ACCREDITED LABORATORIES, INC.
Implementing Tomorrow's Technology, Today™...

Rec'd on 01/04/95.

Analytical Data Report

for

Roy F. Weston, Inc.
1090 King Georges Post Road
Edison, NJ 08837

Project: R F P 0412

Accredited Laboratories Case No.: 9548
Date Received: 11/29/94

Field ID	Laboratory Sample #
BB-FB-01 - Field Blank	9417643
BB-SS-01	9417644
BB-SS-02	9417645
BB-SS-03	9417646
BB-SS-04 - 8 soils	9417647
BB-SS-05	9417648
BB-SS-06	9417649
BB-SS-07	9417650
BB-SS-08	9417651
BB-DS-01	9417652
BB-DS-02	9417653
BB-DS-03	9417654
BB-DS-04 - 7 sludges	9417655
BB-DS-05	9417656
BB-DS-06	9417657
BB-DS-07	9417658
BB-DL-01	9417659
BB-DL-02	9417660
BB-DL-03	9417661

Results [illegible]

CORPORATE OFFICES: Foot of Pershing Avenue | 800-254-LABS P.O. Box 369 | 908-541-2025 Carteret, New Jersey | FAX 908-541-1383 07008-0369

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Analytical Data Report

for

Roy F. Weston, Inc.
1090 King Georges Post Road
Edison, NJ 08837

Project: R F P 0412

Accredited Laboratories Case No.: 9548
Date Received: 11/29/94

Field ID		Laboratory Sample #
BB-DL-04	8 samples	9417662
BB-DL-05		9417663
BB-DL-06		9417664
BB-DL-08		9417665
BB-DL-07		9417666
BB-RB-01	- Rinse Blk	9417667

Accredited Laboratories, Inc. New Jersey Certification Number 12007. This data has been reviewed and accepted by:

Yun-shen Lee, Ph.D. 1/3/95
Technical Director

TABLE OF CONTENTS

	page
Chain of Custody	1
Methodology Summary	10
Laboratory Chronicles	12
Conformance/Non-conformance Summary	18
Laboratory Certificate	19
Analytical Results	
Volatile Organics	20
Base Neutral/Acid Extractable Organics	45
Pesticides/PCBs	70
Quality Control	
Volatile Organics:	120
GCMS Tune	
Standard Calibrations	
MS/MSD Summary	
Method Blank	
Base Neutral/Acid Extractable Organics:	171
GCMS Tune	
Standard Calibrations	
MS/MSD Summary	
Method Blank	
Pesticides/PCBs:	223
Standard Calibrations	
Retention Time Window	
Surrogate Recovery Summary	
Analytical Sequence	
DDT/Endrin Breakdown	
MS/MSD Summary	
Method Blank	
Raw Data	
Volatile Organics	272
Base Neutral/Acid Extractable Organics	348
Pesticides/PCBs	418

CHAIN OF CUSTODY RECORD

REGION II EPA ROY F. WESTON, INC.
TECHINICAL ASSISTANCE TEAM
1090 KING GEORGES POST RD.
SUITE 201 - EDISON, NJ 08837 PHONE NO.: (908) 225-6116

TAT PM: Mark Anthony Denno

PCS # 0412
P.O. # 16-3693

Sample Number	Number of Containers	Description of Samples
BB-FB-Ø1	6	9417643 2 x 40ml vials for TCL-VOA fraction; 4 x 1L amber bottles for TCL-BNA/PCB/Pesticide fractions; all aqueous; low concentration.
BB-SS-Ø1	9	9417644 6 x 120ml vials for TCL-VOA fraction; 3 x 8oz. glass jars for TCL-BNA/PCB/Pesticide fractions; all soil; low/med. concentration; all include MS and MSD.
BB-SS-Ø2	3	9417645 2 x 120ml vials for TCL-VOA fraction; 1 x 8oz. glass jar for TCL-BNA/PCB/Pesticide fractions; all soil; low/med. concentration.
BB-SS-03	3	Same as Above 9417646
BB-SS-04	3	Same as Above 9417647
BB-SS-05	3	Same as Above 9417648
BB-SS-06	3	Same as Above 9417649
BB-SS-07	3	Same as Above 9417650
BB SS-08	3	Same as Above 9417651

Field Dup

Person Assuming Responsibility for Sample:	Time	Date
Mark Anthony Denno	1700	11/29/94

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
All	Mark A. Denno	[illegible]	10:10	11/30/94	Lab Analysis

1

COC

C9548

CHAIN OF CUSTODY RECORD

REGION II EPA ROY F. WESTON, INC.
TECHINICAL ASSISTANCE TEAM
1090 KING GEORGES POST RD.
SUITE 201 - EDISON, NJ 08837 PHONE NO.: (908) 225-6116

TAT PM: Mark Anthony Denno

PCS # 0412
P.O. # 16-3693

Field

Sample Number	Number of Containers	Description of Samples	
BB-DS-01	3	3x8oz glass jars for Full TCL, all sludge; high concentration, all include MS and MSD	9417652
BB-DS-02	1 Dup	1x8oz glass jar for Full TCL, all solid; high concentration	9417653
BB-DS-03	1	1x8oz glass jar for Full TCL, all sludge, high concentration	9417654
BB-DS-04	1	same as above	9417655
BB-DS-05	1	same as above	9417656
BB-DS-06	1	same as above	9417657
BB-DS-07	1	1x8oz glass jar for Full TCL, all solid, high concentration	9417658
BB-DL-01	1	1x8oz glass jar for Full TCL, liquid, high concentration	9417659
BB-DL-02	1	same as above	9417660
BB-DL-03	3 Field Dups	3x8oz glass jars for Full TCL, liquid, high concentration, includes MS and MSD	9417661

Person Assuming Responsibility for Sample:	Time	Date
Mark Anthony Denno	1700	11/29/94

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
All	Mark A. Denno	[illegible]	18:12	11/29	Lab Analysis

2

C-9548

CHAIN OF CUSTODY RECORD

REGION II EPA ROY F. WESTON, INC.
TECHINICAL ASSISTANCE TEAM
1090 KING GEORGES POST RD.
SUITE 201 - EDISON, NJ 08837 PHONE NO.: (908) 225-6116

TAT PM: Mark Anthony Denno

PCS # 0412
P.O. # 16-3693

Sample Number	Number of Containers	Description of Samples
BB-DL-04	1	1x8oz glass jar for Full TCL, liquid matrix, high concentration 9417662
BB-DL-05	1	same as above 9417663
BB-DL-06	1	same as above 9417664
BB-DL-08	1	same as above 9417665
BB-DL-07	1	same as above 9417666
BB-RB-01	6	2x40mL vials for TCL-VOA; 4x1L amber bottles for TCL-BNA, Pest, PCB fractions, all aqueous, low concentration. 9417667

Person Assuming Responsibility for Sample: Mark Anthony Denno — Time: 1700 — Date: 11/29/94

Sample Number	Relinquished By:	Received By:	Time	Date	Reason for Change of Custody
All	Mark A. Denno	[illegible]	1812	11/29	Lab Analysis

3

C9548

Accredited Laboratories, Inc.

INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Accredited Laboratories, Inc. Location: Carteret, N.J.

Name: B. Oman Title: Sample Rep

Field Sample Seal No. ____ Date Broken: __/__/__ Military Time Seal Broken ____

Case No. 9548 ✓ Check if No Seal on Sample Shuttle.

Field #	Laboratory #	Test Name	Date Sampled	Date Received
BB-FB-01	9417643	VO	11/29/94	11/29/94
BB-SS-01	9417644	VO	11/29/94	11/29/94
BB-SS-02	9417645	VO	11/29/94	11/29/94
BB-SS-03	9417646	VO	11/29/94	11/29/94
BB-SS-04	9417647	VO	11/29/94	11/29/94
BB-SS-05	9417648	VO	11/29/94	11/29/94
BB-SS-06	9417649	VO	11/29/94	11/29/94
BB-SS-07	9417650	VO	11/29/94	11/29/94
BB-SS-08	9417651	VO	11/29/94	11/29/94
BB-DS-01	9417652	VO	11/29/94	11/29/94
BB-DS-02	9417653	VO	11/29/94	11/29/94
BB-DS-03	9417654	VO	11/29/94	11/29/94
BB-DS-04	9417655	VO	11/29/94	11/29/94
BB-DS-05	9417656	VO	11/29/94	11/29/94
BB-DS-06	9417657	VO	11/29/94	11/29/94
BB-DS-07	9417658	VO	11/29/94	11/29/94
BB-DL-01	9417659	VO	11/29/94	11/29/94
BB-DL-02	9417660	VO	11/29/94	11/29/94
BB-DL-03	9417661	VO	11/29/94	11/29/94

DATE	TIME	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
11/29/94		Printed Name B. Oman	Printed Name L. PETRICCARO	analysis
		Signature B. Oman	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	

FORM: 291COC

Accredited Laboratories, Inc.

INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Accredited Laboratories, Inc. Location: Carteret, N.J.

Name: B. Oxner Title: Sample Rec'd

Field Sample Seal No. ____ Date Broken: __/__/__ Military Time Seal Broken ____

Case No. 9548 ✓ Check if No Seal on Sample Shuttle.

Field #	Laboratory #	Test Name	Date Sampled	Date Received
BB-DL-04	9417662	VO	11/29/94	11/29/94
BB-DL-05	9417663	VO	11/29/94	11/29/94
BB-DL-06	9417664	VO	11/29/94	11/29/94
BB-DL-08	9417665	VO	11/29/94	11/29/94
BB-DL-07	9417666	VO	11/29/94	11/29/94
BB-RB-01	9417667	VO	11/29/94	11/29/94

DATE	TIME	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
11/29/94		Printed Name B. Oxner	Printed Name Petracaro	analysis
		Signature B. Oxner	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	

FORM: 291COC

5

Accredited Laboratories, Inc.

INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample — Laboratory: Accredited Laboratories, Inc. Location: Carteret, N.J.

Name: B. Ortner Title: Sample Rec

Field Sample Seal No. — Date Broken: __/__/__ Military Time Seal Broken _____

Case No. 9548 — ___ Check if No Seal on Sample Shuttle.

Field #	Laboratory #	Test Name	Date Sampled	Date Received
BB-FB-01	9417643	BNA	11/29/94	11/29/94
BB-SS-01	9417644	BNA	11/29/94	11/29/94
BB-SS-02	9417645	BNA	11/29/94	11/29/94
BB-SS-03	9417646	BNA	11/29/94	11/29/94
BB-SS-04	9417647	BNA	11/29/94	11/29/94
BB-SS-05	9417648	BNA	11/29/94	11/29/94
BB-SS-06	9417649	BNA	11/29/94	11/29/94
BB-SS-07	9417650	BNA	11/29/94	11/29/94
BB-SS-08	9417651	BNA	11/29/94	11/29/94
BB-DS-01	9417652	BNA	11/29/94	11/29/94
BB-DS-02	9417653	BNA	11/29/94	11/29/94
BB-DS-03	9417654	BNA	11/29/94	11/29/94
BB-DS-04	9417655	BNA	11/29/94	11/29/94
BB-DS-05	9417656	BNA	11/29/94	11/29/94
BB-DS-06	9417657	BNA	11/29/94	11/29/94
BB-DS-07	9417658	BNA	11/29/94	11/29/94
BB-DL-01	9417659	BNA	11/29/94	11/29/94
BB-DL-02	9417660	BNA	11/29/94	11/29/94
BB-DL-03	9417661	BNA	11/29/94	11/29/94

DATE	TIME	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
12-13	1600	Printed Name B. Ortner Signature B. Ortner	Printed Name Lina Miguel Signature	Extraction
12-13	1730	Printed Name Lina Miguel Signature	Printed Name B. Ortner Signature B. Ortner	Cold Storage
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	

FORM: 291COC

Accredited Laboratories, Inc.

INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	Laboratory: Accredited Laboratories, Inc. Location: Carteret, N.J. Name: B. Oxner Title: Sample Receptor
Field Sample Seal No. —	Date Broken: __/__/__ Military Time Seal Broken _____
Case No. 9548	✓ Check if No Seal on Sample Shuttle.

Field #	Laboratory #	Test Name	Date Sampled	Date Received
BB-DL-04	9417662	BNA	11/29/94	11/29/94
BB-DL-05	9417663	BNA	11/29/94	11/29/94
BB-DL-06	9417664	BNA	11/29/94	11/29/94
BB-DL-08	9417665	BNA	11/29/94	11/29/94
BB-DL-07	9417666	BNA	11/29/94	11/29/94
BB-RB-01	9417667	BNA	11/29/94	11/29/94

DATE	TIME	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
12-13	1600	Printed Name B. Oxner Signature B. Oxner	Printed Name Lina Miguel Signature	Extraction analysis
12-13	1730	Printed Name Lina Miguel Signature	Printed Name B. Oxner Signature B. Oxner	Data entry storage
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	

FORM: 291COC

7

Accredited Laboratories, Inc.

INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Accredited Laboratories, Inc. Location: Carteret, N.J.

Name: B. Orton Title: Sample Rec

Field Sample Seal No. ____ Date Broken: __/__/__ Military Time Seal Broken ____

Case No. 9548 ☐ Check if No Seal on Sample Shuttle.

Field #	Laboratory #	Test Name	Date Sampled	Date Received
BB-FB-01	9417643	PEST/PCB	11/29/94	11/29/94
BB-SS-01	9417644	PEST/PCB	11/29/94	11/29/94
BB-SS-02	9417645	PEST/PCB	11/29/94	11/29/94
BB-SS-03	9417646	PEST/PCB	11/29/94	11/29/94
BB-SS-04	9417647	PEST/PCB	11/29/94	11/29/94
BB-SS-05	9417648	PEST/PCB	11/29/94	11/29/94
BB-SS-06	9417649	PEST/PCB	11/29/94	11/29/94
BB-SS-07	9417650	PEST/PCB	11/29/94	11/29/94
BB-SS-08	9417651	PEST/PCB	11/29/94	11/29/94
BB-DS-01	9417652	PEST/PCB	11/29/94	11/29/94
BB-DS-02	9417653	PEST/PCB	11/29/94	11/29/94
BB-DS-03	9417654	PEST/PCB	11/29/94	11/29/94
BB-DS-04	9417655	PEST/PCB	11/29/94	11/29/94
BB-DS-05	9417656	PEST/PCB	11/29/94	11/29/94
BB-DS-06	9417657	PEST/PCB	11/29/94	11/29/94
BB-DS-07	9417658	PEST/PCB	11/29/94	11/29/94
BB-DL-01	9417659	PEST/PCB	11/29/94	11/29/94
BB-DL-02	9417660	PEST/PCB	11/29/94	11/29/94
BB-DL-03	9417661	PEST/PCB	11/29/94	11/29/94

DATE	TIME	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
12-9	1030	Printed Name B. Orton Signature B. Orton	Printed Name Lina Miguel Signature Lina Miguel	Extraction Analysis
12-9	1420	Printed Name Lina Miguel Signature Lina Miguel	Printed Name B. Orton Signature B. Orton	Cell Storage
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	

FORM: 291COC

Accredited Laboratories, Inc.

INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Accredited Laboratories, Inc. Location: Carteret, N.J.

Name: B. Oxner Title: Sample Rec

Field Sample Seal No. N/A Date Broken: __/__/__ Military Time Seal Broken _____

Case No. 9548 ✓ Check if No Seal on Sample Shuttle.

Field #	Laboratory #	Test Name	Date Sampled	Date Received
BB-DL-04	9417662	PEST/PCB	11/29/94	11/29/94
BB-DL-05	9417663	PEST/PCB	11/29/94	11/29/94
BB-DL-06	9417664	PEST/PCB	11/29/94	11/29/94
BB-DL-08	9417665	PEST/PCB	11/29/94	11/29/94
BB-DL-07	9417666	PEST/PCB	11/29/94	11/29/94
BB-RB-01	9417667	PEST/PCB	11/29/94	11/29/94

DATE	TIME	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
12-9	1030	Printed Name B. Oxner Signature B. Oxner	Printed Name Lina Miguel Signature Lina Miguel	Extraction
12-9	1400	Printed Name Lina Miguel Signature Lina Miguel	Printed Name B. Oxner Signature B. Oxner	Cold Storage
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	
		Printed Name Signature	Printed Name Signature	

FORM: 291COC

METHODOLOGY SUMMARY

Volatile Organics - EPA 8240 (soil)

An inert gas is purged through a 5 g sample at elevated temperature. Alternatively the soil is extracted with methanol. A portion of extract is spiked into a purging vessel and purged by an inert gas. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the sorbent column is heated and back-flushed with the inert gas to desorb the purgeables onto a GC column. The GC is temperature programmed to separate the purgeables which are then detected with a mass spectrometer.

Volatile Organics - EPA 8240 (aqueous)

Volatile organic compounds are purged from a 5 ml sample by bubbling an inert gas through the aqueous sample. The purgeables are trapped in a sorbent column. When purging is completed, the sorbent column is heated and back-flushed with the inert gas to desorb the purgeables onto a GC column. The GC is temperature-programmed to separate the purgeables which are then detected with a mass spectrometer.

Base-Neutral/Acid Extractables - EPA 8270 (soil)

A 30 gram portion of soil is mixed with anhydrous sodium sulfate and is extracted with 1:1 methylene chloride and acetone. The methylene chloride extract is dried and concentrated and a measured amount is injected onto a GC and the analytes are detected with a mass spectrometer.

Base-Neutral/Acid Extractables - EPA 8270 (aqueous)

A one liter aqueous sample is serially extracted with methylene chloride at a pH greater than 11 and again at a pH less than 2. The methylene chloride extract is dried and concentrated. The extracts are combined and spiked with the internal standards prior to the injection. A measured amount is injected into a GC and the anlytes are detected with a mass spectrometer.

Pesticides/PCB's - EPA 3550/8080 (soil/solid)

A 30 gram portion of solid is mixed with anhydrous sodium sulfate and is extracted with 1:1 methylene chloride and acetone using sonication technique. The extract is separated from the sample by either centrifugation or filtration. The extract is then solvent-exchanged to hexane in a K-D concentrator to a final volume of 10 ml. The extract is injected into a gas chromatograph and the compounds in the GC effluent are detected by an electron capture detector.

Pesticides/PCB's - EPA 8080 (aqueous)

A measured volume of sample, approximately 1-L, is extracted with methylene chloride using a separatory funnel. The methylene chloride extract is dried and exchanged to hexane during concentration to a volume of 10 ml or less. The extrct is separated by gas chromatography and the parameters are then measured with an electron capture detector.

HC 12/23

Date: 11/30/94 ACCREDITED LABORATORIES, INC. Time: 9:16:20

ORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Roy F. Weston, Inc.

Test Date Due: 12/06/94
Operations Case Date Due: 12/12/94

Client Project Name: R F P 0412

Date Sampled:11/29/94 Date Received:11/29/94 Report Package: Reduced

Test: VO JCL

QC#:

Test Description:Volatile Organics (VO)

By Method:

SAMPLE IDENTIFICATION			Mtx	EXTRACTION			ANALYSIS			TIC FLAG
Field#	Case#	Sample#		Date	Time	Init	Date	Time	Init	
BB-FB-01	9548	9417643	A				12/12/94	16:05	[illegible]	
BB-RB-01	9548	9417667	A				12/12/94	16:40	[illegible]	

Reviewed by: [illegible] Date: 12/20/94

Abreviations:Sample Matrix:
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge
X=Other

RPT:01report

HC 12/23

Date: 11/30/94 ACCREDITED LABORATORIES, INC. Time: 9:16:20

ORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Roy F. Weston, Inc.

Test Date Due: 12/13/94
Operations Case Date Due: 12/12/94

Client Project Name: R F P 0412

Date Sampled:11/29/94 Date Received:11/29/94 Report Package: Reduced

Test: VO TCL

QC#:

Test Description:Volatile Organics (VO)

By Method:

SAMPLE IDENTIFICATION			Mtx	EXTRACTION			ANALYSIS			TIC FLAG
Field#	Case#	Sample#		Date	Time	Init	Date	Time	Init	
BB-SS-01	9548	9417644	S				12/6/94	20:02		
BB-SS-02	9548	9417645	S				12/11/94	20:43		
BB-SS-03	9548	9417646	S				12/9/94	20:12		
BB-SS-04	9548	9417647	S					20:49		
BB-SS-05	9548	9417648	S					21:25		
BB-SS-06	9548	9417649	S				12/11/94	23:08		
BB-SS-07	9548	9417650	S				12/9/94	22:38		
BB-SS-08	9548	9417651	S				12/13/94	16:08		
BB-DS-01	9548	9417652	G				12/12/94	00:56		
BB-DS-02	9548	9417653	K					02:43		
BB-DS-03	9548	9417654	G					03:19		
BB-DS-04	9548	9417655	G				12/13/94	15:52		
BB-DS-05	9548	9417656	G				12/12/94	04:30		
BB-DS-06	9548	9417657	G				12/12/94	20:55		
BB-DS-07	9548	9417658	K					21:31		
BB-DL-01	9548	9417659	X					22:07		
BB-DL-02	9548	9417660	X				12/13/94	14:21		
BB-DL-03	9548	9417661	X					16:54		
BB-DL-04	9548	9417662	X					15:33		
BB-DL-05	9548	9417663	X				12/12/94	00:30		
BB-DL-06	9548	9417664	X				12/13/94	16:38		
BB-DL-08	9548	9417665	X					14:37		
BB-DL-07	9548	9417666	X					15:15		

X=Solvent

9417644, 9417652, 9417661 -MS/MSD

#9417663 Shake Sample + analyze

Reviewed by: PS Date: 12/28/94

Abreviations:Sample Matrix:
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge
X=Other

RPT:01report

HC 12/23

Date: 11/30/94 ACCREDITED LABORATORIES, INC. Time: 9:16:17

ORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Roy F. Weston, Inc.

Test Date Due: 12/06/94
Operations Case Date Due: 12/12/94

Client Project Name: R F P 0412

Date Sampled:11/29/94 Date Received:11/29/94 Report Package: Reduced

Test: BNA TCL

QC#:

Test Description:Base Neutral Acid Extractables (BNA)

By Method:

SAMPLE IDENTIFICATION			Mtx	EXTRACTION			ANALYSIS			TIC FLAG
Field#	Case#	Sample#		Date	Time	Init	Date	Time	Init	
BB-FB-01	9548	9417643	A	12-6-94		Sd	12/9/94	17:27	PK	
BB-SS-01	9548	9417644	S	12-13-94		DM	12/16/94	18:49		
BB-SS-02	9548	9417645	S					19:39		
BB-SS-03	9548	9417646	S					20:08		
BB-SS-04	9548	9417647	S					21:18		
BB-SS-05	9548	9417648	S					22:08		
BB-SS-06	9548	9417649	S					22:57		
BB-SS-07	9548	9417650	S					23:47		
BB-SS-08	9548	9417651	S				12/17/94	00:36		
BB-DS-01	9548	9417652	G					01:26		
BB-DS-02	9548	9417653	K					02:16		
BB-DS-03	9548	9417654	G				12/24/94	00:06		
BB-DS-04	9548	9417655	G					00:53		
BB-DS-05	9548	9417656	G					01:41		
BB-DS-06	9548	9417657	G					02:28		
BB-DS-07	9548	9417658	K					03:16		
BB-DL-01	9548	9417659	X					04:03		
BB-RB-01	9548	9417667	A	12-6-94		Sd	12/9/94	19:49		

9417644, 9417652, 9417661 — MS/MSD

X = Solvent

Reviewed by: MIV Date: 12/29/94

Abreviations:Sample Matrix:
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge
X=Other

RPT:01report

HC 12/23

Date: 11/30/94 ACCREDITED LABORATORIES, INC. Time: 9:16:18

ORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Roy F. Weston, Inc.

Test Date Due: 12/13/94
Operations Case Date Due: 12/12/94

Client Project Name: R F P 0412

Date Sampled:11/29/94 Date Received:11/29/94 Report Package: Reduced

Test: BNA TCL

QC#:

Test Description:Base Neutral Acid Extractables (BNA)

By Method:

SAMPLE IDENTIFICATION			Mtx	EXTRACTION			ANALYSIS			TIC FLAG
Field#	Case#	Sample#		Date	Time	Init	Date	Time	Init	
BB-DL-02	9548	9417660	X	12-13-94		DM	12/21/94	04:51	PS	
BB-DL-03	9548	9417661	X					05:38		
BB-DL-04	9548	9417662	X					06:25		
BB-DL-05	9548	9417663*	X					07:12		
BB-DL-06	9548	9417664	X					07:59		
BB-DL-08	9548	9417665	X					08:46		
BB-DL-07	9548	9417666	X					09:34		

X = Solvent

* 9417663 - Shake sample + analyze

Reviewed by: MIV Date: 12/29/94

Abreviations:Sample Matrix:
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge
X=Other

RPT:01report

HC 12/23

Date: 11/30/94 ACCREDITED LABORATORIES, INC. Time: 9:16:18

ORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Roy F. Weston, Inc.

Test Date Due: 12/06/94
Operations Case Date Due: 12/12/94

Client Project Name: R F P 0412

Date Sampled:11/29/94 Date Received:11/29/94 Report Package: Reduced

Test: PEST/PCB TCL

QC#:

Test Description:Pesticides/PCB's (Pest/PCB)

By Method:

SAMPLE IDENTIFICATION			Mtx	EXTRACTION			ANALYSIS			TIC FLAG
Field#	Case#	Sample#		Date	Time	Init	Date	Time	Init	
BB-FB-01	9548	9417643	A	12-06-94		DM	12/15/94	20:52		
BB-SS-01	9548	9417644	S	12-09-94			12/13/94	05:05		
BB-SS-02	9548	9417645	S					08:11		
BB-SS-03	9548	9417646	S					08:49		
BB-SS-04	9548	9417647	S					09:26		
BB-SS-05	9548	9417648	S					10:03		
BB-SS-06	9548	9417649	S					10:42		
BB-SS-07	9548	9417650	S					11:19		
BB-SS-08	9548	9417651	S					11:57		
BB-DS-01	9548	9417652	G				12/22/94	23:58		
BB-DS-02	9548	9417653	K				12/23/94	03:04		
BB-DS-03	9548	9417654	G					03:41		
BB-DS-04	9548	9417655	G					04:19		
BB-DS-05	9548	9417656	G					04:56		
BB-DS-06	9548	9417657	G					05:33		
BB-DS-07	9548	9417658	K					07:24		
BB-DL-01	9548	9417659	X					08:02		
BB-RB-01	9548	9417667	A	12-06-94		DM	12-15-94	21:29		

X=Solvent

9417644, 9417652, 9417661 MS/MSD

Reviewed by: MIV Date: 12/28/94

Abreviations:Sample Matrix:
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge
X=Other

RPT:01report

HC 12/23

Date: 11/30/94 ACCREDITED LABORATORIES, INC. Time: 9:16:19

ORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Roy F. Weston, Inc.

Test Date Due: 12/13/94
Operations Case Date Due: 12/12/94

Client Project Name: R F P 0412

Date Sampled:11/29/94 Date Received:11/29/94 Report Package: Reduced

Test: PEST/PCB TCL

QC#:

Test Description:Pesticides/PCB's (Pest/PCB)

By Method:

SAMPLE IDENTIFICATION			M	EXTRACTION			ANALYSIS			TIC FLAG
Field#	Case#	Sample#	t x	Date	Time	Init	Date	Time	Init	
BB-DL-02	9548	9417660	X	12-09-94		DM	12/23/94	08:40	B.D	
BB-DL-03	9548	9417661	X					09:18		
BB-DL-04	9548	9417662	X					12:28		
BB-DL-05	9548	9417663*	X					13:05		
BB-DL-06	9548	9417664	X					13:43		
BB-DL-08	9548	9417665	X					14:20		
BB-DL-07	9548	9417666	X					14:58		

K-Solvent

* 9417663 - Shake Sample + analyze

Reviewed by: MIV Date: 12/28/94

Abreviations:Sample Matrix:
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge
X=Other

RPT:01report

Nar.

CONFORMANCE/NON-CONFORMANCE SUMMARY

Accredited Labs received 25 samples (Project: RFP 0412; ALI Case #9548) from Roy F. Weston, Inc. on 11/29/94 for the analyses of Volatile Organics, Base Neutral Acid Extractable Organics and Pesticides/PCBs.

All analyses were performed within the required holding time.

All solid analyses were reported on a dry weight basis.

As per project specifications, a matrix spike/matrix spike duplicate analysis was performed on ALI Sample #9417644, 9417652 and 9417661.

In the Volatile Organic, Base Neutral Acid Extractable and Pesticide/PCB analyses, certain MDL levels were raised due to matrix interference.

In the Volatile Organic analysis, the following surrogate recoveries were out of criterion on ALI Sample #9417644 (Toluene-d8), #9417645 (Toluene-d8 & Bromofluorobenzene), #9417646 (Toluene-d8), #9417648 (Toluene-d8), #9417649 (Bromoflurobenzene & 1,2-Dichloroethane-d4), #9417650 (Toluene-d8 & Bromofluorobenzene) and #9417651 (Bromofluorobenzene & 1,2-Dichloroethane-d4). The samples were reanalyzed and the same surrogates were out of criterion.

In the Base Neutral Acid Extractable analysis, the quantitation for ALI Sample #9417646, #9417647, #9417648 and #9417649 was generated from the external standards due to the reason that the internal standard responses were affected by the matrix interferences.

"The laboratory has reviewed the quality assurance and quality control measurements for the sample analysis stated above."

Yun-shen Lee, Ph.D. 1/3/95
Technical Director

Let's protect our earth

STATE OF NEW JERSEY

DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

Certifies That

Accredited Laboratories, Inc.
Foot of Pershing Avenue
P.O. Box 369
Carteret, New Jersey 07008

having duly met the requirements of the

Regulations Governing Laboratory Certification
And Standards Of Performance N.J.A.C. 7:18 et. seq.

is hereby approved as a

State Certified Environmental Laboratory

To perform the analyses as indicated on the Annual Certified Parameter List which must accompany this certificate to be valid

12007
PERMANENT CERTIFICATION NUMBER

October 28, 1994
DATE

COMMISSIONER, DEPARTMENT OF
ENVIRONMENTAL PROTECTION AND ENERGY

This certification is subject to unannounced laboratory inspections as specified by N.J.A.C. 7:18-2.11(d) and agreed to by the Laboratory Manager on filing the application

TO BE CONSPICUOUSLY DISPLAYED AT THE LABORATORY WITH THE ANNUAL CERTIFIED PARAMETER LIST.

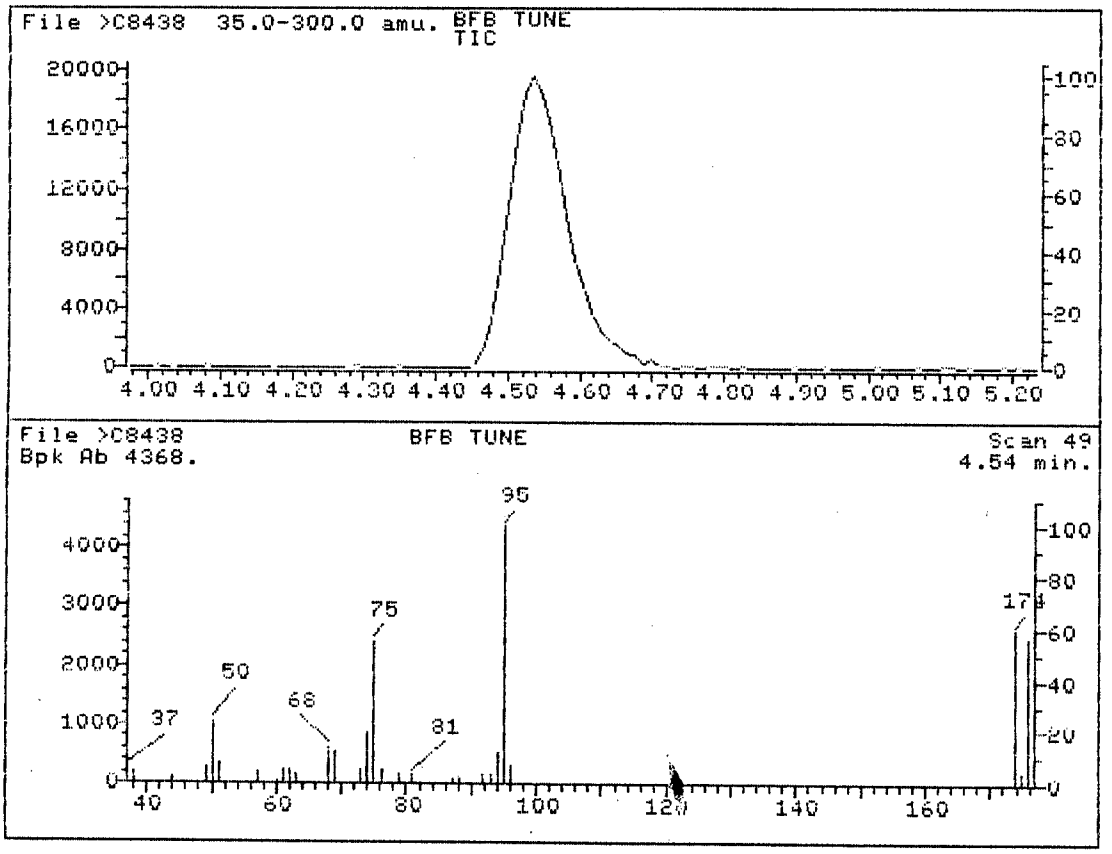
19

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	23.99	23.99	Ok
75	30-60% of mass 95	54.85	54.85	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.14	7.14	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	59.55	59.55	Ok
175	5-9% of mass 174	4.33	7.27	Ok
176	95-101% of mass 174	56.80	95.39	Ok
177	5-9% of mass 176	4.17	7.34	Ok

Injection Date: 12/06/94
Injection Time: 08:57
Data File: >C8438
Scan: 49



126

>C8438 BFB TUNE
49

File: >C8438 Scan #: 49 Retn. time: 4.54

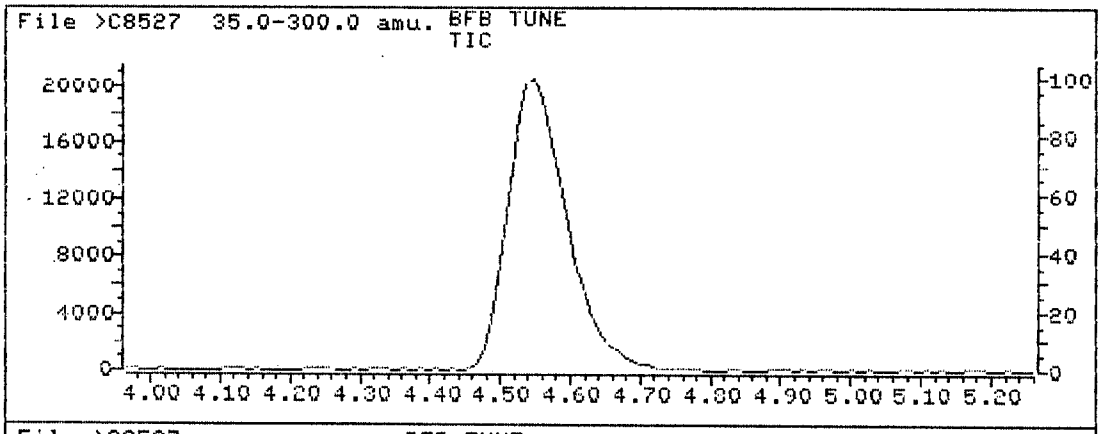
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	234.00	57.05	184.00	68.95	577.00	80.85	142.00	95.05	4368.00
38.05	200.00	59.95	64.00	72.95	223.00	86.95	98.00	95.95	312.00
43.95	112.00	61.05	216.00	74.05	858.00	88.05	106.00	173.90	2601.00
49.05	269.00	62.05	242.00	75.05	2396.00	91.85	167.00	174.80	189.00
50.05	1048.00	63.05	173.00	76.05	233.00	92.95	171.00	175.90	2481.00
51.05	338.00	68.05	597.00	78.85	169.00	94.05	519.00	176.90	182.00

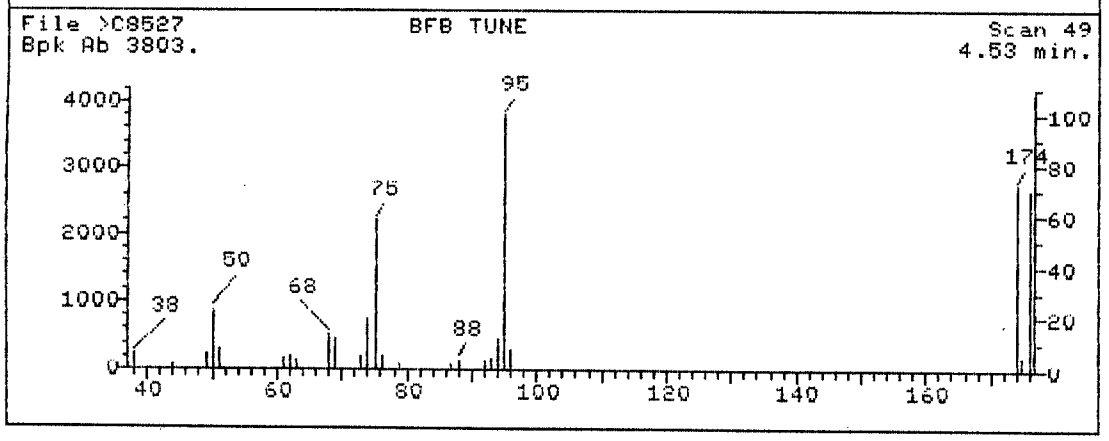
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	23.09	23.09	Ok
75	30-60% of mass 95	58.11	58.11	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	8.07	8.07	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	72.26	72.26	Ok
175	5-9% of mass 174	5.18	7.17	Ok
176	95-101% of mass 174	70.18	97.13	Ok
177	5-9% of mass 176	4.29	6.11	Ok

Injection Date: 12/09/94
Injection Time: 14:10
Data File: >C8527
Scan: 49





128

>C8527 BFB TUNE
49

File: >C8527 Scan #: 49 Retn. time: 4.53

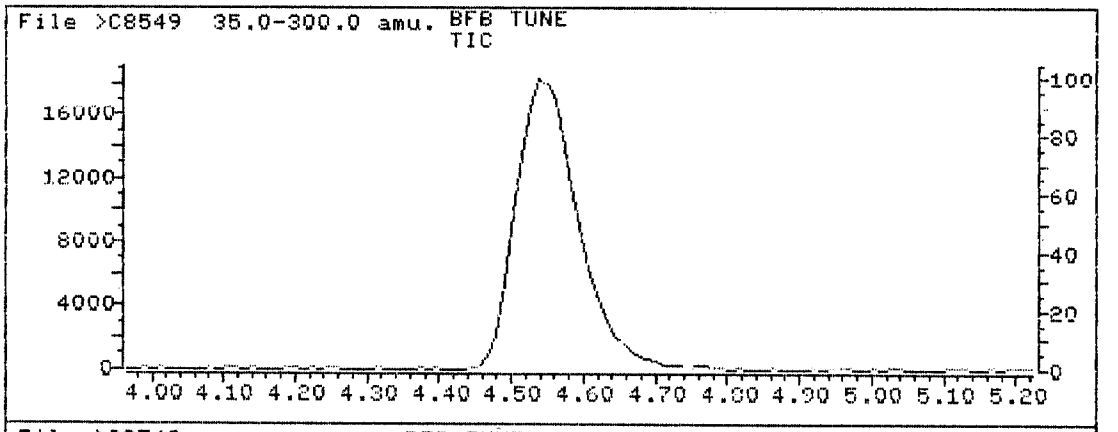
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	198.00	61.05	177.00	73.95	757.00	87.95	144.00	96.05	307.00
37.95	226.00	61.95	210.00	75.05	2210.00	91.95	136.00	173.90	2748.00
43.95	74.00	62.95	136.00	76.05	215.00	92.95	165.00	174.80	197.00
49.05	242.00	67.95	513.00	78.85	115.00	94.05	457.00	175.90	2669.00
50.05	878.00	68.95	455.00	86.85	106.00	95.05	3803.00	176.80	163.00
51.05	287.00	73.05	199.00						

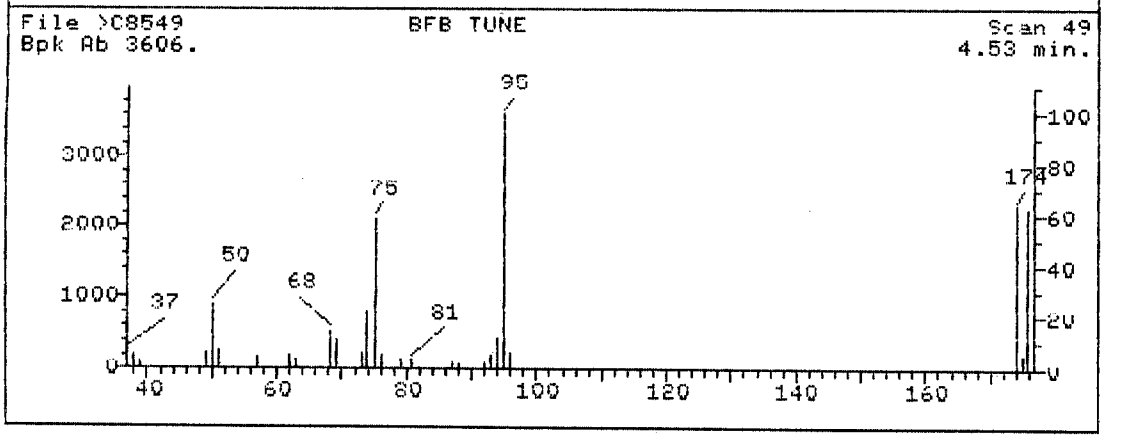
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	24.82	24.82	Ok
75	30-60% of mass 95	58.26	58.26	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	5.99	5.99	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	63.73	63.73	Ok
175	5-9% of mass 174	5.35	8.40	Ok
176	95-101% of mass 174	62.29	97.74	Ok
177	5-9% of mass 176	4.80	7.70	Ok

Injection Date: 12/11/94
Injection Time: 17:53
Data File: >C8549
Scan: 49





130

>C8549 BFB TUNE
49

File: >C8549 Scan #: 49 Retn. time: 4.53

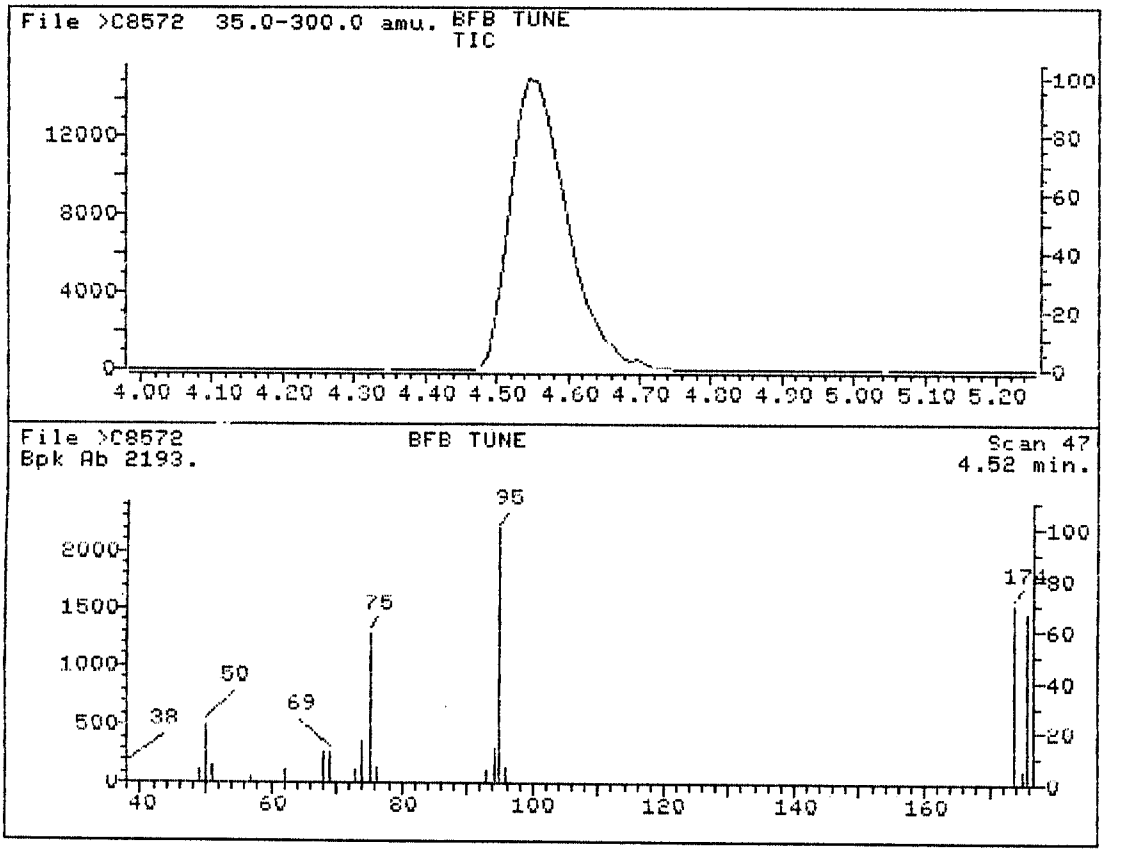
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.95	233.00	56.95	148.00	73.95	781.00	87.85	74.00	95.95	216.00
37.95	181.00	61.95	191.00	75.05	2101.00	91.95	112.00	173.90	2298.00
38.95	85.00	62.95	135.00	76.05	203.00	92.95	189.00	174.90	193.00
48.95	211.00	68.05	532.00	78.95	126.00	93.95	443.00	175.80	2246.00
49.95	895.00	69.05	407.00	80.85	125.00	94.95	3606.00	176.80	173.00
50.95	260.00	73.05	217.00	86.95	103.00				

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	22.94	22.94	Ok
75	30-60% of mass 95	58.28	58.28	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.02	6.02	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	70.13	70.13	Ok
175	5-9% of mass 174	5.02	7.15	Ok
176	95-101% of mass 174	66.85	95.32	Ok
177	5-9% of mass 176	4.83	7.23	Ok

Injection Date: 12/12/94
Injection Time: 13:12
Data File: >C8572
Scan: 47



132

>C8572 BFB TUNE
47

File: >C8572 Scan #: 47 Retn. time: 4.52

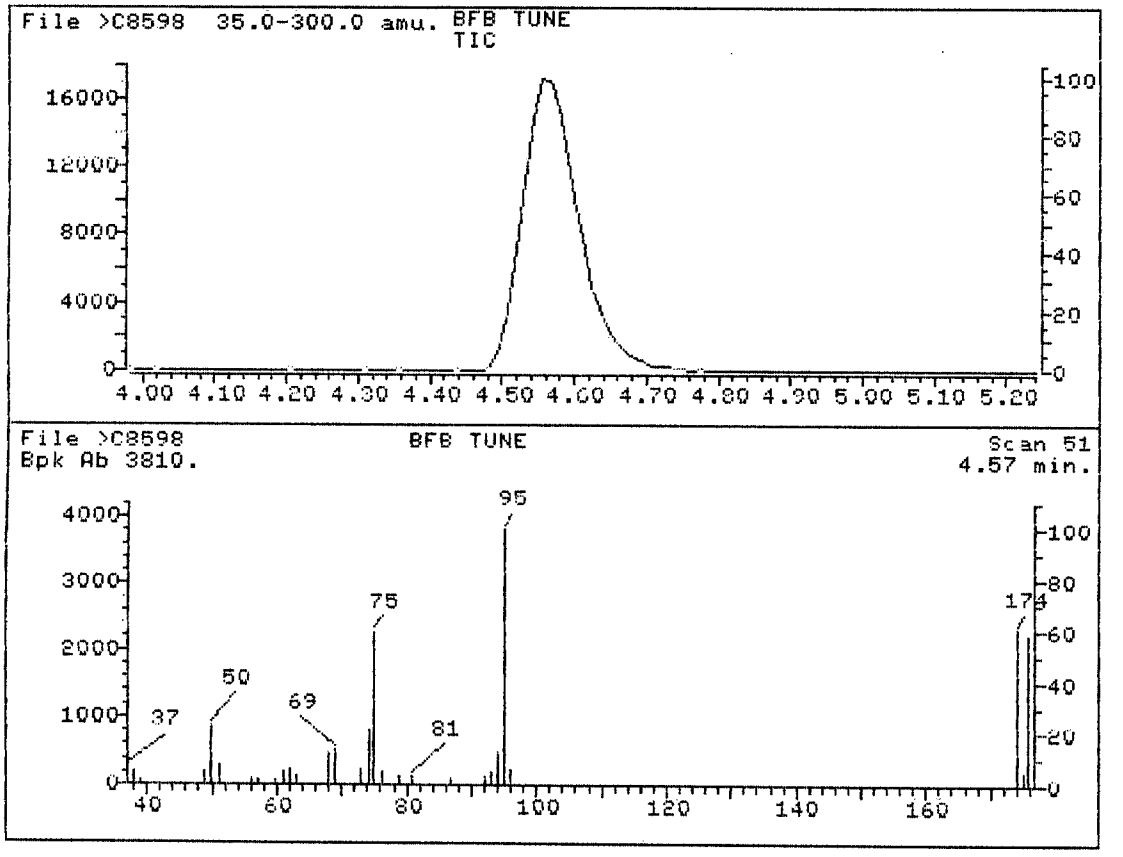
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.95	136.00	56.85	66.00	72.95	118.00	92.85	113.00	173.90	1538.00
49.05	119.00	61.95	124.00	73.95	363.00	94.05	299.00	174.90	110.00
49.95	503.00	68.05	264.00	75.05	1278.00	94.95	2193.00	175.80	1466.00
50.85	151.00	69.05	268.00	76.05	133.00	95.95	132.00	176.80	106.00

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	% Relative Abundance Appropriate Peak	Status
50	15-40% of mass 95	22.68	22.68	Ok
75	30-60% of mass 95	59.21	59.21	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	6.30	6.30	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	60.60	60.60	Ok
175	5-9% of mass 174	5.25	8.66	Ok
176	95-101% of mass 174	57.82	95.41	Ok
177	5-9% of mass 176	2.97	5.13	Ok

Injection Date: 12/13/94
Injection Time: 09:18
Data File: >C8598
Scan: 51



134

>C8598 BFB TUNE
51

File: >C8598 Scan #: 51 Retn. time: 4.57

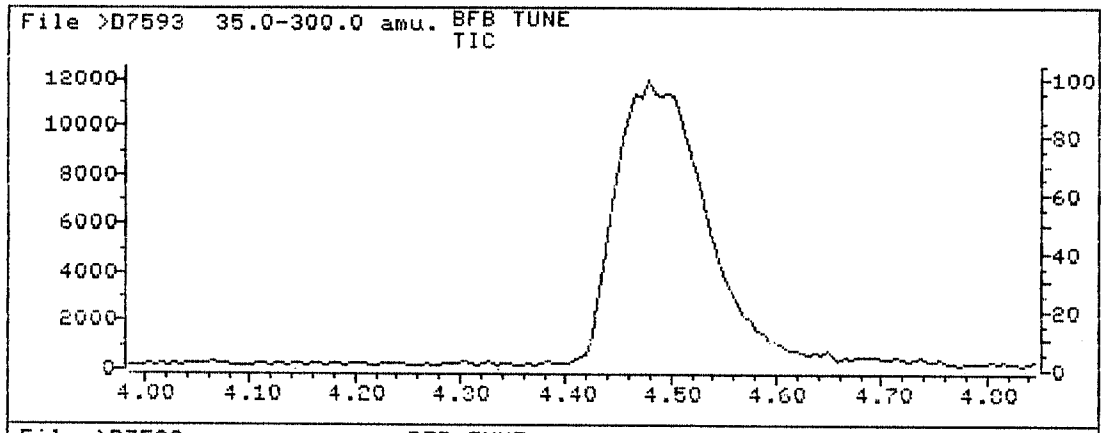
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.05	235.00	55.95	91.00	67.95	487.00	78.85	135.00	94.95	3810.00
38.05	201.00	56.95	110.00	68.95	511.00	80.95	125.00	96.05	240.00
38.85	70.00	59.85	64.00	72.95	220.00	86.85	88.00	173.90	2309.00
48.95	200.00	61.05	210.00	74.05	799.00	92.05	127.00	174.90	200.00
49.95	864.00	61.95	246.00	74.95	2256.00	92.95	186.00	175.80	2203.00
51.05	310.00	63.05	131.00	76.05	196.00	93.95	480.00	176.80	113.00

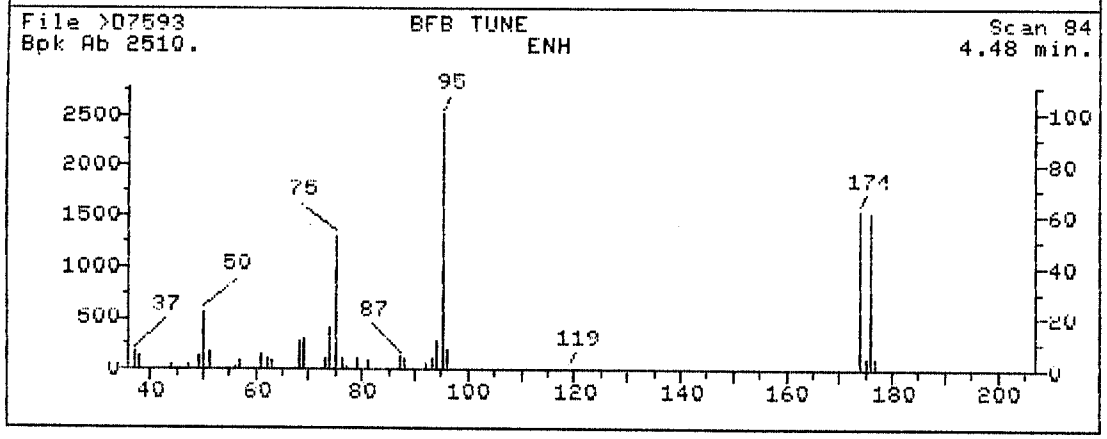
GC/MS PERFORMANCE STANDARD

Bromofluorobenzene (BFB)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
50	15-40% of mass 95	22.36	22.36	Ok
75	30-60% of mass 95	51.63	51.63	Ok
95	Base peak, 100% relative abundance	100.00	100.00	Ok
96	5-9% of mass 95	7.38	7.38	Ok
173	Less than 2% of mass 174	0.00	0.00	Ok
174	Greater than 50% of mass 95	61.55	61.55	Ok
175	5-9% of mass 174	4.24	6.89	Ok
176	95-101% of mass 174	60.86	98.87	Ok
177	5-9% of mass 176	4.35	7.15	Ok

Injection Date: 12/13/94
Injection Time: 12:15
Data File: >D7593
Scan: 84





136

>D7593 BFB TUNE
84 ENH

File: >D7593 Scan #: 84 Retn. time: 4.48

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
36.00	25.80	54.95	12.00	68.10	282.40	80.90	92.40	95.05	2510.00
37.10	167.20	56.05	24.00	69.00	296.60	81.90	4.60	96.05	185.20
38.10	139.00	57.05	83.40	73.00	116.80	87.00	125.60	119.00	9.00
44.05	44.80	58.95	6.00	74.00	410.00	88.00	103.20	173.90	1545.00
47.15	57.00	61.05	145.00	75.00	1295.80	90.85	3.40	175.00	106.40
47.85	13.60	62.05	118.60	76.10	117.80	92.05	67.20	176.00	1527.60
49.05	131.80	63.05	88.60	77.00	20.20	93.05	109.20	176.90	109.20
50.05	561.20	67.30	10.00	78.90	108.00	94.05	269.20	207.15	27.20
51.05	163.80								

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Aqueous
SAMPLE NUMBER	9417643	DILUTION FACTOR	1.0
DATA FILE	>C8576	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/12/94
FIELD ID	BB-FB-01	ANALYZED BY	LARRY

Field Blank

CAS #	COMPOUND	UG/L	MDL	CAS #	COMPOUND	UG/L	MDL
107028	Acrolein	U	50	78875	1,2-Dichloropropane	U	5
107131	Acrylonitrile	U	50	10061015	cis-1,3-Dichloropropene	U	5
74873	Chloromethane	U	10	79016	Trichloroethene	U	5
74839	Bromomethane	U	10	71432	Benzene	U	5
75014	Vinyl Chloride	U	10	124481	Dibromochloromethane	U	5
75003	Chloroethane	U	10	79005	1,1,2-Trichloroethane	U	5
75092	Methylene Chloride	5 BW	5	10061026	trans-1,3-Dichloropropene	U	5
67641	Acetone	U J	10	110758	2-Chloroethylvinylether	U	10
75150	Carbon Disulfide	U	5	75252	Bromoform	U	5
75694	Trichlorofluoromethane	U	10	591786	2-Hexanone	U	10
75354	1,1-Dichloroethene	U	5	108101	4-Methyl-2-pentanone	U	10
75343	1,1-Dichloroethane	U	5	127184	Tetrachloroethene	U	5
156605	trans-1,2-Dichloroethene	U	5	79345	1,1,2,2-Tetrachloroethane	U	5
67663	Chloroform	U	5	108883	Toluene	U	5
107062	1,2-Dichloroethane	U	5	108907	Chlorobenzene	U	5
78933	2-Butanone	U	10	100414	Ethylbenzene	U	5
71556	1,1,1-Trichloroethane	U	5	100425	Styrene	U	5
56235	Carbon Tetrachloride	U	5	1330207	m,p-Xylene	U	5
108054	Vinyl Acetate	U	10	95476	o-Xylene	U	5
75274	Bromodichloromethane	U	5	156592	cis-1,2-Dichloroethene	U	5

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	102 %	76-114	OK
Toluene-d8	97 %	88-110	OK
Bromofluorobenzene	97 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 16:35
Output File: ^C8576::D2 Injected at: 941212 16:05
Data File: >C8576::C2 Dilution Factor: 1.00000
Name: 9417643
Misc: 9548 RFWI BB-FB-01

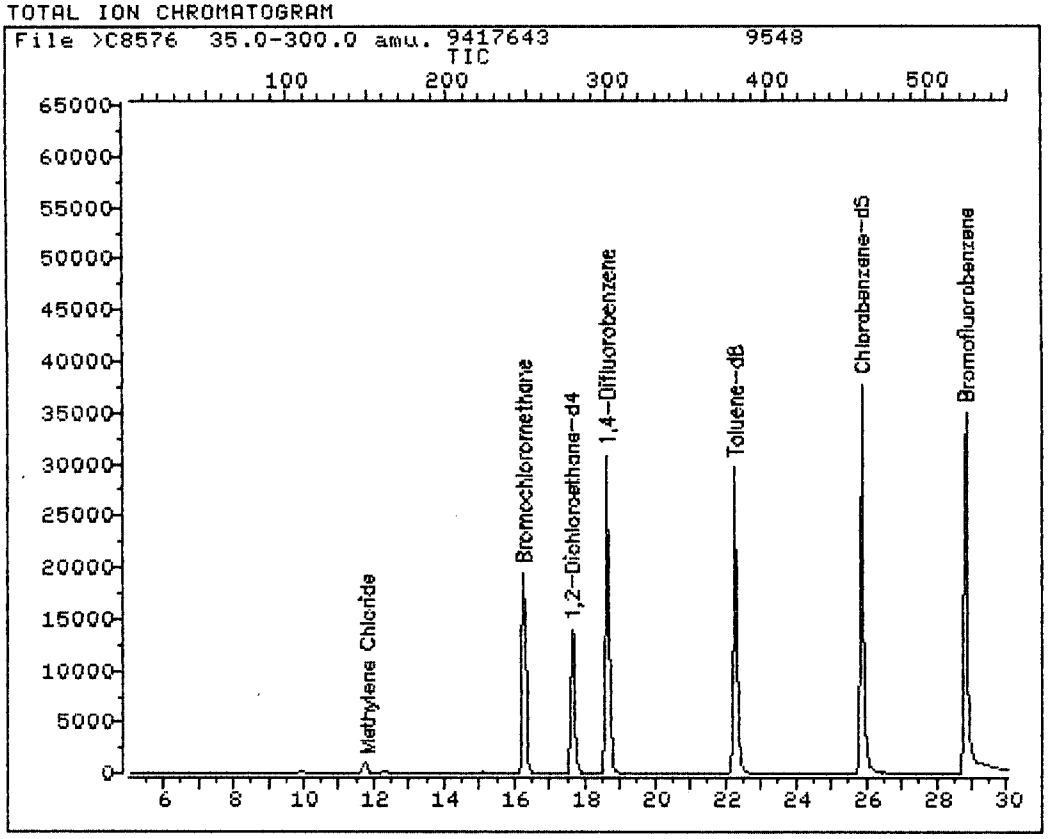
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	22338	50.00	ug/l	91
8)	Methylene Chloride	11.80	150	3318	4.92	ug/l	93
18)	1,2-Dichloroethane-d4	17.63	278	49615	50.88	ug/l	89
20)	*1,4-Difluorobenzene	18.64	300	80113	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	60301	50.00	ug/l	100
41)	Toluene-d8	22.28	380	69498	48.27	ug/l	93
44)	Bromofluorobenzene	28.85	524	59507	48.48	ug/l	92

* Compound is ISTD

284

TOTAL ION CHROMATOGRAM



Data File: >C8576::C2 Quant Output File: ^C8576::D2
Name: 9417643
Misc: 9548 RFWI BB-FB-01

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 16:35
Injected at: 941212 16:05

285

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417644	DILUTION FACTOR	1.0
DATA FILE	>C8453	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/06/94
FIELD ID	BB-SS-01	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	65	78875	1,2-Dichloropropane	U	7
107131	Acrylonitrile	U	65	10061015	cis-1,3-Dichloropropene	U	7
74873	Chloromethane	U	13	79016	Trichloroethene	U	7
74839	Bromomethane	U	13	71432	Benzene	U	7
75014	Vinyl Chloride	U	13	124481	Dibromochloromethane	U	7
75003	Chloroethane	U	13	79005	1,1,2-Trichloroethane	U	7
75092	Methylene Chloride	6 BJ	7	10061026	trans-1,3-Dichloropropene	U	7
67641	Acetone	U	13	110758	2-Chloroethylvinylether	U	13
75150	Carbon Disulfide	U	7	75252	Bromoform	U	7
75694	Trichlorofluoromethane	U	13	591786	2-Hexanone	U	13
75354	1,1-Dichloroethene	U	7	108101	4-Methyl-2-pentanone	U	13
75343	1,1-Dichloroethane	U	7	127184	Tetrachloroethene	U	7
156605	trans-1,2-Dichloroethene	U	7	79345	1,1,2,2-Tetrachloroethane	U	7
67663	Chloroform	U	7	108883	Toluene	U	7
107062	1,2-Dichloroethane	U	7	108907	Chlorobenzene	U	7
78933	2-Butanone	U	13	100414	Ethylbenzene	U	7
71556	1,1,1-Trichloroethane	U	7	100425	Styrene	U	7
56235	Carbon Tetrachloride	U	7	1330207	m,p-Xylene	U	7
108054	Vinyl Acetate	U	13	95476	o-Xylene	U	7
75274	Bromodichloromethane	U	7	156592	cis-1,2-Dichloroethene	U	7

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	111 %	70-121	OK
Toluene-d8	124 %	81-117	OUT
Bromofluorobenzene	77 %	74-121	OK

Percent solid of 76.6 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941206 20:33
Output File: ^C8453::D2 Injected at: 941206 20:02
Data File: >C8453::C2 Dilution Factor: 1.00000
Name: 9417644
Misc: 9548 RFWI BB-SS-01

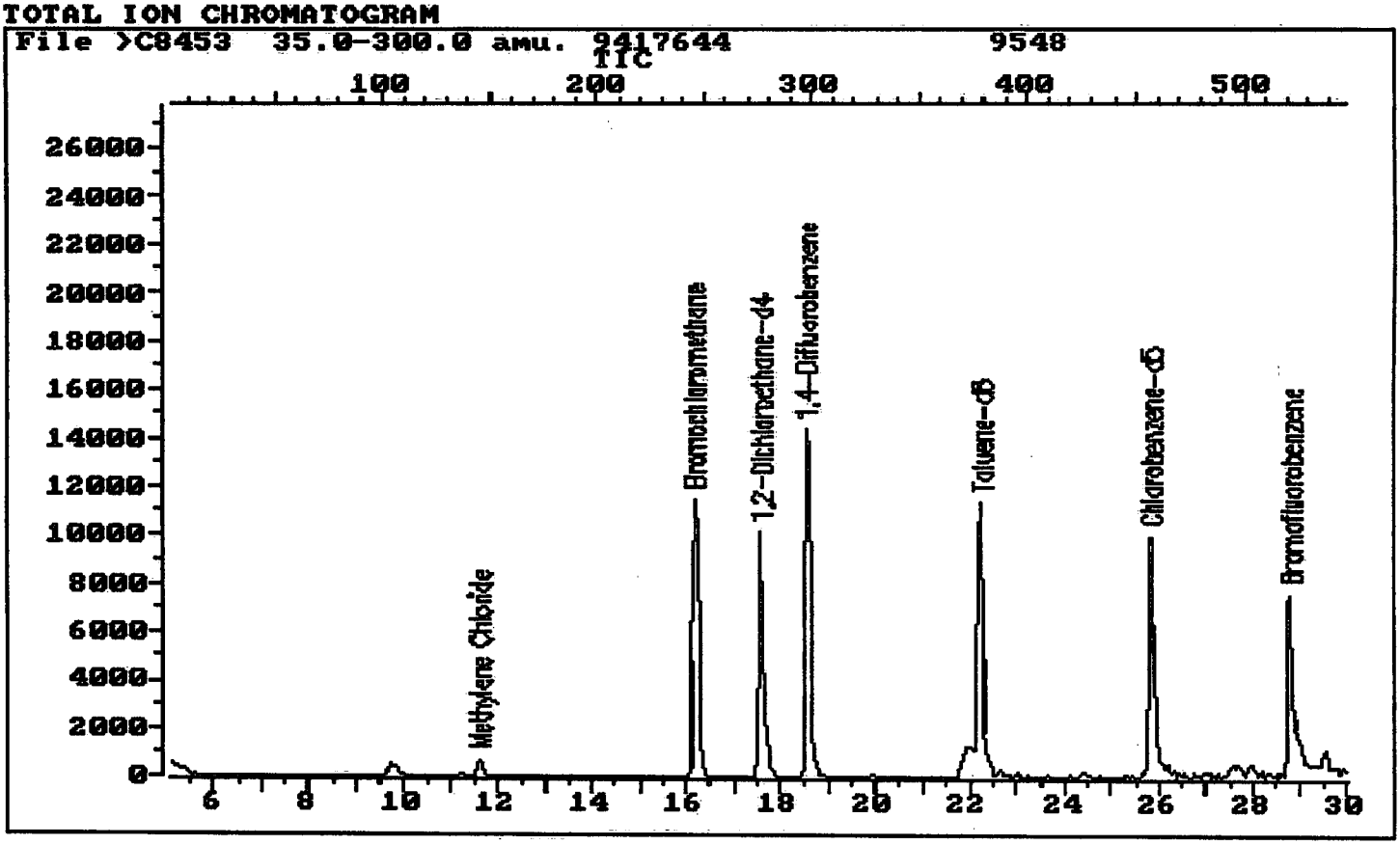
ID File: IDCS38::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941202 12:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.17	245	15088	50.00	ug/l	95
8)	Methylene Chloride	11.62	145	2435	4.56	ug/l	95
18)	1,2-Dichloroethane-d4	17.59	276	33948	55.75	ug/l	91
20)	*1,4-Difluorobenzene	18.55	297	43839	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.84	457	19208	50.00	ug/l	100
41)	Toluene-d8	22.24	378	29844	61.86	ug/l	94
44)	Bromofluorobenzene	28.81	522	13658M	38.44	ug/l	

