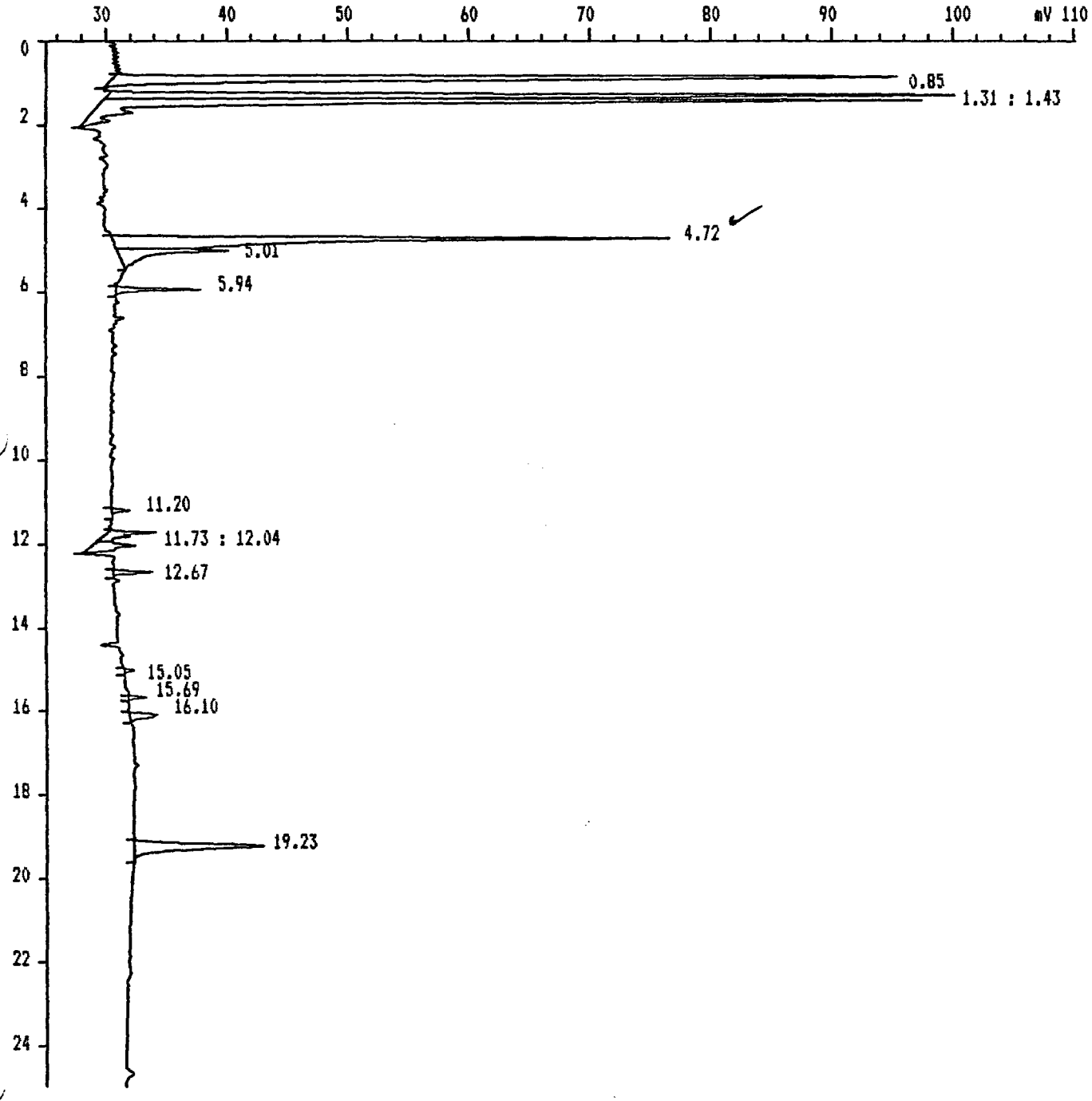
LONG PLOT

Injection C: <PESTEPA> 4 FLO1012,2,1

000909

Sample name.....: TCP 0.05
Sample ID.....: EPA1-3-A
INST: HP2R, COL: RTX-1701, 0.53mm ID, 2ul INJ

Acquired on 12-Oct-95 at 08:53:11
Reported on 12-Oct-95 at 09:20:41



BOOKMARK

VI. SDG FILE PURGE DOCUMENTS

METHOD			
		PEST • PCB	OTHER
CONT. EX.			
SEP-F			
SONC.	✓		

☐ RUSH ☐ REEXTRACT ☐ TCLP ☐ DIOXIN

SAMPLE EXTRACTION LOG

AATSLA

American Analytical & Technical Services, Inc.
11950 Industriplex Blvd. • Baton Rouge, LA 70809

CLIENT: EPA DATE RECEIVED: 03-28-96

CASE: #24517 EXTRACT DATE: 3-30-96

SAMPLE ID (EPISODE #)	CLIENT ID	MATRIX • LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV • P	FIN PROCESS VOLUME	SCREEN Y/N	MS SV • P	SURR SV • P	BASE pH CONFIRMATION	ACID pH CONFIRMATION	COMMENTS
				%	g	(g) • mL	mL	mL	mL	mL	mL	mL	mL		µL	µL			
M1B0330-E	SBLK	S				30.00		10	50				0.5			500			
M1B0330-F	↓					30.00		10	50				0.5			500			
15411-01	FE500					30.01		10	50				0.5			500			
15411-02	FER94					30.00		10	50				0.5			500			MS 517
15411-03	FER95					30.02		10	50				0.5			500			
15411-04	FER97					30.00		10	50				0.5			500			
15411-05	FER98					30.04		10	50				0.5			500			
15411-06	FER99					30.03		10	50				0.5			500			
15411-07	FER99 MS					30.00		10	50				0.5		500	500			
15411-08	FER99 MSD					30.01		10	50				0.5		500	500			
15427-01	FER34					30.00		10	50				0.5			500			
15427-02	FER35					30.02		10	50				0.5			500			
15427-03	FER39					30.00		10	50				0.5			500			
15427-04	FER40					30.02		10	50				0.5			500			
15427-05	FER41					30.01		10	50				0.5			500			

INITIALS		
WEIGHING: LAD	EXTRACTION: LAD	
CLEANUP:	KD: LAD	
BLOWDOWN: LAD		
SURROG. SPIKER: LAD	VERIFIER:	
MATRIX SPIKER: LAD	VERIFIER:	
SUBMITTED BY: LAD	REVIEWED BY:	

ID NUMBERS
FLORISIL CARTRIDGE #:
GPC COLUMN #:2 04-01-96
SURROGATES ID CONC #: S-96-082 100/150ug/ml
MATRIX SPIKE SOL ID/CONC #(S): S-96-342 100/400ug/ml
MISC:

COMMENTS
CH_2Cl_2 # BM 036
Acetone #962995 (Fisher)

[EX013-0393-01]

№ 14411

000910

METHOD			
		PEST • PCB	OTHER
CONT. EX.			
SEP-F			
SONC.	✓		

☐ RUSH ☐ REEXTRACT ☐ TCLP ☐ DIOXIN

SAMPLE EXTRACTION LOG

AATSLA

American Analytical & Technical Services, Inc.
11950 Industriplex Blvd. • Baton Rouge, LA 70809

CLIENT: EPA DATE RECEIVED: 3-28-96

CASE: EXTRACT DATE: 3-30-96

SAMPLE ID (EPISODE #)	CLIENT ID	MATRIX • LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV • P	FIN PROCESS VOLUME	SCREEN Y/N	MS SV • P	SURR SV • P	BASE pH CONFIRMATION	ACID pH CONFIRMATION	COMMENTS
				%	g	g • mL	mL	mL	mL	mL	mL	mL	mL		µL	µL			
15427-06	FER90	S				30.00	~~10~~ 1.0	10	50				0.5			500			
15427-07	FER91					30.02	~~10~~ 1.0	10	50				0.5			500			MS 517
~~15427-08~~						~~30.03~~		Lost on GPC								~~500~~			
~~15427-09~~						~~30.00~~		Lost on GPC								~~500~~			
GPC BLKA	04-01-96	CH_2Cl_2				—		10	50				0.5			—			
GPC BLKB	04-01-96	CH_2Cl_2				—		10	50				0.5			—			

LAO
3/30/96

INITIALS		ID NUMBERS	COMMENTS
WEIGHING: LAO	EXTRACTION: LAO	FLORISIL CARTRIDGE #:	
CLEANUP:	KD: LAO	GPC COLUMN #: 04-01-96	CH_2Cl_2 # BM 0836
BLOWDOWN: LAO		SURROGATES ID CONC #: S-96-082 100/150ng/ml	Acetone # 96295.5 (Fisher)
SURROG. SPIKER: LAO	VERIFIER: PC	MATRIX SPIKE SOL ID/CONC #(S):	
MATRIX SPIKER:	VERIFIER:		
SUBMITTED BY:	REVIEWED BY: P Case 04-03-96	MISC:	

[EX013-0393-01]

№ 14412

000947

SAMPLE EXTRACTION LOG

AATSLA
American Analytical & Technical Services, Inc.
11950 Industriplex Blvd. • Baton Rouge, LA 70809

METHOD		PEST • PCB	OTHER
CONT. EX.			
SEP-F			
SONC.	✓		

☐ RUSH ☐ REEXTRACT ☐ TCLP ☐ DIOXIN

CLIENT: EPA DATE RECEIVED: 03-28-96

CASE: #24517 EXTRACT DATE: 04-02-96

SAMPLE ID (EPISODE #)	CLIENT ID	MATRIX • LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV • P	FIN PROCESS VOLUME	SCREEN Y/N	MS SV • P	SURR SV • P	BASE DH CONFIRMATION	ACID DH CONFIRMATION	COMMENTS
				%	g	g • mL	mL	mL	mL	mL	mL	mL	mL		µL	µL			
m/B0402-A	SBLK	S				30.00		10	50				0.5			500			
15427.08	FER92					30.00		10	50				0.5			500			MS 517
15427.09	FER93					30.00		10	50				0.5			500			
GPC BLK A	04-02-96	CH_2Cl_2				—		10	50				0.5			~~500~~ LAO µL			
GPC BLK B	04-02-96	CH_2Cl_2				—		10	50				0.5			~~500~~ LAO µL			

LAO
4-2-96

INITIALS		
WEIGHING:	LAO	EXTRACTION: LAO
CLEANUP:		KD: LAO
BLOWDOWN:	LAO	
SURROG. SPIKER:	LAO	VERIFIER: PC
MATRIX SPIKER:		VERIFIER:
SUBMITTED BY:		REVIEWED BY: P.Case 04-03-96

ID NUMBERS
FLORISIL CARTRIDGE #:
GPC COLUMN #: 2 04-02-96
SURROGATES ID CONC #: S-96-082 100/150 ug/mL
MATRIX SPIKE SOL ID/CONC #(S):
MISC:

COMMENTS
CH_2Cl_2 BM036
Acetone #962995

[EX013-0393-01]

№ 14418

000912

METHOD		PEST • PCB	OTHER
CONT. EX.		✓	
SEP-F			
SONC.			

☐ RUSH ☐ REEXTRACT ☐ TCLP ☑ DIOXIN

SAMPLE EXTRACTION LOG

AATSLA
American Analytical & Technical Services, Inc.
11950 Industriplex Blvd. • Baton Rouge, LA 70809

CLIENT: USEPA DATE RECEIVED: 3/28-3/29
CASE: 24517 EXTRACT DATE: 3/30/96

SAMPLE ID (EPISODE #)	CLIENT ID	MATRIX • LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV • P	FIN PROCESS VOLUME	SCREEN YN	MS SV • P	SURR SV • P	BASE pH CONFIRMATION	ACID pH CONFIRMATION	COMMENTS
				%	g	g • mL	mL	mL	mL	mL	mL	mL	mL		µL	µL			
M/B0330G	SBLK	S				30.00	10		5	1			1			2000			GC817
H	↓					30.00	10		5	1			1			2000			
LCS0330S	SLCS					30.00	10		5	1			1		1000	2000			
6	↓					30.00	10		5	1			1		1000	2000			
15411.01	FE500		7.91			30.01	10		5	1			1			2000			
.02	FER94		7.97			30.00	10		5	1			1			2000			
.03	FER95		7.03			30.00	10		5	1			1			2000			
.04	FER97		7.70			30.00	10		5	1			1			2000			
.05	FER98		8.06			30.00	10		5	1			1			2000			
.06	FER99		8.04			30.01	10		5	1			1			2000			
.07	FER99ms					30.02	10		5	1			1		1000	2000			
.08	FER99msd	↓	↓			30.00	10	↓	5	1	↓	↓	1	↓	1000	2000	↓	↓	
GPC BLK#1	~~4/5/96~~ DB 4/13/96																		
GPC BLK#2	4/13/96																		

INITIALS	
WEIGHING: DB	EXTRACTION: DB
CLEANUP: DB	KD: DB
BLOWDOWN: DB	
SURROG. SPIKER: DB	VERIFIER: PC.
MATRIX SPIKER: DB	VERIFIER: PC.
SUBMITTED BY: D Bessie 4/15/96	REVIEWED BY: P. Case 4-15-96

ID NUMBERS
FLORISIL CARTRIDGE #: 942358
GPC COLUMN #: GPC #1
SURROGATES ID CONC #: EPA 1-4-A 12/8/95 DP 0.2ug/mL
MATRIX SPIKE SOL ID/CONC #(S): EPA 1-5-A 2/1/96 gh 0.50/1.0ug/mL
MISC:

COMMENTS
GC down - GPC on 4/13/96 DB 4/14/96

[EX013-0393-01]

1 of 2

Herkimer BL459

CH_2Cl_2 - BM036
acetone -
acetone (florisil) - 2435 KMTG

№ 14222

000913

	THOD PEST • PCB	OTHER
CONT. EX.		
SEP-F		
SONC.	✓	

☐ RUSH ☐ REEXTRACT ☐ TCLP ☐ DIOXIN

SAMPLE EXTRACTION LOG

AATSLA

American Analytical & Technical Services, Inc.
11950 Industriplex Blvd. • Baton Rouge, LA 70809

CLIENT: USEPA DATE RECEIVED: 3/29/96

CASE: 24517 EXTRACT DATE: 3/30/96

SAMPLE ID (EPISODE #)	CLIENT ID	MATRIX • LEVEL	SAMPLE pH	% MOISTURE	DRY WEIGHT	AMOUNT EXTRACTED	EXTRACTED VOLUME	GPC VOLUME	GPC ELUTE VOL	FLORISIL VOL CONC	FLORISIL FIN VOL CONC	VOL SV • P	FIN PROCESS VOLUME	SCREEN Y/N	MS SV • P	SURR SV • P	BASE pH CONFIRMATION	ACID pH CONFIRMATION	COMMENTS
				%	g	g • mL	mL	mL	mL	mL	mL	mL	mL		µL	µL			
15427.01	FER34	S	7.42			30.00	10		5		1		1			2000			GC817
.02	FER35		7.82			30.01	10		5		1		1			2000			
.03	FER39		7.59			30.00	10		5		1		1			2000			
.04	FER40		7.87			30.00	10		5		1		1			2000			
.05	FER41		7.61			30.02	10		5		1		1			2000			
.06	FER90		7.89			30.04	10		5		1		1			2000			
.07	FER91		7.99			30.01	10		5		1		1			2000			
.08	FER92		7.85			30.00	10		5		1		1			2000			
.09	FER93		8.08			30.00	10		5		1		1			2000			

3/30/96

000914

INITIALS			
WEIGHING:	DB	EXTRACTION:	DB
CLEANUP:	DB	KD:	DB
BLOWDOWN:	DB		
SURROG. SPIKER:	DB	VERIFIER:	PC.
MATRIX SPIKER:	DB	VERIFIER:	PC.
SUBMITTED BY:	DB	REVIEWED BY:	P.Case
	4/15/96		4-15-96

ID NUMBERS	
FLORISIL CARTRIDGE #:	942358
GPC COLUMN #:	GPC #1
SURROGATES ID CONC #:	EPA 1-4-A 12/8/95 DP 8.2005
MATRIX SPIKE SOL ID/CONC #(S):	EPA 1-5-A 2/1/96 DP
	0.50/1.04 g/mL
MISC:	

CH_2Cl_2 — BN036
Hexane — BL459

COMMENTS
GC down - GPC on 4/13/96

[EX013-0393-01]

(2892) acetone (florisil) No 2835 14224 KM 10
Acetone -

000915

GEL PERMEATION CHROMATOGRAPHY

AATS/LA

All logbook pages are copies
Originals retained in
Bound logbooks at RD
AATS/LA 050196
Pages 000915 To 000939

GPC INST:	MARATHON - HIGH PRESSURE
COLUMN ID:	#2
CLIENT:	EPA
FRACTION:	BNA/PEST
PROTOCOL:	OLM03.1
CYCLE:	30 minutes
CASE NUMBER:	

OPERATOR	DATE	TIME	POSITION #	AATS/LA SAMPLE I.D.
LAO	4/1/96	02:20:50	874	GPC Cal. Std
		05:02:27	879	GPC BLK A
		05:30:39	880	GPC BLK B
		08:05:20	881	M/B0330-E
		08:36:11	882	M/B0330-F
		09:06:52	883	LAO 4/1 ~~M/B0~~ 15411.01
		09:37:05	884	15411.02
		10:08:16	885	15411.03
		10:38:59	886	15411.04
		11:09:48	887	15411.05
		11:40:20	888	15411.06
		12:11:04	889	15411.07 (ms)
		12:41:47	890	15411.08 (msd)
		13:12:29	891	15427.01
		13:43:11	892	15427.02
		14:10:50	893	15427.03
		14:44:05	894	15427.04
		15:15:17	895	15427.05
		15:45:59	896	15427.06
		16:16:41	897	15427.07
	4-2-96	06:51:40	900	GPC Cal. Std
		08:26:07	905	GPC BLK A
		08:56:49	906	GPC BLK B
		09:50:41	907	M/B0402-A
		10:24:22	908	15427.08
		10:55:05	909	15427.09

COMPOUND	INITIAL R.T.	FINAL R.T.	% DIFFERENCE
PHTHALATE			
METHOXYCHLOR			
PERYLENE			

000916

GEL PERMEATION CHROMATOGRAPHY

AATS/LA

TM

31-20-10

GPC INST:	ABC AUTOPREP 1002A
COLUMN ID:	GPC #1
CLIENT:	EPA
FRACTION:	BNA/PEST
PROTOCOL:	OLM03.1
CYCLE:	60 minutes
CASE NUMBER:	

OPERATOR	DATE	TIME	POSITION #	AATS/LA SAMPLE I.D. E-96-
JJB	3/22/96		1	GPC cal std 3/21/96
			2	GPC Blk #1
			3	Test SPIKE (EPA 1-5-A)
			4	GPC Aroclor (EPA 1-33-A) 10/24
				3/22/96

COMPOUND	INITIAL R.T.	FINAL R.T.	% DIFFERENCE
PHTHALATE			
METHOXYCHLOR			
PERYLENE			

GEL PERMEATION CHROMATOGRAPHY

AATS/LA ™

000917

GPC INST:	ABC AUTOPREP 1002A
COLUMN ID:	GPC #1
CLIENT:	EPA
FRACTION:	ENA/PEST
PROTOCOL:	OLM03.1
CYCLE:	60 minutes
CASE NUMBER:	

31-20-10

OPERATOR	DATE	TIME	POSITION #	AATS/LA SAMPLE I.D.
[illegible]	4/12/96		1	Pest Spike (EPA 1-5-A)
			2	GPC Archive SPIKE
			3	GPC BLK #1

4/12/96

COMPOUND	INITIAL R.T.	FINAL R.T.	% DIFFERENCE
PHTHALATE			
METHOXYCHLOR			
PERYLENE			

000918

GEL PERMEATION CHROMATOGRAPHY

AATS/LA ™

GPC INST:	ABC AUTOPREP 1002A
COLUMN ID:	GPC Blk #1
CLIENT:	EPA
FRACTION:	ENA/PEST
PROTOCOL:	OLM03.1
CYCLE:	60 minutes
CASE NUMBER:	

OPERATOR	DATE	TIME	POSITION #	AATS/LA SAMPLE I.D.
dlb	4/13/96		1	GPC Blk #1
			2	GPC Blk #2
			3	m/Bg (-3-30-96)
			4	m/BH (3-30-96)
			5	LCS 5 (3-30-96)
			6	LCS 6 (3-30-96)
			7	154.11.01
			8	.02
			9	.03
			10	.04
			11	.05
			12	.06
			13	.07 ms
			14	.08 msd
			15	15427.01
			16	.02
			17	.03
			18	.04
			19	.05
			20	.06
			21	.07
			22	.08
			23	.09

COMPOUND	INITIAL R.T.	FINAL R.T.	% DIFFERENCE
PHTHALATE			
METHOXYCHLOR			
PERYLENE			

VOLATILES GC/MS RUN LOG AATS/LA

56

000919

Heated

TM

TUNE FILE ID: BFB.U

METHOD FILES BFB624A \ OLM03_S

INSTRUMENT: HP1

DATE 3-21-96

CB/ID FILE ID: C: \ 032196A

ARCHIVE TAPE #: VOL. #

Time	File	AATS/LA Sample ID	Client ID	Vol.	IS Area	Surr. Rec.	Lin. Chk.	Comments	OK/RR
1049	ABFB 0321	V-96-423	BFB	1ul				50 ng m Cal	
1126	B2625	442	VSTD050	5g					
1152	26	445	100						
1218	27	446	200						ok
1245	28	443	010						
1311	29	444	020						ok
1338	30	442	050						ok
1404	31	445	100						ok
1431	32	443	010						ok
1457	33	446	200						
1537	BBFB 0321	V-96-423	BFB	1ul				50 ng mcal. New Clock CC	ok
1559	B2634	-442	VSTD050	5g					ok
1637	35	450	VBLK15		✓	✓	✓		ok
1714	36	15250.01	USEPA EAPN6	5g	✓	OK	✓	J032296 22	OK ~~RE~~
1744	37	.02	EAPN7		✓	✓	✓	23	ok
1815	38	.03	EAP N8		X	OK ~~X~~	✓	J032296 24	RE 1st
1846	39	15182.02	PCSG B-136/10-11.4	0.5	✓	✓	x	30	RE 2½g
1916	B2640	15182.05	B-138/10-11.1		✓	✓	✓	acet = 129 31	ok
1946	41	15182.02	PCSG B-136/10-11.4	2.5	✓	✓	x	1 30	RE 5g
2016	42	15231.03	B-53-Iw-2-4.6	0.5	✓	X	✓	Bz = 5 no (LCS) QA/QC 32	OK
2048	43		VIBLK15	5g	✓	✓	✓	Sparger 32 ~~30~~ 32	OK

USEPA
PCSG

J032196

Judy Resnick
Analyst Signature

VOLATILES GC/MS RUN LOG AATS/LA

72

000920

TM

TUNE FILE ID: BFB.U

METHOD FILES BFB624A \ OLM03-S

INSTRUMENT: HP1

DATE 3-30-96

CB/ID FILE ID: C:\033096A

ARCHIVE TAPE #: VOL. #

Time	File	AATS/LA Sample ID	Client ID	Vol.	IS Area	Surr. Rec.	Lin. Chk.	Comments	OK/RR
0723	ABFB 0330	V-96-423	BFB	1 ul				50ng m cal.	OK
0740	B2831	V-96-442	VSTD050	5g					OK
0807	32	↓	↓	↓					—
0835	33	450	VBLR 1 D	5g	✓	✓	✗	Chro	RE
0906	34	↓	↓	↓	✓	✓	✓		OK
0943	35	EPA 15005.05	BHR 87	1g	✓	✓	✗	4meth 2pent = 21	RE 39.
1019	36	.05	BHR 87	3g	✓	✓	✗	21	RE 59
1049	37	.05	BHR 87	5g	✓	✓	✓	21	OK
1120	38	.05	HS		✓	✓	✓	22	OK
1154	39	.05	HSD	↓	✓	✓	✓	23	OK
1225	B2840	BHR 85	VHBLR 1D	5g	✓	✓	✓	18	OK
1256	41	EPA 15411.01	FES00	5g	✓	✓	✓	Aniline 19	RE
1326	42	02	FER94		✓	✓	✓	Aniline 20	RE
1356	43	.03	95		✓	✓	✓	21	OK
1427	44	.04	97		✓	✓	✓	Chro. J033096 22	RE ~~OK~~
1457	B2845	05	98		✓	✓	✓	Aniline 23	RE
1527	46	.06	99		✓	✓	✓	Aniline 24	RE
1557	47	.07	99HS		✓	✓	✓	25	OK
1628	48	.08	99HSD	↓	✓	✓	✓	26	OK
1658	49	.01	FES00		✓	✓	✓	19	OK
1729	50	.02	FER 94	↓	✓	✓	✓	20	OK

B = 10
T = 22

Judy Resnick
Analyst Signature

VOLATILES GC/MS RUN LOG AATS/LA

OLM03.5 03/21/96 -73

000921

TM

TUNE FILE ID: BFB.U METHOD FILES BFB624A \ OLM03S

INSTRUMENT: HP1 DATE 3-30-96

CB/D FILE ID: C:\033096 ARCHIVE TAPE #: VOL. #

1923 Time	File	AATS/LA Sample ID	Client ID	Vol.	IS Area	Surr. Rec.	Lin. Chk.	Comments	OK/ RR
1759	B2851	15411.04	FER 97	5g	✓	✓	✓	22	OK
1830	52	.05	98		✓	✓	✓	23	OK
1856	53	.06	99		✓	✓	✓	23	OK
1923	54	15427.01	FER 34	5g	✓	✓	✓	24	OK
1949	B2855	02	35		✓	✓	✓	25	—
2015	56	Blk Sponge	#26	5mL	✓	✓	✓	26 OK	—
2046	57	03-22-96	LAB Fridge		✓	✓	✓	1	OK
2114	58	03-22-96	R-3 Fridge		✓	✓	✓	2	OK
2147	59	Blk Sponge	#29		✓	✓	✓	29	OK
2218	B2860		#30		✓	✓	✓	30	OK
2249	61		#31		✓	✓	✓	31	OK
2319	62		#32		✓	✓	✓	32	OK

Judy Resnick
Analyst Signature

-131

VOLATILES GC/MS RUN LOG AATS/LA

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000922

TM

TUNE FILE ID: BFB.U

METHOD FILES BFB624A \ OLM03-S

INSTRUMENT: HP1

DATE 3-31-96

CB/ID FILE ID: C:\033196A

ARCHIVE TAPE #: VOL. #

1841 Time	File	AATS/LA Sample ID	Client ID	Vol.	IS Area	Surr. Rec.	Lin. Chk.	Comments	OK/RR
0641	ABFB 0331	V-96-423	BFB	1uL					OK
0657	B2863	-442	VSTD 050	5g	-	-	-	17	RE
0724	64				-	-	-	17	RE
0751	65							17	OK
0827	66	-446	200					29	OK
0853	67	-445	100					30	OK
0920	68	-444	020					31	OK
0947 ~~0920~~	69	-443	010					32	OK
1014	B2870	-450	VBLK 1E		✓	✓ ~~X~~	✓	J033196 Chw 18	OK ~~RE~~
1113	71	-			✓	✓	✓	18	OK
1144	72	EPA 15427.02	FER 35	5g	✓	✓	✓	19	OK
1215	73	.03	39		✓	✓	✓	20	OK
1246	74	.04	40		X	✓	✓	21 J033196	1st ~~RE~~ OK
1317	B2875	.05	41		✓	✓	✓	22	OK
1348	76	.06	90		X	X	✓	23	RE
1418	77	.07	91		✓	X	✓	24	RE
1449	78	.08	92		✓	✓	✓	25	OK
1519	79	.09	93		✓	✓	✓	26	OK
1617	B2880	.04	J033196 40RE ~~40RE~~	5g	✓	✓	✓	22	2nd OK
1648	81	.06	J033196 90 RE		✓	✓	✓	23	OK
1714	82	.07	J033196 91 RE		✓	✓	✓	24	OK
1740	83	FER 94	VHBLK	5g	✓	✓	✓	18	OK

033196

B=8
T=12

Judy Resnick
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000923

BOOK 12 PAGE 175

CLIENT: USEPA DATE (MO/DAY/YR): 033196

CASE: INSTRUMENT ID (A,B,C, etc.): HP6

SAS:

METHOD NO: OLM03-S(1)(2)(3) COLUMN NO: XTI-5 0.25 # 84802

EMV: 2212 TUNE FILE ID: DFTPP / DFTPP_CF

OTHER: DFTPPCLP

TIME	INIT	CLIENT SAMPLE ID	AATS/LA LAB ID	FILE ID	SAMPLE AMOUNT wt	vol	inj	DIL. FACT.	AUTO INJ POS	ARCH TAPE NO	RUN NO
1238	✓	DFTPP	S-95-308	77310	50ng		2uL		1		1
1250	✓	SSTD050	S-96-090	11					2		2
1320	✓	020	-094	12					3		3
1349	✓	080	-093	13					4		4
1417	✓	120	-092	14					5		5
1446	✓	160	-091	15					6		6
1600		USEPA EAPR1 Ext 032396	15250.16	16	30.0g	0.50			7		7
1632	Run 10X	EAPR4 Ext 031996	.09	17					8		8
1705	✓			18				10X	9		9
1735		EAPR6	15250.11	19					10		10
1807			.11	20				2.5X	11		11
1838	✓	EAPR7	.12	21					12		12
1911	✓		.12 ~~.13~~	22				2X	13		13
1942	✓	EAPR8	.13	23					14		14
2014	✓		.13	24				5X			15

A 196

[signature]
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000924

BOOK 12 PAGE 176

(Check appropriate box. All major maintenance should be recorded in maintenance logbook.)

ROUTINE MAINTENANCE: ☒ MAJOR MAINTENANCE: ☐ in Book___ Page___.

DATE: 033196 TIME: _____

COMMENTS: _____

INTERNAL STANDARD AREAS

Cpd.	IS #1	IS #2	IS #3	IS #4	IS #5	IS #6	
Std. RT	5·68	7·21	9·36	11·48	15·63	17·74	Run # =
NO.	m/z=	m/z=	m/z=	m/z=	m/z=	m/z=	Comment
1	—	—	—	—	—	—	sony encol.
2	130753	343897 393721	214258	265193	126392	88637	A·033196
3	125009	387035	211078	271854	107113	74649	
4	112880	345738	196722	247423	96336	70844	
5	131157	380170	210079	262818	107224	77082	
6	127670	346507	170394	203879	93163	72302	
7	109401	353365	161812	172624	59191	44828	
8	111837	822905	121388	119831	53418	71267	
9	97643	297679	140171	159243	64498	64810	
10	91888	250023	96864	99365	45091	61076	
11	85644	823299	95593	115531	54445	69754	
12	107904	279584	118773	131176	57863	81021	
13	110625	304825	135574	175205	77719	97190	
14	97597	300938	122361	116727	82016	55099	
15	112342	361994	159278	148696	81742	57530	

Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000925

BOOK 12 PAGE 191

CLIENT: USEPA DATE (MO/DAY/YR): 040496

CASE: INSTRUMENT ID (A,B,C, etc.): HP6

SAS:

METHOD NO: OLM03-S(1)(2)(3) COLUMN NO: XTI-5 0.25 #84802

EMV: 2282 TUNE FILE ID: DFTPP / DFTPP_CF

OTHER: DFTPPCLP

TIME	INIT	CLIENT SAMPLE ID	AATS/LA LAB ID	FILE ID	SAMPLE AMOUNT wt	vol	inj	DIL. FACT.	AUTO INJ POS	ARCH TAPE NO	RUN NO
1625 ~~1439~~	✓	DFTPP	S-95-308	77411 ~~12~~	60ng		2uL		1		1
1715	X	SSTD050	S-96-090	12 ~~13~~					2		2
1750	✓		-090	13 ~~14~~					3		3
1822	✓	SBLK6Q Ext 032896	MB-D	77414	1000	1.0			4		4
1852	✓	USEPA FER43	15410.01	15					5		5
1922	R.R	MS	.02	16					6		6
1952	R.R	MSD	.03	17					7		7
2023	✓	FER57	.04	18					8		8
2053	✓	58	.05	19					9		9
2124	✓	61	.06	21 ~~20~~					10		10
2154	✓	62	.07	22					11		11
2225	✓	SBLK6R Ext 033096	MB-E	23	30.0g	0.5			12		12
2255	✓	USEPA FES00	15411.01	24					13		13
2326	✓	FER94	.02	25					14		14
2356	✓	95	.03	26					15		15

R 40596

[signature]
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000926

BOOK 12 PAGE 192

(Check appropriate box. All major maintenance should be recorded in maintenance logbook.)

ROUTINE MAINTENANCE: ☒ MAJOR MAINTENANCE: ☐ In Book___Page___.

DATE: 040496 TIME: _____

COMMENTS: _____

INTERNAL STANDARD AREAS

Cpd.	IS #1	IS #2	IS #3	IS #4	IS #5	IS #6	
Std. RT	5.63	7.16	9.30	11.42	15.58	17.69	Run # =
NO.	m/z=	m/z=	m/z=	m/z=	m/z=	m/z=	Comment
1	—	—	—	—	—	—	Sony no col.
2		C.C Failed					
3	67676	198547	92655	108739	82765	91714	
4	76838	246510	113318	180030	74379	70361	
5	72173	225387	98118	104710	66786	69963	
6	77418	225735	103146	106666	69064	70854	
7	70860	199618	97920	110856	92692	91673	
8	81734	247107	113671	129552	91051	88767	
9	87089	274130	122228	137173	93367	89818	
10	97412	303249	135615	145967	85496	83150	
11	65666	197757	83446	92030	75433	79762	
12	80459	252794	120551	126457	66726	65045	
13	67357	203341	90466	100382	64409	60266	
14	78559	220910	96264	104268	71877	66145	
15	83904	253854	119815	129224	84443	78320	

D. L. Mon
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000927

BOOK 12 PAGE 193

CLIENT: USEPA DATE (MO/DAY/YR): 040496

CASE: INSTRUMENT ID (A,B,C, etc.): HP6

SAS:

METHOD NO: OLM03-S(1)(2)(3) COLUMN NO: XTI-5 0.25 #84802

EMV: 2282 TUNE FILE ID: (DFTPP) DFTPP_CF

OTHER: DFTPPCLP

TIME	INIT	CLIENT SAMPLE ID	AATS/LA LAB ID	FILE ID	SAMPLE AMOUNT wt	SAMPLE AMOUNT vol	SAMPLE AMOUNT inj	DIL. FACT.	AUTO INJ POS	ARCH TAPE NO	RUN NO
0026	✓	USEPA Ext FER97 033096	15411-04 ~~77427~~	77427	30.0g	1.0	2µL		16		1
0057	✓	98	15411-05	28					17		2
0127	✓	99	.06	29					18		3
0158	✓	99 MS	.07	30					19		4
0228	✓	99 MSD	.08	31					20		5
0259	✓	34	15427-01	32					21		6
											7
											8
											9
											10
											11
											12
											13
											14
											15

Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

TM

000928

BOOK 12 PAGE 194

(Check appropriate box. All major maintenance should be recorded in maintenance logbook.)

ROUTINE MAINTENANCE: ☒ MAJOR MAINTENANCE: ☐ In Book____ Page____.

DATE: 041496 TIME: _____

COMMENTS: _____

INTERNAL STANDARD AREAS

Cpd.	IS #1	IS #2	IS #3	IS #4	IS #5	IS #6	
Std. RT	5.63 / 67676	7.16 / 198547	9.30 / 92665	11.42 / 108739	15.58 / 82765	17.69 / 91714	Run # =
NO.	m/z=	m/z=	m/z=	m/z=	m/z=	m/z=	Comment
1	67874	209987	100737	119692	81258	66871	
2	65405	193111	85286	90595	68179	65235	
3	76088	226571	99023	105478	68228	65697	
4	63268	176043	85109	94306	68208	64139	
5	68016	186843	88974	95892	69641	64007	
6	83412	246790	109656	122242	78468	69442	
7							
8							
9							
10							
11							
12							
13							
14							
15							

Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000929 BOOK 12 PAGE 194

CLIENT: USEPA DATE (MO/DAY/YR): 040596

CASE: INSTRUMENT ID (A,B,C, etc.): HP6

SAS:

METHOD NO: OLM03-S (1)(2)(3) COLUMN NO: XTI-5 0.25 #84802

EMV: 2282 TUNE FILE ID: DFTPP DFTPP_CF

OTHER: DFTPPCLP

TIME	INIT	CLIENT SAMPLE ID	AATS/LA LAB ID	FILE ID	SAMPLE AMOUNT wt	SAMPLE AMOUNT vol	SAMPLE AMOUNT inj	DIL. FACT.	AUTO INJ POS	ARCH TAPE NO	RUN NO
1309	✓	DFTPP	S-96-398	77433	50ng		2uL		1		1
1321	✓	STD050	S-96-090	34					2		2
Did not	R.R	GBCBLK-A040196	GBC-A	35	10	0.5			3		3
inject	R.R	↓ 040296	GBC-A	36	↓				4		4
1456	R.R	SBLK65 040496 Ext	MB-A	37	30.0g				5		5
1526	✓	USEPA FE600 Ext 032096	15411-01	38					6		6
1600	✓	FER3935	1542702	39 245 39					7		7
1630	R.R	4039	.03	40 39 40					8		8
1701	R.R ✓	4040	.04	41 40 41					9		9
1732	✓	4041	.05	42					10		10
1802	Rerun by	90	.06	43					11		11
1833	✓	91	.07	44					12		12
		92	.08	45					13		13
	-	93	.09	46					14		14
		43	.04	47					15		15

D. M. Rau
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000930

BOOK 12 PAGE 195

(Check appropriate box. All major maintenance should be recorded in maintenance logbook.)

ROUTINE MAINTENANCE: ☒ MAJOR MAINTENANCE: ☐ In Book____Page____.