* Compound is ISTD

286

TOTAL ION CHROMATOGRAM



Data File: >C8453::C2 Quant Output File: ^C8453::D2
Name: 9417644
Misc: 9548 RFWI BB-SS-01

Id File: IDCS38::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941202 12:45

Operator ID: LARRY
Quant Time: 941206 20:33
Injected at: 941206 20:02

287

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417645	DILUTION FACTOR	1.0
DATA FILE	>C8553	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/11/94
FIELD ID	BB-SS-02	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U J	64	78875	1,2-Dichloropropane	U J	6
107131	Acrylonitrile	U	64	10061015	cis-1,3-Dichloropropene	U	6
74873	Chloromethane	U	13	79016	Trichloroethene	U	6
74839	Bromomethane	U	13	71432	Benzene	U	6
75014	Vinyl Chloride	U	13	124481	Dibromochloromethane	U	6
75003	Chloroethane	U	13	79005	1,1,2-Trichloroethane	U	6
75092	Methylene Chloride	U	6	10061026	trans-1,3-Dichloropropene	U	6
67641	Acetone	72	13	110758	2-Chloroethylvinylether	U	13
75150	Carbon Disulfide	U	6	75252	Bromoform	U	6
75694	Trichlorofluoromethane	U	13	591786	2-Hexanone	U	13
75354	1,1-Dichloroethene	U	6	108101	4-Methyl-2-pentanone	U	13
75343	1,1-Dichloroethane	U	6	127184	Tetrachloroethene	U	6
156605	trans-1,2-Dichloroethene	U	6	79345	1,1,2,2-Tetrachloroethane	U	6
67663	Chloroform	U	6	108883	Toluene	U	6
107062	1,2-Dichloroethane	U	6	108907	Chlorobenzene	U	6
78933	2-Butanone	U	13	100414	Ethylbenzene	U	6
71556	1,1,1-Trichloroethane	U	6	100425	Styrene	U	6
56235	Carbon Tetrachloride	U	6	1330207	m,p-Xylene	U	6
108054	Vinyl Acetate	U	13	95476	o-Xylene	U	6
75274	Bromodichloromethane	U J	6	156592	cis-1,2-Dichloroethene	U J	6

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	110 %	70-121	OK
Toluene-d8	128 %	81-117	OUT
Bromofluorobenzene	67 %	74-121	OUT

Percent solid of 77.6 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941211 21:14
Output File: ^C8553::D2 Injected at: 941211 20:43
Data File: >C8553::C2 Dilution Factor: 1.00000
Name: 9417645
Misc: 9548 RFWI BB-SS-02

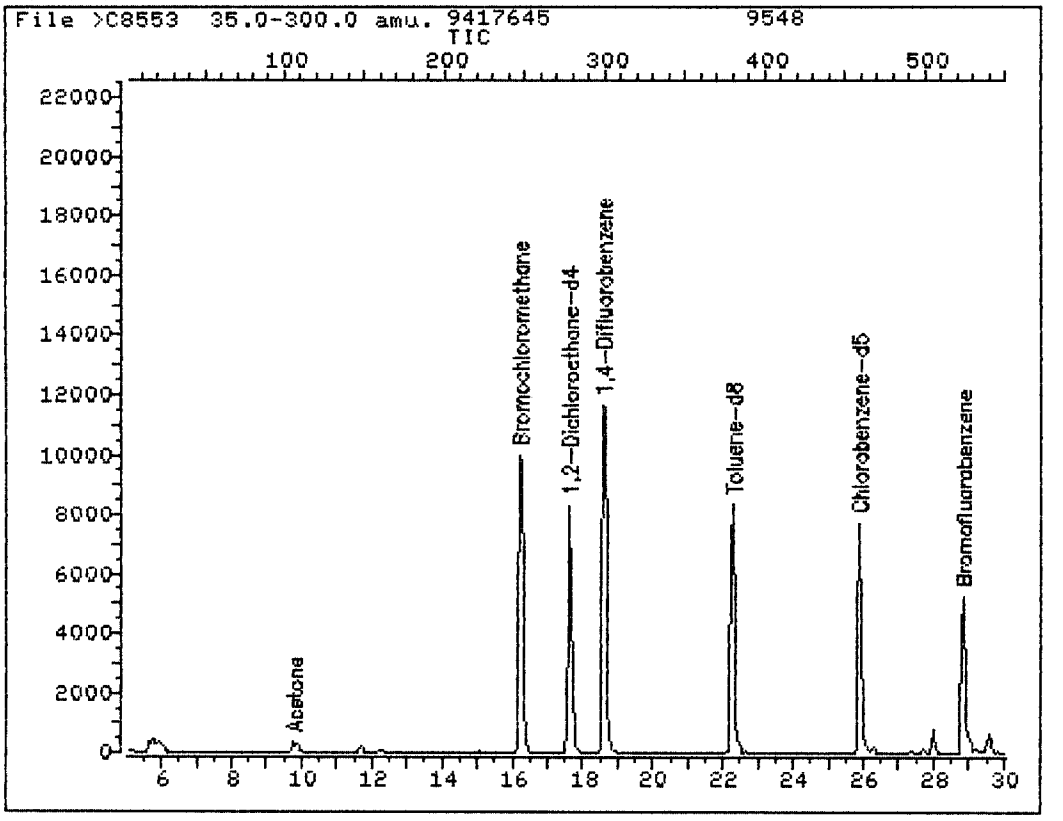
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.22	247	12723	50.00	ug/l	96
9)	Acetone	9.80	106	4154	55.58	ug/l	100
18)	1,2-Dichloroethane-d4	17.64	278	28633	55.23	ug/l	89
20)	*1,4-Difluorobenzene	18.59	299	34952	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	13985	50.00	ug/l	100
41)	Toluene-d8	22.29	380	21738	63.78	ug/l	93
44)	Bromofluorobenzene	28.85	524	9135M	33.51	ug/l	

* Compound is ISTD

288

TOTAL ION CHROMATOGRAM



Data File: >C8553::C2 Quant Output File: ^C8553::D2
Name: 9417645
Misc: 9548 RFWI BB-SS-02

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941211 21:14
Injected at: 941211 20:43

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417646	DILUTION FACTOR	2
DATA FILE	>C8537	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/09/94
FIELD ID	BB-SS-03	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	130	78875	1,2-Dichloropropane	U	13
107131	Acrylonitrile	U	130	10061015	cis-1,3-Dichloropropene	U	13
74873	Chloromethane	U	26	79016	Trichloroethene	U	13
74839	Bromomethane	U	26	71432	Benzene	U	13
75014	Vinyl Chloride	U	26	124481	Dibromochloromethane	U	13
75003	Chloroethane	U	26	79005	1,1,2-Trichloroethane	U	13
75092	Methylene Chloride	39 BUJ	13	10061026	trans-1,3-Dichloropropene	U	13
67641	Acetone	U	26	110758	2-Chloroethylvinylether	U	26
75150	Carbon Disulfide	U	13	75252	Bromoform	U	13
75694	Trichlorofluoromethane	7 J	26	591786	2-Hexanone	U	26
75354	1,1-Dichloroethene	U	13	108101	4-Methyl-2-pentanone	U	26
75343	1,1-Dichloroethane	U	13	127184	Tetrachloroethene	U	13
156605	trans-1,2-Dichloroethene	U	13	79345	1,1,2,2-Tetrachloroethane	U	13
67663	Chloroform	U	13	108883	Toluene	U	13
107062	1,2-Dichloroethane	U	13	108907	Chlorobenzene	U	13
78933	2-Butanone	U	26	100414	Ethylbenzene	U	13
71556	1,1,1-Trichloroethane	U	13	100425	Styrene	U	13
56235	Carbon Tetrachloride	U	13	1330207	m,p-Xylene	U	13
108054	Vinyl Acetate	U	26	95476	o-Xylene	U	13
75274	Bromodichloromethane	U	13	156592	cis-1,2-Dichloroethene	U	13

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	103 %	70-121	OK
Toluene-d8	135 %	81-117	OUT
Bromofluorobenzene	88 %	74-121	OK

Percent solid of 77.8 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941211 16:42
Output File: ^C8537::D2 Injected at: 941209 20:12
Data File: >C8537::C2 Dilution Factor: 1.00000
Name: 9417646
Misc: 9548 RFWI BB-SS-03

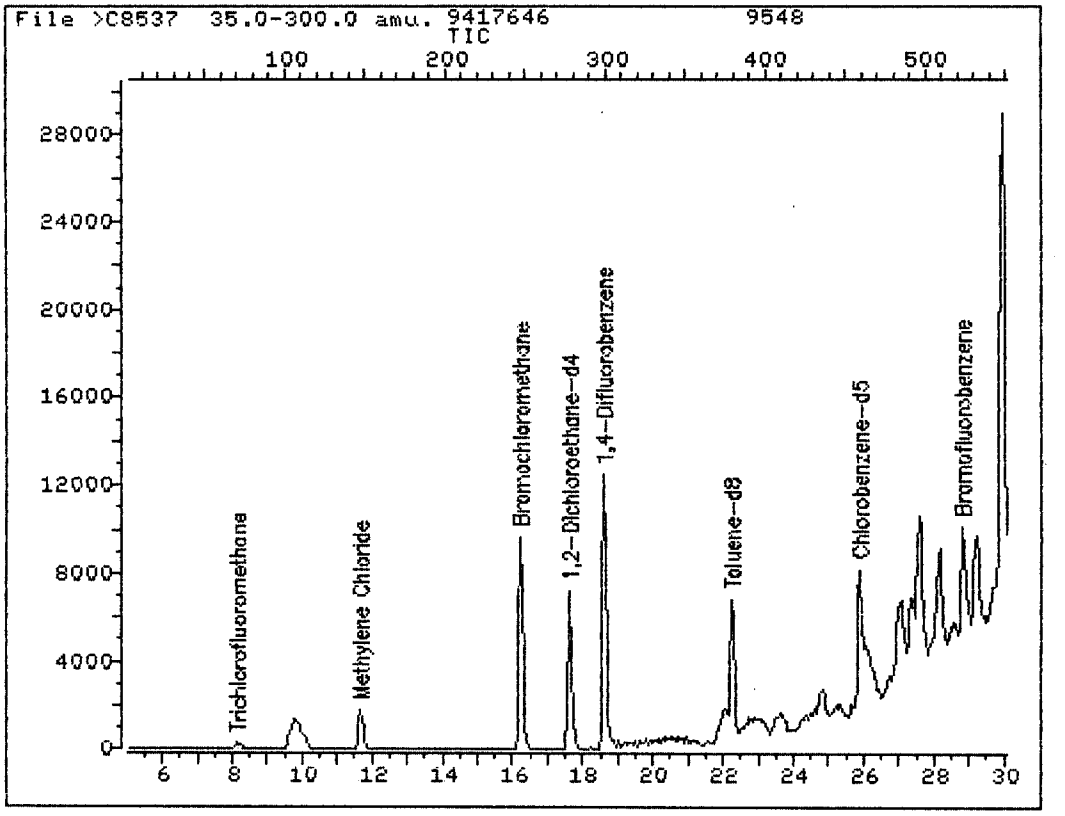
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.22	247	12593	50.00	ug/l	93
8)	Methylene Chloride	11.66	147	6267	15.07	ug/l	99
11)	Trichlorofluoromethane	8.15	70	2535	2.89	ug/l	89
18)	1,2-Dichloroethane-d4	17.64	278	26541	51.72	ug/l	90
20)	*1,4-Difluorobenzene	18.59	299	34013	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	10281	50.00	ug/l	100
41)	Toluene-d8	22.24	379	16858	67.28	ug/l	92
44)	Bromofluorobenzene	28.81	523	8789M	43.86	ug/l	

* Compound is ISTD

290

TOTAL ION CHROMATOGRAM



Data File: >C8537::C2 Quant Output File: ^C8537::D2
Name: 9417646
Misc: 9548 RFWI BB-SS-03

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941211 16:42
Injected at: 941209 20:12

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417647	DILUTION FACTOR	1.0
DATA FILE	>C8538	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/09/94
FIELD ID	BB-SS-04	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	59	78875	1,2-Dichloropropane	U	6
107131	Acrylonitrile	U	59	10061015	cis-1,3-Dichloropropene	U	6
74873	Chloromethane	U	12	79016	Trichloroethene	U	6
74839	Bromomethane	U	12	71432	Benzene	U	6
75014	Vinyl Chloride	U	12	124481	Dibromochloromethane	U	6
75003	Chloroethane	U	12	79005	1,1,2-Trichloroethane	U	6
75092	Methylene Chloride	17 ~~B~~U	6	10061026	trans-1,3-Dichloropropene	U	6
67641	Acetone	U	12	110758	2-Chloroethylvinylether	U	12
75150	Carbon Disulfide	U	6	75252	Bromoform	U	6
75694	Trichlorofluoromethane	4 J	12	591786	2-Hexanone	U	12
75354	1,1-Dichloroethene	U	6	108101	4-Methyl-2-pentanone	U	12
75343	1,1-Dichloroethane	U	6	127184	Tetrachloroethene	U	6
156605	trans-1,2-Dichloroethene	U	6	79345	1,1,2,2-Tetrachloroethane	U	6
67663	Chloroform	7	6	108883	Toluene	U	6
107062	1,2-Dichloroethane	U	6	108907	Chlorobenzene	U	6
78933	2-Butanone	U	12	100414	Ethylbenzene	U	6
71556	1,1,1-Trichloroethane	U	6	100425	Styrene	U	6
56235	Carbon Tetrachloride	U	6	1330207	m,p-Xylene	U	6
108054	Vinyl Acetate	U	12	95476	o-Xylene	U	6
75274	Bromodichloromethane	U	6	156592	cis-1,2-Dichloroethene	U	6

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	107 %	70-121	OK
Toluene-d8	88 %	81-117	OK
Bromofluorobenzene	101 %	74-121	OK

Percent solid of 84.7 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941211 16:43
Output File: ^C8538::D2 Injected at: 941209 20:49
Data File: >C8538::C2 Dilution Factor: 1.00000
Name: 9417647
Misc: 9548 RFWI BB-SS-04

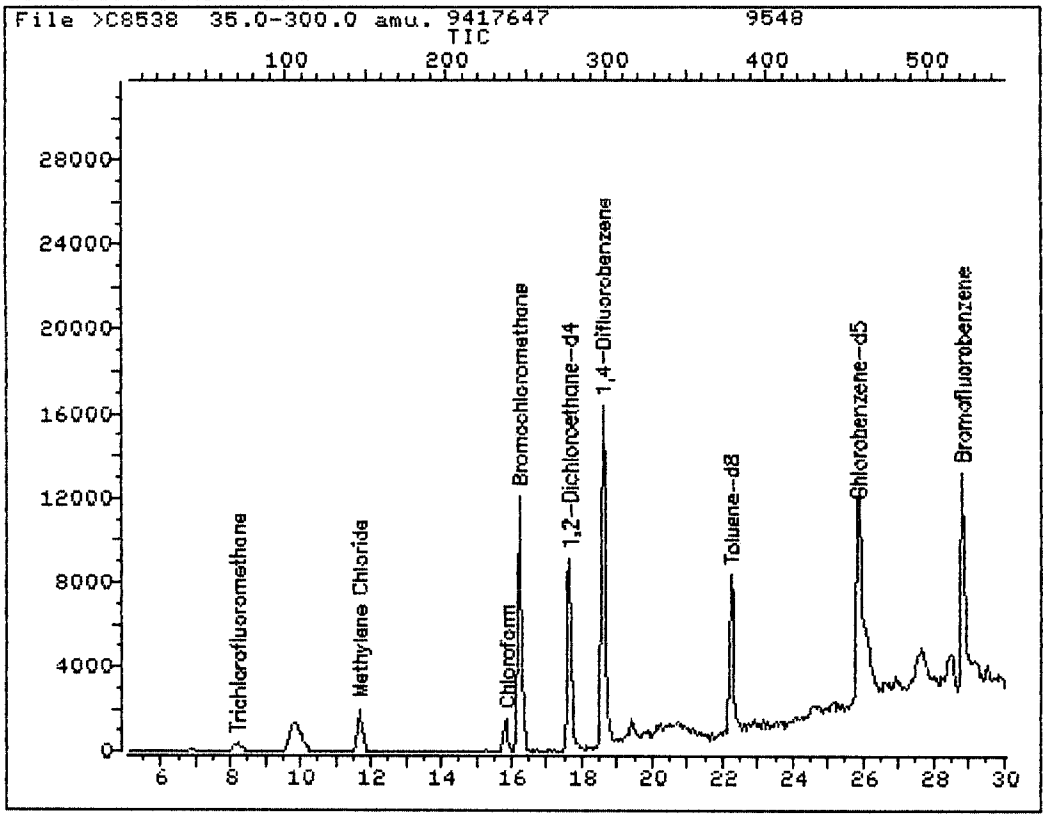
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.23	246	15332	50.00	ug/l	94
8)	Methylene Chloride	11.67	146	7288	14.40	ug/l	96
11)	Trichlorofluoromethane	8.20	70	3763	3.52	ug/l	83
17)	Chloroform	15.86	238	5480	5.50	ug/l	94
18)	1,2-Dichloroethane-d4	17.64	277	33433	53.51	ug/l	88
20)	*1,4-Difluorobenzene	18.60	298	44097	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.85	457	17873	50.00	ug/l	100
41)	Toluene-d8	22.25	378	19143	43.95	ug/l	96
44)	Bromofluorobenzene	28.81	522	17663M	50.70	ug/l	

* Compound is ISTD

292

TOTAL ION CHROMATOGRAM



Data File: >C8538::C2 Quant Output File: ^C8538::D2
Name: 9417647
Misc: 9548 RFWI BB-SS-04

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941211 16:43
Injected at: 941209 20:49

293

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417648	DILUTION FACTOR	1.0
DATA FILE	>C8539	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/09/94
FIELD ID	BB-SS-05	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	63	78875	1,2-Dichloropropane	U	6
107131	Acrylonitrile	U	63	10061015	cis-1,3-Dichloropropene	U	6
74873	Chloromethane	U	13	79016	Trichloroethene	U	6
74839	Bromomethane	U	13	71432	Benzene	U	6
75014	Vinyl Chloride	U	13	124481	Dibromochloromethane	U	6
75003	Chloroethane	U	13	79005	1,1,2-Trichloroethane	U	6
75092	Methylene Chloride	15 BUJ	6	10061026	trans-1,3-Dichloropropene	U	6
67641	Acetone	U	13	110758	2-Chloroethylvinylether	U	13
75150	Carbon Disulfide	U	6	75252	Bromoform	U	6
75694	Trichlorofluoromethane	U	13	591786	2-Hexanone	U	13
75354	1,1-Dichloroethene	U	6	108101	4-Methyl-2-pentanone	U	13
75343	1,1-Dichloroethane	U	6	127184	Tetrachloroethene	U	6
156605	trans-1,2-Dichloroethene	U	6	79345	1,1,2,2-Tetrachloroethane	U	6
67663	Chloroform	U	6	108883	Toluene	U	6
107062	1,2-Dichloroethane	U	6	108907	Chlorobenzene	U	6
78933	2-Butanone	U	13	100414	Ethylbenzene	U	6
71556	1,1,1-Trichloroethane	U	6	100425	Styrene	U	6
56235	Carbon Tetrachloride	U	6	1330207	m,p-Xylene	U	6
108054	Vinyl Acetate	U	13	95476	o-Xylene	U	6
75274	Bromodichloromethane	U	6	156592	cis-1,2-Dichloroethene	U	6

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	109 %	70-121	OK
Toluene-d8	132 %	81-117	OUT
Bromofluorobenzene	77 %	74-121	OK

Percent solid of 79.2 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941211 16:43
Output File: ^C8539::D2 Injected at: 941209 21:25
Data File: >C8539::C2 Dilution Factor: 1.00000
Name: 9417648
Misc: 9548 RFWI BB-SS-05

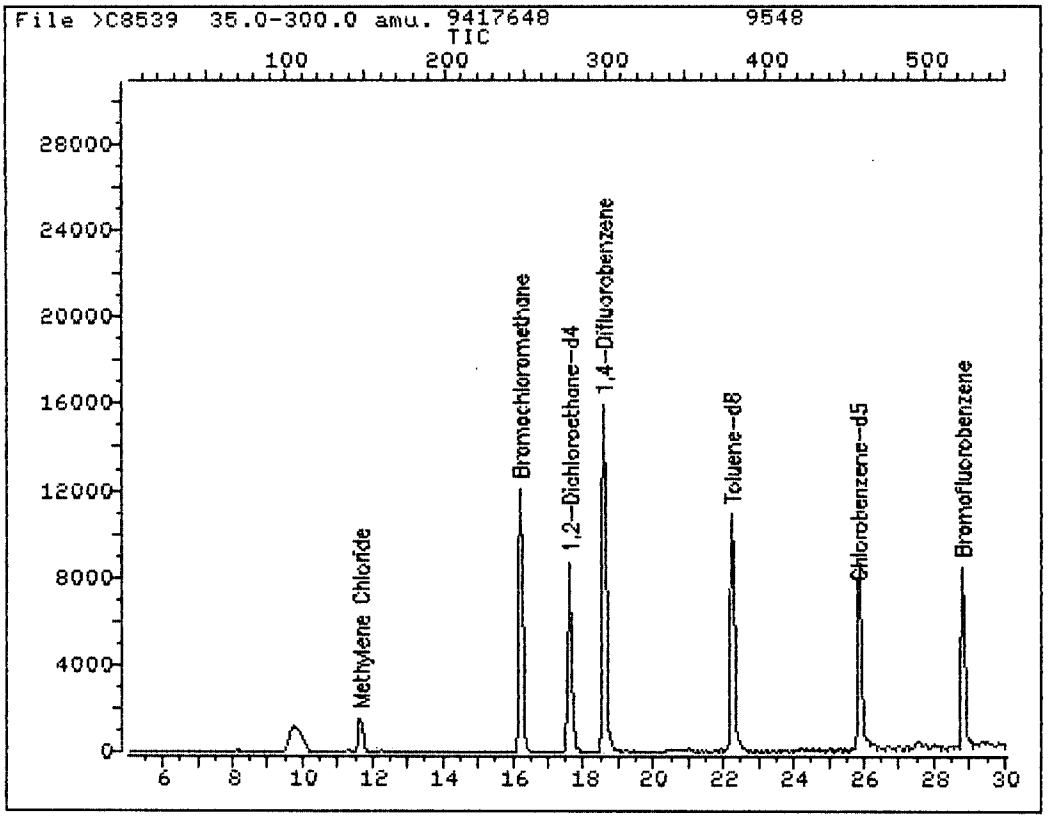
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.22	247	14993	50.00	ug/l	95
8)	Methylene Chloride	11.67	147	5791	11.70	ug/l	97
18)	1,2-Dichloroethane-d4	17.64	278	33177	54.31	ug/l	89
20)	*1,4-Difluorobenzene	18.59	299	43375	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.84	458	17161	50.00	ug/l	100
41)	Toluene-d8	22.24	379	27632	66.06	ug/l	94
44)	Bromofluorobenzene	28.81	523	12816M	38.31	ug/l	

* Compound is ISTD

294

TOTAL ION CHROMATOGRAM



Data File: >C8539::C2 Quant Output File: ^C8539::D2
Name: 9417648
Misc: 9548 RFWI BB-SS-05

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941211 16:43
Injected at: 941209 21:25

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417649	DILUTION FACTOR	1.0
DATA FILE	>C8557	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/11/94
FIELD ID	BB-SS-06	ANALYZED BY	LARRY

Surr

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U J	68	78875	1,2-Dichloropropane	U J	7
107131	Acrylonitrile	U	68	10061015	cis-1,3-Dichloropropene	U	7
74873	Chloromethane	U	14	79016	Trichloroethene	U	7
74839	Bromomethane	U	14	71432	Benzene	U	7
75014	Vinyl Chloride	U	14	124481	Dibromochloromethane	U	7
75003	Chloroethane	U	14	79005	1,1,2-Trichloroethane	U	7
75092	Methylene Chloride	6 ~~B~~ U	7	10061026	trans-1,3-Dichloropropene	U	7
67641	Acetone	U	14	110758	2-Chloroethylvinylether	U	14
75150	Carbon Disulfide	U	7	75252	Bromoform	U	7
75694	Trichlorofluoromethane	9 J	14	591786	2-Hexanone	U	14
75354	1,1-Dichloroethene	U	7	108101	4-Methyl-2-pentanone	U	14
75343	1,1-Dichloroethane	U	7	127184	Tetrachloroethene	U	7
156605	trans-1,2-Dichloroethene	U	7	79345	1,1,2,2-Tetrachloroethane	U	7
67663	Chloroform	U	7	108883	Toluene	U	7
107062	1,2-Dichloroethane	U	7	108907	Chlorobenzene	U	7
78933	2-Butanone	U	14	100414	Ethylbenzene	U	7
71556	1,1,1-Trichloroethane	U	7	100425	Styrene	U	7
56235	Carbon Tetrachloride	U	7	1330207	m,p-Xylene	U	7
108054	Vinyl Acetate	U	14	95476	o-Xylene	U	7
75274	Bromodichloromethane	U J	7	156592	cis-1,2-Dichloroethene	U J	7

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	134 %	70-121	OUT
Toluene-d8	63 %	81-117	OUT
Bromofluorobenzene	108 %	74-121	OK

Percent solid of 73.3 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941211 23:39
Output File: ^C8557::D2 Injected at: 941211 23:08
Data File: >C8557::C2 Dilution Factor: 1.00000
Name: 9417649
Misc: 9548 RFWI BB-SS-06

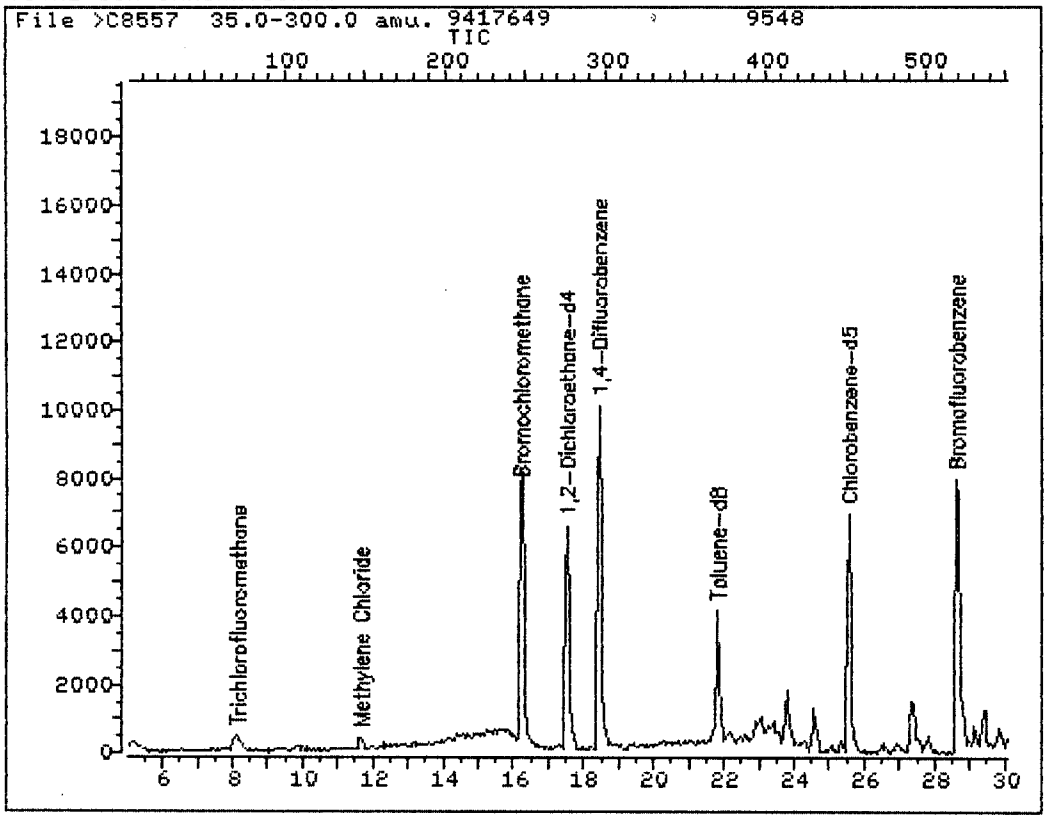
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.23	247	8496	50.00	ug/l	99
8)	Methylene Chloride	11.67	147	1258	4.49	ug/l	93
11)	Trichlorofluoromethane	8.15	70	3849	6.50	ug/l	95
18)	1,2-Dichloroethane-d4	17.55	276	23277	67.24	ug/l	88
20)	*1,4-Difluorobenzene	18.46	296	24926	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.57	452	11792	50.00	ug/l	100
41)	Toluene-d8	21.83	370	9099	31.66	ug/l	89
44)	Bromofluorobenzene	28.63	519	12410M	53.99	ug/l	

* Compound is ISTD

296

TOTAL ION CHROMATOGRAM



Data File: >C8557::C2 Quant Output File: ^C8557::D2
Name: 9417649
Misc: 9548 RFWI BB-SS-06

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941211 23:39
Injected at: 941211 23:08

297

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417650	DILUTION FACTOR	1.0
DATA FILE	>C8541	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/09/94
FIELD ID	BB-SS-07	ANALYZED BY	LARRY

Soil

CAS #	COMPOUND	UG/KG		MDL
107028	Acrolein	U	J	62
107131	Acrylonitrile	U		62
74873	Chloromethane	U		12
74839	Bromomethane	U		12
75014	Vinyl Chloride	U		12
75003	Chloroethane	U		12
75092	Methylene Chloride	19 ~~8~~ U		6
67641	Acetone	U		12
75150	Carbon Disulfide	U		6
75694	Trichlorofluoromethane	U		12
75354	1,1-Dichloroethene	U		6
75343	1,1-Dichloroethane	U		6
156605	trans-1,2-Dichloroethene	U		6
67663	Chloroform	U		6
107062	1,2-Dichloroethane	U		6
78933	2-Butanone	U		12
71556	1,1,1-Trichloroethane	U		6
56235	Carbon Tetrachloride	U		6
108054	Vinyl Acetate	U		12
75274	Bromodichloromethane	U		6

CAS #	COMPOUND	UG/KG		MDL
78875	1,2-Dichloropropane	U	J	6
10061015	cis-1,3-Dichloropropene	U		6
79016	Trichloroethene	U		6
71432	Benzene	U		6
124481	Dibromochloromethane	U		6
79005	1,1,2-Trichloroethane	U		6
10061026	trans-1,3-Dichloropropene	U		6
110758	2-Chloroethylvinylether	U		12
75252	Bromoform	U		6
591786	2-Hexanone	U		12
108101	4-Methyl-2-pentanone	U		12
127184	Tetrachloroethene	U		6
79345	1,1,2,2-Tetrachloroethane	U		6
108883	Toluene	U		6
108907	Chlorobenzene	U		6
100414	Ethylbenzene	U		6
100425	Styrene	U		6
1330207	m,p-Xylene	U		6
95476	o-Xylene	U		6
156592	cis-1,2-Dichloroethene	U		6

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	118 %	70-121	OK
Toluene-d8	139 %	81-117	OUT
Bromofluorobenzene	68 %	74-121	OUT

Percent solid of 80.8 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941211 16:45
Output File: ^C8541::D2 Injected at: 941209 22:38
Data File: >C8541::C2 Dilution Factor: 1.00000
Name: 9417650
Misc: 9548 RFWI BB-SS-07

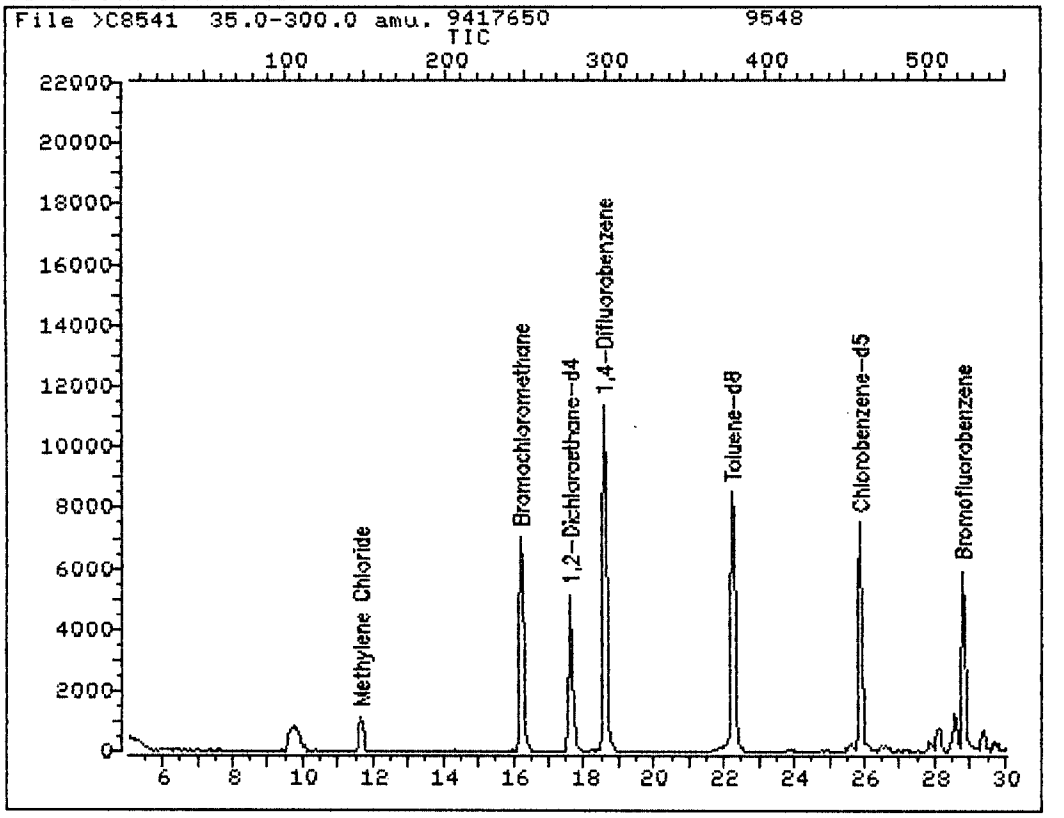
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.22	247	8070	50.00	ug/l	96
8)	Methylene Chloride	11.66	147	4163	15.63	ug/l	99
18)	1,2-Dichloroethane-d4	17.63	278	19352	58.85	ug/l	87
20)	*1,4-Difluorobenzene	18.59	299	28571	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	12657	50.00	ug/l	100
41)	Toluene-d8	22.24	379	21510	69.73	ug/l	89
44)	Bromofluorobenzene	28.80	523	8422M	34.14	ug/l	

* Compound is ISTD

298

TOTAL ION CHROMATOGRAM



Data File: >C8541::C2 Quant Output File: ^C8541::D2
Name: 9417650
Misc: 9548 RFWI BB-SS-07

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941211 16:45
Injected at: 941209 22:38

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417651	DILUTION FACTOR	2/10
DATA FILE	>C8607/>C8611	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-SS-08	ANALYZED BY	LARRY

Surrogate

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	130	78875	1,2-Dichloropropane	U	13
107131	Acrylonitrile	U	130	10061015	cis-1,3-Dichloropropene	U	13
74873	Chloromethane	U	26	79016	Trichloroethene	U	13
74839	Bromomethane	U	26	71432	Benzene	U	13
75014	Vinyl Chloride	U	26	124481	Dibromochloromethane	U	13
75003	Chloroethane	U	26	79005	1,1,2-Trichloroethane	U	13
75092	Methylene Chloride	15 ~~B~~ U	13	10061026	trans-1,3-Dichloropropene	U	13
67641	Acetone	U	26	110758	2-Chloroethylvinylether	U	26
75150	Carbon Disulfide	U	13	75252	Bromoform	U	13
75694	Trichlorofluoromethane	U	26	591786	2-Hexanone	U	26
75354	1,1-Dichloroethene	U	13	108101	4-Methyl-2-pentanone	U	26
75343	1,1-Dichloroethane	U	13	127184	Tetrachloroethene	U	13
156605	trans-1,2-Dichloroethene	U	13	79345	1,1,2,2-Tetrachloroethane	U	13
67663	Chloroform	U	13	108883	Toluene	U	13
107062	1,2-Dichloroethane	U	13	108907	Chlorobenzene	U	13
78933	2-Butanone	U	26	100414	Ethylbenzene	U	13
71556	1,1,1-Trichloroethane	U	13	100425	Styrene	U	13
56235	Carbon Tetrachloride	U	13	1330207	m,p-Xylene	U	13
108054	Vinyl Acetate	U	26	95476	o-Xylene	U	13
75274	Bromodichloromethane	U	13	156592	cis-1,2-Dichloroethene	U	13

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	59 %	70-121	OUT
Toluene-d8	113 %	81-117	OK
Bromofluorobenzene	53 %	74-121	OUT

Percent solid of 77.8 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 16:39
Output File: ^C8607::D2 Injected at: 941213 16:08
Data File: >C8607::C2 Dilution Factor: 1.00000
Name: 9417651
Misc: 9548 RFWI BB-SS-08

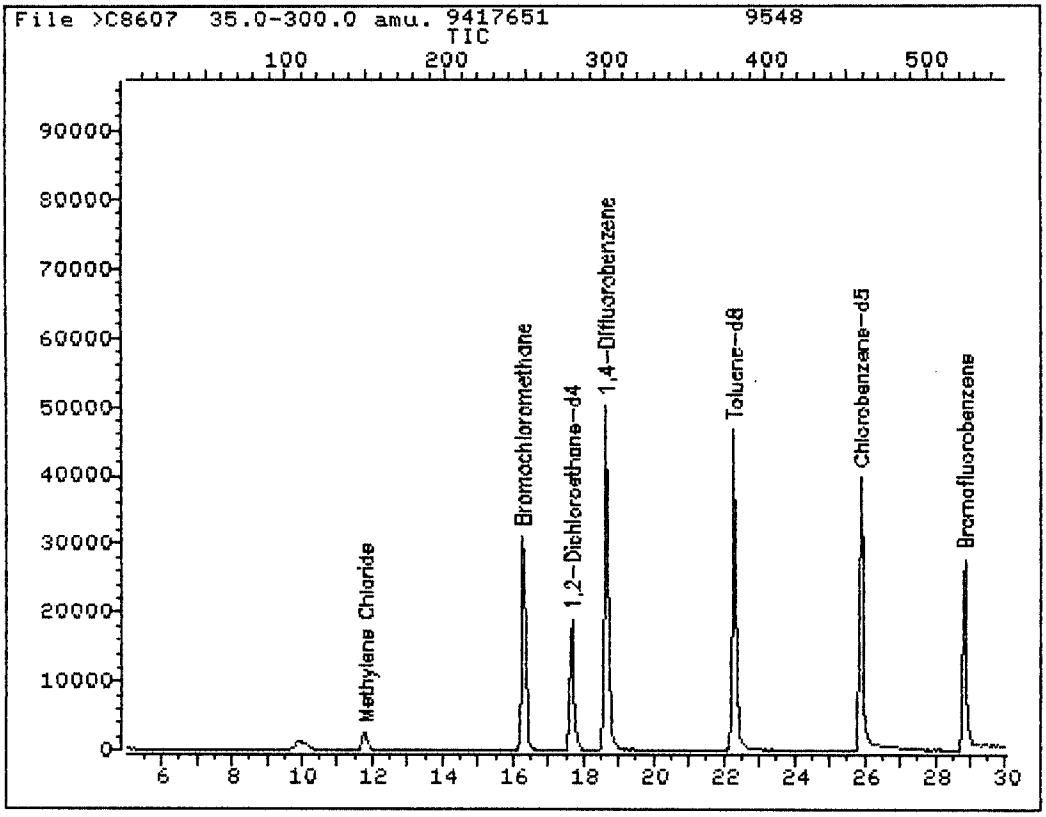
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	47129	50.00	ug/l	95
8)	Methylene Chloride	11.80	150	8806	5.66	ug/l	95
18)	1,2-Dichloroethane-d4	17.69	279	55672	28.99	ug/l	95
20)	*1,4-Difluorobenzene	18.64	300	170669	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	89156	50.00	ug/l	100
41)	Toluene-d8	22.29	380	127726	58.78	ug/l	98
44)	Bromofluorobenzene	28.86	524	48879M	28.13	ug/l	

* Compound is ISTD

300

TOTAL ION CHROMATOGRAM



Data File: >C8607::C2 Quant Output File: ^C8607::D2
Name: 9417651
Misc: 9548 RFWI BB-SS-08

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941213 16:39
Injected at: 941213 16:08

QUANT REPORT

Operator ID: LARRY
Output File: ^C8611::D2
Data File: >C8611::C2
Name: 9417651
Misc: 9548

Quant Rev: 6
Quant Time: 941213 19:14
Injected at: 941213 18:43
Dilution Factor: 1.00000

RFWI

BB-SS-08

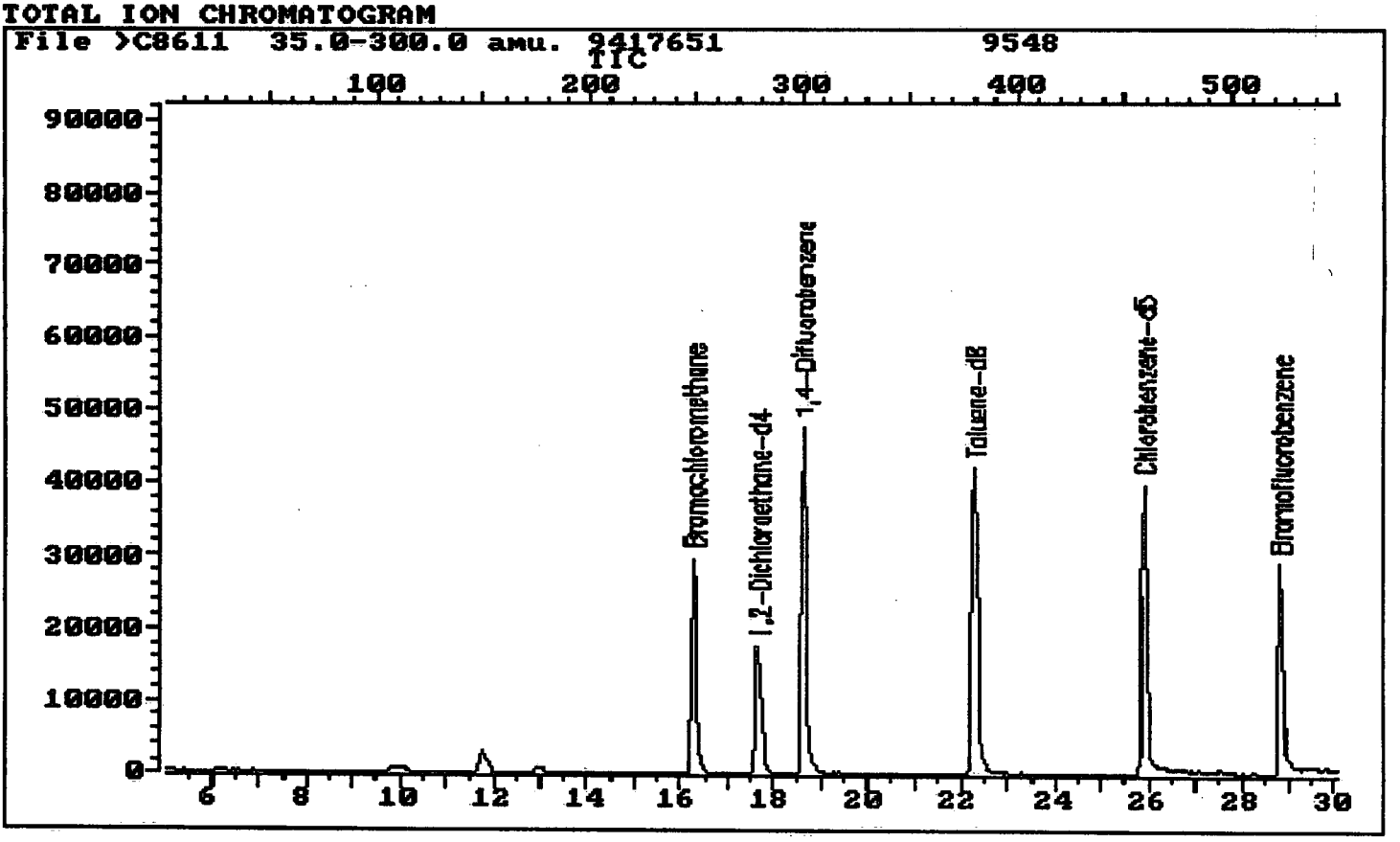
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.28	248	43011	50.00	ug/l	93
18)	1,2-Dichloroethane-d4	17.70	279	51509	29.39	ug/l	93
20)	*1,4-Difluorobenzene	18.65	300	162063	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.90	459	89409	50.00	ug/l	100
41)	Toluene-d8	22.30	380	123563	56.70	ug/l	96
44)	Bromofluorobenzene	28.82	523	46383M	26.61	ug/l	

* Compound is ISTD

302

TOTAL ION CHROMATOGRAM



Data File: >C8611::C2 Quant Output File: ^C8611::D2
Name: 9417651
Misc: 9548 RFWI BB-SS-08

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941213 19:14
Injected at: 941213 18:43

303

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417652	DILUTION FACTOR	100/5000
DATA FILE	>C8560/>C8578	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/12/94
FIELD ID	BB-DS-01	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	5200	78875	1,2-Dichloropropane	U	520
107131	Acrylonitrile	U	5200	10061015	cis-1,3-Dichloropropene	U	520
74873	Chloromethane	U	1000	79016	Trichloroethene	U	520
74839	Bromomethane	U	1000	71432	Benzene	U	520
75014	Vinyl Chloride	U	1000	124481	Dibromochloromethane	U	520
75003	Chloroethane	U	1000	79005	1,1,2-Trichloroethane	U	520
75092	Methylene Chloride	U	520	10061026	trans-1,3-Dichloropropene	U	520
67641	Acetone	U J	1000	110758	2-Chloroethylvinylether	U	1000
75150	Carbon Disulfide	U	520	75252	Bromoform	U	520
75694	Trichlorofluoromethane	U	1000	591786	2-Hexanone	690000	1000
75354	1,1-Dichloroethene	U	520	108101	4-Methyl-2-pentanone	U	1000
75343	1,1-Dichloroethane	U	520	127184	Tetrachloroethene	U	520
156605	trans-1,2-Dichloroethene	U	520	79345	1,1,2,2-Tetrachloroethane	U	520
67663	Chloroform	U	520	108883	Toluene	2000	520
107062	1,2-Dichloroethane	U	520	108907	Chlorobenzene	U	520
78933	2-Butanone	8000 J	1000	100414	Ethylbenzene	2200	520
71556	1,1,1-Trichloroethane	U	520	100425	Styrene	U	520
56235	Carbon Tetrachloride	U	520	1330207	m,p-Xylene	28000	520
108054	Vinyl Acetate	U	1000	95476	o-Xylene	5000	520
75274	Bromodichloromethane	U	520	156592	cis-1,2-Dichloroethene	U	520

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	120 %	70-121	OK
Toluene-d8	99 %	81-117	OK
Bromofluorobenzene	113 %	74-121	OK

Percent solid of 96.2 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 01:27
Output File: ^C8560::D2 Injected at: 941212 00:56
Data File: >C8560::C2 Dilution Factor: 1.00000
Name: 9417652
Misc: 9548 RFWI BB-DS-01

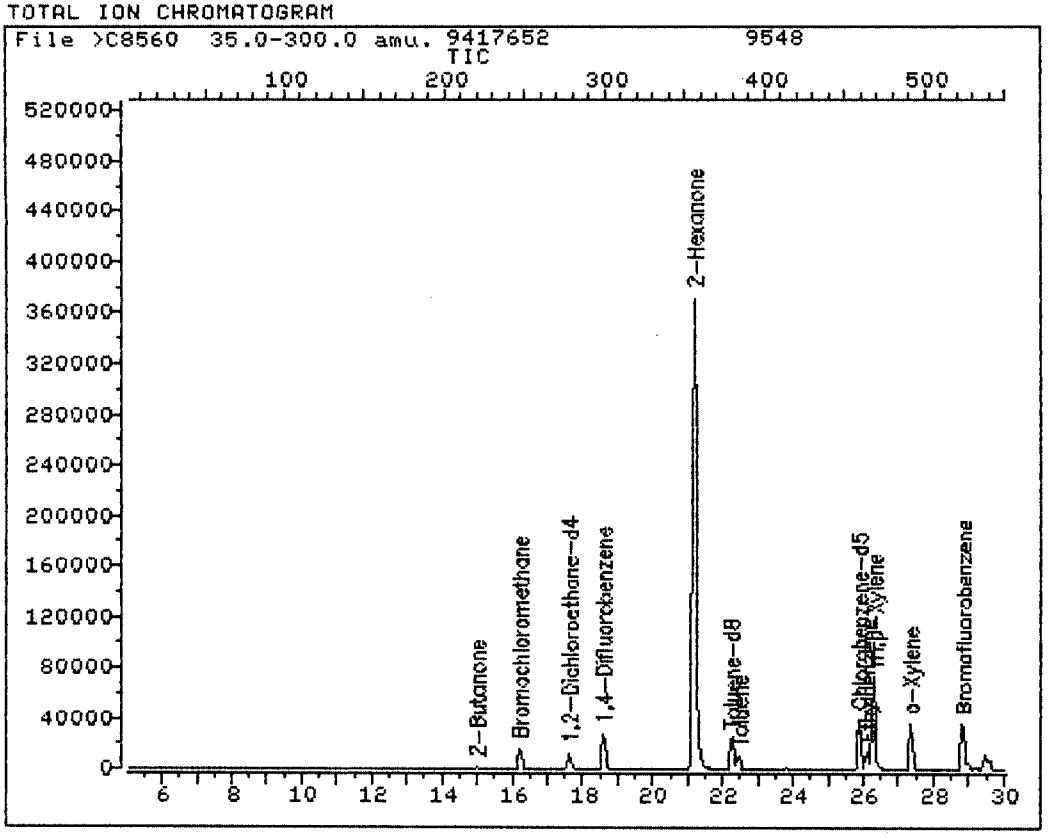
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.22	247	16448	50.00	ug/l	99
18)	1,2-Dichloroethane-d4	17.64	278	40079	59.80	ug/l	87
20)	*1,4-Difluorobenzene	18.59	299	67003	50.00	ug/l	100
21)	2-Butanone	14.99	220	10471	77.02	ug/l	80
36)	*Chlorobenzene-d5	25.89	459	48817	50.00	ug/l	100
37)	2-Hexanone	21.19	356	1069884	2684.24	ug/l	89
41)	Toluene-d8	22.24	379	59086	49.66	ug/l	95
42)	Toluene	22.47	384	23652	19.46	ug/l	89
44)	Bromofluorobenzene	28.85	524	53959M	56.70	ug/l	
45)	Ethylbenzene	26.12	464	33869M	21.20	ug/l	84
47)	m,p-Xylene	26.30	468	152925	106.61	ug/l	91
48)	o-Xylene	27.35	491	77299	48.47	ug/l	88

* Compound is ISTD

304

TOTAL ION CHROMATOGRAM



Data File: >C8560::C2 Quant Output File: ^C8560::D2
Name: 9417652
Misc: 9548 RFWI BB-DS-01

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941212 01:27
Injected at: 941212 00:56

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 17:47
Output File: ^C8578::D2 Injected at: 941212 17:16
Data File: >C8578::C2 Dilution Factor: 1.00000
Name: 9417652
Misc: 9548 RFWI BB-DS-01

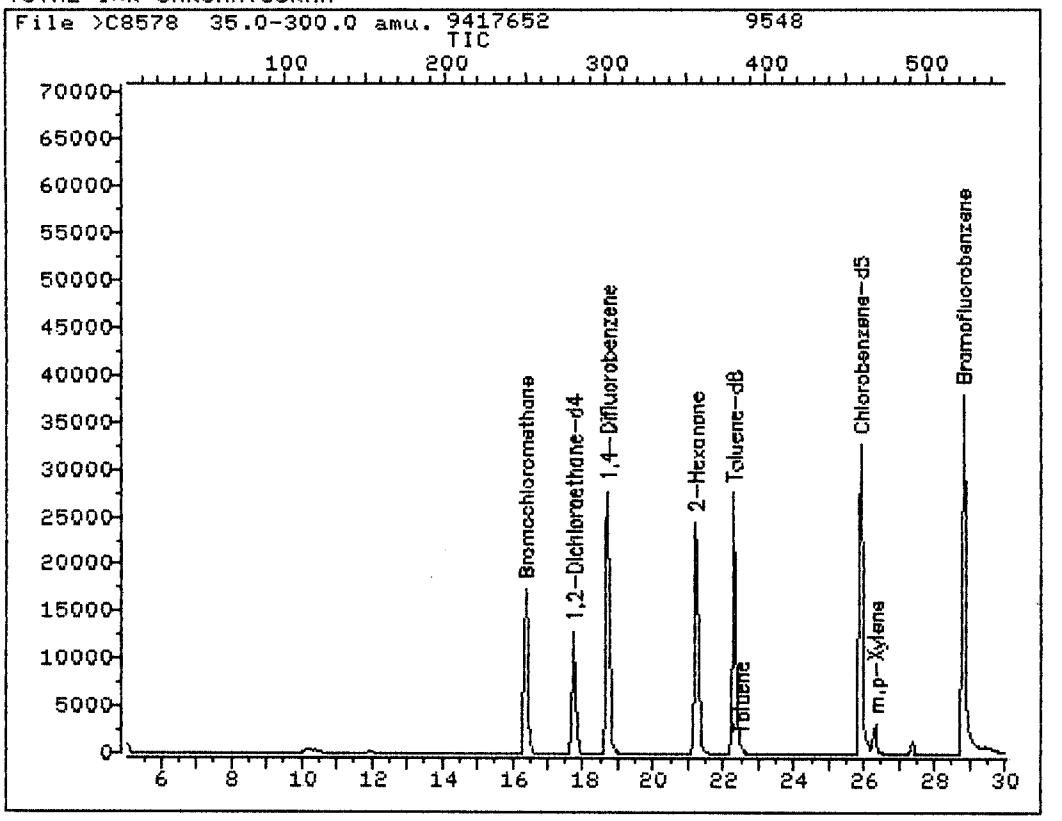
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.38	250	19924	50.00	ug/l	93
18)	1,2-Dichloroethane-d4	17.75	280	45288	52.07	ug/l	87
20)	*1,4-Difluorobenzene	18.71	301	72845	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.91	459	53270	50.00	ug/l	100
37)	2-Hexanone	21.22	356	74486	133.12	ug/l	94
41)	Toluene-d8	22.31	380	63545	49.96	ug/l	92
42)	Toluene	22.49	384	1720	1.31	ug/l	88
44)	Bromofluorobenzene	28.83	523	57167	52.72	ug/l	90
47)	m,p-Xylene	26.32	468	8264	5.39	ug/l	93

* Compound is ISTD

306

TOTAL ION CHROMATOGRAM



Data File: >C8578::C2 Quant Output File: ^C8578::D2
Name: 9417652
Misc: 9548 RFWI BB-DS-01

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 17:47
Injected at: 941212 17:16

307

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solid
SAMPLE NUMBER	9417653	DILUTION FACTOR	100
DATA FILE	>C8563	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/12/94
FIELD ID	BB-DS-02	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	5200	78875	1,2-Dichloropropane	U	520
107131	Acrylonitrile	U	5200	10061015	cis-1,3-Dichloropropene	U	520
74873	Chloromethane	U	1000	79016	Trichloroethene	U	520
74839	Bromomethane	U	1000	71432	Benzene	U	520
75014	Vinyl Chloride	U	1000	124481	Dibromochloromethane	U	520
75003	Chloroethane	U	1000	79005	1,1,2-Trichloroethane	U	520
75092	Methylene Chloride	830 ~~J~~ U	520	10061026	trans-1,3-Dichloropropene	U	520
67641	Acetone	U J	1000	110758	2-Chloroethylvinylether	U	1000
75150	Carbon Disulfide	U	520	75252	Bromoform	U	520
75694	Trichlorofluoromethane	U	1000	591786	2-Hexanone	140000	1000
75354	1,1-Dichloroethene	U	520	108101	4-Methyl-2-pentanone	U	1000
75343	1,1-Dichloroethane	U	520	127184	Tetrachloroethene	U	520
156605	trans-1,2-Dichloroethene	U	520	79345	1,1,2,2-Tetrachloroethane	U	520
67663	Chloroform	U	520	108883	Toluene	2400	520
107062	1,2-Dichloroethane	U	520	108907	Chlorobenzene	U	520
78933	2-Butanone	4700 J	1000	100414	Ethylbenzene	2400	520
71556	1,1,1-Trichloroethane	U	520	100425	Styrene	U	520
56235	Carbon Tetrachloride	U	520	1330207	m,p-Xylene	13000	520
108054	Vinyl Acetate	U	1000	95476	o-Xylene	6000	520
75274	Bromodichloromethane	U	520	156592	cis-1,2-Dichloroethene	U	520

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	115 %	70-121	OK
Toluene-d8	97 %	81-117	OK
Bromofluorobenzene	109 %	74-121	OK

Percent solid of 97.0 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

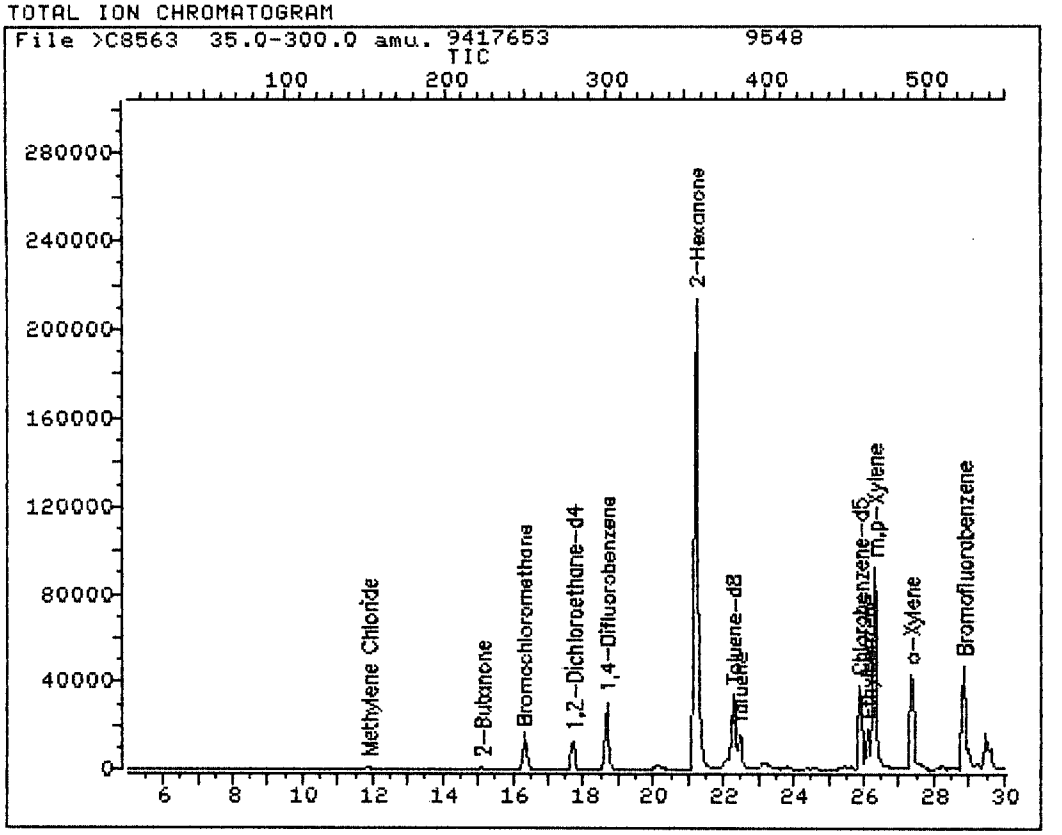
Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 03:14
Output File: ^C8563::D2 Injected at: 941212 02:43
Data File: >C8563::C2 Dilution Factor: 1.00000
Name: 9417653
Misc: 9548 RFWI BB-DS-02

ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.31	249	18719	50.00	ug/l	91
8)	Methylene Chloride	11.89	152	4984	8.06	ug/l	95
18)	1,2-Dichloroethane-d4	17.73	280	44005	57.69	ug/l	89
20)	*1,4-Difluorobenzene	18.68	301	72439	50.00	ug/l	100
21)	2-Butanone	15.13	223	6714	45.68	ug/l	77
36)	*Chlorobenzene-d5	25.89	459	55585	50.00	ug/l	100
37)	2-Hexanone	21.24	357	627602	1382.88	ug/l	90
41)	Toluene-d8	22.29	380	65373	48.25	ug/l	93
42)	Toluene	22.47	384	32831	23.72	ug/l	94
44)	Bromofluorobenzene	28.85	524	59032M	54.48	ug/l	
45)	Ethylbenzene	26.12	464	41609M	22.88	ug/l	83
47)	m,p-Xylene	26.30	468	204320	125.09	ug/l	92
48)	o-Xylene	27.35	491	105138	57.89	ug/l	90

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >C8563::C2 Quant Output File: ^C8563::D2
Name: 9417653
Misc: 9548 RFWI BB-DS-02

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941212 03:14
Injected at: 941212 02:43

309

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417654	DILUTION FACTOR	100/2500
DATA FILE	>C8564/>C8583	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/12/94
FIELD ID	BB-DS-03	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	7600	78875	1,2-Dichloropropane	U	760
107131	Acrylonitrile	U	7600	10061015	cis-1,3-Dichloropropene	U	760
74873	Chloromethane	U	1500	79016	Trichloroethene	U	760
74839	Bromomethane	U	1500	71432	Benzene	U	760
75014	Vinyl Chloride	U	1500	124481	Dibromochloromethane	U	760
75003	Chloroethane	U	1500	79005	1,1,2-Trichloroethane	U	760
75092	Methylene Chloride	U	760	10061026	trans-1,3-Dichloropropene	U	760
67641	Acetone	U	1500	110758	2-Chloroethylvinylether	U	1500
75150	Carbon Disulfide	U	760	75252	Bromoform	U	760
75694	Trichlorofluoromethane	U	1500	591786	2-Hexanone	24000	1500
75354	1,1-Dichloroethene	U	760	108101	4-Methyl-2-pentanone	U	1500
75343	1,1-Dichloroethane	U	760	127184	Tetrachloroethene	1500	760
156605	trans-1,2-Dichloroethene	U	760	79345	1,1,2,2-Tetrachloroethane	U	760
67663	Chloroform	U	760	108883	Toluene	* 53000	760
107062	1,2-Dichloroethane	U	760	108907	Chlorobenzene	450 J	760
78933	2-Butanone	U	1500	100414	Ethylbenzene	* 110000	760
71556	1,1,1-Trichloroethane	U	760	100425	Styrene	U	760
56235	Carbon Tetrachloride	U	760	1330207	m,p-Xylene	* 600000	760
108054	Vinyl Acetate	U	1500	95476	o-Xylene	* 560000	760
75274	Bromodichloromethane	U	760	156592	cis-1,2-Dichloroethene	U	760

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	105 %	70-121	OK
Toluene-d8	95 %	81-117	OK
Bromofluorobenzene	112 %	74-121	OK

Data Transferred from diluted analysis

Percent solid of 66.1 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 03:50
Output File: ^C8564::D2 Injected at: 941212 03:19
Data File: >C8564::C2 Dilution Factor: 1.00000
Name: 9417654
Misc: 9548 RFWI BB-DS-03

ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

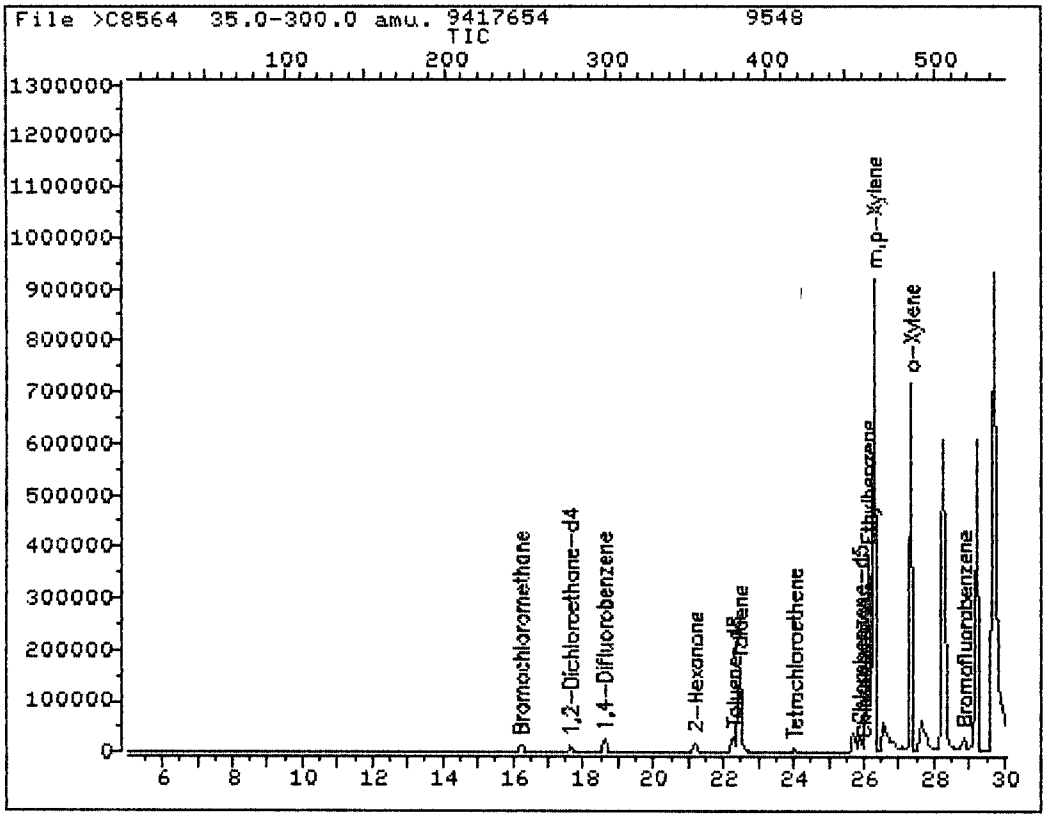
over 250

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.22	247	16134	50.00	ug/l	95
18)	1,2-Dichloroethane-d4	17.63	278	38003	57.81	ug/l	88
20)	*1,4-Difluorobenzene	18.59	299	64178	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	47690	50.00	ug/l	100
37)	2-Hexanone	21.19	356	62944	161.65	ug/l	90
39)	Tetrachloroethene	24.02	418	6576	9.61	ug/l	92
41)	Toluene-d8	22.28	380	56688	48.77	ug/l	91
42)	Toluene	22.47	384	374523	315.42	ug/l E	96
43)	Chlorobenzene	25.98	461	2717	3.00	ug/l	94
44)	Bromofluorobenzene	28.85	518	32585M	35.05	ug/l	
45)	Ethylbenzene	26.12	464	991151	635.16	ug/l E	93
47)	m,p-Xylene	26.30	468	1356973M	968.33	ug/l E	70
48)	o-Xylene	27.35	488	1198764M	769.37	ug/l E	94