DATE: 040596 TIME: _____

COMMENTS: _____

INTERNAL STANDARD AREAS

Cpd.	IS #1	IS #2	IS #3	IS #4	IS #5	IS #6	
Std. RT	5.61	7.15	9.29	11.40	15.56	17.68	Run # =
NO.	m/z=	m/z=	m/z=	m/z=	m/z=	m/z=	Comment
1	—	—	—	—	—	—	50 ng on col
2	37142	102543	50623	69129	70637	19564	
3	—	—	—	—	—	—	
4	—	—	—	—	—	—	
5	72483	219768	107357	118912	78018	75526	
6	52281	144856	65957	78017	60198	58481	
7	62029	184286	85698	99469	65685	59194	
8	93291	287119	127938	130968	68895	63756	
9	53257 ~~63330~~	139645 ~~139667~~	61987	79516	107305 ~~107015~~	65002 ~~22155~~	A-041196
10	54452	158548	79457	100772	68489	79051	
11	63214	180656	76386	76233	62757	104701	
12	42041	123078	58668	72387	48512	58189	
13							
14							
15							

Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000931

BOOK 12 PAGE 203

CLIENT: USEPA DATE (MO/DAY/YR): 041096

CASE: INSTRUMENT ID (A,B,C, etc.): HP6

SAS:

METHOD NO: OLM03-S(1)(2)(3) COLUMN NO: XTI-5 0.25 # 84802

EMV: 2282 TUNE FILE ID: DFTPP / DFTPP_CF

OTHER: DFTPP625

TIME	INIT	CLIENT SAMPLE ID	AATS/LA LAB ID	FILE ID	SAMPLE AMOUNT wt	vol	inj	DIL. FACT.	AUTO INJ POS	ARCH TAPE NO	RUN NO
1100	✓	DFTPP	S-95-308	77490	50ng		2uL		1		1
1147	✓	SSTD050	S96-090	91					2		2
1223	✓	GPCBLK-A 040196	GPC-A	92	10	0.5			3		3
1252	✓	GPCBLK-A 040296	GPC-A	93					4		4
1323	✓	SBLK6U Ext 040296	MB-A	94	30.0g				5		5
1353	✓	USEPA FES00 Ext 033096	15411.01	95					6		6
1423	✓	FER35	15427.00	96					7		7
1619	✓	39	.03	97					8		8
1529	Run 2X	40	.04	98					9		9
1838	✓	41	.05	99					10		10
1908	Run 3X	90	.06	77500					11		11
1938	X	91	.07	01					12		12
2008	✓	FER92 Ext 040296	.08	02					13		13
2038	✓	93	.09	03					14		14
2108	X	SBLK6Y	MB-A	04					15		15

[signature]
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000932

BOOK 12 PAGE 204

(Check appropriate box. All major maintenance should be recorded in maintenance logbook.)

ROUTINE MAINTENANCE: ☒ MAJOR MAINTENANCE: ☐ In Book___Page___.

DATE: 041096 TIME: _____

COMMENTS: _____

INTERNAL STANDARD AREAS

Cpd.	IS #1	IS #2	IS #3	IS #4	IS #5	IS #6	
Std. RT	5.60	7.14	9.28	11.39	15.54	17.66	Run # =
NO.	m/z=	m/z=	m/z=	m/z=	m/z=	m/z=	Comment
1	—	—	—	—	—	—	50ng on col.
2	105718	343794	161887	164579	72966	64438	
3	109749	411917	218754	243138	104083	70350	
4	94947	347044	165021	173134	82142	62604	
5	125914	433251	238744	286520	116342	69811	
6	98447	381180	150835	158314	62331	45682	
7	115120 71425	388580	195263	219100	79537	49767	A-041196
8	71405	229798	107398	125343	61616	59823	
9	72547	202626	77673	82305	109395	76985	
10	61656	201315	98399	109722	51270	64531	
11	64855	218096	96466	90601	67128	136670	
12	47318	157390	72748	90018	44486	58028	
13	57161	187675	90174	110673	52205	60649	
14	60475	189939	93109	113887	58308	70005	
15	52436	162184	78084	95344	50109	60558	

Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

000933 BOOK 12 PAGE 25

CLIENT: USEPA DATE (MO/DAY/YR): 041096

CASE: INSTRUMENT ID (A,B,C, etc.): HP6

SAS:

METHOD NO: OLM03-S(1)(2)(3) COLUMN NO: XTI-5 0.25 #84802

EMV: 2282 TUNE FILE ID: DFTPP / DFTPP_CF

OTHER: DFTPP625

TIME	INIT	CLIENT SAMPLE ID	AATS/LA LAB ID	FILE ID	SAMPLE AMOUNT wt	SAMPLE AMOUNT vol	SAMPLE AMOUNT inj	DIL. FACT.	AUTO INJ POS	ARCH TAPE NO	RUN NO
2138	✓	USEPA EXT FER90 033096	15427.06	77505	30.0g	0.5	2µL	2X	16		1
2210	✓	FER39	.03	77506	30.0g	0.5			17		2
2240	X	40	.04	77507				2X	18		3
2313	X	35	.02	08					19		4
											5
											6
											7
											8
											9
											10
											11
											12
											13
											14
											15

7 11096

A. Nolan
Analyst Signature

SEMIVOLATILE GC/MS RUN LOG AATS/LA

TM

000934

BOOK 12 PAGE 206

(Check appropriate box. All major maintenance should be recorded in maintenance logbook.)

ROUTINE MAINTENANCE: ☐ MAJOR MAINTENANCE: ☐ In Book___Page___.

DATE: 041096 TIME: _____

COMMENTS: _____

INTERNAL STANDARD AREAS

Cpd.	IS #1	IS #2	IS #3	IS #4	IS #5	IS #6	
Std. RT	5.60 / 105718	7.14 / 343794	9.28 / 168287	11.29 / 164579	15.64 / 72966	17.66 / 64438	Run # =
NO.	m/z=	m/z=	m/z=	m/z=	m/z=	m/z=	Comment
1	54991	173738	83544	95662	62698	106757	
2	61934	199197	96397	121691	60513	75083	
3	58194	158 159845	62638	64699	113772	137385	
4	53780	164021	82134	94119	48454	66320	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Analyst Signature

000935

RTX-35

AATSLA

PESTICIDE - PCB
GC RUN LOG

INSTRUMENT 3F/3R
INJ. VOL. 2 uL
METHOD SUBDIRECTORY 3041496

DATE	TIME 3F	TIME 3R	AATS I.D.	EPA I.D.	DATA FILE NAME		COMMENTS	INT.
04/14/96	1306		EPA1-8-A1F	Rex 1F	003 F0201		ok	
	1342		EPA1-9-A1F	Pem 1F	004	0301		
	1455		EPA1-20-A1F	AR1660 1F	006	0401		
	1532		EPA1-22-A1F	AR 1221 1F	007	0501		
	1608		EPA1-24-A1F	AR1232 1F	008	0601		
	1644		EPA1-26-A1F	AR1242 1F	009	0701		
	1721		EPA1-28-A1F	AR 1248 1F	010	0801		
	1757		EPA1-30-A1F	AR1254 1F	011	0901		
	1834		EPA1-32-A1F	TOXAPH 1F	012	1001		
	1910		EPA1-11-A1F	Ind AL 1F	013	1101		
	2059		EPA1-15-A1F	Ind BL 1F	016	1201		
	2212		EPA1-12-A1F	Ind AM 1F	018	1301		
	2325		EPA1-16-A1F	Ind BM 1F	020	1401		
04/15/96	0002		EPA1-13-A1F	Ind AH 1F	021	1501		
	0151		EPA1-17-A1F	Ind BH 1F	024	1601		
	0304		EPA1-7-A1F	PI Blk 1F	026	1701		
	0417		EPA1-9-A2F	Pem 2F	028	1801		
	0529		032196D	PBlk1	030	1901		
	0606		15233.01	X5966	031			
	0642		15233.02	X5970	032			
	0755		EPA1-7-A2F	PI Blk 2F	034			
	0905		EPA1-12-A2F	Ind AM 2F	036			
	1021		EPA1-16-A2F	Ind BM 2F	038			

Verification Signature: [signature]
Date: 4/15/96

0054

Analyst Signature: [signature]
Date: 4/16/96

RTX-35

AATSLA

PESTICIDE - PCB
GC RUN LOG

000936

INSTRUMENT 3F/3R
INJ. VOL. 2 uL
METHOD SUBDIRECTORY 3041596
RTX-35

DATE	TIME 3F	TIME 3R	AATS I.D.	EPA I.D.	DATA FILE NAME	COMMENTS	INT.
04/15/96	1427		032896 F	PBLK1	002F0101		
	1503		032896 G	PBLK1	003		
	1538		033096 G	PBLK2	004		
	1614		033096 H	PBLK2	005		
	1649		15410.01	FER43	006		
	1725		15410.02MS	FER43MS	007		
	1800		15410,03MSD	FER43MSD	008		
	1836		15410.04	FER57	009		
	1911		15410.05	FER58	010		
	1947		EPA1-7-A3F	PIBLK3F	011		
	2058		EPA1-9-A3F	PEM3F	013		
	~~2207~~ 1607	4/18/96	15410.06	FER61	015		
	2244		15410.07	FER62	016		
	2320		15411.01	FES00	017		
	2355		15411.02	FER94	018		
04/16/96	0031		15411.03	FER95	019		
	0106		15411.04	FER97	020		
	0142		15411.05	FER98	021		
	0217		15411.06	FER99	022		
	0253		15411.07MS	FER99MS	023		
	0328		15411.08 MSD	FER99MSD	024		
	0404		GPC BLK 041396	—	025		
	0515		EPA1-7-A4F	PIBLK4F	027		
	0550		EPA1-12-A3F	INDAM3F	028		
	0702		EPA1-16-A3F	INDBM3F	030		

Brian Heystuart
Verification Signature

4/20/96
Date

0055

Deborah L Pike
Analyst Signature

4/19/96
Date

PTX-35 cont. from Pg 58

000937

PESTICIDE - PCB
GC RUN LOG

INSTRUMENT 3F/3R
INJ. VOL. 2 uL
METHOD SUBDIRECTORY 3041596

AATSLA

DATE	TIME 3F	TIME 3R	AATS I.D.	EPA I.D.	DATA FILE NAME	COMMENTS	INT.
04/16/96	0813		15427.01	FER34	032F0101		
	0848		15427.02	FER35	033F0101		
	0923		15427.03	FER39	034		
	0959		15427.05	FER41	035		
	1034		15427.07	FER91	036		
	1110		15427.08	FER92	037		
	1145		15427.09	FER93	038		
	1221		15427.06	FER90	039		
	1256		15427.04	FER40	040		
	1407		HEX		042		
	1443		EPA1-7-A5F	PIBLK5F	043		
	1554		EPA1-9-A4F	PEM4F	045		
	1706					RP 4/25/96	

Grace Stewart
Verification Signature

4/26/96
Date

0059

Analyst Signature

4-25-96
Date

AATSLA

DB-1701

000938

PESTICIDE - PCB
GC RUN LOG

INSTRUMENT 2F/2R
INJ. VOL. 2 uL
METHOD SUBDIRECTORY <Pest EPA>

DATE	TIME Ch 3	TIME ch 4	AATS I.D.	EPA I.D.	DATA FILE NAME		COMMENTS	INT.
04/23/96	1507		EPA1-8-AF1	RESC F1	3 Junkcal	2		
	1624		-9-	PEM		4		
	1741		-20-	AR1660		6		
	1819		-22-	AR1221		7		
	1857		-24-	AR1232		8		
	1935		-26-	AR1242		9		
	2014		-28-	AR1248		10		
	2052		-30-	AR1254		11		
	2130		-32-	TOXAPH		12		
	2208		-11-	INDAL		13		
	2325		-15-	INDBL		15		
04/24/96	0041		-12-	INDAM		17		
	0158		-16-	INDBM		19		
	0314		-13-	INDAH		21		
	0431		-17-	INDBH		23		
	0625	[illegible]	-7 ~~25~~-	PIBLK		26		
	1001		-9-AF2	PEM F2	3 0424SAM	1		
	1118		033096 H	PBLK2		3		
	1156		15411.01	FES00		4		
	1234		15411.02	FER94		5		
	1313		15411.03	FER95		6		
	1351		15411.04	FER97		7	← added by WJT 4/26/96	
	1429		15411.05	FER98		8		
	1507		15411.06	FER99		9		
	1546		15411.07MS	FER99MS		10		
	1647		15411.08MSD	FER99MSD		11		
	1725		EPA1-7-AF2	PIBLKF2		12		
	1842		EPA1-12-AF2	INDAMF2		14		
	1958		EPA1-16-AF2	INDBM F2		16		
	2038		15427.01	FER34	3 0424BSAM	1		
	2116		15427.02	FER35		2		

[signature]
Verification Signature

4/26/96
Date

0043

[signature]
Analyst Signature

4/25/96
Date

AATSLA

000939

PESTICIDE - PCB
GC RUN LOG

INSTRUMENT 2F/2R
INJ. VOL. 2 uL
METHOD SUBDIRECTORY <p.ext EPA>

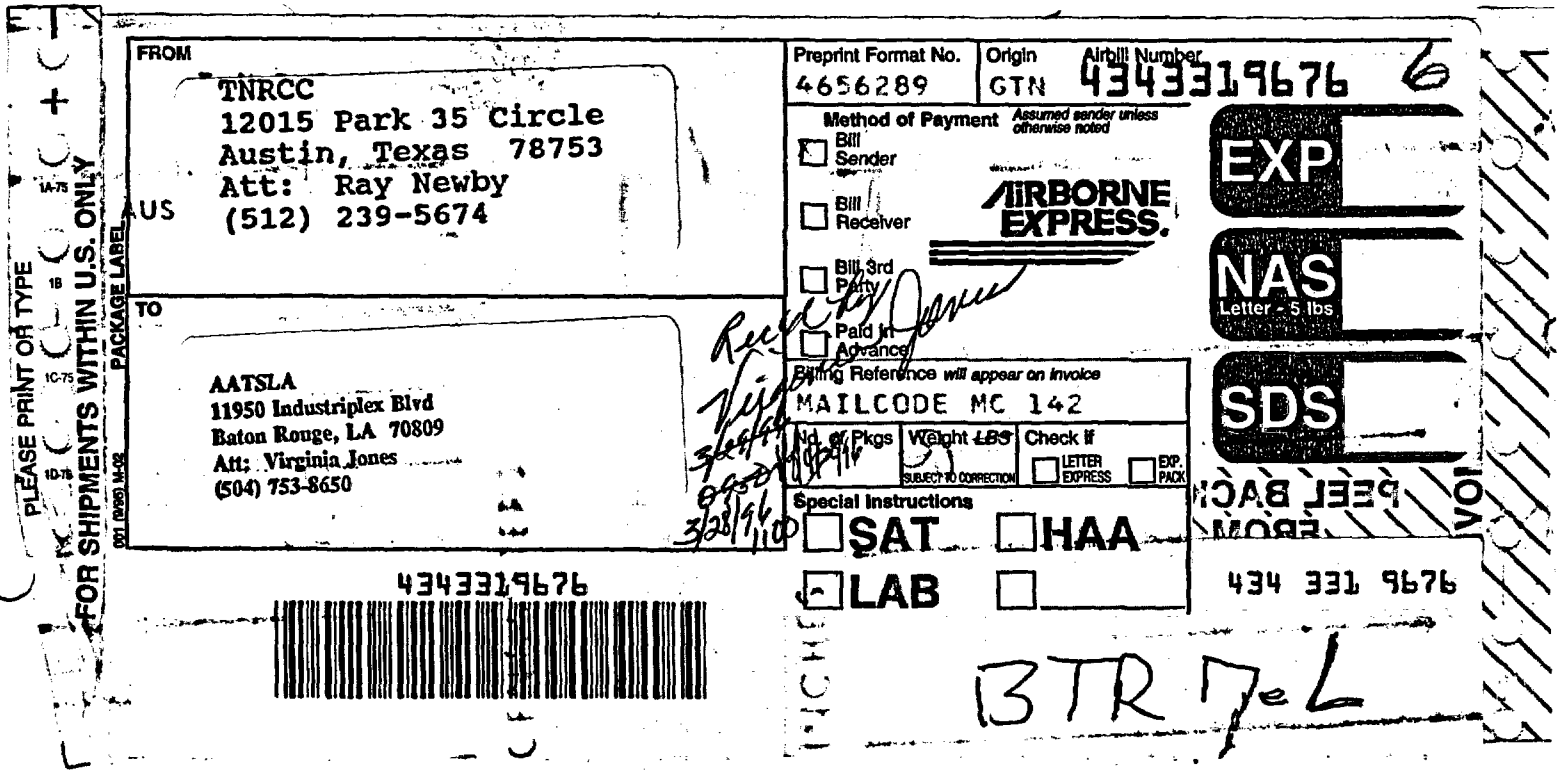
DATE	TIME Ch 3	TIME ch 4	AATS I.D.	EPA I.D.	DATA FILE NAME	COMMENTS	INT.
04/24/96	2154		15427.03	FER39	3 0424B SAM 3		B
	2232		15427.05	FER41	4		
	2311		15427.07	FER91	5		
04/25/96	0027		EPA1-7-AF3	PIBLKF3	7		
	0143		EPA1-9-AF3	PEM F3	9		
	0300		15427.06	FER90	11	3 Hex	
	0533		15427.08	FER92	15	1 Hex	
	0649		15427.09	FER93	17	1 Hex	
	0806		15427.04	FER90	19	1 Hex	
	0922		EPA1-7-AF4	PIBLKF4	21		
	1039		EPA1-12-AF3	INDAM F3	23		
	1155		EPA1-16-AF3	INDBM F3	25		

Bruce Heustevant
Verification Signature
4/26/96
Date

0044

[signature]
Analyst Signature
4/25/96
Date

000940



FROM
TNRCC
12015 Park 35 Circle
Austin, Texas 78753
Att: Ray Newby
AUS (512) 239-5674

TO
AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
Att: Virginia Jones
(504) 753-8650

Preprint Format No. 4656289
Origin GTN
Airbill Number 4343319676 6

Method of Payment (Assumed sender unless otherwise noted)
- Bill Sender
- Bill Receiver
- Bill 3rd Party
- Paid in Advance

AIRBORNE EXPRESS.

EXP
NAS Letter - 5 lbs
SDS

Billing Reference will appear on invoice
MAILCODE MC 142

No. of Pkgs | Weight LBS (SUBJECT TO CORRECTION) | Check if: LETTER EXPRESS, EXP. PACK

Special Instructions
- SAT
- HAA
- LAB

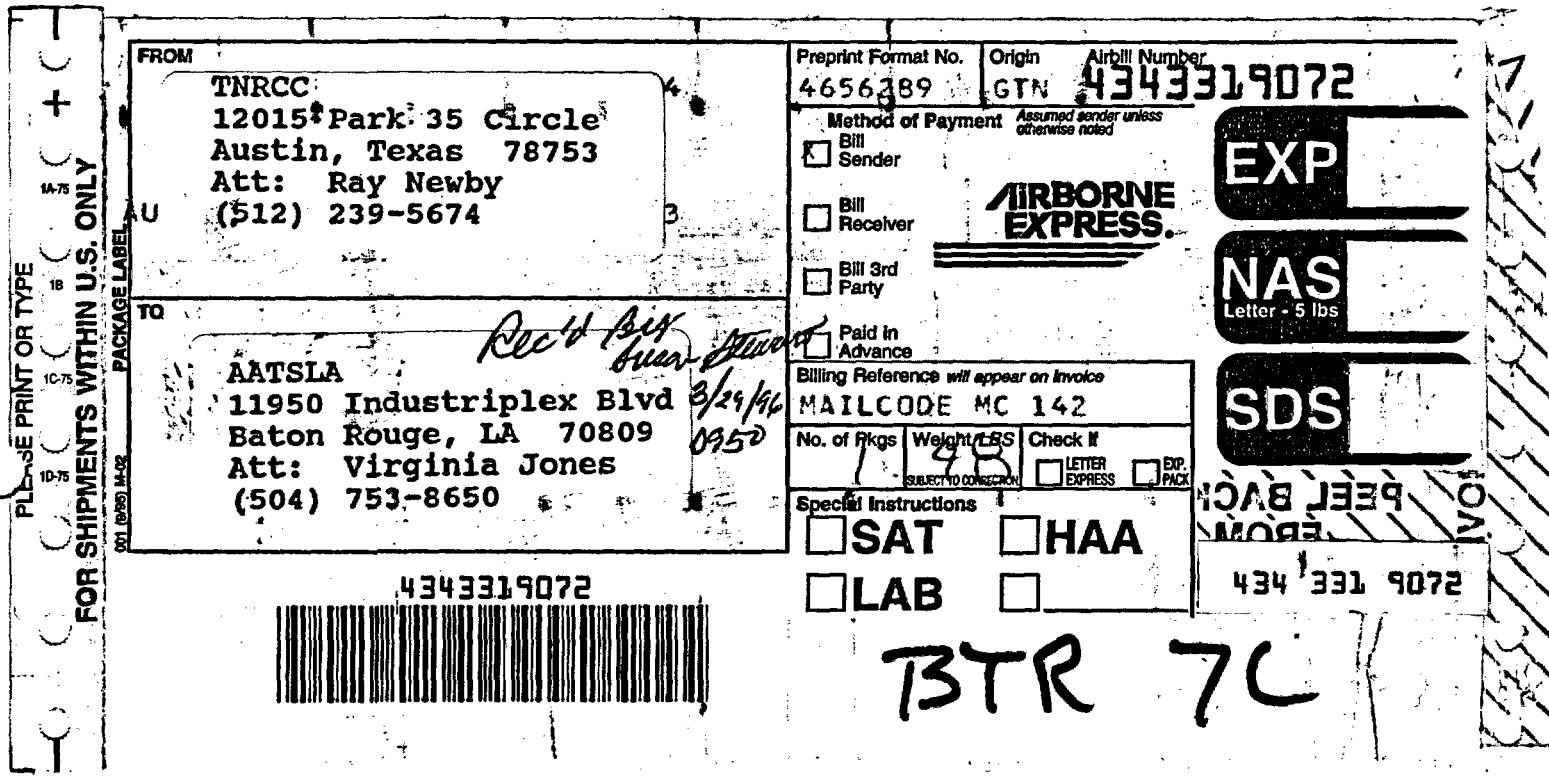
4343319676

434 331 9676

PLEASE PRINT OR TYPE
FOR SHIPMENTS WITHIN U.S. ONLY
PACKAGE LABEL

BTR 7eL

000941



PLEASE PRINT OR TYPE
FOR SHIPMENTS WITHIN U.S. ONLY
1A-75 1B 1C-75 1D-75
201 (6/95) M-02 PACKAGE LABEL

FROM
TNRCC
12015 Park 35 Circle
Austin, Texas 78753
Att: Ray Newby
(512) 239-5674

TO
AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
Att: Virginia Jones
(504) 753-8650

Rec'd by Susan Stewart 3/29/96 0950

4343319072

Preprint Format No. 4656389
Origin GTN
Airbill Number 4343319072

Method of Payment Assumed sender unless otherwise noted
☒ Bill Sender
☐ Bill Receiver
☐ Bill 3rd Party
☐ Paid in Advance

AIRBORNE EXPRESS.

EXP
NAS Letter - 5 lbs
SDS

Billing Reference will appear on invoice
MAILCODE MC 142

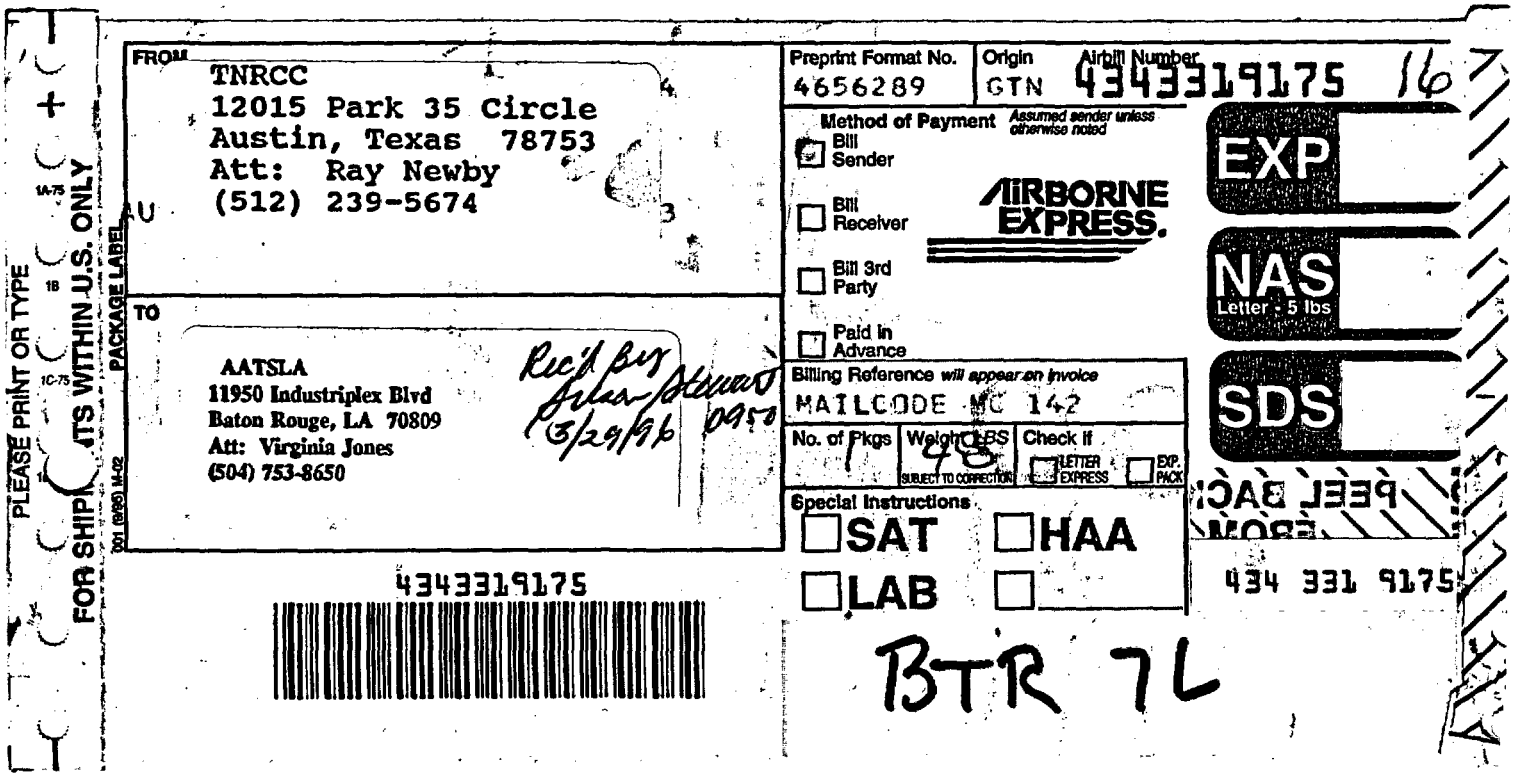
No. of Pkgs	Weight LBS (SUBJECT TO CORRECTION)	Check If
1	28	☐ LETTER EXPRESS ☐ EXP. PACK

Special Instructions
☐ SAT ☐ HAA
☐ LAB ☐

434 331 9072

BTR 7C

000942



FROM
TNRCC
12015 Park 35 Circle
Austin, Texas 78753
Att: Ray Newby
(512) 239-5674

TO
AATSLA
11950 Industriplex Blvd
Baton Rouge, LA 70809
Att: Virginia Jones
(504) 753-8650

Rec'd per Gilda Stewart 3/29/96 0950

4343319175

Preprint Format No. 4656289
Origin GTN
Airbill Number 4343319175

Method of Payment (Assumed sender unless otherwise noted)
- [x] Bill Sender
- [ ] Bill Receiver
- [ ] Bill 3rd Party
- [ ] Paid in Advance

AIRBORNE EXPRESS.

EXP
NAS Letter - 5 lbs
SDS

Billing Reference will appear on invoice
MAILCODE MC 142

No. of Pkgs	Weight LBS (SUBJECT TO CORRECTION)	Check if
1	48	[ ] LETTER EXPRESS [ ] EXP. PACK

Special Instructions
- [ ] SAT
- [ ] HAA
- [ ] LAB
- [ ]

434 331 9175

BTR 7L

PLEASE PRINT OR TYPE
FOR SHIPMENTS WITHIN U.S. ONLY
PACKAGE LABEL

AATS

000943

SAMPLE DELIVERY GROUP (SDG)
TRAFFIC REPORT (TR) COVER SHEET

Lab Name: American Analytical & Technical Services, Inc. Contract No.: 68-D5-0023

Lab Code: AATSLA Case No.: 24517 SAS No.: _____ - ___

Full Sample Analysis Price in Contract: $ 612.00

SDG No./First Sample in SDG: FER94 Sample Receipt Date: 03/28/96 (MM/DD/YY)
(Lowest EPA Sample Number in first shipment of samples received under SDG)

Last Sample in SDG: FES00 Sample Receipt Date: 03/29/96 (MM/DD/YY)
(Highest EPA Sample Number in last shipment of samples received under SDG)

EPA Sample Numbers in the SDG (listed in alphanumeric order):

1.	FER34	11.	FER95
2.	FER35	12.	FER97
3.	FER39	13.	FER98
4.	FER40	14.	FER99
5.	FER41	15.	FES00
6.	FER90	16.	
7.	FER91	17.	
8.	FER92	18.	
9.	FER93	19.	
10.	FER94	20.	

NOTE: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

Susan Stewart
Sample Custodian

April 3, 1996
Date

62 16

000944

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: 6

Sampling Co.: TNRCC

4. Date Shipped: 3/28/96

Carrier: Airborne

6. Date Received -- Received by: 3/29/96 Susan Stewart

Sampler (Name): Gary Hazelwood

Airbill Number: 4343319175

Laboratory Contract Number:

Unit Price:

Sampler Signature: Gary Hazelwood

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

5. Ship To: AATSLA, 11950 Industriplex Blvd., Baton Rouge, LA 70809

ATTN: Virginia Jones

7. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER92	5	L	G	5	X				6-020837-38	SO-01	03/27/96/0921	MFGH44	GH			
FER93	5	L	G	5	X				6-020843-44	SO-02	03/27/96/0933	MFGH41	GH			
FER91	5	L	G	5	X				6-020849-50	SO-03	03/27/96/1048	MFGH45	GH			
FER90	5	L	G	5	X				6-020855-56	SO-04	03/27/96/1116	MFGH42	GH			
FER35	5	L	G	5	X				6-020861-62	SO-05	03/27/96/1358	MFGH46	GH			
FER34	5	L	G	5	X				6-020867-68	SO-06	03/27/96/1419	MFGH43	GH			
FER40	5	L	G	5	X				6-020873-74	SO-07	03/27/96/1440	MFGE00	GH			
FER41	5	L	G	5	X				6-020879-80	SO-08	03/27/96/1048	MFGD97	GH			
FER39	5	L	G	5	X				6-020885-86	SO-09	03/27/96/1018	MFGD99	GH			

Shipment for Case Complete? (Y/N): Y

Page: 1 of 1

Sample(s) to be Used for Laboratory QC:

Additional Sampler Signatures:

Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Abigail Perry	03/28/96 1800				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Susan Stewart	3/29/96 0950		

A21-012-4 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

SDG #FER3 3-94 3/4/96

360335

5

17

000945

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved

2. Region No.: 6
Sampling Co.: TNRCC
4. Date Shipped: 3/28/96
Carrier: Airborne
6. Date Received -- Received by: 3/29/96 Susan Stewart

Sampler (Name): Gary Hazelwood
Airbill Number: 4343319072
Laboratory Contract Number:
Unit Price:

Sampler Signature: Gary Hazelwood
3. Purpose: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

5. Ship To: AATSLA, 11950 Industriplex Blvd, Baton Rouge, LA
ATTN: Virginia Jones

7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER92	5	L	G	5		X	X		6-020839-40	SO-01	03/27/96 0921	MFGH44	GH			
FER93	5	L	G	5		X	X		6-020845-46	SO-02	03/27/96 0933	MFGH41	GH			
FER91	5	L	G	5		X	X		6-020851-52	SO-03	03/27/96 1048	MFGH45	GH			
FER90	5	L	G	5		X	X		6-020857-58	SO-04	03/27/96 1116	MFGH42	GH			
FER35	5	L	G	5		X	X		6-020863-64	SO-05	03/27/96 1358	MFGH46	GH			
FER34	5	L	G	5		X	X		6-020869-70	SO-06	03/27/96 1419	MFGH43	GH			
FER40	5	L	G	5		X	X		6-020875-76	SO-07	03/27/96 1440	MFGE00	GH			
FER41	5	L	G	5		X	X		6-020881-82	SO-08	03/27/96 1048	MFGD97	GH			
FER39	5	L	G	5		X	X		6-020887-88	SO-09	03/27/96 1018	MFGD99	GH			

Shipment for Case Complete? (Y/N) YES
Page 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Abigail Pong	3/28/96 1800				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Susan Stewart	Date / Time 3/29/96 0950	Remarks Is custody seal intact? Y/N/none	

A21-012-4 REV. 3/93

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

SDG # FER~~3443~~ 43 2/4/3/96 2/4/3/96

360354

58

6

EPA United States Environmental Protection Agency Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 24517

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H2SO4
   5. Ice only
   6. Other (Specify in Column D)
   N. Not preserved

2. Region No.: 6
Sampling Co.: TNRCC
Sampler (Name): Gary Hazelwood
Sampler Signature: Gary Hazelwood

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [X] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 03/27/96
Carrier: Airborne
Airbill Number: 4343319676

5. Ship To: American Analytical & Tech Serv (AATS LA)
11950 Industriplex Blvd.
Baton Rouge, LA. 70809-5191
ATTN: Virginia Jones

6. Date Received -- Received by: 3/28/96 [signature]
Laboratory Contract Number:
Unit Price:

7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
FER99	5	L	G	5	X	X	X		6-020801-04	SE-01	03/26/96/0920	MFGH39	GH			
FER97	5	L	G	5	X	X	X		6-020807-10	SE-02	03/26/96/0947	MFGH40	GH			
FER00	5	L	G	5	X	X	X		6-020813-16	SE-03	03/26/96/1008	MFGH36	GH			
											03/26/96/0859					
FER95	5	L	G	5	X	X	X		6-020825-28	SE-05	03/26/96/0835	MFGH37	GH			
FER94	5	L	G	5	X	X	X		6-020831-34	SE-06	03/26/96/0859	MFGH38	GH			
FER98	5	L	G	5	X	X	X		6-020819-22	SE-04	03/26/96/0859	MFGH35	GH			

4/2H 3/24

Shipment for Case Complete? (Y/N): N
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: FER99
Additional Sampler Signatures:
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Gary Hazelwood	03/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [signature]	Date / Time 3/28/96 1100	Remarks Is custody seal intact? Y/N/none	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITION

SDG# FER[illegible] 3/26
SDG Final Sample 3/26

A21-012-4 REV. 3/93

360[illegible]8

000946

000947

All logbook pages are copies
RD Originals retained in
05/01/96 Bound logbooks at
AATSLA
Pages 000947 To 000948

SAMPLE LOG-IN SHEET

Lab Name: American Analytical & Technical Services, Inc.

Page 1 of 1

Received By (Print Name): Susan Stewart

Log-in Date 3/28/96

Received By (Signature): Susan Stewart

Case Number 24517

Sample Delivery Group No. FER94

SAS Number —

Remarks:

1. Custody Seal(s) — Present/Absent* / Intact/Broken
2. Custody Seal Nos.: N/A
3. Chain-of-Custody Records — Present/Absent*
4. Traffic Reports or Packing List — Present/Absent*
5. Airbill — ~~Airbill~~/Sticker Present/Absent*
6. Airbill No. Airborne 4343319676
7. Sample Tags — Present/Absent*
   Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
8. Sample Condition: Intact/Broken*/Leaking
   #6-5E
9. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
   Sample FE500 Had wrong ID on C.o.C.
10. Date Received at Lab: 3/28/96
11. Time Received: 1100

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
FE500	6020813-16	15411.01	Intact
FER94	6020831-34	.02	
95	6020825-28	.03	
97	6020807-10	.04	
98	6020817-20	.05	
99	6020801-04	.06	
99MS	↓	.07	
99MSD	↓	.08	↓

Sample Transfer

Fraction:	Fraction:
Area #:	Area #:
By:	By:
On:	On:

* Contact SMO and attach record of resolution

Received By:	Logbook No:
Date:	Logbook Page No:

000948

SAMPLE LOG-IN SHEET

Lab Name: American Analytical & Technical Services, Inc.		Page ____ of ____
Received By (Print Name): Susan Stewart		Log-in Date 3/29/96
Received By (Signature): Susan Stewart		
Case Number 24517	Sample Delivery Group No. FER94	SAS Number ____

Remarks:

1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.:	N/A
3. Chain-of-Custody Records	Present/Absent*
4. Traffic Reports or Packing List	Present/Absent*
5. Airbill	Airbill/Sticker Present/Absent*
6. Airbill No.	4343319175 4343319072
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition:	Intact/Broken*/Leaking
9. Does information on custody records, traffic reports, and sample tags agree?	Yes/No*
10. Date Received at Lab:	3/29/96
11. Time Received:	0950

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
FER 34	602069-70, 602067-68	15427.01	Intact
35	602063-64, 602061-62	.02	
39	602087-88, 602085-86	.03	
40	602085-76, 602073-74	.04	
41	602088-82, 602079-80	.05	
90	602057-58, 602055-56	.06	
91	602051-52, 602049-50	.07	
92	602037-38, 602039-40	.08	
FER 93	602045-46, 602043-44	.09	

Sample Transfer

Fraction:	Fraction:
Area #:	Area #:
By:	By:
On:	On:

* Contact SMO and attach record of resolution

Received By:	Logbook No:
Date:	Logbook Page No:

AMERICAN ANALYTICAL & TECHNICAL SERVICES
11950 Industriplex Blvd.
Baton Rouge, LA 70809

000949

Date: 03/28/96
Episode: 15411
Client: USEPA

Case 24517

SAMPLE LOG-IN RECORD

SAMPLE #	DATE IN	DESCRIPTION	SDG	MA	NC	TEST	PRI	DUE	CONTAINER	DESCRIPTION	RESULTS	ANALYST	DATE/TIME
15411.01	03/28/96	FES00 ~~FER00~~	FER94 ~~FER00~~	S	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/29/96	ABCD	% MOISTURE			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15411.02	03/28/96	FER94 ✓	FER94	S	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/29/96	ABCD	% MOISTURE			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15411.03	03/28/96	FER95 ✓	FER94	S	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/29/96	ABCD	% MOISTURE			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15411.04	03/28/96	FER97 ✓	FER94	S	4	GC817	4	04/17/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/29/96	ABCD	% MOISTURE			
						MS317	4	04/17/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/17/96	C	BNA CLP OLM03.1			
										EXTRACTION			

WET LAB COPY

SAMPLE #	DATE IN	DESCRIPTION	SDG	MA	NC	TEST	PRI	DUE	CONTAINER DESCRIPTION	RESULTS	ANALYST	DATE/TIME
15411.05	03/28/96	FER98	FER94	S	4	GC817	4	04/17/96	D PEST CLP OLM031			
									EXTRACTION			
						IN660	8	03/29/96	ABCD % MOISTURE			
						MS317	4	04/17/96	AB VOA-CLP OLM03.1			
						MS517	4	04/17/96	C BNA CLP OLM03.1			
									EXTRACTION			
15411.06	03/28/96	FER99	FER94	S	4	GC817	4	04/17/96	D PEST CLP OLM031			
									EXTRACTION			
						IN660	8	03/29/96	ABCD % MOISTURE			
						MS317	4	04/17/96	AB VOA-CLP OLM03.1			
						MS517	4	04/17/96	C BNA CLP OLM03.1			
									EXTRACTION			
11.07	03/28/96	FER99MS	FER94	S	4	GC817	4	04/17/96	D PEST CLP OLM031			
									EXTRACTION			
						IN660	8	03/29/96	ABCD % MOISTURE			
						MS317	4	04/17/96	AB VOA-CLP OLM03.1			
						MS517	4	04/17/96	C BNA CLP OLM03.1			
									EXTRACTION			
15411.08	03/28/96	FER99MSD	FER94	S	4	GC817	4	04/17/96	D PEST CLP OLM031			
									EXTRACTION			
						IN660	8	03/29/96	ABCD % MOISTURE			
						MS317	4	04/17/96	AB VOA-CLP OLM03.1			
						MS517	4	04/17/96	C BNA CLP OLM03.1			
									EXTRACTION			

Total samples = 8

AMERICAN ANALYTICAL & TECHNICAL SERVICES
11950 Industriplex Blvd.
Baton Rouge, LA 70809

000951 Date: 03/29/96
Episode: 15427
Client: USEPA
Project: CASE #24517

SAMPLE LOG-IN RECORD

SAMPLE #	DATE IN	DESCRIPTION	SDG	MA	NC	TEST	PRI	DUE	CONTAINER	DESCRIPTION	RESULTS	ANALYST	DATE/TIME
15427.01	03/29/96	FER34	FER94	S	4	GC817	4	04/18/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/30/96	ABCD	% MOISTURE			
						MS317	4	04/18/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/18/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15427.02	03/29/96	FER35	FER94	S	4	GC817	4	04/18/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/30/96	ABCD	% MOISTURE			
						MS317	4	04/18/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/18/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15427.03	03/29/96	FER39	FER94	S	4	GC817	4	04/18/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/30/96	ABCD	% MOISTURE			
						MS317	4	04/18/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/18/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15427.04	03/29/96	FER40	FER94	S	4	GC817	4	04/18/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/30/96	ABCD	% MOISTURE			
						MS317	4	04/18/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/18/96	C	BNA CLP OLM03.1			
										EXTRACTION			

WET LAB COPY

SAMPLE #	DATE IN	DESCRIPTION	SDG	MA	NC	TEST	PRI	DUE	CONTAINER	DESCRIPTION	RESULTS	ANALYST	DATE/TIME
15427.05	03/29/96	FER41	FER94	S	4	GC817	4	04/18/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/30/96	ABCD	% MOISTURE			
						MS317	4	04/18/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/18/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15427.06	03/29/96	FER90	FER94	S	4	GC817	4	04/18/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/30/96	ABCD	% MOISTURE			
						MS317	4	04/18/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/18/96	C	BNA CLP OLM03.1			
										EXTRACTION			
27.07	03/29/96	FER91	FER94	S	4	GC817	4	04/18/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/30/96	ABCD	% MOISTURE			
						MS317	4	04/18/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/18/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15427.08	03/29/96	FER92	FER94	S	4	GC817	4	04/18/96	D	PEST CLP OLM031			
										EXTRACTION			
						IN660	8	03/30/96	ABCD	% MOISTURE			
						MS317	4	04/18/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/18/96	C	BNA CLP OLM03.1			
										EXTRACTION			
15427.09	03/29/96	FER93	FER94	S	4	GC817	4	04/18/96	D	PEST CLP OLM031			
										EXTRACTION			

SAMPLE #	DATE IN	DESCRIPTION	SDG	MA	NC	TEST	PRI	DUE	CONTAINER	DESCRIPTION	RESULTS	ANALYST	DATE/TIME
15427.09 (cont)						IN660	8	03/30/96	ABCD	% MOISTURE			
						MS317	4	04/18/96	AB	VOA-CLP OLM03.1			
						MS517	4	04/18/96	C	BNA CLP OLM03.1			
										EXTRACTION			

Total samples = 9

VIRGINIA JONES

CLPAS SHIPPING

TO: AATSLA **DATE: 03/31/96** **FROM: RAS COORDINATORS**

Case No	Coordinator	Region	Shipping Date	Airbill Number	Samples Shipped	Ship info called in by sampler complete? Y/N	Does lab TR match? Y/N
24517	Jonathan	VI	03/28/96	4343319175	9 LS VOA Airborne Express Airbill!!!	Y	Y
24517	Jonathan	VI	03/28/96	4343319072	9 LS BNA/PES Airborne Express Airbill!!!	Y	Y

456000

MATRIX: LW = Low Conc. Water LS = Low Conc. Soil MS = Medium Conc. Soil

ANALYSIS: FTCL = Full Target Compound List; VOA; BNA; PEST/PCB (P/P)

TMCN = Total Metals and Cyanide; TM = Total Metals; CN = Cyanide; DM = Dissolved Metals

Lab should determine whether TR received matches shipping info. provided by CLASS and should call appropriate coordinator if there is a problem with the above information.

000955

In Reference to Case No(s):
24517

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 03/28/96

Laboratory Name: AATSLA
Lab Contact: Virginia L. Jones / Robyn Darby

~~Region~~: CLASS
Regional Contact: Jonathan Rude / Carol Shaffer

Call Initiated by: X Laboratory _____ Region

In reference to data for the following sample number(s):

FES00

Summary of Questions/Issues Discussed:

Sample was listed on chain-of-custody as FER00. However, the labels on the sample containers and the sample tags all indicated the sample ID was FES00.

Summary of Resolution:
Note in narrative call the sample FES00.

Virginia L Jones / Robyn Darby
Signature

4/3/96
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

Contract Laboratory Analytical Services Support (CLASS) Record of Communication

Name: Jonathan Rude

Contact Recv'd Via: _ Phone _ Fax X Vmail _ Memo _ Other

Date/Time of Contact 3/28/96 3:36 PM

Initiated By: X Lab _ CLASS _ Region _ Other

Contact/Org./Phone#: Virginia Jones/ American Analytical & Technical Services/ (504) 753-8650

Lab: AATSLA Contract#: D5-0023 A Case#: 24517 SDG: FER94 Region: 6

SOW: Affected Samples: FER00 (should be) FES00; TR has 5 aq. SV & P/P (should be 6 & VOA too) Invoice#:

Discussion/Issue:

3/28/96 @ 1536 - Virginia Jones / AATSLA / (504)753-8650 - AATSLA reported the following problems with sample received on 3/28/96 for this case:

1. FEROO is a SOIL, marked on the TR, but the actual sample number is FES00 as indicated on the bottles and tags. NOTE IN THE NARRATIVE?

2. The TR indicates that 5 aqueous samples for BNA and PEST/PCB were sent for this case, however, the laboratory received 6 aqueous for FTCL. The sixth sample is a VOA trip blank. PROCEED? NOTE IN THE NARRATIVE?

3/29/96 @ 1245 - Myra Perez / Region VI, RSCC / (713)983-2130 - A facsimile of this discussion was provided to Region VI for resolution/response.

Resolution

4/1/96 Case 24517 and unresolved issues were passed over to the new CLASS regional coordinator, Carol Shaeffer. Contacted RSCC Myra Perez for resolution on outstanding issues.

1. Per AATSLA, bottle labels and tags specify FES00. Appears to be transcription error on TR. Lab to note in case narrative.
2. RSCC requests additional information to ensure that extra samples are unique samples and not additional aliquots for other samples.

4/2/96 AATSLA was contacted to obtain listing of what was received. Primary contact Virginia Jones was not in the office. Robyn Darby, back-up, would attempt to provide listing of samples received in order to assist in determination of actual samples received. Listing not provided 4/2/96.

4/3/96 9:27 AM Virginia Jones, AATSLA, contacted CLASS to review situation.
10:15 AM CLASS returned call. The issue as described by the lab is that that there was a discrepancy between what was actually received by the lab and the shipping information that was reported by CLASS (J.R. as received from the sampler). Lab received 5 low waters for full organic analysis (VOA, BNA, pest/PCB), not just BNA and pest/PCBs. The TR/COCs and the numbers and requested analyses all match. The samples shipped were also consistent with what was scheduled. No other issues. Lab will proceed with log-in and analysis.

CLASS will update shipping information.

CLASS OPS No Completed Date/Time: 4/3/96 10:15 AM

Routed: No Referred To Date/Time W.A.#: ST&R

Distribution: ◉ Lab ◉ Region ◉ CLASS ○ AOB ○ Work Assign. Man.

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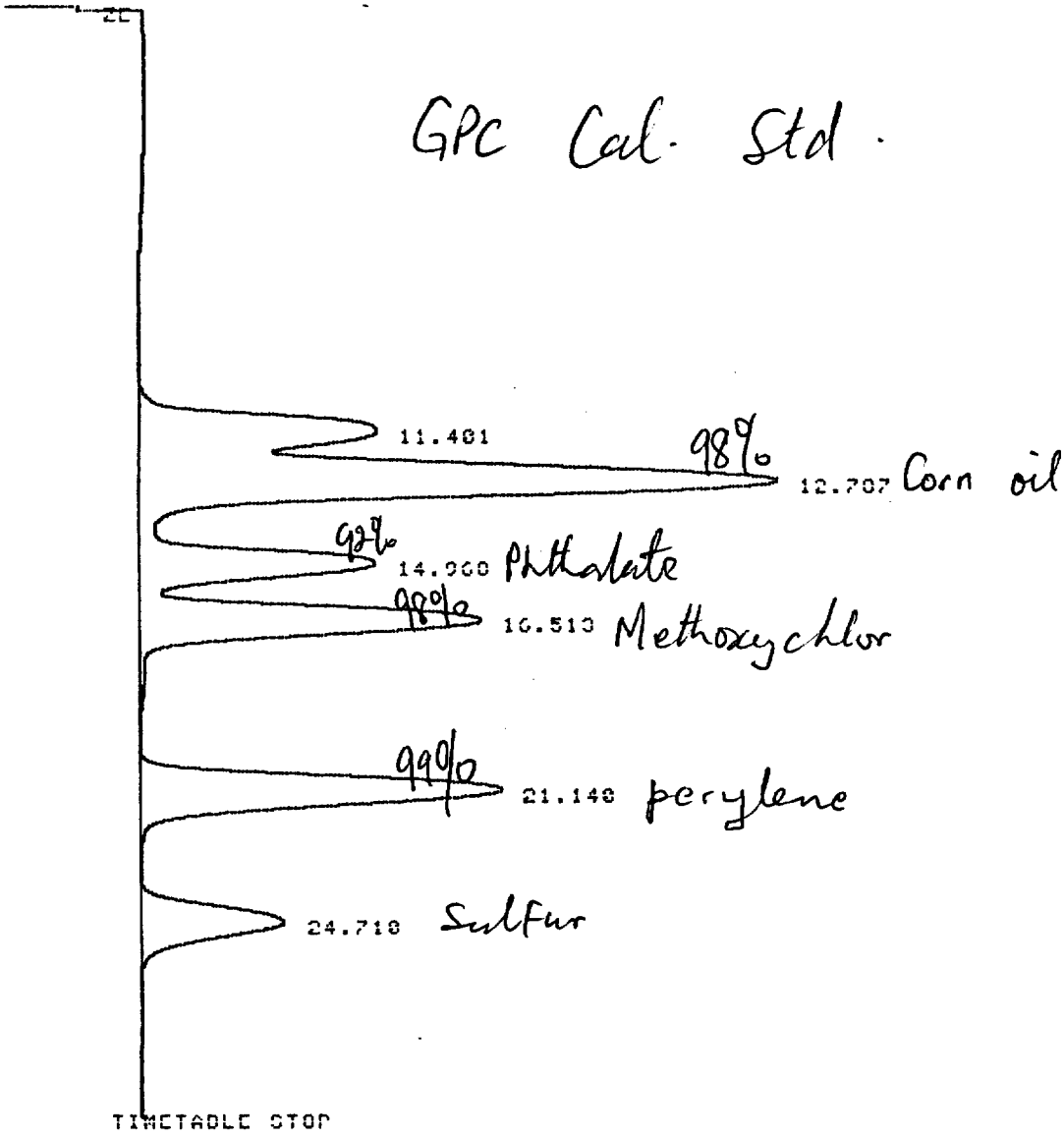

TIMETABLE STOP

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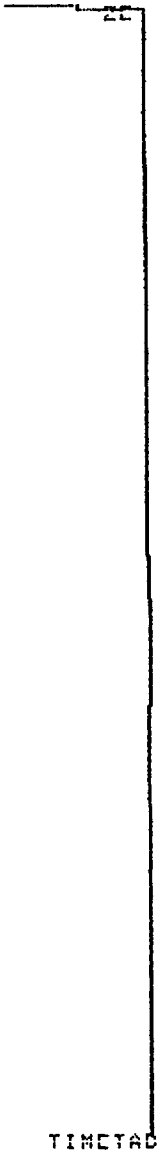
START Source

GPC BLK A

* RUN # 000 APR 1, 1996 05:00:00

START Source



GPC RUC B

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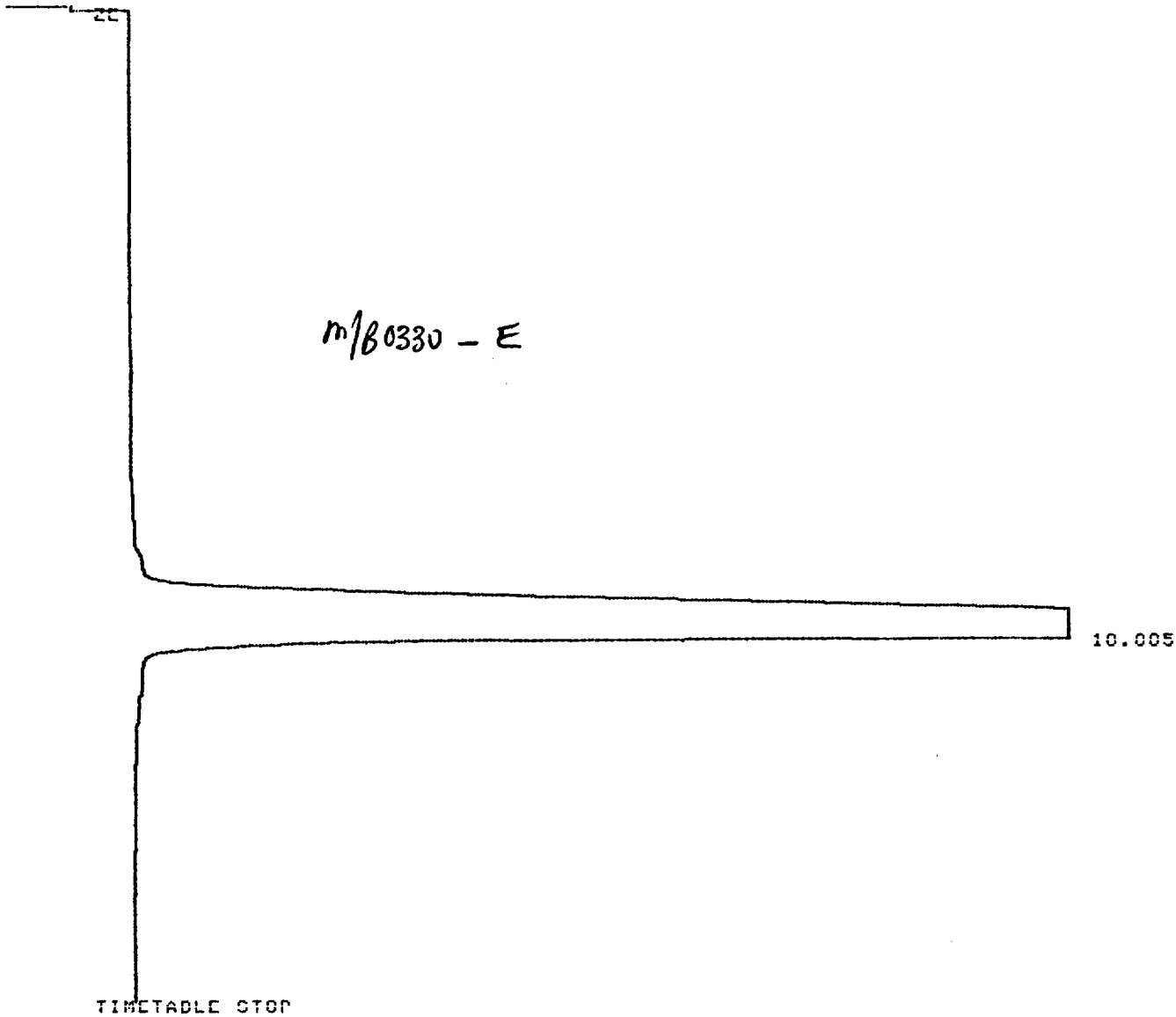
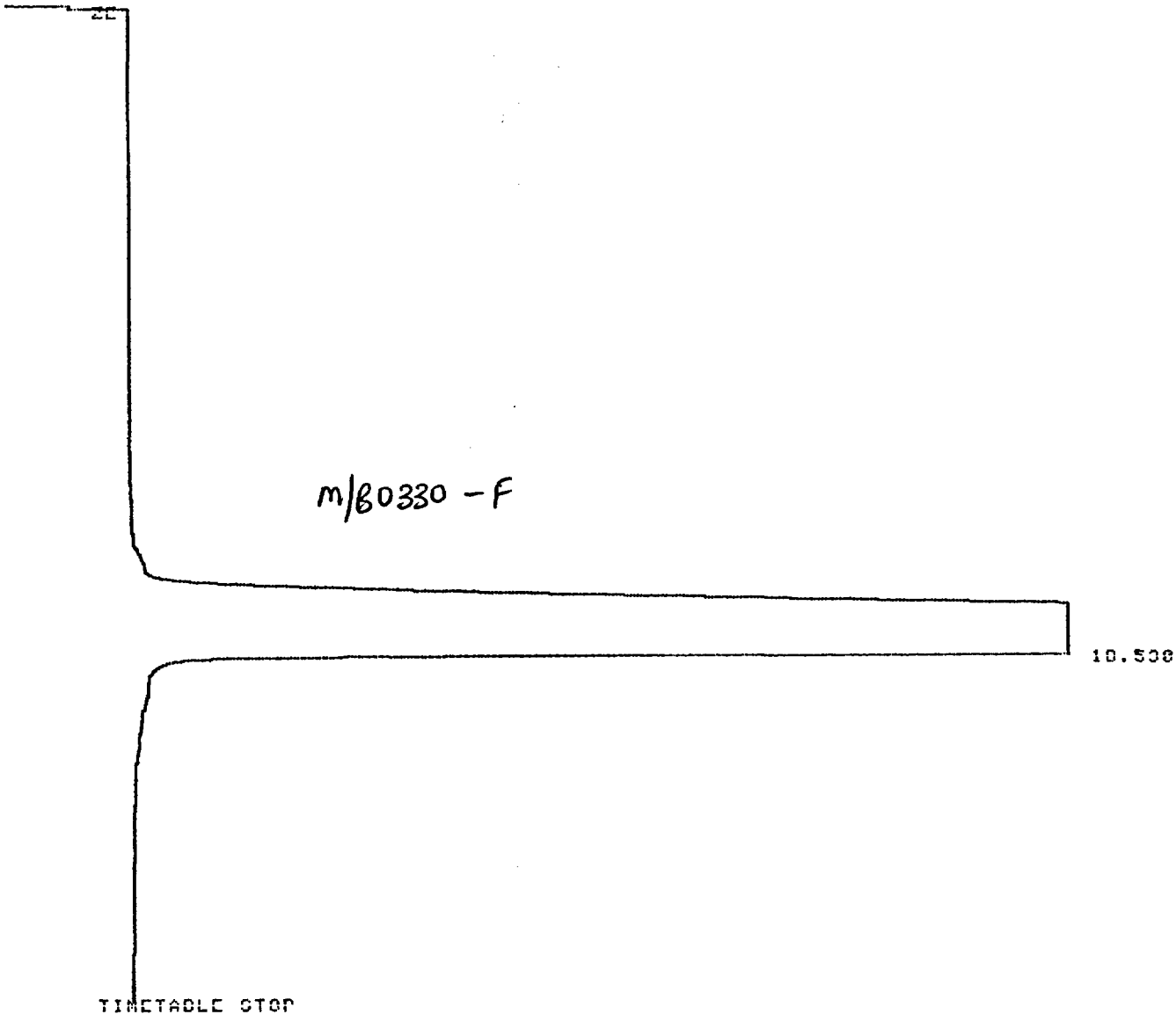


m/B0330 – E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M/B0330 -F
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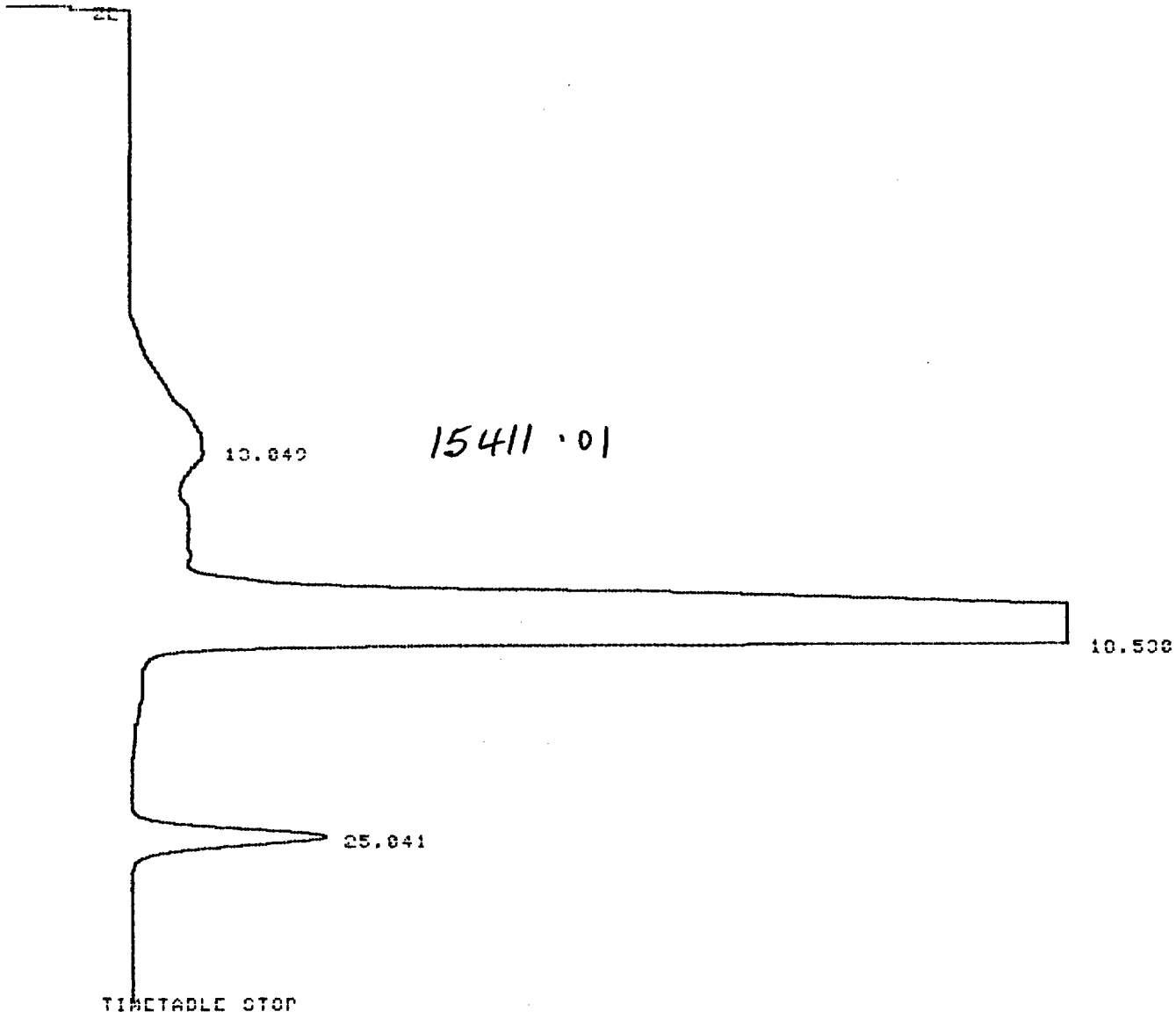

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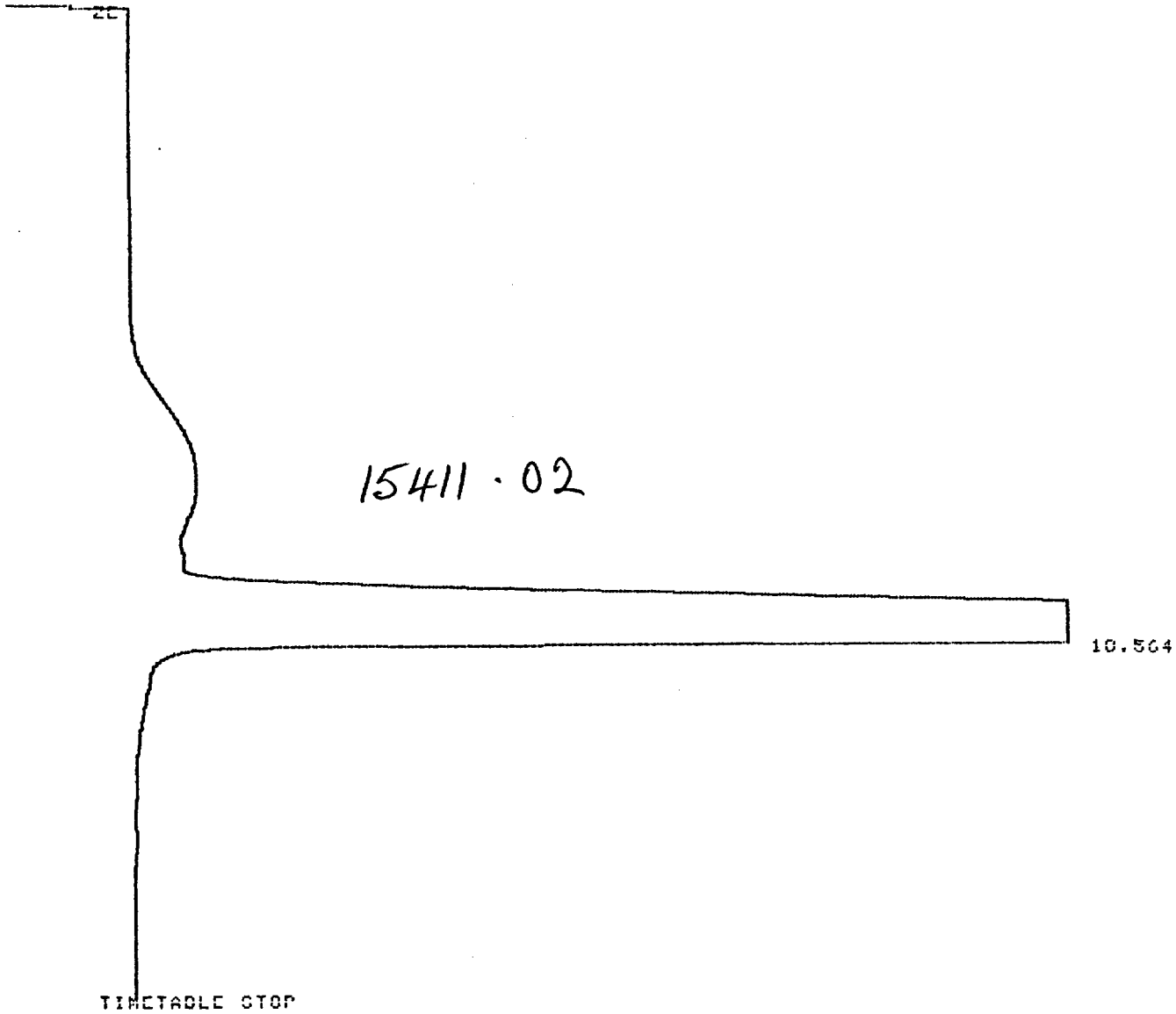

* RUN # 005 APR 1, 1990 10:00:16

START Source

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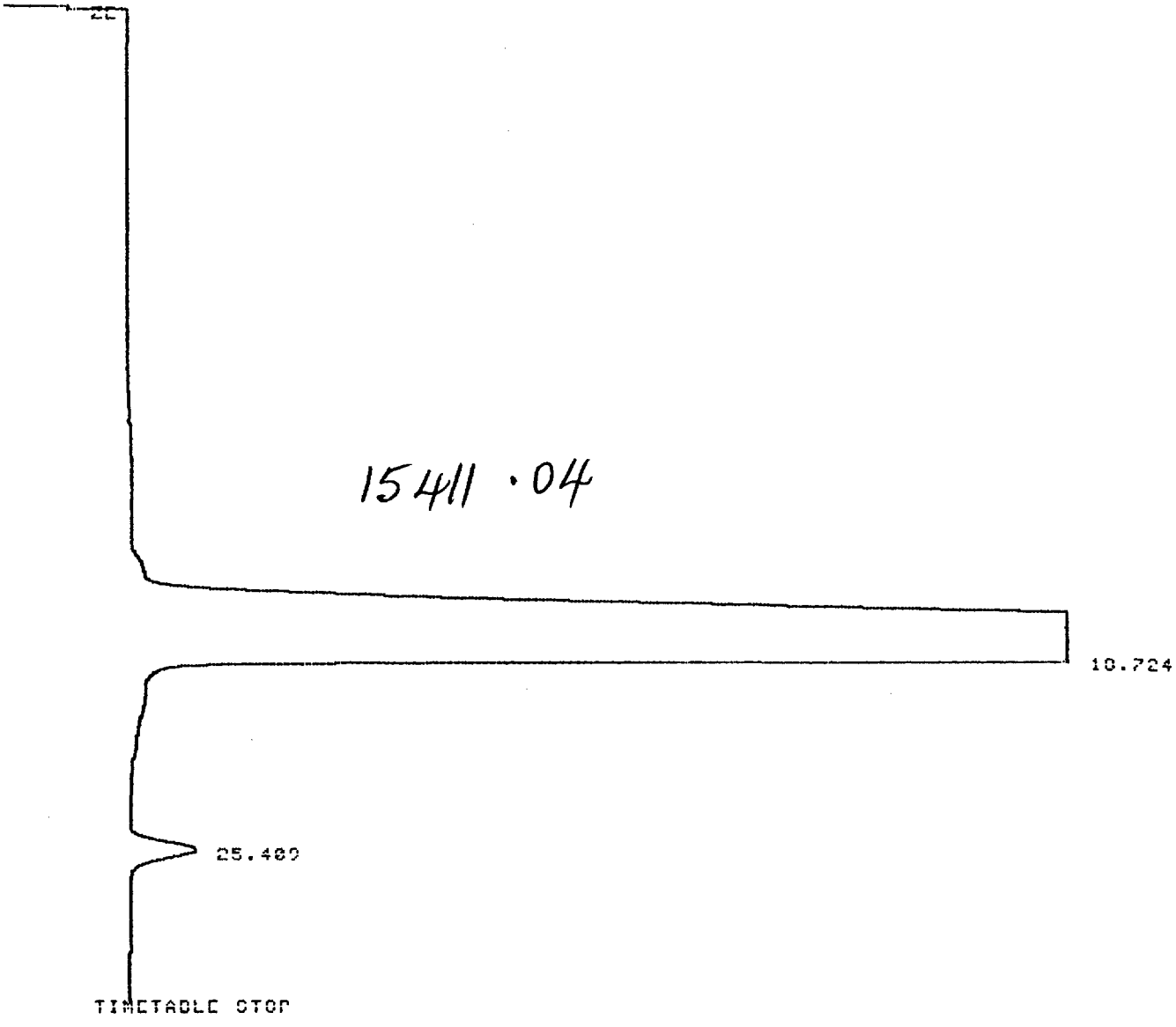
START Source



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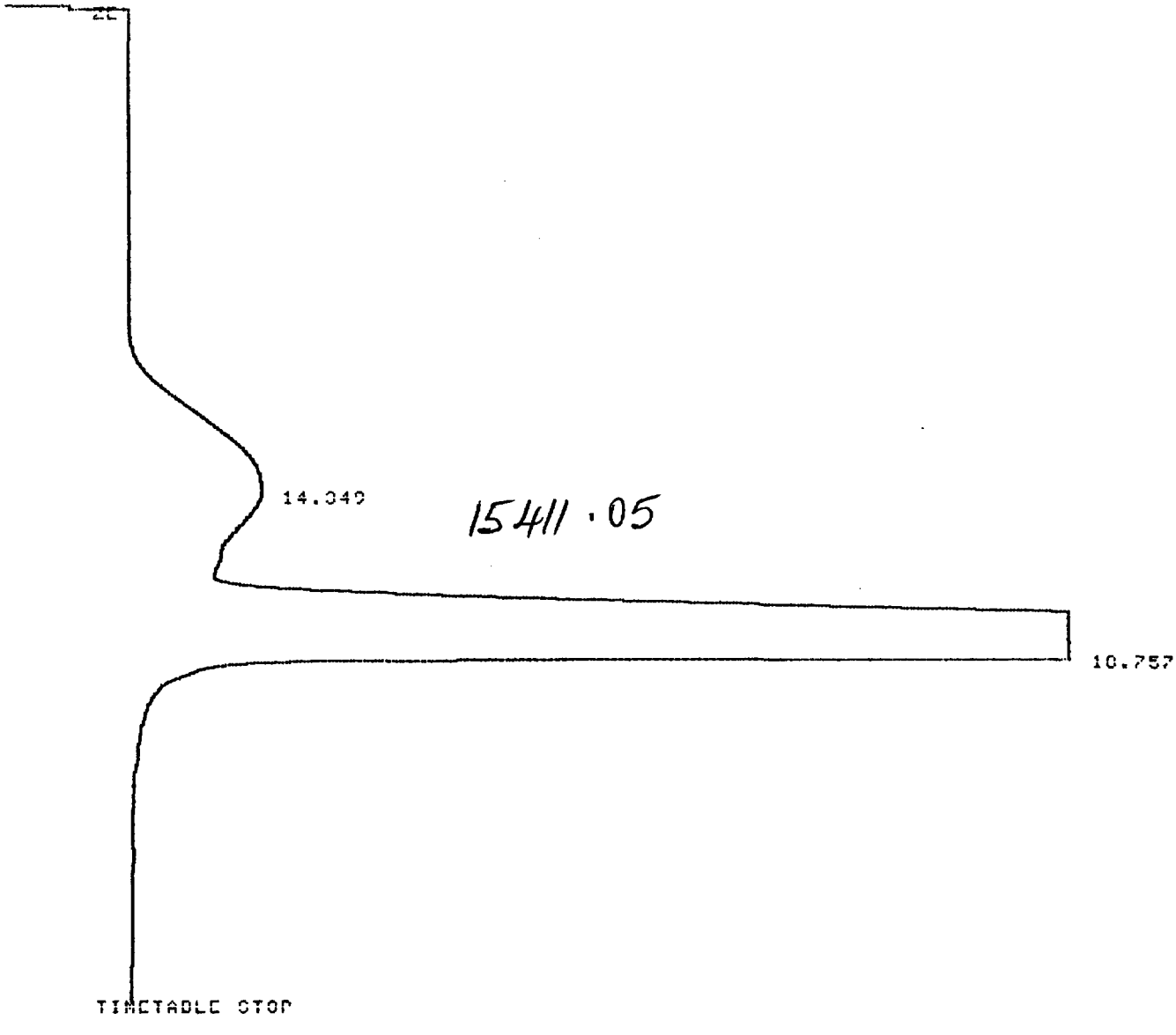

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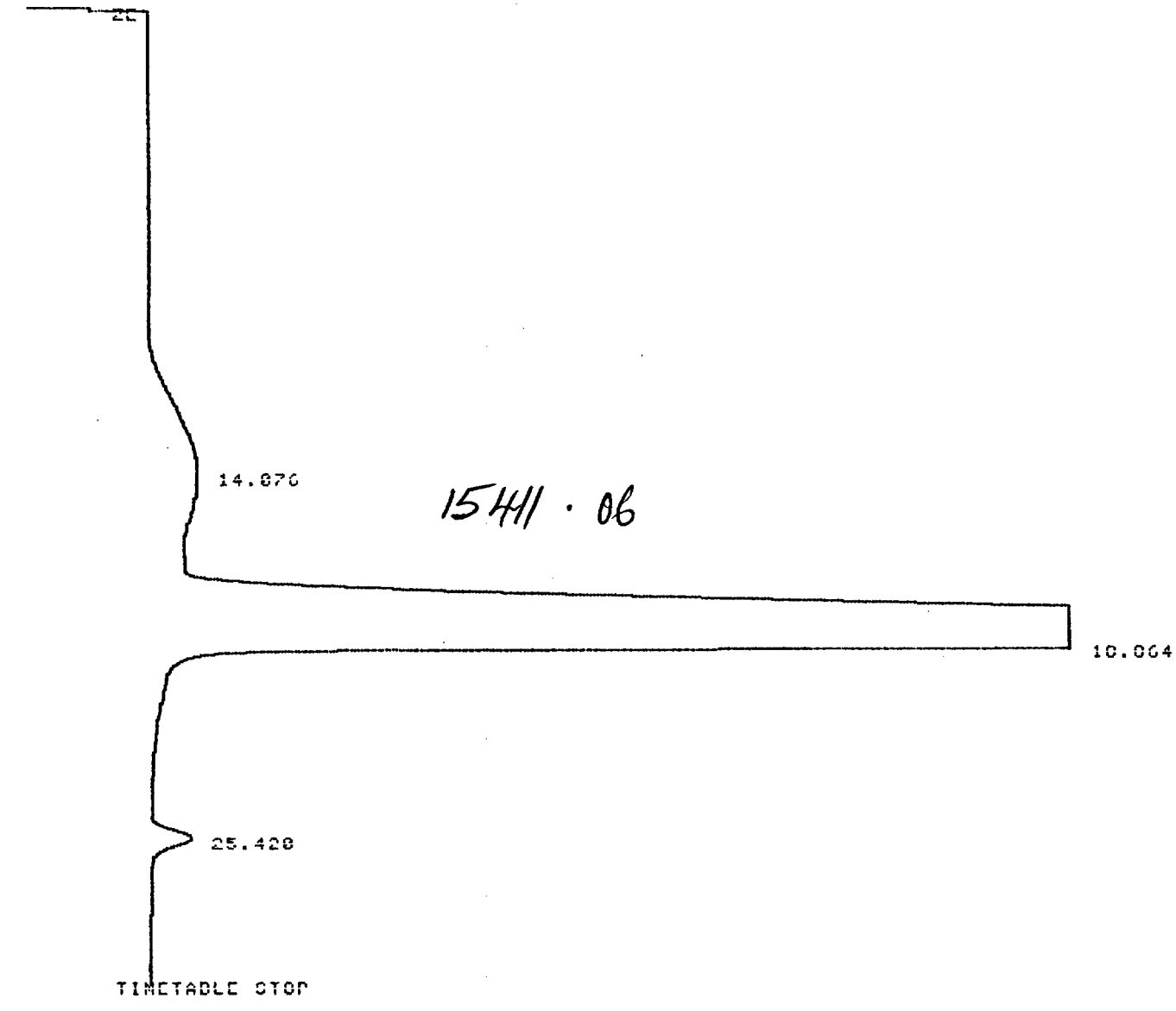