* Compound is ISTD

310

TOTAL ION CHROMATOGRAM



Data File: >C8564::C2 Quant Output File: ^C8564::D2
Name: 9417654
Misc: 9548 RFWI BB-DS-03

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941212 03:50
Injected at: 941212 03:19

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 20:50
Output File: ^C8583::D2 Injected at: 941212 20:15
Data File: >C8583::C2 Dilution Factor: 1.00000
Name: 9417654
Misc: 9548 RFWI BB-DS-03

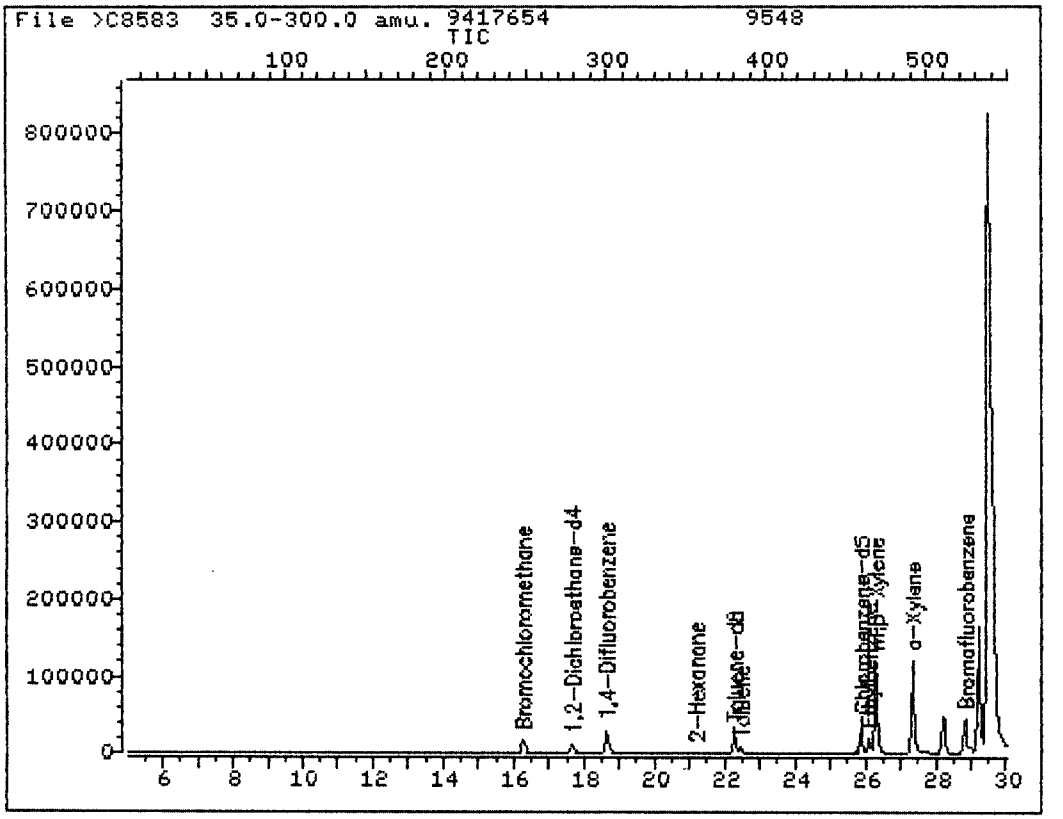
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	19983	50.00	ug/l	96
18)	1,2-Dichloroethane-d4	17.68	279	45705	52.40	ug/l	89
20)	*1,4-Difluorobenzene	18.64	300	73557	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	56644	50.00	ug/l	100
37)	2-Hexanone	21.19	356	3205	5.39	ug/l	92
41)	Toluene-d8	22.28	380	64346	47.57	ug/l	94
42)	Toluene	22.47	384	19426	13.96	ug/l	94
44)	Bromofluorobenzene	28.85	524	64498M	55.94	ug/l	92
45)	Ethylbenzene	26.11	464	53234M	29.15	ug/l	85
47)	m,p-Xylene	26.30	468	258910	158.94	ug/l	90
48)	o-Xylene	27.35	491	272298	148.65	ug/l	89

* Compound is ISTD

312

TOTAL ION CHROMATOGRAM



Data File: >C8583::C2 Quant Output File: ^C8583::D2
Name: 9417654
Misc: 9548 RFWI BB-DS-03

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 20:50
Injected at: 941212 20:15

3/3

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417655	DILUTION FACTOR	100
DATA FILE	>D7598	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-DS-04	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	6400	78875	1,2-Dichloropropane	U	640
107131	Acrylonitrile	U	6400	10061015	cis-1,3-Dichloropropene	U	640
74873	Chloromethane	U	1300	79016	Trichloroethene	U	640
74839	Bromomethane	U	1300	71432	Benzene	U	640
75014	Vinyl Chloride	U	1300	124481	Dibromochloromethane	U	640
75003	Chloroethane	U	1300	79005	1,1,2-Trichloroethane	U	640
75092	Methylene Chloride	1100 ~~B~~ U	640	10061026	trans-1,3-Dichloropropene	U	640
67641	Acetone	U	1300	110758	2-Chloroethylvinylether	U	1300
75150	Carbon Disulfide	U	640	75252	Bromoform	U	640
75694	Trichlorofluoromethane	U	1300	591786	2-Hexanone	U	1300
75354	1,1-Dichloroethene	U	640	108101	4-Methyl-2-pentanone	U	1300
75343	1,1-Dichloroethane	U	640	127184	Tetrachloroethene	U	640
156605	trans-1,2-Dichloroethene	U	640	79345	1,1,2,2-Tetrachloroethane	U	640
67663	Chloroform	U	640	108883	Toluene	U	640
107062	1,2-Dichloroethane	U	640	108907	Chlorobenzene	U	640
78933	2-Butanone	U	1300	100414	Ethylbenzene	U	640
71556	1,1,1-Trichloroethane	U	640	100425	Styrene	U	640
56235	Carbon Tetrachloride	U	640	1330207	m,p-Xylene	200 J	640
108054	Vinyl Acetate	U	1300	95476	o-Xylene	U	640
75274	Bromodichloromethane	U	640	156592	cis-1,2-Dichloroethene	U	640

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	100 %	70-121	OK
Toluene-d8	94 %	81-117	OK
Bromofluorobenzene	103 %	74-121	OK

Percent solid of 78.0 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 16:24
Output File: ^D7598::D2 Injected at: 941213 15:52
Data File: >D7598::D1 Dilution Factor: 1.00000
Name: 9417655
Misc: 9548 RFWI BB-DS-04

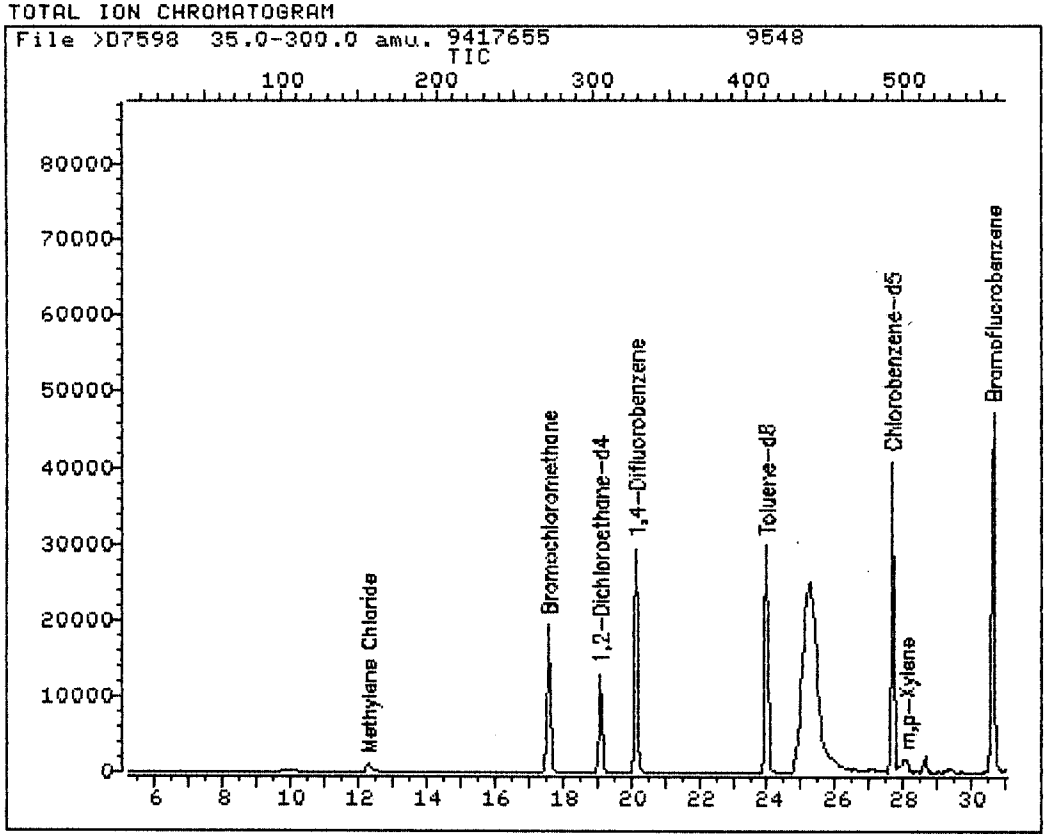
ID File: IDDA28::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941205 13:27

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	17.59	272	25102	50.00	ug/l	95
8)	Methylene Chloride	12.29	156	6115	8.95	ug/l	92
18)	1,2-Dichloroethane-d4	19.10	305	33449	50.23	ug/l	98
20)	*1,4-Difluorobenzene	20.15	328	81774	50.00	ug/l	100
36)	*Chlorobenzene-d5	27.68	493	64309	50.00	ug/l	100
41)	Toluene-d8	23.98	412	67233	47.10	ug/l	94
44)	Bromofluorobenzene	30.65	558	64103	51.63	ug/l	78
47)	m,p-Xylene	28.09	502	2585	1.56	ug/l	80

* Compound is ISTD

314

TOTAL ION CHROMATOGRAM



Data File: >D7598::D1 Quant Output File: ^D7598::D2
Name: 9417655
Misc: 9548 RFWI BB-DS-04

Id File: IDDA28::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941205 13:27

Operator ID: LARRY
Quant Time: 941213 16:24
Injected at: 941213 15:52

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417656	DILUTION FACTOR	100/50000
DATA FILE	>C8566/>C8581	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/12/94
FIELD ID	BB-DS-05	ANALYZED BY	LARRY

PPM

CAS #	COMPOUND	MG/KG		MDL
107028	Acrolein	U	J	13
107131	Acrylonitrile	U		13
74873	Chloromethane	U		2.6
74839	Bromomethane	U		2.6
75014	Vinyl Chloride	U		2.6
75003	Chloroethane	U		2.6
75092	Methylene Chloride	68 B U		1.3
67641	Acetone	U		2.6
75150	Carbon Disulfide	U		1.3
75694	Trichlorofluoromethane	U		2.6
75354	1,1-Dichloroethene	U		1.3
75343	1,1-Dichloroethane	U		1.3
156605	trans-1,2-Dichloroethene	U		1.3
67663	Chloroform	U		1.3
107062	1,2-Dichloroethane	U		1.3
78933	2-Butanone	* 11000		2.6
71556	1,1,1-Trichloroethane	U		1.3
56235	Carbon Tetrachloride	U		1.3
108054	Vinyl Acetate	U		2.6
75274	Bromodichloromethane	U	J	1.3

CAS #	COMPOUND	MG/KG		MDL
78875	1,2-Dichloropropane	U	J	1.3
10061015	cis-1,3-Dichloropropene	U		1.3
79016	Trichloroethene	U		1.3
71432	Benzene	U		1.3
124481	Dibromochloromethane	U		1.3
79005	1,1,2-Trichloroethane	U		1.3
10061026	trans-1,3-Dichloropropene	U		1.3
110758	2-Chloroethylvinylether	U		2.6
75252	Bromoform	U		1.3
591786	2-Hexanone	U		2.6
108101	4-Methyl-2-pentanone	U		2.6
127184	Tetrachloroethene	U		1.3
79345	1,1,2,2-Tetrachloroethane	U		1.3
108883	Toluene	.66 J		1.3
108907	Chlorobenzene	U		1.3
100414	Ethylbenzene	6.6		1.3
100425	Styrene	9.0		1.3
1330207	m,p-Xylene	42		1.3
95476	o-Xylene	14		1.3
156592	cis-1,2-Dichloroethene	U	J	1.3

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	108 %	70-121	OK
Toluene-d8	92 %	81-117	OK
Bromofluorobenzene	100 %	74-121	OK

Percent solid of 38.5 is used for all target compounds.

* value Transferred from diluted Analysis

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 05:01
Output File: ^C8566::D2 Injected at: 941212 04:30
Data File: >C8566::C2 Dilution Factor: 1.00000
Name: 9417656
Misc: 9548 RFWI BB-DS-05

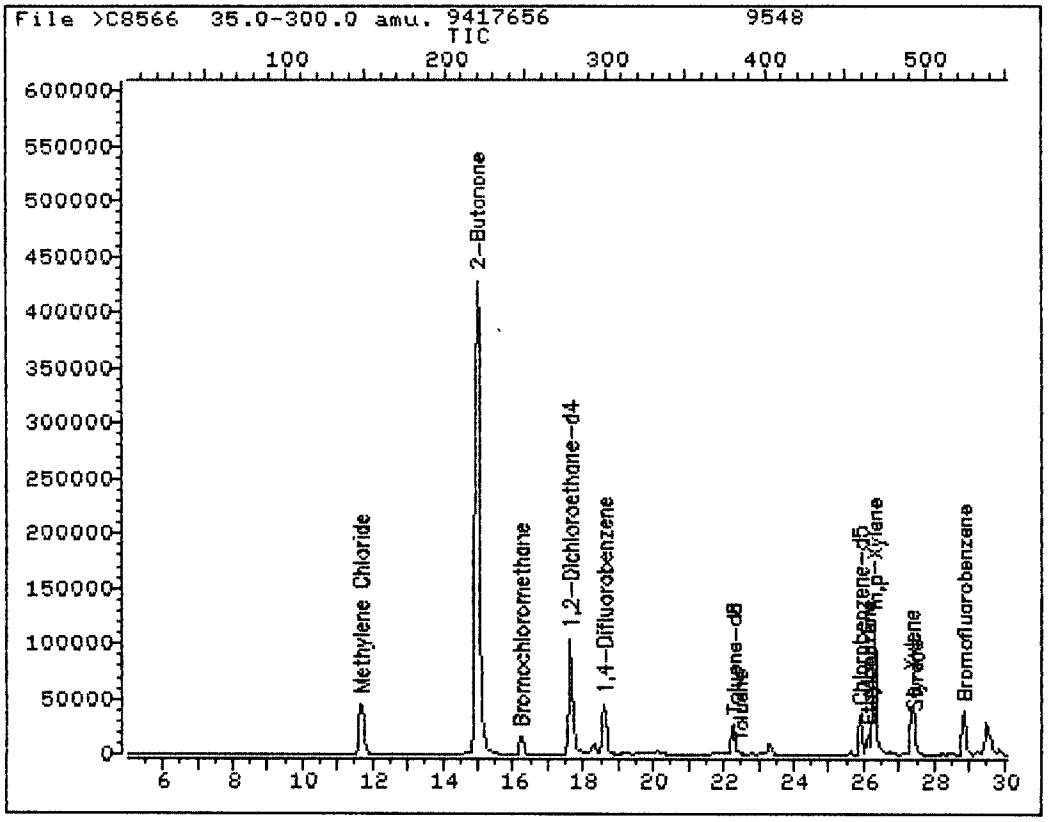
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.22	247	17616	50.00	ug/l	94
8)	Methylene Chloride	11.66	147	153371	263.71	ug/l	97
18)	1,2-Dichloroethane-d4	17.63	278	38877	54.16	ug/l	89
20)	*1,4-Difluorobenzene	18.59	299	67345	50.00	ug/l	100
21)	2-Butanone	14.99	220	2600052	19027.59	ug/l	92
36)	*Chlorobenzene-d5	25.89	459	53803	50.00	ug/l	100
41)	Toluene-d8	22.29	380	60253	45.95	ug/l	92
42)	Toluene	22.47	384	3396	2.54	ug/l	89
44)	Bromofluorobenzene	28.85	524	52550M	50.11	ug/l	
45)	Ethylbenzene	26.12	464	44940M	25.53	ug/l	84
46)	Styrene	27.44	493	32329	34.62	ug/l	92
47)	m,p-Xylene	26.30	468	258590	163.56	ug/l	91
48)	o-Xylene	27.35	491	96134	54.69	ug/l	90

* Compound is ISTD

316

TOTAL ION CHROMATOGRAM



Data File: >C8566::C2 Quant Output File: ^C8566::D2
Name: 9417656
Misc: 9548 RFWI BB-DS-05

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941212 05:01
Injected at: 941212 04:30

317

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 19:35
Output File: ^C8581::D2 Injected at: 941212 19:04
Data File: >C8581::C2 Dilution Factor: 1.00000
Name: 9417656
Misc: 9548 RFWI BB-DS-05

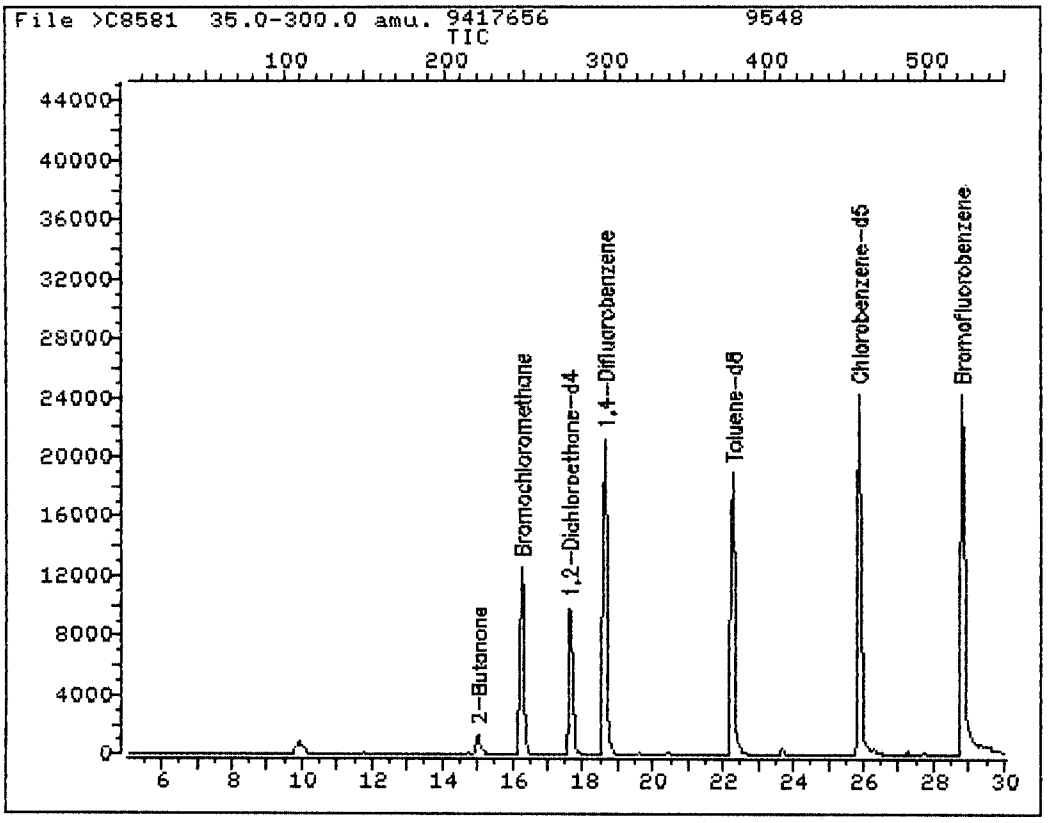
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	14530	50.00	ug/l	96
18)	1,2-Dichloroethane-d4	17.64	278	34554	54.48	ug/l	89
20)	*1,4-Difluorobenzene	18.64	300	54372	50.00	ug/l	100
21)	2-Butanone	15.04	221	10549	87.19	ug/l	84
36)	*Chlorobenzene-d5	25.89	459	40055	50.00	ug/l	100
41)	Toluene-d8	22.29	380	46755	48.89	ug/l	93
44)	Bromofluorobenzene	28.81	523	38945	47.77	ug/l	81

* Compound is ISTD

318

TOTAL ION CHROMATOGRAM



Data File: >C8581::C2 Quant Output File: ^C8581::D2
Name: 9417656
Misc: 9548 RFWI BB-DS-05

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 19:35
Injected at: 941212 19:04

319

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417657	DILUTION FACTOR	500000
DATA FILE	>CB584	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/12/94
FIELD ID	BB-DS-06	ANALYZED BY	LARRY

PFM

CAS #	COMPOUND	MG/KG	MDL	CAS #	COMPOUND	MG/KG	MDL
107028	Acrolein	U J	50000	78875	1,2-Dichloropropane	U J	5000
107131	Acrylonitrile	U	50000	10061015	cis-1,3-Dichloropropene	U	5000
74873	Chloromethane	U	10000	79016	Trichloroethene	U	5000
74839	Bromomethane	U	10000	71432	Benzene	U	5000
75014	Vinyl Chloride	U	10000	124481	Dibromochloromethane	U	5000
75003	Chloroethane	U	10000	79005	1,1,2-Trichloroethane	U	5000
75092	Methylene Chloride	U	5000	10061026	trans-1,3-Dichloropropene	U	5000
67641	Acetone	U	10000	110758	2-Chloroethylvinylether	U	10000
75150	Carbon Disulfide	U	5000	75252	Bromoform	U	5000
75694	Trichlorofluoromethane	U	10000	591786	2-Hexanone	14000	10000
75354	1,1-Dichloroethene	U	5000	108101	4-Methyl-2-pentanone	U	10000
75343	1,1-Dichloroethane	U	5000	127184	Tetrachloroethene	U	5000
156605	trans-1,2-Dichloroethene	U	5000	79345	1,1,2,2-Tetrachloroethane	U	5000
67663	Chloroform	U	5000	108883	Toluene	79000	5000
107062	1,2-Dichloroethane	U	5000	108907	Chlorobenzene	U	5000
78933	2-Butanone	U	10000	100414	Ethylbenzene	4100	5000
71556	1,1,1-Trichloroethane	U	5000	100425	Styrene	U	5000
56235	Carbon Tetrachloride	U	5000	1330207	m,p-Xylene	15000	5000
108054	Vinyl Acetate	U	10000	95476	o-Xylene	7700	5000
75274	Bromodichloromethane	U J	5000	156592	cis-1,2-Dichloroethene	U J	5000

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	104 %	70-121	OK
Toluene-d8	96 %	81-117	OK
Bromofluorobenzene	102 %	74-121	OK

Percent solid of 49.7 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

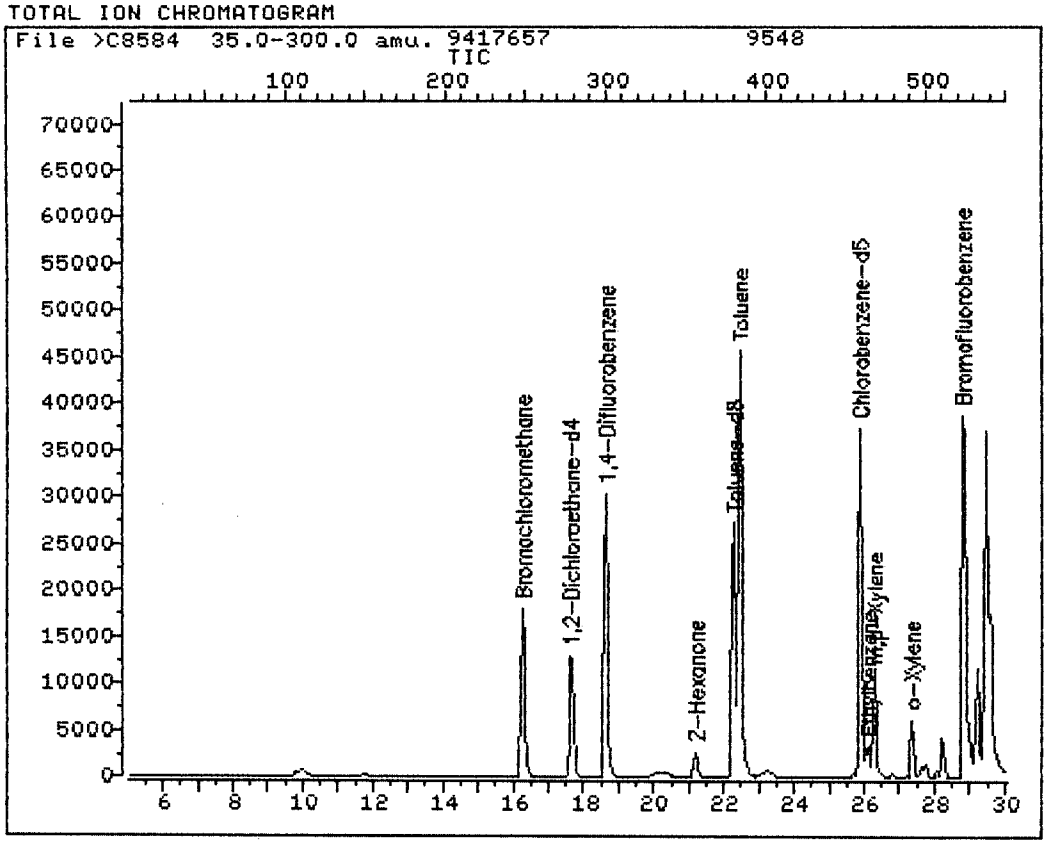
Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 21:26
Output File: ^C8584::D2 Injected at: 941212 20:55
Data File: >C8584::C2 Dilution Factor: 1.00000
Name: 9417657
Misc: 9548 RFWI BB-DS-06

ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	20202	50.00	ug/l	96
18)	1,2-Dichloroethane-d4	17.64	278	46025	52.19	ug/l	88
20)	*1,4-Difluorobenzene	18.64	300	75631	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	57851	50.00	ug/l	100
37)	2-Hexanone	21.19	356	8477	13.95	ug/l	93
41)	Toluene-d8	22.29	380	66227	47.94	ug/l	93
42)	Toluene	22.47	384	110959	78.09	ug/l	93
44)	Bromofluorobenzene	28.81	523	60165M	51.10	ug/l	
45)	Ethylbenzene	26.12	464	7609M	4.08	ug/l	83
47)	m,p-Xylene	26.30	468	24370	14.65	ug/l	92
48)	o-Xylene	27.35	491	14309	7.65	ug/l	91

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >C8584::C2 Quant Output File: ^C8584::D2
Name: 9417657
Misc: 9548 RFWI BB-DS-06

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 21:26
Injected at: 941212 20:55

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solid
SAMPLE NUMBER	9417658	DILUTION FACTOR	1000
DATA FILE	>C8585	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/12/94
FIELD ID	BB-DS-07	ANALYZED BY	LARRY

ppm

CAS #	COMPOUND	MG/KG	MDL	CAS #	COMPOUND	MG/KG	MDL
107028	Acrolein	U	51	78875	1,2-Dichloropropane	U	5.1
107131	Acrylonitrile	U	51	10061015	cis-1,3-Dichloropropene	U	5.1
74873	Chloromethane	U	10	79016	Trichloroethene	U	5.1
74839	Bromomethane	U	10	71432	Benzene	1.2 J	5.1
75014	Vinyl Chloride	U	10	124481	Dibromochloromethane	U	5.1
75003	Chloroethane	U	10	79005	1,1,2-Trichloroethane	U	5.1
75092	Methylene Chloride	U	5.1	10061026	trans-1,3-Dichloropropene	U	5.1
67641	Acetone	U	10	110758	2-Chloroethylvinylether	U	10
75150	Carbon Disulfide	U	5.1	75252	Bromoform	U	5.1
75694	Trichlorofluoromethane	U	10	591786	2-Hexanone	19	10
75354	1,1-Dichloroethene	U	5.1	108101	4-Methyl-2-pentanone	U	10
75343	1,1-Dichloroethane	U	5.1	127184	Tetrachloroethene	U	5.1
156605	trans-1,2-Dichloroethene	U	5.1	79345	1,1,2,2-Tetrachloroethane	U	5.1
67663	Chloroform	U	5.1	108883	Toluene	5.9	5.1
107062	1,2-Dichloroethane	U	5.1	108907	Chlorobenzene	U	5.1
78933	2-Butanone	U	10	100414	Ethylbenzene	U	5.1
71556	1,1,1-Trichloroethane	U	5.1	100425	Styrene	U	5.1
56235	Carbon Tetrachloride	U	5.1	1330207	m,p-Xylene	4.1 J	5.1
108054	Vinyl Acetate	U	10	95476	o-Xylene	U	5.1
75274	Bromodichloromethane	U	5.1	156592	cis-1,2-Dichloroethene	U	5.1

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	105 %	70-121	OK
Toluene-d8	100 %	81-117	OK
Bromofluorobenzene	106 %	74-121	OK

Percent solid of 97.2 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 22:02
Output File: ^C8585::D2 Injected at: 941212 21:31
Data File: >C8585::C2 Dilution Factor: 1.00000
Name: 9417658
Misc: 9548 RFWI BB-DS-07

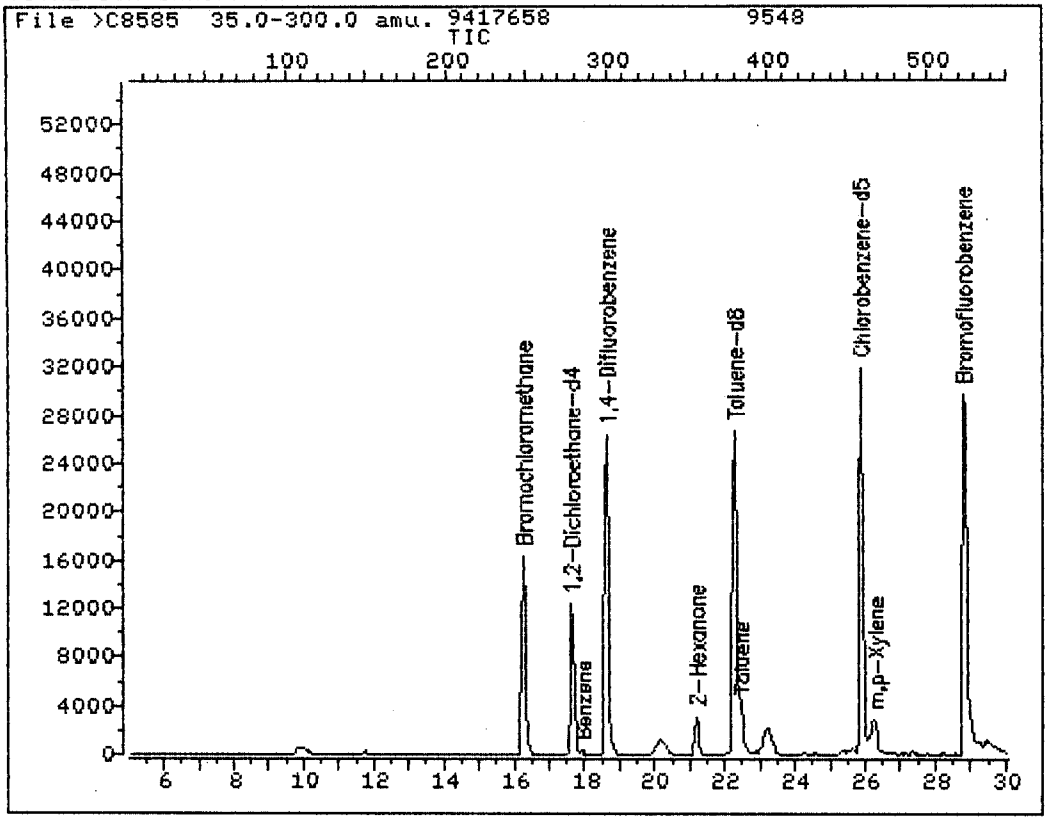
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	18451	50.00	ug/l	95
18)	1,2-Dichloroethane-d4	17.64	278	42319	52.54	ug/l	89
20)	*1,4-Difluorobenzene	18.64	300	68668	50.00	ug/l	100
30)	Benzene	17.95	285	1217	1.15	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	50048	50.00	ug/l	100
37)	2-Hexanone	21.19	356	9830	18.70	ug/l	98
41)	Toluene-d8	22.29	380	59469	49.76	ug/l	91
42)	Toluene	22.47	384	7039	5.73	ug/l	79
44)	Bromofluorobenzene	28.81	523	54206	53.21	ug/l	77
47)	m,p-Xylene	26.30	468	5770	4.01	ug/l	74

* Compound is ISTD

322

TOTAL ION CHROMATOGRAM



Data File: >C8585::C2 Quant Output File: ^C8585::D2
Name: 9417658
Misc: 9548 RFWI BB-DS-07

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 22:02
Injected at: 941212 21:31

323

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417659	DILUTION FACTOR	1000
DATA FILE	>C8586	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/12/94
FIELD ID	BB-DL-01	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/Kg	MDL	CAS #	COMPOUND	UG/Kg	MDL
107028	Acrolein	U	50000	78875	1,2-Dichloropropane	U	5000
107131	Acrylonitrile	U	50000	10061015	cis-1,3-Dichloropropene	U	5000
74873	Chloromethane	U	10000	79016	Trichloroethene	U	5000
74839	Bromomethane	U	10000	71432	Benzene	U	5000
75014	Vinyl Chloride	U	10000	124481	Dibromochloromethane	U	5000
75003	Chloroethane	U	10000	79005	1,1,2-Trichloroethane	U	5000
75092	Methylene Chloride	2300 BU J	5000	10061026	trans-1,3-Dichloropropene	U	5000
67641	Acetone	U J	10000	110758	2-Chloroethylvinylether	U	10000
75150	Carbon Disulfide	U	5000	75252	Bromoform	U	5000
75694	Trichlorofluoromethane	U	10000	591786	2-Hexanone	20000	10000
75354	1,1-Dichloroethene	U	5000	108101	4-Methyl-2-pentanone	U	10000
75343	1,1-Dichloroethane	U	5000	127184	Tetrachloroethene	U	5000
156605	trans-1,2-Dichloroethene	U	5000	79345	1,1,2,2-Tetrachloroethane	U	5000
67663	Chloroform	U	5000	108883	Toluene	U	5000
107062	1,2-Dichloroethane	U	5000	108907	Chlorobenzene	U	5000
78933	2-Butanone	U	10000	100414	Ethylbenzene	U	5000
71556	1,1,1-Trichloroethane	U	5000	100425	Styrene	U	5000
56235	Carbon Tetrachloride	U	5000	1330207	m,p-Xylene	U	5000
108054	Vinyl Acetate	U	10000	95476	o-Xylene	U	5000
75274	Bromodichloromethane	U	5000	156592	cis-1,2-Dichloroethene	U	5000

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	107 %	76-114	OK
Toluene-d8	96 %	88-110	OK
Bromofluorobenzene	108 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 22:37
Output File: ^C8586::D2 Injected at: 941212 22:07
Data File: >C8586::C2 Dilution Factor: 1.00000
Name: 9417659
Misc: 9548 RFWI BB-DL-01

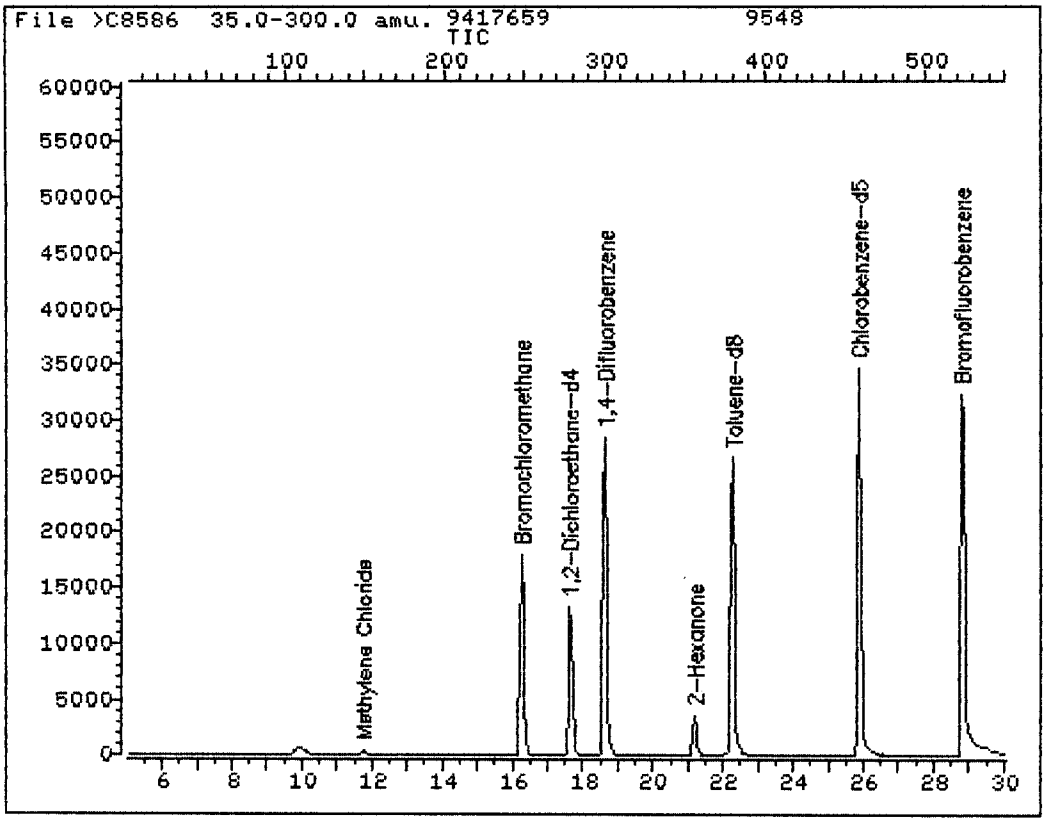
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	19778	50.00	ug/l	95
8)	Methylene Chloride	11.76	149	1375	2.30	ug/l	92
18)	1,2-Dichloroethane-d4	17.64	278	46169	53.48	ug/l	90
20)	*1,4-Difluorobenzene	18.64	300	73026	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	55637	50.00	ug/l	100
37)	2-Hexanone	21.19	356	11590	19.83	ug/l	91
41)	Toluene-d8	22.29	380	64039	48.20	ug/l	91
44)	Bromofluorobenzene	28.80	523	60913	53.79	ug/l	79

* Compound is ISTD

324

TOTAL ION CHROMATOGRAM



Data File: >C8586::C2 Quant Output File: ^C8586::D2
Name: 9417659
Misc: 9548 RFWI BB-DL-01

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 22:37
Injected at: 941212 22:07

325

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417660	DILUTION FACTOR	100/1000
DATA FILE	>C8604/>C8587	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-DL-02	ANALYZED BY	LARRY

See comments

CAS #	COMPOUND	UG/Kg	MDL	CAS #	COMPOUND	UG/Kg	MDL
107028	Acrolein	U	5000	78875	1,2-Dichloropropane	U	500
107131	Acrylonitrile	U	5000	10061015	cis-1,3-Dichloropropene	U	500
74873	Chloromethane	U	1000	79016	Trichloroethene	U	500
74839	Bromomethane	U	1000	71432	Benzene	U	500
75014	Vinyl Chloride	U	1000	124481	Dibromochloromethane	U	500
75003	Chloroethane	U	1000	79005	1,1,2-Trichloroethane	U	500
75092	Methylene Chloride	1200 ~~B~~ U	500	10061026	trans-1,3-Dichloropropene	U	500
67641	Acetone	U	1000	110758	2-Chloroethylvinylether	U	1000
75150	Carbon Disulfide	U	500	75252	Bromoform	U	500
75694	Trichlorofluoromethane	U	1000	591786	2-Hexanone	U	1000
75354	1,1-Dichloroethene	U	500	108101	4-Methyl-2-pentanone	U	1000
75343	1,1-Dichloroethane	U	500	127184	Tetrachloroethene	U	500
156605	trans-1,2-Dichloroethene	U	500	79345	1,1,2,2-Tetrachloroethane	U	500
67663	Chloroform	U	500	108883	Toluene	U	500
107062	1,2-Dichloroethane	U	500	108907	Chlorobenzene	U	500
78933	2-Butanone	U	1000	100414	Ethylbenzene	U	500
71556	1,1,1-Trichloroethane	U	500	100425	Styrene	U	500
56235	Carbon Tetrachloride	U	500	1330207	m,p-Xylene	U	500
108054	Vinyl Acetate	U	1000	95476	o-Xylene	U	500
75274	Bromodichloromethane	U	500	156592	cis-1,2-Dichloroethene	U	500

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	107 %	76-114	OK
Toluene-d8	97 %	88-110	OK
Bromofluorobenzene	90 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 23:13
Output File: ^C8587::D2 Injected at: 941212 22:42
Data File: >C8587::C2 Dilution Factor: 1.00000
Name: 9417660
Misc: 9548 RFWI BB-DL-02

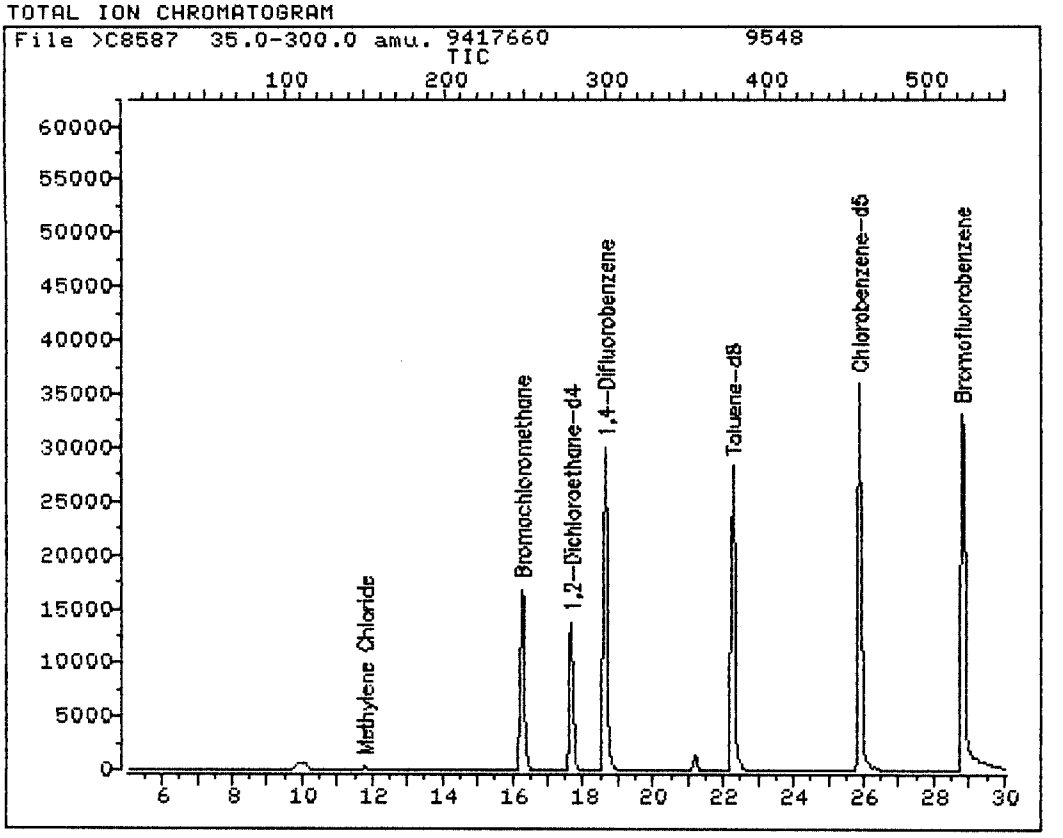
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	20351	50.00	ug/l	96
8)	Methylene Chloride	11.80	150	1545	2.52	ug/l	98
18)	1,2-Dichloroethane-d4	17.68	279	47370	53.32	ug/l	86
20)	*1,4-Difluorobenzene	18.64	300	74757	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	56210	50.00	ug/l	100
41)	Toluene-d8	22.29	380	65430	48.75	ug/l	93
44)	Bromofluorobenzene	28.80	523	51408M	44.93	ug/l	

* Compound is ISTD

326

TOTAL ION CHROMATOGRAM



Data File: >C8587::C2 Quant Output File: ^C8587::D2
Name: 9417660
Misc: 9548 RFWI BB-DL-02

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 23:13
Injected at: 941212 22:42

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 14:52
Output File: ^C8604::D2 Injected at: 941213 14:21
Data File: >C8604::C2 Dilution Factor: 1.00000
Name: 9417660
Misc: 9548 RFWI BB-DL-02

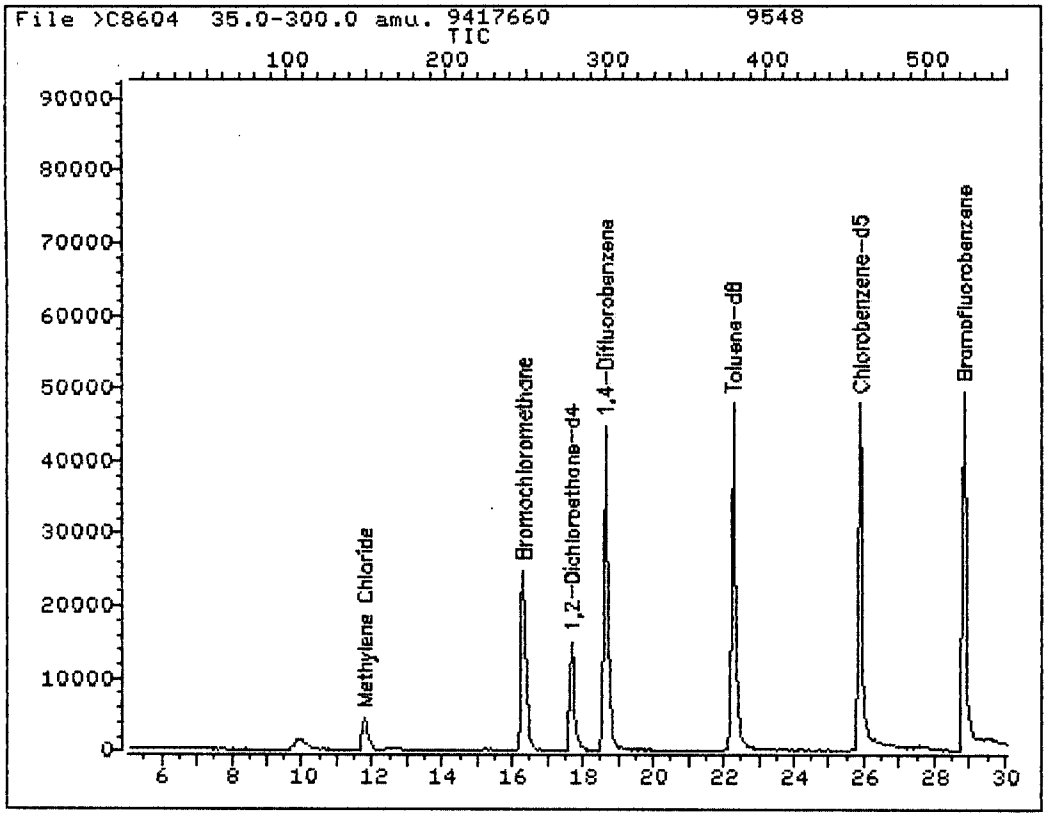
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.30	248	41834	50.00	ug/l	96
8)	Methylene Chloride	11.79	149	16282	11.79	ug/l	93
18)	1,2-Dichloroethane-d4	17.67	278	48141	28.24	ug/l	95
20)	*1,4-Difluorobenzene	18.63	299	165834	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.88	458	117891	50.00	ug/l	100
41)	Toluene-d8	22.28	379	139547	48.57	ug/l	98
44)	Bromofluorobenzene	28.84	523	71774M	31.23	ug/l	

* Compound is ISTD

328

TOTAL ION CHROMATOGRAM



Data File: >C8604::C2 Quant Output File: ^C8604::D2
Name: 9417660
Misc: 9548 RFWI BB-DL-02

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941213 14:52
Injected at: 941213 14:21

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417661	DILUTION FACTOR	100/1000
DATA FILE	>C8608/>C8588	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-DL-03	ANALYZED BY	LARRY

see comment

CAS #	COMPOUND	UG/Kg	MDL	CAS #	COMPOUND	UG/Kg	MDL
107028	Acrolein	U	5000	78875	1,2-Dichloropropane	U	500
107131	Acrylonitrile	U	5000	10061015	cis-1,3-Dichloropropene	U	500
74873	Chloromethane	U	1000	79016	Trichloroethene	U	500
74839	Bromomethane	U	1000	71432	Benzene	U	500
75014	Vinyl Chloride	U	1000	124481	Dibromochloromethane	U	500
75003	Chloroethane	U	1000	79005	1,1,2-Trichloroethane	U	500
75092	Methylene Chloride	650 ~~B~~ U	500	10061026	trans-1,3-Dichloropropene	U	500
67641	Acetone	U	1000	110758	2-Chloroethylvinylether	U	1000
75150	Carbon Disulfide	U	500	75252	Bromoform	U	500
75694	Trichlorofluoromethane	U	1000	591786	2-Hexanone	U	1000
75354	1,1-Dichloroethene	U	500	108101	4-Methyl-2-pentanone	U	1000
75343	1,1-Dichloroethane	U	500	127184	Tetrachloroethene	U	500
156605	trans-1,2-Dichloroethene	U	500	79345	1,1,2,2-Tetrachloroethane	U	500
67663	Chloroform	U	500	108883	Toluene	U	500
107062	1,2-Dichloroethane	U	500	108907	Chlorobenzene	U	500
78933	2-Butanone	U	1000	100414	Ethylbenzene	U	500
71556	1,1,1-Trichloroethane	U	500	100425	Styrene	U	500
56235	Carbon Tetrachloride	U	500	1330207	m,p-Xylene	U	500
108054	Vinyl Acetate	U	1000	95476	o-Xylene	U	500
75274	Bromodichloromethane	U	500	156592	cis-1,2-Dichloroethene	U	500

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	107 %	76-114	OK
Toluene-d8	96 %	88-110	OK
Bromofluorobenzene	108 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 23:49
Output File: ^C8588::D2 Injected at: 941212 23:18
Data File: >C8588::C2 Dilution Factor: 1.00000
Name: 9417661
Misc: 9548 RFWI BB-DL-03

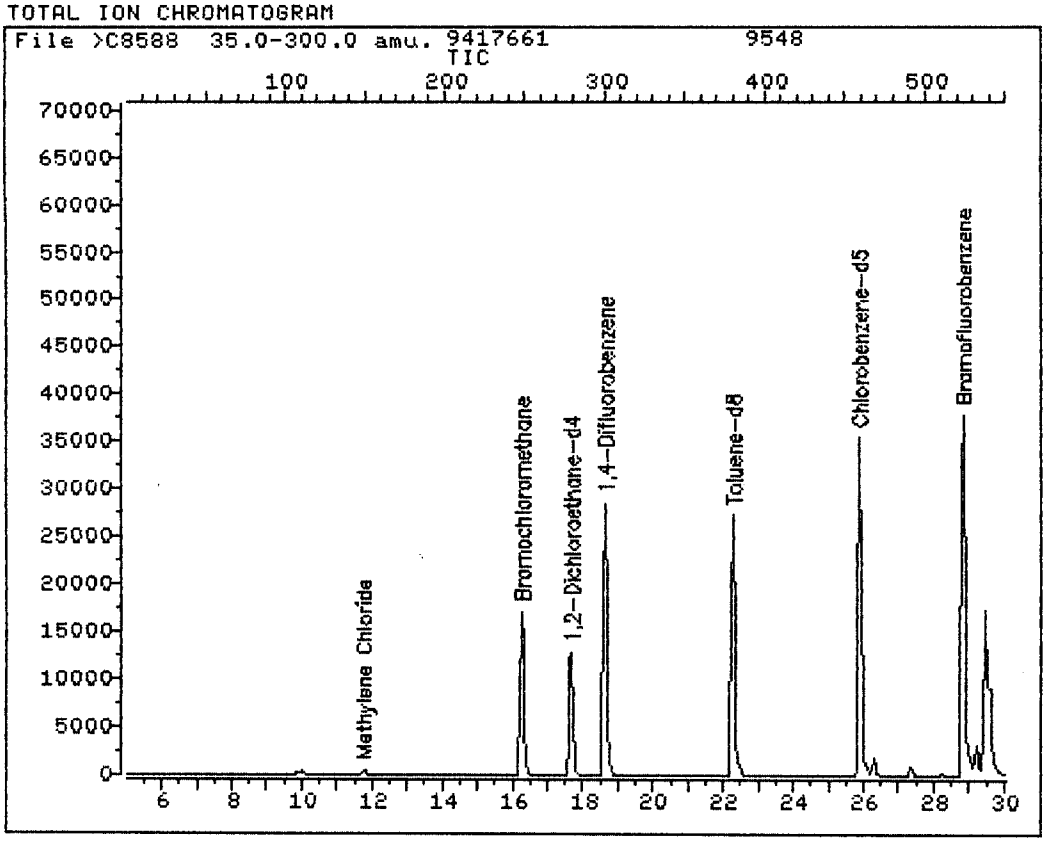
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	19169	50.00	ug/l	94
8)	Methylene Chloride	11.76	149	2010	3.48	ug/l	93
18)	1,2-Dichloroethane-d4	17.68	279	44862	53.61	ug/l	87
20)	*1,4-Difluorobenzene	18.64	300	70973	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	54144	50.00	ug/l	100
41)	Toluene-d8	22.29	380	62253	48.15	ug/l	94
44)	Bromofluorobenzene	28.85	524	59741	54.21	ug/l	95

* Compound is ISTD

330

TOTAL ION CHROMATOGRAM



Data File: >C8588::C2 Quant Output File: ^C8588::D2
Name: 9417661
Misc: 9548 RFWI BB-DL-03

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 23:49
Injected at: 941212 23:18

331

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 17:26
Output File: ^C8608::D2 Injected at: 941213 16:54
Data File: >C8608::C2 Dilution Factor: 1.00000
Name: 9417661
Misc: 9548 RFWI BB-DL-03

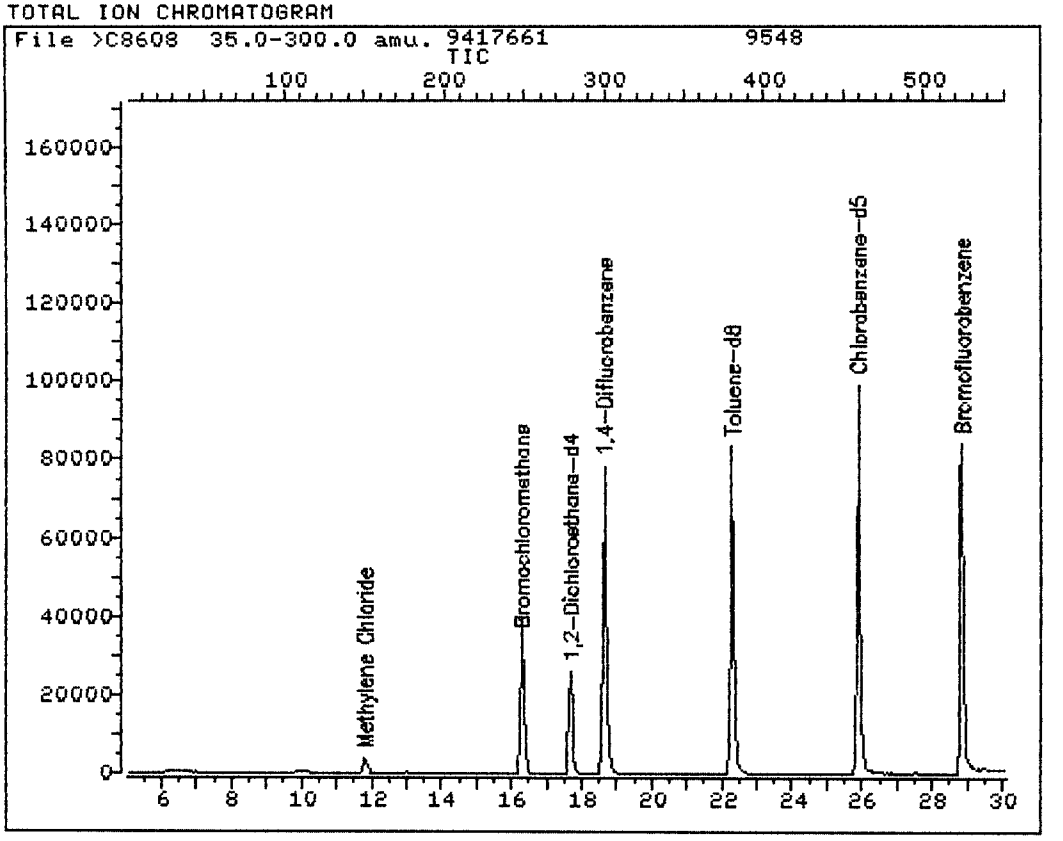
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	55847	50.00	ug/l	95
8)	Methylene Chloride	11.80	150	11991	6.50	ug/l	91
18)	1,2-Dichloroethane-d4	17.69	279	66166	29.08	ug/l	93
20)	*1,4-Difluorobenzene	18.64	300	250523	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	194550	50.00	ug/l	100
41)	Toluene-d8	22.29	380	212196	44.75	ug/l	97
44)	Bromofluorobenzene	28.86	524	137661M	36.30	ug/l	

* Compound is ISTD

332

TOTAL ION CHROMATOGRAM



Data File: >C8608::C2 Quant Output File: ^C8608::D2
Name: 9417661
Misc: 9548 RFWI BB-DL-03

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941213 17:26
Injected at: 941213 16:54

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417662	DILUTION FACTOR	100/1000
DATA FILE	>C8606/>C8589	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-DL-04	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/Kg	MDL
107028	Acrolein	U	5000
107131	Acrylonitrile	U	5000
74873	Chloromethane	U	1000
74839	Bromomethane	U	1000
75014	Vinyl Chloride	U	1000
75003	Chloroethane	U	1000
75092	Methylene Chloride	1200 ~~B~~U	500
67641	Acetone	U J	1000
75150	Carbon Disulfide	U	500
75694	Trichlorofluoromethane	U	1000
75354	1,1-Dichloroethene	U	500
75343	1,1-Dichloroethane	U	500
156605	trans-1,2-Dichloroethene	U	500
67663	Chloroform	U	500
107062	1,2-Dichloroethane	U	500
78933	2-Butanone	U	1000
71556	1,1,1-Trichloroethane	U	500
56235	Carbon Tetrachloride	U	500
108054	Vinyl Acetate	U	1000
75274	Bromodichloromethane	U	500

CAS #	COMPOUND	UG/Kg	MDL
78875	1,2-Dichloropropane	U	500
10061015	cis-1,3-Dichloropropene	U	500
79016	Trichloroethene	U	500
71432	Benzene	U	500
124481	Dibromochloromethane	U	500
79005	1,1,2-Trichloroethane	U	500
10061026	trans-1,3-Dichloropropene	U	500
110758	2-Chloroethylvinylether	U	1000
75252	Bromoform	U	500
591786	2-Hexanone	290 J	1000
108101	4-Methyl-2-pentanone	U	1000
127184	Tetrachloroethene	U	500
79345	1,1,2,2-Tetrachloroethane	U	500
108883	Toluene	U	500
108907	Chlorobenzene	U	500
100414	Ethylbenzene	U	500
100425	Styrene	U	500
1330207	m,p-Xylene	U	500
95476	o-Xylene	U	500
156592	cis-1,2-Dichloroethene	U	500

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	108 %	76-114	OK
Toluene-d8	95 %	88-110	OK
Bromofluorobenzene	91 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 00:25
Output File: ^C8589::D2 Injected at: 941212 23:54
Data File: >C8589::C2 Dilution Factor: 1.00000
Name: 9417662
Misc: 9548 RFWI BB-DL-04

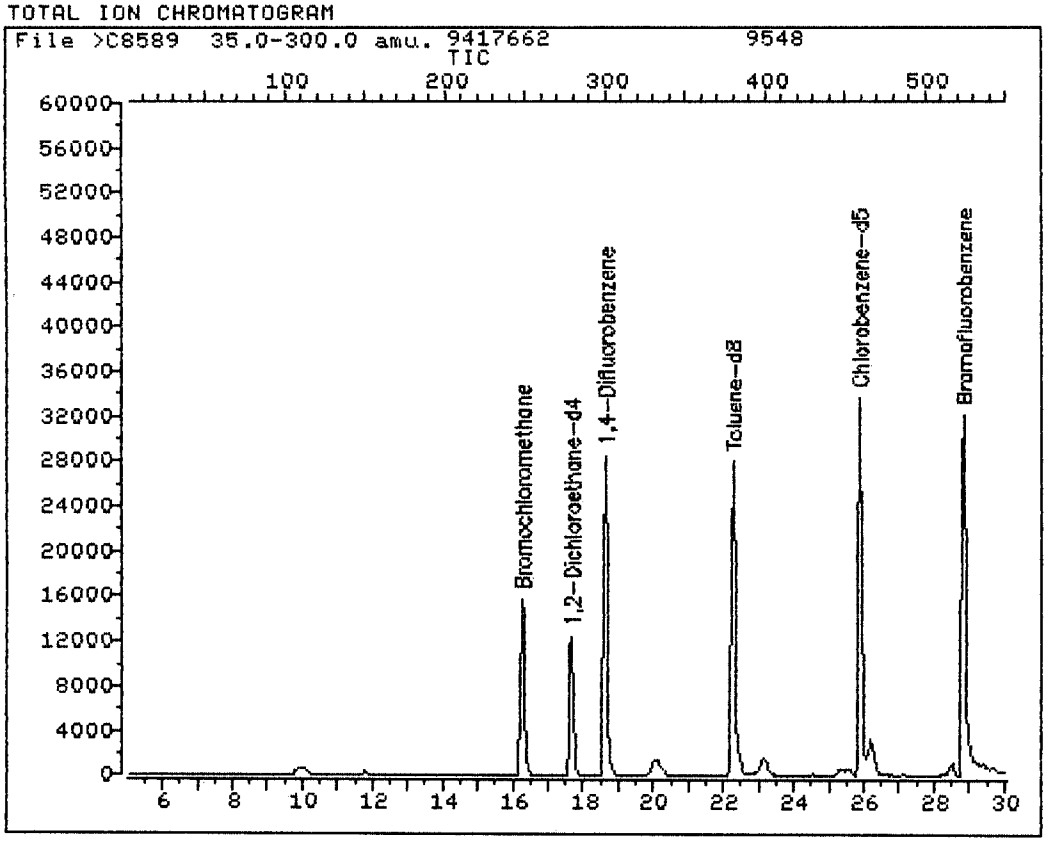
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	18885	50.00	ug/l	94
18)	1,2-Dichloroethane-d4	17.68	279	44469	53.94	ug/l	87
20)	*1,4-Difluorobenzene	18.64	300	70678	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	54636	50.00	ug/l	100
41)	Toluene-d8	22.29	380	62090	47.59	ug/l	91
44)	Bromofluorobenzene	28.85	524	50850	45.73	ug/l	94

* Compound is ISTD

334

TOTAL ION CHROMATOGRAM



Data File: >C8589::C2 Quant Output File: ^C8589::D2
Name: 9417662
Misc: 9548 RFWI BB-DL-04

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941213 00:25
Injected at: 941212 23:54

335

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 16:03
Output File: ^C8606::D2 Injected at: 941213 15:33
Data File: >C8606::C2 Dilution Factor: 1.00000
Name: 9417662
Misc: 9548 RFWI BB-DL-04

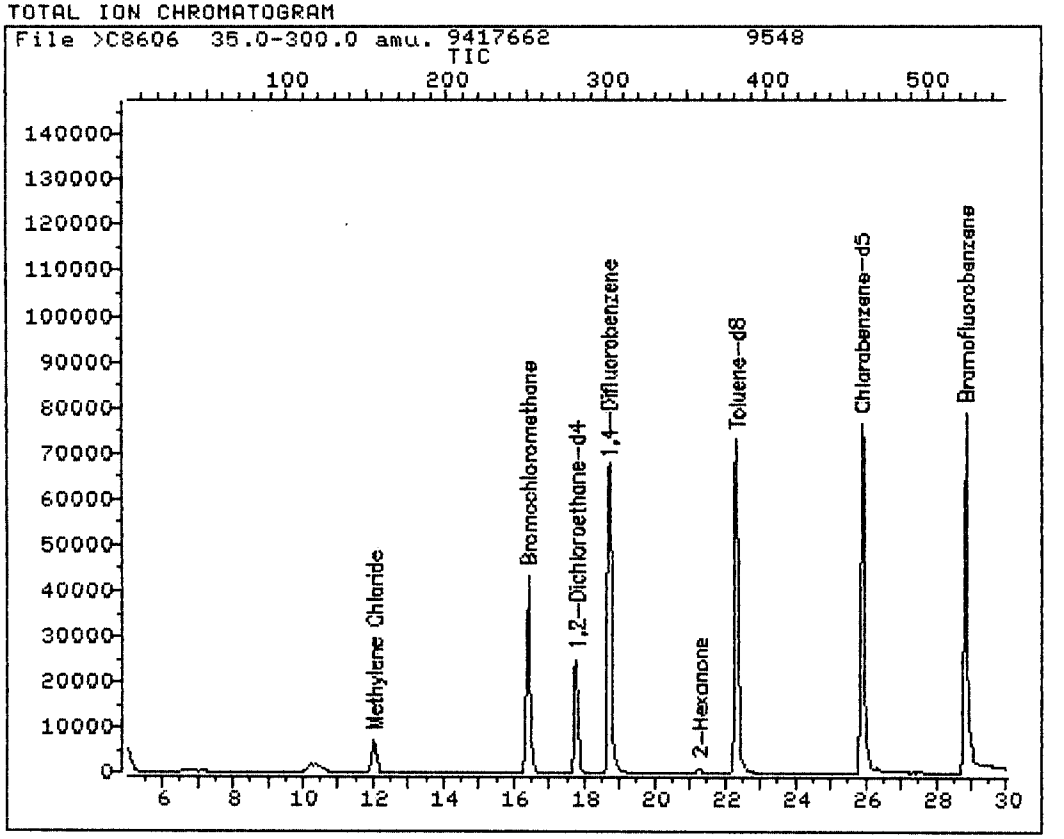
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.41	251	58061	50.00	ug/l	94
8)	Methylene Chloride	12.03	155	23317	12.16	ug/l	92
18)	1,2-Dichloroethane-d4	17.77	281	69138	29.22	ug/l	95
20)	*1,4-Difluorobenzene	18.69	301	241828	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	178087	50.00	ug/l	100
37)	2-Hexanone	21.29	358	4208	2.89	ug/l	93
41)	Toluene-d8	22.33	381	204639	47.15	ug/l	97
44)	Bromofluorobenzene	28.85	524	119559M	34.44	ug/l	