15411 · 06

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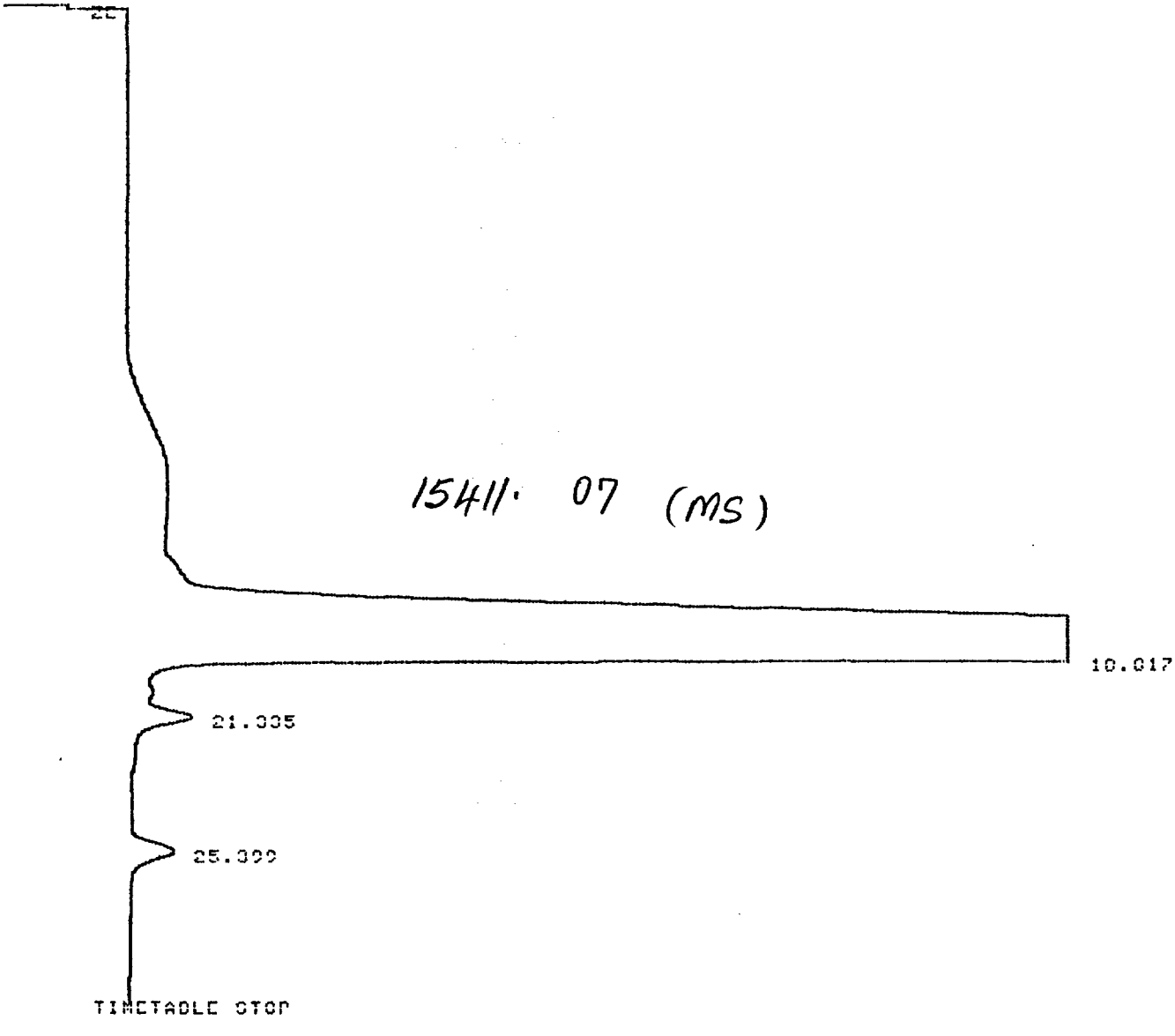

15411.07 (MS)

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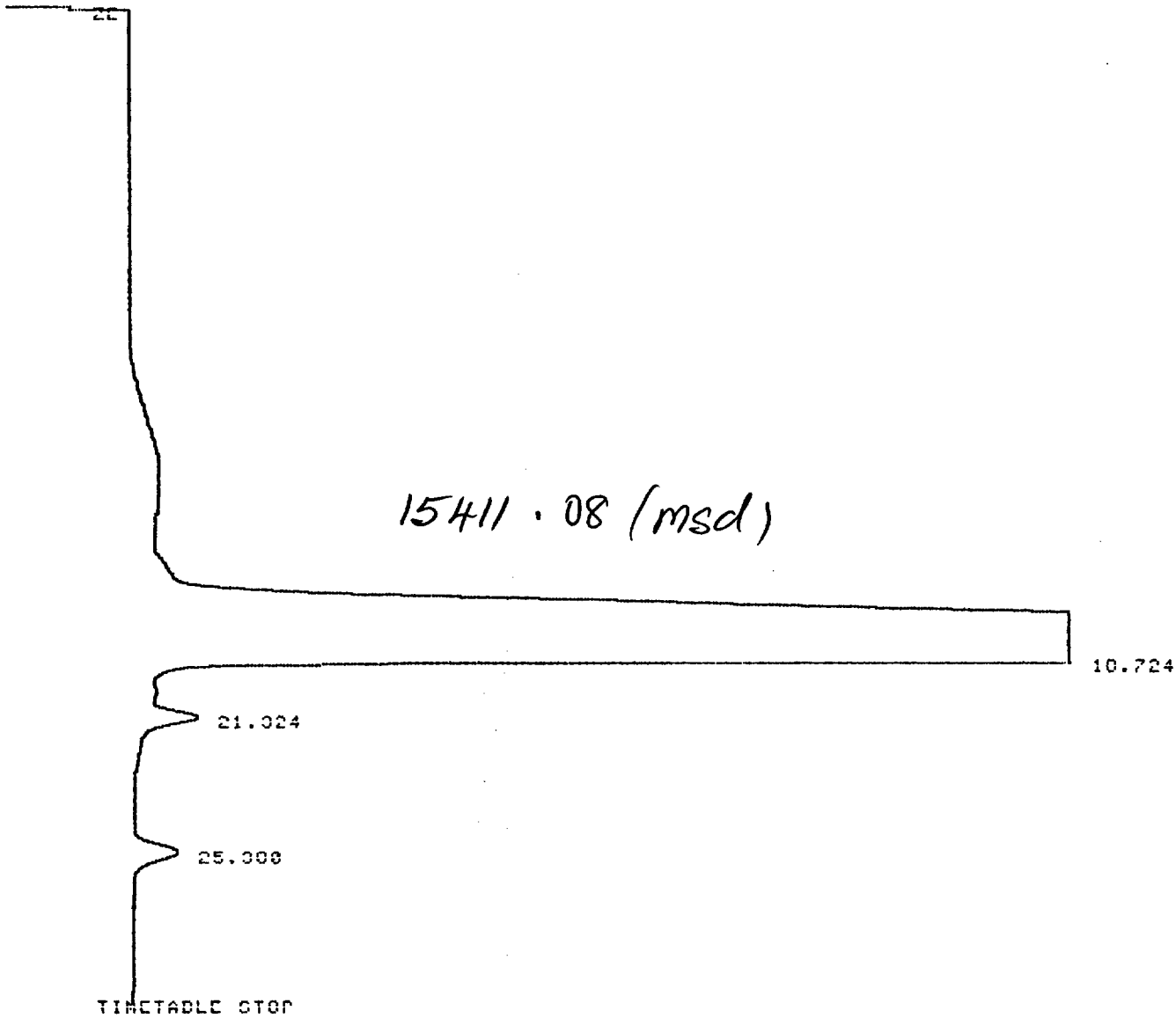

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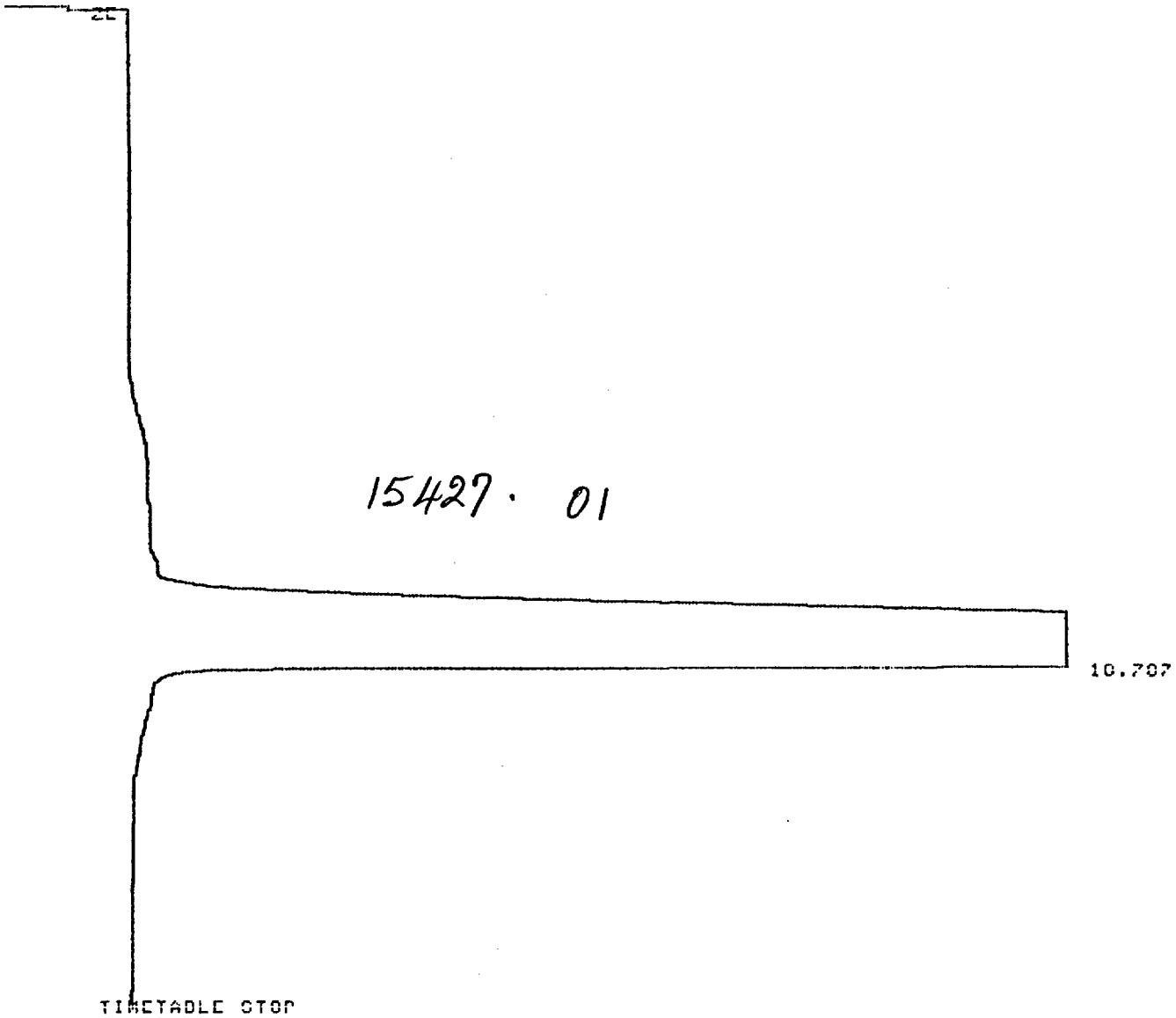

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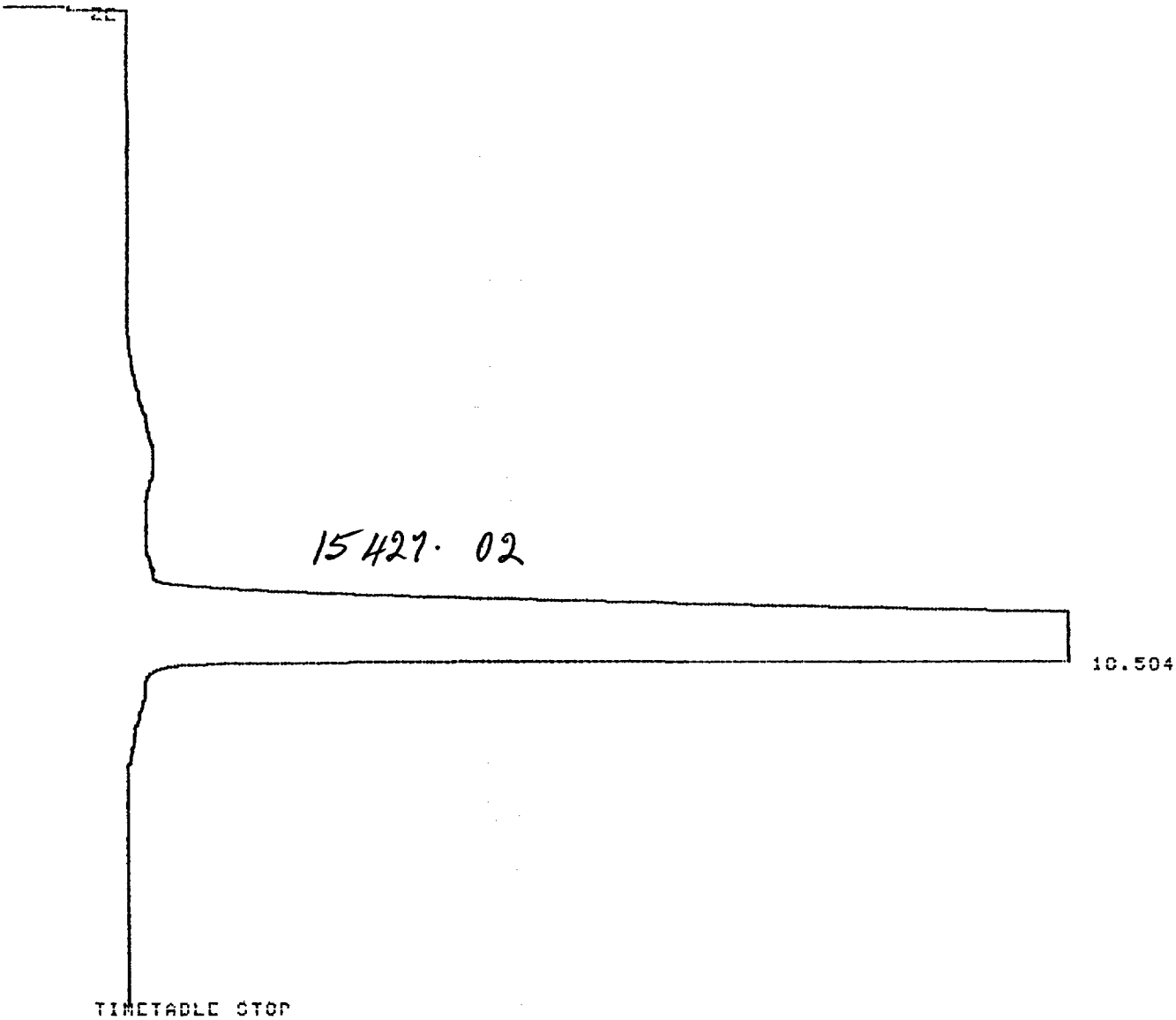

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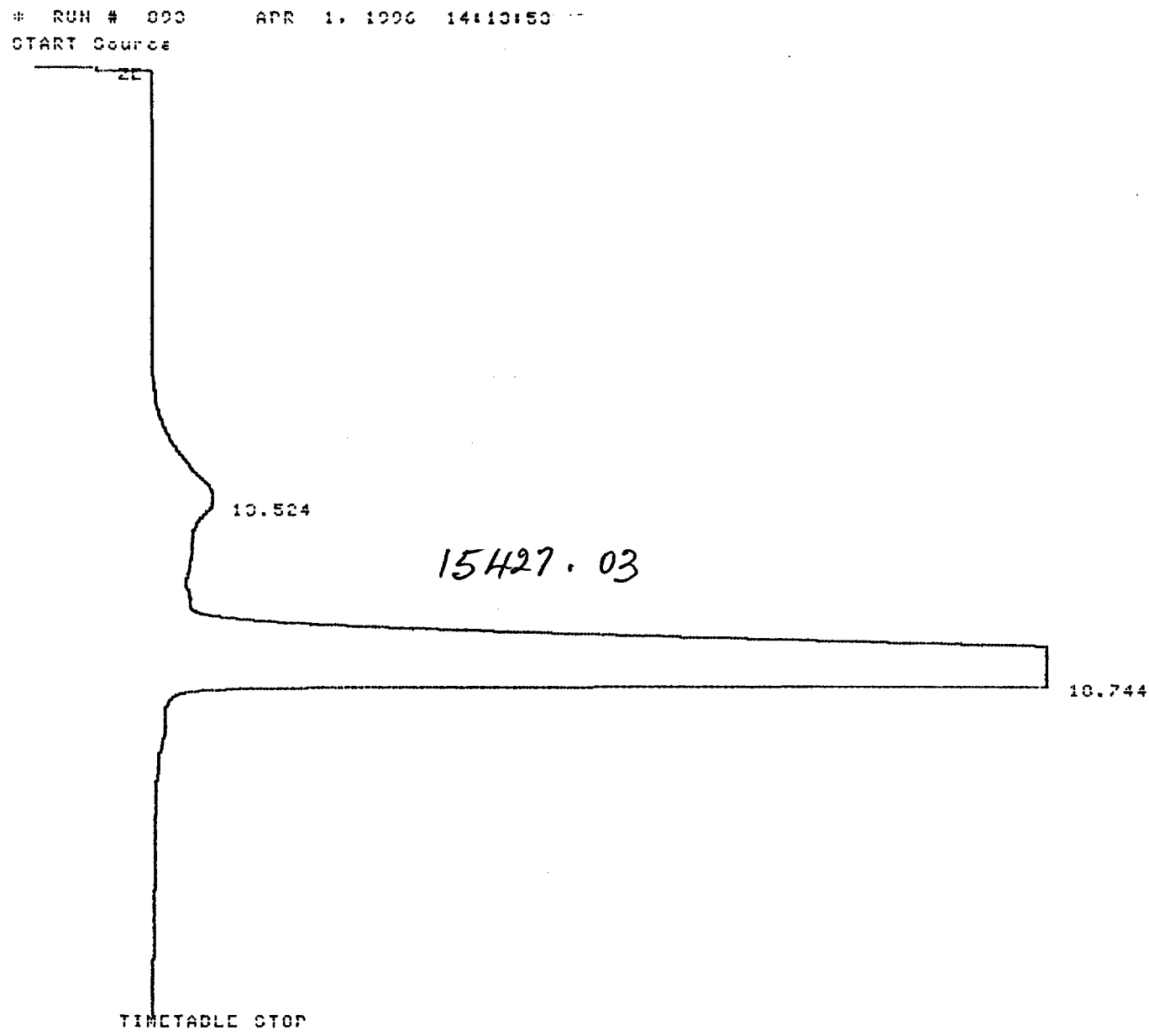

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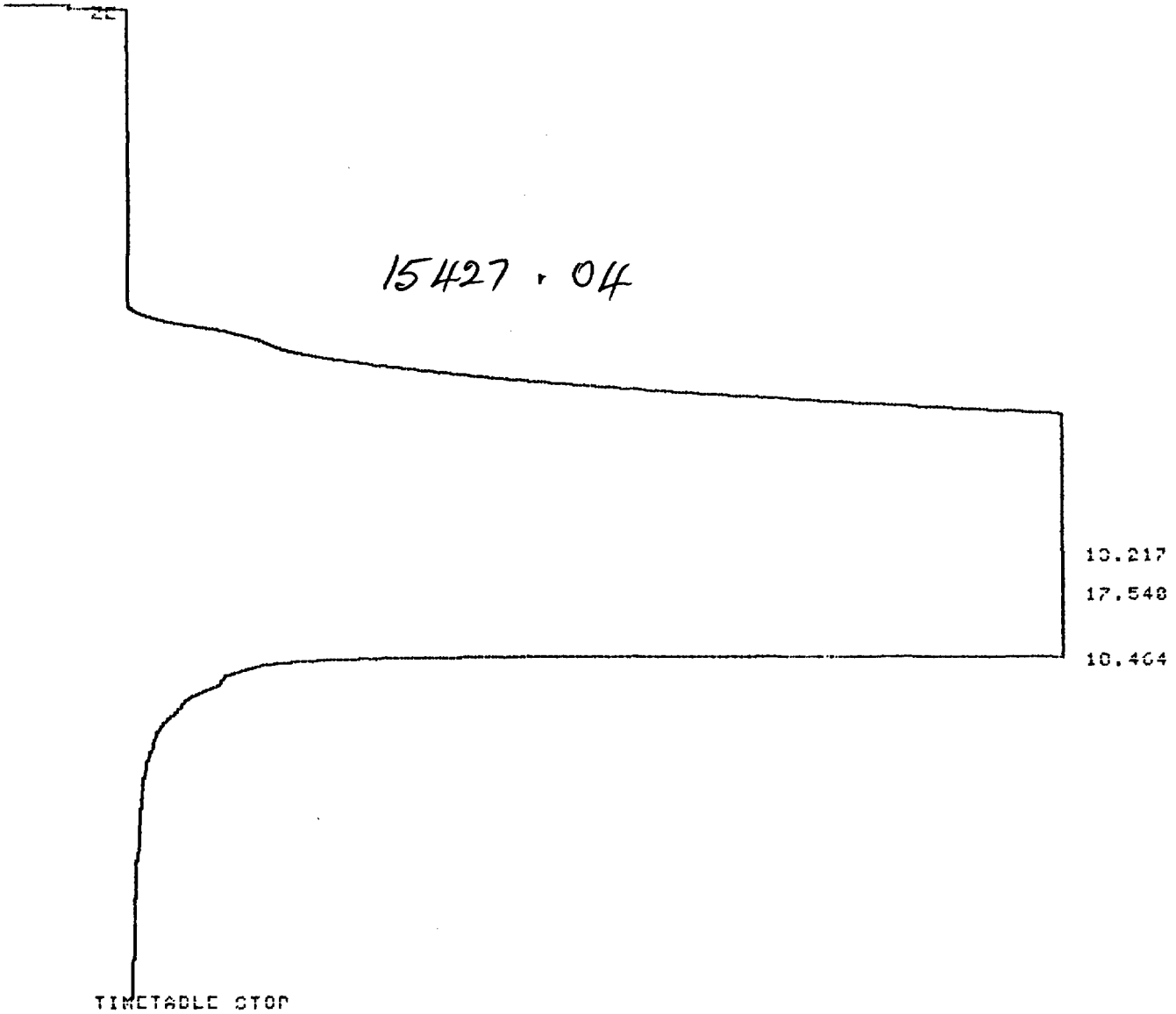

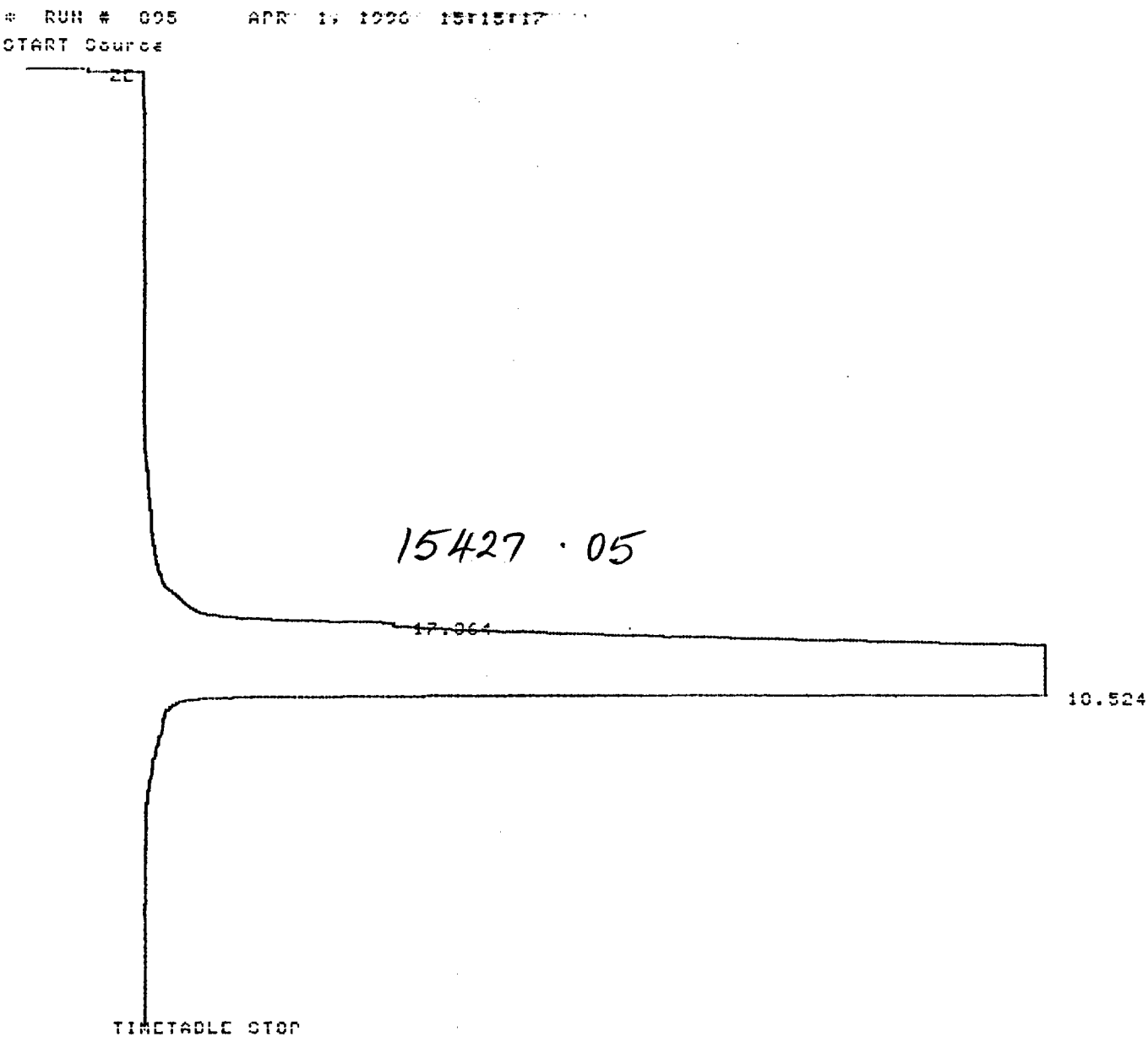

* RUN # 095 APR 1, 1996 15:15:17
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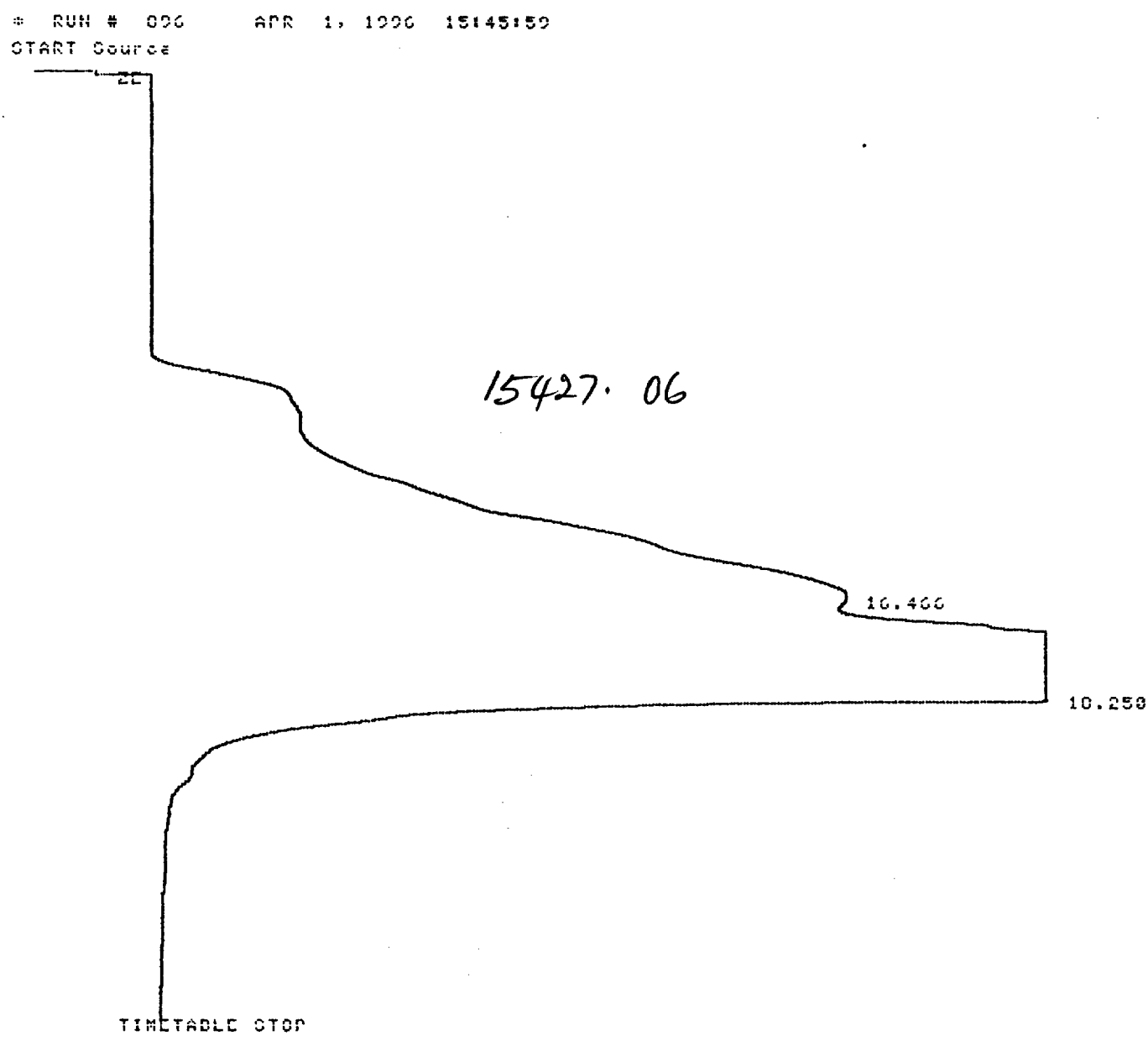
20
15427 · 05
17.064
10.524
TIMETABLE STOP



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15427.06
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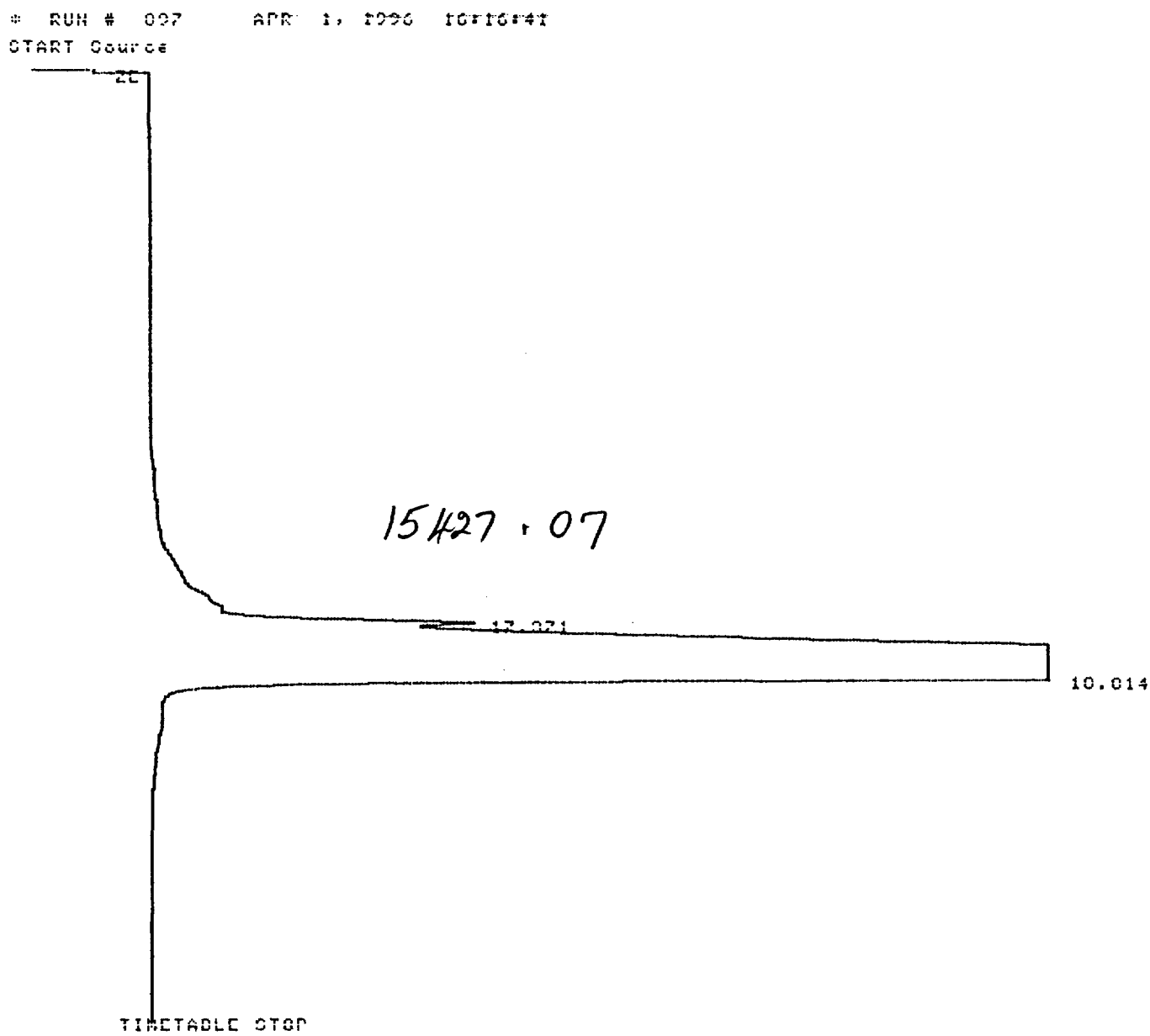

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ZE
15427.07
17.071
10.014
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BREAK

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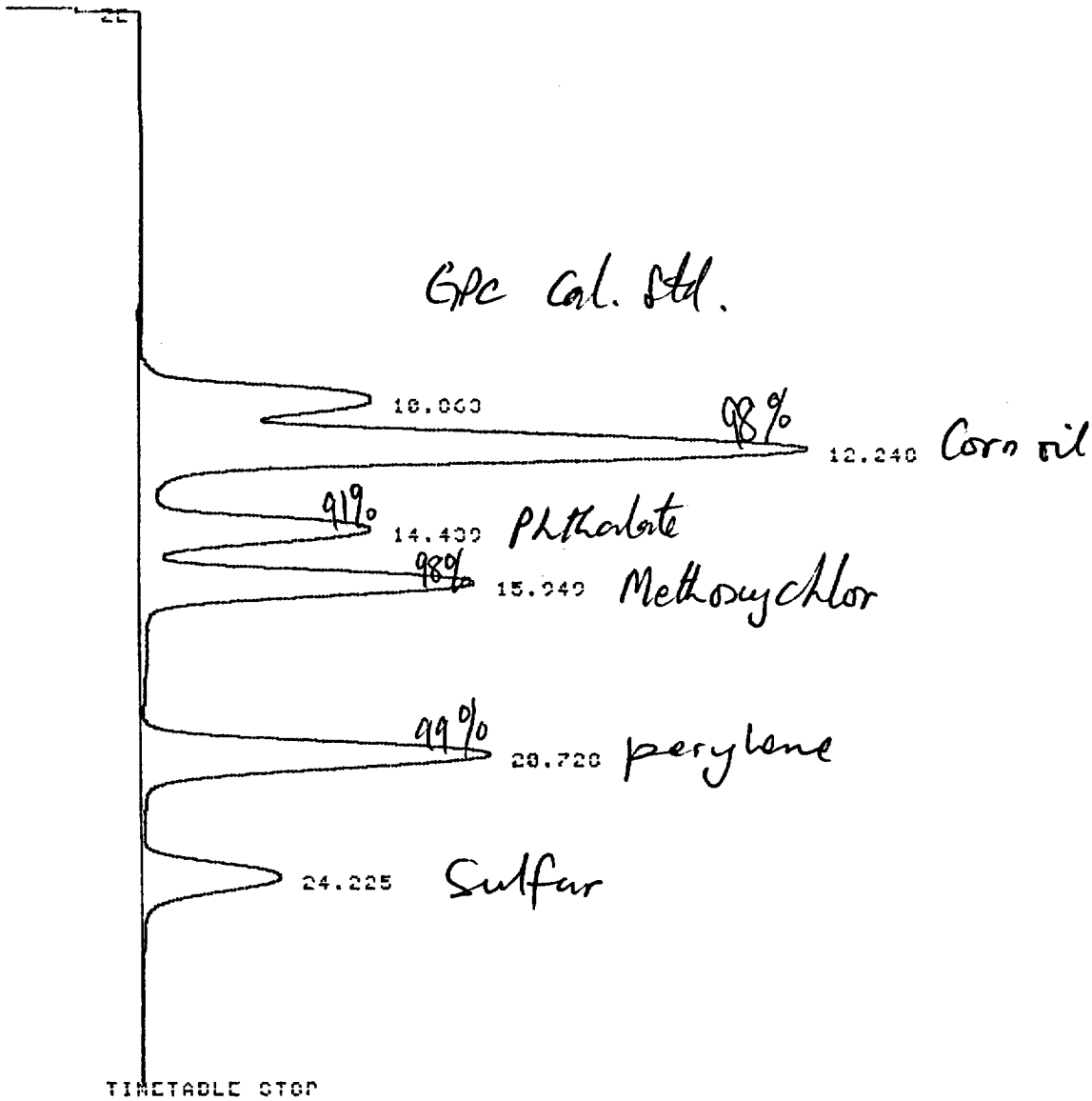


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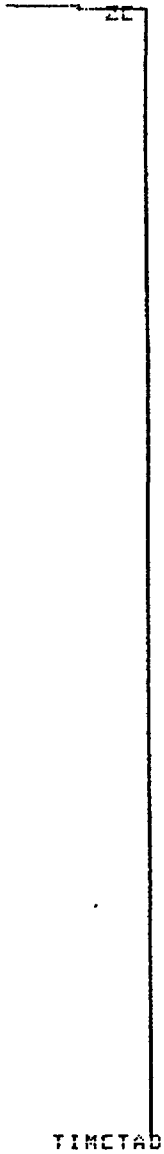

GPC BUK A

TIMETABLE STOP

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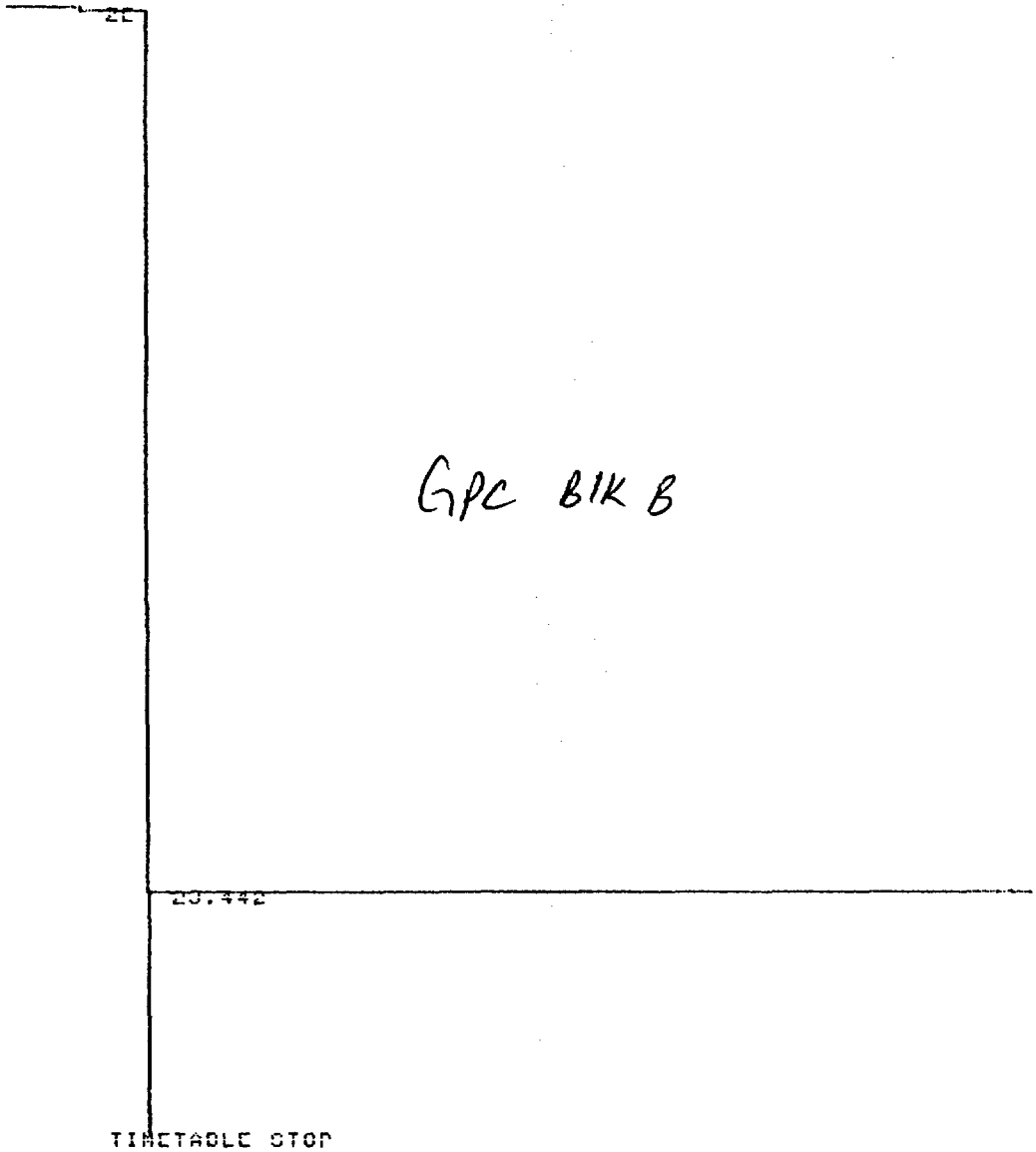

GPC BLK B

RUN # 987 APR 2, 1996 09:50:41

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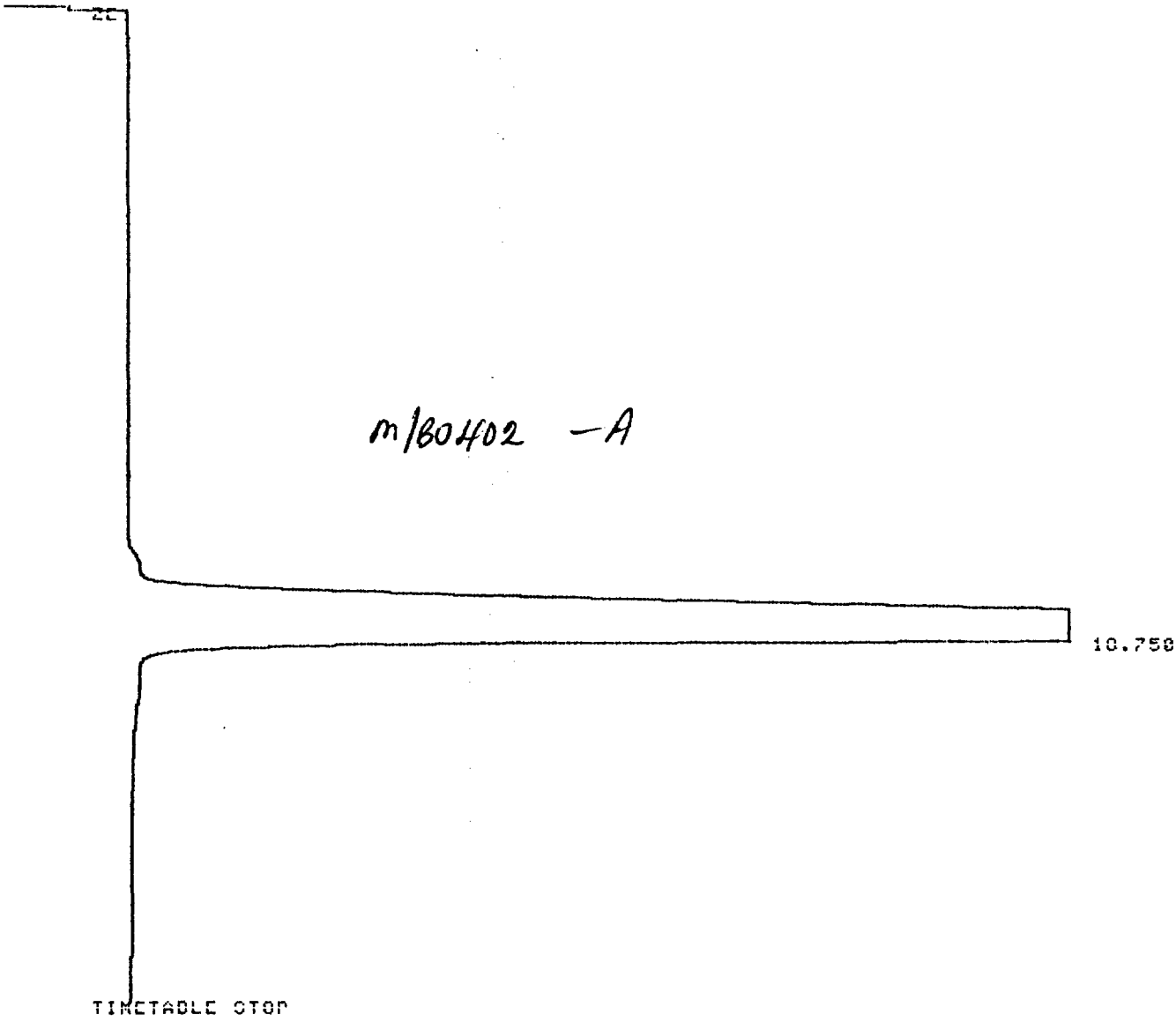

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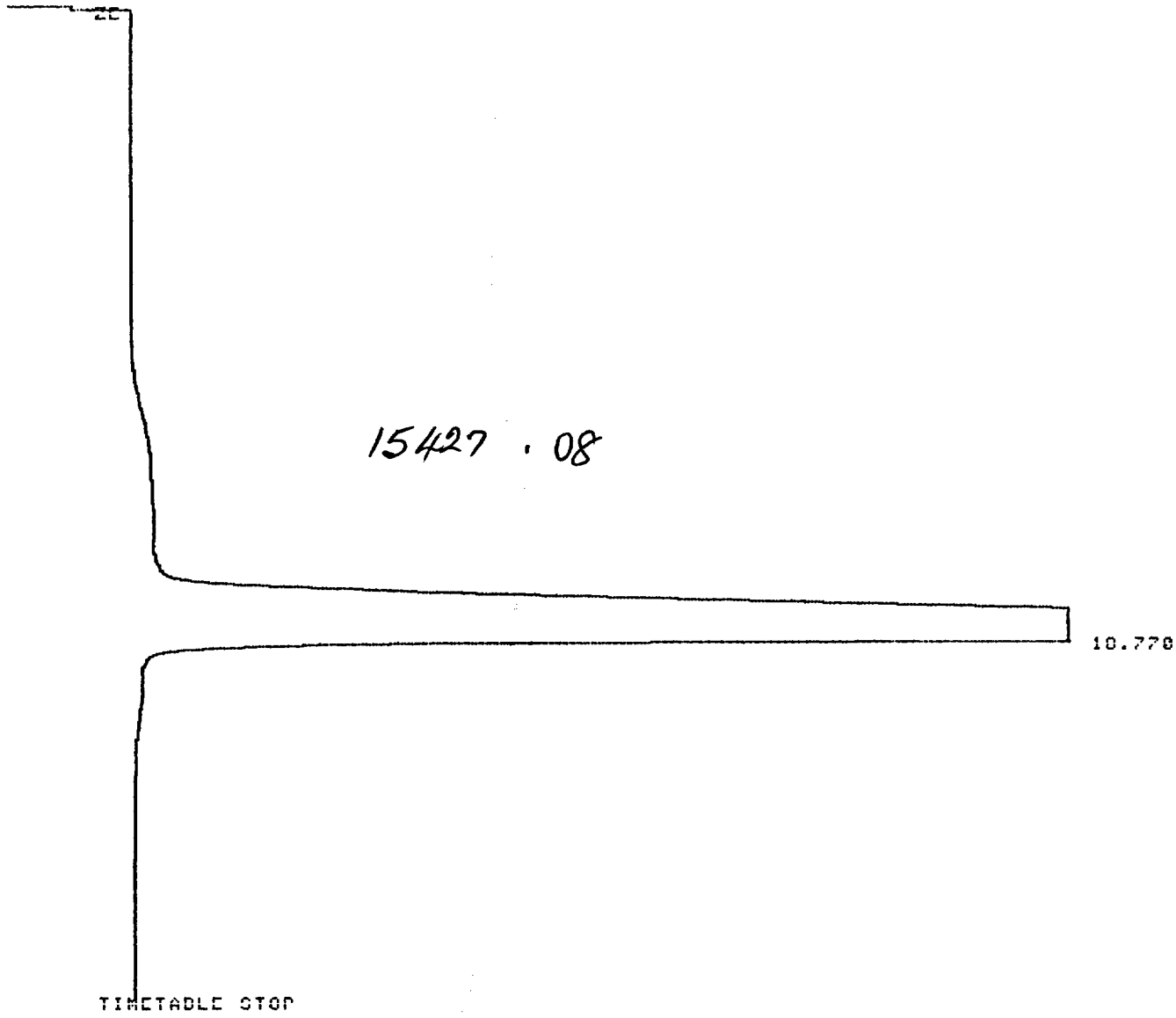

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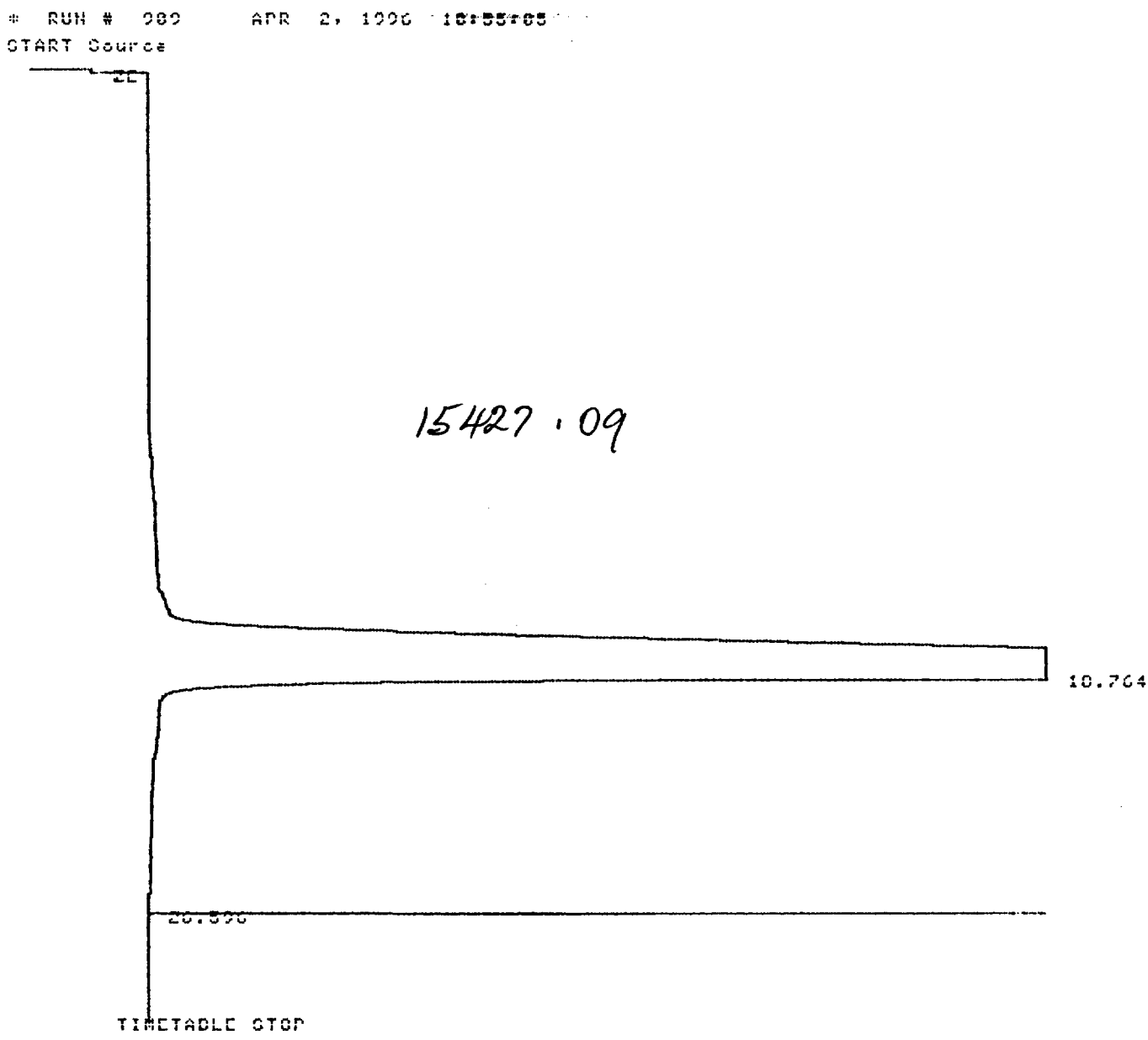
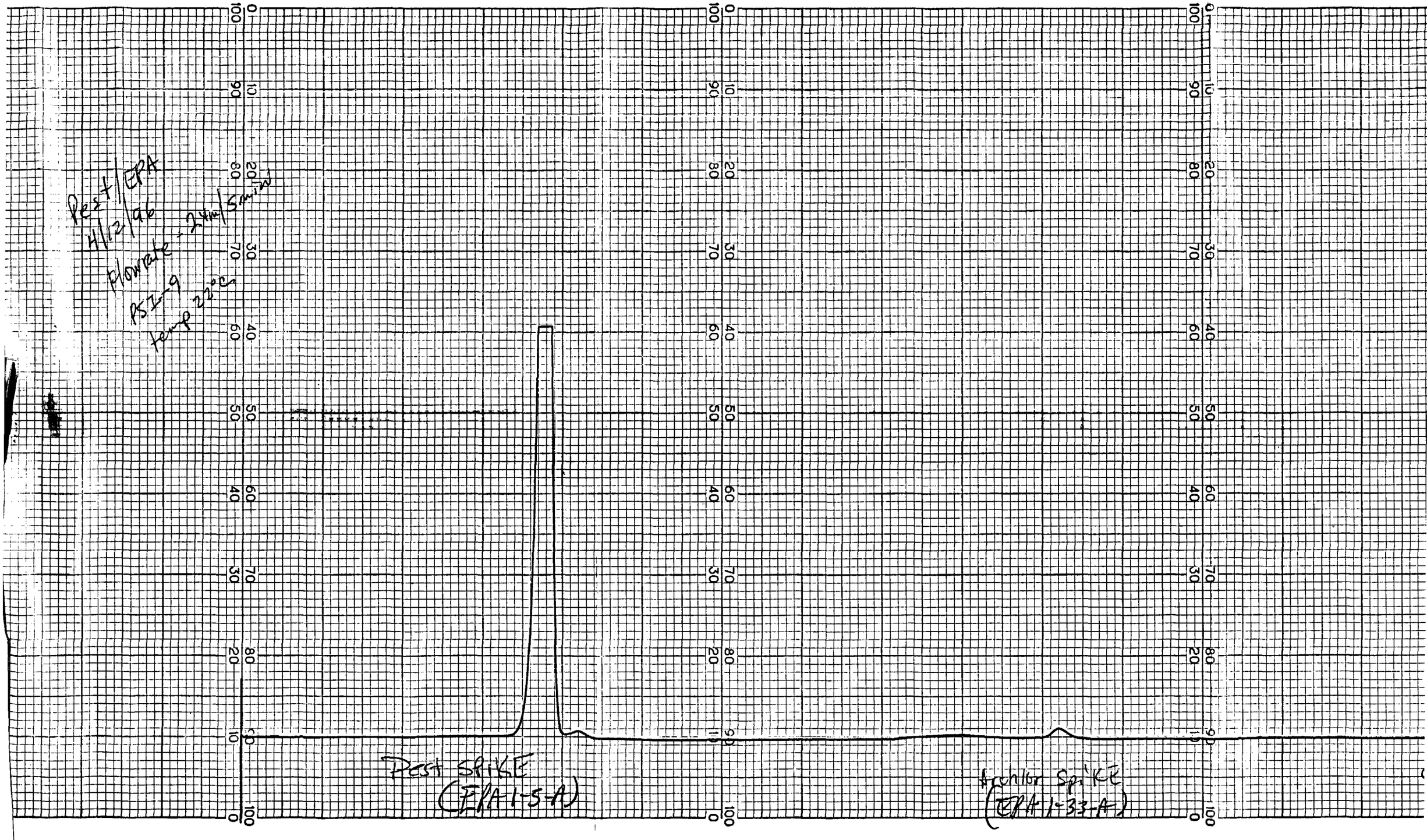



Pest/EPA
4/12/96
Flowrate - 24m/5min
PSI-9
temp 22°C
Pest SPIKE
(EPA 1-5-A)
Archlor Spike
(EPA 1-33-A)

Preservative: ice

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER41

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020882

Lab Sample Number:

Grab

Comp.

1048

03/27/96

S0-08

Preservative: ice

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER94

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020834

Lab Sample Number:

Designate

Grab

Comp.

Time: 0859

Month/Day/Year: 03/26/96

Station #: SE06

Project Code 1 CLP Case #: 24517

Preservative: ice

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER41

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020881

Lab Sample Number:

Designate: Grab / Comp.

Time: 1048

Month/Day/Year: 03/27/96

Station #: SO-08

Project Code 1 CLP Case #: 24517

Preservative: ice

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER95

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020828

Lab Sample Number:

Designate: Grab / Comp.

Time: 0835

Month/Day/Year: 03/26/96

Station #: SE-05

Project Code 1 CLP Case #: 24517

Preservative: ice

Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER93

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020844

Lab Sample Number:

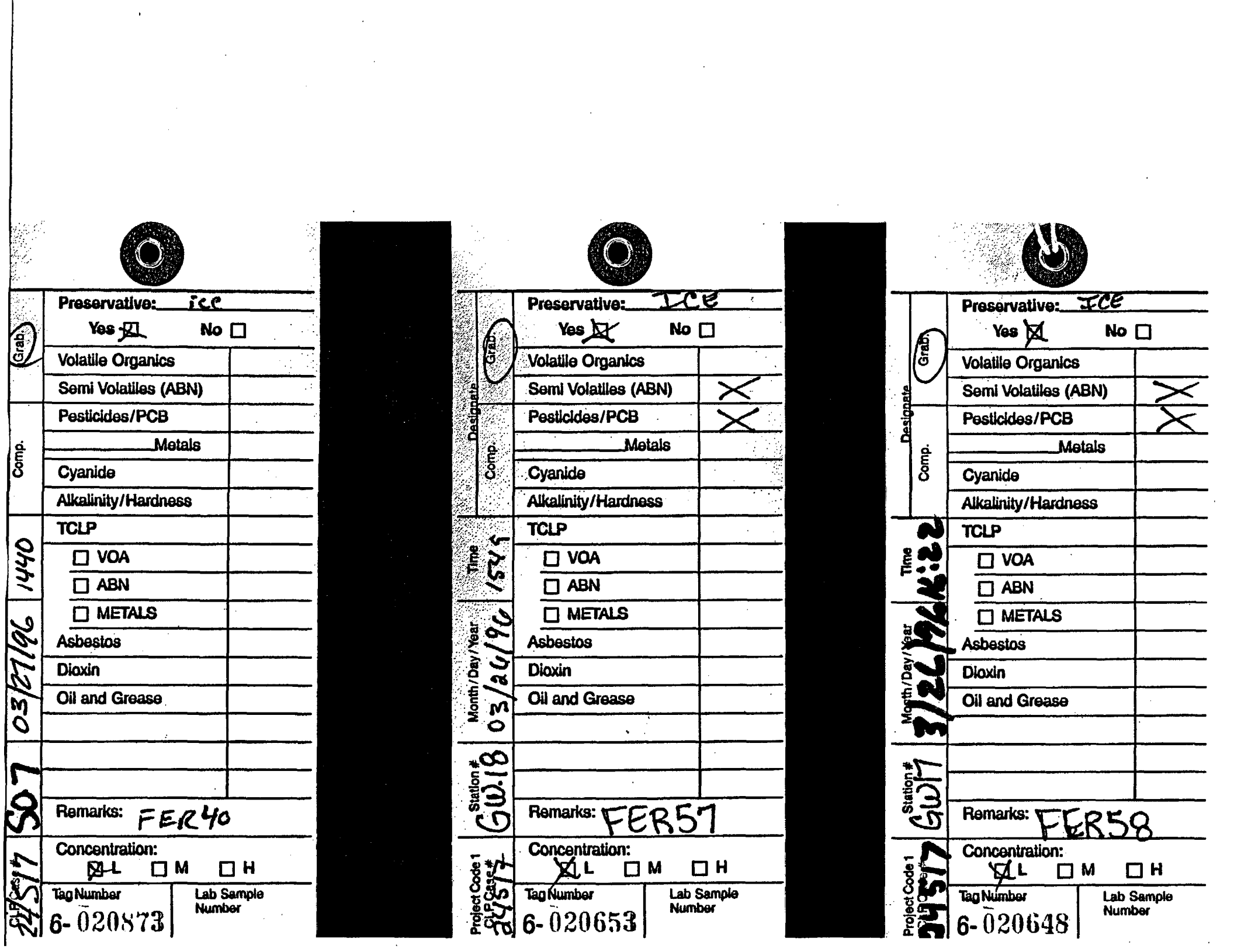
Designate: Grab / Comp.

Time: 0933

Month/Day/Year: 03/27/96

Station #: SO-02

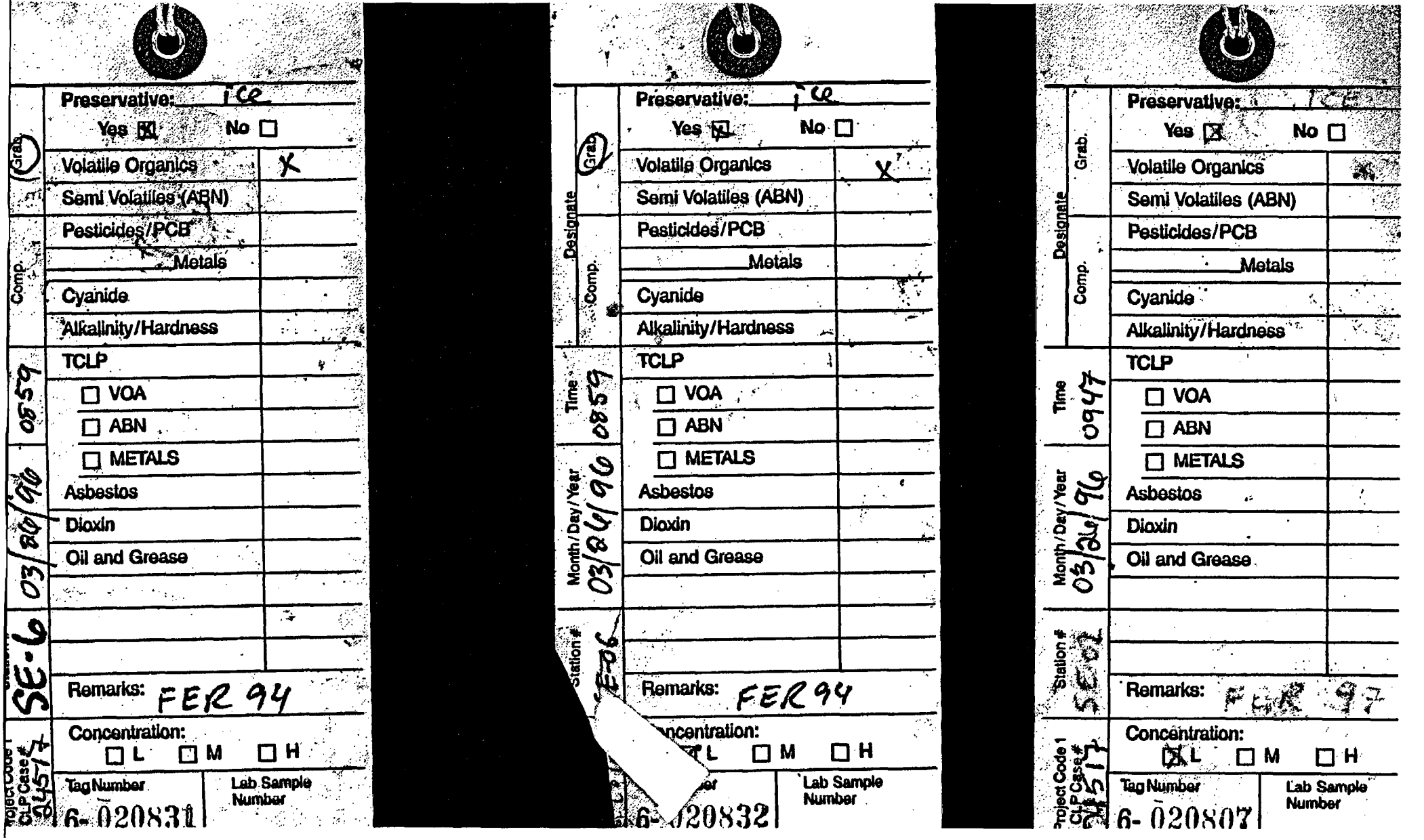
Project Code 1 CLP Case #: 24517



Grab.	Preservative: ice	
	Yes ☒ No ☐	
	Volatile Organics	
	Semi Volatiles (ABN)	
Comp.	Pesticides/PCB	
	Metals	
	Cyanide	
	Alkalinity/Hardness	
1440	TCLP	
	☐ VOA	
	☐ ABN	
03/27/96	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	
S07		
	Remarks: FER40	
CLP Case # 24517	Concentration: ☒ L ☐ M ☐ H	
	Tag Number 6-020873	Lab Sample Number

Designate Grab.	Preservative: ICE	
	Yes ☒ No ☐	
	Volatile Organics	
	Semi Volatiles (ABN)	X
Comp.	Pesticides/PCB	X
	Metals	
	Cyanide	
	Alkalinity/Hardness	
Time 1545	TCLP	
	☐ VOA	
	☐ ABN	
Month/Day/Year 03/26/96	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	
Station # GW18		
	Remarks: FER57	
Project Code 1 CLP Case # 24517	Concentration: ☒ L ☐ M ☐ H	
	Tag Number 6-020653	Lab Sample Number

Designate Grab.	Preservative: ICE	
	Yes ☒ No ☐	
	Volatile Organics	
	Semi Volatiles (ABN)	X
Comp.	Pesticides/PCB	X
	Metals	
	Cyanide	
	Alkalinity/Hardness	
Time 16:22	TCLP	
	☐ VOA	
	☐ ABN	
Month/Day/Year 3/26/96	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	
Station # GW17		
	Remarks: FER58	
Project Code 1 CLP Case # 24517	Concentration: ☒ L ☐ M ☐ H	
	Tag Number 6-020648	Lab Sample Number



Project Code 1 CLP Case # 24517

Station # SE-6

Comp. | Grab.

Preservative: ice

Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER 94

Concentration: ☐ L ☐ M ☐ H

Tag Number 6-020831

Lab Sample Number

Month/Day/Year 03/26/96

Time 0859

Station # SE-06

Designate

Grab.

Comp.

Preservative: ice

Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER 94

Concentration: ☐ L ☐ M ☐ H

Tag Number 6-020832

Lab Sample Number

Project Code 1 CLP Case # 24517

Station # SE-01

Comp. | Grab.

Designate

Preservative: ICE

Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER 97

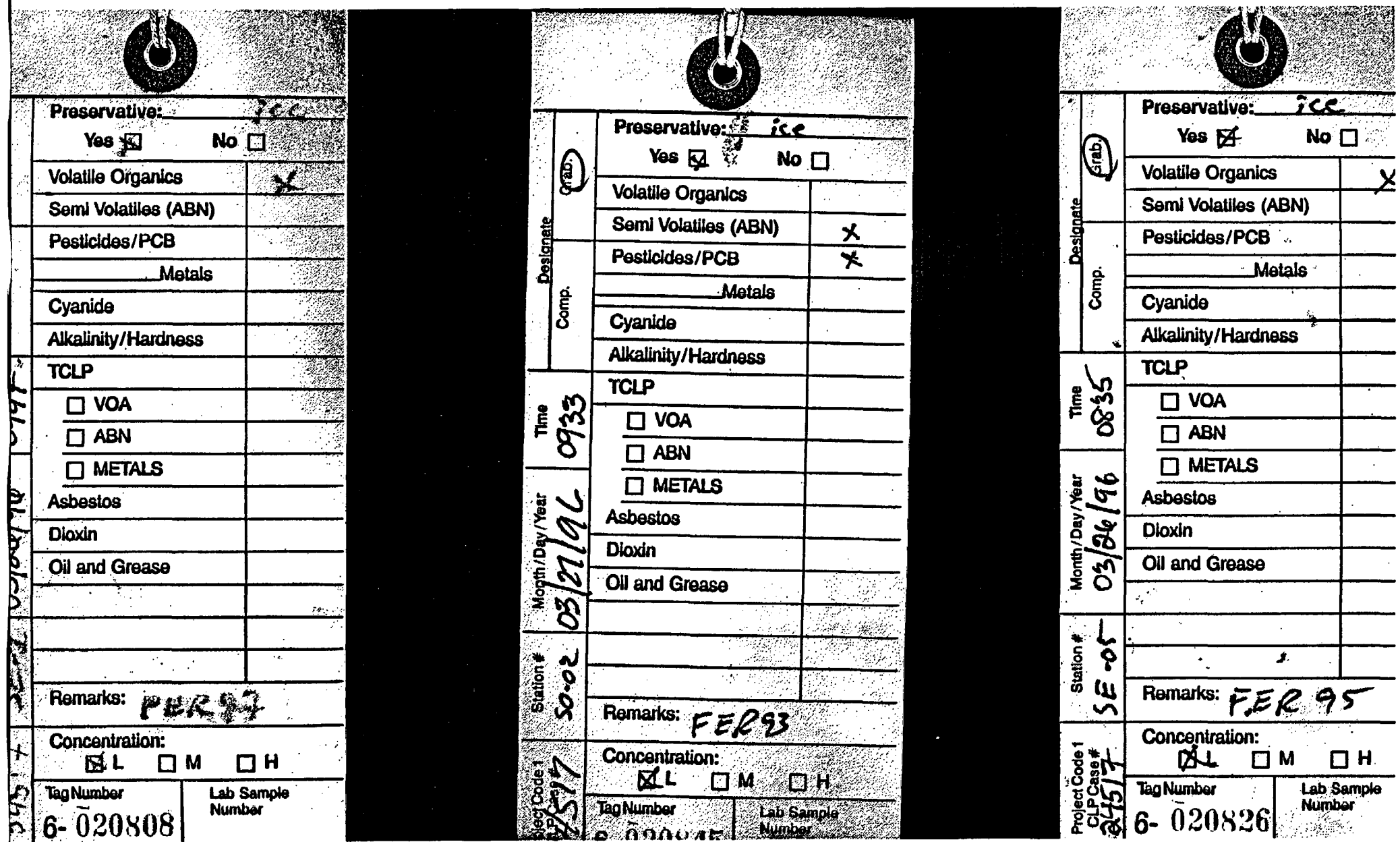
Concentration: ☒ L ☐ M ☐ H

Tag Number 6-020807

Lab Sample Number

Month/Day/Year 03/26/96

Time 0947



Preservative: ice

Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER 97

Concentration: ☒ L ☐ M ☐ H

Tag Number 6- 020808

Lab Sample Number

Designate: Grab. / Comp.

Time 0933

Month/Day/Year 03/27/96

Station # SO-02

Project Code 1 CLP Case # 24517

Preservative: ice

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER 93

Concentration: ☒ L ☐ M ☐ H

Tag Number 6- 020845

Lab Sample Number

Designate: Grab. / Comp.

Time 0835

Month/Day/Year 03/26/96

Station # SE-05

Project Code 1 CLP Case # 24517

Preservative: ice

Yes ☒ No ☐

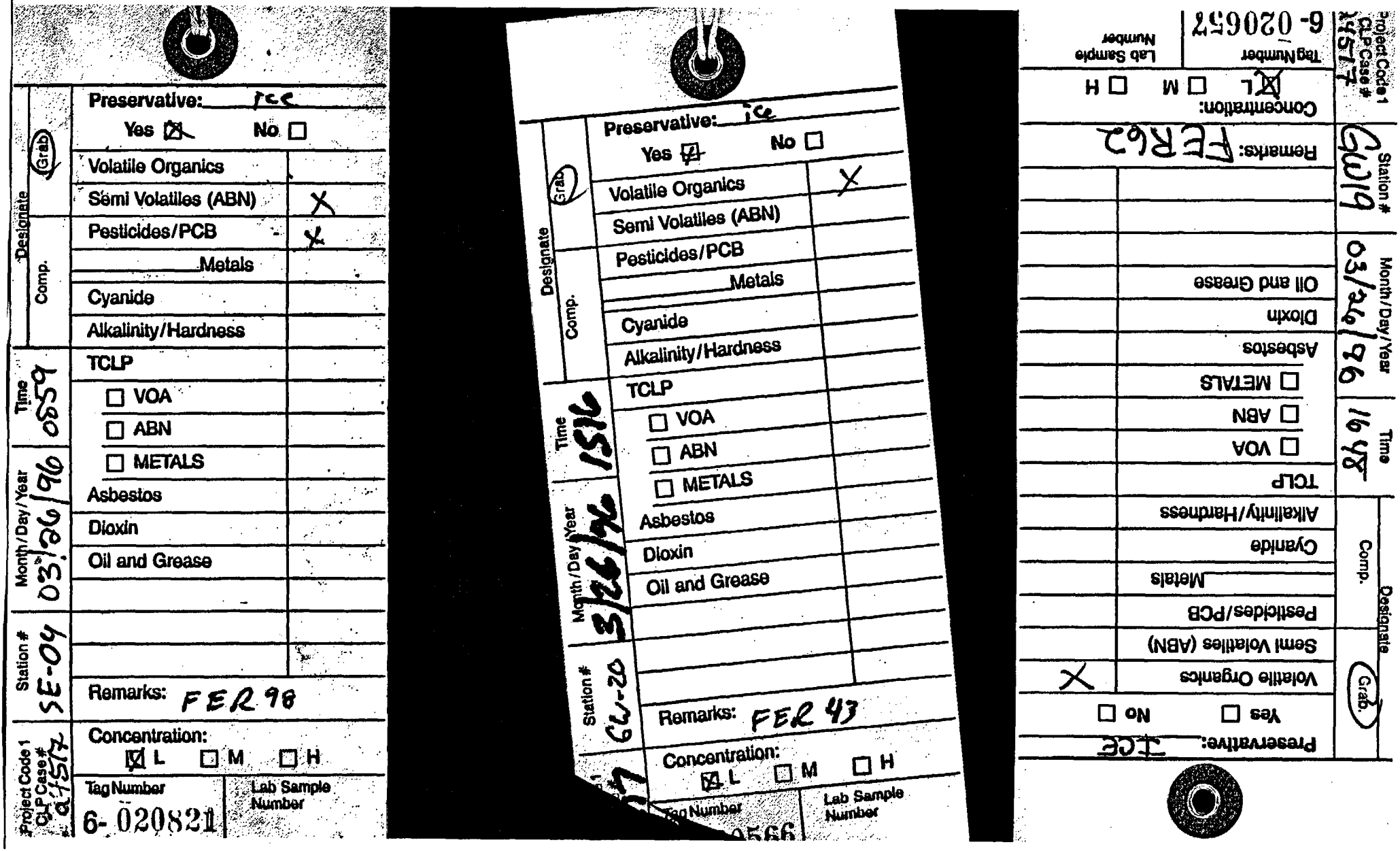
Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER 95

Concentration: ☒ L ☐ M ☐ H

Tag Number 6- 020826

Lab Sample Number



Project Code 1 / CLP Case # 4157
Station # SE-04
Month/Day/Year 03/26/96
Time 0850
Designate: Grab
Comp.