* Compound is ISTD

336

TOTAL ION CHROMATOGRAM



Data File: >C8606::C2 Quant Output File: ^C8606::D2
Name: 9417662
Misc: 9548 RFWI BB-DL-04

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941213 16:03
Injected at: 941213 15:33

337

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417663	DILUTION FACTOR	500000 ~~1000~~ 500
DATA FILE	>CB590	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-DL-05	ANALYZED BY	LARRY

CAS #	COMPOUND	MG/~~L~~Kg	MDL	CAS #	COMPOUND	MG/~~L~~Kg	MDL
107028	Acrolein	U	25000	78875	1,2-Dichloropropane	U	2500
107131	Acrylonitrile	U	25000	10061015	cis-1,3-Dichloropropene	U	2500
74873	Chloromethane	U	5000	79016	Trichloroethene	U	2500
74839	Bromomethane	U	5000	71432	Benzene	U	2500
75014	Vinyl Chloride	U	5000	124481	Dibromochloromethane	U	2500
75003	Chloroethane	U	5000	79005	1,1,2-Trichloroethane	U	2500
75092	Methylene Chloride	44000 ~~B~~ U	2500	10061026	trans-1,3-Dichloropropene	U	2500
67641	Acetone	U J	5000	110758	2-Chloroethylvinylether	U	5000
75150	Carbon Disulfide	U	2500	75252	Bromoform	U	2500
75694	Trichlorofluoromethane	U	5000	591786	2-Hexanone	120000 ~~L~~J	5000
75354	1,1-Dichloroethene	U	2500	108101	4-Methyl-2-pentanone	U	5000
75343	1,1-Dichloroethane	U	2500	127184	Tetrachloroethene	U	2500
156605	trans-1,2-Dichloroethene	U	2500	79345	1,1,2,2-Tetrachloroethane	U	2500
67663	Chloroform	U	2500	108883	Toluene	13000	2500
107062	1,2-Dichloroethane	U	2500	108907	Chlorobenzene	U	2500
78933	2-Butanone	93000 J	5000	100414	Ethylbenzene	36000	2500
71556	1,1,1-Trichloroethane	U	2500	100425	Styrene	U	2500
56235	Carbon Tetrachloride	U	2500	1330207	m,p-Xylene	130000 ~~L~~J	2500
108054	Vinyl Acetate	U	5000	95476	o-Xylene	36000	2500
75274	Bromodichloromethane	U	2500	156592	cis-1,2-Dichloroethene	U	2500

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	110 %	76-114	OK
Toluene-d8	94 %	88-110	OK
Bromofluorobenzene	110 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,

B - Indicates compound found in associated blank.

in ppm

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ACCREDITED LABORATORIES Contract: -----

Lab File ID: >B7555 DFTPP Injection date: 12/09/94

Instrument ID: B DFTPP Injection time: 13:46

12/9 B

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.2
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	56.8
70	Less than 2.0% of mass 69	.6(1.0)1
127	40.0 - 60.0% of mass 198	41.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% Relative abundance	100.
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	12.2
365	Greater than 1.00% of mass 198	1.72
441	Present, but less than mass 443	7.3
442	Greater than 40.0% of mass 198	46.0
443	17.0 - 23.0% of mass 442	9.4(20.4)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	SSTD050	>B7557	12/09/94	14:55
2	----------	9417452	>B7558	12/09/94	15:52
3	----------	SBLK69	>B7559	12/09/94	16:39
4	----------	9417643	>B7560	12/09/94	17:27
5	----------	9417643MS	>B7561	12/09/94	18:14
6	----------	9417643MSD	>B7562	12/09/94	19:01
7	----------	9417667	>B7563	12/09/94	19:49
8	----------	9417728	>B7564	12/09/94	20:36
9	----------	9417730	>B7565	12/09/94	21:23
10	----------	9417735	>B7566	12/09/94	22:10
11	----------	9417558	>B7567	12/09/94	22:58
12	----------	9417862	>B7568	12/09/94	23:45
13	----------	9417863	>B7569	12/10/94	0:32
14	----------	9417866	>B7570	12/10/94	1:20
15	----------	9417693 (A)	>B7571	12/10/94	2:07 BB DLOS
16	----------	9417693 (O)	>B7572	12/10/94	2:54 "
17					
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21					
22					

FORM V SV

171

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

12/16 OnF

Lab Name: ACCREDITED LABORATORIES Contract: -----

Lab File ID: >F9250 DFTPP Injection date: 12/16/94

Instrument ID: F DFTPP Injection time: 14:18

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.0
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	66.0
70	Less than 2.0% of mass 69	0.0(0.0)1
127	40.0 - 60.0% of mass 198	40.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% Relative abundance	100.
199	5.0 - 9.0% of mass 198	6.2
275	10.0 - 30.0% of mass 198	19.2
365	Greater than 1.00% of mass 198	1.92
441	Present, but less than mass 443	6.8
442	Greater than 40.0% of mass 198	43.5
443	17.0 - 23.0% of mass 442	7.9(18.2)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	SSTD050	>F9251	12/16/94	14:37
2	----------	SSTD160	>F9252	12/16/94	15:31
3	----------	SSTD020	>F9253	12/16/94	16:21
4	----------	SSTD120	>F9254	12/16/94	17:10
5	----------	SSTD080	>F9255	12/16/94	18:00
6	----------	9417644	>F9256	12/16/94	18:49
7	----------	9417645	>F9257	12/16/94	19:39
8	----------	9417646	>F9258	12/16/94	20:28
9	----------	9417647	>F9259	12/16/94	21:18
10	----------	9417648	>F9260	12/16/94	22:08
11	----------	9417649	>F9261	12/16/94	22:57
12	----------	9417650	>F9262	12/16/94	23:47
13	----------	9417651	>F9263	12/17/94	0:36
14	----------	9417652	>F9264	12/17/94	1:26
15	----------	9417653	>F9265	12/17/94	2:16
16					
17					
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19					
20					
21					
22					

IC-2

FORM V SV

172

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

12/19 on F

Lab Name: ACCREDITED LABORATORIES Contract: -----

Lab File ID: >F9269 DFTPP Injection date: 12/19/94

Instrument ID: F DFTPP Injection time: 11:00

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.4
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	66.6
70	Less than 2.0% of mass 69	.6(.9)1
127	40.0 - 60.0% of mass 198	40.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% Relative abundance	100.
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.9
365	Greater than 1.00% of mass 198	2.07
441	Present, but less than mass 443	8.5
442	Greater than 40.0% of mass 198	54.7
443	17.0 - 23.0% of mass 442	10.3(18.8)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	SSTD050	>F9271	12/19/94	12:50
2	----------	SBLK76	>F9272	12/19/94	13:48
3	----------	SBLK79	>F9273	12/19/94	14:41
4	----------	9418219	>F9274	12/19/94	15:30
5	----------	9418220	>F9275	12/19/94	16:20
6	----------	9418221	>F9276	12/19/94	17:10
7	----------	9417879	>F9277	12/19/94	17:59
8	----------	9417744	>F9278	12/19/94	18:49
9	----------	9417745	>F9279	12/19/94	19:39
10	----------	9417746	>F9280	12/19/94	20:28
11	----------	9417747	>F9281	12/19/94	21:18
12	----------	9417748	>F9282	12/19/94	22:07
13	----------	9417749 some	>F9283	12/19/94	22:57
14	----------	9417750 other case	>F9284	12/19/94	23:46
15	----------	9418251 " "	>F9285	12/20/94	0:36
16					
17					
18					
19					
20					
21					
22					

FORM V SV

173

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ACCREDITED LABORATORIES Contract: -----

Lab File ID: >F9309 DFTPP Injection date: 12/20/94

Instrument ID: F DFTPP Injection time: 16:39

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.6
68	Less than 2.0% of mass 69	0.0(0.0)1
69	Mass 69 relative abundance	74.0
70	Less than 2.0% of mass 69	0.0(0.0)1
127	40.0 - 60.0% of mass 198	44.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% Relative abundance	100.
199	5.0 - 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	22.4
365	Greater than 1.00% of mass 198	2.87
441	Present, but less than mass 443	12.6
442	Greater than 40.0% of mass 198	87.5
443	17.0 - 23.0% of mass 442	17.2(19.6)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	SSTD050	>F9310	12/20/94	16:58
2	----------	SSTD160	>F9311	12/20/94	18:06
3	----------	SSTD020	>F9312	12/20/94	18:56
4	----------	SSTD120	>F9313	12/20/94	19:45
5	----------	SSTD080	>F9314	12/20/94	20:35
6	----------	9418349	>F9315	12/20/94	21:24
7	----------	9417712	>F9316	12/20/94	22:14
8	----------	SBLK77	>F9317	12/20/94	23:03
9	----------	9418251	>F9318	12/20/94	23:53
10	----------	SBLK80	>F9319	12/21/94	0:43
11	----------	9418472	>F9320	12/21/94	1:32
12	----------	9418474	>F9321	12/21/94	2:21
13	----------	9418470	>F9322	12/21/94	3:11
14	----------	9418471	>F9323	12/21/94	4:01
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

174

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ACCREDITED LABORATORIES Contract: -----

Lab File ID: >B7866 DFTPP Injection date: 12/23/94

Instrument ID: B DFTPP Injection time: 23:03

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.4
68	Less than 2.0% of mass 69	.9(1.3)1
69	Mass 69 relative abundance	71.0
70	Less than 2.0% of mass 69	0.0(0.0)1
127	40.0 - 60.0% of mass 198	52.8
197	Less than 1.0% of mass 198	.6
198	Base Peak, 100% Relative abundance	100.
199	5.0 - 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	17.5
365	Greater than 1.00% of mass 198	1.29
441	Present, but less than mass 443	5.6
442	Greater than 40.0% of mass 198	50.9
443	17.0 - 23.0% of mass 442	9.3(18.2)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	SSTD050	>B7867	12/23/94	23:19
2	----------	9417654	>B7868	12/24/94	0:06
3	----------	9417655	>B7869	12/24/94	0:53
4	----------	9417656	>B7870	12/24/94	1:41
5	----------	9417657	>B7871	12/24/94	2:28
6	----------	9417658	>B7872	12/24/94	3:16
7	----------	9417659	>B7873	12/24/94	4:03
8	----------	9417660	>B7874	12/24/94	4:51
9	----------	9417661	>B7875	12/24/94	5:38
10	----------	9417662	>B7876	12/24/94	6:25
11	----------	9417663	>B7877	12/24/94	7:12
12	----------	9417664	>B7878	12/24/94	7:59
13	----------	9417665	>B7879	12/24/94	8:46
14	----------	9417666	>B7880	12/24/94	9:34
15	----------	9418785 (1:	>B7881	12/24/94	10:21
16	----------	9418795 see other case	>B7882	12/24/94	11:08
17					
18					
19					
20					
21					
22					

FORM V SV

175

5B
SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ACCREDITED LABORATORIES Contract: -----

Lab File ID: >B7922 DFTPP Injection date: 12/28/94

Instrument ID: B DFTPP Injection time: 9:11

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.2
68	Less than 2.0% of mass 69	1.1(1.6)1
69	Mass 69 relative abundance	67.6
70	Less than 2.0% of mass 69	0.0(0.0)1
127	40.0 - 60.0% of mass 198	43.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% Relative abundance	100.
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	16.1
365	Greater than 1.00% of mass 198	1.28
441	Present, but less than mass 443	9.8
442	Greater than 40.0% of mass 198	70.1
443	17.0 - 23.0% of mass 442	15.2(21.7)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	SSTD050	>B7923	12/28/94	9:29
2	----------	9417646	>B7924	12/28/94	10:18
3	----------	9417647	>B7925	12/28/94	11:05
4	----------	9417648	>B7926	12/28/94	11:53
5	----------	9417649	>B7927	12/28/94	12:40
6	----------	9417650	>B7928	12/28/94	13:28
7	----------	9417651	>B7929	12/28/94	14:16
8	----------	9417653	>B7930	12/28/94	15:04
9	----------	9417654	>B7931	12/28/94	15:51
10	----------	9417656	>B7932	12/28/94	16:38
11	----------	9417657	>B7933	12/28/94	17:26
12	----------	9417663	>B7934	12/28/94	18:13
13	----------	9418277	>B7935	12/28/94	19:01
14	----------	9418278	>B7936	12/28/94	19:48
15	----------	9418279	>B7937	12/28/94	20:36
16					
17					
18					
19					
20					
21					
22					

FORM V SV

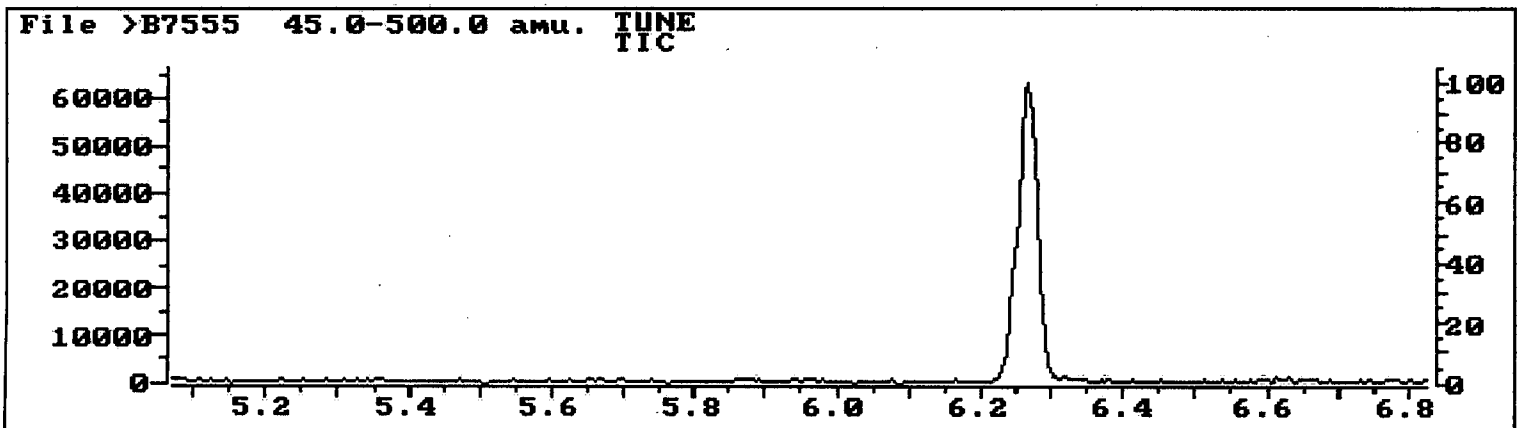
176

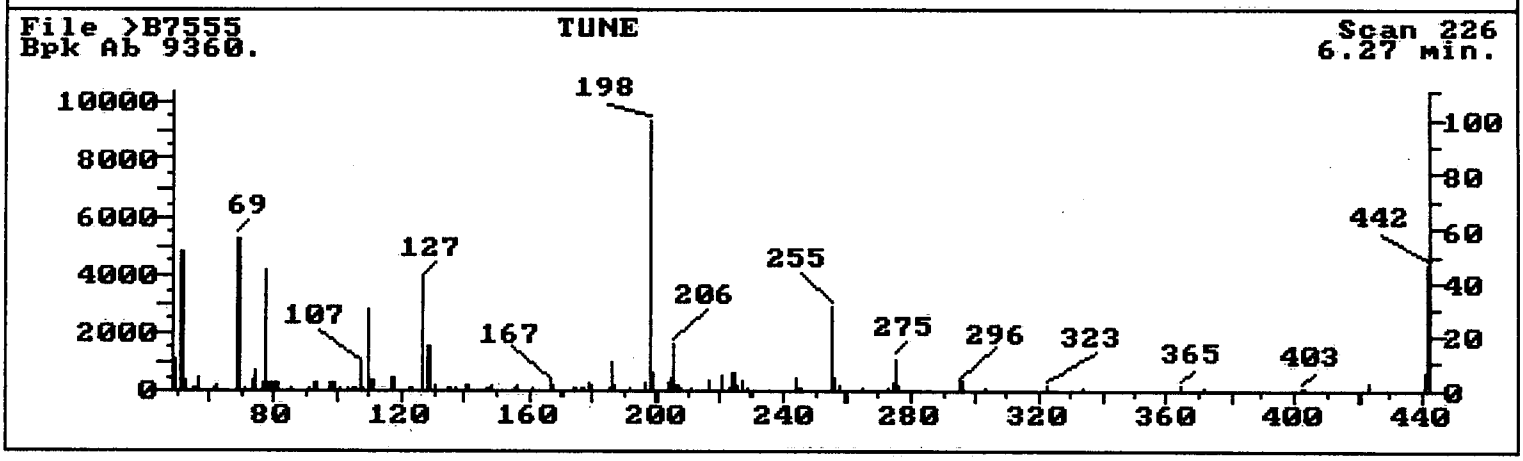
GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	51.21	51.21	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	56.78	56.78	Ok
70	Less than 2% of mass 69	.58	1.02	Ok
127	40-60% of mass 198	41.22	41.22	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.69	6.69	Ok
275	10-30% of mass 198	12.21	12.21	Ok
365	Greater than 1% of mass 198	1.72	1.72	Ok
441	Less than mass 443	7.28	77.47	Ok
442	Greater than 40% of mass 198	45.99	45.99	Ok
443	17-23% of mass 442	9.39	20.42	Ok

Injection Date: 12/09/94
Injection Time: 13:46
Data File: >B7555
Scan: 226





177

>B7555 TUNE
226

File: >B7555 Scan #: 226 Retn. time: 6.27

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
48.80	140.00	85.85	107.00	134.85	86.00	195.95	280.00	246.05	85.00
49.90	1095.00	91.05	73.00	137.05	112.00	197.95	9360.00	255.00	2898.00
51.00	4793.00	92.95	286.00	140.90	165.00	198.85	626.00	256.00	510.00
52.00	331.00	98.05	231.00	146.80	106.00	201.35	57.00	258.00	159.00
55.00	118.00	99.05	231.00	148.00	162.00	203.95	262.00	264.90	86.00
55.90	123.00	101.05	131.00	149.00	54.00	205.05	383.00	273.00	137.00
57.00	468.00	102.95	68.00	153.00	59.00	206.05	1601.00	274.10	247.00
61.90	70.00	103.85	87.00	155.00	101.00	206.95	186.00	274.90	1143.00
62.90	158.00	104.95	100.00	156.10	161.00	207.95	70.00	276.00	159.00
69.00	5315.00	106.95	924.00	160.90	67.00	211.15	87.00	296.00	301.00
70.10	54.00	108.05	122.00	167.00	300.00	217.05	364.00	303.10	69.00
71.10	68.00	109.95	2851.00	167.90	203.00	220.95	566.00	322.95	172.00
73.90	343.00	111.05	369.00	174.00	105.00	222.35	57.00	334.05	73.00
75.00	730.00	116.15	48.00	175.00	137.00	222.95	96.00	365.00	161.00
76.00	231.00	117.05	451.00	177.00	74.00	224.15	631.00	372.10	79.00
77.00	4157.00	122.75	103.00	179.00	258.00	224.95	165.00	402.90	62.00
78.10	255.00	123.05	111.00	180.00	190.00	226.95	321.00	423.05	257.00
79.00	262.00	126.95	3858.00	185.20	134.00	228.85	75.00	441.15	681.00
80.00	224.00	128.05	263.00	186.00	943.00	243.85	453.00	442.05	4305.00
81.00	290.00	128.95	1493.00	187.10	209.00	245.05	97.00	442.95	879.00
81.90	58.00	130.05	155.00	192.00	79.00				

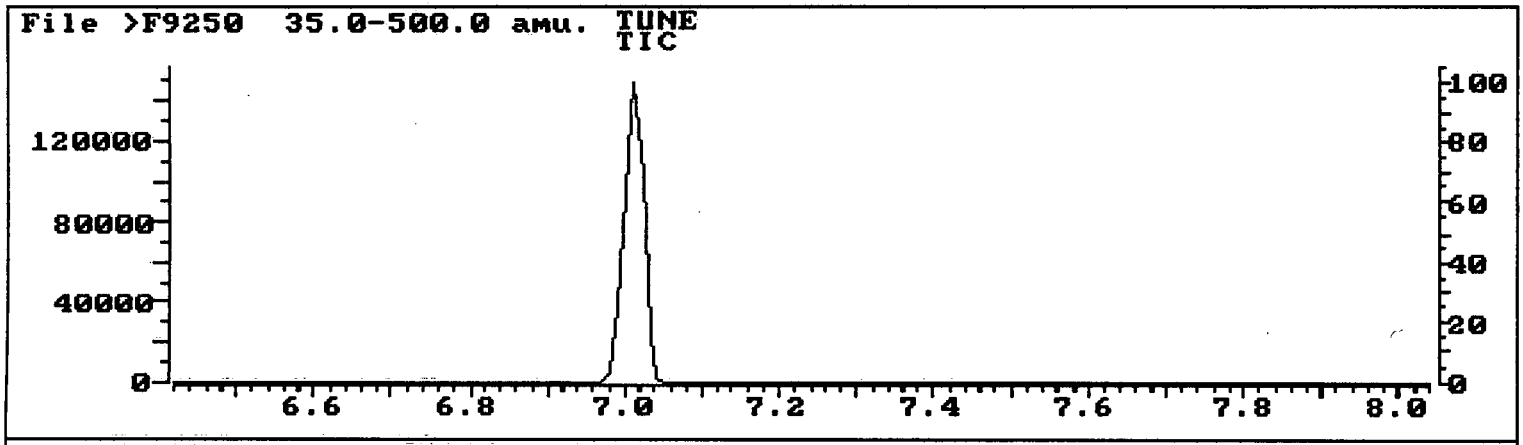
178

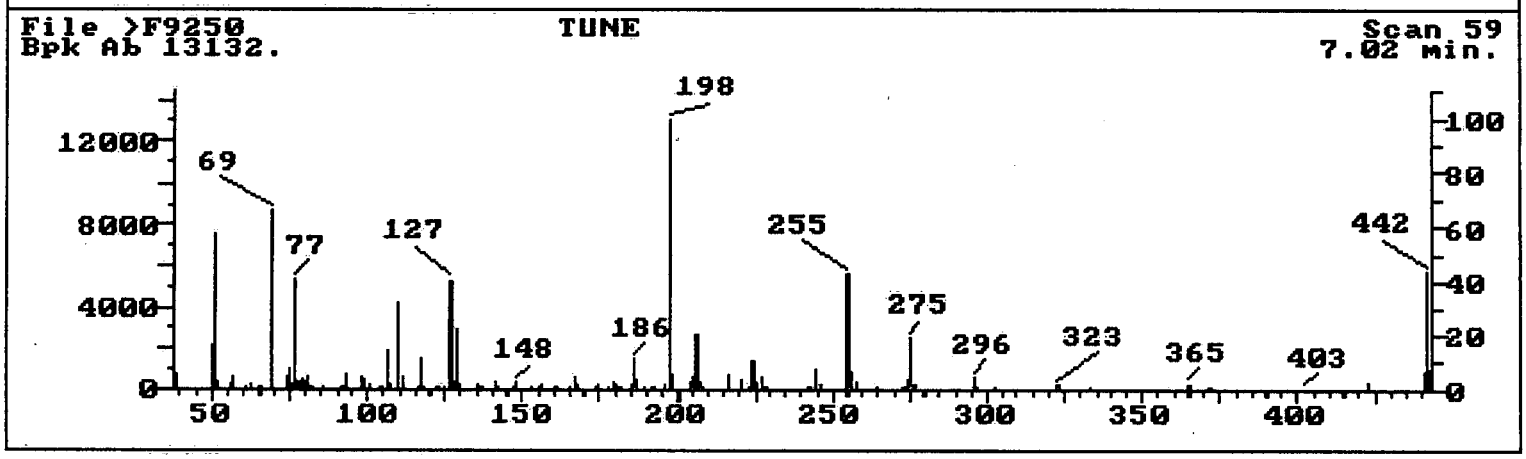
GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	56.99	56.99	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	66.01	66.01	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	40.00	40.00	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.16	6.16	Ok
275	10-30% of mass 198	19.16	19.16	Ok
365	Greater than 1% of mass 198	1.92	1.92	Ok
441	Less than mass 443	6.82	86.39	Ok
442	Greater than 40% of mass 198	43.45	43.45	Ok
443	17-23% of mass 442	7.89	18.16	Ok

Injection Date: 12/16/94
Injection Time: 14:18
Data File: >F9250
Scan: 59





179

>F9250 TUNE
59

File: >F9250 Scan #: 59 Retn. time: 7.02

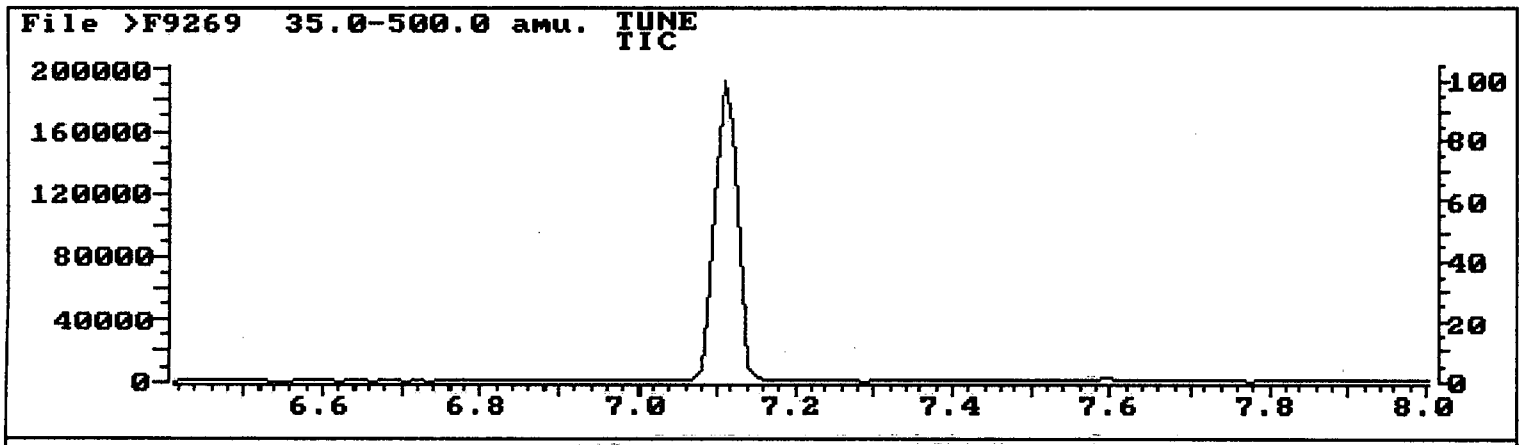
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
37.90	142.0	91.95	114.0	141.00	321.0	193.00	136.0	255.90	870.0
39.00	778.0	92.95	820.0	142.00	85.0	195.95	267.0	257.90	368.0
49.00	64.0	97.95	535.0	143.00	69.0	197.95	13132.0	265.00	138.0
50.00	2077.0	98.95	431.0	147.00	152.0	198.95	809.0	272.90	166.0
51.00	7484.0	101.05	222.0	147.90	348.0	199.95	54.0	274.00	473.0
52.00	359.0	102.95	76.0	149.00	66.0	202.95	78.0	275.00	2516.0
54.90	69.0	103.95	143.0	152.90	105.0	203.95	388.0	276.00	291.0
55.90	202.0	104.85	155.0	154.00	70.0	204.95	623.0	276.90	226.0
57.00	555.0	106.95	1897.0	155.00	165.0	205.95	2686.0	296.00	678.0
60.90	88.0	107.95	270.0	156.00	261.0	207.05	327.0	297.00	85.0
62.00	76.0	109.95	4180.0	160.00	106.0	207.95	99.0	303.00	90.0
63.00	284.0	110.95	573.0	160.90	130.0	215.95	62.0	314.95	56.0
65.00	101.0	115.95	94.0	164.90	99.0	216.95	771.0	322.95	233.0
68.90	8668.0	116.95	1418.0	166.00	83.0	217.95	82.0	333.95	158.0
74.00	638.0	117.95	104.0	167.00	543.0	220.95	428.0	352.05	70.0
75.00	1003.0	121.95	97.0	168.00	205.0	222.95	163.0	352.95	53.0
76.10	289.0	122.95	193.0	174.00	137.0	223.95	1398.0	353.95	76.0
77.00	5353.0	123.95	83.0	175.00	251.0	224.95	372.0	364.90	252.0
78.10	378.0	124.95	91.0	177.00	107.0	226.95	625.0	372.00	119.0
79.00	483.0	126.95	5253.0	179.00	410.0	227.95	85.0	402.90	53.0
80.00	359.0	127.95	405.0	180.00	301.0	228.95	101.0	422.85	324.0
81.00	537.0	128.95	2841.0	181.00	141.0	242.05	67.0	423.85	64.0
81.90	117.0	129.95	235.0	185.00	201.0	242.95	90.0	441.15	895.0
83.00	107.0	133.95	69.0	186.00	1518.0	244.05	1047.0	441.85	5706.0
84.95	81.0	135.05	228.0	187.00	429.0	244.95	142.0	442.95	1036.0
85.95	175.0	136.05	91.0	189.00	103.0	245.95	237.0	443.95	98.0
90.95	123.0	137.05	102.0	192.00	131.0	254.90	5602.0		

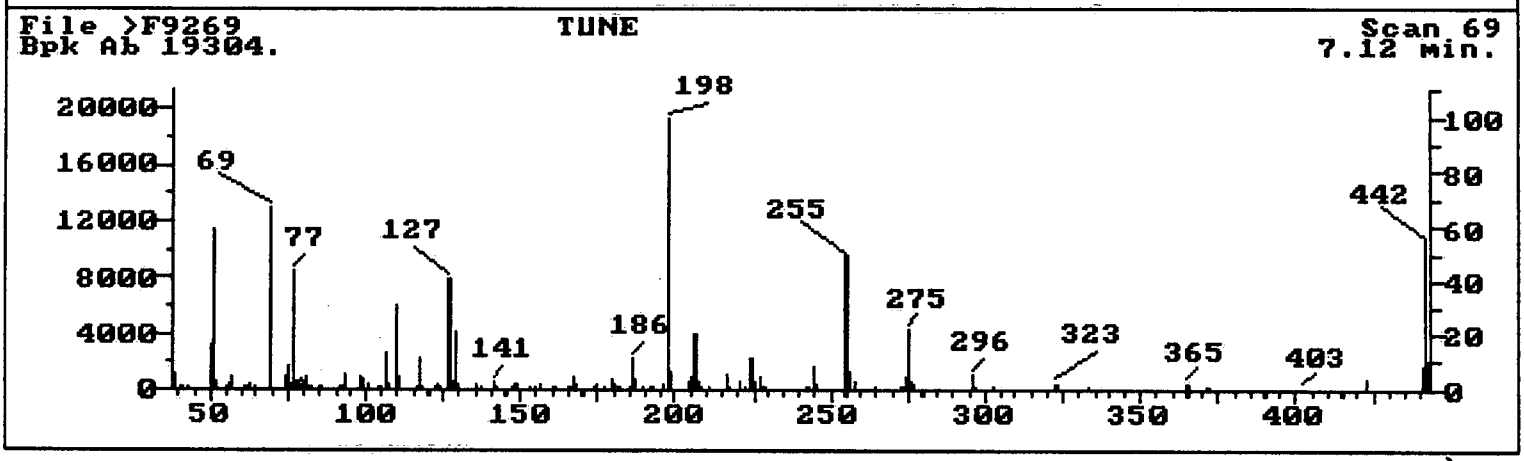
GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	59.36	59.36	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	66.57	66.57	Ok
70	Less than 2% of mass 69	.61	.92	Ok
127	40-60% of mass 198	40.09	40.09	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.91	6.91	Ok
275	10-30% of mass 198	21.87	21.87	Ok
365	Greater than 1% of mass 198	2.07	2.07	Ok
441	Less than mass 443	8.53	82.68	Ok
442	Greater than 40% of mass 198	54.74	54.74	Ok
443	17-23% of mass 442	10.32	18.85	Ok

Injection Date: 12/19/94
Injection Time: 11:00
Data File: >F9269
Scan: 69





181

>F9269 TUNE
69

File: >F9269 Scan #: 69 Retn. time: 7.12

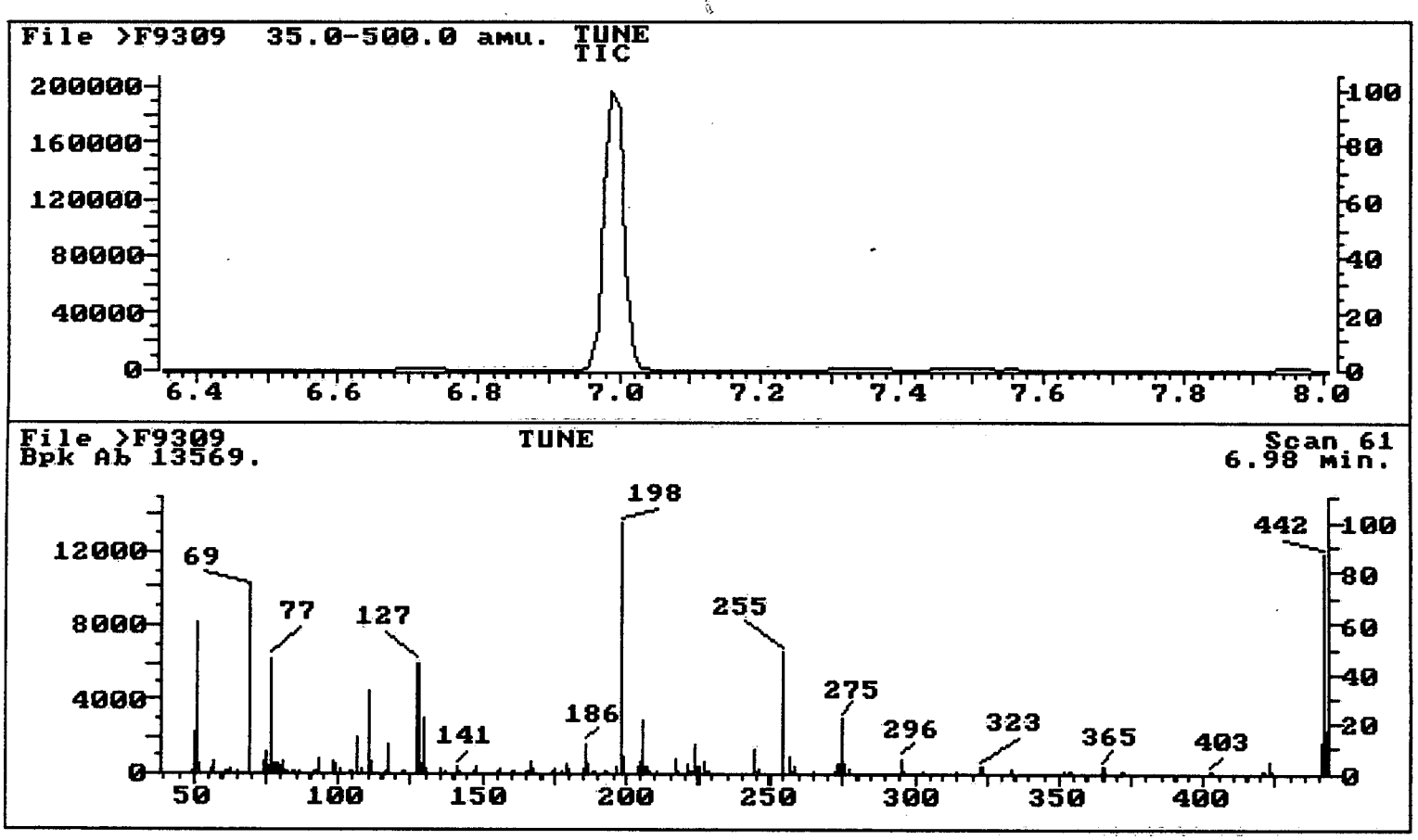
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.00	213.0	92.95	1150.0	147.90	409.0	205.95	3926.0	275.00	4222.0
39.00	1173.0	95.95	49.0	149.00	295.0	207.05	496.0	276.00	538.0
40.00	48.0	97.95	843.0	153.00	130.0	207.95	142.0	277.00	339.0
41.00	158.0	98.95	648.0	154.00	99.0	209.85	63.0	285.00	51.0
43.00	156.0	100.95	346.0	155.00	248.0	211.05	164.0	293.00	89.0
49.00	122.0	103.95	221.0	156.00	351.0	216.05	95.0	296.00	1131.0
50.00	3162.0	104.95	229.0	160.00	142.0	216.95	1118.0	297.00	158.0
51.00	11458.0	105.95	94.0	161.00	170.0	217.95	149.0	303.00	135.0
52.00	577.0	106.95	2621.0	165.00	166.0	220.95	565.0	313.95	53.0
55.00	149.0	107.95	334.0	166.00	140.0	222.95	264.0	314.95	119.0
55.90	396.0	109.95	6036.0	167.00	921.0	223.95	2172.0	322.95	379.0
57.00	874.0	110.95	880.0	168.00	366.0	224.95	498.0	323.95	64.0
61.00	152.0	111.95	99.0	173.00	82.0	226.05	58.0	326.85	59.0
62.00	137.0	115.95	183.0	174.00	175.0	226.95	1059.0	333.95	244.0
63.00	400.0	116.95	2303.0	175.00	298.0	228.05	138.0	334.95	66.0
64.00	53.0	117.95	148.0	177.00	151.0	228.95	204.0	345.95	84.0
65.00	182.0	121.95	170.0	177.90	60.0	233.95	66.0	351.95	118.0
68.90	12850.0	122.95	287.0	179.00	610.0	234.95	63.0	353.05	69.0
70.00	118.0	123.95	126.0	180.00	411.0	236.95	58.0	354.05	111.0
73.10	73.0	125.05	121.0	181.00	187.0	240.85	53.0	364.90	399.0
74.00	1007.0	126.95	7739.0	185.00	277.0	242.05	110.0	365.90	62.0
75.00	1603.0	127.95	606.0	186.00	2301.0	243.05	126.0	372.00	199.0
76.00	442.0	128.95	4166.0	187.00	629.0	244.05	1700.0	372.90	46.0
77.00	8407.0	129.95	324.0	189.00	157.0	245.05	197.0	383.00	44.0
78.00	578.0	130.95	73.0	191.00	77.0	245.95	378.0	402.00	71.0
79.00	710.0	133.95	105.0	192.00	200.0	249.05	74.0	402.90	105.0
80.00	485.0	134.95	338.0	193.00	187.0	253.00	43.0	420.85	83.0
81.00	792.0	137.05	144.0	195.95	372.0	255.00	9382.0	421.85	102.0
82.00	185.0	139.90	55.0	197.95	19304.1	256.00	1313.0	422.85	669.0
83.00	145.0	141.00	490.0	198.95	1334.0	257.00	99.0	423.85	107.0
84.95	146.0	142.00	166.0	199.95	94.0	258.00	567.0	441.15	1647.0
85.95	200.0	143.00	106.0	202.95	100.0	265.00	188.0	441.85	10568.0
86.95	116.0	145.90	71.0	203.95	554.0	272.90	259.0	442.85	1992.0
90.95	198.0	147.00	244.0	204.95	975.0	274.00	778.0	443.95	185.0
91.95	173.0								

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	59.58	59.58	Ok
68	Less than 2% of mass 69	0.00	0.00	Ok
69	(reference only)	73.96	73.96	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	44.10	44.10	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	7.30	7.30	Ok
275	10-30% of mass 198	22.35	22.35	Ok
365	Greater than 1% of mass 198	2.87	2.87	Ok
441	Less than mass 443	12.62	73.58	Ok
442	Greater than 40% of mass 198	87.46	87.46	Ok
443	17-23% of mass 442	17.16	19.62	Ok

Injection Date: 12/20/94
Injection Time: 16:39
Data File: >F9309
Scan: 61



183

>F9309 TUNE
61

File: >F9309 Scan #: 61 Retn. time: 6.98

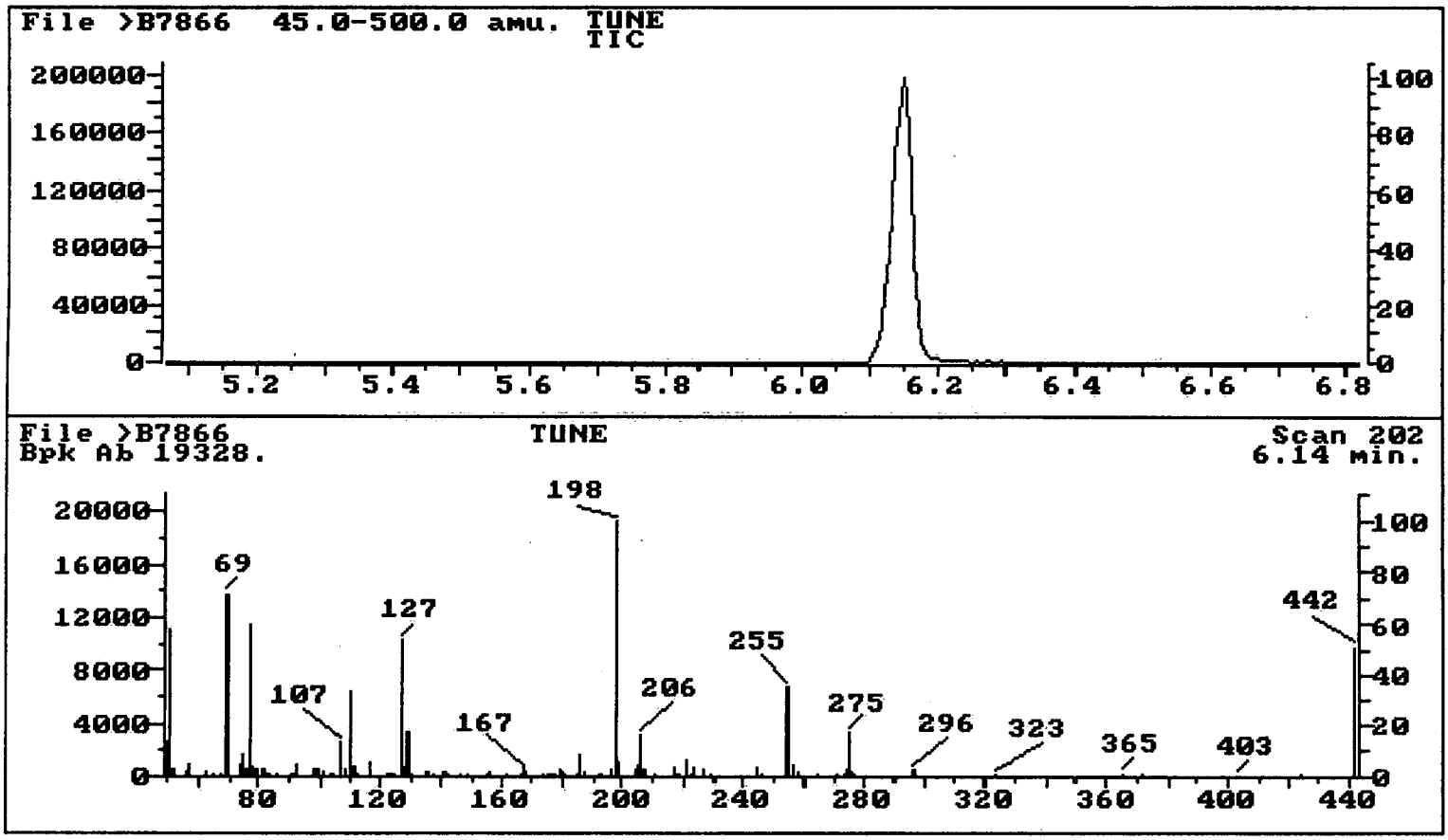
m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
38.90	708.0	90.95	121.0	147.00	178.0	206.05	2872.0	275.00	3033.0
43.00	67.0	91.95	123.0	148.00	337.0	207.05	383.0	276.00	436.0
49.00	95.0	92.95	852.0	155.00	170.0	207.95	93.0	277.00	279.0
50.00	2197.0	97.95	596.0	156.00	242.0	210.95	107.0	296.00	846.0
51.00	8084.0	98.95	482.0	160.00	118.0	215.95	66.0	297.00	130.0
52.00	448.0	100.05	67.0	161.00	148.0	216.95	809.0	303.10	102.0
55.00	86.0	100.95	269.0	165.00	115.0	217.95	90.0	314.95	111.0
56.00	251.0	103.95	163.0	166.00	100.0	221.05	469.0	323.05	314.0
57.00	665.0	104.95	150.0	167.10	639.0	221.85	106.0	326.95	47.0
61.00	99.0	106.95	1971.0	168.00	254.0	222.95	164.0	334.05	216.0
62.00	126.0	108.05	282.0	174.00	138.0	224.05	1631.0	335.05	58.0
63.00	296.0	109.95	4526.0	175.00	212.0	225.05	407.0	345.95	57.0
65.00	112.0	110.95	630.0	177.00	134.0	227.05	752.0	352.05	93.0
69.00	10035.0	116.05	107.0	179.00	460.0	228.05	97.0	354.05	125.0
73.00	55.0	116.95	1584.0	180.00	312.0	228.95	126.0	364.90	390.0
74.00	725.0	121.95	115.0	185.00	216.0	242.05	86.0	372.00	161.0
75.00	1224.0	123.05	194.0	186.10	1637.0	243.05	79.0	402.00	74.0
76.00	358.0	125.05	79.0	187.10	457.0	244.05	1241.0	403.00	97.0
77.00	6236.0	127.05	5984.0	189.00	103.0	245.05	160.0	420.95	105.0
78.10	443.0	128.05	481.0	192.00	111.0	246.05	243.0	422.05	82.0
79.00	457.0	129.05	2942.0	193.00	140.0	255.00	6543.0	422.95	629.0
80.00	424.0	130.05	258.0	196.05	317.0	256.00	971.0	423.95	120.0
81.00	586.0	133.95	82.0	197.95	13569.0	257.00	93.0	441.25	1713.0
82.00	148.0	135.05	221.0	198.95	991.0	258.00	372.0	441.95	11868.0
83.00	150.0	137.05	93.0	202.95	84.0	265.00	174.0	442.95	2328.0
84.95	110.0	141.00	348.0	204.05	420.0	273.00	197.0	443.95	207.0
85.95	144.0	141.90	133.0	205.05	694.0	274.00	527.0		

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	57.36	57.36	Ok
68	Less than 2% of mass 69	.93	1.30	Ok
69	(reference only)	71.02	71.02	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	52.78	52.78	Ok
197	Less than 1% of mass 198	.59	.59	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	6.28	6.28	Ok
275	10-30% of mass 198	17.46	17.46	Ok
365	Greater than 1% of mass 198	1.29	1.29	Ok
441	Less than mass 443	5.59	60.32	Ok
442	Greater than 40% of mass 198	50.88	50.88	Ok
443	17-23% of mass 442	9.27	18.22	Ok

Injection Date: 12/23/94
Injection Time: 23:03
Data File: >B7866
Scan: 202



185

>B7866 TUNE
202

File: >B7866 Scan #: 202 Retn. time: 6.14

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
49.10	58.0	92.05	188.0	136.15	102.0	180.10	426.0	237.05	60.0
50.00	2593.0	93.05	877.0	137.15	140.0	181.00	154.0	244.15	724.0
51.00	11087.0	96.95	45.0	141.00	351.0	185.20	213.0	246.25	164.0
52.10	524.0	98.05	581.0	142.00	142.0	186.20	1586.0	255.10	6635.0
56.00	341.0	99.05	559.0	146.20	107.0	187.20	424.0	256.10	1060.0
57.00	775.0	100.95	373.0	147.10	156.0	191.20	81.0	257.10	109.0
61.10	92.0	103.05	98.0	148.10	268.0	192.10	149.0	258.20	287.0
62.10	106.0	104.05	244.0	151.70	73.0	193.10	172.0	265.10	162.0
63.00	404.0	105.05	193.0	154.00	94.0	196.15	472.0	271.20	200.0
64.00	77.0	107.05	2630.0	155.20	161.0	196.75	114.0	273.10	246.0
65.10	213.0	108.05	454.0	156.10	293.0	198.05	19328.1	274.20	559.0
67.90	179.0	109.05	60.0	157.90	80.0	199.05	1214.0	275.20	3374.0
69.00	13727.0	110.05	6294.0	161.10	172.0	203.05	116.0	276.20	338.0
72.90	108.0	111.15	739.0	162.00	76.0	204.15	474.0	277.20	156.0
74.10	875.0	112.05	133.0	164.20	51.0	205.15	885.0	296.10	572.0
75.00	1599.0	116.05	114.0	165.00	104.0	206.05	3193.0	323.35	192.0
76.10	454.0	117.05	1228.0	166.10	145.0	207.15	584.0	334.25	102.0
77.10	11368.0	122.05	184.0	167.10	648.0	210.55	139.0	365.20	250.0
78.10	758.0	123.15	212.0	168.10	380.0	211.25	143.0	372.30	123.0
79.10	554.0	124.05	147.0	169.20	65.0	217.15	705.0	403.20	49.0
80.00	545.0	125.05	117.0	173.10	91.0	218.15	155.0	424.25	123.0
81.00	597.0	127.05	10201.0	174.10	144.0	221.15	1401.0	441.35	1081.0
82.00	234.0	128.15	754.0	175.10	278.0	223.15	200.0	442.25	9834.0
83.00	192.0	129.05	3386.0	176.20	136.0	224.25	638.0	443.25	1792.0
85.95	203.0	130.05	274.0	177.10	157.0	227.15	477.0	443.95	76.0
91.05	168.0	135.05	309.0	179.10	532.0	229.15	175.0		

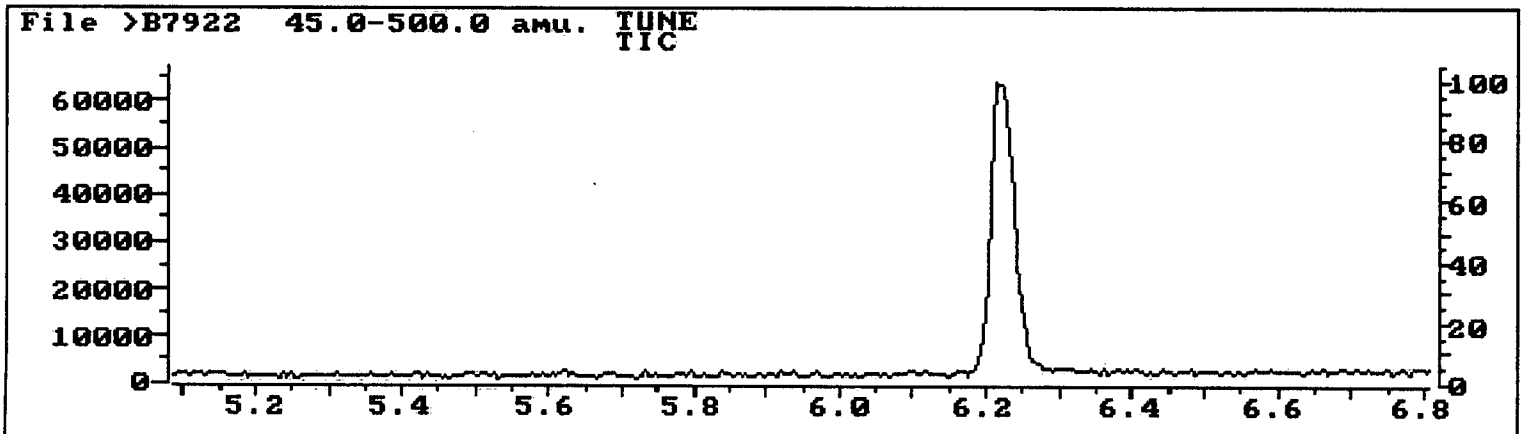
186

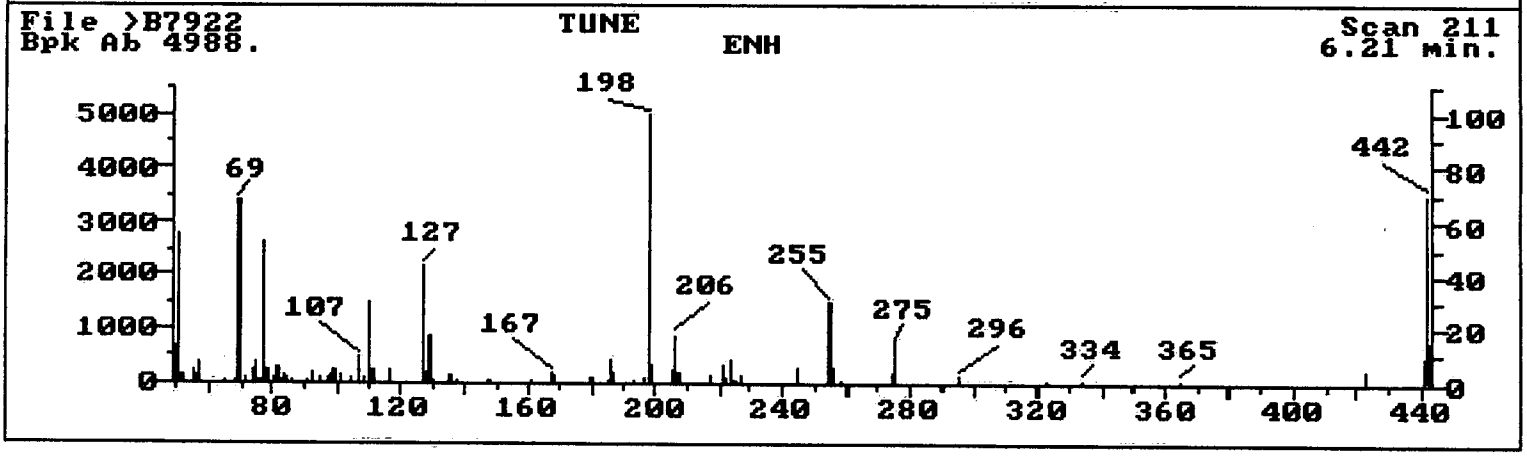
GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphospine (DFTPP)

m/z	Ion Abundance Criteria	% Relative Abundance Base Peak	Appropriate Peak	Status
51	30-60% of mass 198	55.22	55.22	Ok
68	Less than 2% of mass 69	1.06	1.56	Ok
69	(reference only)	67.58	67.58	Ok
70	Less than 2% of mass 69	0.00	0.00	Ok
127	40-60% of mass 198	43.82	43.82	Ok
197	Less than 1% of mass 198	0.00	0.00	Ok
198	Base peak, 100% relative abundance	100.00	100.00	Ok
199	5-9% of mass 198	7.08	7.08	Ok
275	10-30% of mass 198	16.06	16.06	Ok
365	Greater than 1% of mass 198	1.28	1.28	Ok
441	Less than mass 443	9.78	64.38	Ok
442	Greater than 40% of mass 198	70.11	70.11	Ok
443	17-23% of mass 442	15.20	21.67	Ok

Injection Date: 12/28/94
Injection Time: 09:11
Data File: >B7922
Scan: 211





187

>B7922 TUNE
211 ENH

File: >B7922 Scan #: 211 Retn. time: 6.21

m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.	m/z	Int.
49.10	92.33	81.10	315.00	118.05	15.67	186.10	448.67	244.05	317.00
50.10	691.00	82.00	69.33	126.95	2186.00	187.10	189.67	246.05	20.33
51.00	2754.67	83.00	150.00	127.85	173.33	193.00	44.67	255.10	1484.67
51.80	153.33	83.95	99.67	128.15	53.00	195.85	79.00	256.00	303.67
55.00	267.00	85.85	68.67	128.95	855.67	196.15	88.00	258.00	63.33
55.90	148.67	90.85	70.67	130.05	67.00	197.95	4988.33	274.00	170.67
57.00	406.33	93.05	162.33	135.05	139.00	198.95	353.33	274.40	52.67
65.00	36.00	94.95	89.67	135.85	21.33	204.95	211.67	275.00	801.00
68.10	52.67	97.05	86.33	137.05	61.00	206.15	897.67	296.10	116.67
69.00	3371.33	98.05	117.00	137.25	32.33	207.15	162.00	323.15	70.33
71.00	83.33	98.95	200.67	147.80	63.67	217.05	134.67	334.15	73.33
74.00	239.67	101.05	121.33	149.00	28.33	221.15	342.67	365.00	64.00
75.10	386.00	104.95	101.00	160.90	47.33	221.75	76.33	422.85	213.33
76.20	32.33	107.05	482.33	167.00	197.67	224.15	414.00	441.15	488.00
77.00	2612.00	108.05	108.33	167.90	147.33	225.05	59.00	442.05	3497.33
78.00	215.00	110.05	1465.67	179.10	104.00	227.05	148.33	443.05	758.00
79.00	218.67	110.95	263.33	179.90	108.00	229.05	18.00	444.15	27.67
80.10	101.67	117.05	277.00	184.80	35.00				

188

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 01:01
Output File: ^C8590::D2 Injected at: 941213 00:30
Data File: >C8590::C2 Dilution Factor: 1.00000
Name: 9417663
Misc: 9548 RFWI BB-DL-05

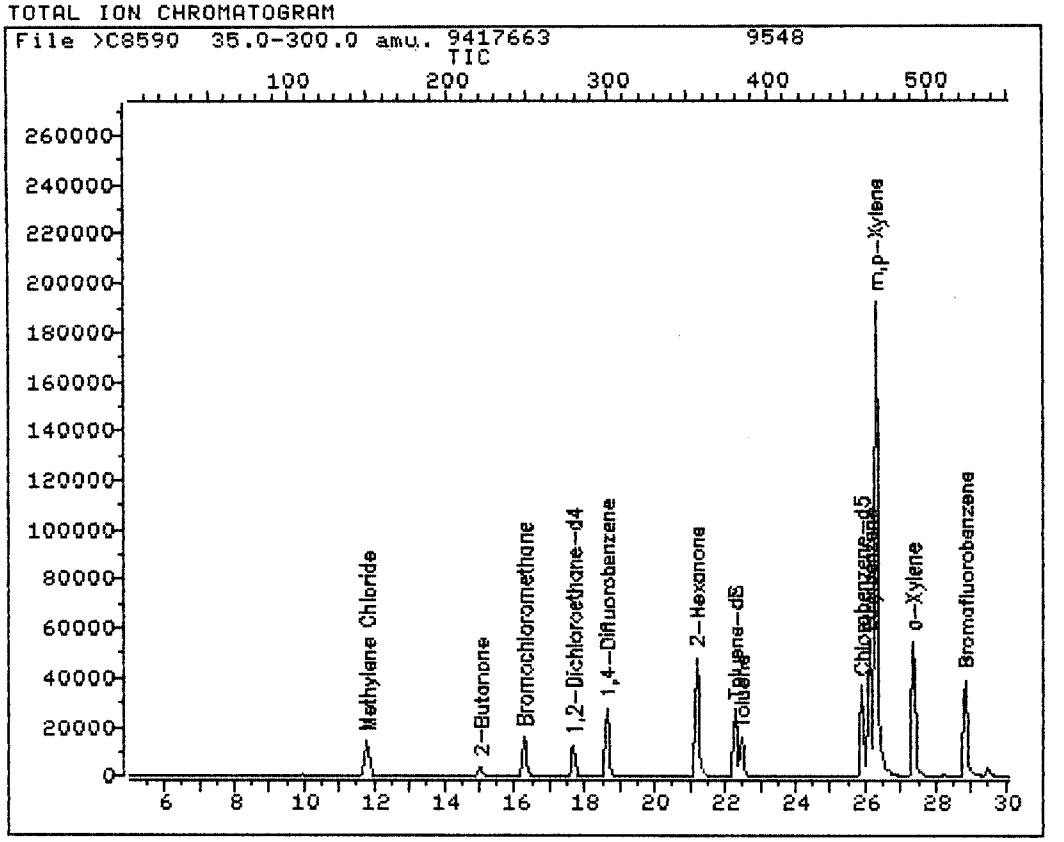
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	18336	50.00	ug/l	96
8)	Methylene Chloride	11.80	150	48675	87.98	ug/l	98
18)	1,2-Dichloroethane-d4	17.68	279	43957	54.92	ug/l	88
20)	*1,4-Difluorobenzene	18.64	300	67550	50.00	ug/l	100
21)	2-Butanone	15.04	221	28049	186.61	ug/l	80
36)	*Chlorobenzene-d5	25.89	459	55201	50.00	ug/l	100
37)	2-Hexanone	21.19	356	136858	236.04	ug/l E	94
41)	Toluene-d8	22.29	380	62043	47.07	ug/l	93
42)	Toluene	22.47	384	36013	26.56	ug/l	97
44)	Bromofluorobenzene	28.86	524	61743	54.95	ug/l	92
45)	Ethylbenzene	26.12	464	129267M	72.65	ug/l	86
47)	m,p-Xylene	26.30	468	421987	265.82	ug/l	90
48)	o-Xylene	27.35	491	127622	71.49	ug/l	89

* Compound is ISTD

338

TOTAL ION CHROMATOGRAM



Data File: >C8590::C2 Quant Output File: ^C8590::D2
Name: 9417663
Misc: 9548 RFWI BB-DL-05

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941213 01:01
Injected at: 941213 00:30

339

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417664	DILUTION FACTOR	100
DATA FILE	>D7599	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-DL-06	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/Kg	MDL	CAS #	COMPOUND	UG/Kg	MDL
107028	Acrolein	U	5000	78875	1,2-Dichloropropane	U	500
107131	Acrylonitrile	U	5000	10061015	cis-1,3-Dichloropropene	U	500
74873	Chloromethane	U	1000	79016	Trichloroethene	U	500
74839	Bromomethane	U	1000	71432	Benzene	U	500
75014	Vinyl Chloride	U	1000	124481	Dibromochloromethane	U	500
75003	Chloroethane	U	1000	79005	1,1,2-Trichloroethane	U	500
75092	Methylene Chloride	690 ~~B~~U	500	10061026	trans-1,3-Dichloropropene	U	500
67641	Acetone	U	1000	110758	2-Chloroethylvinylether	U	1000
75150	Carbon Disulfide	U	500	75252	Bromoform	U	500
75694	Trichlorofluoromethane	U	1000	591786	2-Hexanone	U	1000
75354	1,1-Dichloroethene	U	500	108101	4-Methyl-2-pentanone	U	1000
75343	1,1-Dichloroethane	U	500	127184	Tetrachloroethene	U	500
156605	trans-1,2-Dichloroethene	U	500	79345	1,1,2,2-Tetrachloroethane	U	500
67663	Chloroform	U	500	108883	Toluene	U	500
107062	1,2-Dichloroethane	U	500	108907	Chlorobenzene	U	500
78933	2-Butanone	U	1000	100414	Ethylbenzene	U	500
71556	1,1,1-Trichloroethane	U	500	100425	Styrene	U	500
56235	Carbon Tetrachloride	U	500	1330207	m,p-Xylene	U	500
108054	Vinyl Acetate	U	1000	95476	o-Xylene	U	500
75274	Bromodichloromethane	U	500	156592	cis-1,2-Dichloroethene	U	500

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	101 %	76-114	OK
Toluene-d8	93 %	88-110	OK
Bromofluorobenzene	103 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 17:13
Output File: ^D7599::D2 Injected at: 941213 16:38
Data File: >D7599::D1 Dilution Factor: 1.00000
Name: 9417664
Misc: 9548 RFWI BB-DL-06

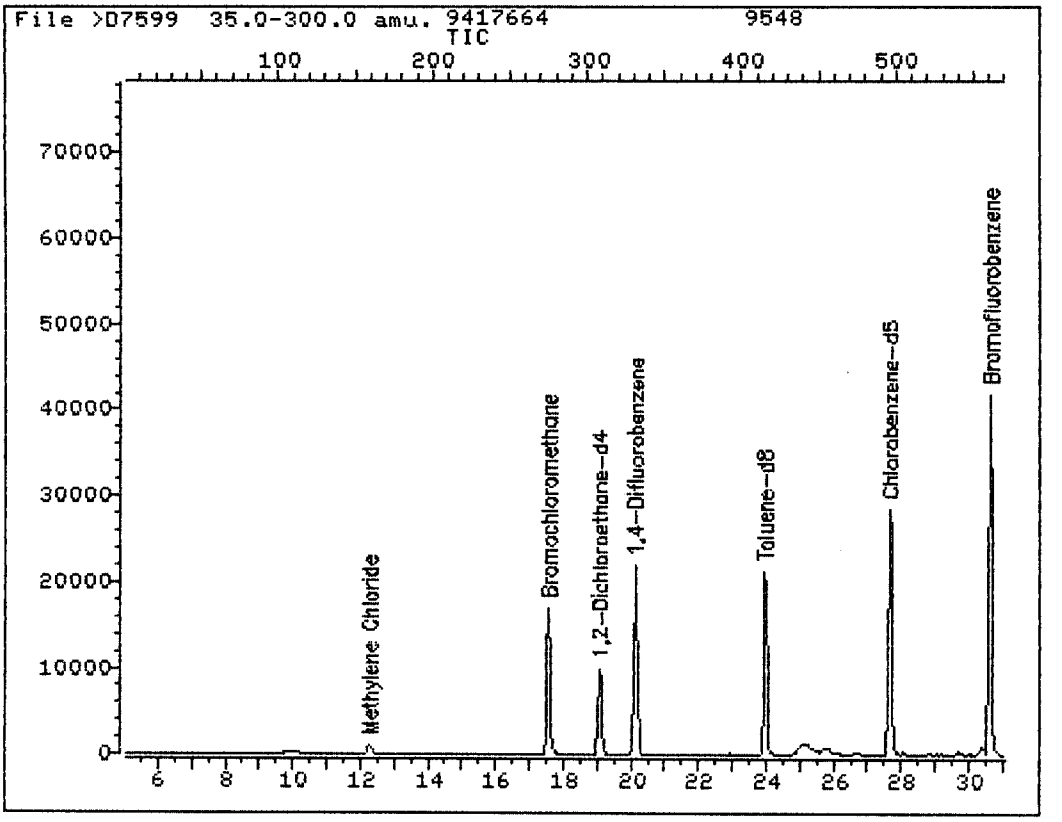
ID File: IDDA28::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941205 13:27

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	17.56	275	20587	50.00	ug/l	91
8)	Methylene Chloride	12.27	159	3869	6.91	ug/l	94
18)	1,2-Dichloroethane-d4	19.07	308	27497	50.35	ug/l	98
20)	*1,4-Difluorobenzene	20.12	331	65217	50.00	ug/l	100
36)	*Chlorobenzene-d5	27.66	496	52764	50.00	ug/l	100
41)	Toluene-d8	23.96	415	54255	46.32	ug/l	97
44)	Bromofluorobenzene	30.63	561	52675	51.71	ug/l	84

* Compound is ISTD

340

TOTAL ION CHROMATOGRAM



Data File: >D7599::D1 Quant Output File: ^D7599::D2
Name: 9417664
Misc: 9548 RFWI BB-DL-06

Id File: IDDA28::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941205 13:27

Operator ID: LARRY
Quant Time: 941213 17:13
Injected at: 941213 16:38

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417666	DILUTION FACTOR	100
DATA FILE	>D7597	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-DL-07	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/Kg	MDL	CAS #	COMPOUND	UG/Kg	MDL
107028	Acrolein	U	5000	78875	1,2-Dichloropropane	U	500
107131	Acrylonitrile	U	5000	10061015	cis-1,3-Dichloropropene	U	500
74873	Chloromethane	U	1000	79016	Trichloroethene	U	500
74839	Bromomethane	U	1000	71432	Benzene	U	500
75014	Vinyl Chloride	U	1000	124481	Dibromochloromethane	U	500
75003	Chloroethane	U	1000	79005	1,1,2-Trichloroethane	U	500
75092	Methylene Chloride	600 ~~B~~ U	500	10061026	trans-1,3-Dichloropropene	U	500
67641	Acetone	U	1000	110758	2-Chloroethylvinylether	U	1000
75150	Carbon Disulfide	U	500	75252	Bromoform	U	500
75694	Trichlorofluoromethane	U	1000	591786	2-Hexanone	U	1000
75354	1,1-Dichloroethene	U	500	108101	4-Methyl-2-pentanone	U	1000
75343	1,1-Dichloroethane	U	500	127184	Tetrachloroethene	U	500
156605	trans-1,2-Dichloroethene	U	500	79345	1,1,2,2-Tetrachloroethane	U	500
67663	Chloroform	U	500	108883	Toluene	U	500
107062	1,2-Dichloroethane	U	500	108907	Chlorobenzene	U	500
78933	2-Butanone	U	1000	100414	Ethylbenzene	U	500
71556	1,1,1-Trichloroethane	U	500	100425	Styrene	U	500
56235	Carbon Tetrachloride	U	500	1330207	m,p-Xylene	U	500
108054	Vinyl Acetate	U	1000	95476	o-Xylene	U	500
75274	Bromodichloromethane	U	500	156592	cis-1,2-Dichloroethene	U	500

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	102 %	76-114	OK
Toluene-d8	90 %	88-110	OK
Bromofluorobenzene	101 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 15:47
Output File: ^D7597::D2 Injected at: 941213 15:15
Data File: >D7597::D1 Dilution Factor: 1.00000
Name: 9417666
Misc: 9548 RFWI BB-DL-07

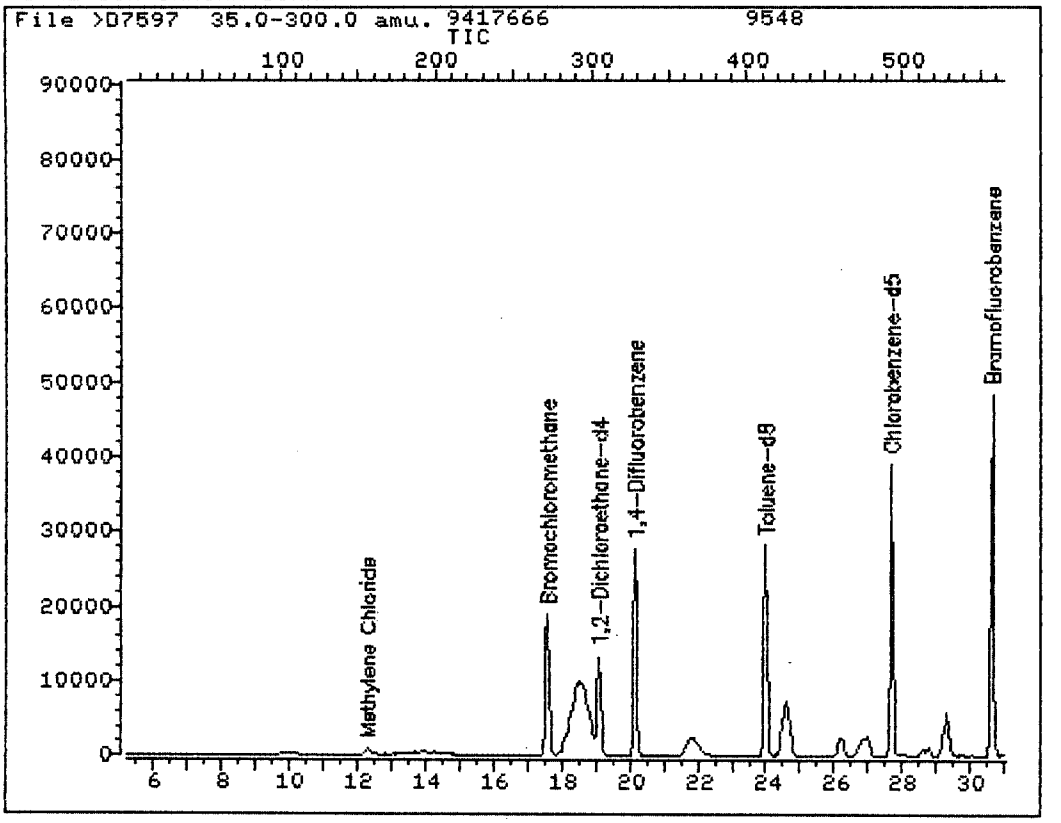
ID File: IDDA28::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941205 13:27

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	17.58	272	24196	50.00	ug/l	94
8)	Methylene Chloride	12.29	156	3922	5.96	ug/l	91
18)	1,2-Dichloroethane-d4	19.09	305	32591	50.78	ug/l	97
20)	*1,4-Difluorobenzene	20.14	328	77997	50.00	ug/l	100
36)	*Chlorobenzene-d5	27.68	493	63111	50.00	ug/l	100
41)	Toluene-d8	23.98	412	63331	45.20	ug/l	96
44)	Bromofluorobenzene	30.65	558	61264	50.28	ug/l	79

* Compound is ISTD

344

TOTAL ION CHROMATOGRAM



Data File: >D7597::D1 Quant Output File: ^D7597::D2
Name: 9417666
Misc: 9548 RFWI BB-DL-07

Id File: IDDA28::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941205 13:27

Operator ID: LARRY
Quant Time: 941213 15:47
Injected at: 941213 15:15

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417665	DILUTION FACTOR	100
DATA FILE	>D7596	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-DL-08	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/Kg	MDL	CAS #	COMPOUND	UG/Kg	MDL
107028	Acrolein	U	5000	78875	1,2-Dichloropropane	U	500
107131	Acrylonitrile	U	5000	10061015	cis-1,3-Dichloropropene	U	500
74873	Chloromethane	U	1000	79016	Trichloroethene	U	500
74839	Bromomethane	U	1000	71432	Benzene	U	500
75014	Vinyl Chloride	U	1000	124481	Dibromochloromethane	U	500
75003	Chloroethane	U	1000	79005	1,1,2-Trichloroethane	U	500
75092	Methylene Chloride	1100 BU	500	10061026	trans-1,3-Dichloropropene	U	500
67641	Acetone	U	1000	110758	2-Chloroethylvinylether	U	1000
75150	Carbon Disulfide	U	500	75252	Bromoform	U	500
75694	Trichlorofluoromethane	U	1000	591786	2-Hexanone	630 J	1000
75354	1,1-Dichloroethene	U	500	108101	4-Methyl-2-pentanone	U	1000
75343	1,1-Dichloroethane	U	500	127184	Tetrachloroethene	U	500
156605	trans-1,2-Dichloroethene	U	500	79345	1,1,2,2-Tetrachloroethane	U	500
67663	Chloroform	U	500	108883	Toluene	U	500
107062	1,2-Dichloroethane	U	500	108907	Chlorobenzene	U	500
78933	2-Butanone	U	1000	100414	Ethylbenzene	440 J	500
71556	1,1,1-Trichloroethane	U	500	100425	Styrene	U	500
56235	Carbon Tetrachloride	U	500	1330207	m,p-Xylene	2000	500
108054	Vinyl Acetate	U	1000	95476	o-Xylene	1700	500
75274	Bromodichloromethane	U	500	156592	cis-1,2-Dichloroethene	U	500

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	98 %	76-114	OK
Toluene-d8	90 %	88-110	OK
Bromofluorobenzene	102 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
B - Indicates compound found in associated blank.