Preservative: Ice	
Yes ☒ No ☐	
Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	
Remarks: FER98	
Concentration: ☒ L ☐ M ☐ H	
Tag Number 6- 020821	Lab Sample Number

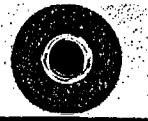
Project Code 1 / CLP Case # 4157
Station # GW-20
Month/Day/Year 3/26/96
Time 1516
Designate: Grab
Comp.

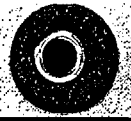
Preservative: Ice	
Yes ☑ No ☐	
Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	
Remarks: FER 43	
Concentration: ☒ L ☐ M ☐ H	
Tag Number	Lab Sample Number

Project Code 1 / CLP Case # 4157
Station # GW19
Month/Day/Year 03/26/96
Time 1648
Designate: Grab
Comp.

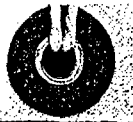
Preservative: Ice	
Yes ☐ No ☐	
Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	
Remarks: FER62	
Concentration: ☒ L ☐ M ☐ H	
Tag Number 6- 020657	Lab Sample Number

Designate	Grab	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	X
		Semi Volatiles (ABN)	
	Comp.	Pesticides/PCB	
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1516		TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year 03/26/96		Asbestos	
		Dioxin	
		Oil and Grease	
Station # GW-20			
		Remarks: FER43	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6-020567	Lab Sample Number



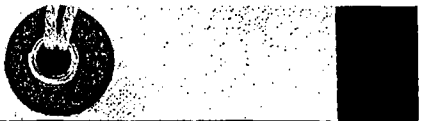


Designate	Grab	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	
		Semi Volatiles (ABN)	X
	Comp.	Pesticides/PCB	X
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1048		TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year 03/27/96		Asbestos	
		Dioxin	
		Oil and Grease	
Station # SO-03			
		Remarks: FER91	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6-020852	Lab Sample Number



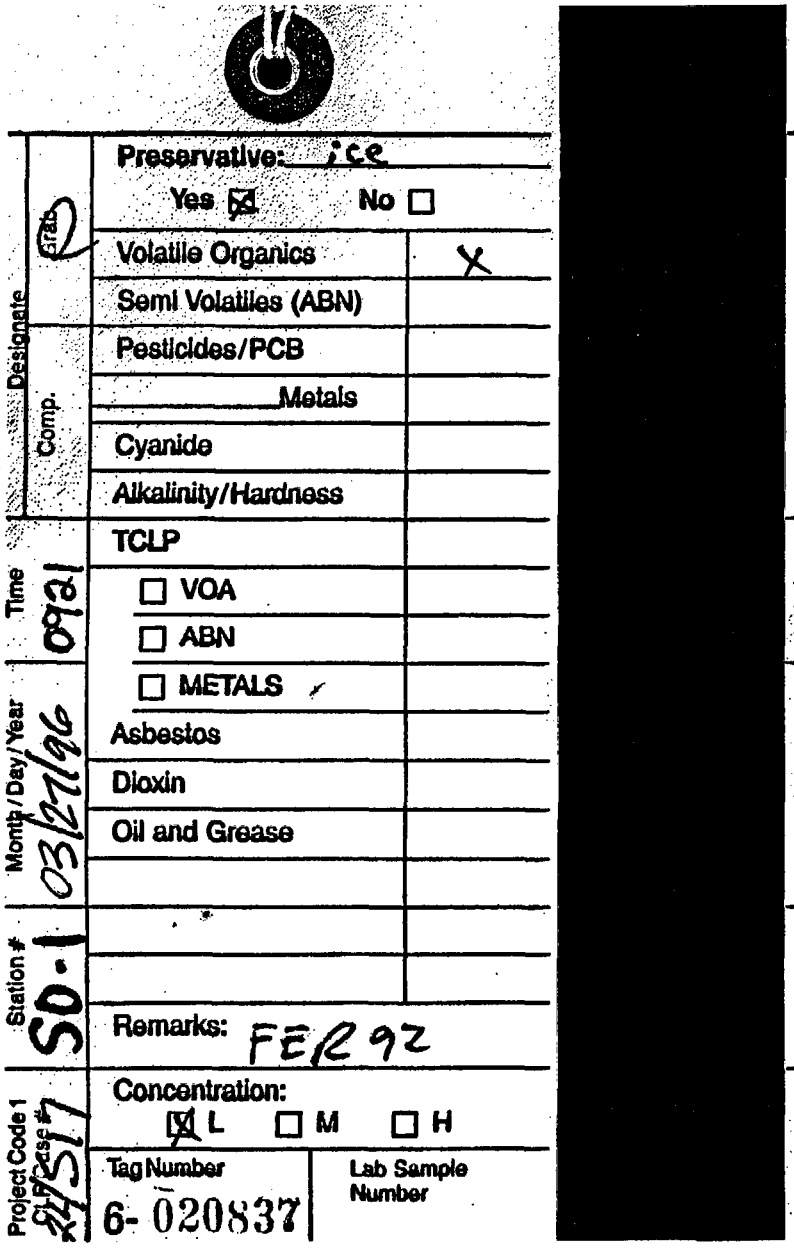
Designate	Grab	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	
		Semi Volatiles (ABN)	X
	Comp.	Pesticides/PCB	X
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1116		TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year 03/27/96		Asbestos	
		Dioxin	
		Oil and Grease	
Station # SO-04			
		Remarks: FER90	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6-020857	Lab Sample Number

Designate	Grab	Preservative: ice
		Yes ☒ No ☐
		Volatile Organics
		Semi Volatiles (ABN) X
	Comp.	Pesticides/PCB X
		Metals
		Cyanide
		Alkalinity/Hardness
Time	1116	TCLP
		☐ VOA
		☐ ABN
		☐ METALS
Month/Day/Year	03/27/96	Asbestos
		Dioxin
		Oil and Grease
Station #	SO-04	
		Remarks: FER 90
Project Code 1 CLP Case #	24517	Concentration: ☒ L ☐ M ☐ H
		Tag Number 6- 020858
		Lab Sample Number



Designate	Grab	Preservative: ice
		Yes ☒ No ☐
		Volatile Organics
		Semi Volatiles (ABN) X
	Comp.	Pesticides/PCB X
		Metals
		Cyanide
		Alkalinity/Hardness
Time	1008	TCLP
		☐ VOA
		☐ ABN
		☐ METALS
Month/Day/Year	03/26/96	Asbestos
		Dioxin
		Oil and Grease
Station #	SE-03	
		Remarks: FES ØØ
Project Code 1 CLP Case #	24517	Concentration: ☒ L ☐ M ☐ H
		Tag Number 6- 020815
		Lab Sample Number

Designate	Grab	Preservative: ice
		Yes ☒ No ☐
		Volatile Organics X
		Semi Volatiles (ABN)
	Comp.	Pesticides/PCB
		Metals
		Cyanide
		Alkalinity/Hardness
Time	0921	TCLP
		☐ VOA
		☐ ABN
		☐ METALS
Month/Day/Year	03/27/96	Asbestos
		Dioxin
		Oil and Grease
Station #	SO-01	
		Remarks: FER 92
Project Code 1 CLP Case #	24517	Concentration: ☒ L ☐ M ☐ H
		Tag Number 6- 020838
		Lab Sample Number

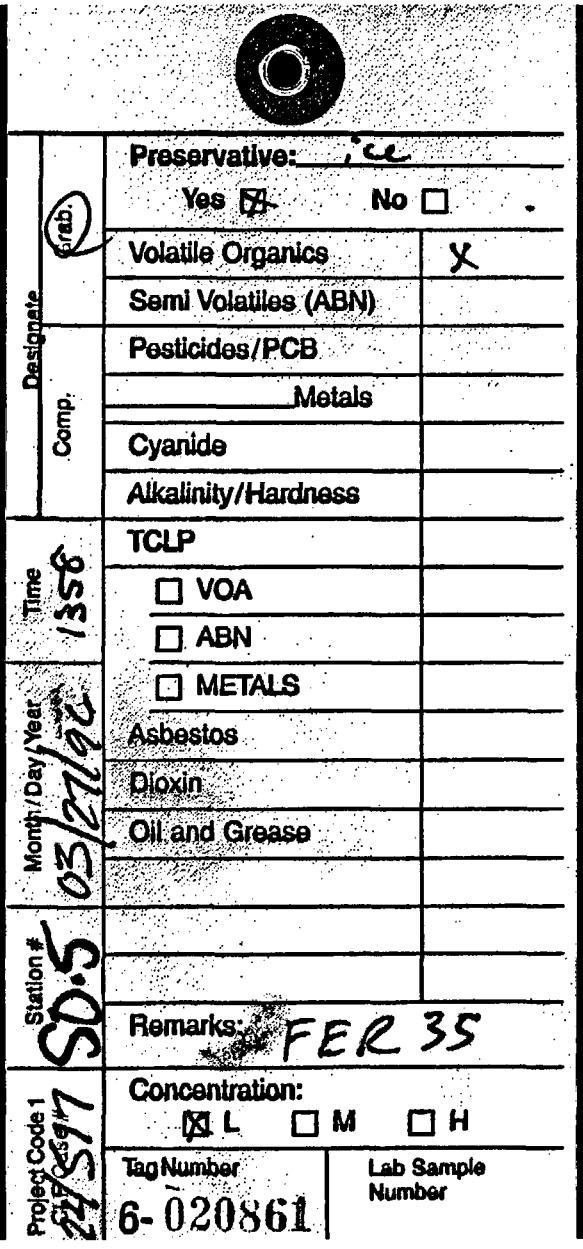


Preservative: ice
Yes ☒ No ☐

Designate Comp. / Grab.

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 0921
Month/Day/Year: 03/27/96
Station #: SD-1
Project Code 1 / CLP Case #: 24517
Remarks: FER92
Concentration: ☒ L ☐ M ☐ H
Tag Number: 6- 020837
Lab Sample Number:

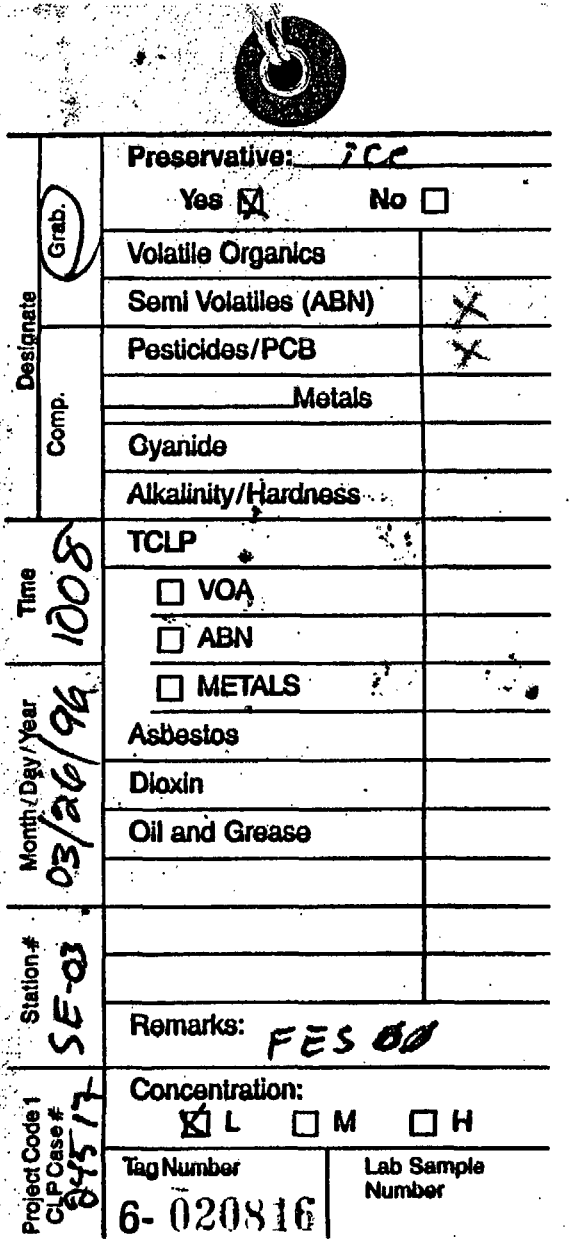


Preservative: ice
Yes ☒ No ☐

Designate Comp. / Grab.

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1358
Month/Day/Year: 03/27/96
Station #: SD-5
Project Code 1 / CLP Case #: 24517
Remarks: FER35
Concentration: ☒ L ☐ M ☐ H
Tag Number: 6- 020861
Lab Sample Number:

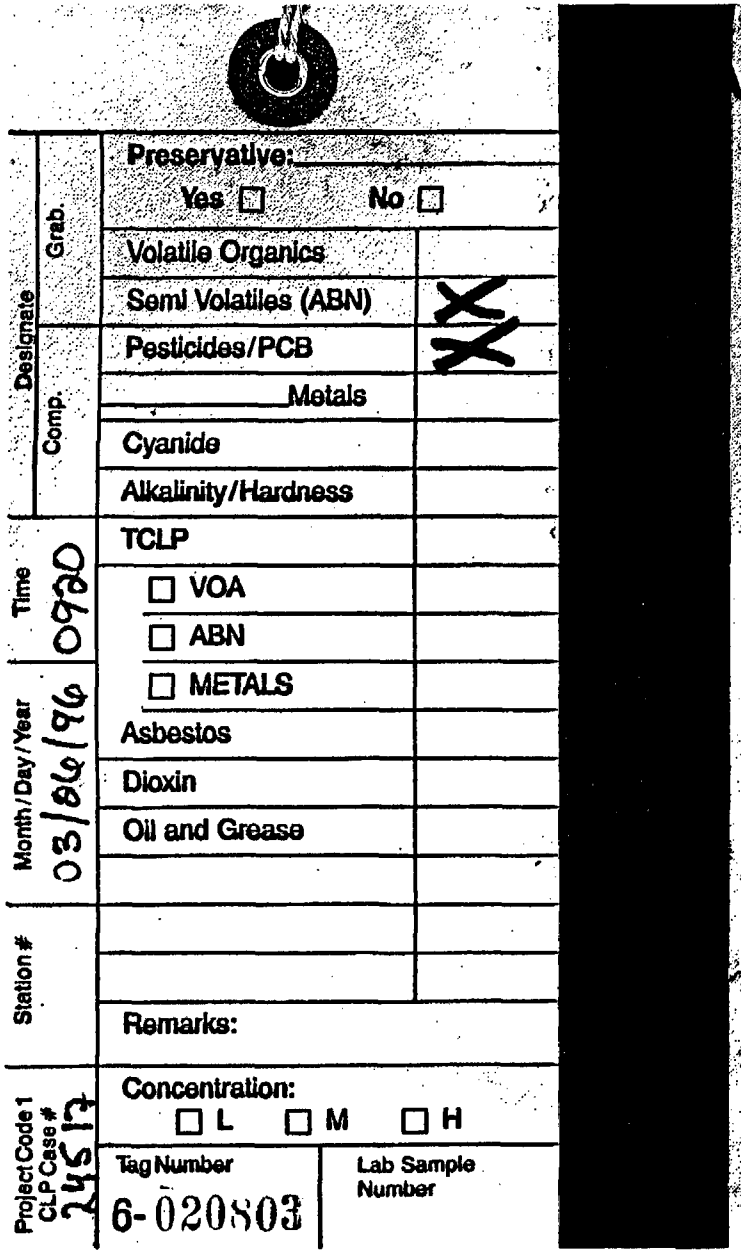


Preservative: ice
Yes ☒ No ☐

Designate Comp. / Grab.

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1008
Month/Day/Year: 03/26/96
Station #: SE-03
Project Code 1 / CLP Case #: 24517
Remarks: FES00
Concentration: ☒ L ☐ M ☐ H
Tag Number: 6- 020816
Lab Sample Number:

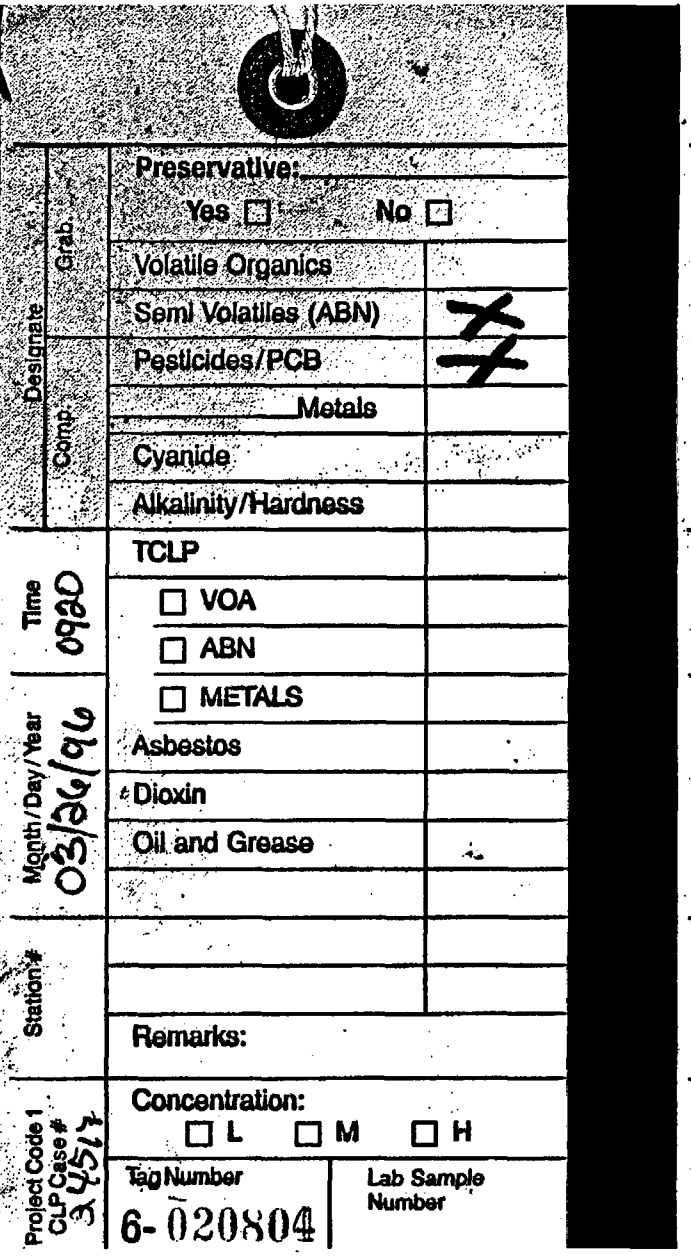


Designate: Grab / Comp.

Preservative: _____
Yes ☐ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 0920
Month/Day/Year: 03/26/96
Station #:
Remarks:
Concentration: ☐ L ☐ M ☐ H
Project Code 1
CLP Case # 24512
Tag Number: 6-020803
Lab Sample Number:

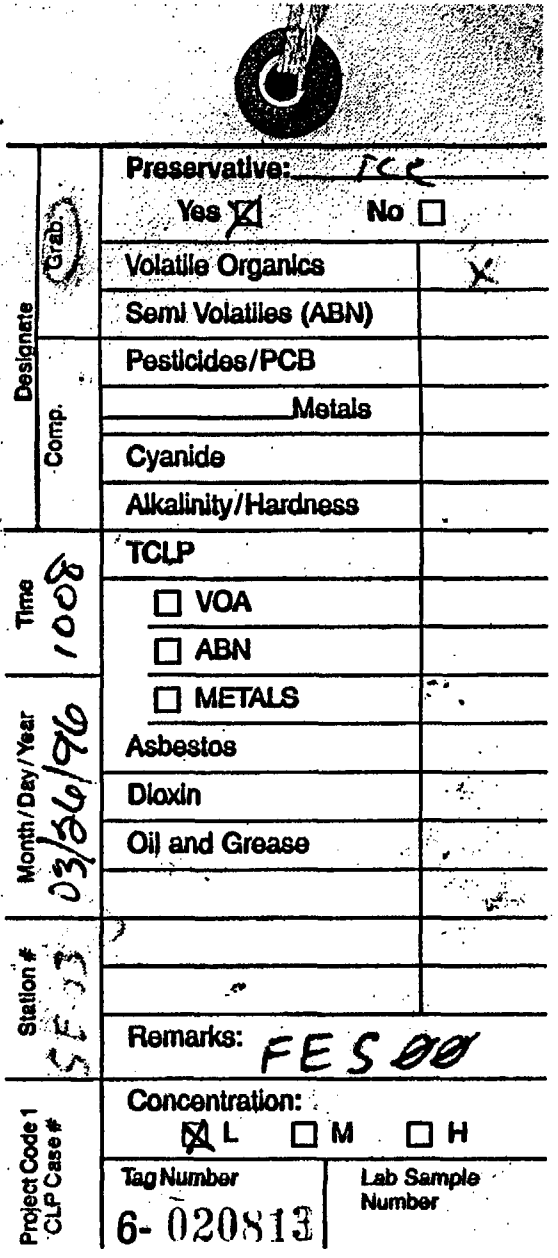


Designate: Grab / Comp.

Preservative: _____
Yes ☐ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 0920
Month/Day/Year: 03/26/96
Station #:
Remarks:
Concentration: ☐ L ☐ M ☐ H
Project Code 1
CLP Case # 24512
Tag Number: 6-020804
Lab Sample Number:

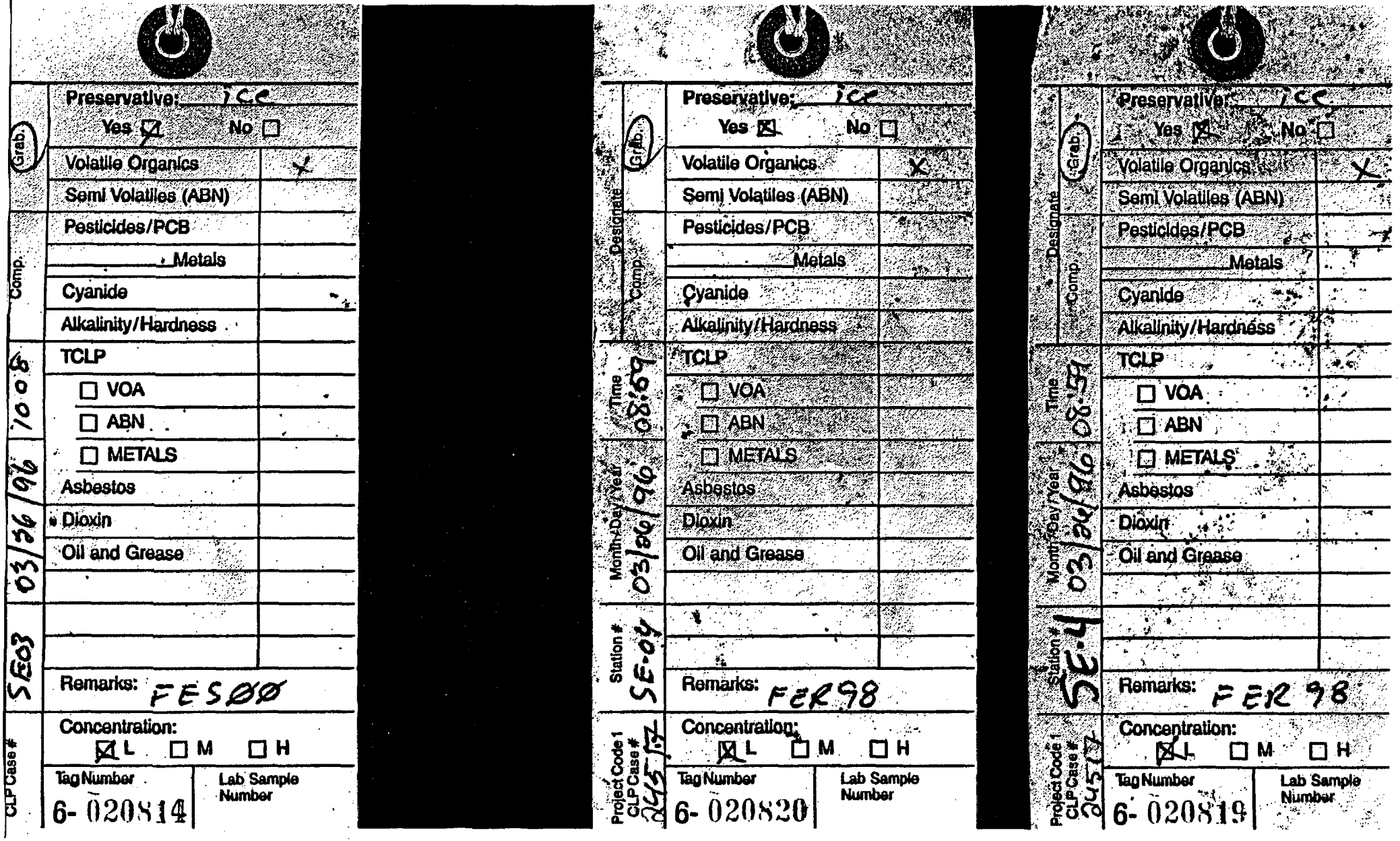


Designate: Grab / Comp.

Preservative: ICE
Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

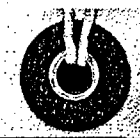
Time: 1008
Month/Day/Year: 03/26/96
Station #: SED 3
Remarks: FES 00
Concentration: ☒ L ☐ M ☐ H
Project Code 1
CLP Case #
Tag Number: 6-020813
Lab Sample Number:



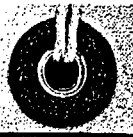
Grab.	Preservative: ice	
	Yes ☒ No ☐	
	Volatile Organics	X
	Semi Volatiles (ABN)	
Comp.	Pesticides/PCB	
	Metals	
	Cyanide	
	Alkalinity/Hardness	
1008	TCLP	
	☐ VOA	
	☐ ABN	
03/26/96	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	
SE03		
	Remarks: FES00	
CLP Case #	Concentration: ☒ L ☐ M ☐ H	
	Tag Number 6- 020814	Lab Sample Number

Designate Grab.	Preservative: ice	
	Yes ☒ No ☐	
	Volatile Organics	X
	Semi Volatiles (ABN)	
Comp.	Pesticides/PCB	
	Metals	
	Cyanide	
	Alkalinity/Hardness	
Time 08:59	TCLP	
	☐ VOA	
	☐ ABN	
Month/Day/Year 03/26/96	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	
Station # SE-04		
	Remarks: FER98	
Project Code 1 CLP Case # 24517	Concentration: ☒ L ☐ M ☐ H	
	Tag Number 6- 020820	Lab Sample Number

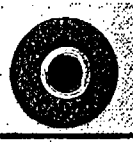
Designate Grab.	Preservative: ice	
	Yes ☒ No ☐	
	Volatile Organics	X
	Semi Volatiles (ABN)	
Comp.	Pesticides/PCB	
	Metals	
	Cyanide	
	Alkalinity/Hardness	
Time 08:59	TCLP	
	☐ VOA	
	☐ ABN	
Month/Day/Year 03/26/96	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	
Station # SE-4		
	Remarks: FER 98	
Project Code 1 CLP Case # 24517	Concentration: ☒ L ☐ M ☐ H	
	Tag Number 6- 020819	Lab Sample Number



Designate	Grab	Preservative: ice
		Yes ☒ No ☐
		Volatile Organics: X
		Semi Volatiles (ABN)
Comp.		Pesticides/PCB
		Metals
		Cyanide
		Alkalinity/Hardness
Time	1358	TCLP
		☐ VOA
		☐ ABN
Month/Day/Year	03/27/96	☐ METALS
		Asbestos
		Dioxin
		Oil and Grease
Station #	50-05	
		Remarks: FER 35
Project Code 1 CLP Case #	24517	Concentration: ☒ L ☐ M ☐ H
		Tag Number: 6-020862
		Lab Sample Number

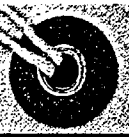


Designate	Grab	Preservative: ice
		Yes ☒ No ☐
		Volatile Organics: X
		Semi Volatiles (ABN)
Comp.		Pesticides/PCB
		Metals
		Cyanide
		Alkalinity/Hardness
Time	1116	TCLP
		☐ VOA
		☐ ABN
Month/Day/Year	03/27/96	☐ METALS
		Asbestos
		Dioxin
		Oil and Grease
Station #	50-04	
		Remarks: FER 90
Project Code 1 CLP Case #	24517	Concentration: ☒ L ☐ M ☐ H
		Tag Number: 6-020856
		Lab Sample Number



Designate	Grab	Preservative: ICE
		Yes ☒ No ☐
		Volatile Organics: X
		Semi Volatiles (ABN)
Comp.		Pesticides/PCB
		Metals
		Cyanide
		Alkalinity/Hardness
Time	17:14	TCLP
		☐ VOA
		☐ ABN
Month/Day/Year	3/26/96	☐ METALS
		Asbestos
		Dioxin
		Oil and Grease
Station #	FB2	
		Remarks: FES98
Project Code 1 CLP Case #	24517	Concentration: ☒ L ☐ M ☐ H
		Tag Number: 6-020599
		Lab Sample Number

Designate	Grab.	Preservative: ICE	
		Yes ☒ No ☐	
		Volatile Organics	X
		Semi Volatiles (ABN)	
	Comp.	Pesticides/PCB	
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1448		TCLP	
		☐ VOA	
		☐ ABN	
Month/Day/Year 03/26/96		☐ METALS	
		Asbestos	
		Dioxin	
		Oil and Grease	
Station # GW19			
		Remarks: FER62	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6- 020656	Lab Sample Number



Designate	Grab.	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	X
		Semi Volatiles (ABN)	
	Comp.	Pesticides/PCB	
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1116		TCLP	
		☐ VOA	
		☐ ABN	
Month/Day/Year 03/27/96		☐ METALS	
		Asbestos	
		Dioxin	
		Oil and Grease	
Station # SO-4			
		Remarks: FER 90	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6- 020855	Lab Sample Number

Designate	Grab.	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	X
		Semi Volatiles (ABN)	
	Comp.	Pesticides/PCB	
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1440		TCLP	
		☐ VOA	
		☐ ABN	
Month/Day/Year 03/27/96		☐ METALS	
		Asbestos	
		Dioxin	
		Oil and Grease	
Station # SO-02			
		Remarks: FER 40	
Project Code 1 CLP Case #		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6- 020874	Lab Sample Number

Designate	Grab.	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	
		Semi Volatiles (ABN)	X
	Comp.	Pesticides/PCB	X
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 0921		TCLP	
		☐ VOA	
		☐ ABN	
Month/Day/Year 03/27/96		☐ METALS	
		Asbestos	
		Dioxin	
		Oil and Grease	
Station # SO-01			
		Remarks: FER92	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6- 020839	Lab Sample Number

Designate	Grab.	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	
		Semi Volatiles (ABN)	X
	Comp.	Pesticides/PCB	X
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1440		TCLP	
		☐ VOA	
		☐ ABN	
Month/Day/Year 03/27/96		☐ METALS	
		Asbestos	
		Dioxin	
		Oil and Grease	
Station # SO-07			
		Remarks: FER40	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6- 020876	Lab Sample Number

Designate	Grab.	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	X
		Semi Volatiles (ABN)	
	Comp.	Pesticides/PCB	
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1419		TCLP	
		☐ VOA	
		☐ ABN	
Month/Day/Year 03/27/96		☐ METALS	
		Asbestos	
		Dioxin	
		Oil and Grease	
Station # SO-6			
		Remarks: FER34	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6- 020867	Lab Sample Number

Designate: Grab / Comp.

Preservative: ice

Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1419

Month/Day/Year: 03/27/96

Station #: SO-06

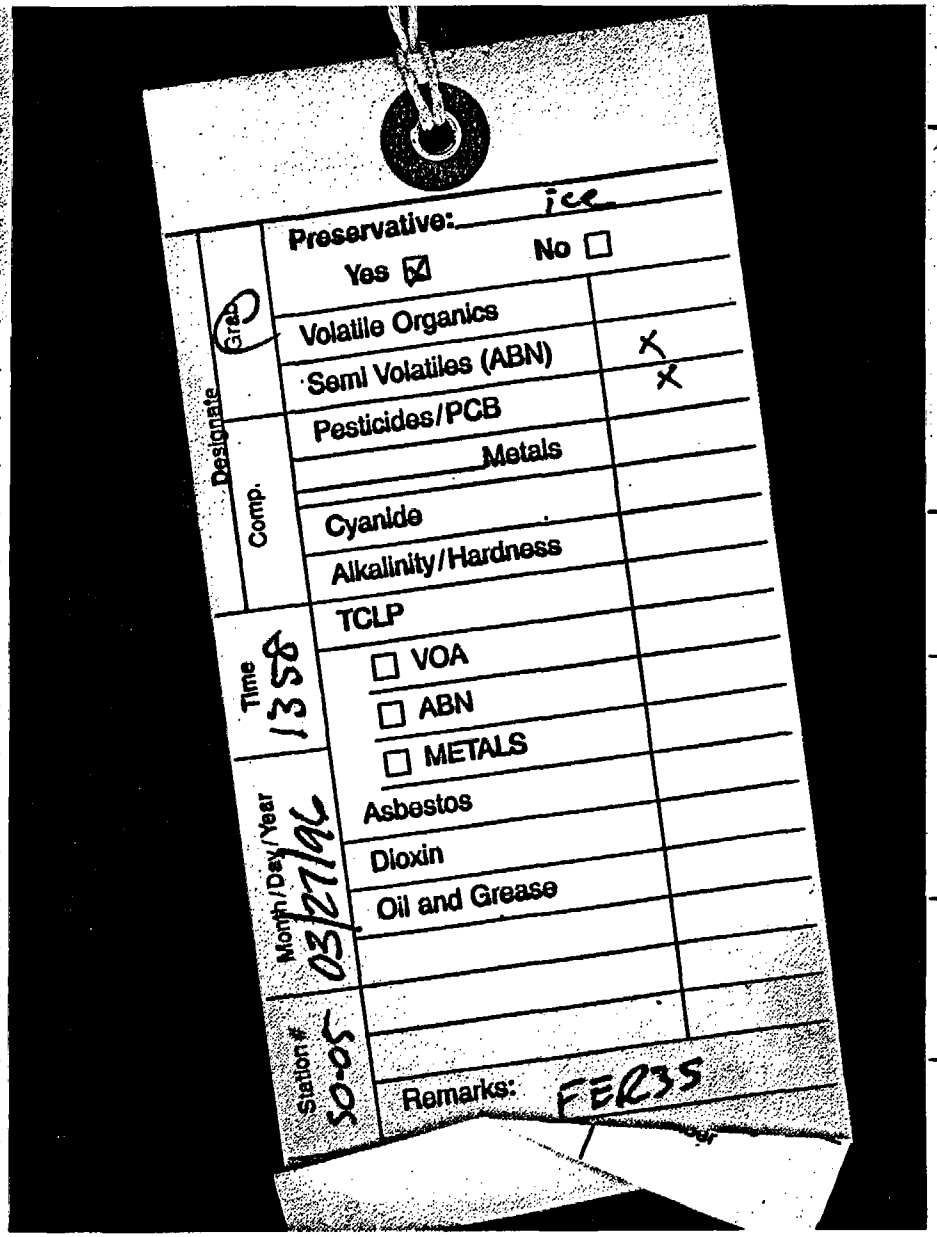
Project Code 1: CLP Case # 24517

Remarks: FER34

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6- 020868

Lab Sample Number:



Designate: Grab / Comp.

Preservative: ice

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1358

Month/Day/Year: 03/27/96

Station #: SO-05

Remarks: FER35

Designate: Grab / Comp.

Preservative: ice

Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 0933

Month/Day/Year: 03/27/96

Station #: SD-2

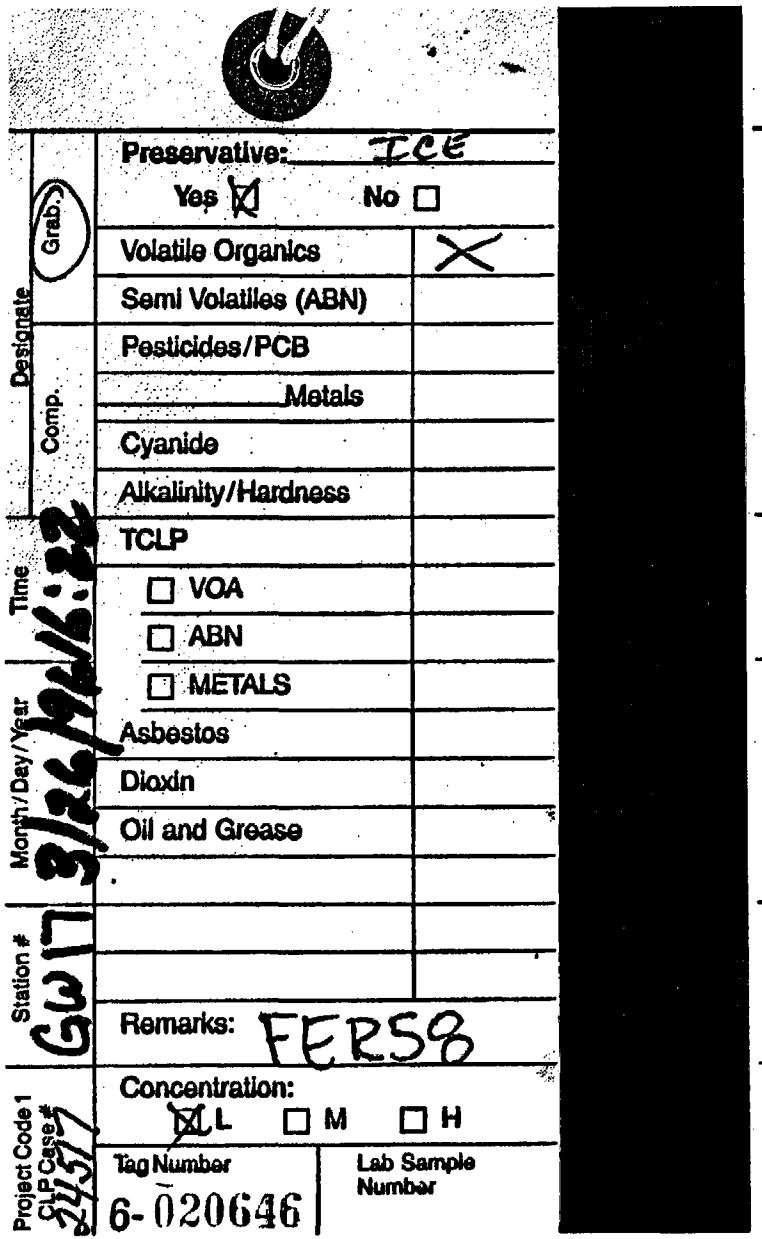
Project Code 1: CLP Case # 24517

Remarks: FER93

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6- 020843

Lab Sample Number:



Preservative: ICE

Yes ☒ No ☐

Designate		
Grab.	Volatile Organics	X
	Semi Volatiles (ABN)	
Comp.	Pesticides/PCB	
	Metals	
	Cyanide	
	Alkalinity/Hardness	
	TCLP	
	☐ VOA	
	☐ ABN	
	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	

Time: 16:22

Month/Day/Year: 3/26/96

Station #: GW17

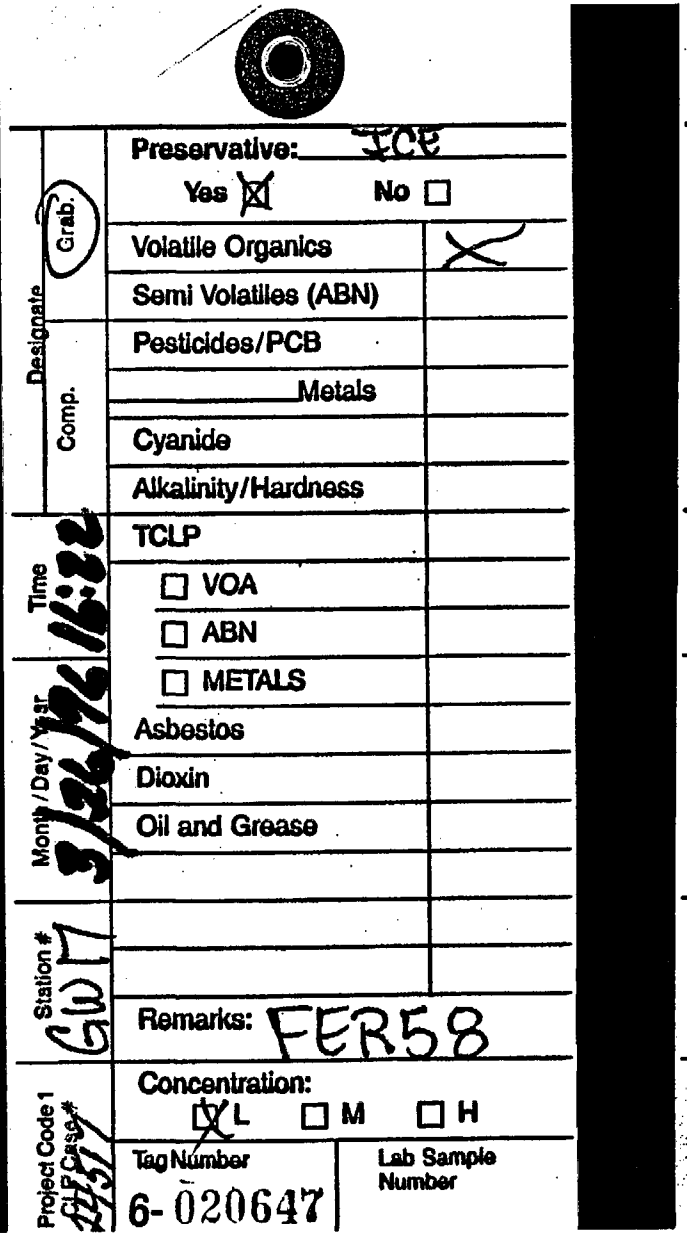
Project Code 1 CLP Case #: 24517

Remarks: FER58

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020646

Lab Sample Number:



Preservative: ICE

Yes ☒ No ☐

Designate		
Grab.	Volatile Organics	X
	Semi Volatiles (ABN)	
Comp.	Pesticides/PCB	
	Metals	
	Cyanide	
	Alkalinity/Hardness	
	TCLP	
	☐ VOA	
	☐ ABN	
	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	

Time: 16:22

Month/Day/Year: 3/26/96

Station #: GW17

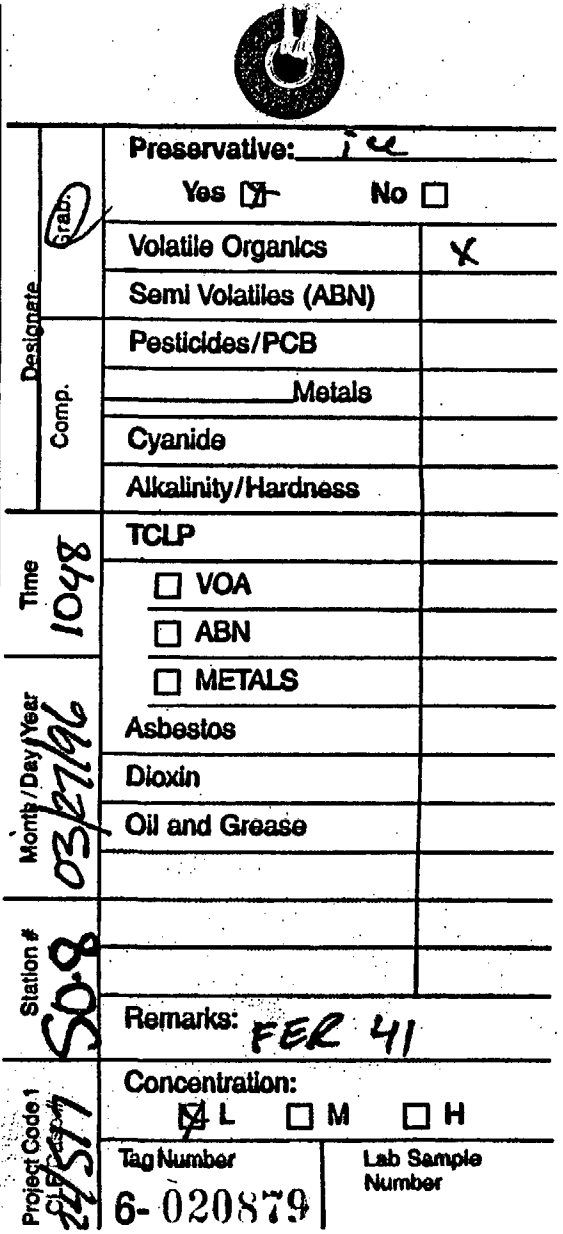
Project Code 1 CLP Case #: 24517

Remarks: FER58

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020647

Lab Sample Number:



Preservative: ice

Yes ☒ No ☐

Designate		
Grab.	Volatile Organics	X
	Semi Volatiles (ABN)	
Comp.	Pesticides/PCB	
	Metals	
	Cyanide	
	Alkalinity/Hardness	
	TCLP	
	☐ VOA	
	☐ ABN	
	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	

Time: 1048

Month/Day/Year: 03/27/96

Station #: SO-8

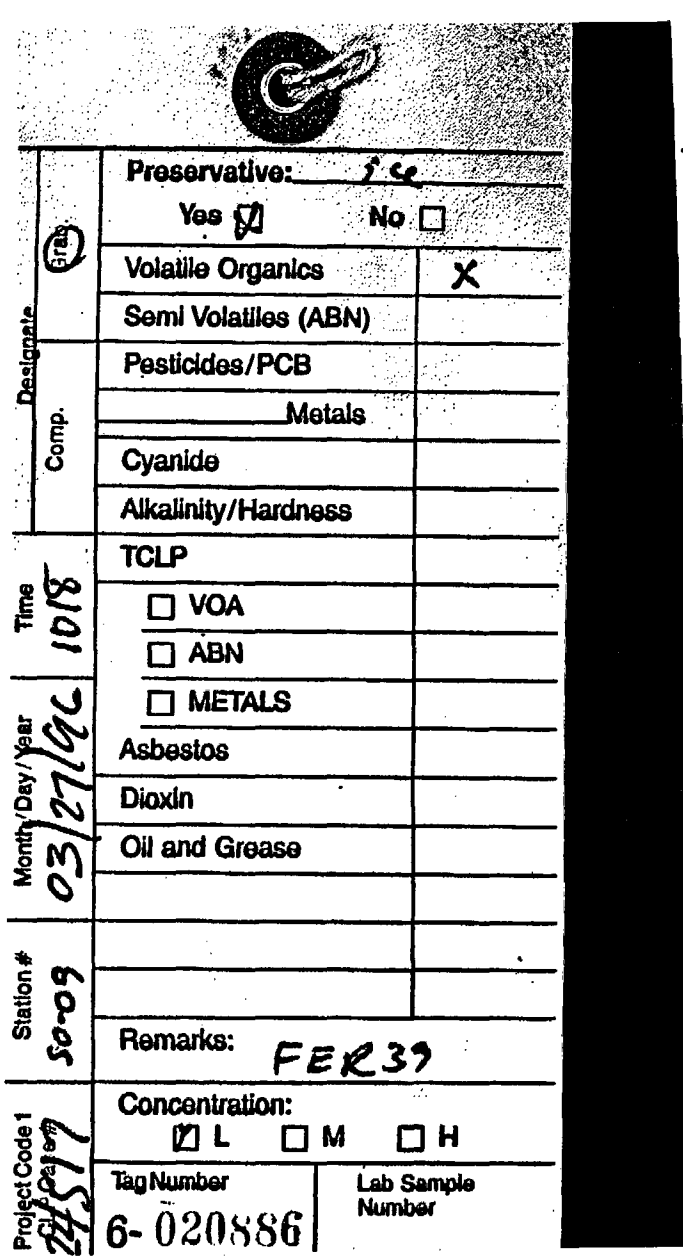
Project Code 1 CLP Case #: 24517

Remarks: FER 41

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020879

Lab Sample Number:



Designate	Grab
Comp.	
Time	1018
Month/Day/Year	03/27/96
Station #	50-09
Project Code 1 CLP Case #	24517

Preservative: ice

Yes ☒ No ☐

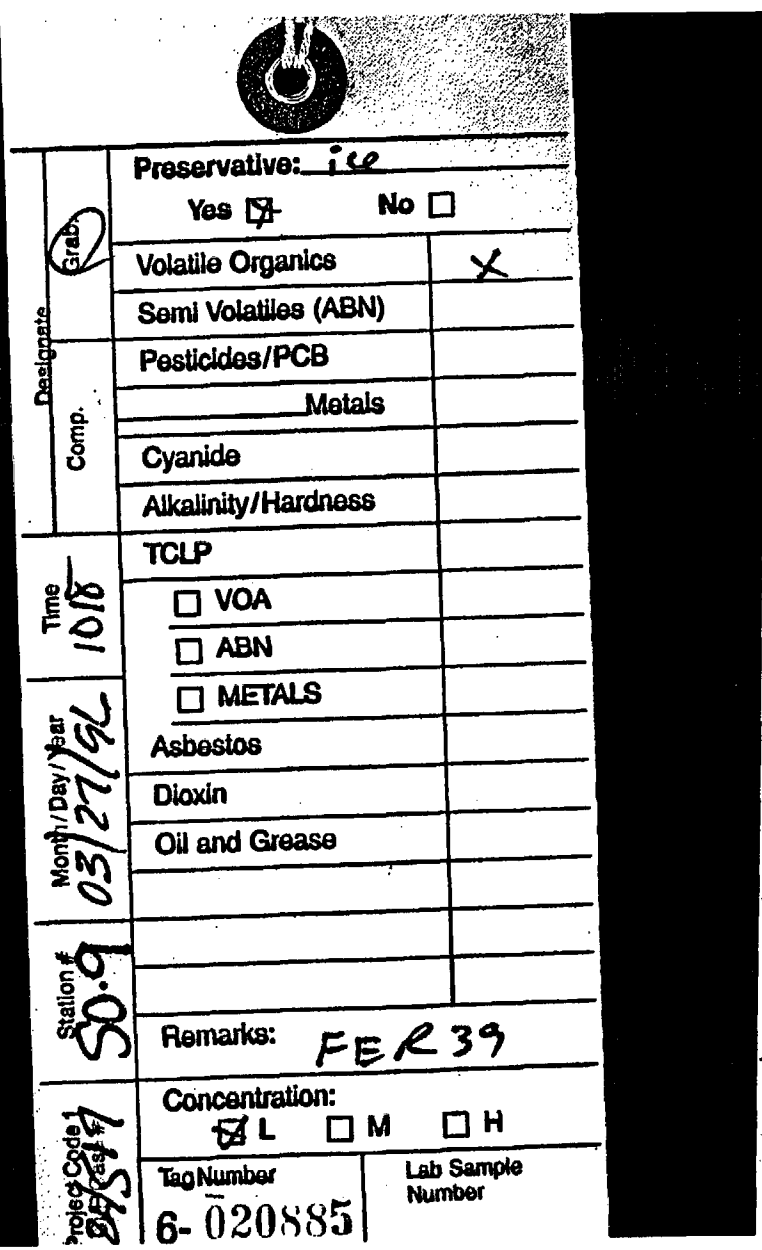
Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER39

Concentration: ☒ L ☐ M ☐ H

Tag Number 6-020886

Lab Sample Number



Designate	Grab
Comp.	
Time	1018
Month/Day/Year	03/27/96
Station #	50-9
Project Code 1 CLP Case #	24517

Preservative: ice

Yes ☒ No ☐

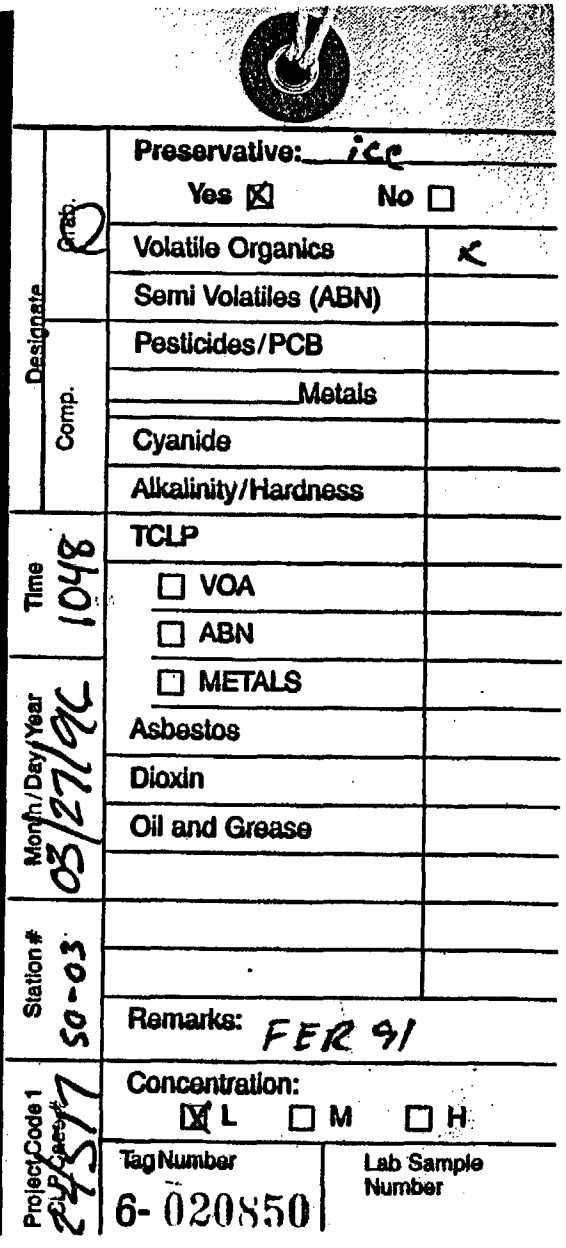
Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER39

Concentration: ☒ L ☐ M ☐ H

Tag Number 6-020885

Lab Sample Number



Designate	Grab
Comp.	
Time	1048
Month/Day/Year	03/27/96
Station #	50-03
Project Code 1 CLP Case #	24517

Preservative: ice

Yes ☒ No ☐

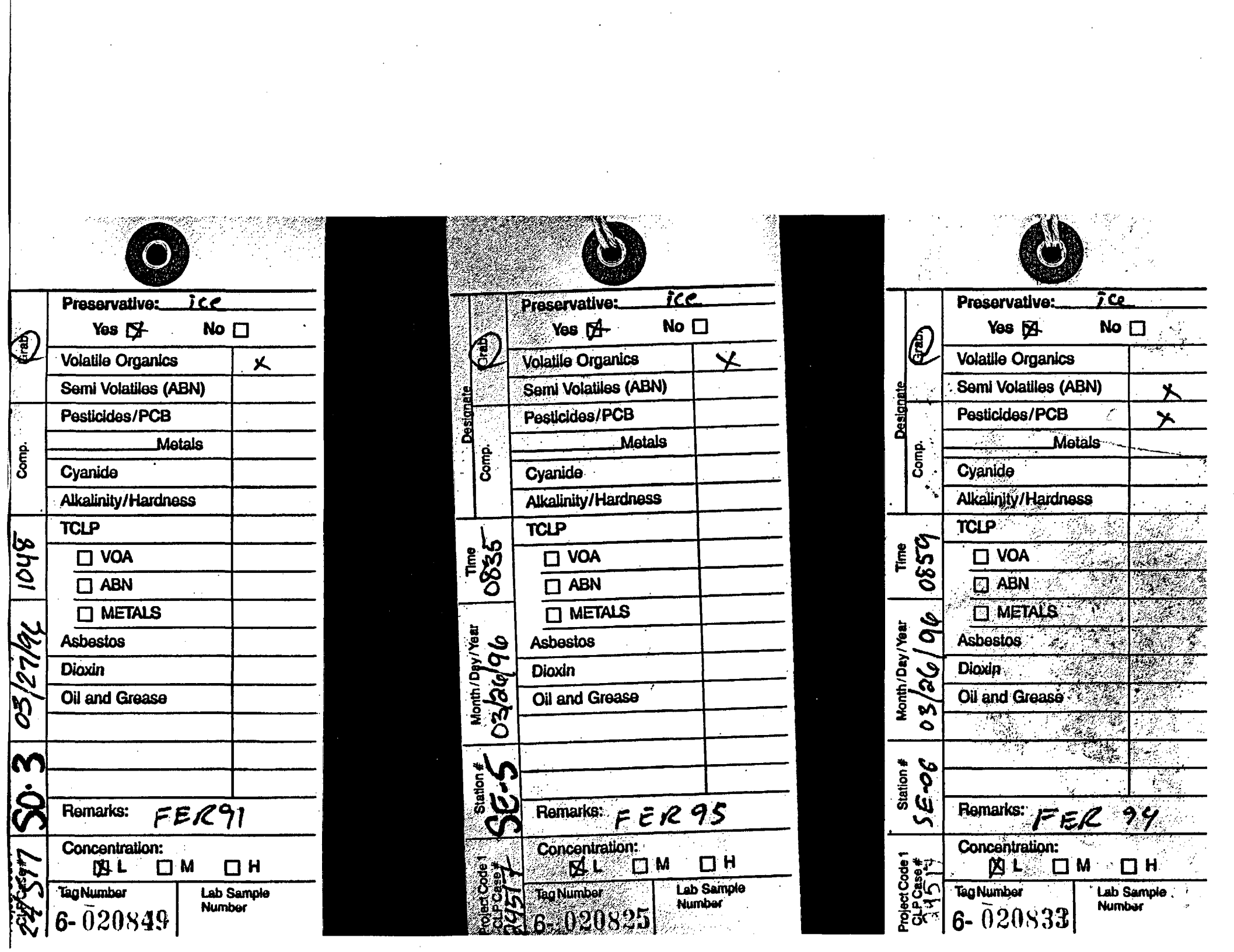
Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER 91

Concentration: ☒ L ☐ M ☐ H

Tag Number 6-020850

Lab Sample Number



Grab	Preservative: ice
	Yes ☒ No ☐
	Volatile Organics: X
	Semi Volatiles (ABN)
Comp.	Pesticides/PCB
	Metals
	Cyanide
	Alkalinity/Hardness
1048	TCLP
	☐ VOA
	☐ ABN
	☐ METALS
03/27/96	Asbestos
	Dioxin
	Oil and Grease
SD-3	
	Remarks: FER91
CLP Case # 24517	Concentration: ☒ L ☐ M ☐ H
	Tag Number 6-020849
	Lab Sample Number

Designate Grab	Preservative: ice
	Yes ☒ No ☐
	Volatile Organics: X
	Semi Volatiles (ABN)
Comp.	Pesticides/PCB
	Metals
	Cyanide
	Alkalinity/Hardness
Time 0835	TCLP
	☐ VOA
	☐ ABN
	☐ METALS
Month/Day/Year 03/26/96	Asbestos
	Dioxin
	Oil and Grease
Station # SE-5	
	Remarks: FER95
Project Code 1 CLP Case # 24517	Concentration: ☒ L ☐ M ☐ H
	Tag Number 6-020825
	Lab Sample Number

Designate Grab	Preservative: ice
	Yes ☒ No ☐
	Volatile Organics
	Semi Volatiles (ABN): X
Comp.	Pesticides/PCB: X
	Metals
	Cyanide
	Alkalinity/Hardness
Time 0859	TCLP
	☐ VOA
	☐ ABN
	☐ METALS
Month/Day/Year 03/26/96	Asbestos
	Dioxin
	Oil and Grease
Station # SE-06	
	Remarks: FER 94
Project Code 1 CLP Case # 24517	Concentration: ☒ L ☐ M ☐ H
	Tag Number 6-020833
	Lab Sample Number

Preservative: ice

Yes ☒ No ☐

Designate		
Grab	Volatile Organics	
	Semi Volatiles (ABN)	X
Comp.	Pesticides/PCB	X
	Metals	
	Cyanide	
	Alkalinity/Hardness	
	TCLP	
	☐ VOA	
	☐ ABN	
	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	

Time: 0835

Month/Day/Year: 03/26/96

Station #: SE-05

Remarks: FER95

Project Code 1 CLP Case # 24517

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6- 020827

Lab Sample Number:

Preservative: ice

Yes ☒ No ☐

Designate		
Grab	Volatile Organics	
	Semi Volatiles (ABN)	X
Comp.	Pesticides/PCB	X
	Metals	
	Cyanide	
	Alkalinity/Hardness	
	TCLP	
	☐ VOA	
	☐ ABN	
	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	

Time: 0947

Month/Day/Year: 03/26/96

Station #: SE-

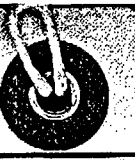
Remarks: FER 94

Project Code 1 CLP Case # 24517

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6- 020809

Lab Sample Number:



Preservative: ice

Yes ☒ No ☐

Designate		
Grab	Volatile Organics	
	Semi Volatiles (ABN)	X
Comp.	Pesticides/PCB	X
	Metals	
	Cyanide	
	Alkalinity/Hardness	
	TCLP	
	☐ VOA	
	☐ ABN	
	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	

Time: 1440

Month/Day/Year: 03/27/96

Station #: SD-07

Remarks: FER40

Project Code 1 CLP Case # 24517

Concentration: ☒ L ☐ M ☐ H

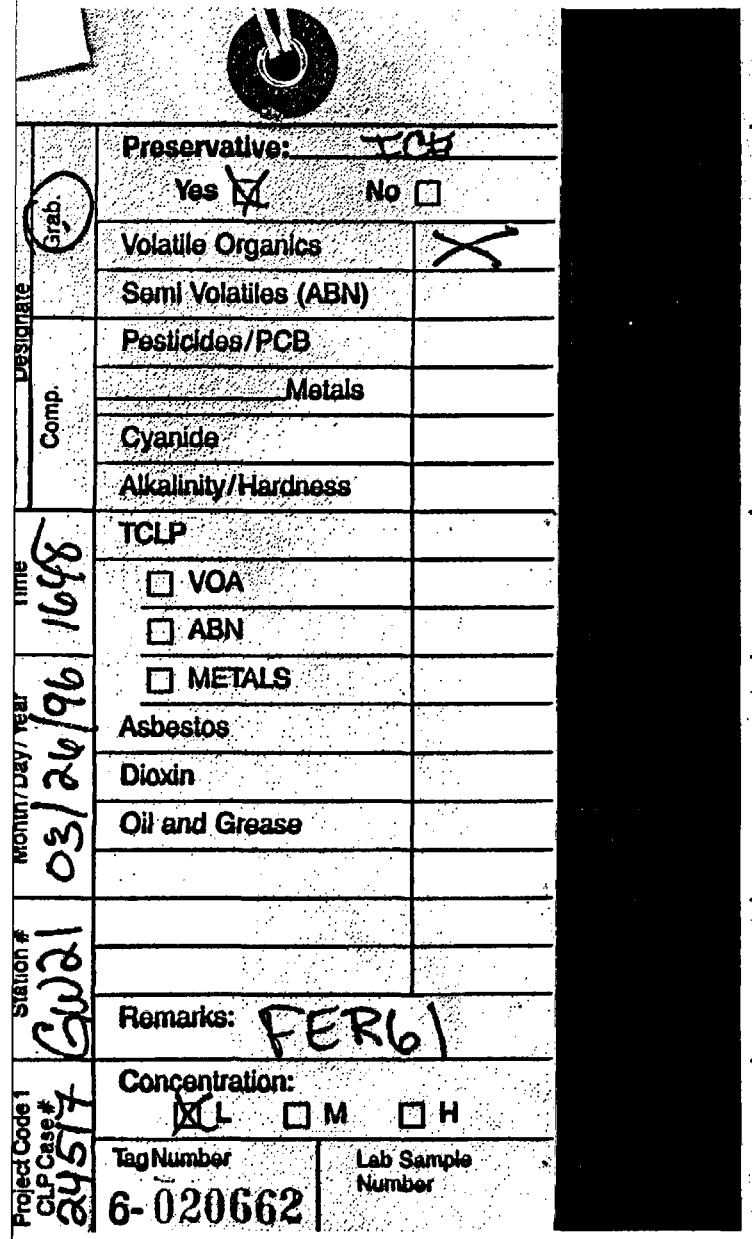
Tag Number: 6- 020875

Lab Sample Number:

Designate	Grab.	Preservative: ICE	
		Yes ☒ No ☐	
		Volatile Organics	
		Semi Volatiles (ABN)	X
	Comp.	Pesticides/PCB	X
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 0947		TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year 03/26/96		Asbestos	
		Dioxin	
		Oil and Grease	
Station # SE-2			
		Remarks: FER97	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number	Lab Sample Number

Designate	Grab.	Preservative:	
		Yes ☐ No ☐	
		Volatile Organics	X
		Semi Volatiles (ABN)	
	Comp.	Pesticides/PCB	
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 0920		TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year 03/26/96		Asbestos	
		Dioxin	
		Oil and Grease	
Station #			
		Remarks:	
Project Code 1 CLP Case # 24517		Concentration: ☐ L ☐ M ☐ H	
		Tag Number 6-020802	Lab Sample Number

Designate	Grab.	Preservative: ICE	
		Yes ☒ No ☐	
		Volatile Organics	X
		Semi Volatiles (ABN)	
	Comp.	Pesticides/PCB	
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 0920		TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year 03/26/96		Asbestos	
		Dioxin	
		Oil and Grease	
Station # SE-1			
		Remarks: FER99	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6-020801	Lab Sample Number



Designate	Grab.
Comp.	
Time	1648
Month/Day/Year	03/26/96
Station #	GW21
Project Code 1 CLP Case #	24517

Preservative: ICE

Yes ☒ No ☐

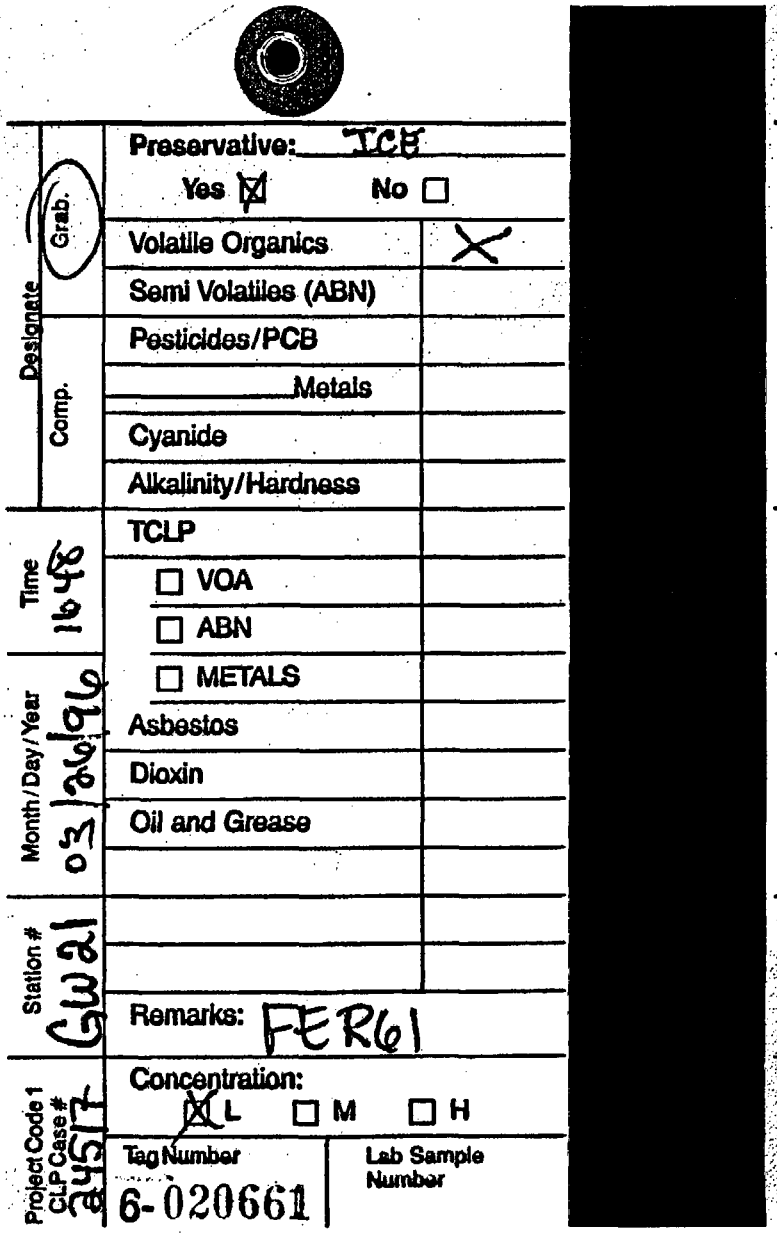
Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER61

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020662

Lab Sample Number:



[redacted]

Designate	Grab.
Comp.	
Time	1648
Month/Day/Year	03/26/96
Station #	GW21
Project Code 1 CLP Case #	24517

Preservative: ICE

Yes ☒ No ☐

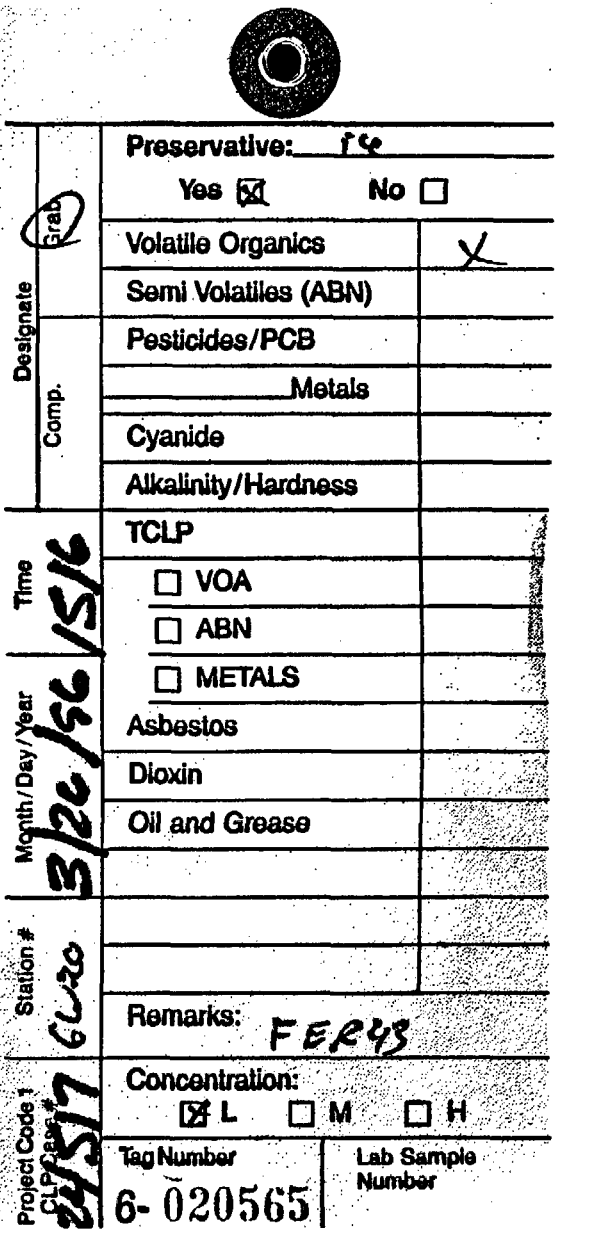
Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER61

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020661

Lab Sample Number:



[redacted]

Designate	Grab.
Comp.	
Time	1516
Month/Day/Year	3/26/96
Station #	GW20
Project Code 1 CLP Case #	24517

Preservative: ICE

Yes ☒ No ☐

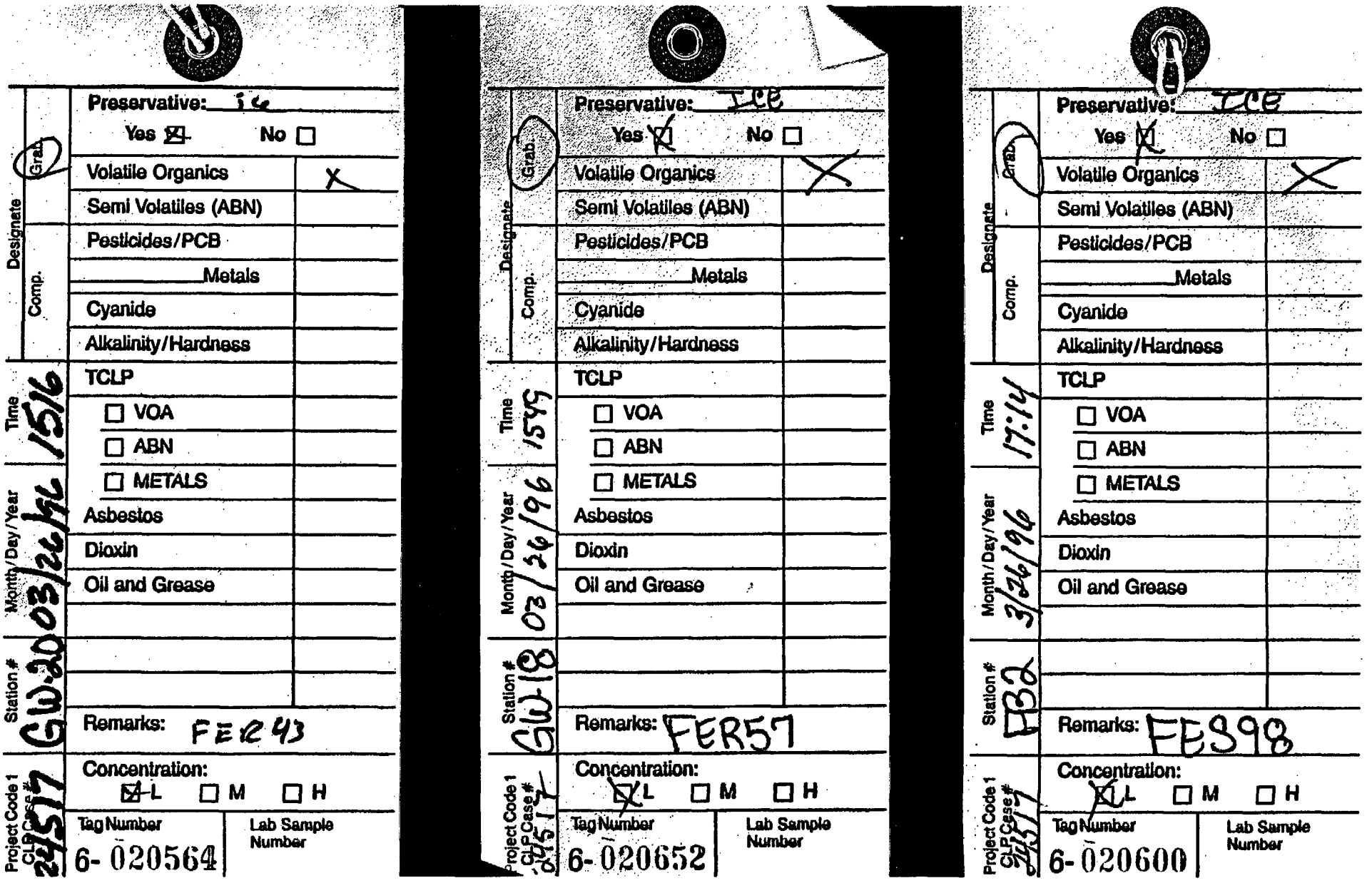
Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Remarks: FER43

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020565

Lab Sample Number:



Designate: Grab / Comp.