QUANT REPORT

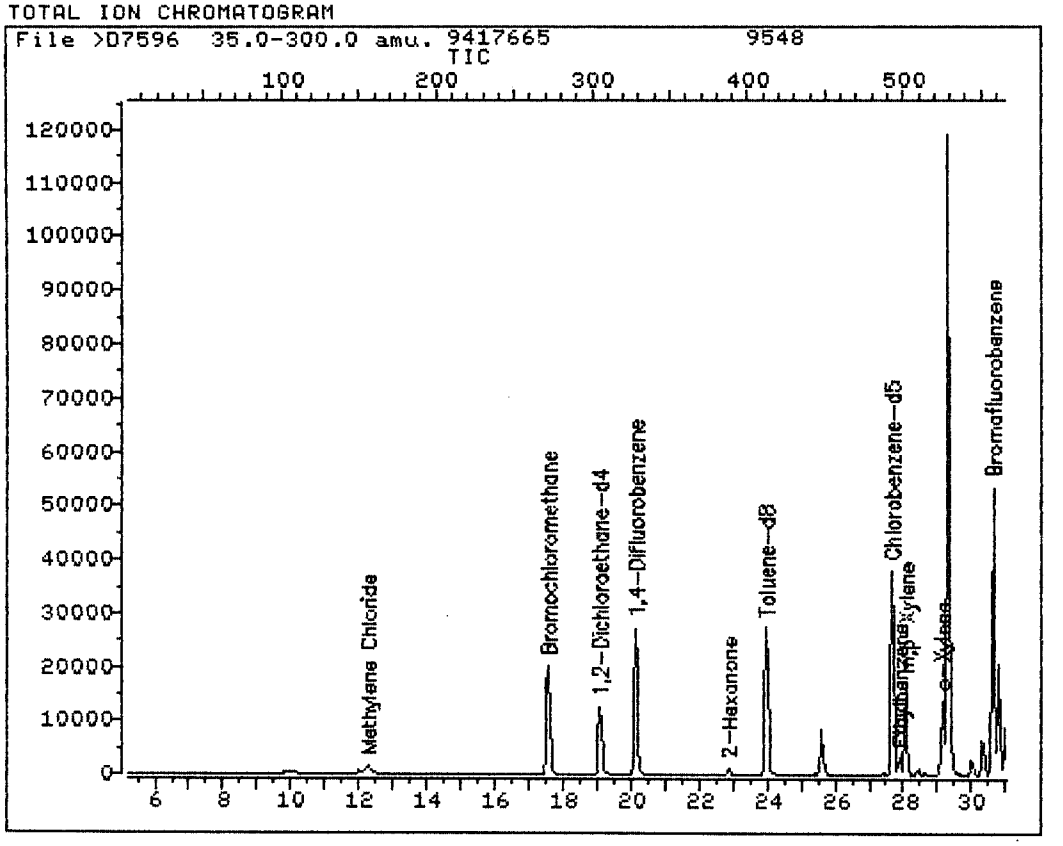
Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 15:09
Output File: ^D7596::D2 Injected at: 941213 14:37
Data File: >D7596::D1 Dilution Factor: 1.00000
Name: 9417665
Misc: 9548 RFWI BB-DL-08

ID File: IDDA28::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941205 13:27

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	17.58	272	25618	50.00	ug/l	95
8)	Methylene Chloride	12.28	156	7834	11.24	ug/l	95
18)	1,2-Dichloroethane-d4	19.08	305	33454	49.23	ug/l	97
20)	*1,4-Difluorobenzene	20.13	328	77912	50.00	ug/l	100
36)	*Chlorobenzene-d5	27.67	493	63814	50.00	ug/l	100
37)	2-Hexanone	22.87	388	4157	6.26	ug/l	87
41)	Toluene-d8	23.97	412	63874	45.09	ug/l	95
44)	Bromofluorobenzene	30.64	558	62646	50.85	ug/l	81
45)	Ethylbenzene	27.90	498	9019M	4.45	ug/l	80
47)	m,p-Xylene	28.08	502	32888	20.00	ug/l	95
48)	o-Xylene	29.13	525	31673	17.20	ug/l	98

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >D7596::D1 Quant Output File: ^D7596::D2
Name: 9417665
Misc: 9548 RFWI BB-DL-08

Id File: IDDA28::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941205 13:27

Operator ID: LARRY
Quant Time: 941213 15:09
Injected at: 941213 14:37

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Aqueous
SAMPLE NUMBER	9417667	DILUTION FACTOR	1.0
DATA FILE	>C8577	DATE EXTRACTED	
CLIENT NAME	RFWI	DATE ANALYZED	12/12/94
FIELD ID	BB-RB-01 Rinse Blank	ANALYZED BY	LARRY

CAS #	COMPOUND	UG/L	MDL	CAS #	COMPOUND	UG/L	MDL
107028	Acrolein	U	50	78875	1,2-Dichloropropane	U	5
107131	Acrylonitrile	U	50	10061015	cis-1,3-Dichloropropene	U	5
74873	Chloromethane	U	10	79016	Trichloroethene	U	5
74839	Bromomethane	U	10	71432	Benzene	U	5
75014	Vinyl Chloride	U	10	124481	Dibromochloromethane	U	5
75003	Chloroethane	U	10	79005	1,1,2-Trichloroethane	U	5
75092	Methylene Chloride	94 BW	5	10061026	trans-1,3-Dichloropropene	U	5
67641	Acetone	U J	10	110758	2-Chloroethylvinylether	U	10
75150	Carbon Disulfide	U	5	75252	Bromoform	U	5
75694	Trichlorofluoromethane	U	10	591786	2-Hexanone	U	10
75354	1,1-Dichloroethene	U	5	108101	4-Methyl-2-pentanone	U	10
75343	1,1-Dichloroethane	U	5	127184	Tetrachloroethene	U	5
156605	trans-1,2-Dichloroethene	U	5	79345	1,1,2,2-Tetrachloroethane	U	5
67663	Chloroform	U	5	108883	Toluene	U	5
107062	1,2-Dichloroethane	U	5	108907	Chlorobenzene	U	5
78933	2-Butanone	U	10	100414	Ethylbenzene	U	5
71556	1,1,1-Trichloroethane	U	5	100425	Styrene	U	5
56235	Carbon Tetrachloride	U	5	1330207	m,p-Xylene	U	5
108054	Vinyl Acetate	U	10	95476	o-Xylene	U	5
75274	Bromodichloromethane	U	5	156592	cis-1,2-Dichloroethene	U	5

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	103 %	76-114	OK
Toluene-d8	96 %	88-110	OK
Bromofluorobenzene	100 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941212 17:11
Output File: ^C8577::D2 Injected at: 941212 16:40
Data File: >C8577::C2 Dilution Factor: 1.00000
Name: 9417667
Misc: 9548 RFWI BB-RB-01

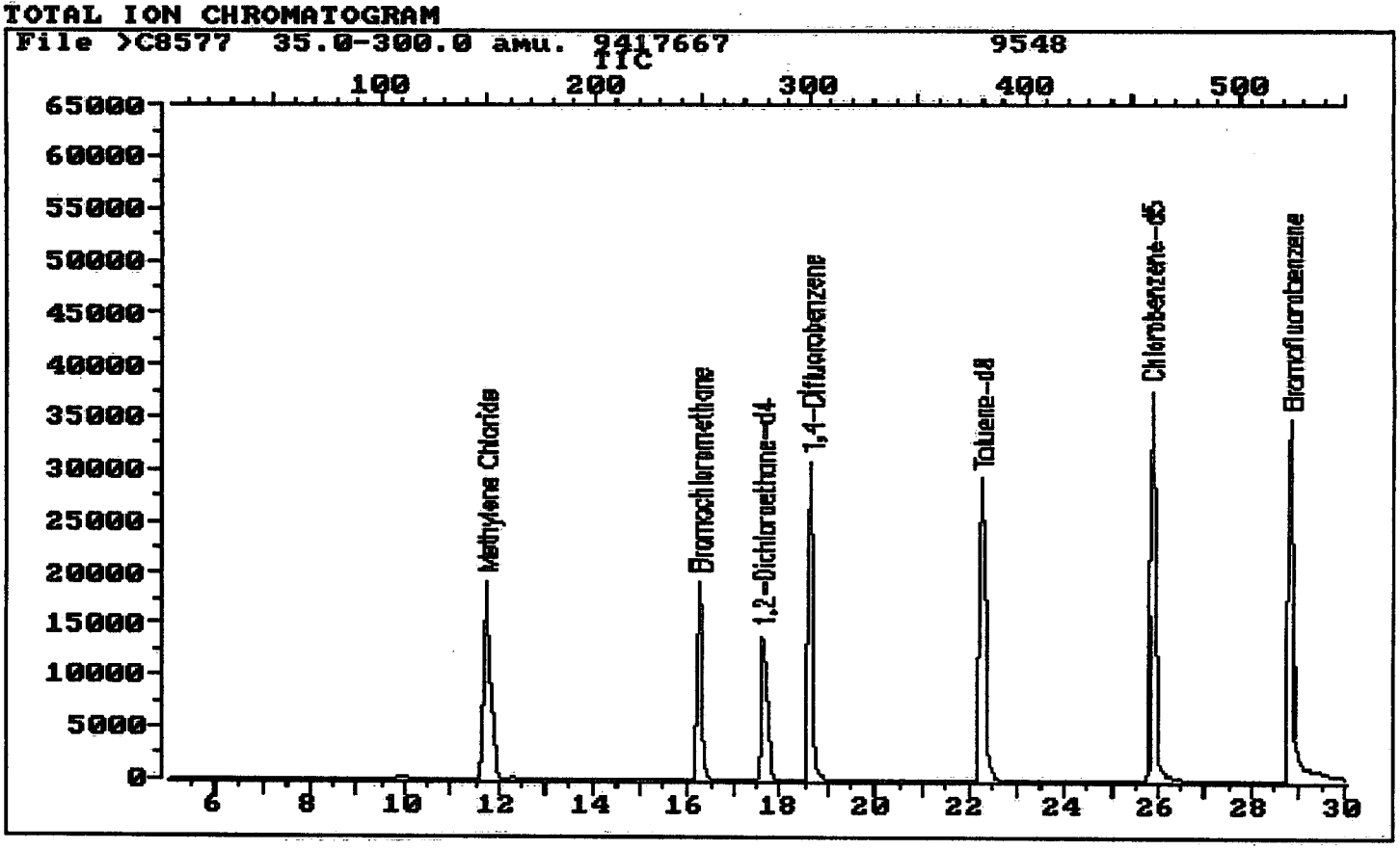
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	248	22111	50.00	ug/l	96
8)	Methylene Chloride	11.75	149	62648	93.91	ug/l	97
18)	1,2-Dichloroethane-d4	17.64	278	49483	51.27	ug/l	88
20)	*1,4-Difluorobenzene	18.64	300	79193	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	459	58691	50.00	ug/l	100
41)	Toluene-d8	22.29	380	67303	48.03	ug/l	93
44)	Bromofluorobenzene	28.85	524	59767	50.03	ug/l	94

* Compound is ISTD

346

TOTAL ION CHROMATOGRAM



Data File: >C8577::C2 Quant Output File: ^C8577::D2
Name: 9417667
Misc: 9548 RFWI BB-RB-01

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 17:11
Injected at: 941212 16:40

347

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ACCREDITED LABORATORIES, Inc. Contract: -----

Lab File ID: >C8438 BFB Injection date: 12/06/94

Instrument ID: C BFB Injection time: 8:57

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	24.0
75	30.0 - 60.0% of mass 95	54.9
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	59.5
175	5.0 - 9.0% of mass 174	4.3(7.3)1
176	95.0 - 101.0% of mass 174	56.8(95.4)1
177	5.0 - 9.0% of mass 176	4.2(7.3)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	VSTD050	>C8439	12/06/94	9:18
2	----------	DAILY BLANK	>C8440	12/06/94	10:06
3	----------	9417729	>C8441	12/06/94	10:54
4	----------	9417779	>C8442	12/06/94	11:31
5	----------	9417778	>C8443	12/06/94	12:07
6	----------	9417436	>C8444	12/06/94	13:02
7	----------	9417438	>C8445	12/06/94	13:59
8	----------	9417440	>C8446	12/06/94	14:54
9	----------	9417442	>C8447	12/06/94	15:44
10	----------	9417467	>C8448	12/06/94	17:00
11	----------	9417729	>C8449	12/06/94	17:36
12	----------	9417741	>C8450	12/06/94	18:13
13	----------	BLANK	>C8451	12/06/94	18:49
14	----------	9417669	>C8452	12/06/94	19:26
15	BB-SS-21	9417644	>C8453	12/06/94	20:02
16	----------	9417644MS	>C8454	12/06/94	20:39
17	----------	9417644MSD	>C8455	12/06/94	21:14
18	----------	9417645	>C8456	12/06/94	21:50
19	----------	9417646	>C8457	12/06/94	22:26
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21					
22					

FORM V VOA

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ACCREDITED LABORATORIES, Inc. Contract: -----

Lab File ID: >C8527 BFB Injection date: 12/09/94

Instrument ID: C BFB Injection time: 14:10

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	23.1
75	30.0 - 60.0% of mass 95	58.1
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	8.1
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	72.3
175	5.0 - 9.0% of mass 174	5.2(7.2)1
176	95.0 - 101.0% of mass 174	70.2(97.1)1
177	5.0 - 9.0% of mass 176	4.3(6.1)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	VSTD050	>C8528	12/09/94	14:32
2	----------	VSTD200	>C8529	12/09/94	15:24
3	----------	VSTD100	>C8530	12/09/94	16:00
4	----------	VSTD020	>C8531	12/09/94	16:36
5	----------	VSTD010	>C8532	12/09/94	17:12
6	----------	DAILY BLANK	>C8534	12/09/94	18:24
7	----------	9417645	>C8535	12/09/94	19:00
8	----------	9417644MSD	>C8536	12/09/94	19:36
9	----------	9417646	>C8537	12/09/94	20:12
10	----------	9417647	>C8538	12/09/94	20:49
11	----------	9417648	>C8539	12/09/94	21:25
12	----------	9417649	>C8540	12/09/94	22:02
13	----------	9417650	>C8541	12/09/94	22:38
14	----------	9417651	>C8542	12/09/94	23:13
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FORM V VOA

121

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

DAILY BL

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: 9548 SAS No.: SDG No.:

Lab File ID: >C8440 Lab Sample ID: DAILY BL

Date Analyzed: 12/06/94 Time Analyzed: 10:06

GC Column: RTX-502 ID: 0.53(mm) Heated Purge: (Y/N) Y

Instrument ID: HP5970C

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01		9417644	>C8453	20:02
02		9417644MS	>C8454	20:39
03				
04				
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COMMENTS:

165

FORM IV VOA

3/90

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

DAILY BL

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: 9548 SAS No.: SDG No.:

Lab File ID: >C8534 Lab Sample ID: DAILY BL

Date Analyzed: 12/09/94 Time Analyzed: 18:24

GC Column: RTX-502 ID: 0.53(mm) Heated Purge: (Y/N) Y

Instrument ID: HP5970C

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01		9417644MSD	>C8536	19:36
02		9417646	>C8537	20:12
03		9417647	>C8538	20:49
04		9417648	>C8539	21:25
05		9417650	>C8541	22:38
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COMMENTS:

1606

FORM IV VOA

3/90

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

DAILY BL

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: 9548 SAS No.: SDG No.:

Lab File ID: >C8552 Lab Sample ID: DAILY BL

Date Analyzed: 12/11/94 Time Analyzed: 19:51

GC Column: RTX-502 ID: 0.53(mm) Heated Purge: (Y/N) Y

Instrument ID: HP5970C

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01		9417645	>C8553	20:43
02		9417649	>C8557	23:08
03		9417652	>C8560	00:56
04		9417652MS	>C8561	01:32
05		9417652MSD	>C8562	02:07
06		9417653	>C8563	02:43
07		9417654	>C8564	03:19
08		9417656	>C8566	04:30
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COMMENTS:

167

FORM IV VOA

3/90

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

DAILY BL

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: 9548 SAS No.: SDG No.:

Lab File ID: >C8574 Lab Sample ID: DAILY BL

Date Analyzed: 12/12/94 Time Analyzed: 14:19

GC Column: RTX-502 ID: 0.53(mm) Heated Purge: (Y/N) N

Instrument ID: HP5970C

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01		9417643	>C8576	16:05
02		9417667	>C8577	16:40
03		9417652	>C8578	17:16
04		9417653	>C8579	17:52
05		9417656	>C8581	19:04
06		9417654	>C8583	20:15
07		9417657	>C8584	20:55
08		9417658	>C8585	21:31
09		9417659	>C8586	22:07
10		9417660	>C8587	22:42
11		9417661	>C8588	23:18
12		9417662	>C8589	23:54
13		9417663	>C8590	00:30
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COMMENTS:

160

FORM IV VOA

3/90

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

DAILY BL

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: 9548 SAS No.: SDG No.:

Lab File ID: >C8601 Lab Sample ID: DAILY BL

Date Analyzed: 12/13/94 Time Analyzed: 11:22

GC Column: RTX-502 ID: 0.53(mm) Heated Purge: (Y/N) Y

Instrument ID: HP5970C

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01		9417660	>C8604	14:21
02		9417662	>C8606	15:33
03		9417651	>C8607	16:08
04		9417661	>C8608	16:54
05		9417661MS	>C8609	17:30
06		9417661MSD	>C8610	18:06
07		9417651	>C8611	18:43
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COMMENTS:

169

FORM IV VOA

3/90

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

DAILY BL

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: 9548 SAS No.: SDG No.:

Lab File ID: >D7595 Lab Sample ID: DAILY BL

Date Analyzed: 12/13/94 Time Analyzed: 13:46

GC Column: RTX-502 ID: 0.53(mm) Heated Purge: (Y/N) N

Instrument ID: HP5970D

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01		9417665	>D7596	14:37
02		9417666	>D7597	15:15
03		9417655	>D7598	15:52
04		9417664	>D7599	16:38
05				
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COMMENTS:

170

FORM IV VOA

3/90

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ACCREDITED LABORATORIES, Inc. Contract: -----

Lab File ID: >C8549 BFB Injection date: 12/11/94

Instrument ID: C BFB Injection time: 17:53

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	24.8
75	30.0 - 60.0% of mass 95	58.3
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.0
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	63.7
175	5.0 - 9.0% of mass 174	5.4(8.4)1
176	95.0 - 101.0% of mass 174	62.3(97.7)1
177	5.0 - 9.0% of mass 176	4.8(7.7)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	VSTD050	>C8551	12/11/94	19:04
2	----------	DAILY BLANK	>C8552	12/11/94	19:51
3	----------	9417645	>C8553	12/11/94	20:43
4	----------	9417646	>C8554	12/11/94	21:19
5	----------	9417647	>C8555	12/11/94	21:56
6	----------	9417648	>C8556	12/11/94	22:31
7	----------	9417649	>C8557	12/11/94	23:08
8	----------	9417650	>C8558	12/11/94	23:44
9	----------	9417651	>C8559	12/12/94	0:20
10	----------	9417652	>C8560	12/12/94	0:56
11	----------	9417652MS	>C8561	12/12/94	1:32
12	----------	9417652MSD	>C8562	12/12/94	2:07
13	----------	9417653	>C8563	12/12/94	2:43
14	----------	9417654	>C8564	12/12/94	3:19
15	----------	9417655	>C8565	12/12/94	3:54
16	----------	9417656	>C8566	12/12/94	4:30
17	----------	9417657	>C8567	12/12/94	5:05
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FORM V VOA

129

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ACCREDITED LABORATORIES, Inc. Contract: -----

Lab File ID: >C8572 BFB Injection date: 12/12/94

Instrument ID: C BFB Injection time: 13:12

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	22.9
75	30.0 - 60.0% of mass 95	58.3
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.0
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	70.1
175	5.0 - 9.0% of mass 174	5.0(7.2)1
176	95.0 - 101.0% of mass 174	66.8(95.3)1
177	5.0 - 9.0% of mass 176	4.8(7.2)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	VSTD050	>C8573	12/12/94	13:32
2	----------	DAILY BLANK	>C8574	12/12/94	14:19
3	----------	9417611	>C8575	12/12/94	15:09
4	RB ----------	9417643	>C8576	12/12/94	16:05
5	----------	9417667	>C8577	12/12/94	16:40
6	----------	9417652	>C8578	12/12/94	17:16
7	----------	9417653	>C8579	12/12/94	17:52
8	----------	9417655	>C8580	12/12/94	18:28
9	----------	9417656	>C8581	12/12/94	19:04
10	----------	9417656	>C8582	12/12/94	19:40
11	----------	9417654	>C8583	12/12/94	20:15
12	----------	9417657	>C8584	12/12/94	20:55
13	----------	9417658	>C8585	12/12/94	21:31
14	----------	9417659	>C8586	12/12/94	22:07
15	----------	9417660	>C8587	12/12/94	22:42
16	----------	9417661	>C8588	12/12/94	23:18
17	----------	9417662	>C8589	12/12/94	23:54
18	----------	9417663	>C8590	12/13/94	0:30
19	----------	9417664	>C8591	12/13/94	1:06
20	----------	9417665	>C8592	12/13/94	1:42
21	----------	9417666	>C8593	12/13/94	2:18
22					

FORM V VOA

123

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ACCREDITED LABORATORIES, Inc. Contract: -----

Lab File ID: >C8598 BFB Injection date: 12/13/94

Instrument ID: C BFB Injection time: 9:18

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	22.7
75	30.0 - 60.0% of mass 95	59.2
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	60.6
175	5.0 - 9.0% of mass 174	5.2(8.7)1
176	95.0 - 101.0% of mass 174	57.8(95.4)1
177	5.0 - 9.0% of mass 176	3.0(5.1)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	VSTD050	>C8599	12/13/94	9:40
2	----------	DAILY BLANK	>C8601	12/13/94	11:22
3	----------	9417649	>C8602	12/13/94	12:11
4	----------	9417651	>C8603	12/13/94	12:59
5	----------	9417660	>C8604	12/13/94	14:21
6	----------	9417661	>C8605	12/13/94	14:57
7	----------	9417662	>C8606	12/13/94	15:33
8	----------	9417651	>C8607	12/13/94	16:08
9	----------	9417661	>C8608	12/13/94	16:54
10	----------	9417661MS	>C8609	12/13/94	17:30
11	----------	9417661MSD	>C8610	12/13/94	18:06
12	----------	9417651	>C8611	12/13/94	18:43
13	----------	9417711	>C8612	12/13/94	19:19
14	----------	9417712	>C8613	12/13/94	19:55
15	----------	9417716	>C8614	12/13/94	20:32
16	----------	9417710	>C8615	12/13/94	21:08
17					
18					
19					
20					
21					
22					

FORM V VOA

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ACCREDITED LABORATORIES, Inc. Contract: -----

Lab File ID: >D7593 BFB Injection date: 12/13/94

Instrument ID: D BFB Injection time: 12:15

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15 - 40.0% of mass 95	22.4
75	30.0 - 60.0% of mass 95	51.6
95	Base peak, 100% relative abundance	100.
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	61.6
175	5.0 - 9.0% of mass 174	4.2(6.9)1
176	95.0 - 101.0% of mass 174	60.9(98.9)1
177	5.0 - 9.0% of mass 176	4.4(7.1)2

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

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

	EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	----------	VSTD050	>D7594	12/13/94	12:38
2	----------	DAILY BLANK	>D7595	12/13/94	13:46
3	----------	9417665	>D7596	12/13/94	14:37
4	----------	9417666	>D7597	12/13/94	15:15
5	----------	9417655	>D7598	12/13/94	15:52
6	----------	9417664	>D7599	12/13/94	16:38
7	----------	9417896	>D7601	12/13/94	17:57
8	----------	9417897	>D7602	12/13/94	18:35
9	----------	9417798	>D7603	12/13/94	19:12
10	----------	9417798MS	>D7604	12/13/94	19:49
11	----------	9417798MSD	>D7605	12/13/94	20:28
12	----------	9417799	>D7606	12/13/94	21:06
13	----------	9417801	>D7607	12/13/94	21:45
14	----------	9417691	>D7608	12/13/94	22:23
15	----------	9417899	>D7609	12/13/94	23:05
16	----------	9417900	>D7610	12/13/94	23:43
17					
18					
19					
20					
21					
22					

FORM V VOA

125

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5790BD

Contractor: Accredited Labs Inc. Calibration Date: 10/17/94

Contract No: CADA28

Minimum $\overline{RF}$ for SPCC is .30 Maximum % RSD for CCC is 25%

IC=1
one on 10/17

Laboratory ID:	>D6779	>D6778	>D6777	>D6776	>D6775						
Compound	RF 10.00	RF 20.00	RF 50.00	RF 100.00	RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
Acrolein	.02936	.02749	.03000	.03370	.03058	.556	.03023	7.480			(Conc=100.0,200.0,500.0,1
Acrylonitrile	.18562	.17350	.17915	.18274	.15805	.734	.17581	6.206			(Conc=100.0,200.0,500.0,1
Chloromethane	.48248	.50248	.46497	.46147	.51796	.333	.48587	4.987		**	
Bromomethane	.93510	.98450	.97515	.96969	.82257	.410	.93740	7.132			
Vinyl Chloride	.54852	.57370	.51909	.44053	.42131	.351	.50063	13.354	*		
Chloroethane	.40853	.45584	.44798	.45875	.40820	.424	.43586	5.830			
Methylene Chloride	1.00925	1.55622	1.42666	1.47239	1.33694	.703	1.36029	15.557			
Acetone	.40319	.33208	.28621	.20411	.25755	.576	.29663	25.456			
Carbon Disulfide	1.73297	1.65062	1.71892	1.90062	1.78459	.698	1.75755	5.302			
Trichlorofluoromethane	2.60401	2.40692	2.34984	2.49995	2.38741	.470	2.44963	4.184			
1,1-Dichloroethene	1.77925	1.63317	1.62334	1.73972	1.61098	.600	1.67729	4.574	*		
1,1-Dichloroethane	2.09187	1.90275	1.92450	2.01262	1.85993	.841	1.95834	4.756		**	
T-butyl alcohol	.08762	.08038	.08369	.08750	.07439	.631	.08271	6.693			(Conc=100.0,200.0,500.0,1
cis-1,2-Dichloroethene	1.59041	1.50940	1.51229	1.59788	1.47522	.950	1.53704	3.526			
trans-1,2-Dichloroethene	1.72190	1.59873	1.58904	1.68449	1.52092	.759	1.62302	4.941			
Chloroform	2.79107	2.48912	2.50491	2.65040	2.38037	.976	2.56317	6.225	*		
1,2-Dichloroethane-d4	1.66317	1.44804	1.42258	1.47766	1.38569	1.089	1.47943	7.309			
1,2-Dichloroethane	1.79170	1.60652	1.58452	1.65089	1.51633	1.102	1.62999	6.296			
2-Butanone	.18562	.14824	.14496	.12366	.14409	.807	.14931	15.066			
Methyl t-butyl ether	.56334	.49184	.49605	.51084	.40617	.645	.49365	11.465			(Conc=100.0,200.0,500.0,1
1,1,1-Trichloroethane	.82491	.71813	.74985	.78216	.72573	.905	.76016	5.785			
Carbon Tetrachloride	.79386	.71608	.75562	.79202	.74158	.939	.75983	4.394			
Vinyl Acetate	.27504	.23713	.28481	.32312	.30527	.742	.28508	11.441			
Bromodichloromethane	1.02627	.92609	.95130	.99294	.93068	1.093	.96545	4.459			
1,2-Dichloropropane	.41173	.37995	.38993	.40450	.37487	1.064	.39220	4.007	*		
cis-1,3-Dichloropropene	.56184	.51861	.54823	.58597	.54717	1.161	.55237	4.437			(Conc=10.6,21.2,53.0,106.
Trichloroethene	.42691	.40534	.40958	.42412	.39327	1.041	.41184	3.369			
Benzene	.87045	.78346	.79443	.82145	.76253	.964	.80646	5.159			
Dibromochloromethane	.85409	.76763	.84048	.86448	.79124	1.305	.82358	5.103			
1,1,2-Trichloroethane	.40757	.35818	.37534	.38336	.34599	1.241	.37409	6.342			

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

138

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5790BD

Contractor: Accredited Labs Inc. Calibration Date: 10/17/94

Contract No: CADA28

Minimum $\overline{RF}$ for SPCC is .30 Maximum % RSD for CCC is 25%

Laboratory ID:	>D6779	>D6778	>D6777	>D6776	>D6775						
	RF	RF	RF	RF	RF						
Compound	10.00	20.00	50.00	100.00	200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
trans-1,3-Dichloropropene	.63356	.58482	.61822	.66078	.61702	1.161	.62288	4.437			(Conc=9.4,18.8,47.0,94.0,
2-Chloroethylvinylether	.04686	.06344	.07359	.03083	.10715	1.133	.06438	44.938			
Bromoform	.54641	.51039	.57895	.58846	.54525	1.494	.55389	5.598		**	
2-Hexanone	.59422	.51818	.50767	.47632	.50445	.826	.52017	8.497			
4-Methyl-2-pentanone	.34243	.35427	.31029	.28400	.30502	.904	.31920	8.983			
Tetrachloroethene	.68706	.62743	.61525	.64508	.59607	.929	.63418	5.446			
1,1,2,2-Tetrachloroethane	.93748	.85327	.87464	.89305	.80821	1.099	.87333	5.476		**	
Toluene-d8	1.26679	1.15491	1.15069	1.19682	1.10096	.866	1.17403	5.280			
Toluene	1.38567	1.23710	1.21134	1.28117	1.15356	.873	1.25377	6.938	*		
Chlorobenzene	1.06627	.98801	.96237	1.02073	.94244	1.003	.99596	4.922		**	
Bromofluorobenzene	1.14827	1.02980	1.02542	1.06884	1.00197	1.106	1.05486	5.449			
Ethylbenzene	1.70635	1.53316	1.53362	1.67841	1.49118	1.007	1.58855	6.097	*		
Styrene	.94289	.88421	.90481	.98449	.89383	1.056	.92205	4.491			
m,p-Xylene	1.39131	1.28446	1.28014	1.27653	1.21108	1.014	1.28871	5.028			(Conc=20.0,40.0,100.0,200
o-Xylene	1.58775	1.39367	1.41704	1.46663	1.34878	1.053	1.44277	6.343			

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5790BC

Contractor: Accredited Labs Calibration Date: 12/02/94

Contract No: CACS38

Minimum $\overline{RF}$ for SPCC is .3 Maximum % RSD for CCC is 25.0%

IC-2

Gas on 12/2/94

Laboratory ID:	>C8367	>C8366	>C8365	>C8364	>C8363						
Compound	RF 10.00	RF 20.00	RF 50.00	RF 100.00	RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
Acrolein	.16134	.15866	.16273	.17744	.18284	.591	.16860	6.409			(Conc=100.0,200.0,500.0,1
Acrylonitrile	.17448	.17018	.16958	.17598	.18200	.745	.17444	2.885			(Conc=100.0,200.0,500.0,1
Chloromethane	.50683	.46609	.43591	.49530	.52925	.350	.48668	7.476		**	
Bromomethane	.94710	.95509	.84842	.90770	.94406	.444	.92047	4.803			
Vinyl Chloride	.52902	.57085	.51122	.50241	.51253	.365	.52520	5.191	*		
Chloroethane	.52844	.56346	.51119	.54962	.61634	.452	.55381	7.268			
Methylene Chloride	2.11995	1.79791	1.58472	1.66856	1.67625	.720	1.76948	11.876			
Acetone	.37947	.38953	.27297	.34856	.33917	.607	.34594	13.249			
Carbon Disulfide	1.59540	1.68184	1.70915	1.93893	2.07749	.717	1.80056	11.121			
Trichlorofluoromethane	4.07336	3.89422	3.63045	3.90631	4.29085	.505	3.95904	6.163			
1,1-Dichloroethene	2.42163	2.34958	2.21649	2.37629	2.65865	.629	2.40453	6.707	*		
1,1-Dichloroethane	2.63931	2.57094	2.36472	2.57123	2.68084	.851	2.56541	4.739		**	
T-butyl alcohol	.06865	.06562	.06710	.07010	.07078	.654	.06845	3.104			(Conc=100.0,200.0,500.0,1
cis-1,2-Dichloroethene	1.99346	1.90212	1.85030	1.97494	2.02080	.951	1.94832	3.606			
trans-1,2-Dichloroethene	2.25638	2.22870	2.09455	2.27272	2.39163	.777	2.24880	4.728			
Chloroform	3.47116	3.26415	3.10606	3.33224	3.46181	.976	3.32709	4.552	*		
1,2-Dichloroethane-d4	2.22584	2.00992	1.86461	1.96970	2.02013	1.085	2.01804	6.514			
1,2-Dichloroethane	2.51815	2.39748	2.26263	2.37019	2.46242	1.099	2.40217	4.036			
2-Butanone	.10432	.11574	.10782	.11293	.11008	.806	.11018	4.020			
Methyl t-butyl ether	.62350	.59119	.57161	.55439	.51777	.662	.57169	6.926			(Conc=100.0,200.0,500.0,1
1,1,1-Trichloroethane	.99017	.93509	.88690	.95778	.98597	.908	.95118	4.450			
Carbon Tetrachloride	.90967	.88603	.85732	.92572	.96876	.943	.90950	4.615			
Vinyl Acetate	.21648	.22578	.25674	.27161	.26387	.748	.24690	9.853			
Bromodichloromethane	.85890	.85709	.84419	.94013	.92520	1.095	.88510	4.983			
1,2-Dichloropropane	.36026	.33718	.32262	.34782	.35064	1.065	.34370	4.181	*		
cis-1,3-Dichloropropene	.48258	.49218	.48863	.54631	.53487	1.164	.50892	5.777			(Conc=10.6,21.2,53.0,106.
Trichloroethene	.42534	.41397	.39130	.41999	.44216	1.043	.41855	4.420			
Benzene	.90029	.84702	.80995	.85783	.87100	.962	.85722	3.862			
Dibromochloromethane	.59505	.63870	.62594	.69715	.68336	1.314	.64804	6.475			
1,1,2-Trichloroethane	.28677	.28145	.26572	.28346	.26712	1.247	.27690	3.527			

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5790BC

Contractor: Accredited Labs Calibration Date: 12/02/94

Contract No: CACS38

Minimum $\overline{RF}$ for SPCC is .3 Maximum % RSD for CCC is 25.0%

Laboratory ID:	>C8367	>C8366	>C8365	>C8364	>C8363						
Compound	RF 10.00	RF 20.00	RF 50.00	RF 100.00	RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
trans-1,3-Dichloropropene	.43686	.46507	.47688	.52422	.52929	1.227	.48646	8.139			(Conc=9.4,18.8,47.0,94.0,
2-Chloroethylvinylether	.06256	.07667	.08869	.11302	.12892	1.134	.09397	28.644			
Bromoform	.34854	.40730	.42158	.48553	.47981	1.515	.42855	13.188		**	
2-Hexanone	.36537	.41099	.41053	.45970	.48595	.819	.42651	11.040			
4-Methyl-2-pentanone	.16379	.20988	.20204	.26402	.26091	.899	.22013	19.269			
Tetrachloroethene	.75290	.70752	.66147	.70077	.70712	.928	.70595	4.597			
1,1,2,2-Tetrachloroethane	.55806	.55233	.53580	.55984	.52562	1.105	.54633	2.739		**	
Toluene-d8	1.31920	1.25700	1.16540	1.25780	1.28017	.861	1.25591	4.503			
Toluene	1.43822	1.35154	1.29186	1.36550	1.39528	.868	1.36848	3.960	*		
Chlorobenzene	1.00211	.97087	.93100	.98176	.99245	1.004	.97564	2.824		**	
Bromofluorobenzene	.89617	.88409	.86793	.97489	1.00178	1.114	.92497	6.429			
Ethylbenzene	1.90161	1.79067	1.68554	1.77558	1.79014	1.009	1.78871	4.291	*		
Styrene	.75796	.81469	.81064	.91481	.95947	1.060	.85152	9.727			
m,p-Xylene	1.61493	1.56980	1.47878	1.59999	1.61901	1.016	1.57650	3.675			(Conc=20.0,40.0,100.0,200
o-Xylene	1.69695	1.61546	1.51545	1.61088	1.62085	1.057	1.61192	4.000			

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5790BC

Contractor: Accredited Labs Calibration Date: 12/08/94

Contract No: CACA43

Minimum $\overline{RF}$ for SPCC is .3 Maximum % RSD for CCC is 25.0%

IC-3

Laboratory ID: >C8499 >C8498 >C8497 >C8496 >C8495

Compound	RF 10.00	RF 20.00	RF 50.00	RF 100.00	RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
Acrolein	.13410	.14624	.16433	.17400	.17258	.590	.15825	11.027			(Conc=100.0,200.0,500.0,1
Acrylonitrile	.16923	.16353	.17750	.18290	.18503	.744	.17564	5.187			(Conc=100.0,200.0,500.0,1
Chloromethane	.51948	.67921	.69238	.73919	.78115	.357	.68228	14.588		**	
Bromomethane	.90158	.95533	1.00480	1.03600	1.10331	.445	1.00021	7.691			
Vinyl Chloride	.54742	.63231	.65644	.65419	.65488	.374	.62905	7.424	*		
Chloroethane	.39739	.45835	.51138	.54941	.59436	.461	.50218	15.333			
Methylene Chloride	1.69056	1.47785	1.42127	1.46626	1.48688	.720	1.50856	6.948			
Acetone	.21187	.21636	.24526	.26982	.34228	.606	.25712	20.638			
Carbon Disulfide	1.14543	1.27988	1.43600	1.60152	1.67587	.717	1.42774	15.401			
Trichlorofluoromethane	3.15976	3.16564	3.26054	3.52719	3.72753	.505	3.36813	7.429			
1,1-Dichloroethene	1.91262	1.90391	1.97879	2.10539	2.19013	.627	2.01817	6.215	*		
1,1-Dichloroethane	2.12730	2.06510	2.16775	2.27027	2.33394	.851	2.19287	4.951		**	
T-butyl alcohol	.06577	.06761	.07955	.08014	.07938	.654	.07449	9.604			(Conc=100.0,200.0,500.0,1
cis-1,2-Dichloroethene	1.74801	1.68345	1.77425	1.84308	1.90386	.952	1.79053	4.767			
trans-1,2-Dichloroethene	1.74941	1.75798	1.86236	1.95883	2.01104	.777	1.86793	6.272			
Chloroform	2.89308	2.87233	3.04804	3.12362	3.22435	.977	3.03228	4.959	*		
1,2-Dichloroethane-d4	2.25484	2.10454	2.14309	2.18124	2.22910	1.087	2.18256	2.809			
1,2-Dichloroethane	2.47005	2.37720	2.47072	2.53478	2.62464	1.101	2.49548	3.666			
2-Butanone	.08183	.09724	.11323	.12555	.13844	.806	.11126	20.146			
Methyl t-butyl ether	.66469	.59446	.63567	.61996	.58982	.660	.62092	4.965			(Conc=100.0,200.0,500.0,1
1,1,1-Trichloroethane	.90263	.88218	.93423	.95804	.99397	.908	.93421	4.740			
Carbon Tetrachloride	.86860	.85880	.92339	.96718	1.01695	.942	.92699	7.192			
Vinyl Acetate	.26425	.26948	.30697	.32662	.34141	.746	.30175	11.319			
Bromodichloromethane	.84922	.86894	.95966	1.00120	1.05303	1.094	.94641	9.149			
1,2-Dichloropropane	.34869	.32894	.34200	.34706	.35119	1.064	.34358	2.574	*		
cis-1,3-Dichloropropene	.46648	.47266	.53465	.56217	.58355	1.164	.52390	10.037			(Conc=10.6,21.2,53.0,106.
Trichloroethene	.38478	.37764	.40071	.41365	.42110	1.042	.39958	4.619			
Benzene	.76087	.73601	.77223	.78368	.80651	.962	.77186	3.395			
Dibromochloromethane	.62826	.66492	.76878	.80021	.83653	1.314	.73974	12.071			
1,1,2-Trichloroethane	.29031	.28098	.31330	.31276	.31581	1.247	.30263	5.253			

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

142

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5790BC

Contractor: Accredited Labs Calibration Date: 12/08/94

Contract No: CACA43

Minimum $\overline{RF}$ for SPCC is .3 Maximum % RSD for CCC is 25.0%

Laboratory ID:	>C8499	>C8498	>C8497	>C8496	>C8495						
Compound	RF 10.00	RF 20.00	RF 50.00	RF 100.00	RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
trans-1,3-Dichloropropene	.46675	.48111	.56690	.60853	.63656	1.227	.55197	13.696			(Conc=9.4,18.8,47.0,94.0,
2-Chloroethylvinylether	.08013	.08176	.11804	.13935	.16064	1.133	.11598	30.487			
Bromoform	.37959	.42561	.53887	.57963	.59373	1.516	.50349	19.002		**	
2-Hexanone	.46936	.45943	.54433	.56740	.58542	.819	.52519	10.945			
4-Methyl-2-pentanone	.15880	.17384	.24080	.26792	.31113	.898	.23050	27.745			
Tetrachloroethene	.65159	.64808	.67168	.68650	.68567	.928	.66870	2.729			
1,1,2,2-Tetrachloroethane	.58041	.56821	.62384	.63730	.61510	1.106	.60497	4.861		**	
Toluene-d8	1.18667	1.14037	1.20340	1.21397	1.22502	.861	1.19389	2.772			
Toluene	1.21341	1.18810	1.23673	1.24282	1.25951	.868	1.22811	2.264	*		
Chlorobenzene	.90306	.86277	.94856	.97540	.97736	1.004	.93343	5.312		**	
Bromofluorobenzene	.89138	.92584	1.03039	1.10652	1.13442	1.114	1.01771	10.545			
Ethylbenzene	1.55195	1.48963	1.66329	1.66958	1.68431	1.009	1.61175	5.351	*		
Styrene	.75483	.79285	.91564	.96625	.99824	1.060	.88556	12.083			
m,p-Xylene	1.41913	1.37110	1.42293	1.48540	1.49096	1.016	1.43790	3.496			(Conc=20.0,40.0,100.0,200
o-Xylene	1.64635	1.60820	1.57539	1.63616	1.61866	1.057	1.61695	1.705			

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5790BC

Contractor: Accredited Labs Calibration Date: 12/09/94

Contract No: CACS39

Minimum $\overline{RF}$ for SPCC is .3 Maximum % RSD for CCC is 25.0%

IC-4

ON Con 12/9/13

Laboratory ID:	>C8532	>C8531	>C8528	>C8530	>C8529						
Compound	RF 10.00	RF 20.00	RF 50.00	RF 100.00	RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
Acrolein	.12735	.13580	.13037	.14435	.13960	.587	.13549	5.058			(Conc=100.0,200.0,500.0,1
Acrylonitrile	.14037	.15669	.14773	.15601	.14813	.741	.14979	4.502			(Conc=100.0,200.0,500.0,1
Chloromethane	.60981	.64203	.72577	.72551	.74060	.345	.68874	8.535		**	
Bromomethane	1.18257	1.06616	1.13713	1.12465	1.17207	.438	1.13652	4.051			
Vinyl Chloride	.73130	.69344	.74370	.70778	.71030	.362	.71731	2.790	*		
Chloroethane	.53173	.54366	.63542	.59633	.63020	.447	.58747	8.177			
Methylene Chloride	2.15189	1.71075	1.50582	1.46225	1.42289	.719	1.65072	18.254			
Acetone	.36149	.26059	.27466	.29724	.27469	.604	.29373	13.648			
Carbon Disulfide	1.47033	1.46809	1.63539	1.62570	1.73118	.714	1.58614	7.214			
Trichlorofluoromethane	3.49637	3.48429	3.51674	3.39752	3.52296	.501	3.48358	1.451			
1,1-Dichloroethene	2.20342	2.14673	2.11506	2.10174	2.15398	.625	2.14419	1.845	*		
1,1-Dichloroethane	2.45650	2.40428	2.35610	2.33333	2.35316	.850	2.38068	2.091		**	
T-butyl alcohol	.06732	.06203	.06215	.06811	.05945	.651	.06381	5.853			(Conc=100.0,200.0,500.0,1
cis-1,2-Dichloroethene	1.94954	1.90275	1.86619	1.92726	1.89538	.951	1.90822	1.664			
trans-1,2-Dichloroethene	2.15229	2.04257	2.01167	2.04716	2.04495	.775	2.05973	2.608			
Chloroform	3.37152	3.21280	3.17593	3.23916	3.23636	.975	3.24715	2.279	*		
1,2-Dichloroethane-d4	2.24920	2.02920	1.93372	2.02805	1.94680	1.087	2.03739	6.207			
1,2-Dichloroethane	2.53934	2.37611	2.23292	2.35808	2.27686	1.101	2.35666	4.995			
2-Butanone	.09044	.10298	.10113	.11724	.09547	.806	.10145	9.964			
Methyl t-butyl ether	.63482	.61907	.55824	.57612	.50924	.659	.57950	8.640			(Conc=100.0,200.0,500.0,1
1,1,1-Trichloroethane	.96668	.92062	.91727	.93107	.90038	.907	.92720	2.661			
Carbon Tetrachloride	.91908	.90630	.90051	.93623	.90958	.942	.91434	1.527			
Vinyl Acetate	.21472	.23310	.23624	.26901	.25291	.745	.24120	8.552			
Bromodichloromethane	.83692	.85963	.84395	.92039	.90089	1.094	.87235	4.191			
1,2-Dichloropropane	.32857	.32457	.31193	.32780	.31785	1.066	.32214	2.205	*		
cis-1,3-Dichloropropene	.45837	.48005	.47319	.52008	.49833	1.165	.48600	4.909			(Conc=10.6,21.2,53.0,106.
Trichloroethene	.41394	.41051	.40945	.41579	.41008	1.043	.41195	.671			
Benzene	.80591	.77411	.77676	.78466	.75597	.963	.77948	2.326			
Dibromochloromethane	.60488	.63706	.64586	.71825	.67873	1.315	.65696	6.574			
1,1,2-Trichloroethane	.27410	.26945	.25828	.27668	.25545	1.248	.26679	3.552			

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

144

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5790BC

Contractor: Accredited Labs Calibration Date: 12/09/94

Contract No: CACS39

Minimum $\overline{RF}$ for SPCC is .3 Maximum % RSD for CCC is 25.0%

Laboratory ID:	>C8532	>C8531	>C8528	>C8530	>C8529						
Compound	RF 10.00	RF 20.00	RF 50.00	RF 100.00	RF 200.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC	
trans-1,3-Dichloropropene	.39880	.47031	.46827	.52989	.51565	1.228	.47658	10.765			(Conc=9.4,18.8,47.0,94.0,
2-Chloroethylvinylether	.05457	.07591	.07898	.11034	.11595	1.134	.08715	29.376			
Bromoform	.35921	.41043	.43730	.50694	.46617	1.518	.43601	12.819		**	
2-Hexanone	.38175	.42554	.36538	.44227	.42625	.819	.40824	8.051			
4-Methyl-2-pentanone	.13722	.17872	.18944	.24325	.22432	.899	.19459	21.221			
Tetrachloroethene	.76364	.72186	.71742	.68873	.69521	.928	.71737	4.107			
1,1,2,2-Tetrachloroethane	.51403	.51862	.48887	.53063	.47912	1.105	.50626	4.243		**	
Toluene-d8	1.27852	1.23054	1.19364	1.19236	1.19810	.860	1.21863	3.033			
Toluene	1.32113	1.22236	1.22866	1.22173	1.23059	.867	1.24489	3.437	*		
Chlorobenzene	.96880	.95979	.93576	.94436	.93835	1.004	.94941	1.506		**	
Bromofluorobenzene	.94665	.91884	.96041	1.02532	1.02196	1.114	.97464	4.842			
Ethylbenzene	1.62852	1.60036	1.62370	1.60769	1.72005	1.009	1.63606	2.954	*		
Styrene	.77239	.82163	.90738	.90394	.93435	1.060	.86794	7.843			
m,p-Xylene	1.55222	1.50941	1.44604	1.46122	1.37725	1.016	1.46923	4.510			(Conc=20.0,40.0,100.0,200
o-Xylene	1.87249	1.64209	1.54756	1.58088	1.52489	1.058	1.63358	8.610			

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

145

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/06/94

Contractor: Accredited Labs Time: 09:18

Contract No: CACS38 Laboratory ID: >C8439

Instrument ID: HP5790BC Initial Calibration Date: 12/02/94

IC-2
CC-1

Minimum $\overline{RF}$ for SPCC is .3 Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Acrolein	.16860	.14023	16.83			(Conc=500.00)
Acrylonitrile	.17444	.14542	16.64			(Conc=500.00)
Chloromethane	.48668	.63101	29.66		**	
Bromomethane	.92047	.92901	.93			
Vinyl Chloride	.52520	.61367	16.84	*		
Chloroethane	.55381	.49993	9.73			
Methylene Chloride	1.76948	1.41348	20.12			
Acetone	.34594	.26762	22.64			
Carbon Disulfide	1.80056	1.39288	22.64			
Trichlorofluoromethane	3.95904	3.24492	18.04			
1,1-Dichloroethene	2.40453	1.95845	18.55	*		
1,1-Dichloroethane	2.56541	2.16758	15.51		**	
T-butyl alcohol	.06845	.06453	5.72			(Conc=500.00)
cis-1,2-Dichloroethene	1.94832	1.71088	12.19			
trans-1,2-Dichloroethene	2.24880	1.91955	14.64			
Chloroform	3.32709	2.99234	10.06	*		
1,2-Dichloroethane-d4	2.01804	1.86778	7.45			
1,2-Dichloroethane	2.40217	2.27612	5.25			
2-Butanone	.11018	.10040	8.88			
Methyl t-butyl ether	.57169	.50820	11.11			(Conc=500.00)
1,1,1-Trichloroethane	.95118	.88819	6.62			
Carbon Tetrachloride	.90950	.85448	6.05			
Vinyl Acetate	.24690	.22413	9.22			
Bromodichloromethane	.88510	.86364	2.42			
1,2-Dichloropropane	.34370	.30255	11.97	*		
cis-1,3-Dichloropropene	.50892	.46876	7.89			(Conc=53.00)
Trichloroethene	.41855	.36873	11.90			
Benzene	.85722	.73548	14.20			
Dibromochloromethane	.64804	.61588	4.96			
1,1,2-Trichloroethane	.27690	.24685	10.85			
trans-1,3-Dichloropropene	.48646	.47967	1.40			(Conc=47.00)
2-Chloroethylvinylether	.09397	.08380	10.82			

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

146

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/06/94

Contractor: Accredited Labs Time: 09:18

Contract No: CACS38 Laboratory ID: >C8439

Instrument ID: HP5790BC Initial Calibration Date: 12/02/94

Minimum $\overline{RF}$ for SPCC is .3 Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Bromoform	.42855	.42959	.24		**	
2-Hexanone	.42651	.40587	4.84			
4-Methyl-2-pentanone	.22013	.19527	11.29			
Tetrachloroethene	.70595	.64522	8.60			
1,1,2,2-Tetrachloroethane	.54633	.52267	4.33		**	
Toluene-d8	1.25591	1.13865	9.34			
Toluene	1.36848	1.21602	11.14	*		
Chlorobenzene	.97564	.89852	7.90		**	
Bromofluorobenzene	.92497	.97385	5.28			
Ethylbenzene	1.78871	1.56479	12.52	*		
Styrene	.85152	.86936	2.10			
m,p-Xylene	1.57650	1.51860	3.67			(Conc=100.00)
o-Xylene	1.61192	1.51775	5.84			

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

147

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/11/94

Contractor: Accredited Labs Time: 19:04

Contract No: CAC539 Laboratory ID: >C8551

Instrument ID: HP5790BC Initial Calibration Date: 12/09/94

IC-4
CC-2

Minimum $\overline{RF}$ for SPCC is .3 Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Acrolein	.13549	.14222	4.96			(Conc=500.00)
Acrylonitrile	.14979	.16665	11.26			(Conc=500.00)
Chloromethane	.68874	.79737	15.77		**	
Bromomethane	1.13652	1.24251	9.33			
Vinyl Chloride	.71731	.75724	5.57	*		
Chloroethane	.58747	.67776	15.37			
Methylene Chloride	1.65072	1.78792	8.31			
Acetone	.29373	.34037	15.88			
Carbon Disulfide	1.58614	1.64096	3.46			
Trichlorofluoromethane	3.48358	4.24805	21.95			
1,1-Dichloroethene	2.14419	2.47601	15.48	*		
1,1-Dichloroethane	2.38068	2.70961	13.82		**	
T-butyl alcohol	.06381	.06278	1.62			(Conc=500.00)
cis-1,2-Dichloroethene	1.90822	2.23360	17.05			
trans-1,2-Dichloroethene	2.05973	2.35434	14.30			
Chloroform	3.24715	3.80085	17.05	*		
1,2-Dichloroethane-d4	2.03739	2.54388	24.86			
1,2-Dichloroethane	2.35666	2.91047	23.50			
2-Butanone	.10145	.11567	14.02			
Methyl t-butyl ether	.57950	.63941	10.34			(Conc=500.00)
1,1,1-Trichloroethane	.92720	1.05441	13.72			
Carbon Tetrachloride	.91434	1.05532	15.42			
Vinyl Acetate	.24120	.25545	5.91			
Bromodichloromethane	.87235	1.00145	14.80			
1,2-Dichloropropane	.32214	.36156	12.24	*		
cis-1,3-Dichloropropene	.48600	.52941	8.93			(Conc=53.00)
Trichloroethene	.41195	.42241	2.54			
Benzene	.77948	.82842	6.28			
Dibromochloromethane	.65696	.70362	7.10			
1,1,2-Trichloroethane	.26679	.28095	5.31			
trans-1,3-Dichloropropene	.47658	.53998	13.30			(Conc=47.00)
2-Chloroethylvinylether	.08715	.07306	16.17			

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

148

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/11/94

Contractor: Accredited Labs Time: 19:04

Contract No: CACS39 Laboratory ID: >C8551

Instrument ID: HP5790BC Initial Calibration Date: 12/09/94

Minimum $\overline{RF}$ for SPCC is .3 Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Bromoform	.43601	.43978	.86		**	
2-Hexanone	.40824	.40627	.48			
4-Methyl-2-pentanone	.19459	.23573	21.14			
Tetrachloroethene	.71737	.73910	3.03			
1,1,2,2-Tetrachloroethane	.50626	.49915	1.40		**	
Toluene-d8	1.21863	1.29003	5.86			
Toluene	1.24489	1.33581	7.30	*		
Chlorobenzene	.94941	.99784	5.10		**	
Bromofluorobenzene	.97464	1.07904	10.71			
Ethylbenzene	1.63606	1.88364	15.13	*		
Styrene	.86794	.96550	11.24			
m,p-Xylene	1.46923	1.54668	5.27			(Conc=100.00)
o-Xylene	1.63358	1.73983	6.50			

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

149

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/12/94

Contractor: Accredited Labs Time: 13:32

Contract No: CACA43 Laboratory ID: >C8573

Instrument ID: HP5790BC Initial Calibration Date: 12/08/94

Minimum $\overline{RF}$ for SPCC is .3 Maximum % Diff for CCC is 25.0%

IC-3
CC-3

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Acrolein	.15825	.15767	.37			(Conc=500.00)
Acrylonitrile	.17564	.18077	2.92			(Conc=500.00)
Chloromethane	.68228	.68391	.24		**	
Bromomethane	1.00021	1.12191	12.17			
Vinyl Chloride	.62905	.68642	9.12	*		
Chloroethane	.50218	.60588	20.65			
Methylene Chloride	1.50856	1.68547	11.73			
Acetone	.25712	.46160	79.53			
Carbon Disulfide	1.42774	1.52182	6.59			
Trichlorofluoromethane	3.36813	3.69720	9.77			
1,1-Dichloroethene	2.01817	2.22040	10.02	*		
1,1-Dichloroethane	2.19287	2.45315	11.87		**	
T-butyl alcohol	.07449	.08048	8.04			(Conc=500.00)
cis-1,2-Dichloroethene	1.79053	2.02959	13.35			
trans-1,2-Dichloroethene	1.86793	2.07627	11.15			
Chloroform	3.03228	3.51921	16.06	*		
1,2-Dichloroethane-d4	2.18256	2.48183	13.71			
1,2-Dichloroethane	2.49548	2.87710	15.29			
2-Butanone	.11126	.15653	40.69			
Methyl t-butyl ether	.62092	.67674	8.99			(Conc=500.00)
1,1,1-Trichloroethane	.93421	1.01904	9.08			
Carbon Tetrachloride	.92699	1.02022	10.06			
Vinyl Acetate	.30175	.28204	6.53			
Bromodichloromethane	.94641	1.03184	9.03			
1,2-Dichloropropane	.34358	.35808	4.22	*		
cis-1,3-Dichloropropene	.52390	.56307	7.48			(Conc=53.00)
Trichloroethene	.39958	.42532	6.44			
Benzene	.77186	.82790	7.26			
Dibromochloromethane	.73974	.80859	9.31			
1,1,2-Trichloroethane	.30263	.32243	6.54			
trans-1,3-Dichloropropene	.55197	.59649	8.06			(Conc=47.00)
2-Chloroethylvinylether	.11598	.07712	33.51			

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

150

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/12/94

Contractor: Accredited Labs Time: 13:32

Contract No: CACA43 Laboratory ID: >C8573

Instrument ID: HP5790BC Initial Calibration Date: 12/08/94

Minimum $\overline{RF}$ for SPCC is .3 Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Bromoform	.50349	.55188	9.61		**	
2-Hexanone	.52519	.46592	11.29			
4-Methyl-2-pentanone	.23050	.30353	31.68			
Tetrachloroethene	.66870	.71951	7.60			
1,1,2,2-Tetrachloroethane	.60497	.61448	1.57		**	
Toluene-d8	1.19389	1.27721	6.98			
Toluene	1.22811	1.33461	8.67	*		
Chlorobenzene	.93343	.99933	7.06		**	
Bromofluorobenzene	1.01771	1.10429	8.51			
Ethylbenzene	1.61175	1.81985	12.91	*		
Styrene	.88556	.97188	9.75			
m,p-Xylene	1.43790	1.53077	6.46			(Conc=100.00)
o-Xylene	1.61695	1.71542	6.09			

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/13/94

Contractor: Accredited Labs Time: 09:40

Contract No: CACS39 Laboratory ID: >C8599

Instrument ID: HP5790BC Initial Calibration Date: 12/09/94

IC-4
CC-4

Minimum $\overline{RF}$ for SPCC is .3 Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Acrolein	.13549	.13003	4.03			(Conc=500.00)
Acrylonitrile	.14979	.15674	4.64			(Conc=500.00)
Chloromethane	.68874	.68589	.41		**	
Bromomethane	1.13652	1.19285	4.96			
Vinyl Chloride	.71731	.74797	4.27	*		
Chloroethane	.58747	.64935	10.53			
Methylene Chloride	1.65072	1.66759	1.02			
Acetone	.29373	.30581	4.11			
Carbon Disulfide	1.58614	1.56089	1.59			
Trichlorofluoromethane	3.48358	4.03071	15.71			
1,1-Dichloroethene	2.14419	2.35253	9.72	*		
1,1-Dichloroethane	2.38068	2.60146	9.27		**	
T-butyl alcohol	.06381	.06343	.60			(Conc=500.00)
cis-1,2-Dichloroethene	1.90822	2.07925	8.96			
trans-1,2-Dichloroethene	2.05973	2.25118	9.29			
Chloroform	3.24715	3.65277	12.49	*		
1,2-Dichloroethane-d4	2.03739	2.32390	14.06			
1,2-Dichloroethane	2.35666	2.66144	12.93			
2-Butanone	.10145	.09288	8.45			
Methyl t-butyl ether	.57950	.62953	8.63			(Conc=500.00)
1,1,1-Trichloroethane	.92720	1.02973	11.06			
Carbon Tetrachloride	.91434	1.01771	11.31			
Vinyl Acetate	.24120	.23017	4.57			
Bromodichloromethane	.87235	.94905	8.79			
1,2-Dichloropropane	.32214	.33827	5.00	*		
cis-1,3-Dichloropropene	.48600	.51208	5.36			(Conc=53.00)
Trichloroethene	.41195	.42518	3.21			
Benzene	.77948	.82187	5.44			
Dibromochloromethane	.65696	.69387	5.62			
1,1,2-Trichloroethane	.26679	.27445	2.87			
trans-1,3-Dichloropropene	.47658	.52435	10.02			(Conc=47.00)
2-Chloroethylvinylether	.08715	.07251	16.80			

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

152

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/13/94

Contractor: Accredited Labs Time: 09:40

Contract No: CACS39 Laboratory ID: >C8599

Instrument ID: HP5790BC Initial Calibration Date: 12/09/94

Minimum $\overline{RF}$ for SPCC is .3 Maximum % Diff for CCC is 25.0%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Bromoform	.43601	.43640	.09		**	
2-Hexanone	.40824	.35522	12.99			
4-Methyl-2-pentanone	.19459	.18226	6.34			
Tetrachloroethene	.71737	.72948	1.69			
1,1,2,2-Tetrachloroethane	.50626	.49861	1.51		**	
Toluene-d8	1.21863	1.23805	1.59			
Toluene	1.24489	1.28094	2.90	*		
Chlorobenzene	.94941	.95963	1.08		**	
Bromofluorobenzene	.97464	1.07085	9.87			
Ethylbenzene	1.63606	1.70298	4.09	*		
Styrene	.86794	.94874	9.31			
m,p-Xylene	1.46923	1.52771	3.98			(Conc=100.00)
o-Xylene	1.63358	1.67454	2.51			

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/13/94

Contractor: Accredited Labs Inc. Time: 12:38

Contract No: CADA28 Laboratory ID: >D7594

Instrument ID: HP5790BD Initial Calibration Date: 10/17/94

Minimum $\overline{RF}$ for SPCC is .30 Maximum % Diff for CCC is 25%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Acrolein	.03023	.20625	582.30			(Conc=500.00)
Acrylonitrile	.17581	.22120	25.81			(Conc=500.00)
Chloromethane	.48587	.69437	42.91		**	
Bromomethane	.93740	1.16544	24.33			
Vinyl Chloride	.50063	.54967	9.80	*		
Chloroethane	.43586	.55667	27.72			
Methylene Chloride	1.36029	1.79126	31.68			
Acetone	.29663	.36155	21.89			
Carbon Disulfide	1.75755	1.74350	.80			
Trichlorofluoromethane	2.44963	2.34712	4.18			
1,1-Dichloroethene	1.67729	1.81420	8.16	*		
1,1-Dichloroethane	1.95834	2.24164	14.47		**	
T-butyl alcohol	.08271	.11514	39.20			(Conc=500.00)
cis-1,2-Dichloroethene	1.53704	1.74505	13.53			
trans-1,2-Dichloroethene	1.62302	1.79337	10.50			
Chloroform	2.56317	2.89735	13.04	*		
1,2-Dichloroethane-d4	1.47943	1.58910	7.41			
1,2-Dichloroethane	1.62999	1.82060	11.69			
2-Butanone	.14931	.16727	12.03			
Methyl t-butyl ether	.49365	.49115	.51			(Conc=500.00)
1,1,1-Trichloroethane	.76016	.79853	5.05			
Carbon Tetrachloride	.75983	.76646	.87			
Vinyl Acetate	.28508	.33234	16.58			
Bromodichloromethane	.96545	1.05583	9.36			
1,2-Dichloropropane	.39220	.46371	18.23	*		
cis-1,3-Dichloropropene	.55237	.62965	13.99			(Conc=53.00)
Trichloroethene	.41184	.47036	14.21			
Benzene	.80646	.92421	14.60			
Dibromochloromethane	.82358	.89143	8.24			
1,1,2-Trichloroethane	.37409	.43846	17.21			
trans-1,3-Dichloropropene	.62288	.71003	13.99			(Conc=47.00)
2-Chloroethylvinylether	.06438	.14312	122.33			

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

154

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/13/94

Contractor: Accredited Labs Inc. Time: 12:38

Contract No: CADA28 Laboratory ID: >D7594

Instrument ID: HP5790BD Initial Calibration Date: 10/17/94

Minimum $\overline{RF}$ for SPCC is .30 Maximum % Diff for CCC is 25%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
Bromoform	.55389	.61482	11.00		**	
2-Hexanone	.52017	.63370	21.83			
4-Methyl-2-pentanone	.31920	.34705	8.72			
Tetrachloroethene	.63418	.71825	13.26			
1,1,2,2-Tetrachloroethane	.87333	1.04996	20.23		**	
Toluene-d8	1.17403	1.31952	12.39			
Toluene	1.25377	1.41040	12.49	*		
Chlorobenzene	.99596	1.13859	14.32		**	
Bromofluorobenzene	1.05486	1.17304	11.20			
Ethylbenzene	1.58855	1.79997	13.31	*		
Styrene	.92205	1.03027	11.74			
m,p-Xylene	1.28871	1.42546	10.61			(Conc=100.00)
o-Xylene	1.44277	1.60917	11.53			

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Accredited Labs, Inc Contract :------

Lab Code: GC/MS Case No.: ----- SAS No.:----- SDG No.:-------

Matrix Spike - ALI Sample No.:9417644 (B85501)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC#	QC LIMITS REC
1,1-Dichloroethene	50	0	33	66	59-172
Trichloroethene	50	0	39	79	62-137
Benzene	50	0	47	94	66-142
Toluene	50	0	56	112	59-139
Chlorobenzene	50	0	50	100	60-133

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC#	% RPD#	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50	34	68	2	22	59-172
Trichloroethene	50	39	78	1	24	62-137
Benzene	50	48	95	1	21	66-142
Toluene	50	60	121	7	21	59-139
Chlorobenzene	50	57	115	14	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 of 10 outside limits

COMMENTS:

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Accredited Labs, Inc Contract :------

Lab Code: GC/MS Case No.: ----- SAS No.:----- SDG No.:-------

Matrix Spike - ALI Sample No.:9417652 (BB-DS-01)

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC#	QC LIMITS REC
1,1-Dichloroethene	50	0	45	89	61-145
Trichloroethene	50	0	45	89	71-120
Benzene	50	0	49	98	76-127
Toluene	50	19	67	96	76-125
Chlorobenzene	50	0	50	99	75-130

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC#	% RPD#	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50	45	89	0	14	61-145
Trichloroethene	50	46	92	3	14	71-120
Benzene	50	50	99	1	11	76-127
Toluene	50	76	114	17*	13	76-125
Chlorobenzene	50	50	99	0	13	75-130

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

RPD: 1 out of 5 outside limits
Spike Recovery: 0 of 10 outside limits

COMMENTS:

157

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Accredited Labs, Inc Contract :------

Lab Code: GC/MS Case No.: ----- SAS No.:----- SDG No.:-------

Matrix Spike - ALI Sample No.:9417661 (BB-DL-03) This sample reported on Form 1 as a Blank m/b

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC#	QC LIMITS REC
1,1-Dichloroethene	50	0	32	63	59-172
Trichloroethene	50	0	47	94	62-137
Benzene	50	0	51	102	66-142
Toluene	50	0	50	99	59-139
Chlorobenzene	50	0	50	101	60-133

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC#	% RPD#	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50	32	63	0	22	59-172
Trichloroethene	50	47	95	0	24	62-137
Benzene	50	52	104	2	21	66-142
Toluene	50	49	97	1	21	59-139
Chlorobenzene	50	50	101	0	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 of 10 outside limits

COMMENTS:

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	DAILY BLANK	DILUTION FACTOR	1.0
DATA FILE	>C8440	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	12/06/94
FIELD ID		ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	50	78875	1,2-Dichloropropane	U	5
107131	Acrylonitrile	U	50	10061015	cis-1,3-Dichloropropene	U	5
74873	Chloromethane	U	10	79016	Trichloroethene	U	5
74839	Bromomethane	U	10	71432	Benzene	U	5
75014	Vinyl Chloride	U	10	124481	Dibromochloromethane	U	5
75003	Chloroethane	U	10	79005	1,1,2-Trichloroethane	U	5
75092	Methylene Chloride	2 J	5	10061026	trans-1,3-Dichloropropene	U	5
67641	Acetone	U	10	110758	2-Chloroethylvinylether	U	10
75150	Carbon Disulfide	U	5	75252	Bromoform	U	5
75694	Trichlorofluoromethane	U	10	591786	2-Hexanone	U	10
75354	1,1-Dichloroethene	U	5	108101	4-Methyl-2-pentanone	U	10
75343	1,1-Dichloroethane	U	5	127184	Tetrachloroethene	U	5
156605	trans-1,2-Dichloroethene	U	5	79345	1,1,2,2-Tetrachloroethane	U	5
67663	Chloroform	U	5	108883	Toluene	U	5
107062	1,2-Dichloroethane	U	5	108907	Chlorobenzene	U	5
78933	2-Butanone	U	10	100414	Ethylbenzene	U	5
71556	1,1,1-Trichloroethane	U	5	100425	Styrene	U	5
56235	Carbon Tetrachloride	U	5	1330207	m,p-Xylene	U	5
108054	Vinyl Acetate	U	10	95476	o-Xylene	U	5
75274	Bromodichloromethane	U	5	156592	cis-1,2-Dichloroethene	U	5

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	104 %	70-121	OK
Toluene-d8	99 %	81-117	OK
Bromofluorobenzene	98 %	74-121	OK

Percent solid of 100 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

159

QUANT REPORT

Operator ID: LARRY
Output File: ^C8440::D2
Data File: >C8440::C2
Name: DAILY BLANK
Misc:

Quant Rev: 6
Quant Time: 941206 10:37
Injected at: 941206 10:06
Dilution Factor: 1.00000

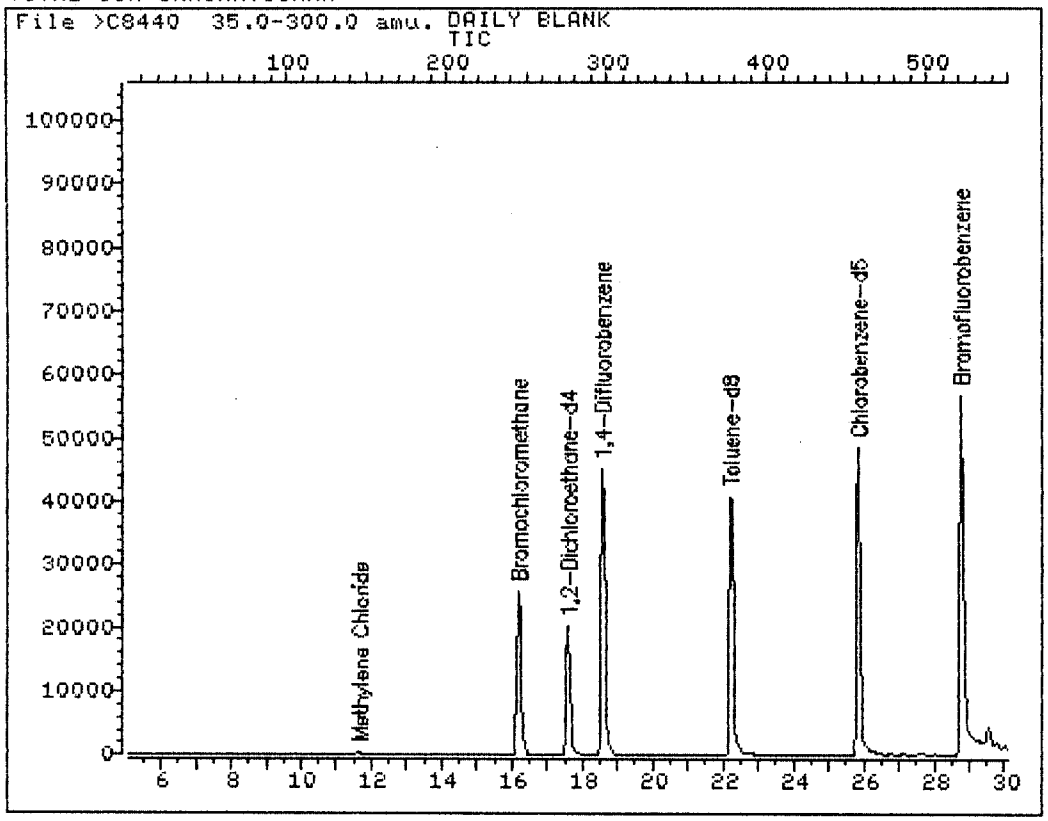
ID File: IDCS38::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941202 12:45

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.19	245	32957	50.00	ug/l	93
8)	Methylene Chloride	11.68	146	1895	1.62	ug/l	89
18)	1,2-Dichloroethane-d4	17.60	276	69085	51.94	ug/l	90
20)	*1,4-Difluorobenzene	18.56	297	127639	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.85	457	90125	50.00	ug/l	100
41)	Toluene-d8	22.21	377	111634	49.31	ug/l	96
44)	Bromofluorobenzene	28.77	521	82072M	49.23	ug/l	

* Compound is ISTD

272

TOTAL ION CHROMATOGRAM



Data File: >C8440::C2 Quant Output File: ^C8440::D2
Name: DAILY BLANK
Misc:

Id File: IDCS38::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941202 12:45

Operator ID: LARRY
Quant Time: 941206 10:37
Injected at: 941206 10:06

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	DAILY BLANK	DILUTION FACTOR	1.0
DATA FILE	>C8534	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	12/09/94
FIELD ID		ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	50	78875	1,2-Dichloropropane	U	5
107131	Acrylonitrile	U	50	10061015	cis-1,3-Dichloropropene	U	5
74873	Chloromethane	U	10	79016	Trichloroethene	U	5
74839	Bromomethane	U	10	71432	Benzene	U	5
75014	Vinyl Chloride	U	10	124481	Dibromochloromethane	U	5
75003	Chloroethane	U	10	79005	1,1,2-Trichloroethane	U	5
75092	Methylene Chloride	3 J	5	10061026	trans-1,3-Dichloropropene	U	5
67641	Acetone	U	10	110758	2-Chloroethylvinylether	U	10
75150	Carbon Disulfide	U	5	75252	Bromoform	U	5
75694	Trichlorofluoromethane	U	10	591786	2-Hexanone	U	10
75354	1,1-Dichloroethene	U	5	108101	4-Methyl-2-pentanone	U	10
75343	1,1-Dichloroethane	U	5	127184	Tetrachloroethene	U	5
156605	trans-1,2-Dichloroethene	U	5	79345	1,1,2,2-Tetrachloroethane	U	5
67663	Chloroform	U	5	108883	Toluene	U	5
107062	1,2-Dichloroethane	U	5	108907	Chlorobenzene	U	5
78933	2-Butanone	U	10	100414	Ethylbenzene	U	5
71556	1,1,1-Trichloroethane	U	5	100425	Styrene	U	5
56235	Carbon Tetrachloride	U	5	1330207	m,p-Xylene	U	5
108054	Vinyl Acetate	U	10	95476	o-Xylene	U	5
75274	Bromodichloromethane	U	5	156592	cis-1,2-Dichloroethene	U	5

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	99 %	70-121	OK
Toluene-d8	99 %	81-117	OK
Bromofluorobenzene	94 %	74-121	OK

Percent solid of 100 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

QUANT REPORT

Operator ID: LARRY
Output File: ^C8534::D2
Data File: >C8534::C2
Name: DAILY BLANK
Misc:

Quant Rev: 6
Quant Time: 941211 16:37
Injected at: 941209 18:24
Dilution Factor: 1.00000

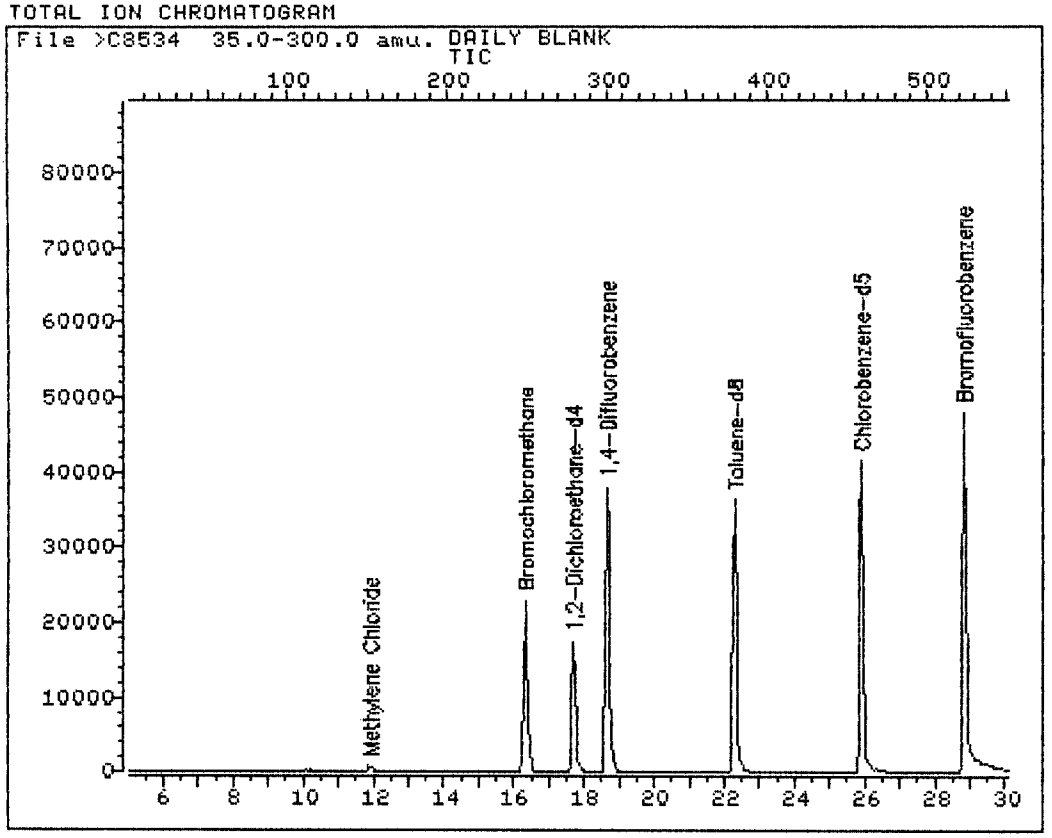
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.33	249	29166	50.00	ug/l	96
8)	Methylene Chloride	11.91	152	2872	2.98	ug/l	98
18)	1,2-Dichloroethane-d4	17.70	279	58578	49.29	ug/l	89
20)	*1,4-Difluorobenzene	18.65	300	107050	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.90	459	75806	50.00	ug/l	100
41)	Toluene-d8	22.30	380	91214	49.37	ug/l	92
44)	Bromofluorobenzene	28.82	523	69488	47.03	ug/l	67

* Compound is ISTD

274

TOTAL ION CHROMATOGRAM



Data File: >C8534::C2 Quant Output File: ^C8534::D2
Name: DAILY BLANK
Misc:

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941211 16:37
Injected at: 941209 18:24

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	DAILY BLANK	DILUTION FACTOR	1.0
DATA FILE	>C8552	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	12/11/94
FIELD ID		ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	50	78875	1,2-Dichloropropane	U	5
107131	Acrylonitrile	U	50	10061015	cis-1,3-Dichloropropene	U	5
74873	Chloromethane	U	10	79016	Trichloroethene	U	5
74839	Bromomethane	U	10	71432	Benzene	U	5
75014	Vinyl Chloride	U	10	124481	Dibromochloromethane	U	5
75003	Chloroethane	U	10	79005	1,1,2-Trichloroethane	U	5
75092	Methylene Chloride	2 J	5	10061026	trans-1,3-Dichloropropene	U	5
67641	Acetone	U	10	110758	2-Chloroethylvinylether	U	10
75150	Carbon Disulfide	U	5	75252	Bromoform	U	5
75694	Trichlorofluoromethane	U	10	591786	2-Hexanone	U	10
75354	1,1-Dichloroethene	U	5	108101	4-Methyl-2-pentanone	U	10
75343	1,1-Dichloroethane	U	5	127184	Tetrachloroethene	U	5
156605	trans-1,2-Dichloroethene	U	5	79345	1,1,2,2-Tetrachloroethane	U	5
67663	Chloroform	U	5	108883	Toluene	U	5
107062	1,2-Dichloroethane	U	5	108907	Chlorobenzene	U	5
78933	2-Butanone	U	10	100414	Ethylbenzene	U	5
71556	1,1,1-Trichloroethane	U	5	100425	Styrene	U	5
56235	Carbon Tetrachloride	U	5	1330207	m,p-Xylene	U	5
108054	Vinyl Acetate	U	10	95476	o-Xylene	U	5
75274	Bromodichloromethane	U	5	156592	cis-1,2-Dichloroethene	U	5

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	110 %	70-121	OK
Toluene-d8	100 %	81-117	OK
Bromofluorobenzene	93 %	74-121	OK

Percent solid of 100 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

161

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941211 20:22
Output File: ^C8552::D2 Injected at: 941211 19:51
Data File: >C8552::C2 Dilution Factor: 1.00000
Name: DAILY BLANK
Misc:

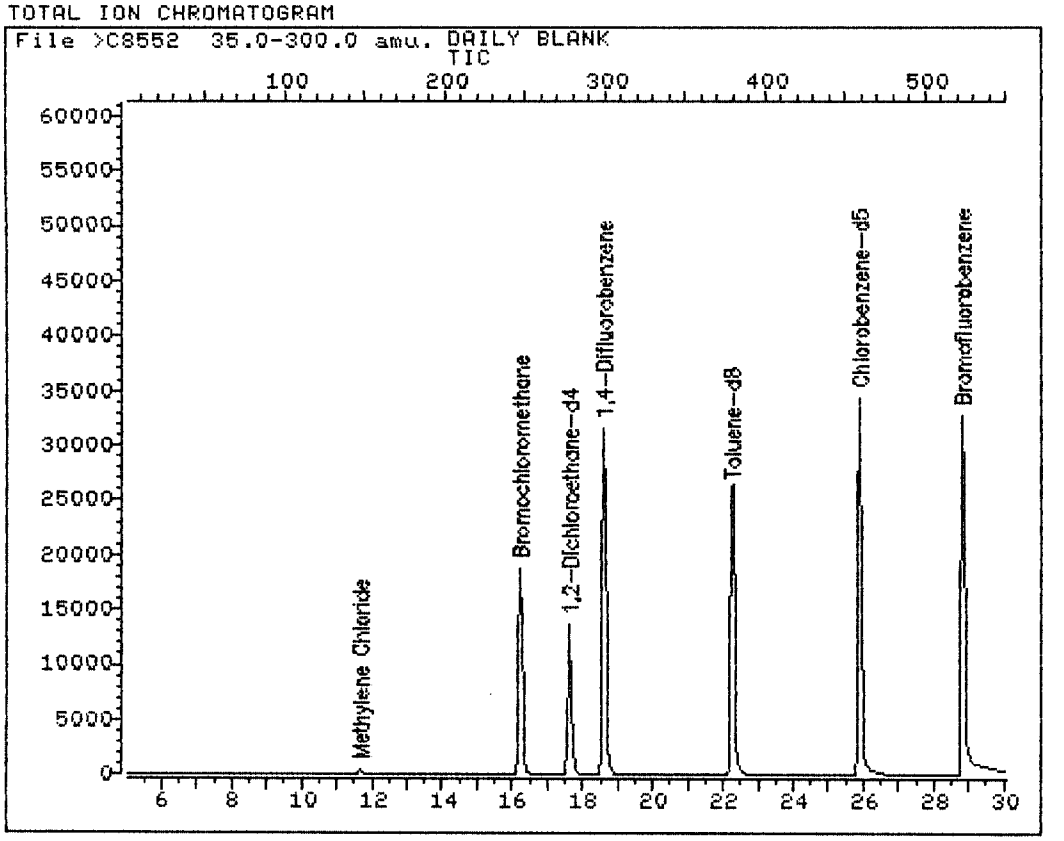
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.23	247	21308	50.00	ug/l	96
8)	Methylene Chloride	11.67	147	1225	1.74	ug/l	96
18)	1,2-Dichloroethane-d4	17.64	278	47709	54.95	ug/l	88
20)	*1,4-Difluorobenzene	18.60	299	81653	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.90	459	56956	50.00	ug/l	100
41)	Toluene-d8	22.25	379	69427	50.01	ug/l	94
44)	Bromofluorobenzene	28.81	523	51449M	46.34	ug/l	

* Compound is ISTD

276

TOTAL ION CHROMATOGRAM



Data File: >C8552::C2 Quant Output File: ^C8552::D2
Name: DAILY BLANK
Misc:

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941211 20:22
Injected at: 941211 19:51

277

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	DAILY BLANK	DILUTION FACTOR	1.0
DATA FILE	>C8574	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	12/12/94
FIELD ID		ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	50	78875	1,2-Dichloropropane	U	5
107131	Acrylonitrile	U	50	10061015	cis-1,3-Dichloropropene	U	5
74873	Chloromethane	U	10	79016	Trichloroethene	U	5
74839	Bromomethane	U	10	71432	Benzene	U	5
75014	Vinyl Chloride	U	10	124481	Dibromochloromethane	U	5
75003	Chloroethane	U	10	79005	1,1,2-Trichloroethane	U	5
75092	Methylene Chloride	4 J	5	10061026	trans-1,3-Dichloropropene	U	5
67641	Acetone	U	10	110758	2-Chloroethylvinylether	U	10
75150	Carbon Disulfide	U	5	75252	Bromoform	U	5
75694	Trichlorofluoromethane	U	10	591786	2-Hexanone	U	10
75354	1,1-Dichloroethene	U	5	108101	4-Methyl-2-pentanone	U	10
75343	1,1-Dichloroethane	U	5	127184	Tetrachloroethene	U	5
156605	trans-1,2-Dichloroethene	U	5	79345	1,1,2,2-Tetrachloroethane	U	5
67663	Chloroform	U	5	108883	Toluene	U	5
107062	1,2-Dichloroethane	U	5	108907	Chlorobenzene	U	5
78933	2-Butanone	U	10	100414	Ethylbenzene	U	5
71556	1,1,1-Trichloroethane	U	5	100425	Styrene	U	5
56235	Carbon Tetrachloride	U	5	1330207	m,p-Xylene	U	5
108054	Vinyl Acetate	U	10	95476	o-Xylene	U	5
75274	Bromodichloromethane	U	5	156592	cis-1,2-Dichloroethene	U	5

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	101 %	70-121	OK
Toluene-d8	100 %	81-117	OK
Bromofluorobenzene	93 %	74-121	OK

Percent solid of 100 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

162

QUANT REPORT

Operator ID: LARRY
Output File: ^C8574::D2
Data File: >C8574::C2
Name: DAILY BLANK
Misc:

Quant Rev: 6
Quant Time: 941212 14:50
Injected at: 941212 14:19
Dilution Factor: 1.00000

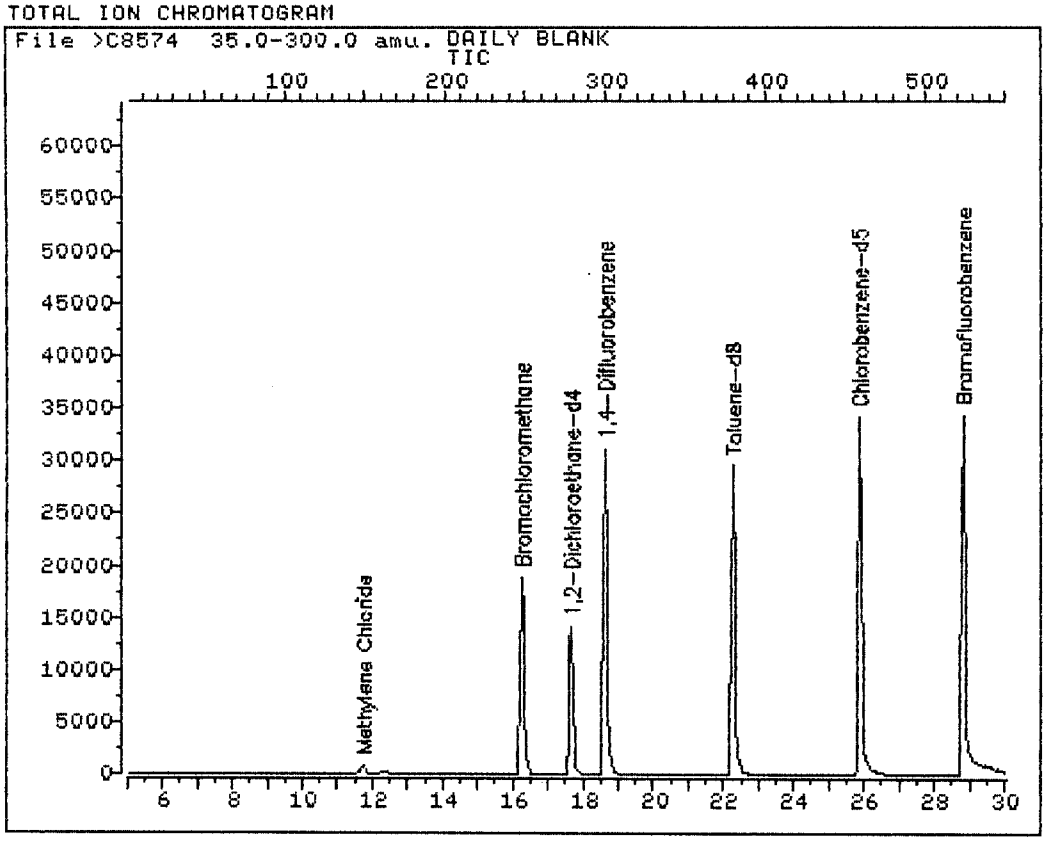
ID File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.26	248	23043	50.00	ug/l	97
8)	Methylene Chloride	11.74	149	2513	3.61	ug/l	92
18)	1,2-Dichloroethane-d4	17.67	279	50853	50.56	ug/l	89
20)	*1,4-Difluorobenzene	18.63	300	80925	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.88	459	58243	50.00	ug/l	100
41)	Toluene-d8	22.28	380	69632	50.07	ug/l	94
44)	Bromofluorobenzene	28.84	524	55385	46.72	ug/l	97

* Compound is ISTD

278

TOTAL ION CHROMATOGRAM



Data File: >C8574::C2 Quant Output File: ^C8574::D2
Name: DAILY BLANK
Misc:

Id File: IDCA43::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941208 11:49

Operator ID: LARRY
Quant Time: 941212 14:50
Injected at: 941212 14:19

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	DAILY BLANK	DILUTION FACTOR	1.0
DATA FILE	>C8601	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	12/13/94
FIELD ID		ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	50	78875	1,2-Dichloropropane	U	5
107131	Acrylonitrile	U	50	10061015	cis-1,3-Dichloropropene	U	5
74873	Chloromethane	U	10	79016	Trichloroethene	U	5
74839	Bromomethane	U	10	71432	Benzene	U	5
75014	Vinyl Chloride	U	10	124481	Dibromochloromethane	U	5
75003	Chloroethane	U	10	79005	1,1,2-Trichloroethane	U	5
75092	Methylene Chloride	5	5	10061026	trans-1,3-Dichloropropene	U	5
67641	Acetone	U	10	110758	2-Chloroethylvinylether	U	10
75150	Carbon Disulfide	U	5	75252	Bromoform	U	5
75694	Trichlorofluoromethane	U	10	591786	2-Hexanone	U	10
75354	1,1-Dichloroethene	U	5	108101	4-Methyl-2-pentanone	U	10
75343	1,1-Dichloroethane	U	5	127184	Tetrachloroethene	U	5
156605	trans-1,2-Dichloroethene	U	5	79345	1,1,2,2-Tetrachloroethane	U	5
67663	Chloroform	U	5	108883	Toluene	U	5
107062	1,2-Dichloroethane	U	5	108907	Chlorobenzene	U	5
78933	2-Butanone	U	10	100414	Ethylbenzene	U	5
71556	1,1,1-Trichloroethane	U	5	100425	Styrene	U	5
56235	Carbon Tetrachloride	U	5	1330207	m,p-Xylene	U	5
108054	Vinyl Acetate	U	10	95476	o-Xylene	U	5
75274	Bromodichloromethane	U	5	156592	cis-1,2-Dichloroethene	U	5

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	107 %	70-121	OK
Toluene-d8	94 %	81-117	OK
Bromofluorobenzene	89 %	74-121	OK

Percent solid of 100 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

163

QUANT REPORT

Operator ID: LARRY
Output File: ^C8601::D2
Data File: >C8601::C2
Name: DAILY BLANK
Misc:

Quant Rev: 6
Quant Time: 941213 11:53
Injected at: 941213 11:22
Dilution Factor: 1.00000

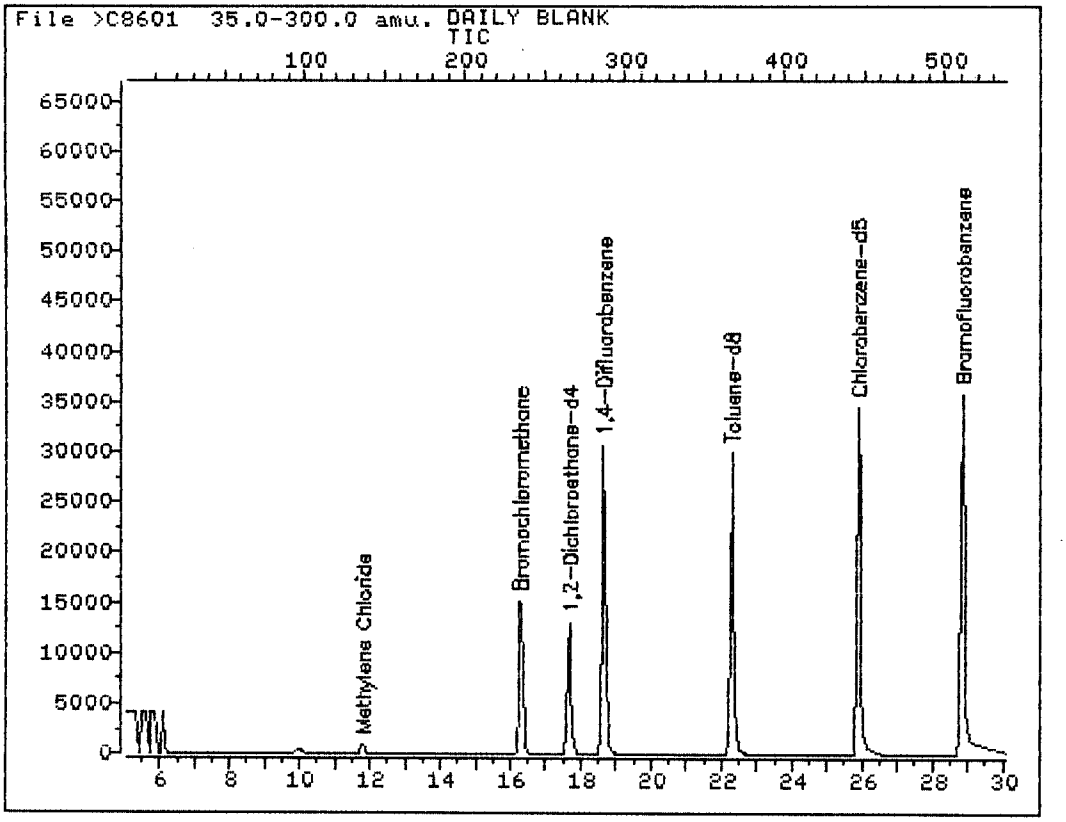
ID File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	16.27	235	20292	50.00	ug/l	96
8)	Methylene Chloride	11.80	137	3518	5.25	ug/l	95
18)	1,2-Dichloroethane-d4	17.68	266	44388	53.68	ug/l	90
20)	*1,4-Difluorobenzene	18.64	287	81517	50.00	ug/l	100
36)	*Chlorobenzene-d5	25.89	446	60588	50.00	ug/l	100
41)	Toluene-d8	22.29	367	69066	46.77	ug/l	96
44)	Bromofluorobenzene	28.85	511	52644	44.57	ug/l	89

* Compound is ISTD

280

TOTAL ION CHROMATOGRAM



Data File: >C8601::C2 Quant Output File: ^C8601::D2
Name: DAILY BLANK
Misc:

Id File: IDCS39::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941211 16:36

Operator ID: LARRY
Quant Time: 941213 11:53
Injected at: 941213 11:22

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	DAILY BLANK	DILUTION FACTOR	1.0
DATA FILE	>D7595	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	12/13/94
FIELD ID		ANALYZED BY	LARRY

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	50	78875	1,2-Dichloropropane	U	5
107131	Acrylonitrile	U	50	10061015	cis-1,3-Dichloropropene	U	5
74873	Chloromethane	U	10	79016	Trichloroethene	U	5
74839	Bromomethane	U	10	71432	Benzene	U	5
75014	Vinyl Chloride	U	10	124481	Dibromochloromethane	U	5
75003	Chloroethane	U	10	79005	1,1,2-Trichloroethane	U	5
75092	Methylene Chloride	6	5	10061026	trans-1,3-Dichloropropene	U	5
67641	Acetone	U	10	110758	2-Chloroethylvinylether	U	10
75150	Carbon Disulfide	U	5	75252	Bromoform	U	5
75694	Trichlorofluoromethane	U	10	591786	2-Hexanone	U	10
75354	1,1-Dichloroethene	U	5	108101	4-Methyl-2-pentanone	U	10
75343	1,1-Dichloroethane	U	5	127184	Tetrachloroethene	U	5
156605	trans-1,2-Dichloroethene	U	5	79345	1,1,2,2-Tetrachloroethane	U	5
67663	Chloroform	U	5	108883	Toluene	U	5
107062	1,2-Dichloroethane	U	5	108907	Chlorobenzene	U	5
78933	2-Butanone	U	10	100414	Ethylbenzene	U	5
71556	1,1,1-Trichloroethane	U	5	100425	Styrene	U	5
56235	Carbon Tetrachloride	U	5	1330207	m,p-Xylene	U	5
108054	Vinyl Acetate	U	10	95476	o-Xylene	U	5
75274	Bromodichloromethane	U	5	156592	cis-1,2-Dichloroethene	U	5

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	97 %	70-121	OK
Toluene-d8	94 %	81-117	OK
Bromofluorobenzene	97 %	74-121	OK

Percent solid of 100 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based oon New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

164

QUANT REPORT

Operator ID: LARRY Quant Rev: 6 Quant Time: 941213 14:18
Output File: ^D7595::D2 Injected at: 941213 13:46
Data File: >D7595::D1 Dilution Factor: 1.00000
Name: DAILY BLANK
Misc:

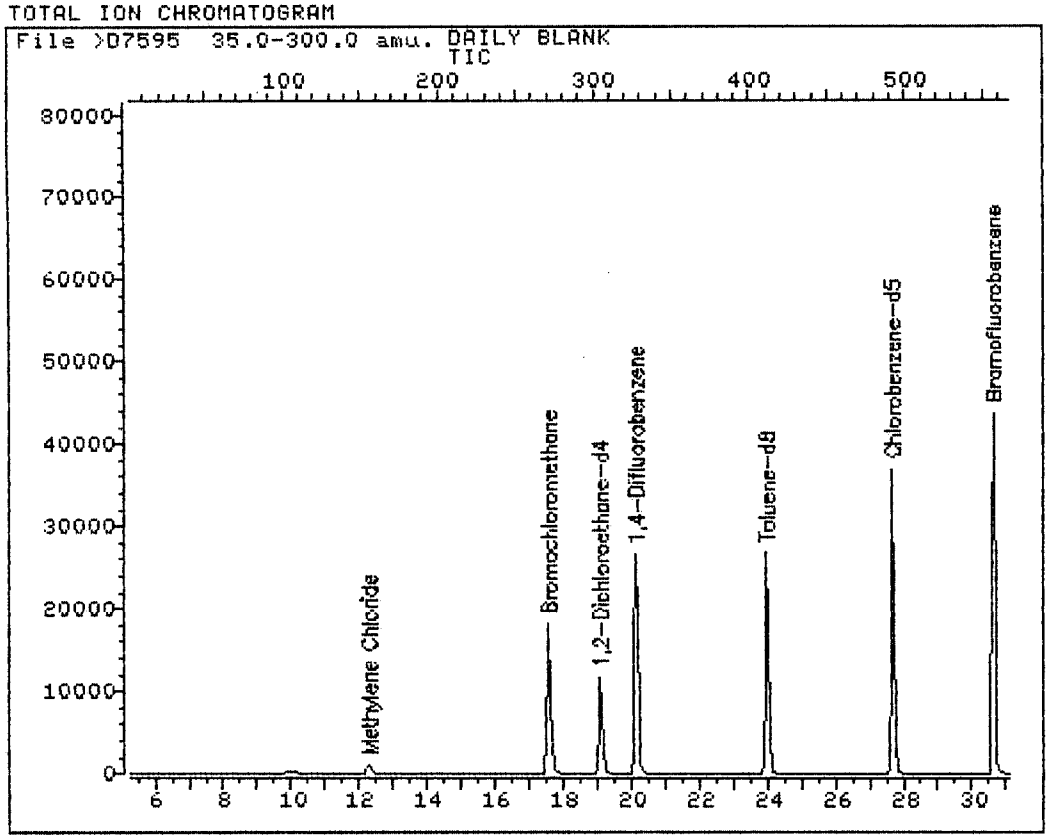
ID File: IDDA28::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941205 13:27

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*Bromochloromethane	17.59	271	25207	50.00	ug/l	94
8)	Methylene Chloride	12.29	155	4362	6.36	ug/l	89
18)	1,2-Dichloroethane-d4	19.09	304	32293	48.29	ug/l	95
20)	*1,4-Difluorobenzene	20.15	327	77812	50.00	ug/l	100
36)	*Chlorobenzene-d5	27.68	492	60643	50.00	ug/l	100
41)	Toluene-d8	23.98	411	63319	47.03	ug/l	96
44)	Bromofluorobenzene	30.65	557	56511	48.27	ug/l	77

* Compound is ISTD

282

TOTAL ION CHROMATOGRAM



Data File: >D7595::D1 Quant Output File: ^D7595::D2
Name: DAILY BLANK
Misc:

Id File: IDDA28::SC
Title: Accredited Labs Volatile Identity File
Last Calibration: 941205 13:27

Operator ID: LARRY
Quant Time: 941213 14:18
Injected at: 941213 13:46

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Aqueous
SAMPLE NUMBER	9417643	DILUTION FACTOR	1
DATA FILE	>B7560	DATE EXTRACTED	12/06/94
CLIENT NAME	RFWI	DATE ANALYZED	12/09/94
FIELD ID	BB-FB-01 Field blank	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/L	MDL
108952	Phenol	U	10
95578	2-Chlorophenol	U	10
95487	2-Methylphenol	U	10
108394	3&4-Methylphenol	U	10
88755	2-Nitrophenol	U	10
105679	2,4-Dimethylphenol	U	10
120832	2,4-Dichlorophenol	U	10
111444	bis(-2-Chloroethyl)Ether	U	10
541731	1,3-Dichlorobenzene	U	10
106467	1,4-Dichlorobenzene	U	10
100516	Benzyl Alcohol	U	10
95501	1,2-Dichlorobenzene	U	10
108601	bis(2-Chloroisopropyl)ether	UJ	10
621647	N-Nitroso-Di-n-propylamine	U	10
67721	Hexachloroethane	U	10
98953	Nitrobenzene	U	10
78591	Isophorone	U	10
65850	Benzoic Acid	UJ	50
111911	bis(-2-Chloroethoxy)Methane	U	10
120821	1,2,4-Trichlorobenzene	U	10
91203	Naphthalene	U	10
106478	4-Chloroaniline	U	10
87683	Hexachlorobutadiene	U	10
91576	2-Methylnaphthalene	U	10
77474	Hexachlorocyclopentadiene	UJ	10
91587	2-Chloronaphthalene	U	10
88744	2-Nitroaniline	U	50
131113	Dimethyl Phthalate	U	10
208968	Acenaphthylene	U	10
99092	3-Nitroaniline	U	50
83329	Acenaphthene	U	10
132649	Dibenzofuran	U	10
606202	2,6-Dinitrotoluene	U	10

CAS #	COMPOUND	UG/L	MDL
59507	4-Chloro-3-methylphenol	U	10
88062	2,4,6-Trichlorophenol	U	10
95954	2,4,5-Trichlorophenol	U	50
51285	2,4-Dinitrophenol	U	50
100027	4-Nitrophenol	U	50
534521	4,6-Dinitro-2-methylphenol	U	50
87865	Pentachlorophenol	U	50
121142	2,4-Dinitrotoluene	U	10
84662	Diethylphthalate	U	10
7005723	4-Chlorophenyl-phenylether	U	10
86737	Fluorene	U	10
100016	4-Nitroaniline	U	50
86306	N-Nitrosodiphenylamine	U	10
101553	4-Bromophenyl-phenylether	U	10
118741	Hexachlorobenzene	U	10
85018	Phenanthrene	U	10
120127	Anthracene	U	10
84742	Di-n-Butylphthalate	U	10
206440	Fluoranthene	U	10
129000	Pyrene	UJ	10
85687	Butylbenzylphthalate	U	10
91941	3,3'-Dichlorobenzidine	U	20
56553	Benzo(a)Anthracene	U	10
117817	Bis(2-Ethylhexyl)Phthalate	U	10
218019	Chrysene	U	10
117840	Di-n-octyl phthalate	U	10
205992	Benzo(b)fluoranthene	U	10
207089	Benzo(k)Fluoranthene	U	10
50328	Benzo(a)Pyrene	U	10
193395	Indeno(1,2,3-cd)Pyrene	UJ	10
53703	Dibenzo(a,h)Anthracene	UJ	10
191242	Benzo(g,h,i)Perylene	UJ	10

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	60 %	35-114	OK
2-Fluorobiphenyl	78 %	43-116	OK
Terphenyl-d14	45 %	33-141	OK
Phenol-d5	28 %	10- 94	OK
2-Fluorophenol	37 %	21-100	OK
2,4,6-Tribromophenol	41 %	10-123	OK

FB-

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

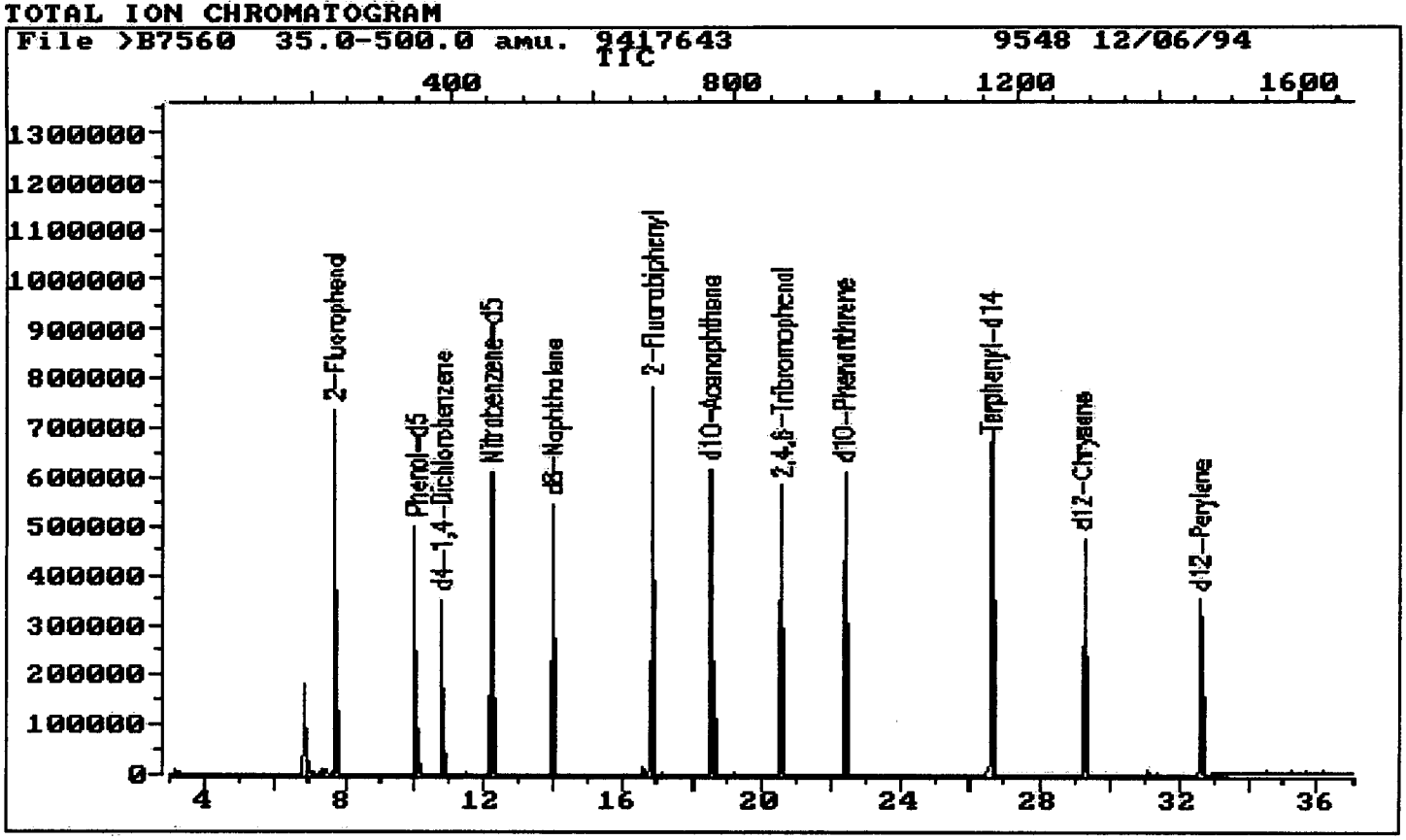
Operator ID: PAUL Quant Rev: 7 Quant Time: 941209 18:05
Output File: ^B7560::ME Injected at: 941209 17:27
Data File: >B7560::G1 Dilution Factor: 1.00000
Name: 9417643 Instrument ID: HP5970BB
Misc: 9548 12/06/94 RFWI BB-FB-01 BTL# 3

ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941209 14:03

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.77	384	126904	40.00	ug/l	96
4)	2-Fluorophenol	7.68	232	416665	74.55	ug/l	100
6)	Phenol-d5	10.04	348	418757	55.62	ug/l	79
19)	*d8-Naphthalene	13.96	541	554778	40.00	ug/l	99
20)	Nitrobenzene-d5	12.19	454	505072	59.55	ug/l	89
34)	*d10-Acenaphthene	18.50	764	350261	40.00	ug/l	93
39)	2-Fluorobiphenyl	16.83	682	738209	77.62	ug/l	95
54)	2,4,6-Tribromophenol	20.55	865	262772	82.19	ug/l	95
55)	*d10-Phenanthrene	22.34	953	700812	40.00	ug/l	100
67)	*d12-Chrysene	29.17	1289	542619	40.00	ug/l	100
70)	Terphenyl-d14	26.55	1160	1027744	45.19	ug/l	90
76)	*d12-Perylene	32.57	1456	447947	40.00	ug/l	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B7560 Quant Output File: ^B7560::ME
Name: 9417643 Instrument ID: HP5970BB
Misc: 9548 12/06/94 RFWI BB-FB-01 BTL# 3

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941209 14:03

Operator ID: PAUL
Quant Time : 941209 18:05
Injected at: 941209 17:27

355

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417644	DILUTION FACTOR	5
DATA FILE	>F9256	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/16/94
FIELD ID	BB-SS-01	ANALYZED BY	PAUL

ms/MDA

CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	2200
95578	2-Chlorophenol	U	2200
95487	2-Methylphenol	U	2200
108394	3&4-Methylphenol	U	2200
88755	2-Nitrophenol	U J	2200
105679	2,4-Dimethylphenol	U	2200
120832	2,4-Dichlorophenol	U	2200
111444	bis(-2-Chloroethyl)Ether	U	2200
541731	1,3-Dichlorobenzene	U	2200
106467	1,4-Dichlorobenzene	U	2200
100516	Benzyl Alcohol	U	2200
95501	1,2-Dichlorobenzene	U	2200
108601	bis(2-Chloroisopropyl)ether	U	2200
621647	N-Nitroso-Di-n-propylamine	U	2200
67721	Hexachloroethane	U	2200
98953	Nitrobenzene	U	2200
78591	Isophorone	2000 J	2200
65850	Benzoic Acid	U J	11000
111911	bis(-2-Chloroethoxy)Methane	U	2200
120821	1,2,4-Trichlorobenzene	U	2200
91203	Naphthalene	U	2200
106478	4-Chloroaniline	U	2200
87683	Hexachlorobutadiene	U	2200
91576	2-Methylnaphthalene	U	2200
77474	Hexachlorocyclopentadiene	U	2200
91587	2-Chloronaphthalene	U	2200
88744	2-Nitroaniline	U	11000
131113	Dimethyl Phthalate	U	2200
208968	Acenaphthylene	1500 J	2200
99092	3-Nitroaniline	U	11000
83329	Acenaphthene	2100 J	2200
132649	Dibenzofuran	U	2200
606202	2,6-Dinitrotoluene	U	2200

CAS #	COMPOUND	UG/KG	MDL
59507	4-Chloro-3-methylphenol	U	2200
88062	2,4,6-Trichlorophenol	U	2200
95954	2,4,5-Trichlorophenol	U	11000
51285	2,4-Dinitrophenol	U J	11000
100027	4-Nitrophenol	U	11000
534521	4,6-Dinitro-2-methylphenol	U	11000
87865	Pentachlorophenol	U	11000
121142	2,4-Dinitrotoluene	U	2200
84662	Diethylphthalate	U	2200
7005723	4-Chlorophenyl-phenylether	U	2200
86737	Fluorene	U	2200
100016	4-Nitroaniline	U	11000
86306	N-Nitrosodiphenylamine	U	2200
101553	4-Bromophenyl-phenylether	U	2200
118741	Hexachlorobenzene	U	2200
85018	Phenanthrene	2700	2200
120127	Anthracene	2500	2200
84742	Di-n-Butylphthalate	12000	2200
206440	Fluoranthene	1200 J	2200
129000	Pyrene	11000	2200
85687	Butylbenzylphthalate	10000	2200
91941	3,3'-Dichlorobenzidine	U	4400
56553	Benzo(a)Anthracene	1700 JR	2200
117817	Bis(2-Ethylhexyl)Phthalate	21000	2200
218019	Chrysene	2200	2200
117840	Di-n-octyl phthalate	560 J	2200
205992	Benzo(b)fluoranthene	3100 R	2200
207089	Benzo(k)Fluoranthene	U	2200
50328	Benzo(a)Pyrene	1900 JI	2200
193395	Indeno(1,2,3-cd)Pyrene	U J	2200
53703	Dibenzo(a,h)Anthracene	U J	2200
191242	Benzo(g,h,i)Perylene	3400 J	2200

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	96 %	23-120	OK
2-Fluorobiphenyl	85 %	30-115	OK
Terphenyl-d14	164 %	18-137	OUT
Phenol-d5	72 %	24-113	OK
2-Fluorophenol	107 %	25-121	OK
2,4,6-Tribromophenol	25 %	19-122	OK

Percent solid of 76.6 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.

46

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: PAUL
Output File: ^F9256::QT
Data File: >F9256::F1
Name: 9417644
Misc: 9548 12/13/94 RFWI

Quant Rev: 7
Quant Time: 941227 13:42
Injected at: 941216 18:49
Dilution Factor: 1.00000
Instrument ID: HP5970BF
BB-SS-01 BTL# 5

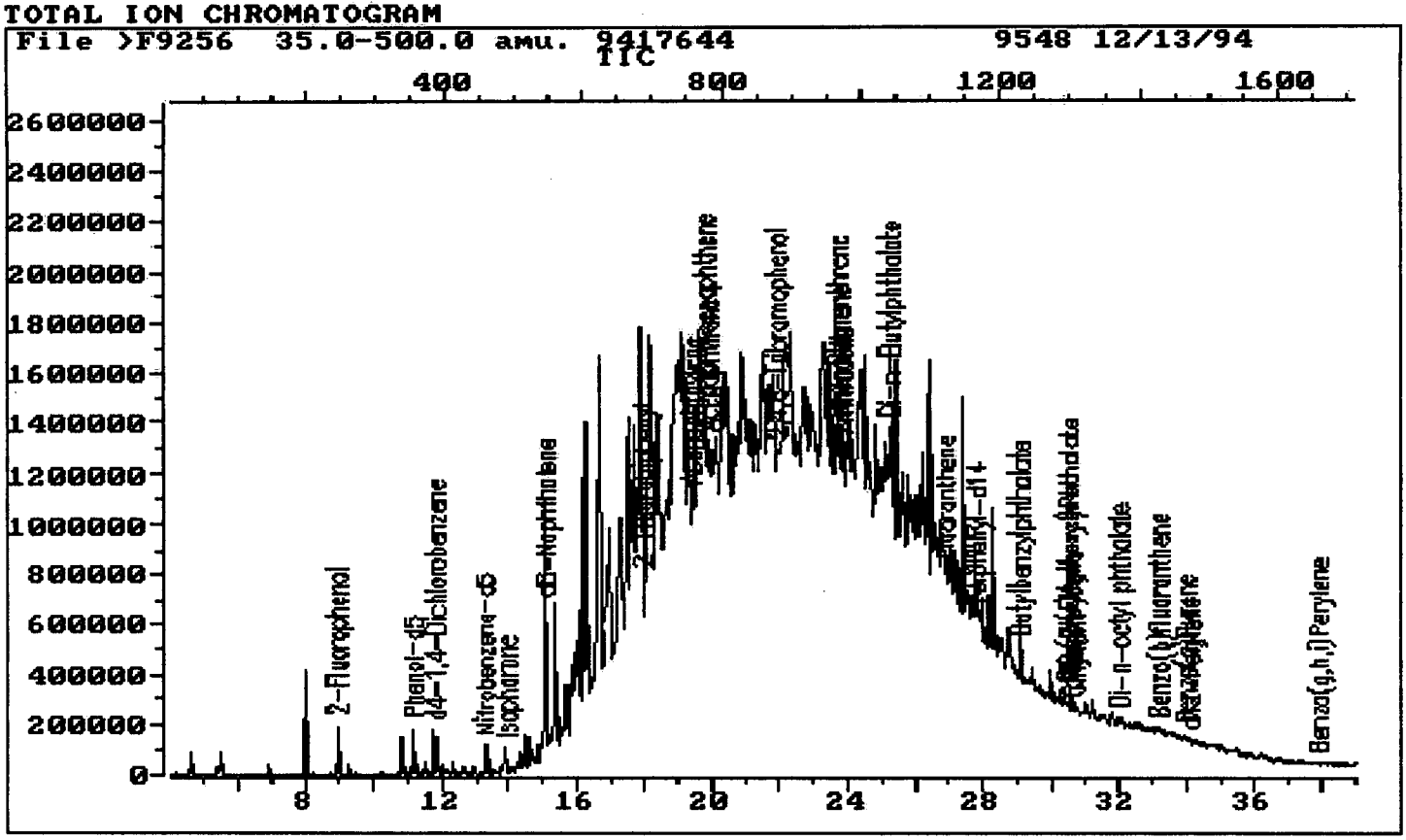
ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39
Last Qcal Time: 941216 18:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.81	384	80745	40.00	ug/l	98
4)	2-Fluorophenol	8.90	241	107940	42.70	ug/l	100
6)	Phenol-d5	11.15	352	122632	28.66	ug/l	73
19)	*d8-Naphthalene	15.06	544	206578	40.00	ug/l	81
20)	Nitrobenzene-d5	13.27	456	76829	19.17	ug/l	81
22)	Isophorone	13.90	487	59635	9.07	ug/l	94
34)	*d10-Acenaphthene	19.77	774	88884	40.00	ug/l	95
39)	2-Fluorobiphenyl	17.95	685	62690	16.91	ug/l	94
42)	Acenaphthylene	19.36	754	21873	6.71	ug/l	95
44)	Acenaphthene	19.85	778	22602	9.60	ug/l	94
54)	2,4,6-Tribromophenol	21.90	878	10692	9.96	ug/l	95
55)	*d10-Phenanthrene	23.69	965	104175	40.00	ug/l	100
62)	Phenanthrene	23.77	969	27068	12.28	ug/l	71
63)	Anthracene	23.86	973	26269	11.54	ug/l	82
65)	Di-n-Butylphthalate	25.23	1040	196554	57.00	ug/l	91
66)	Fluoranthene	26.88	1120	16892	5.49	ug/l	72
67)	*d12-Chrysene	30.56	1299	28271	40.00	ug/l	100
69)	Pyrene	27.45	1148	41361	48.74	ug/l	84
70)	Terphenyl-d14	27.80	1165	24091	32.76	ug/l	95
71)	Butylbenzylphthalate	29.06	1226	21476	47.49	ug/l	93
73)	Benzo(a)Anthracene	30.50	1296	4495	7.90	ug/l	89
74)	Bis(2-Ethylhexyl)Phthalate	30.52	1297	42098	96.37	ug/l	95
75)	Chrysene	30.62	1302	7322	10.15	ug/l	89
76)	*d12-Perylene	34.09	1471	22036	40.00	ug/l	100
77)	Di-n-octyl phthalate	32.00	1369	1478	2.55	ug/l	80
78)	Benzo(b)fluoranthene	33.17	1426	7772	14.30	ug/l	80
80)	Benzo(a)Pyrene	33.95	1464	4428	8.83	ug/l	90
83)	Benzo(g,h,i)Perylene	37.92	1658	7085	15.65	ug/l	95

* Compound is ISTD

356

TOTAL ION CHROMATOGRAM



Data File: >F9256::F1 Quant Output File: ^F9256::QT
Name: 9417644 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-SS-01 BTL# 5

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

Operator ID: PAUL
Quant Time : 941227 13:42
Injected at: 941216 18:49

357

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417645	DILUTION FACTOR	2
DATA FILE	>F9257	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/16/94
FIELD ID	BB-SS-02	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	860	59507	4-Chloro-3-methylphenol	U	860
95578	2-Chlorophenol	U	860	88062	2,4,6-Trichlorophenol	U	860
95487	2-Methylphenol	U	860	95954	2,4,5-Trichlorophenol	U	4300
108394	3&4-Methylphenol	U	860	51285	2,4-Dinitrophenol	U	4300
88755	2-Nitrophenol	U	860	100027	4-Nitrophenol	U	4300
105679	2,4-Dimethylphenol	U	860	534521	4,6-Dinitro-2-methylphenol	U	4300
120832	2,4-Dichlorophenol	U	860	87865	Pentachlorophenol	U	4300
111444	bis(-2-Chloroethyl)Ether	U	860	121142	2,4-Dinitrotoluene	U	860
541731	1,3-Dichlorobenzene	U	860	84662	Diethylphthalate	U	860
106467	1,4-Dichlorobenzene	U	860	7005723	4-Chlorophenyl-phenylether	U	860
100516	Benzyl Alcohol	U	860	86737	Fluorene	U	860
95501	1,2-Dichlorobenzene	U	860	100016	4-Nitroaniline	U	4300
108601	bis(2-Chloroisopropyl)ether	U	860	86306	N-Nitrosodiphenylamine	U	860
621647	N-Nitroso-Di-n-propylamine	U	860	101553	4-Bromophenyl-phenylether	U	860
67721	Hexachloroethane	U	860	118741	Hexachlorobenzene	U	860
98953	Nitrobenzene	U	860	85018	Phenanthrene	1600	860
78591	Isophorone	2900	860	120127	Anthracene	1800	860
65850	Benzoic Acid	UJ	4300	84742	Di-n-Butylphthalate	5700	860
111911	bis(-2-Chloroethoxy)Methane	U	860	206440	Fluoranthene	590 J	860
120821	1,2,4-Trichlorobenzene	U	860	129000	Pyrene	5200	860
91203	Naphthalene	550 J	860	85687	Butylbenzylphthalate	540 JJ	860
106478	4-Chloroaniline	U	860	91941	3,3'-Dichlorobenzidine	U	1700
87683	Hexachlorobutadiene	U	860	56553	Benzo(a)Anthracene	1100 R	860
91576	2-Methylnaphthalene	U	860	117817	Bis(2-Ethylhexyl)Phthalate	13000	860
77474	Hexachlorocyclopentadiene	U	860	218019	Chrysene	1300	860
91587	2-Chloronaphthalene	U	860	117840	Di-n-octyl phthalate	330 J	860
88744	2-Nitroaniline	U	4300	205992	Benzo(b)fluoranthene	U	860
131113	Dimethyl Phthalate	U	860	207089	Benzo(k)Fluoranthene	U	860
208968	Acenaphthylene	800 J	860	50328	Benzo(a)Pyrene	1100 I	860
99092	3-Nitroaniline	U	4300	193395	Indeno(1,2,3-cd)Pyrene	UJ	860
83329	Acenaphthene	1300	860	53703	Dibenzo(a,h)Anthracene	UJ	860
132649	Dibenzofuran	U	860	191242	Benzo(g,h,i)Perylene	2200 J	860
606202	2,6-Dinitrotoluene	U	860				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	50 %	23-120	OK
2-Fluorobiphenyl	43 %	30-115	OK
Terphenyl-d14	88 %	18-137	OK
Phenol-d5	36 %	24-113	OK
2-Fluorophenol	55 %	25-121	OK
2,4,6-Tribromophenol	12 %	19-122	OUT

Percent solid of 77.6 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.

47

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: PAUL
Output File: ^F9257::QT
Data File: >F9257::F1
Name: 9417645
Misc: 9548 12/13/94 RFWI

Quant Rev: 7
Quant Time: 941227 14:15
Injected at: 941216 19:39
Dilution Factor: 1.00000
Instrument ID: HP5970BF
BB-SS-02 BTL# 6

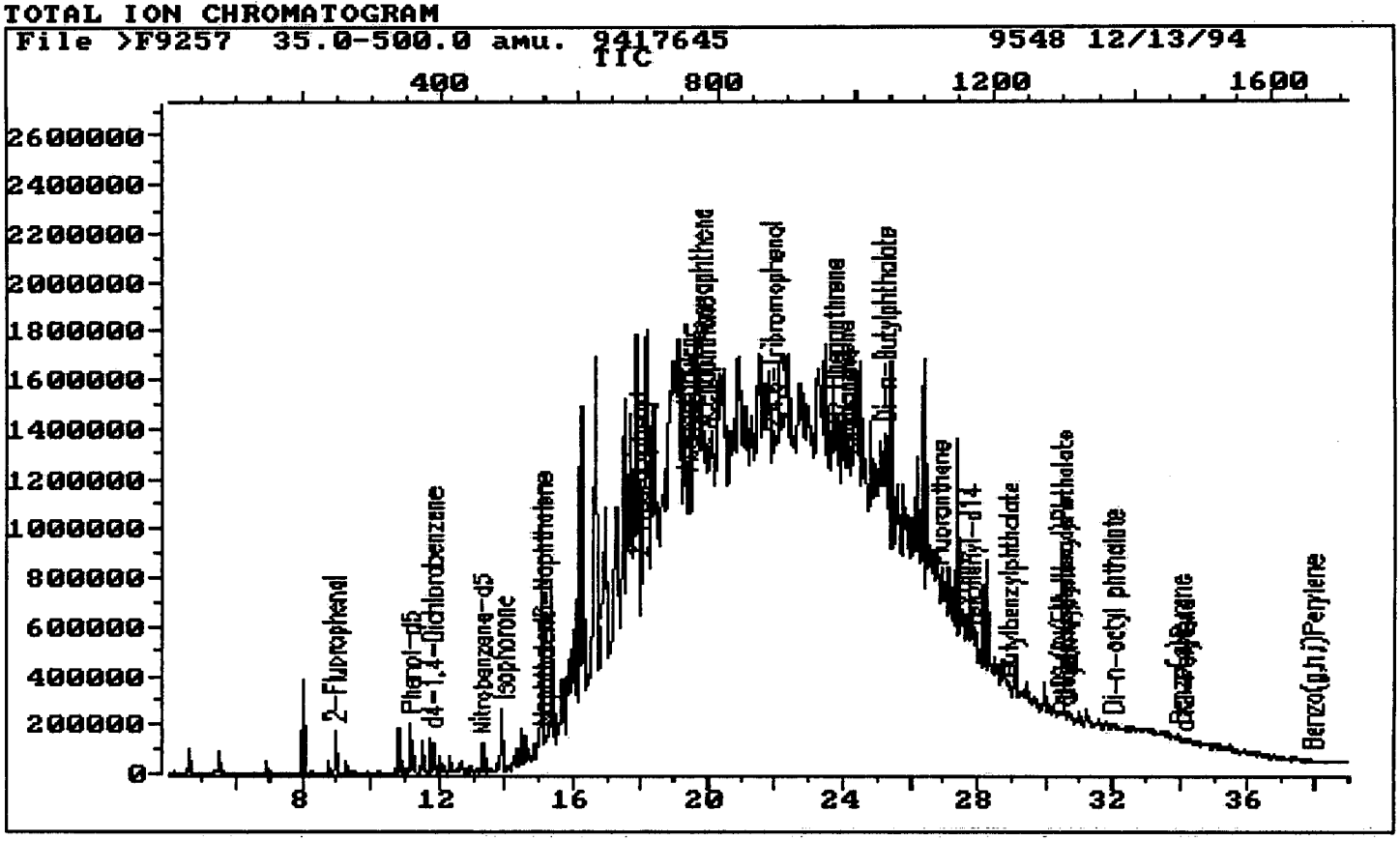
ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39
Last Qcal Time: 941216 18:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.81	384	63064	40.00	ug/l	98
4)	2-Fluorophenol	8.90	241	109401	55.41	ug/l	100
6)	Phenol-d5	11.15	352	120788	36.14	ug/l	77
19)	*d8-Naphthalene	15.06	544	157948	40.00	ug/l	74
20)	Nitrobenzene-d5	13.27	456	75881	24.77	ug/l	79
22)	Isophorone	13.90	487	169616	33.74	ug/l	95
29)	Naphthalene	15.11	546	22646	6.41	ug/l	81
34)	*d10-Acenaphthene	19.77	774	67903	40.00	ug/l	96
39)	2-Fluorobiphenyl	17.95	685	61175	21.60	ug/l	94
42)	Acenaphthylene	19.36	754	23081	9.27	ug/l	93
44)	Acenaphthene	19.85	778	27707	15.40	ug/l	98
54)	2,4,6-Tribromophenol	21.93	879	9627	11.73	ug/l	99
55)	*d10-Phenanthrene	23.71	966	67295	40.00	ug/l	100
62)	Phenanthrene	24.04	982	27279	19.16	ug/l	78
63)	Anthracene	24.12	986	30223	20.55	ug/l	83
65)	Di-n-Butylphthalate	25.23	1040	147616	66.27	ug/l	90
66)	Fluoranthene	26.86	1119	13727	6.91	ug/l	78
67)	*d12-Chrysene	30.54	1298	16650	40.00	ug/l	100
69)	Pyrene	27.45	1148	30347	60.72	ug/l	86
70)	Terphenyl-d14	27.78	1164	18996	43.86	ug/l	89
71)	Butylbenzylphthalate	28.91	1219	1670	6.27	ug/l	71
73)	Benzo(a)Anthracene	30.50	1296	4155	12.40	ug/l	91
74)	Bis(2-Ethylhexyl)Phthalate	30.50	1296	39467	153.41	ug/l	90
75)	Chrysene	30.60	1301	6527	15.36	ug/l	90
76)	*d12-Perylene	34.09	1471	13170	40.00	ug/l	100
77)	Di-n-octyl phthalate	32.00	1369	1325	3.83	ug/l	61
80)	Benzo(a)Pyrene	33.95	1464	3783	12.63	ug/l	75
83)	Benzo(g,h,i)Perylene	37.92	1658	6950	25.69	ug/l	98

* Compound is ISTD

358

TOTAL ION CHROMATOGRAM



Data File: >F9257::F1 Quant Output File: ^F9257::QT
Name: 9417645 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-SS-02 BTL# 6

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

Operator ID: PAUL
Quant Time : 941227 14:15
Injected at: 941216 19:39

359

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417646	DILUTION FACTOR	1
DATA FILE	>F9258	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/16/94
FIELD ID	BB-SS-03	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	430	59507	4-Chloro-3-methylphenol	U	430
95578	2-Chlorophenol	U	430	88062	2,4,6-Trichlorophenol	U	430
95487	2-Methylphenol	U	430	95954	2,4,5-Trichlorophenol	U	2100
108394	3&4-Methylphenol	180 J	430	51285	2,4-Dinitrophenol	U	2100
88755	2-Nitrophenol	U	430	100027	4-Nitrophenol	U	2100
105679	2,4-Dimethylphenol	U	430	534521	4,6-Dinitro-2-methylphenol	U	2100
120832	2,4-Dichlorophenol	U	430	87865	Pentachlorophenol	U	2100
111444	bis(-2-Chloroethyl)Ether	U	430	121142	2,4-Dinitrotoluene	U	430
541731	1,3-Dichlorobenzene	U	430	84662	Diethylphthalate	93 J	430
106467	1,4-Dichlorobenzene	U	430	7005723	4-Chlorophenyl-phenylether	U	430
100516	Benzyl Alcohol	U	430	86737	Fluorene	230 J	430
95501	1,2-Dichlorobenzene	U	430	100016	4-Nitroaniline	U	2100
108601	bis(2-Chloroisopropyl)ether	U	430	86306	N-Nitrosodiphenylamine	U	430
621647	N-Nitroso-Di-n-propylamine	U	430	101553	4-Bromophenyl-phenylether	U	430
67721	Hexachloroethane	U	430	118741	Hexachlorobenzene	U	430
98953	Nitrobenzene	U	430	85018	Phenanthrene	1900	430
78591	Isophorone	2400	430	120127	Anthracene	570	430
65850	Benzoic Acid	U J	2100	84742	Di-n-Butylphthalate	6100	430
111911	bis(-2-Chloroethoxy)Methane	U	430	206440	Fluoranthene	570	430
120821	1,2,4-Trichlorobenzene	U	430	129000	Pyrene	290 J	430
91203	Naphthalene	880	430	85687	Butylbenzylphthalate	510 J	430
106478	4-Chloroaniline	U	430	91941	3,3'-Dichlorobenzidine	U	860
87683	Hexachlorobutadiene	U	430	56553	Benzo(a)Anthracene	70 J	430
91576	2-Methylnaphthalene	U	430	117817	Bis(2-Ethylhexyl)Phthalate	1100	430
77474	Hexachlorocyclopentadiene	U	430	218019	Chrysene	110 J	430
91587	2-Chloronaphthalene	U	430	117840	Di-n-octyl phthalate	150 J	430
88744	2-Nitroaniline	U	2100	205992	Benzo(b)fluoranthene	U	430
131113	Dimethyl Phthalate	U	430	207089	Benzo(k)Fluoranthene	U	430
208968	Acenaphthylene	540	430	50328	Benzo(a)Pyrene	U	430
99092	3-Nitroaniline	U	2100	193395	Indeno(1,2,3-cd)Pyrene	U J	430
83329	Acenaphthene	120 J	430	53703	Dibenzo(a,h)Anthracene	U J	430
132649	Dibenzofuran	U	430	191242	Benzo(g,h,i)Perylene	U J	430
606202	2,6-Dinitrotoluene	U	430				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	55 %	23-120	OK
2-Fluorobiphenyl	75 %	30-115	OK
Terphenyl-d14	198 %	18-137	OUT
Phenol-d5	52 %	24-113	OK
2-Fluorophenol	90 %	25-121	OK
2,4,6-Tribromophenol	57 %	19-122	OK

Percent solid of 77.8 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.

48

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: PAUL
Quant Rev: 7
Quant Time: 941227 14:22
Output File: ^F9258::QT
Injected at: 941216 20:28
Data File: >F9258::F2
Dilution Factor: 1.00000
Name: 9417646
Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI
BB-SS-03 BTL# 7

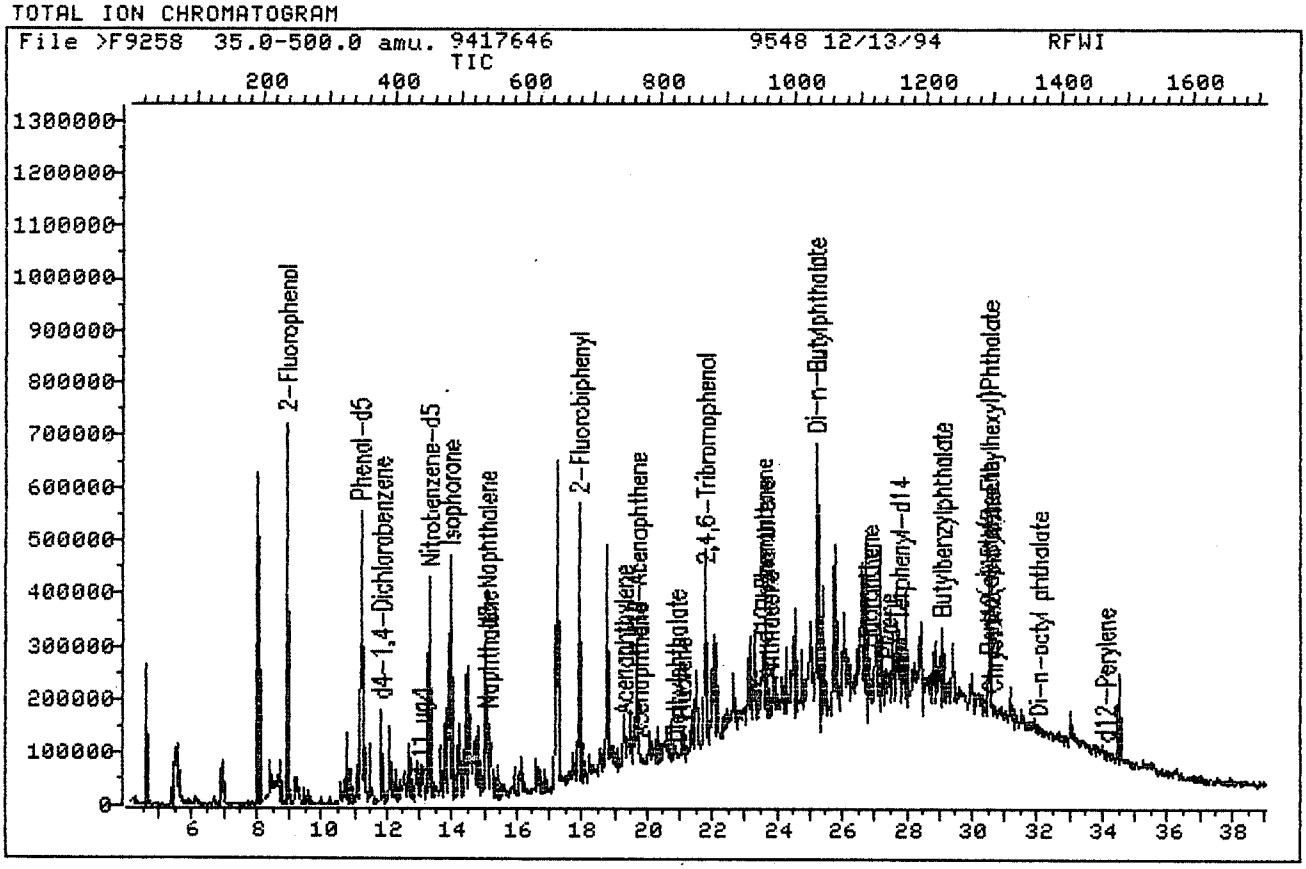
ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39
Last Qcal Time: 941216 18:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.82	378	68351	40.00	ug/l	94
4)	2-Fluorophenol	8.91	235	385825	180.31	ug/l	100
6)	Phenol-d5	11.17	346	411379	113.58	ug/l	87
16)	3&4-Methylphenol	13.02	437	8599	4.11	ug/l	88
19)	*d8-Naphthalene	15.06	537	228101	40.00	ug/l	79
20)	Nitrobenzene-d5	13.31	451	244746M	55.31	ug/l	97
22)	Isophorone	13.94	482	406271	55.96	ug/l	86
29)	Naphthalene	15.10	539	104544	20.50	ug/l	79
34)	*d10-Acenaphthene	19.67	763	112968	40.00	ug/l	97
39)	2-Fluorobiphenyl	17.91	677	355666	75.49	ug/l	94
42)	Acenaphthylene	19.26	743	52201	12.61	ug/l	91
44)	Acenaphthene	19.75	767	8690	2.90	ug/l	97
50)	Diethylphthalate	20.88	822	10762	2.18	ug/l	91
52)	Fluorene	21.06	831	15874	5.35	ug/l	92
54)	2,4,6-Tribromophenol	21.78	866	156375	114.56	ug/l	96
55)	*d10-Phenanthrene	23.54	952	122547	40.00	ug/l	100
62)	Phenanthrene	23.60	955	117639	45.38	ug/l	78
63)	Anthracene	23.72	961	35372	13.21	ug/l	82
65)	Di-n-Butylphthalate	25.18	1032	581334	143.31	ug/l	92
66)	Fluoranthene	26.80	1111	48357	13.37	ug/l	75
67)	*d12-Chrysene	30.53	1293	13144	40.00	ug/l	100
69)	Pyrene	27.39	1140	68359	173.26	ug/l	87
70)	Terphenyl-d14	27.76	1158	67539	197.55	ug/l	84
71)	Butylbenzylphthalate	29.05	1221	63000	299.65	ug/l	97
73)	Benzo(a)Anthracene	30.49	1291	12565	47.51	ug/l	90
74)	Bis(2-Ethylhexyl)Phthalate	30.51	1292	147655	727.03	ug/l	90
75)	Chrysene	30.59	1296	19858	59.19	ug/l	91
76)	*d12-Perylene	34.08	1466	12917	40.00	ug/l	100
77)	Di-n-octyl phthalate	32.03	1366	1188	3.50	ug/l	77

* Compound is ISTD

360

TOTAL ION CHROMATOGRAM



Data File: >F9258::F2 Quant Output File: ^F9258::QT
Name: 9417646 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-SS-03 BTL# 7

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

Operator ID: PAUL
Quant Time : 941227 14:22
Injected at: 941216 20:28

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417647	DILUTION FACTOR	2
DATA FILE	>F9259	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/16/94
FIELD ID	BB-SS-04	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	790
95578	2-Chlorophenol	U	790
95487	2-Methylphenol	U	790
108394	3&4-Methylphenol	U	790
88755	2-Nitrophenol	U	790
105679	2,4-Dimethylphenol	U	790
120832	2,4-Dichlorophenol	U	790
111444	bis(-2-Chloroethyl)Ether	U	790
541731	1,3-Dichlorobenzene	U	790
106467	1,4-Dichlorobenzene	U	790
100516	Benzyl Alcohol	U	790
95501	1,2-Dichlorobenzene	U	790
108601	bis(2-Chloroisopropyl)ether	U	790
621647	N-Nitroso-Di-n-propylamine	U	790
67721	Hexachloroethane	U	790
98953	Nitrobenzene	U	790
78591	Isophorone	6300	790
65850	Benzoic Acid	UJ	3900
111911	bis(-2-Chloroethoxy)Methane	U	790
120821	1,2,4-Trichlorobenzene	U	790
91203	Naphthalene	1400	790
106478	4-Chloroaniline	U	790
87683	Hexachlorobutadiene	U	790
91576	2-Methylnaphthalene	U	790
77474	Hexachlorocyclopentadiene	U	790
91587	2-Chloronaphthalene	U	790
88744	2-Nitroaniline	U	3900
131113	Dimethyl Phthalate	U	790
208968	Acenaphthylene	1400	790
99092	3-Nitroaniline	U	3900
83329	Acenaphthene	180 J	790
132649	Dibenzofuran	U	790
606202	2,6-Dinitrotoluene	U	790
59507	4-Chloro-3-methylphenol	U	790
88062	2,4,6-Trichlorophenol	U	790
95954	2,4,5-Trichlorophenol	U	3900
51285	2,4-Dinitrophenol	U	3900
100027	4-Nitrophenol	U	3900
534521	4,6-Dinitro-2-methylphenol	U	3900
87865	Pentachlorophenol	U	3900
121142	2,4-Dinitrotoluene	U	790
84662	Diethylphthalate	180 J	790
7005723	4-Chlorophenyl-phenylether	U	790
86737	Fluorene	750 J	790
100016	4-Nitroaniline	U	3900
86306	N-Nitrosodiphenylamine	U	790
101553	4-Bromophenyl-phenylether	U	790
118741	Hexachlorobenzene	U	790
85018	Phenanthrene	4200	790
120127	Anthracene	1200	790
84742	Di-n-Butylphthalate	U	790
206440	Fluoranthene	1200	790
129000	Pyrene	250 J	790
85687	Butylbenzylphthalate	400 ~~J~~	790
91941	3,3'-Dichlorobenzidine	U	1600
56553	Benzo(a)Anthracene	120 J	790
117817	Bis(2-Ethylhexyl)Phthalate	3000	790
218019	Chrysene	170 J	790
117840	Di-n-octyl phthalate	490 J	790
205992	Benzo(b)fluoranthene	U	790
207089	Benzo(k)Fluoranthene	U	790
50328	Benzo(a)Pyrene	U	790
193395	Indeno(1,2,3-cd)Pyrene	UJ	790
53703	Dibenzo(a,h)Anthracene	UJ	790
191242	Benzo(g,h,i)Perylene	UJ	790

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	71 %	23-120	OK
2-Fluorobiphenyl	97 %	30-115	OK
Terphenyl-d14	334 %	18-137	OUT
Phenol-d5	82 %	24-113	OK
2-Fluorophenol	125 %	25-121	OUT
2,4,6-Tribromophenol	94 %	19-122	OK

No action

Percent solid of 84.7 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.

49

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: PAUL
Quant Rev: 7
Quant Time: 941227 14:23
Output File: ^F9259::QT
Injected at: 941216 21:18
Data File: >F9259::F2
Dilution Factor: 1.00000
Name: 9417647
Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI
BB-SS-04 BTL# 8

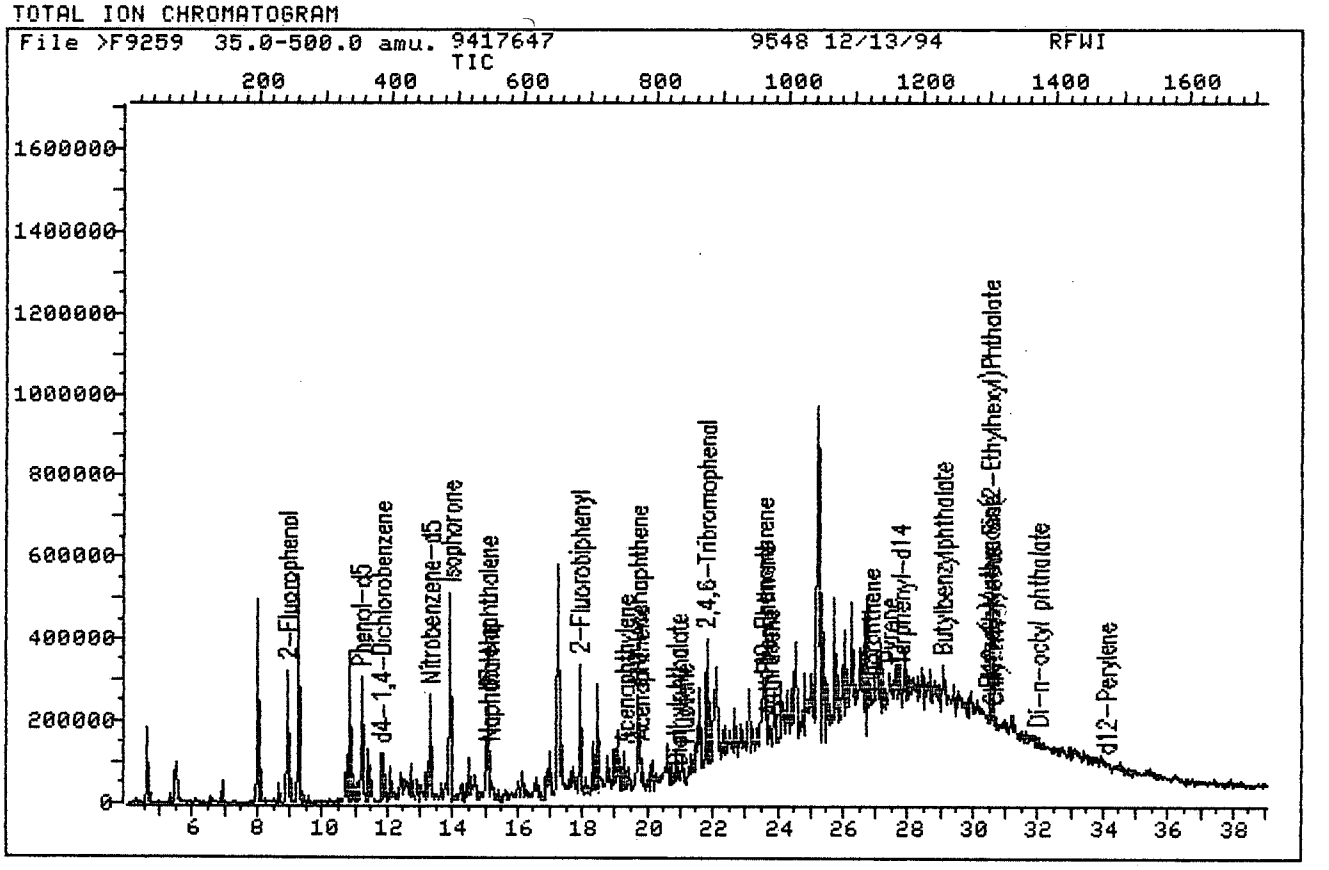
ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39
Last Qcal Time: 941216 18:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.81	384	52666	40.00	ug/l	98
4)	2-Fluorophenol	8.92	242	205328	124.54	ug/l	100
6)	Phenol-d5	11.17	353	229558	82.26	ug/l	72
19)	*d8-Naphthalene	15.06	544	192346	40.00	ug/l	77
20)	Nitrobenzene-d5	13.29	457	132078M	35.40	ug/l	
22)	Isophorone	13.92	488	492816	80.50	ug/l	93
29)	Naphthalene	15.10	546	73941	17.20	ug/l	79
34)	*d10-Acenaphthene	19.67	770	113320	40.00	ug/l	96
39)	2-Fluorobiphenyl	17.89	683	228905	48.43	ug/l	95
42)	Acenaphthylene	19.28	751	73681	17.74	ug/l	92
44)	Acenaphthene	19.75	774	6915	2.30	ug/l	93
50)	Diethylphthalate	20.89	830	11400	2.30	ug/l	89
52)	Fluorene	21.08	839	28466	9.56	ug/l	96
54)	2,4,6-Tribromophenol	21.79	874	128816	94.07	ug/l	99
55)	*d10-Phenanthrene	23.56	960	119614	40.00	ug/l	100
62)	Phenanthrene	23.62	963	135179	53.43	ug/l	77
63)	Anthracene	23.72	968	38514	14.73	ug/l	80
66)	Fluoranthene	26.83	1120	51783M	14.67	ug/l	83
67)	*d12-Chrysene	30.55	1301	12877	40.00	ug/l	100
69)	Pyrene	27.41	1148	63835	165.14	ug/l	88
70)	Terphenyl-d14	27.76	1165	56003	167.21	ug/l	83
71)	Butylbenzylphthalate	29.05	1228	25273	122.70	ug/l	98
73)	Benzo(a)Anthracene	30.49	1298	11954	46.13	ug/l	90
74)	Bis(2-Ethylhexyl)Phthalate	30.53	1300	239320	1202.80	ug/l	95
75)	Chrysene	30.61	1304	16380	49.83	ug/l	89
76)	*d12-Perylene	34.08	1473	12351	40.00	ug/l	100
77)	Di-n-octyl phthalate	31.99	1371	2017	6.21	ug/l	95

* Compound is ISTD

362

TOTAL ION CHROMATOGRAM



Data File: >F9259::F2 Quant Output File: ^F9259::QT
Name: 9417647 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-SS-04 BTL# 8

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

Operator ID: PAUL
Quant Time : 941227 14:23
Injected at: 941216 21:18

363

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417648	DILUTION FACTOR	1
DATA FILE	>F9260	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/16/94
FIELD ID	BB-SS-05	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	420	59507	4-Chloro-3-methylphenol	U	420
95578	2-Chlorophenol	U	420	88062	2,4,6-Trichlorophenol	U	420
95487	2-Methylphenol	1100	420	95954	2,4,5-Trichlorophenol	U	2100
108394	3&4-Methylphenol	3000	420	51285	2,4-Dinitrophenol	U	2100
88755	2-Nitrophenol	U	420	100027	4-Nitrophenol	U	2100
105679	2,4-Dimethylphenol	U	420	534521	4,6-Dinitro-2-methylphenol	U	2100
120832	2,4-Dichlorophenol	U	420	87865	Pentachlorophenol	U	2100
111444	bis(-2-Chloroethyl)Ether	U	420	121142	2,4-Dinitrotoluene	U	420
541731	1,3-Dichlorobenzene	U	420	84662	Diethylphthalate	U	420
106467	1,4-Dichlorobenzene	U	420	7005723	4-Chlorophenyl-phenylether	U	420
100516	Benzyl Alcohol	U	420	86737	Fluorene	U	420
95501	1,2-Dichlorobenzene	U	420	100016	4-Nitroaniline	U	2100
108601	bis(2-Chloroisopropyl)ether	U	420	86306	N-Nitrosodiphenylamine	U	420
621647	N-Nitroso-Di-n-propylamine	U	420	101553	4-Bromophenyl-phenylether	U	420
67721	Hexachloroethane	U	420	118741	Hexachlorobenzene	U	420
98953	Nitrobenzene	U	420	85018	Phenanthrene	660	420
78591	Isophorone	3500	420	120127	Anthracene	480	420
65850	Benzoic Acid	UJ	2100	84742	Di-n-Butylphthalate	4000	420
111911	bis(-2-Chloroethoxy)Methane	U	420	206440	Fluoranthene	590	420
120821	1,2,4-Trichlorobenzene	U	420	129000	Pyrene	150 J	420
91203	Naphthalene	620	420	85687	Butylbenzylphthalate	U	420
106478	4-Chloroaniline	U	420	91941	3,3'-Dichlorobenzidine	U	840
87683	Hexachlorobutadiene	U	420	56553	Benzo(a)Anthracene	900	420
91576	2-Methylnaphthalene	630	420	117817	Bis(2-Ethylhexyl)Phthalate	300 J	420
77474	Hexachlorocyclopentadiene	U	420	218019	Chrysene	160 J	420
91587	2-Chloronaphthalene	U	420	117840	Di-n-octyl phthalate	230 J	420
88744	2-Nitroaniline	U	2100	205992	Benzo(b)fluoranthene	U	420
131113	Dimethyl Phthalate	U	420	207089	Benzo(k)Fluoranthene	U	420
208968	Acenaphthylene	U	420	50328	Benzo(a)Pyrene	U	420
99092	3-Nitroaniline	U	2100	193395	Indeno(1,2,3-cd)Pyrene	UJ	420
83329	Acenaphthene	U	420	53703	Dibenzo(a,h)Anthracene	UJ	420
132649	Dibenzofuran	U	420	191242	Benzo(g,h,i)Perylene	UJ	420
606202	2,6-Dinitrotoluene	U	420				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	70 %	23-120	OK
2-Fluorobiphenyl	100 %	30-115	OK
Terphenyl-d14	290 %	18-137	OUT
Phenol-d5	82 %	24-113	OK
2-Fluorophenol	124 %	25-121	OUT
2,4,6-Tribromophenol	62 %	19-122	OK

— no action

Percent solid of 79.2 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: PAUL
Quant Rev: 7
Quant Time: 941227 14:25
Output File: ^F9260::QT
Injected at: 941216 22:08
Data File: >F9260::F2
Dilution Factor: 1.00000
Name: 9417648
Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI
BB-SS-05 BTL# 9

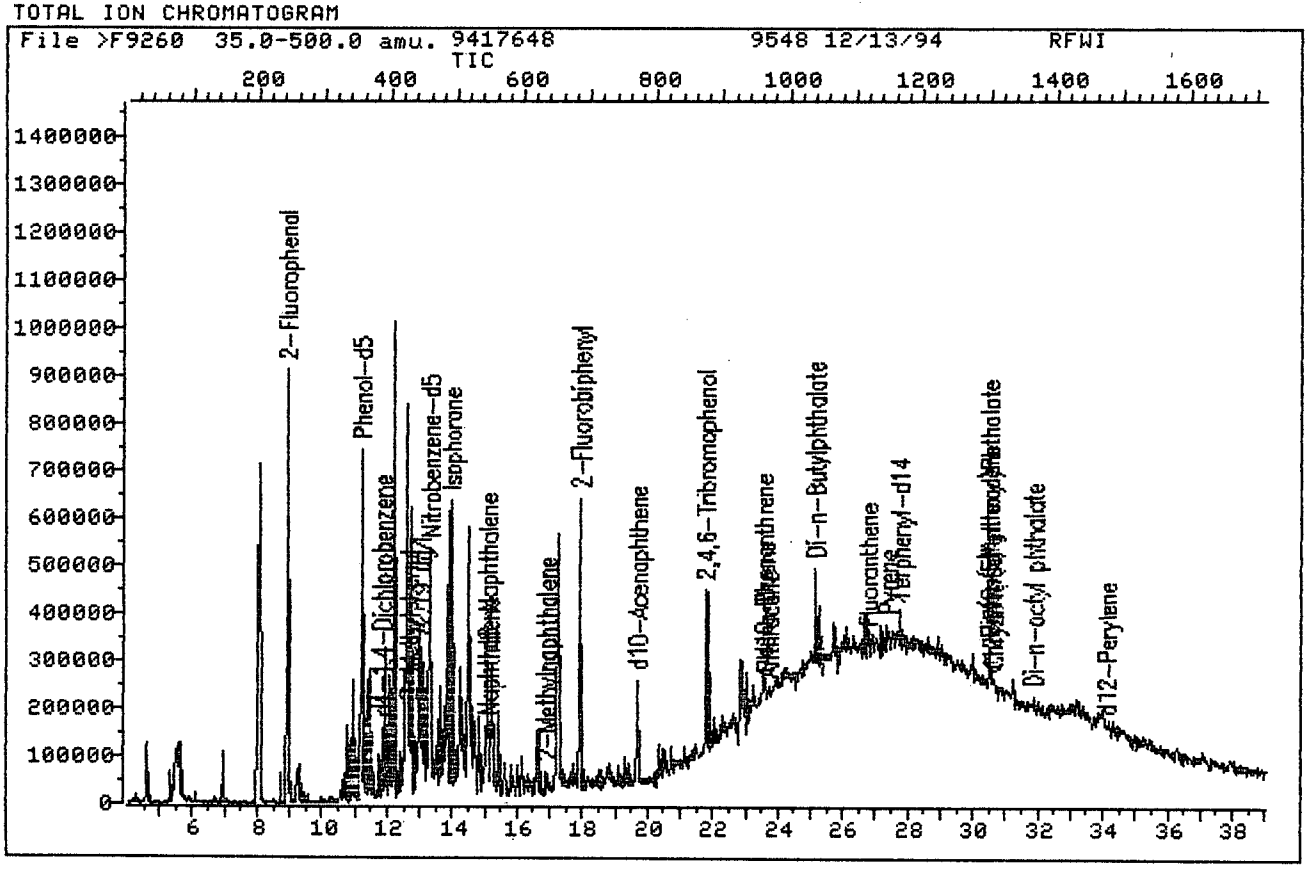
ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39
Last Qcal Time: 941216 18:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.83	385	60413	40.00	ug/l	95
4)	2-Fluorophenol	8.92	242	468138	247.53	ug/l	100
6)	Phenol-d5	11.19	354	523140	163.41	ug/l	84
14)	2-Methylphenol	12.64	425	47301M	26.79	ug/l	70
16)	3&4-Methylphenol	13.03	444	133509	72.19	ug/l	87
19)	*d8-Naphthalene	15.07	544	197856	40.00	ug/l	79
20)	Nitrobenzene-d5	13.31	458	269366	70.18	ug/l	75
22)	Isophorone	13.97	490	520211	82.61	ug/l	88
29)	Naphthalene	15.11	546	65650	14.84	ug/l	82
33)	2-Methylnaphthalene	16.88	633	21452M	15.03	ug/l	
34)	*d10-Acenaphthene	19.68	770	105057	40.00	ug/l	95
39)	2-Fluorobiphenyl	17.92	684	437321	99.81	ug/l	94
54)	2,4,6-Tribromophenol	21.78	873	156582	123.35	ug/l	99
55)	*d10-Phenanthrene	23.54	959	70186	40.00	ug/l	100
62)	Phenanthrene	23.61	962	23293	15.69	ug/l	76
63)	Anthracene	23.73	968	17484	11.40	ug/l	82
65)	Di-n-Butylphthalate	25.14	1037	219928	94.66	ug/l	94
66)	Fluoranthene	26.77	1116	29069	14.03	ug/l	79
67)	*d12-Chrysene	30.55	1300	7096	40.00	ug/l	100
69)	Pyrene	27.38	1146	35749	167.83	ug/l	91
70)	Terphenyl-d14	27.75	1164	53581	290.31	ug/l	87
73)	Benzo(a)Anthracene	30.51	1298	15440	108.13	ug/l	95
74)	Bis(2-Ethylhexyl)Phthalate	30.51	1298	42178	384.68	ug/l	89
75)	Chrysene	30.61	1303	29120	160.77	ug/l	92
76)	*d12-Perylene	34.11	1473	10305	40.00	ug/l	100
77)	Di-n-octyl phthalate	31.85	1363	1488	5.49	ug/l	98

* Compound is ISTD

364

TOTAL ION CHROMATOGRAM



Data File: >F9260::F2 Quant Output File: ^F9260::QT
Name: 9417648 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-SS-05 BTL# 9

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

Operator ID: PAUL
Quant Time : 941227 14:25
Injected at: 941216 22:08

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417649	DILUTION FACTOR	1
DATA FILE	>F9261	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/16/94
FIELD ID	BB-SS-06	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	450	59507	4-Chloro-3-methylphenol	U	450
95578	2-Chlorophenol	U	450	88062	2,4,6-Trichlorophenol	U	450
95487	2-Methylphenol	U	450	95954	2,4,5-Trichlorophenol	U	2300
108394	3&4-Methylphenol	U	450	51285	2,4-Dinitrophenol	U	2300
88755	2-Nitrophenol	U	450	100027	4-Nitrophenol	U	2300
105679	2,4-Dimethylphenol	U	450	534521	4,6-Dinitro-2-methylphenol	U	2300
120832	2,4-Dichlorophenol	U	450	87865	Pentachlorophenol	U	2300
111444	bis(-2-Chloroethyl)Ether	U	450	121142	2,4-Dinitrotoluene	U	450
541731	1,3-Dichlorobenzene	U	450	84662	Diethylphthalate	U	450
106467	1,4-Dichlorobenzene	U	450	7005723	4-Chlorophenyl-phenylether	U	450
100516	Benzyl Alcohol	U	450	86737	Fluorene	U	450
95501	1,2-Dichlorobenzene	U	450	100016	4-Nitroaniline	U	2300
108601	bis(2-Chloroisopropyl)ether	U	450	86306	N-Nitrosodiphenylamine	U	450
621647	N-Nitroso-Di-n-propylamine	U	450	101553	4-Bromophenyl-phenylether	U	450
67721	Hexachloroethane	U	450	118741	Hexachlorobenzene	U	450
98953	Nitrobenzene	U	450	85018	Phenanthrene	U	450
78591	Isophorone	900	450	120127	Anthracene	U	450
65850	Benzoic Acid	U J	2300	84742	Di-n-Butylphthalate	1900	450
111911	bis(-2-Chloroethoxy)Methane	U	450	206440	Fluoranthene	1600	450
120821	1,2,4-Trichlorobenzene	U	450	129000	Pyrene	30 J	450
91203	Naphthalene	U	450	85687	Butylbenzylphthalate	U	450
106478	4-Chloroaniline	U	450	91941	3,3'-Dichlorobenzidine	U	910
87683	Hexachlorobutadiene	U	450	56553	Benzo(a)Anthracene	U	450
91576	2-Methylnaphthalene	U	450	117817	Bis(2-Ethylhexyl)Phthalate	40 J	450
77474	Hexachlorocyclopentadiene	U	450	218019	Chrysene	U	450
91587	2-Chloronaphthalene	U	450	117840	Di-n-octyl phthalate	U	450
88744	2-Nitroaniline	U	2300	205992	Benzo(b)fluoranthene	U	450
131113	Dimethyl Phthalate	U	450	207089	Benzo(k)Fluoranthene	U	450
208968	Acenaphthylene	U	450	50328	Benzo(a)Pyrene	U	450
99092	3-Nitroaniline	U	2300	193395	Indeno(1,2,3-cd)Pyrene	U	450
83329	Acenaphthene	U	450	53703	Dibenzo(a,h)Anthracene	U	450
132649	Dibenzofuran	U	450	191242	Benzo(g,h,i)Perylene	U	450
606202	2,6-Dinitrotoluene	U	450				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	35 %	23-120	OK
2-Fluorobiphenyl	81 %	30-115	OK
Terphenyl-d14	233 %	18-137	OUT
Phenol-d5	38 %	24-113	OK
2-Fluorophenol	70 %	25-121	OK
2,4,6-Tribromophenol	71 %	19-122	OK

Percent solid of 73.3 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: PAUL
Quant Rev: 7
Quant Time: 941227 14:26
Output File: ^F9261::QT
Injected at: 941216 22:57
Data File: >F9261::F2
Dilution Factor: 1.00000
Name: 9417649
Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI
BB-SS-06 BTL#10

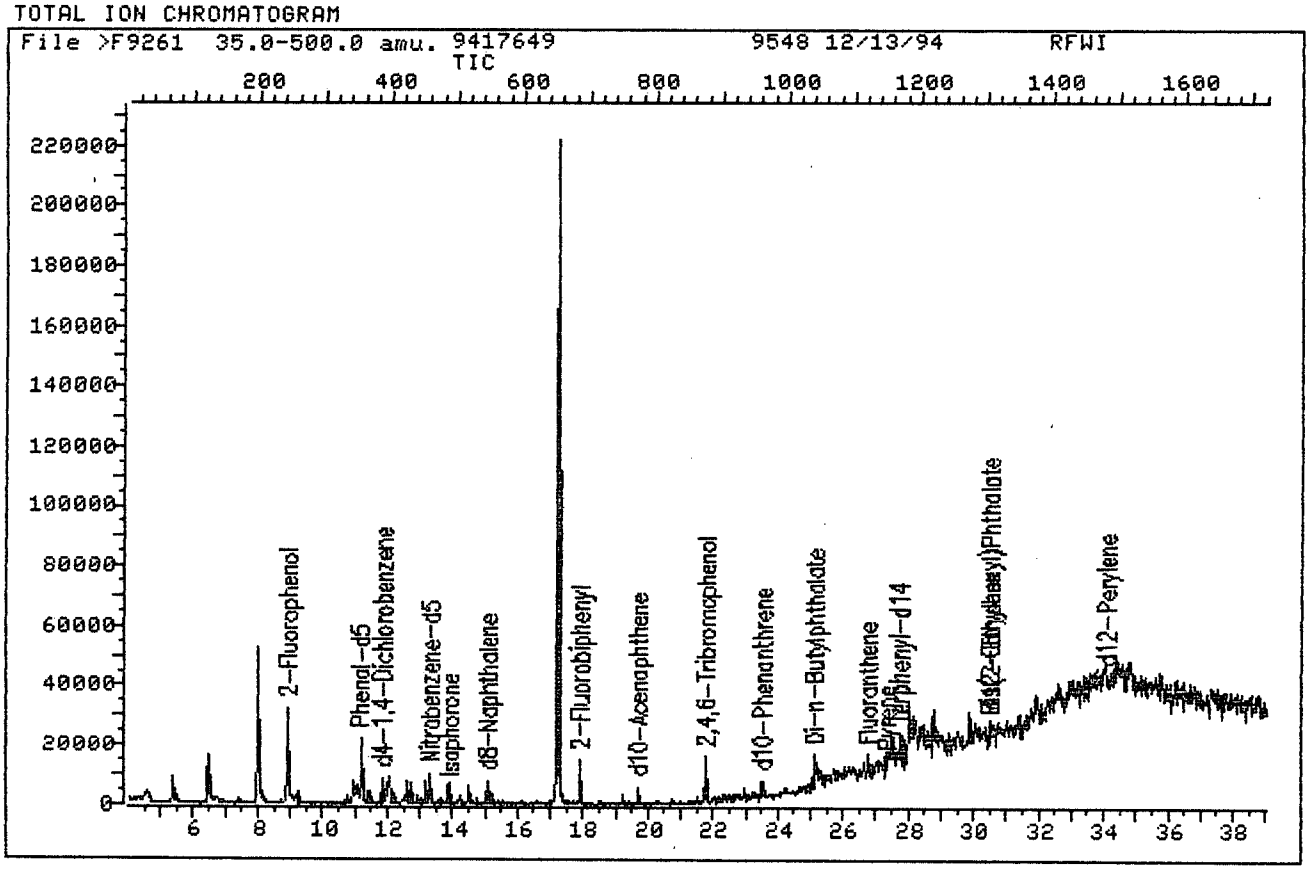
ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39
Last Qcal Time: 941216 18:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.82	385	3495	40.00	ug/l	94
4)	2-Fluorophenol	8.92	242	15312	139.95	ug/l	100
6)	Phenol-d5	11.15	352	14130M	76.30	ug/l	
19)	*d8-Naphthalene	15.06	544	9234	40.00	ug/l	90
20)	Nitrobenzene-d5	13.29	457	6251	34.90	ug/l	75
22)	Isophorone	13.90	487	5843	19.88	ug/l	89
34)	*d10-Acenaphthene	19.67	771	4523	40.00	ug/l	96
39)	2-Fluorobiphenyl	17.88	683	15250	80.84	ug/l	97
54)	2,4,6-Tribromophenol	21.77	874	7809	142.88	ug/l	95
55)	*d10-Phenanthrene	23.52	960	8312	40.00	ug/l	100
65)	Di-n-Butylphthalate	25.11	1038	11503	41.81	ug/l	97
66)	Fluoranthene	26.73	1118	8863M	36.12	ug/l	
67)	*d12-Chrysene	30.51	1303	1727	40.00	ug/l	100
69)	Pyrene	27.33	1147	7691	148.36	ug/l	78
70)	Terphenyl-d14	27.71	1166	10486	233.44	ug/l	86
74)	Bis(2-Ethylhexyl)Phthalate	30.49	1302	4628	173.43	ug/l	81
76)	*d12-Perylene	34.08	1478	144M	40.00	ug/l	

* Compound is ISTD

366

TOTAL ION CHROMATOGRAM



Data File: >F9261::F2 Quant Output File: ^F9261::QT
Name: 9417649 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-SS-06 BTL#10

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

Operator ID: PAUL
Quant Time : 941227 14:26
Injected at: 941216 22:57

367

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417650	DILUTION FACTOR	5/50
DATA FILE	>F9262/>B7928	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/16/94
FIELD ID	BB-SS-07	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	2100	59507	4-Chloro-3-methylphenol	U	2100
95578	2-Chlorophenol	U	2100	88062	2,4,6-Trichlorophenol	U	2100
95487	2-Methylphenol	U	2100	95954	2,4,5-Trichlorophenol	U	10000
108394	3&4-Methylphenol	U	2100	51285	2,4-Dinitrophenol	U	10000
88755	2-Nitrophenol	U	2100	100027	4-Nitrophenol	U	10000
105679	2,4-Dimethylphenol	U	2100	534521	4,6-Dinitro-2-methylphenol	U	10000
120832	2,4-Dichlorophenol	U	2100	87865	Pentachlorophenol	U	10000
111444	bis(-2-Chloroethyl)Ether	U	2100	121142	2,4-Dinitrotoluene	U	2100
541731	1,3-Dichlorobenzene	U	2100	84662	Diethylphthalate	U	2100
106467	1,4-Dichlorobenzene	U	2100	7005723	4-Chlorophenyl-phenylether	U	2100
100516	Benzyl Alcohol	U	2100	86737	Fluorene	280 J	2100
95501	1,2-Dichlorobenzene	U	2100	100016	4-Nitroaniline	U	10000
108601	bis(2-Chloroisopropyl)ether	U	2100	86306	N-Nitrosodiphenylamine	U	2100
621647	N-Nitroso-Di-n-propylamine	U	2100	101553	4-Bromophenyl-phenylether	U	2100
67721	Hexachloroethane	U	2100	118741	Hexachlorobenzene	U	2100
98953	Nitrobenzene	U	2100	85018	Phenanthrene	2400	2100
78591	Isophorone	3900	2100	120127	Anthracene	1200 J	2100
65850	Benzoic Acid	U	10000	84742	Di-n-Butylphthalate	6600	2100
111911	bis(-2-Chloroethoxy)Methane	U	2100	206440	Fluoranthene	2400	2100
120821	1,2,4-Trichlorobenzene	U	2100	129000	Pyrene	25000	2100
91203	Naphthalene	810 J	2100	85687	Butylbenzylphthalate	U	2100
106478	4-Chloroaniline	U	2100	91941	3,3'-Dichlorobenzidine	U	4100
87683	Hexachlorobutadiene	U	2100	56553	Benzo(a)Anthracene	5400 I	2100
91576	2-Methylnaphthalene	U	2100	117817	Bis(2-Ethylhexyl)Phthalate	27000	2100
77474	Hexachlorocyclopentadiene	U	2100	218019	Chrysene	7300	2100
91587	2-Chloronaphthalene	U	2100	117840	Di-n-octyl phthalate	2800	2100
88744	2-Nitroaniline	U	10000	205992	Benzo(b)fluoranthene	U	2100
131113	Dimethyl Phthalate	U	2100	207089	Benzo(k)Fluoranthene	U	2100
208968	Acenaphthylene	4100	2100	50328	Benzo(a)Pyrene	8500 I	2100
99092	3-Nitroaniline	U	10000	193395	Indeno(1,2,3-cd)Pyrene	3200 J	2100
83329	Acenaphthene	U	2100	53703	Dibenzo(a,h)Anthracene	9400 J	2100
132649	Dibenzofuran	U	2100	191242	Benzo(g,h,i)Perylene	U J	2100
606202	2,6-Dinitrotoluene	U	2100				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	32 %	23-120	OK
2-Fluorobiphenyl	57 %	30-115	OK
Terphenyl-d14	206 %	18-137	OUT
Phenol-d5	39 %	24-113	OK
2-Fluorophenol	33 %	25-121	OK
2,4,6-Tribromophenol	24 %	19-122	OK

Percent solid of 80.8 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.

52

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: PAUL
Output File: ^F9262::QT
Data File: >F9262::F2
Name: 9417650
Misc: 9548 12/13/94 RFWI

Quant Rev: 7
Quant Time: 941227 14:28
Injected at: 941216 23:47
Dilution Factor: 1.00000
Instrument ID: HP5970BF
BB-SS-07 BTL#11

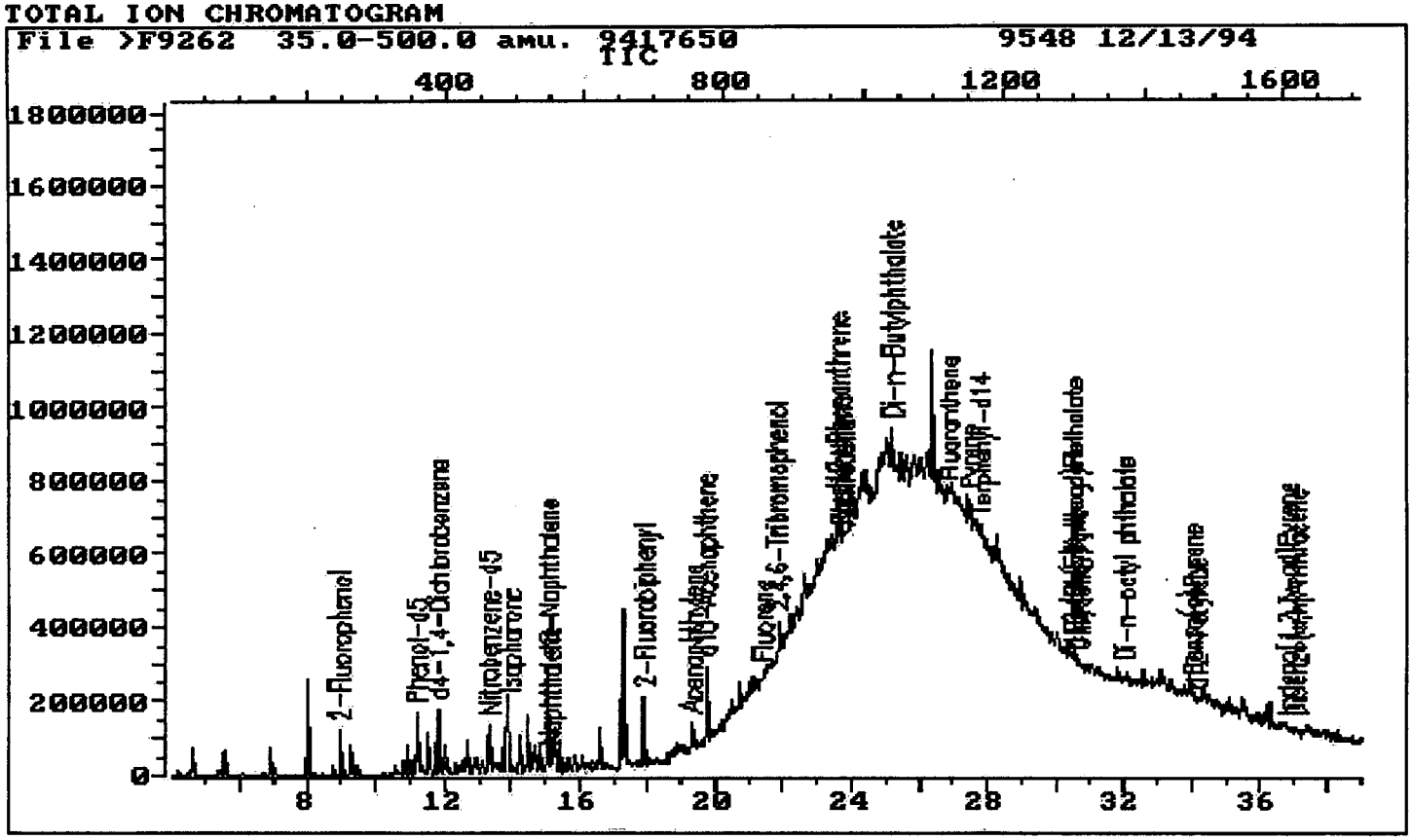
ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39
Last Qcal Time: 941216 18:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.83	385	65147	40.00	ug/l	94
4)	2-Fluorophenol	8.92	242	93938	46.06	ug/l	100
6)	Phenol-d5	11.17	353	101353M	29.36	ug/l	
19)	*d8-Naphthalene	15.06	544	214482	40.00	ug/l	78
20)	Nitrobenzene-d5	13.29	457	62024M	14.91	ug/l	87
22)	Isophorone	13.92	488	128862	18.88	ug/l	90
29)	Naphthalene	15.10	546	18769	3.91	ug/l	82
34)	*d10-Acenaphthene	19.69	771	110798	40.00	ug/l	96
39)	2-Fluorobiphenyl	17.90	683	109524M	23.70	ug/l	95
42)	Acenaphthylene	19.29	751	80062	19.71	ug/l	91
52)	Fluorene	21.39	854	4009	1.38	ug/l	98
54)	2,4,6-Tribromophenol	21.80	874	28801	21.51	ug/l	96
55)	*d10-Phenanthrene	23.59	961	57817	40.00	ug/l	100
62)	Phenanthrene	23.65	964	14288	11.68	ug/l	74
63)	Anthracene	23.77	970	7313	5.79	ug/l	78
65)	Di-n-Butylphthalate	25.19	1039	60965	31.86	ug/l	97
66)	Fluoranthene	26.86	1120	19525	11.44	ug/l	75
67)	*d12-Chrysene	30.57	1300	8536	40.00	ug/l	100
69)	Pyrene	27.46	1149	31455	122.76	ug/l	82
70)	Terphenyl-d14	27.81	1166	10071	45.36	ug/l	94
73)	Benzo(a)Anthracene	30.53	1298	4535	26.40	ug/l	78
74)	Bis(2-Ethylhexyl)Phthalate	30.53	1298	17048	129.26	ug/l	96
75)	Chrysene	30.63	1303	7669	35.20	ug/l	90
76)	*d12-Perylene	34.12	1472	7347	40.00	ug/l	100
77)	Di-n-octyl phthalate	32.03	1371	2656	13.75	ug/l	82
80)	Benzo(a)Pyrene	33.99	1466	6873	41.12	ug/l	82
81)	Indeno(1,2,3-cd)Pyrene	36.82	1603	2612	15.65	ug/l	83
82)	Dibenzo(a,h)Anthracene	37.08	1616	6858	45.63	ug/l	85

* Compound is ISTD

368

TOTAL ION CHROMATOGRAM



Data File: >F9262::F2 Quant Output File: ^F9262::QT
Name: 9417650 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-SS-07 BTL#11

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

Operator ID: PAUL
Quant Time : 941227 14:28
Injected at: 941216 23:47

QUANT REPORT

Operator ID: PAUL Quant Rev: 7 Quant Time: 941229 14:51
Output File: ^B7928::QT Injected at: 941228 13:28
Data File: >B7928::G1 Dilution Factor: 1.00000
Name: 9417650 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-SS-07 BTL# 4

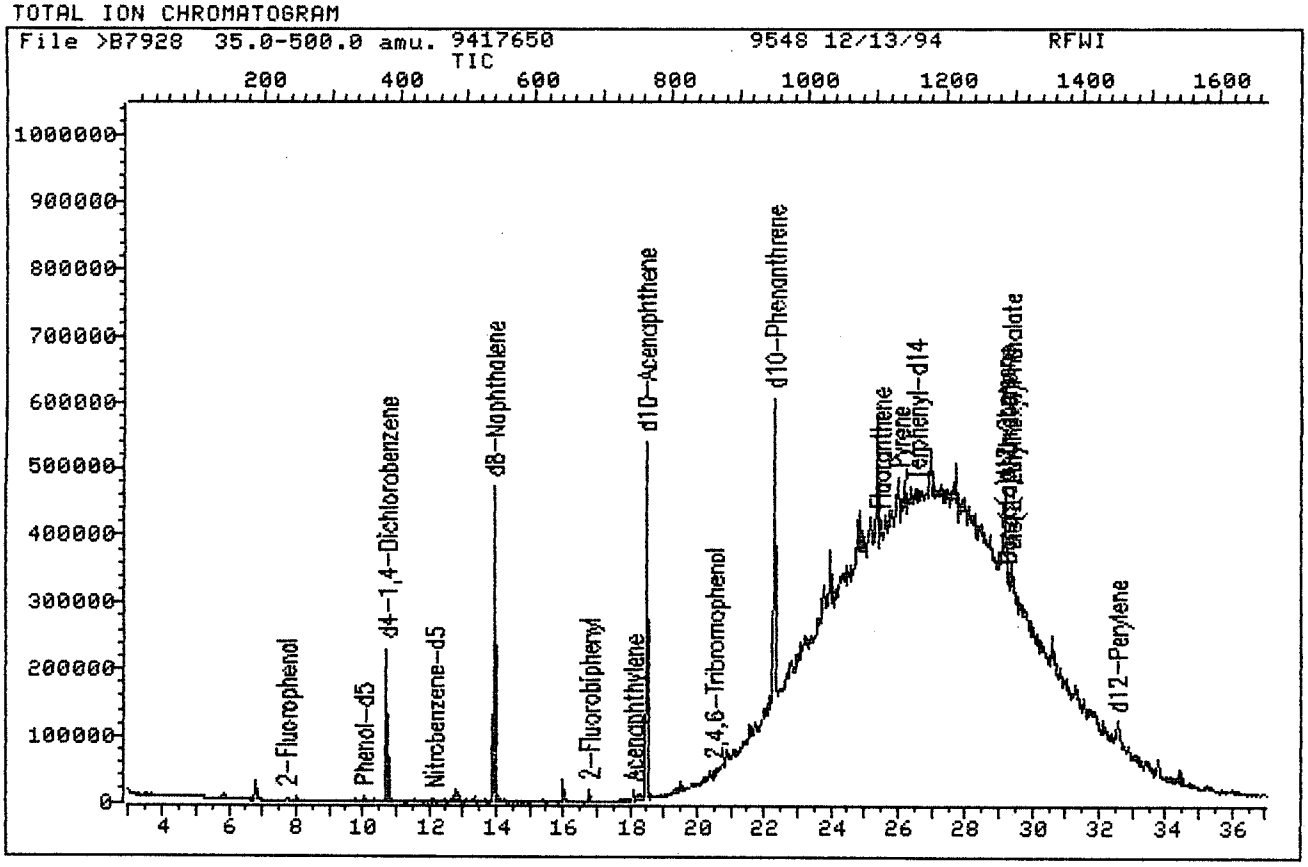
ID File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.72	381	86039	40.00	ug/l	98
4)	2-Fluorophenol	7.71	233	4792	2.00	ug/l	100
6)	Phenol-d5	10.03	347	8647	2.58	ug/l	77
19)	*d8-Naphthalene	13.91	538	421606	40.00	ug/l	99
20)	Nitrobenzene-d5	12.14	451	4027	1.07	ug/l	93
34)	*d10-Acenaphthene	18.45	761	273708	40.00	ug/l	92
39)	2-Fluorobiphenyl	16.76	678	11094	2.09	ug/l	95
42)	Acenaphthylene	18.06	742	15094	1.93	ug/l	87
54)	2,4,6-Tribromophenol	20.51	862	1938	1.84	ug/l	97
55)	*d10-Phenanthrene	22.31	950	472994	40.00	ug/l	100
66)	Fluoranthene	25.45	1103	25031	3.06	ug/l	68
67)	*d12-Chrysene	29.16	1283	139685	40.00	ug/l	100
69)	Pyrene	26.03	1131	48424	10.29	ug/l	74
70)	Terphenyl-d14	26.52	1155	11513	3.57	ug/l	83
73)	Benzo(a)Anthracene	29.22	1286	8852	2.68	ug/l	85
74)	Bis(2-Ethylhexyl)Phthalate	29.36	1293	22390	5.96	ug/l	94
76)	*d12-Perylene	32.54	1448	37925	40.00	ug/l	100

* Compound is ISTD

370

TOTAL ION CHROMATOGRAM



Data File: >B7928::G1 Quant Output File: ^B7928::QT
Name: 9417650 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-SS-07 BTL# 4

Id File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

Operator ID: PAUL
Quant Time : 941229 14:51
Injected at: 941228 13:28

371

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417651	DILUTION FACTOR	2/20
DATA FILE	>F9263/>B7929	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/17/94
FIELD ID	BB-SS-08	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	860
95578	2-Chlorophenol	U	860
95487	2-Methylphenol	U	860
108394	3&4-Methylphenol	U	860
88755	2-Nitrophenol	U	860
105679	2,4-Dimethylphenol	U	860
120832	2,4-Dichlorophenol	U	860
111444	bis(-2-Chloroethyl)Ether	U	860
541731	1,3-Dichlorobenzene	U	860
106467	1,4-Dichlorobenzene	U	860
100516	Benzyl Alcohol	U	860
95501	1,2-Dichlorobenzene	U	860
108601	bis(2-Chloroisopropyl)ether	U	860
621647	N-Nitroso-Di-n-propylamine	U	860
67721	Hexachloroethane	U	860
98953	Nitrobenzene	U	860
78591	Isophorone	2200	860
65850	Benzoic Acid	U J	4300
111911	bis(-2-Chloroethoxy)Methane	U	860
120821	1,2,4-Trichlorobenzene	U	860
91203	Naphthalene	610 J	860
106478	4-Chloroaniline	U	860
87683	Hexachlorobutadiene	U	860
91576	2-Methylnaphthalene	U	860
77474	Hexachlorocyclopentadiene	U	860
91587	2-Chloronaphthalene	U	860
88744	2-Nitroaniline	U	4300
131113	Dimethyl Phthalate	U	860
208968	Acenaphthylene	4000	860
99092	3-Nitroaniline	U	4300
83329	Acenaphthene	U	860
132649	Dibenzofuran	U	860
606202	2,6-Dinitrotoluene	U	860

CAS #	COMPOUND	UG/KG	MDL
59507	4-Chloro-3-methylphenol	U	860
88062	2,4,6-Trichlorophenol	U	860
95954	2,4,5-Trichlorophenol	U	4300
51285	2,4-Dinitrophenol	U	4300
100027	4-Nitrophenol	U	4300
534521	4,6-Dinitro-2-methylphenol	U	4300
87865	Pentachlorophenol	U	4300
121142	2,4-Dinitrotoluene	U	860
84662	Diethylphthalate	U	860
7005723	4-Chlorophenyl-phenylether	U	860
86737	Fluorene	370 J	860
100016	4-Nitroaniline	U	4300
86306	N-Nitrosodiphenylamine	U	860
101553	4-Bromophenyl-phenylether	U	860
118741	Hexachlorobenzene	U	860
85018	Phenanthrene	910	860
120127	Anthracene	1100	860
84742	Di-n-Butylphthalate	4000	860
206440	Fluoranthene	480 J	860
129000	Pyrene	1400	860
85687	Butylbenzylphthalate	U	860
91941	3,3'-Dichlorobenzidine	U	1700
56553	Benzo(a)Anthracene	5000 I	860
117817	Bis(2-Ethylhexyl)Phthalate	5400	860
218019	Chrysene	U	860
117840	Di-n-octyl phthalate	540 J	860
205992	Benzo(b)fluoranthene	U	860
207089	Benzo(k)Fluoranthene	U	860
50328	Benzo(a)Pyrene	3600 I	860
193395	Indeno(1,2,3-cd)Pyrene	590 J	860
53703	Dibenzo(a,h)Anthracene	U	860
191242	Benzo(g,h,i)Perylene	14000 J	860

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	24 %	23-120	OK
2-Fluorobiphenyl	38 %	30-115	OK
Terphenyl-d14	163 %	18-137	OUT
Phenol-d5	31 %	24-113	OK
2-Fluorophenol	29 %	25-121	OK
2,4,6-Tribromophenol	25 %	19-122	OK

Percent solid of 77.8 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: PAUL
Output File: ^F9263::QT
Data File: >F9263::F2
Name: 9417651
Misc: 9548 12/13/94 RFWI

Quant Rev: 7
Quant Time: 941227 14:31
Injected at: 941217 00:36
Dilution Factor: 1.00000
Instrument ID: HP5970BF
BB-SS-08 BTL#12

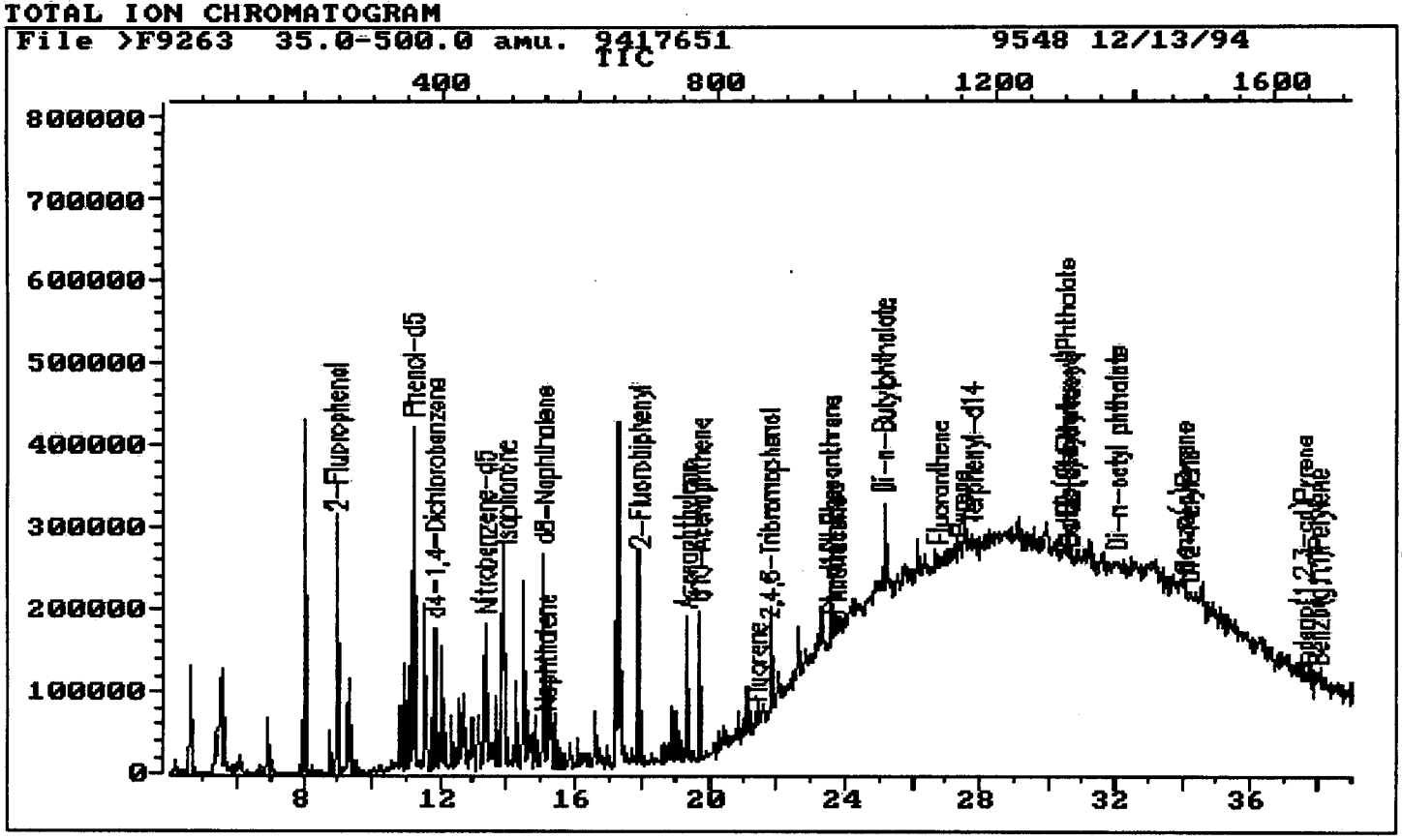
ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39
Last Qcal Time: 941216 18:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.83	385	62440	40.00	ug/l	96
4)	2-Fluorophenol	8.90	241	199688	102.16	ug/l	100
6)	Phenol-d5	11.17	353	206742	62.48	ug/l	79
19)	*d8-Naphthalene	15.06	544	204839	40.00	ug/l	80
20)	Nitrobenzene-d5	13.29	457	93251	23.47	ug/l	75
22)	Isophorone	13.92	488	168601	25.86	ug/l	92
29)	Naphthalene	15.11	546	32752	7.15	ug/l	81
34)	*d10-Acenaphthene	19.69	771	100522	40.00	ug/l	97
39)	2-Fluorobiphenyl	17.90	683	204371	48.75	ug/l	95
42)	Acenaphthylene	19.28	751	172620	46.85	ug/l	90
52)	Fluorene	21.36	853	11435	4.33	ug/l	87
54)	2,4,6-Tribromophenol	21.77	873	60205	49.57	ug/l	96
55)	*d10-Phenanthrene	23.56	960	63803	40.00	ug/l	100
62)	Phenanthrene	23.62	963	21270	15.76	ug/l	75
63)	Anthracene	23.72	968	25626	18.38	ug/l	81
65)	Di-n-Butylphthalate	25.14	1037	99319	47.03	ug/l	95
66)	Fluoranthene	26.76	1116	10623	5.64	ug/l	81
67)	*d12-Chrysene	30.55	1300	5309	40.00	ug/l	100
69)	Pyrene	27.38	1146	17215	108.02	ug/l	87
70)	Terphenyl-d14	27.75	1164	21863	158.33	ug/l	83
73)	Benzo(a)Anthracene	30.61	1303	7367	68.96	ug/l	81
74)	Bis(2-Ethylhexyl)Phthalate	30.53	1299	16630	202.73	ug/l	92
76)	*d12-Perylene	34.14	1474	6661	40.00	ug/l	100
77)	Di-n-octyl phthalate	32.04	1372	1105	6.31	ug/l	90
80)	Benzo(a)Pyrene	34.00	1467	7299	48.16	ug/l	86
81)	Indeno(1,2,3-cd)Pyrene	37.57	1640	1042	6.89	ug/l	82
83)	Benzo(g,h,i)Perylene	38.02	1662	34564	252.57	ug/l	95

* Compound is ISTD

372

TOTAL ION CHROMATOGRAM



Data File: >F9263::F2 Quant Output File: ^F9263::QT
Name: 9417651 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-SS-08 BTL#12

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

Operator ID: PAUL
Quant Time : 941227 14:31
Injected at: 941217 00:36

QUANT REPORT

Operator ID: PAUL Quant Rev: 7 Quant Time: 941229 14:53
Output File: ^B7929::QT Injected at: 941228 14:16
Data File: >B7929::G1 Dilution Factor: 1.00000
Name: 9417651 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-SS-08 BTL# 5

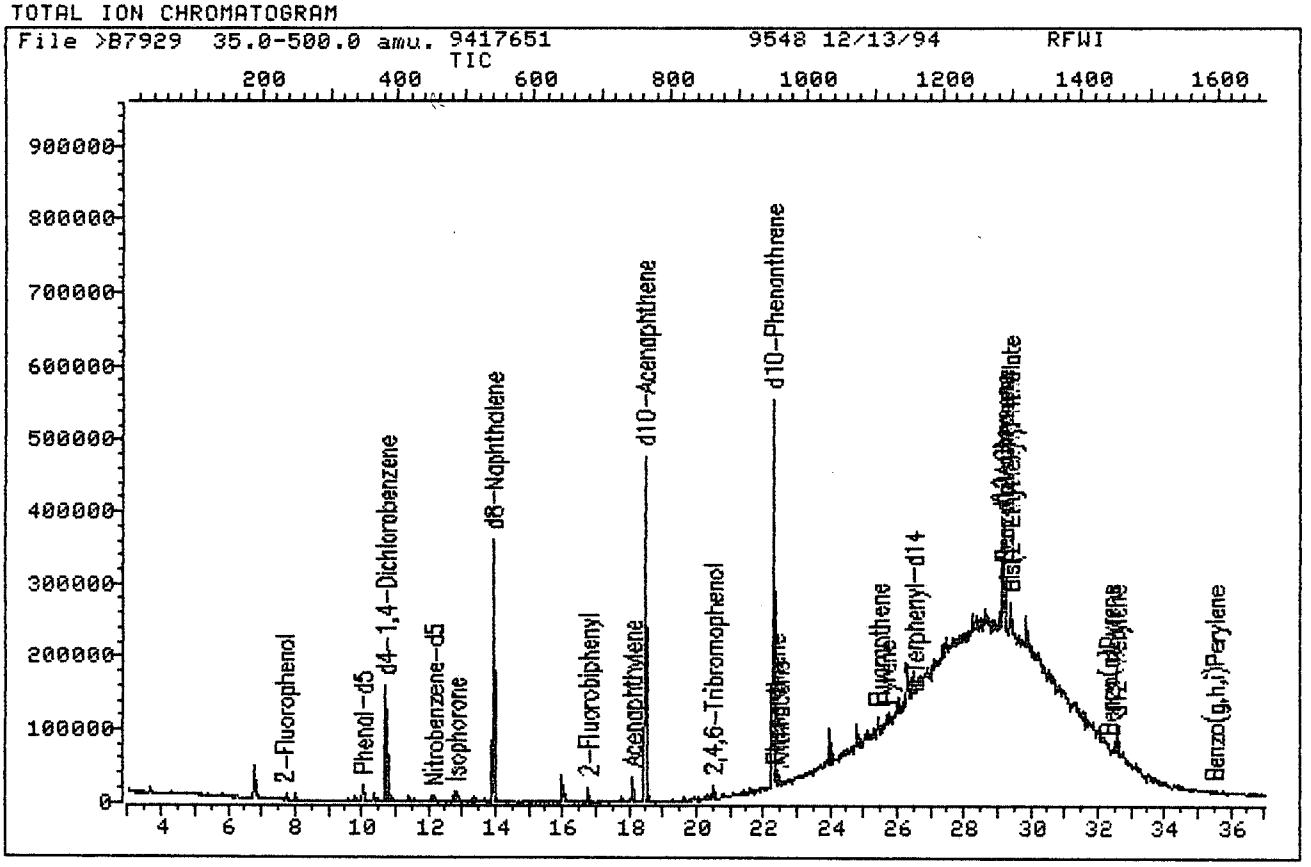
ID File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.72	381	65268	40.00	ug/l	93
4)	2-Fluorophenol	7.69	232	8086	4.46	ug/l	100
6)	Phenol-d5	10.02	347	13115	5.16	ug/l	81
19)	*d8-Naphthalene	13.91	538	326010	40.00	ug/l	99
20)	Nitrobenzene-d5	12.14	451	5820	2.00	ug/l	85
22)	Isophorone	12.81	484	14776	2.02	ug/l	84
34)	*d10-Acenaphthene	18.44	761	227914	40.00	ug/l	98
39)	2-Fluorobiphenyl	16.76	678	15231	3.45	ug/l	94
42)	Acenaphthylene	18.06	742	39901	6.14	ug/l	87
54)	2,4,6-Tribromophenol	20.50	862	4050	4.61	ug/l	88
55)	*d10-Phenanthrene	22.29	950	494128	40.00	ug/l	100
62)	Phenanthrene	22.35	953	9457	1.28	ug/l	74
63)	Anthracene	22.48	959	11144	1.49	ug/l	81
66)	Fluoranthene	25.44	1104	13941	1.63	ug/l	67
67)	*d12-Chrysene	29.16	1285	128272	40.00	ug/l	100
69)	Pyrene	25.69	1116	6661	1.54	ug/l	80
70)	Terphenyl-d14	26.49	1155	20932	7.07	ug/l	91
73)	Benzo(a)Anthracene	29.18	1286	14916	4.91	ug/l	83
74)	Bis(2-Ethylhexyl)Phthalate	29.37	1295	22554	6.53	ug/l	91
76)	*d12-Perylene	32.55	1450	34441	40.00	ug/l	100
80)	Benzo(a)Pyrene	32.33	1439	2457	3.69	ug/l	73
83)	Benzo(g,h,i)Perylene	35.49	1594	1840	8.92	ug/l	86

* Compound is ISTD

374

TOTAL ION CHROMATOGRAM



Data File: >B7929::G1 Quant Output File: ^B7929::QT
Name: 9417651 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-SS-08 BTL# 5

Id File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

Operator ID: PAUL
Quant Time : 941229 14:53
Injected at: 941228 14:16

375

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417652	DILUTION FACTOR	10
DATA FILE	>F9264	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/17/94
FIELD ID	BB-DS-01	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	3500
95578	2-Chlorophenol	U	3500
95487	2-Methylphenol	U	3500
108394	3&4-Methylphenol	1200 J	3500
88755	2-Nitrophenol	U	3500
105679	2,4-Dimethylphenol	U	3500
120832	2,4-Dichlorophenol	U	3500
111444	bis(-2-Chloroethyl)Ether	U	3500
541731	1,3-Dichlorobenzene	U	3500
106467	1,4-Dichlorobenzene	U	3500
100516	Benzyl Alcohol	U	3500
95501	1,2-Dichlorobenzene	U	3500
108601	bis(2-Chloroisopropyl)ether	U	3500
621647	N-Nitroso-Di-n-propylamine	U	3500
67721	Hexachloroethane	U	3500
98953	Nitrobenzene	U	3500
78591	Isophorone	U	3500
65850	Benzoic Acid	U J	17000
111911	bis(-2-Chloroethoxy)Methane	U	3500
120821	1,2,4-Trichlorobenzene	U	3500
91203	Naphthalene	440 J	3500
106478	4-Chloroaniline	U	3500
87683	Hexachlorobutadiene	U	3500
91576	2-Methylnaphthalene	400 J	3500
77474	Hexachlorocyclopentadiene	U	3500
91587	2-Chloronaphthalene	U	3500
88744	2-Nitroaniline	U	17000
131113	Dimethyl Phthalate	U	3500
208968	Acenaphthylene	U	3500
99092	3-Nitroaniline	U	17000
83329	Acenaphthene	U	3500
132649	Dibenzofuran	U	3500
606202	2,6-Dinitrotoluene	U	3500

CAS #	COMPOUND	UG/KG	MDL
59507	4-Chloro-3-methylphenol	U	3500
88062	2,4,6-Trichlorophenol	U	3500
95954	2,4,5-Trichlorophenol	U	17000
51285	2,4-Dinitrophenol	U	17000
100027	4-Nitrophenol	U	17000
534521	4,6-Dinitro-2-methylphenol	U	17000
87865	Pentachlorophenol	U	17000
121142	2,4-Dinitrotoluene	U	3500
84662	Diethylphthalate	U	3500
7005723	4-Chlorophenyl-phenylether	U	3500
86737	Fluorene	U	3500
100016	4-Nitroaniline	U	17000
86306	N-Nitrosodiphenylamine	U	3500
101553	4-Bromophenyl-phenylether	U	3500
118741	Hexachlorobenzene	U	3500
85018	Phenanthrene	U	3500
120127	Anthracene	U	3500
84742	Di-n-Butylphthalate	23000	3500
206440	Fluoranthene	U	3500
129000	Pyrene	U	3500
85687	Butylbenzylphthalate	U	3500
91941	3,3'-Dichlorobenzidine	U	6900
56553	Benzo(a)Anthracene	U	3500
117817	Bis(2-Ethylhexyl)Phthalate	41000	3500
218019	Chrysene	U	3500
117840	Di-n-octyl phthalate	6600	3500
205992	Benzo(b)fluoranthene	U	3500
207089	Benzo(k)Fluoranthene	U	3500
50328	Benzo(a)Pyrene	680 J	3500
193395	Indeno(1,2,3-cd)Pyrene	U J	3500
53703	Dibenzo(a,h)Anthracene	U J	3500
191242	Benzo(g,h,i)Perylene	U J	3500

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	43 %	23-120	OK
2-Fluorobiphenyl	72 %	30-115	OK
Terphenyl-d14	174 %	18-137	OUT
Phenol-d5	72 %	24-113	OK
2-Fluorophenol	104 %	25-121	OK
2,4,6-Tribromophenol	76 %	19-122	OK

Percent solid of 96.2 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

54

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

Operator ID: PAUL Quant Rev: 7 Quant Time: 941227 14:33
Output File: ^F9264::QT Injected at: 941217 01:26
Data File: >F9264::F2 Dilution Factor: 1.00000
Name: 9417652 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-DS-01 BTL#13

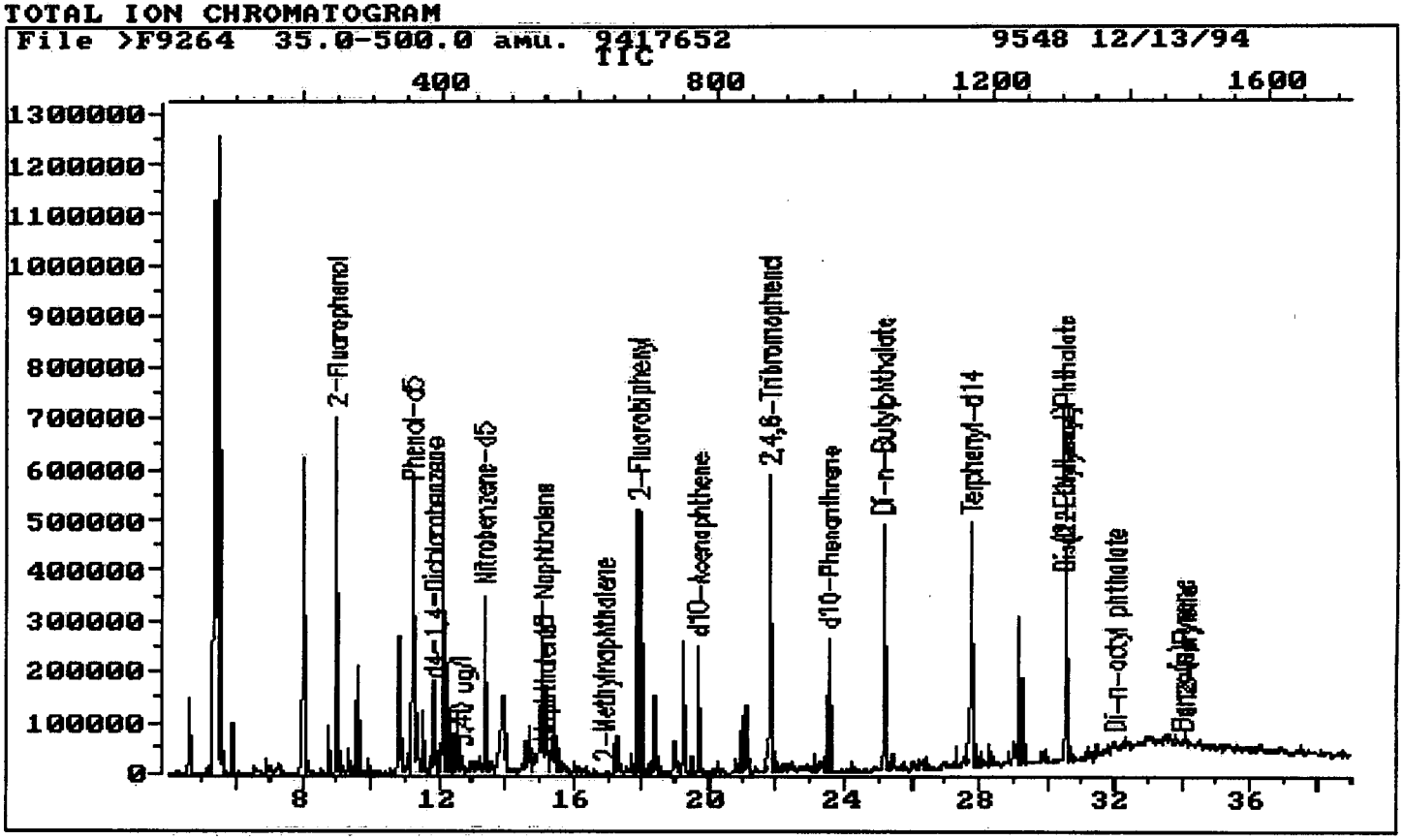
ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.83	385	58483	40.00	ug/l	98
4)	2-Fluorophenol	8.94	243	380746	207.96	ug/l	100
6)	Phenol-d5	11.20	354	446614	144.11	ug/l	81
16)	3&4-Methylphenol	12.66	426	6088	3.40	ug/l	83
19)	*d8-Naphthalene	15.06	544	214834	40.00	ug/l	82
20)	Nitrobenzene-d5	13.31	458	178725M	42.89	ug/l	
29)	Naphthalene	15.12	547	6129	1.28	ug/l	76
33)	2-Methylnaphthalene	16.89	634	1806	1.17	ug/l	92
34)	*d10-Acenaphthene	19.68	771	145484	40.00	ug/l	97
39)	2-Fluorobiphenyl	17.91	684	436219	71.89	ug/l	94
54)	2,4,6-Tribromophenol	21.80	875	266762	151.75	ug/l	99
55)	*d10-Phenanthrene	23.55	961	260703	40.00	ug/l	100
65)	Di-n-Butylphthalate	25.14	1039	568955	65.93	ug/l	95
67)	*d12-Chrysene	30.52	1303	121731	40.00	ug/l	100
70)	Terphenyl-d14	27.74	1167	550808	173.96	ug/l	85
74)	Bis(2-Ethylhexyl)Phthalate	30.50	1302	222649	118.37	ug/l	83
76)	*d12-Perylene	34.10	1478	44748	40.00	ug/l	100
77)	Di-n-octyl phthalate	31.99	1375	22307	18.97	ug/l	89
80)	Benzo(a)Pyrene	33.96	1471	2009	1.97	ug/l	80

* Compound is ISTD

376

TOTAL ION CHROMATOGRAM



Data File: >F9264::F2 Quant Output File: ^F9264::QT
Name: 9417652 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-DS-01 BTL#13

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

Operator ID: PAUL
Quant Time : 941227 14:33
Injected at: 941217 01:26

377

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Solid
SAMPLE NUMBER	9417653	DILUTION FACTOR	10/500
DATA FILE	>F9265/>B7930	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/17/94
FIELD ID	BB-DS-02	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	3400
95578	2-Chlorophenol	U	3400
95487	2-Methylphenol	U	3400
108394	3&4-Methylphenol	U	3400
88755	2-Nitrophenol	U	3400
105679	2,4-Dimethylphenol	U	3400
120832	2,4-Dichlorophenol	U	3400
111444	bis(-2-Chloroethyl)Ether	U	3400
541731	1,3-Dichlorobenzene	U	3400
106467	1,4-Dichlorobenzene	U	3400
100516	Benzyl Alcohol	U	3400
95501	1,2-Dichlorobenzene	U	3400
108601	bis(2-Chloroisopropyl)ether	U	3400
621647	N-Nitroso-Di-n-propylamine	U	3400
67721	Hexachloroethane	U	3400
98953	Nitrobenzene	U	3400
78591	Isophorone	U	3400
65850	Benzoic Acid	U J	17000
111911	bis(-2-Chloroethoxy)Methane	U	3400
120821	1,2,4-Trichlorobenzene	U	3400
91203	Naphthalene	570 J	3400
106478	4-Chloroaniline	U	3400
87683	Hexachlorobutadiene	U	3400
91576	2-Methylnaphthalene	U	3400
77474	Hexachlorocyclopentadiene	U	3400
91587	2-Chloronaphthalene	U	3400
88744	2-Nitroaniline	U	17000
131113	Dimethyl Phthalate	U	3400
208968	Acenaphthylene	U	3400
99092	3-Nitroaniline	U	17000
83329	Acenaphthene	U	3400
132649	Dibenzofuran	U	3400
606202	2,6-Dinitrotoluene	U	3400

CAS #	COMPOUND	UG/KG	MDL
59507	4-Chloro-3-methylphenol	U	3400
88062	2,4,6-Trichlorophenol	U	3400
95954	2,4,5-Trichlorophenol	U	17000
51285	2,4-Dinitrophenol	U	17000
100027	4-Nitrophenol	U	17000
534521	4,6-Dinitro-2-methylphenol	U	17000
87865	Pentachlorophenol	U	17000
121142	2,4-Dinitrotoluene	U	3400
84662	Diethylphthalate	U	3400
7005723	4-Chlorophenyl-phenylether	U	3400
86737	Fluorene	U	3400
100016	4-Nitroaniline	U	17000
86306	N-Nitrosodiphenylamine	U	3400
101553	4-Bromophenyl-phenylether	U	3400
118741	Hexachlorobenzene	U	3400
85018	Phenanthrene	U	3400
120127	Anthracene	U	3400
84742	Di-n-Butylphthalate	29000	3400
206440	Fluoranthene	U	3400
129000	Pyrene	U	3400
85687	Butylbenzylphthalate	50000	3400
91941	3,3'-Dichlorobenzidine	U	6900
56553	Benzo(a)Anthracene	U	3400
117817	Bis(2-Ethylhexyl)Phthalate	*650000	3400
218019	Chrysene	U	3400
117840	Di-n-octyl phthalate	U	3400
205992	Benzo(b)fluoranthene	U	3400
207089	Benzo(k)Fluoranthene	U	3400
50328	Benzo(a)Pyrene	U	3400
193395	Indeno(1,2,3-cd)Pyrene	U J	3400
53703	Dibenzo(a,h)Anthracene	U J	3400
191242	Benzo(g,h,i)Perylene	U J	3400

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	75 %	23-120	OK
2-Fluorobiphenyl	112 %	30-115	OK
Terphenyl-d14	~~255 %~~	18-137	OUT
Phenol-d5	103 %	24-113	OK
2-Fluorophenol	97 %	25-121	OK
2,4,6-Tribromophenol	59 %	19-122	OK

* Data Transferred from Diluted Analysis

Percent solid of 97.0 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in as

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: PAUL
Quant Rev: 7
Quant Time: 941227 14:35
Output File: ^F9265::QT
Injected at: 941217 02:16
Data File: >F9265::F2
Dilution Factor: 1.00000
Name: 9417653
Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI
BB-DS-02 BTL#14

10x

ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39
Last Qcal Time: 941216 18:00

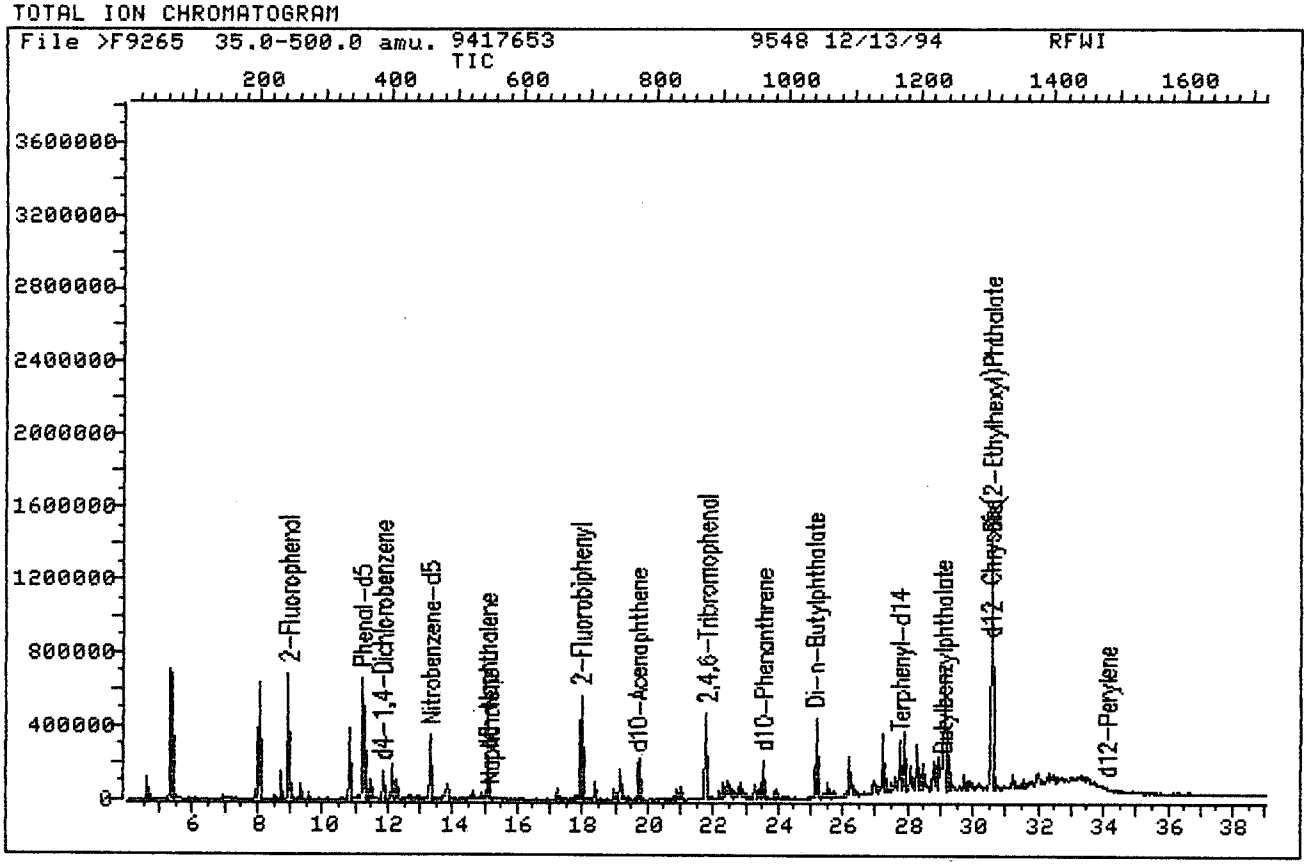
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.82	385	56811	40.00	ug/l	98
4)	2-Fluorophenol	8.94	243	394614	221.88	ug/l	100
6)	Phenol-d5	11.19	354	423490	140.67	ug/l	79
19)	*d8-Naphthalene	15.06	544	212175	40.00	ug/l	82
20)	Nitrobenzene-d5	13.31	458	186702M	45.36	ug/l	78
29)	Naphthalene	15.12	547	7812	1.65	ug/l	77
34)	*d10-Acenaphthene	19.68	771	136706	40.00	ug/l	96
39)	2-Fluorobiphenyl	17.93	685	413839	72.58	ug/l	94
54)	2,4,6-Tribromophenol	21.79	875	203535	123.21	ug/l	98
55)	*d10-Phenanthrene	23.54	961	201457	40.00	ug/l	100
65)	Di-n-Butylphthalate	25.13	1039	555822	83.35	ug/l	93
67)	*d12-Chrysene	30.52	1303	12655	40.00	ug/l	100
70)	Terphenyl-d14	27.74	1167	292059	887.30	ug/l	82
71)	Butylbenzylphthalate	29.07	1232	29580	146.13	ug/l	89
74)	Bis(2-Ethylhexyl)Phthalate	30.56	1305	1049292	5366.16	ug/l	84
76)	*d12-Perylene	34.10	1478	17345	40.00	ug/l	100

* Compound is ISTD

~200

378

TOTAL ION CHROMATOGRAM



Data File: >F9265::F2 Quant Output File: ^F9265::QT
Name: 9417653 Instrument ID: HP5970BF
Misc: 9548 12/13/94 RFWI BB-DS-02 BTL#14

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941216 18:00

Operator ID: PAUL
Quant Time : 941227 14:35
Injected at: 941217 02:16

379

QUANT REPORT

Operator ID: PAUL
Quant Rev: 7
Quant Time: 941229 14:56
Output File: ^B7930::QT
Injected at: 941228 15:04
Data File: >B7930::G1
Dilution Factor: 1.00000
Name: 9417653
Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI
BB-DS-02
BTL# 6

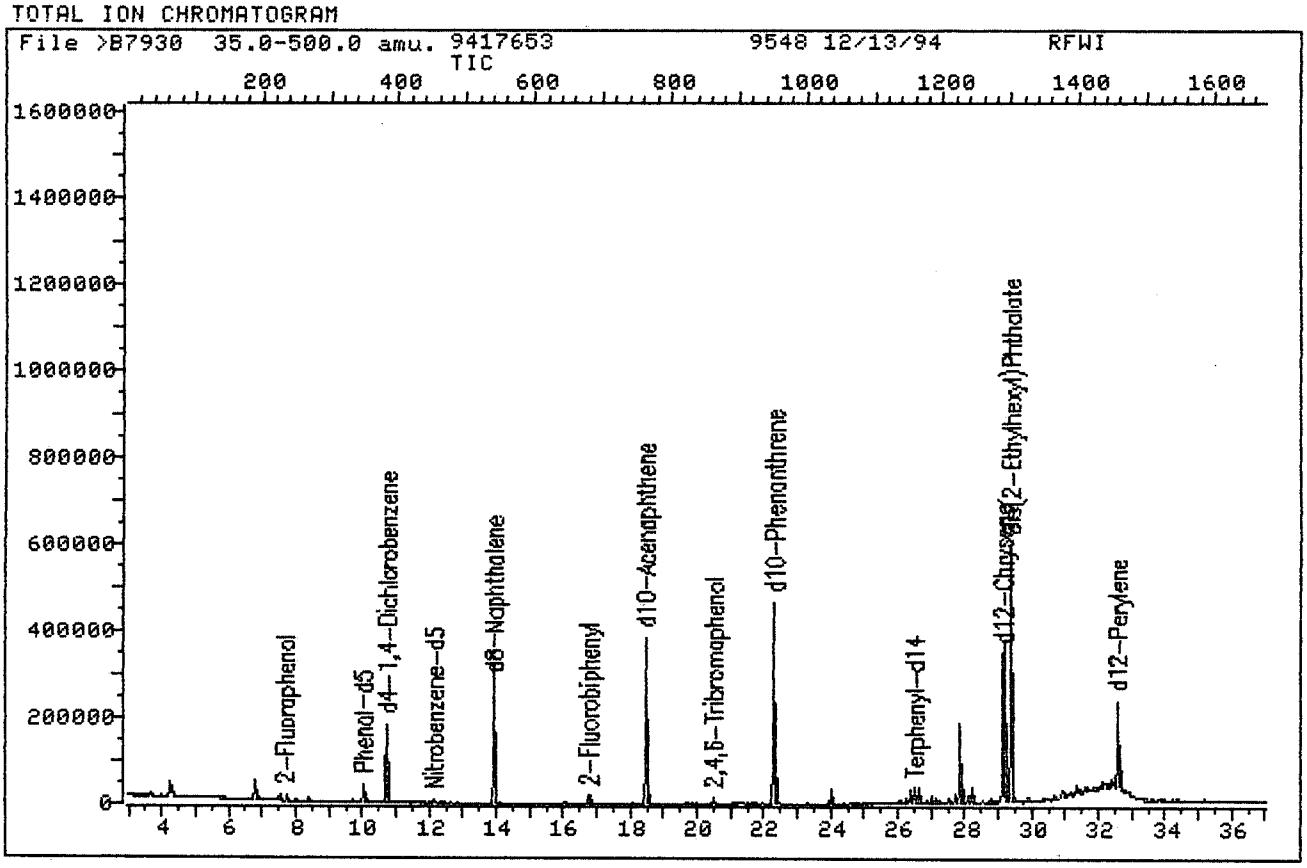
ID File: IDB59::SC
10x 50x
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54
Last Qcal Time: 941228 09:29

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.73	382	73277	40.00	ug/l	94
4)	2-Fluorophenol	7.68	232	12180	5.98	ug/l	100
6)	Phenol-d5	10.02	347	19554	6.85	ug/l	75
19)	*d8-Naphthalene	13.90	538	345045	40.00	ug/l	98
20)	Nitrobenzene-d5	12.13	451	7632	2.47	ug/l	96
34)	*d10-Acenaphthene	18.44	761	231151	40.00	ug/l	97
39)	2-Fluorobiphenyl	16.75	678	19303	4.31	ug/l	95
54)	2,4,6-Tribromophenol	20.49	862	3957	4.44	ug/l	91
55)	*d10-Phenanthrene	22.30	951	446929	40.00	ug/l	100
67)	*d12-Chrysene	29.13	1287	316672	40.00	ug/l	100
70)	Terphenyl-d14	26.49	1157	32409	4.43	ug/l	89
74)	Bis(2-Ethylhexyl)Phthalate	29.36	1298	336131	39.45	ug/l	98
76)	*d12-Perylene	32.56	1455	211712	40.00	ug/l	100

* Compound is ISTD

380

TOTAL ION CHROMATOGRAM



Data File: >B7930::G1 Quant Output File: ^B7930::QT
Name: 9417653 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-02 BTL# 6

Id File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

Operator ID: PAUL
Quant Time : 941229 14:56
Injected at: 941228 15:04

381

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417654	DILUTION FACTOR	10/200
DATA FILE	>B7868/>B7931	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DS-03	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	5000
95578	2-Chlorophenol	U	5000
95487	2-Methylphenol	U	5000
108394	3&4-Methylphenol	U	5000
88755	2-Nitrophenol	U	5000
105679	2,4-Dimethylphenol	U	5000
120832	2,4-Dichlorophenol	U	5000
111444	bis(-2-Chloroethyl)Ether	U J	5000
541731	1,3-Dichlorobenzene	U	5000
106467	1,4-Dichlorobenzene	U	5000
100516	Benzyl Alcohol	U	5000
95501	1,2-Dichlorobenzene	U	5000
108601	bis(2-Chloroisopropyl)ether	U	5000
621647	N-Nitroso-Di-n-propylamine	U J	5000
67721	Hexachloroethane	U	5000
98953	Nitrobenzene	U	5000
78591	Isophorone	*1900000 E	5000
65850	Benzoic Acid	U R	25000
111911	bis(-2-Chloroethoxy)Methane	U	5000
120821	1,2,4-Trichlorobenzene	U	5000
91203	Naphthalene	*1100000 E	5000
106478	4-Chloroaniline	U	5000
87683	Hexachlorobutadiene	U	5000
91576	2-Methylnaphthalene	*730000 E	5000
77474	Hexachlorocyclopentadiene	U J	5000
91587	2-Chloronaphthalene	U	5000
88744	2-Nitroaniline	U	25000
131113	Dimethyl Phthalate	U	5000
208968	Acenaphthylene	U	5000
99092	3-Nitroaniline	U	25000
83329	Acenaphthene	U	5000
132649	Dibenzofuran	U	5000
606202	2,6-Dinitrotoluene	U	5000

CAS #	COMPOUND	UG/KG	MDL
59507	4-Chloro-3-methylphenol	U	5000
88062	2,4,6-Trichlorophenol	U	5000
95954	2,4,5-Trichlorophenol	U	25000
51285	2,4-Dinitrophenol	U	25000
100027	4-Nitrophenol	U	25000
534521	4,6-Dinitro-2-methylphenol	U	25000
87865	Pentachlorophenol	U	25000
121142	2,4-Dinitrotoluene	U	5000
84662	Diethylphthalate	U	5000
7005723	4-Chlorophenyl-phenylether	U	5000
86737	Fluorene	U	5000
100016	4-Nitroaniline	U	25000
86306	N-Nitrosodiphenylamine	U	5000
101553	4-Bromophenyl-phenylether	U	5000
118741	Hexachlorobenzene	U	5000
85018	Phenanthrene	U	5000
120127	Anthracene	U	5000
84742	Di-n-Butylphthalate	U	5000
206440	Fluoranthene	U	5000
129000	Pyrene	U J	5000
85687	Butylbenzylphthalate	U	5000
91941	3,3'-Dichlorobenzidine	U	10000
56553	Benzo(a)Anthracene	U	5000
117817	Bis(2-Ethylhexyl)Phthalate	*2400000 E J	5000
218019	Chrysene	U	5000
117840	Di-n-octyl phthalate	27000	5000
205992	Benzo(b)fluoranthene	U	5000
207089	Benzo(k)Fluoranthene	U	5000
50328	Benzo(a)Pyrene	U	5000
193395	Indeno(1,2,3-cd)Pyrene	U	5000
53703	Dibenzo(a,h)Anthracene	U	5000
191242	Benzo(g,h,i)Perylene	U	5000

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	44 %	23-120	OK
2-Fluorobiphenyl	41 %	30-115	OK
Terphenyl-d14	90 %	18-137	OK
Phenol-d5	33 %	24-113	OK
2-Fluorophenol	19 %	25-121	OUT
2,4,6-Tribromophenol	20 %	19-122	OK

*Data Transferred from diluted Analysis

Percent solid of 66.1 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

56

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: MARIE Quant Rev: 7 Quant Time: 941227 15:18
Output File: ^B7868::QT Injected at: 941224 00:06
Data File: >B7868::G2 Dilution Factor: 1.00000
Name: 9417654 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-03 BTL#18

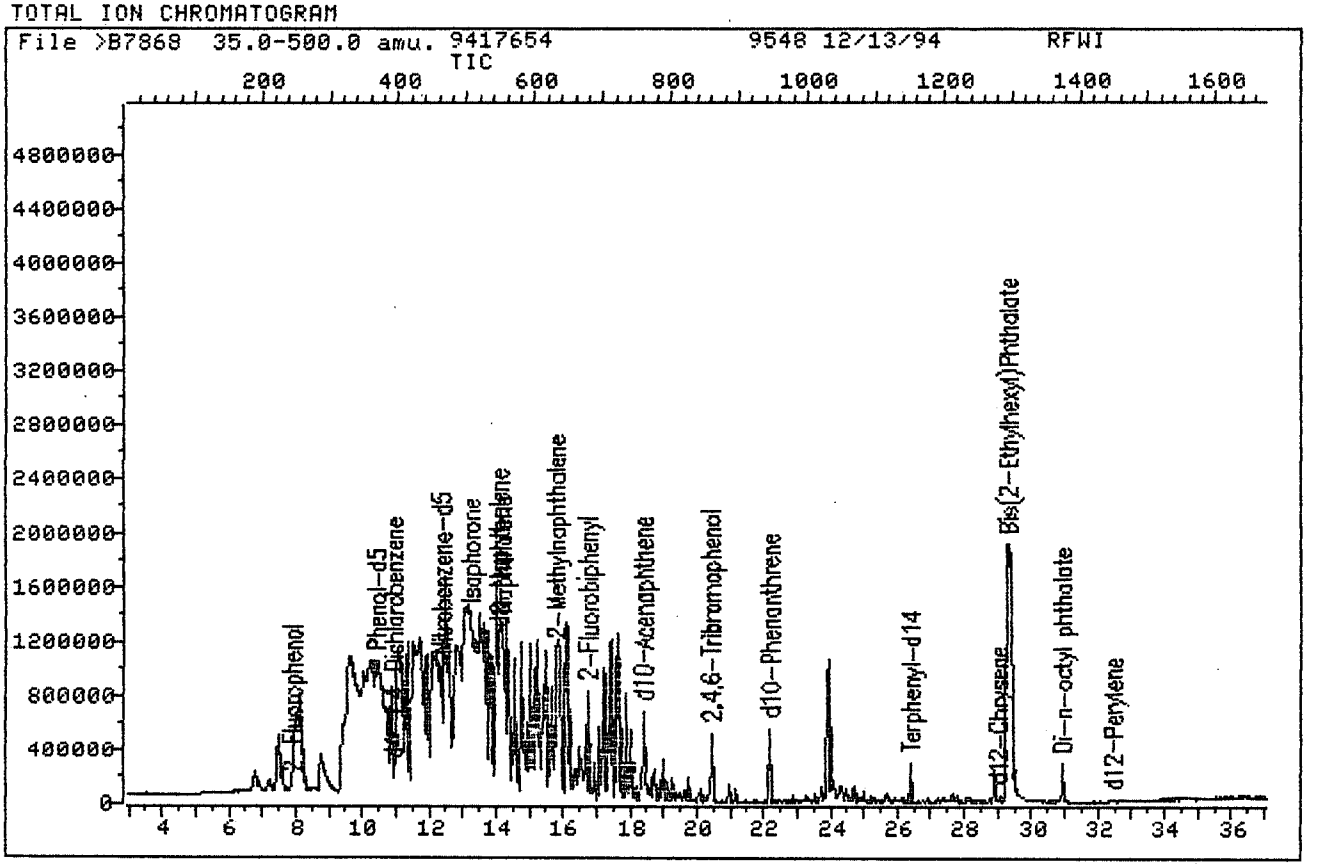
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.94	392	48164M	40.00	ug/l	
4)	2-Fluorophenol	7.88	242	74268	44.62	ug/l	100
6)	Phenol-d5	10.41	366	5209	2.36	ug/l	95
19)	*d8-Naphthalene	14.08	546	85157	40.00	ug/l	88
20)	Nitrobenzene-d5	12.36	462	135801	114.11	ug/l	88
22)	Isophorone	13.22	504	7664696M	2514.65	ug/l	88
29)	Naphthalene	14.18	551	3480539M	2129.32	ug/l	96
33)	2-Methylnaphthalene	15.79	630	2666142M	1792.90	ug/l	
34)	*d10-Acenaphthene	18.38	757	380942	40.00	ug/l	92
39)	2-Fluorobiphenyl	16.73	676	560542	37.57	ug/l	92
54)	2,4,6-Tribromophenol	20.42	857	194301	132.27	ug/l	97
55)	*d10-Phenanthrene	22.19	944	524169	40.00	ug/l	100
67)	*d12-Chrysene	29.01	1279	52562	40.00	ug/l	100
70)	Terphenyl-d14	26.38	1150	252279	106.81	ug/l	97
74)	Bis(2-Ethylhexyl)Phthalate	29.29	1293	3405863M	2031.52	ug/l	82
76)	*d12-Perylene	32.43	1447	16823	40.00	ug/l	100
77)	Di-n-octyl phthalate	30.92	1373	58665	53.10	ug/l	88

* Compound is ISTD

382

TOTAL ION CHROMATOGRAM



Data File: >B7868::G2 Quant Output File: ^B7868::QT
Name: 9417654 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-03 BTL#18

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:18
Injected at: 941224 00:06

QUANT REPORT

Operator ID: PAUL Quant Rev: 7 Quant Time: 941229 14:57
Output File: ^B7931::QT Injected at: 941228 15:51
Data File: >B7931::G1 Dilution Factor: 1.00000
Name: 9417654 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-03 BTL# 7

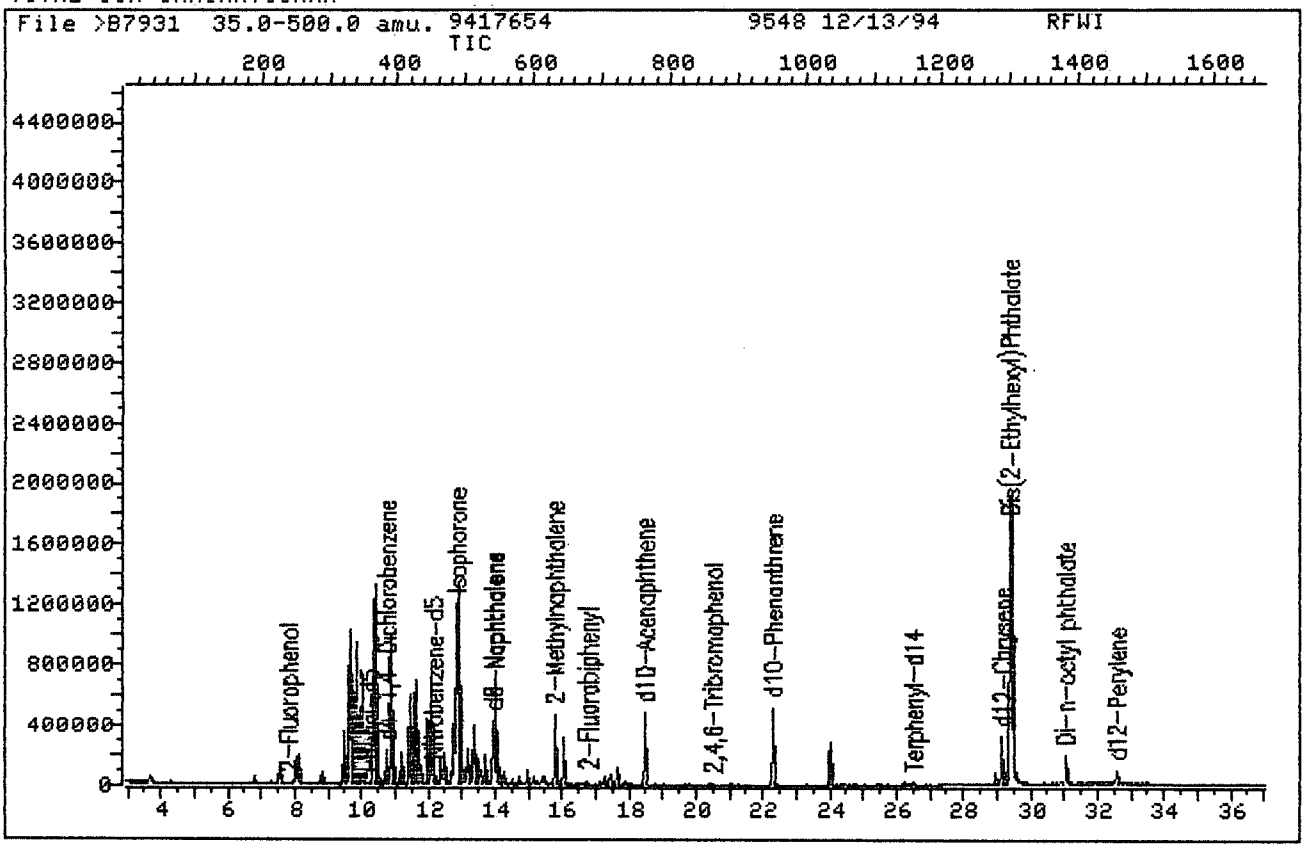
ID File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.73	382	77930	40.00	ug/l	97
4)	2-Fluorophenol	7.78	237	6401	2.96	ug/l	100
6)	Phenol-d5	10.22	357	11940	3.93	ug/l	80
19)	*d8-Naphthalene	13.93	539	366592	40.00	ug/l	96
20)	Nitrobenzene-d5	12.14	451	7691	2.35	ug/l	79
22)	Isophorone	12.85	486	1379675M	167.58	ug/l	
29)	Naphthalene	13.99	542	707556	125.88	ug/l	81
33)	2-Methylnaphthalene	15.76	629	358028	77.17	ug/l	97
34)	*d10-Acenaphthene	18.45	761	242708	40.00	ug/l	95
39)	2-Fluorobiphenyl	16.76	678	17636	3.75	ug/l	94
54)	2,4,6-Tribromophenol	20.48	861	3583M	3.83	ug/l	
55)	*d10-Phenanthrene	22.29	950	461678	40.00	ug/l	100
67)	*d12-Chrysene	29.14	1287	268300	40.00	ug/l	100
70)	Terphenyl-d14	26.48	1156	24210	3.91	ug/l	95
74)	Bis(2-Ethylhexyl)Phthalate	29.37	1298	1773157M	245.61	ug/l	84
76)	*d12-Perylene	32.54	1454	80638	40.00	ug/l	100
77)	Di-n-octyl phthalate	31.02	1379	30552	5.58	ug/l	91

* Compound is ISTD

384

TOTAL ION CHROMATOGRAM



Data File: >B7931::G1 Quant Output File: ^B7931::QT
Name: 9417654 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-03 BTL# 7

Id File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

Operator ID: PAUL
Quant Time : 941229 14:57
Injected at: 941228 15:51

385

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417655	DILUTION FACTOR	10
DATA FILE	>B7869	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DS-04	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	4300
95578	2-Chlorophenol	U	4300
95487	2-Methylphenol	U	4300
108394	3&4-Methylphenol	U	4300
88755	2-Nitrophenol	U	4300
105679	2,4-Dimethylphenol	U	4300
120832	2,4-Dichlorophenol	U	4300
111444	bis(-2-Chloroethyl)Ether	U	4300
541731	1,3-Dichlorobenzene	U	4300
106467	1,4-Dichlorobenzene	U	4300
100516	Benzyl Alcohol	U	4300
95501	1,2-Dichlorobenzene	U	4300
108601	bis(2-Chloroisopropyl)ether	U	4300
621647	N-Nitroso-Di-n-propylamine	U	4300
67721	Hexachloroethane	U J	4300
98953	Nitrobenzene	U	4300
78591	Isophorone	U	4300
65850	Benzoic Acid	5600 ~~J~~	21000
111911	bis(-2-Chloroethoxy)Methane	U	4300
120821	1,2,4-Trichlorobenzene	U	4300
91203	Naphthalene	U	4300
106478	4-Chloroaniline	U	4300
87683	Hexachlorobutadiene	U	4300
91576	2-Methylnaphthalene	U	4300
77474	Hexachlorocyclopentadiene	U J	4300
91587	2-Chloronaphthalene	U	4300
88744	2-Nitroaniline	U	21000
131113	Dimethyl Phthalate	U	4300
208968	Acenaphthylene	U	4300
99092	3-Nitroaniline	U	21000
83329	Acenaphthene	U	4300
132649	Dibenzofuran	U	4300
606202	2,6-Dinitrotoluene	U	4300

CAS #	COMPOUND	UG/KG	MDL
59507	4-Chloro-3-methylphenol	U	4300
88062	2,4,6-Trichlorophenol	U	4300
95954	2,4,5-Trichlorophenol	U	21000
51285	2,4-Dinitrophenol	U	21000
100027	4-Nitrophenol	U	21000
534521	4,6-Dinitro-2-methylphenol	U	21000
87865	Pentachlorophenol	U	21000
121142	2,4-Dinitrotoluene	U	4300
84662	Diethylphthalate	U	4300
7005723	4-Chlorophenyl-phenylether	U	4300
86737	Fluorene	U	4300
100016	4-Nitroaniline	U	21000
86306	N-Nitrosodiphenylamine	U	4300
101553	4-Bromophenyl-phenylether	U	4300
118741	Hexachlorobenzene	U	4300
85018	Phenanthrene	U	4300
120127	Anthracene	U	4300
84742	Di-n-Butylphthalate	U	4300
206440	Fluoranthene	U	4300
129000	Pyrene	U	4300
85687	Butylbenzylphthalate	3500 J	4300
91941	3,3'-Dichlorobenzidine	U	8500
56553	Benzo(a)Anthracene	U	4300
117817	Bis(2-Ethylhexyl)Phthalate	3700 J	4300
218019	Chrysene	U	4300
117840	Di-n-octyl phthalate	U	4300
205992	Benzo(b)fluoranthene	U	4300
207089	Benzo(k)Fluoranthene	U	4300
50328	Benzo(a)Pyrene	U	4300
193395	Indeno(1,2,3-cd)Pyrene	U	4300
53703	Dibenzo(a,h)Anthracene	U	4300
191242	Benzo(g,h,i)Perylene	U	4300

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	74 %	23-120	OK
2-Fluorobiphenyl	66 %	30-115	OK
Terphenyl-d14	66 %	18-137	OK
Phenol-d5	86 %	24-113	OK
2-Fluorophenol	46 %	25-121	OK
2,4,6-Tribromophenol	105 %	19-122	OK

Percent solid of 78.0 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

Operator ID: MARIE Quant Rev: 7 Quant Time: 941227 15:19
Output File: ^B7869::QT Injected at: 941224 00:53
Data File: >B7869::G2 Dilution Factor: 1.00000
Name: 9417655 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-04 BTL#19

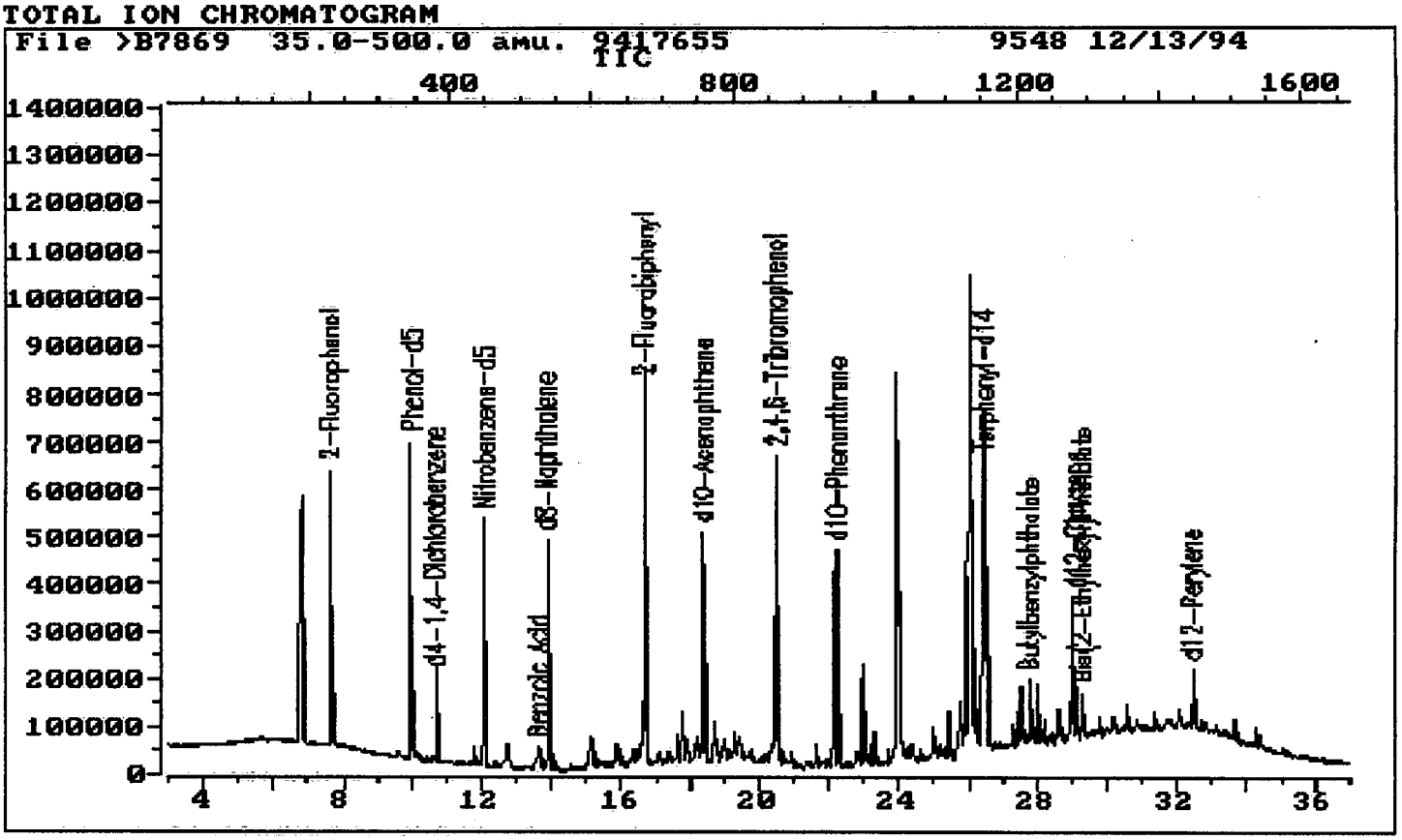
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.63	377	97257	40.00	ug/l	92
4)	2-Fluorophenol	7.60	228	310794	92.48	ug/l	100
6)	Phenol-d5	9.96	344	764453	171.74	ug/l	79
19)	*d8-Naphthalene	13.82	534	518170	40.00	ug/l	98
20)	Nitrobenzene-d5	12.05	447	536973	74.15	ug/l	94
25)	Benzoic Acid	13.60	523	16306	13.07	ug/l	93
34)	*d10-Acenaphthene	18.35	756	327113	40.00	ug/l	97
39)	2-Fluorobiphenyl	16.67	674	844438	65.91	ug/l	94
54)	2,4,6-Tribromophenol	20.43	858	263799	209.12	ug/l	92
55)	*d10-Phenanthrene	22.20	945	537458	40.00	ug/l	100
67)	*d12-Chrysene	29.04	1280	287472	40.00	ug/l	100
70)	Terphenyl-d14	26.41	1151	849600	65.77	ug/l	96
71)	Butylbenzylphthalate	27.74	1216	63298	8.07	ug/l	85
74)	Bis(2-Ethylhexyl)Phthalate	29.25	1290	78343	8.54	ug/l	94
76)	*d12-Perylene	32.41	1445	161302	40.00	ug/l	100

* Compound is ISTD

386

TOTAL ION CHROMATOGRAM



Data File: >B7869::G2 Quant Output File: ^B7869::QT
Name: 9417655 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-04 BTL#19

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:19
Injected at: 941224 00:53

387

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417656	DILUTION FACTOR	10/200
DATA FILE	>B7870/>B7932	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DS-05	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U J	8700
95578	2-Chlorophenol	U	8700
95487	2-Methylphenol	U	8700
108394	3&4-Methylphenol	U	8700
88755	2-Nitrophenol	U	8700
105679	2,4-Dimethylphenol	U	8700
120832	2,4-Dichlorophenol	U	8700
111444	bis(-2-Chloroethyl)Ether	U	8700
541731	1,3-Dichlorobenzene	U	8700
106467	1,4-Dichlorobenzene	U	8700
100516	Benzyl Alcohol	U	8700
95501	1,2-Dichlorobenzene	U	8700
108601	bis(2-Chloroisopropyl)ether	U	8700
621647	N-Nitroso-Di-n-propylamine	U	8700
67721	Hexachloroethane	U	8700
98953	Nitrobenzene	U	8700
78591	Isophorone	17000 J	8700
65850	Benzoic Acid	~~U~~ R	43000
111911	bis(-2-Chloroethoxy)Methane	U J	8700
120821	1,2,4-Trichlorobenzene	U	8700
91203	Naphthalene	4900 J	8700
106478	4-Chloroaniline	U	8700
87683	Hexachlorobutadiene	U	8700
91576	2-Methylnaphthalene	U	8700
77474	Hexachlorocyclopentadiene	U	8700
91587	2-Chloronaphthalene	U	8700
88744	2-Nitroaniline	U	43000
131113	Dimethyl Phthalate	U	8700
208968	Acenaphthylene	U	8700
99092	3-Nitroaniline	U	43000
83329	Acenaphthene	U	8700
132649	Dibenzofuran	U	8700
606202	2,6-Dinitrotoluene	U J	8700

CAS #	COMPOUND	UG/KG	MDL
59507	4-Chloro-3-methylphenol	U J	8700
88062	2,4,6-Trichlorophenol	U	8700
95954	2,4,5-Trichlorophenol	U	43000
51285	2,4-Dinitrophenol	U	43000
100027	4-Nitrophenol	U	43000
534521	4,6-Dinitro-2-methylphenol	U	43000
87865	Pentachlorophenol	U	43000
121142	2,4-Dinitrotoluene	U	8700
84662	Diethylphthalate	U	8700
7005723	4-Chlorophenyl-phenylether	U	8700
86737	Fluorene	U	8700
100016	4-Nitroaniline	U	43000
86306	N-Nitrosodiphenylamine	U	8700
101553	4-Bromophenyl-phenylether	U	8700
118741	Hexachlorobenzene	U	8700
85018	Phenanthrene	U	8700
120127	Anthracene	U	8700
84742	Di-n-Butylphthalate	U	8700
206440	Fluoranthene	U	8700
129000	Pyrene	U	8700
85687	Butylbenzylphthalate	110000	8700
91941	3,3'-Dichlorobenzidine	U	17000
56553	Benzo(a)Anthracene	U	8700
117817	Bis(2-Ethylhexyl)Phthalate	97000	8700
218019	Chrysene	U	8700
117840	Di-n-octyl phthalate	1600 J	8700
205992	Benzo(b)fluoranthene	U	8700
207089	Benzo(k)Fluoranthene	U	8700
50328	Benzo(a)Pyrene	U	8700
193395	Indeno(1,2,3-cd)Pyrene	U	8700
53703	Dibenzo(a,h)Anthracene	U	8700
191242	Benzo(g,h,i)Perylene	U J	8700

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	36 %	23-120	OK
2-Fluorobiphenyl	50 %	30-115	OK
Terphenyl-d14	108 %	18-137	OK
Phenol-d5	48 %	24-113	OK
2-Fluorophenol	35 %	25-121	OK
2,4,6-Tribromophenol	22 %	19-122	OK

Percent solid of 38.5 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: MARIE
Quant Rev: 7
Quant Time: 941227 15:21
Output File: ^B7870::QT
Injected at: 941224 01:41
Data File: >B7870::G2
Dilution Factor: 1.00000
Name: 9417656
Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI
BB-DS-05 BTL#20

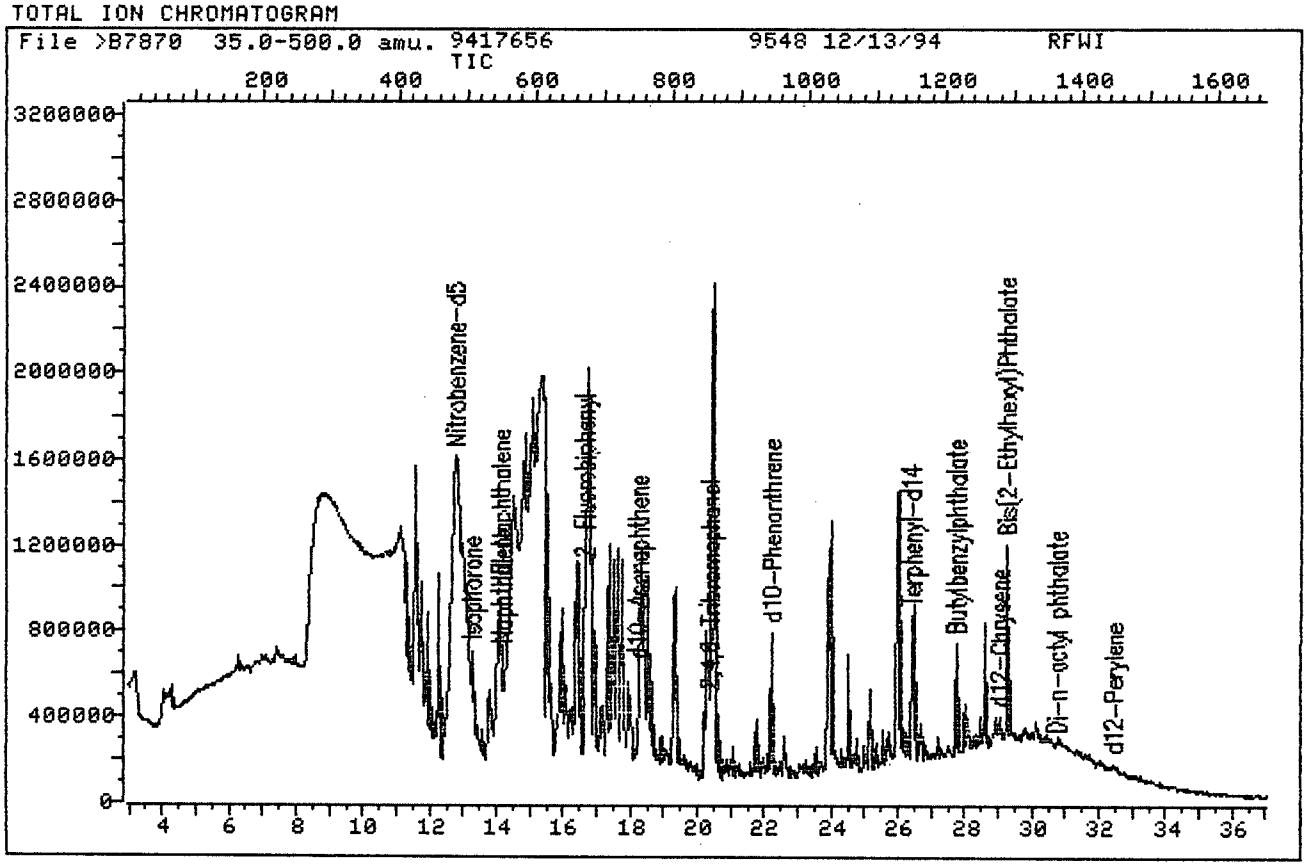
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13
Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
19)	*d8-Naphthalene	14.11	547	873864	40.00	ug/l	97
20)	Nitrobenzene-d5	12.76	481	594306	48.66	ug/l	83
22)	Isophorone	13.25	505	613146	19.60	ug/l	95
29)	Naphthalene	14.15	549	95372	5.69	ug/l	78
34)	*d10-Acenaphthene	18.24	749	272748	40.00	ug/l	97
39)	2-Fluorobiphenyl	16.62	670	1304254	122.09	ug/l	90
54)	2,4,6-Tribromophenol	20.37	853	1791	1.70	ug/l	79
55)	*d10-Phenanthrene	22.21	943	699305	40.00	ug/l	100
67)	*d12-Chrysene	29.03	1276	94371	40.00	ug/l	100
70)	Terphenyl-d14	26.41	1148	732082	172.63	ug/l	93
71)	Butylbenzylphthalate	27.74	1213	322304	125.23	ug/l	95
74)	Bis(2-Ethylhexyl)Phthalate	29.25	1287	642037	213.30	ug/l	81
76)	*d12-Perylene	32.42	1442	27712	40.00	ug/l	100
77)	Di-n-octyl phthalate	30.73	1359	3310	1.82	ug/l	87

* Compound is ISTD

388

TOTAL ION CHROMATOGRAM



Data File: >B7870::G2 Quant Output File: ^B7870::QT
Name: 9417656 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-05 BTL#20

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:21
Injected at: 941224 01:41

389

QUANT REPORT