Preservative: ice

Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1516

Month/Day/Year: 03/26/96

Station #: GW-20

Remarks: FER43

Concentration: ☒ L ☐ M ☐ H

Project Code 1 CLP Case #: 24517

Tag Number: 6-020564

Lab Sample Number:

Designate: Grab / Comp.

Preservative: ICE

Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1549

Month/Day/Year: 03/26/96

Station #: GW-18

Remarks: FER57

Concentration: ☒ L ☐ M ☐ H

Project Code 1 CLP Case #: 24517

Tag Number: 6-020652

Lab Sample Number:

Designate: Grab / Comp.

Preservative: ICE

Yes ☒ No ☐

Volatile Organics	X
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 17:14

Month/Day/Year: 3/26/96

Station #: FB2

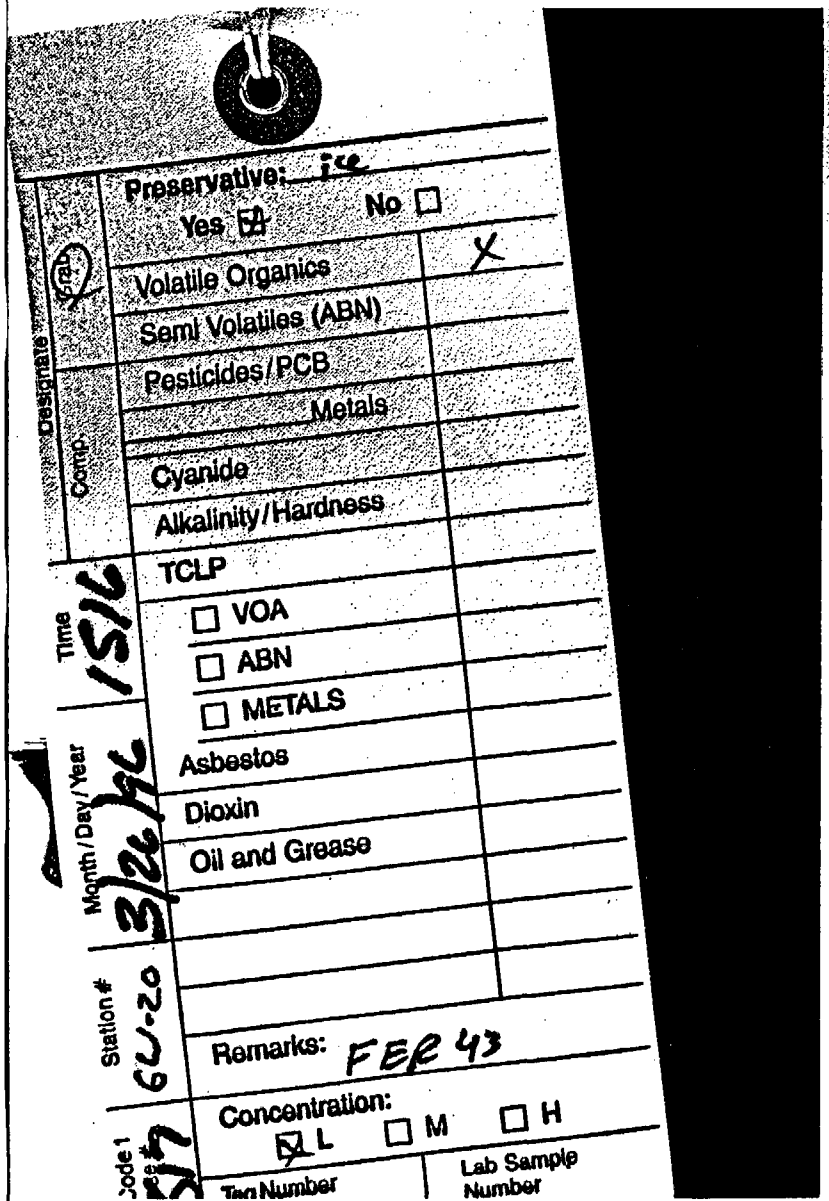
Remarks: FES98

Concentration: ☒ L ☐ M ☐ H

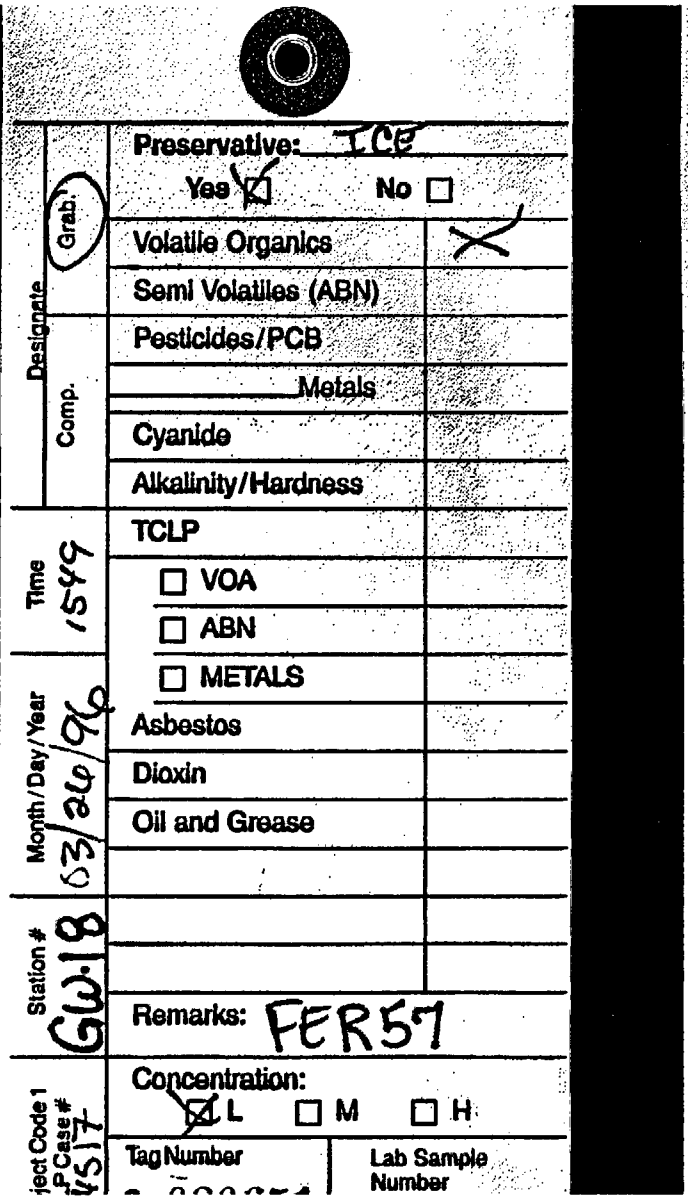
Project Code 1 CLP Case #: 24517

Tag Number: 6-020600

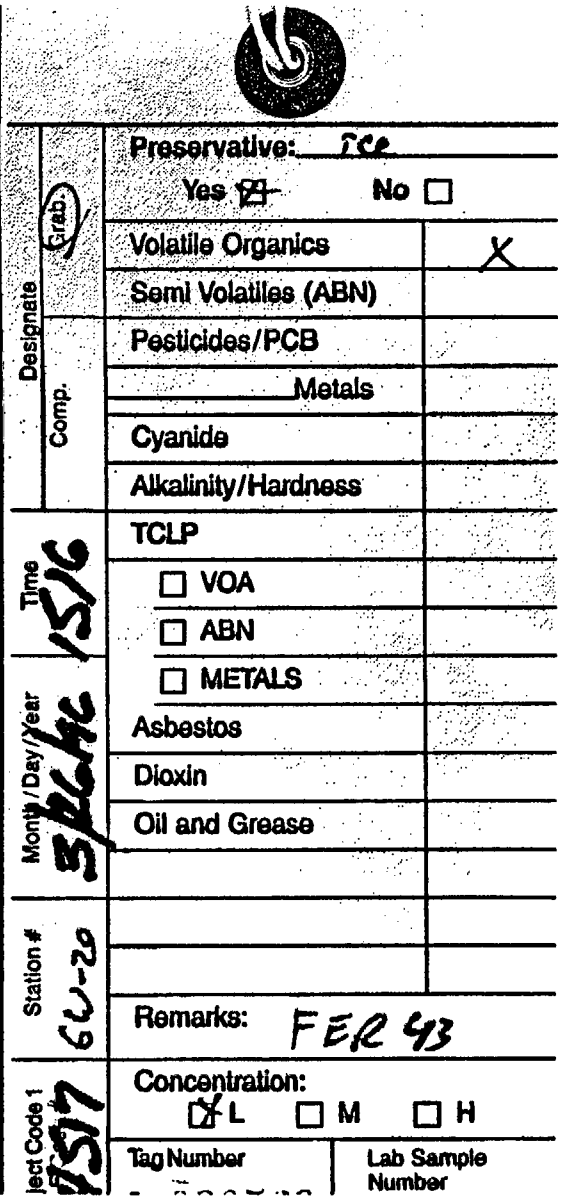
Lab Sample Number:



Preservative: ice
Yes ☒ No ☐
Designate Comp. Grab
Volatile Organics X
Semi Volatiles (ABN)
Pesticides/PCB
Metals
Cyanide
Alkalinity/Hardness
TCLP
☐ VOA
☐ ABN
☐ METALS
Asbestos
Dioxin
Oil and Grease
Time 1516
Month/Day/Year 3/26/96
Station # GW-20
Remarks: FER 43
Concentration: ☒ L ☐ M ☐ H
Tag Number
Lab Sample Number



Preservative: ICE
Yes ☒ No ☐
Designate Comp. Grab
Volatile Organics X
Semi Volatiles (ABN)
Pesticides/PCB
Metals
Cyanide
Alkalinity/Hardness
TCLP
☐ VOA
☐ ABN
☐ METALS
Asbestos
Dioxin
Oil and Grease
Time 1549
Month/Day/Year 03/26/96
Station # GW-18
Remarks: FER 43
Concentration: ☒ L ☐ M ☐ H
Tag Number
Lab Sample Number

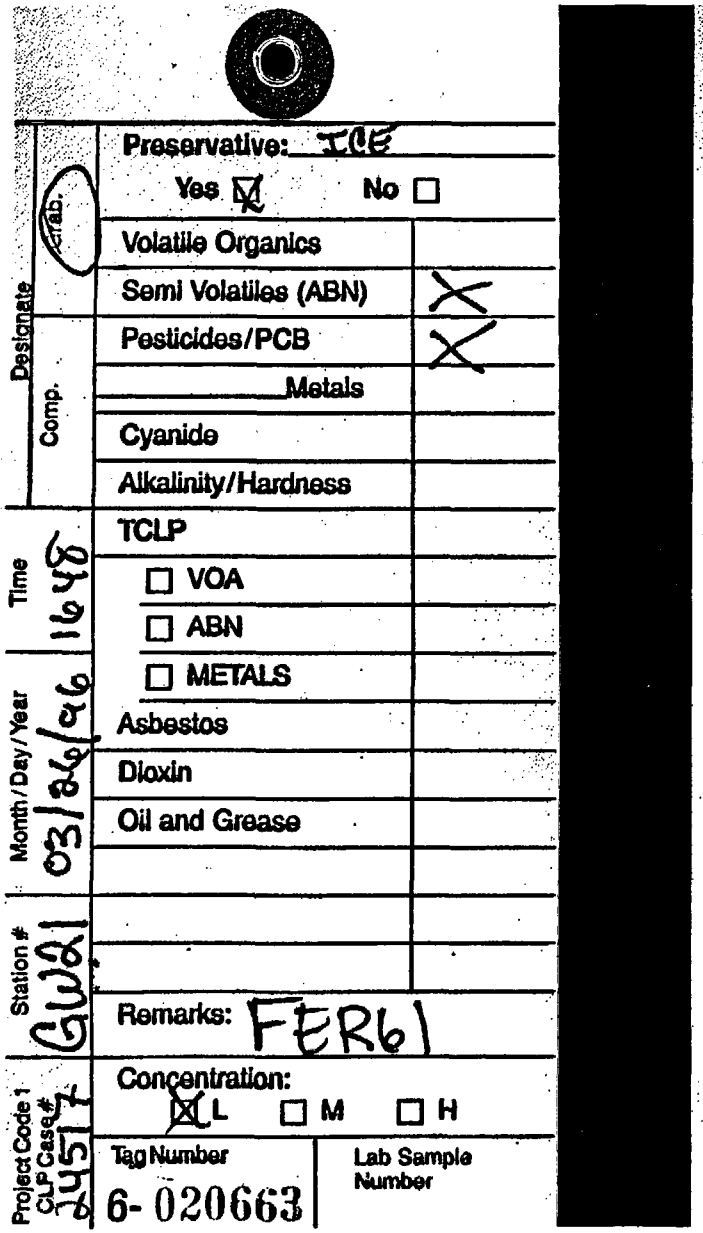


Preservative: ice
Yes ☒ No ☐
Designate Comp. Grab
Volatile Organics X
Semi Volatiles (ABN)
Pesticides/PCB
Metals
Cyanide
Alkalinity/Hardness
TCLP
☐ VOA
☐ ABN
☐ METALS
Asbestos
Dioxin
Oil and Grease
Time 1516
Month/Day/Year 3/26/96
Station # GW-20
Remarks: FER 43
Concentration: ☒ L ☐ M ☐ H
Tag Number
Lab Sample Number

Designate	Grab	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	
		Semi Volatiles (ABN)	X
	Comp.	Pesticides/PCB	X
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time	1516	TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year	3/26/96	Asbestos	
		Dioxin	
		Oil and Grease	
Station #	GW-20		
		Remarks: FER43	
Project Code 1 CLP Case #	24517	Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6-020571	Lab Sample Number

Designate	Grab	Preservative: ICE	
		Yes ☒ No ☐	
		Volatile Organics	
		Semi Volatiles (ABN)	X
	Comp.	Pesticides/PCB	X
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time	1648	TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year	03/26/96	Asbestos	
		Dioxin	
		Oil and Grease	
Station #	GW19		
		Remarks: FER62	
Project Code 1 CLP Case #	24517	Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6-020658	Lab Sample Number

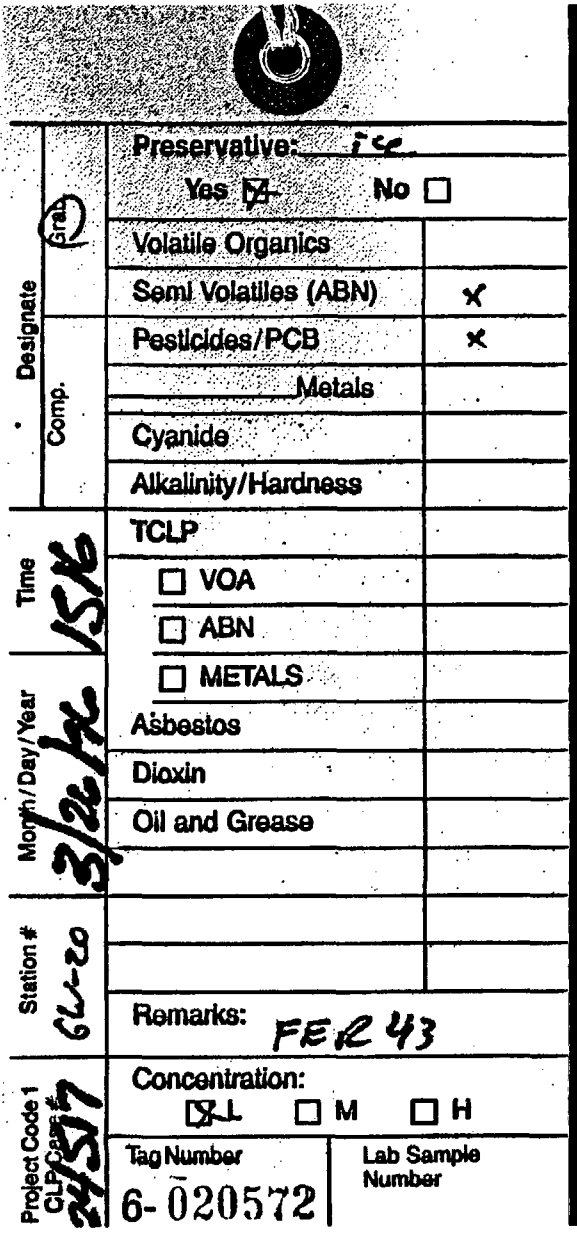
Designate	Grab	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	
		Semi Volatiles (ABN)	X
	Comp.	Pesticides/PCB	X
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time	1516	TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year	3/26/96	Asbestos	
		Dioxin	
		Oil and Grease	
Station #	GW-20		
		Remarks: FER43	
Project Code 1 CLP Case #	24517	Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6-020570	Lab Sample Number



Preservative: ICE
Yes ☒ No ☐

Designate		
Grab	Volatile Organics	
	Semi Volatiles (ABN)	X
Comp.	Pesticides/PCB	X
	Metals	
	Cyanide	
	Alkalinity/Hardness	
	TCLP	
	☐ VOA	
	☐ ABN	
	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	

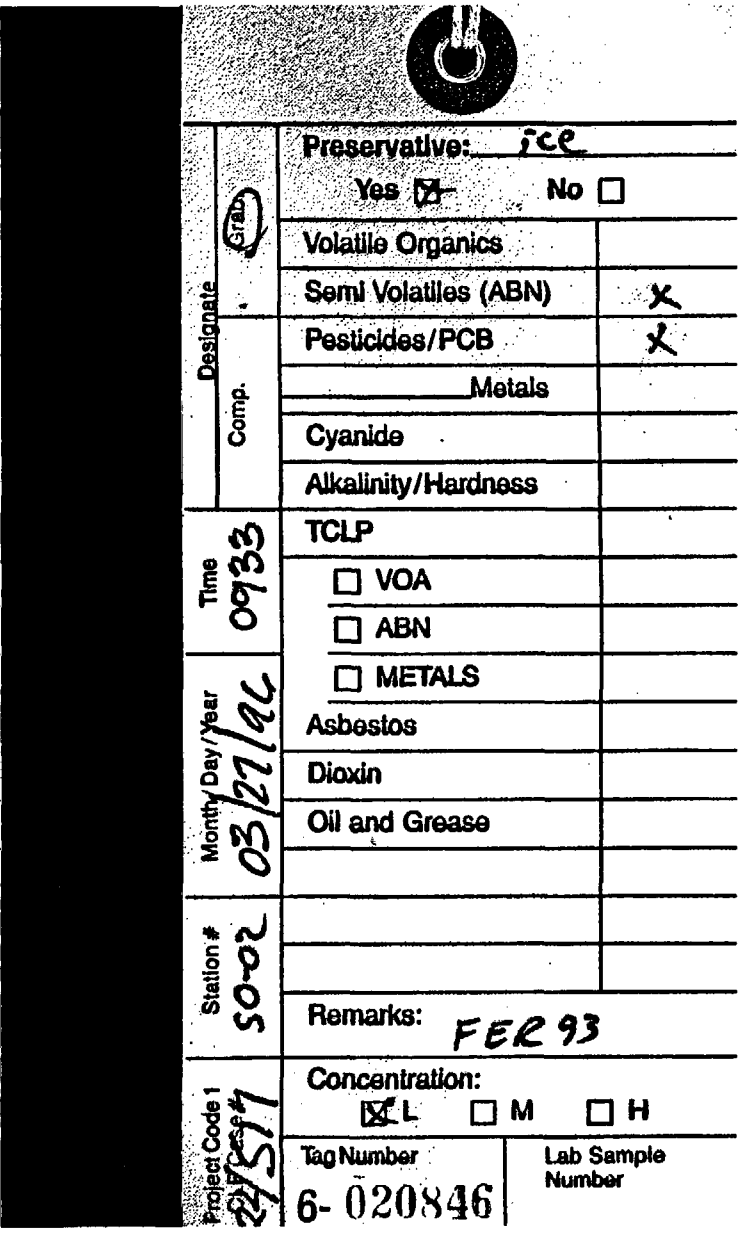
Time: 1648
Month/Day/Year: 03/24/96
Station #: GW21
Remarks: FER61
Concentration: ☒ L ☐ M ☐ H
Project Code 1 CLP Case# 24517
Tag Number: 6- 020663
Lab Sample Number:



Preservative: ice
Yes ☒ No ☐

Designate		
Grab	Volatile Organics	
	Semi Volatiles (ABN)	X
Comp.	Pesticides/PCB	X
	Metals	
	Cyanide	
	Alkalinity/Hardness	
	TCLP	
	☐ VOA	
	☐ ABN	
	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	

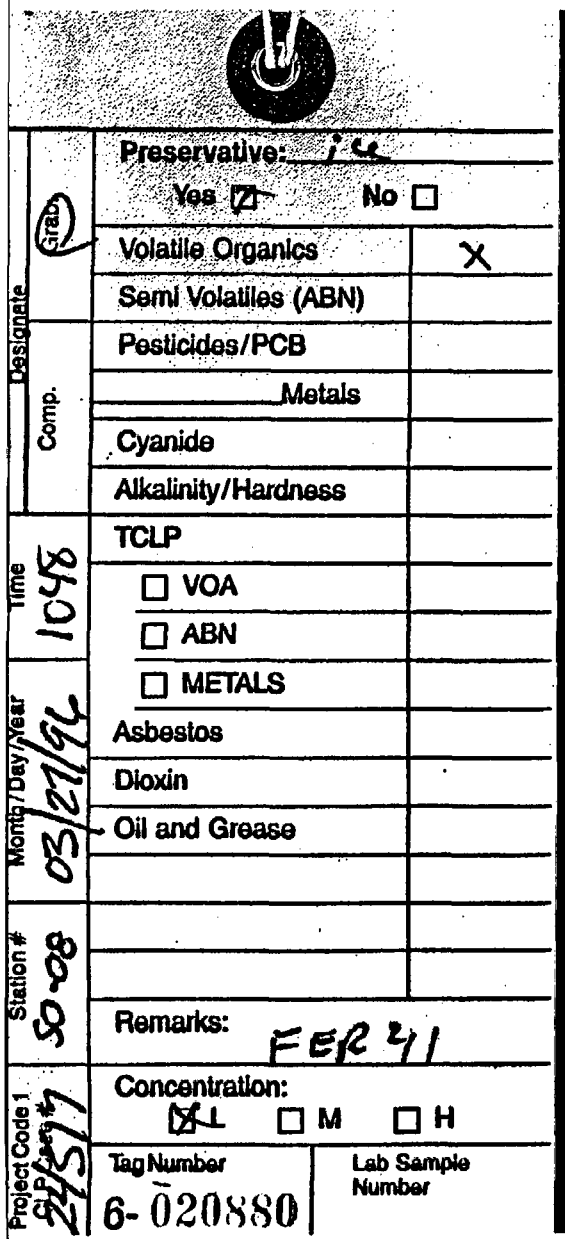
Time: 1516
Month/Day/Year: 3/26/96
Station #: GW-20
Remarks: FER 43
Concentration: ☒ L ☐ M ☐ H
Project Code 1 CLP Case# 24517
Tag Number: 6- 020572
Lab Sample Number:



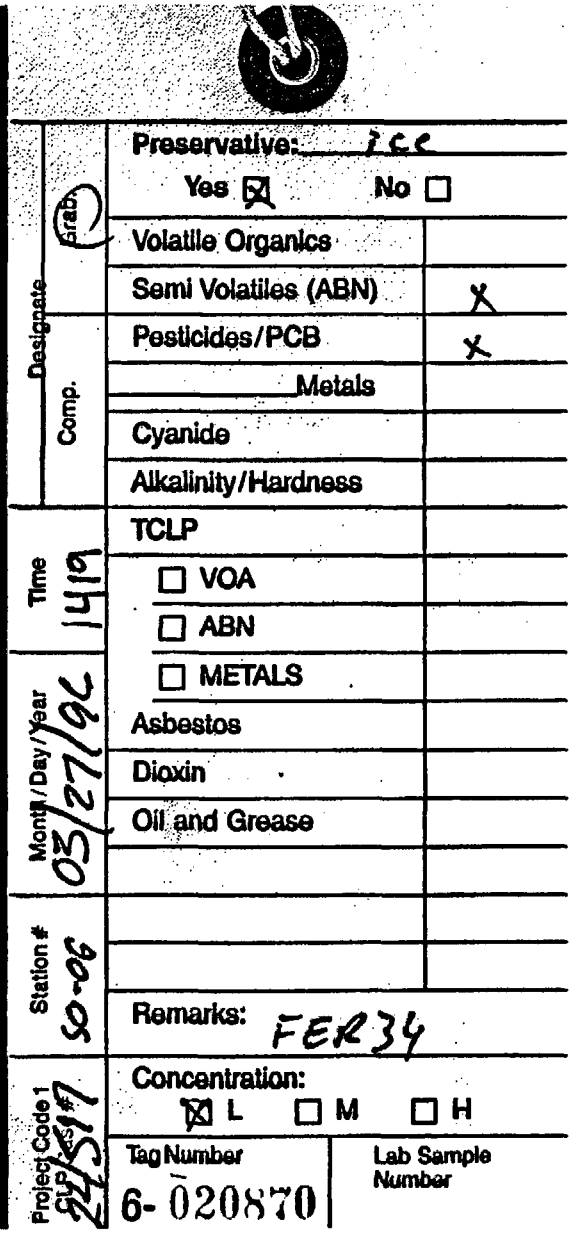
Preservative: ice
Yes ☒ No ☐

Designate		
Grab	Volatile Organics	
	Semi Volatiles (ABN)	X
Comp.	Pesticides/PCB	X
	Metals	
	Cyanide	
	Alkalinity/Hardness	
	TCLP	
	☐ VOA	
	☐ ABN	
	☐ METALS	
	Asbestos	
	Dioxin	
	Oil and Grease	

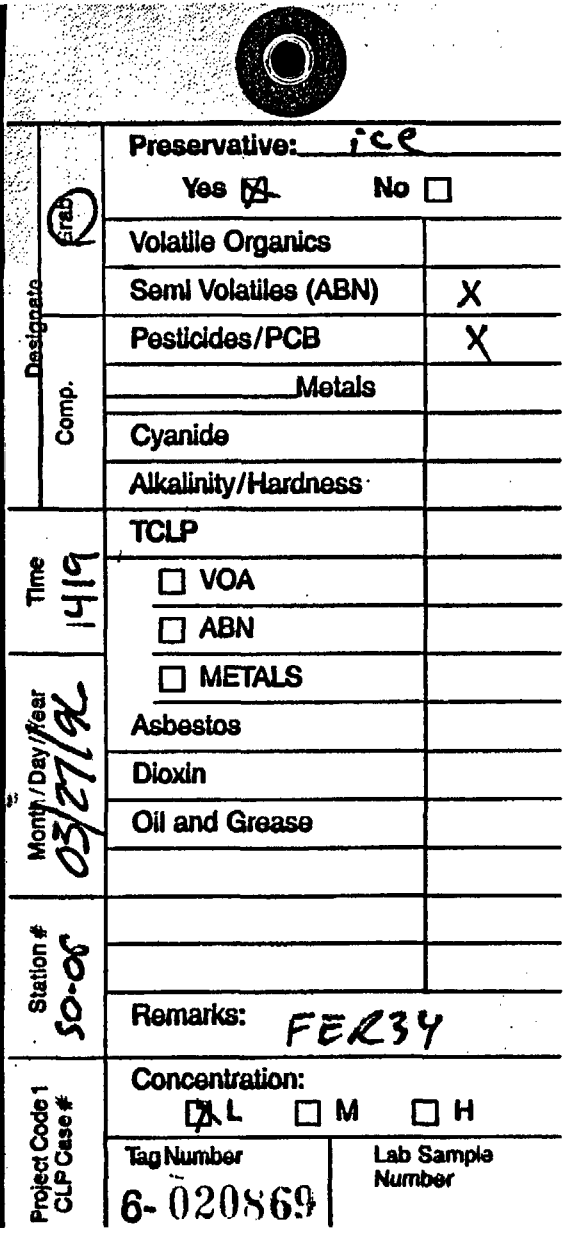
Time: 0933
Month/Day/Year: 03/27/96
Station #: SO-02
Remarks: FER 93
Concentration: ☒ L ☐ M ☐ H
Project Code 1 CLP Case# 24517
Tag Number: 6- 020846
Lab Sample Number:



Designate	Grab	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	X
		Semi Volatiles (ABN)	
	Comp.	Pesticides/PCB	
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1048		TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year 03/27/96		Asbestos	
		Dioxin	
		Oil and Grease	
Station # 50-08			
		Remarks: FER 41	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6-020880	Lab Sample Number



Designate	Grab	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	
		Semi Volatiles (ABN)	X
	Comp.	Pesticides/PCB	X
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1419		TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year 03/27/96		Asbestos	
		Dioxin	
		Oil and Grease	
Station # 50-06			
		Remarks: FER34	
Project Code 1 CLP Case # 24517		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6-020870	Lab Sample Number



Designate	Grab	Preservative: ice	
		Yes ☒ No ☐	
		Volatile Organics	
		Semi Volatiles (ABN)	X
	Comp.	Pesticides/PCB	X
		Metals	
		Cyanide	
		Alkalinity/Hardness	
Time 1419		TCLP	
		☐ VOA	
		☐ ABN	
		☐ METALS	
Month/Day/Year 03/27/96		Asbestos	
		Dioxin	
		Oil and Grease	
Station # 50-06			
		Remarks: FER34	
Project Code 1 CLP Case #		Concentration: ☒ L ☐ M ☐ H	
		Tag Number 6-020869	Lab Sample Number

Designate: Grab / Comp.

Preservative: ice

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1018

Month/Day/Year: 03/27/96

Station #: SO-09

Remarks: FER39

Project Code 1 CLP Case #: 24517

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6- 020888

Lab Sample Number:

Designate: Grab / Comp.

Preservative: ice

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1018

Month/Day/Year: 03/27/96

Station #: SO-09

Remarks: FER39

Project Code 1 CLP Case #: 24517

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6- 020887

Lab Sample Number:

Designate: Grab / Comp.

Preservative: ice

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1358

Month/Day/Year: 03/27/96

Station #: SO-05

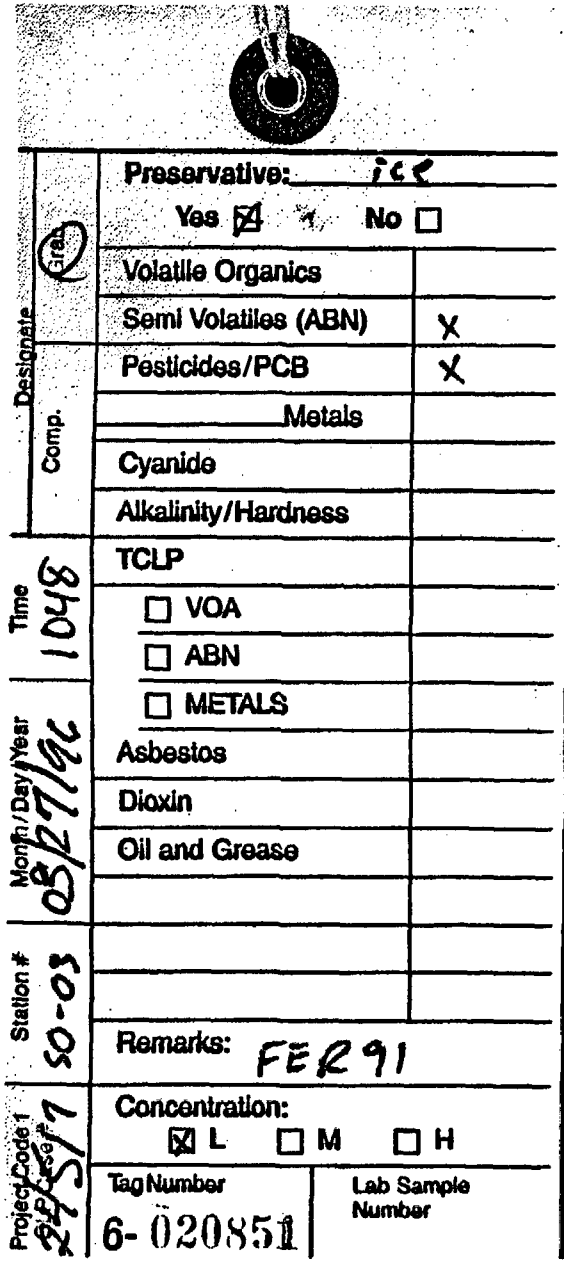
Remarks: FER35

Project Code 1 CLP Case #: 24517

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6- 020864

Lab Sample Number:

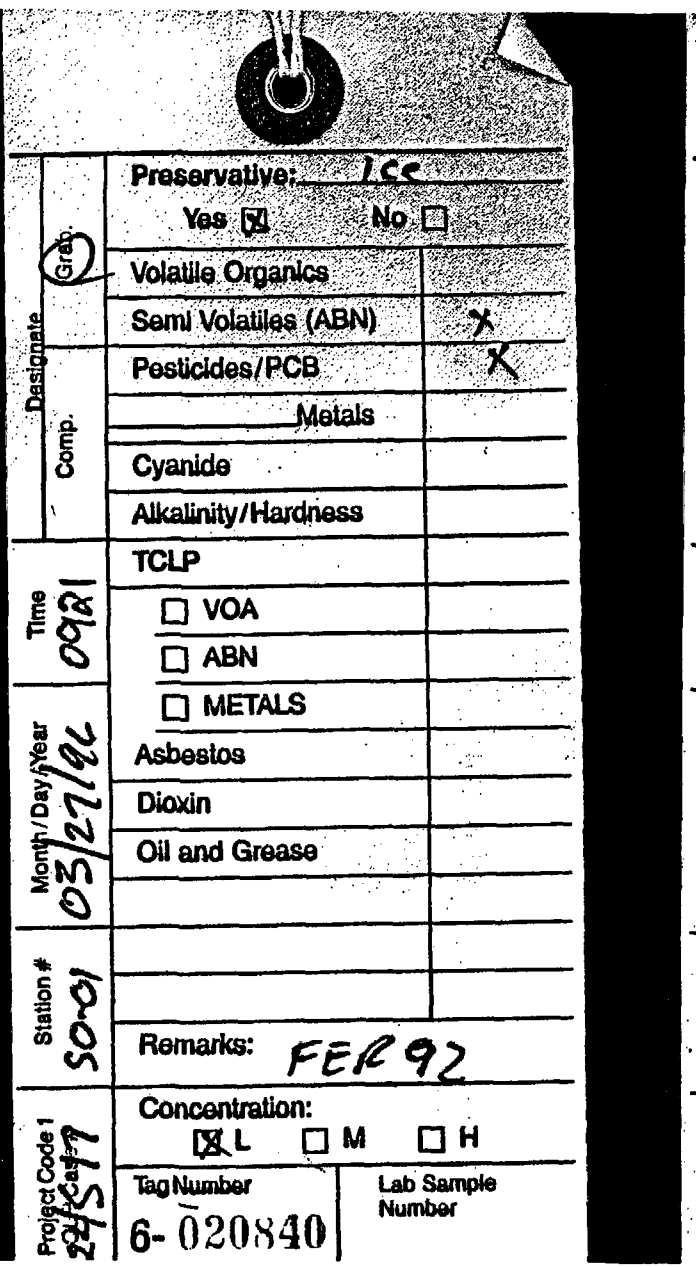


Preservative: ice
Yes ☒ No ☐

Designate Comp. / Grab

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1048
Month/Day/Year: 08/27/92
Station #: SO-03
Project Code / CLP Case #: 24517
Remarks: FER91
Concentration: ☒ L ☐ M ☐ H
Tag Number: 6- 020851
Lab Sample Number:

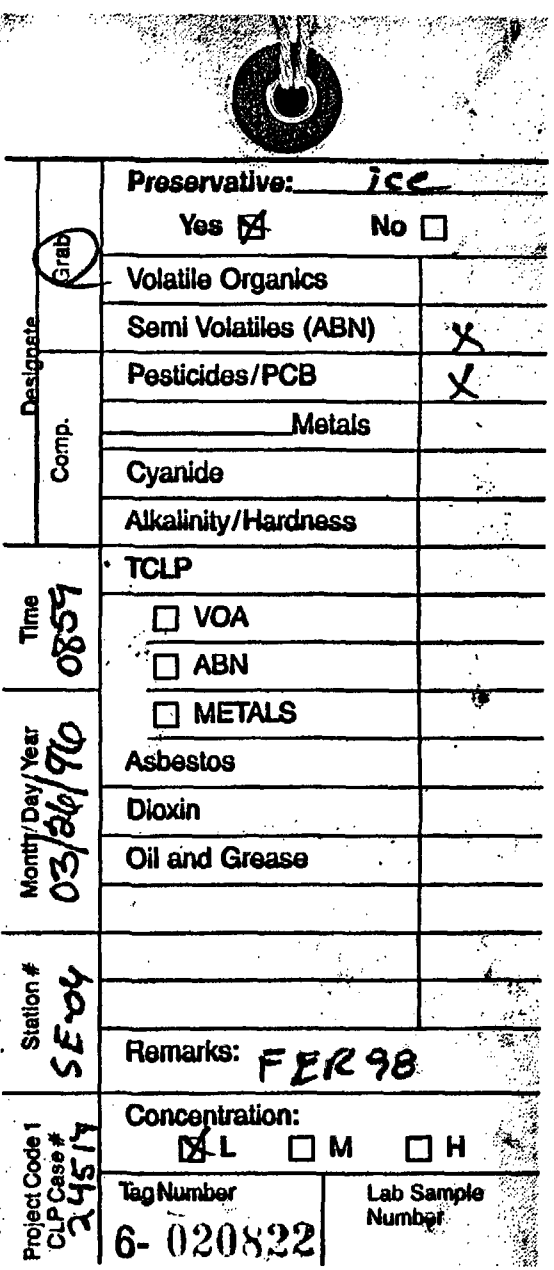


Preservative: ice
Yes ☒ No ☐

Designate Comp. / Grab

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 0921
Month/Day/Year: 03/27/92
Station #: SO-01
Project Code / CLP Case #: 24517
Remarks: FER92
Concentration: ☒ L ☐ M ☐ H
Tag Number: 6- 020840
Lab Sample Number:



Preservative: ice
Yes ☒ No ☐

Designate Comp. / Grab

Volatile Organics	
Semi Volatiles (ABN)	X
Pesticides/PCB	X
Metals	
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 0859
Month/Day/Year: 03/26/92
Station #: SE-04
Project Code / CLP Case #: 24517
Remarks: FER98
Concentration: ☒ L ☐ M ☐ H
Tag Number: 6- 020822
Lab Sample Number: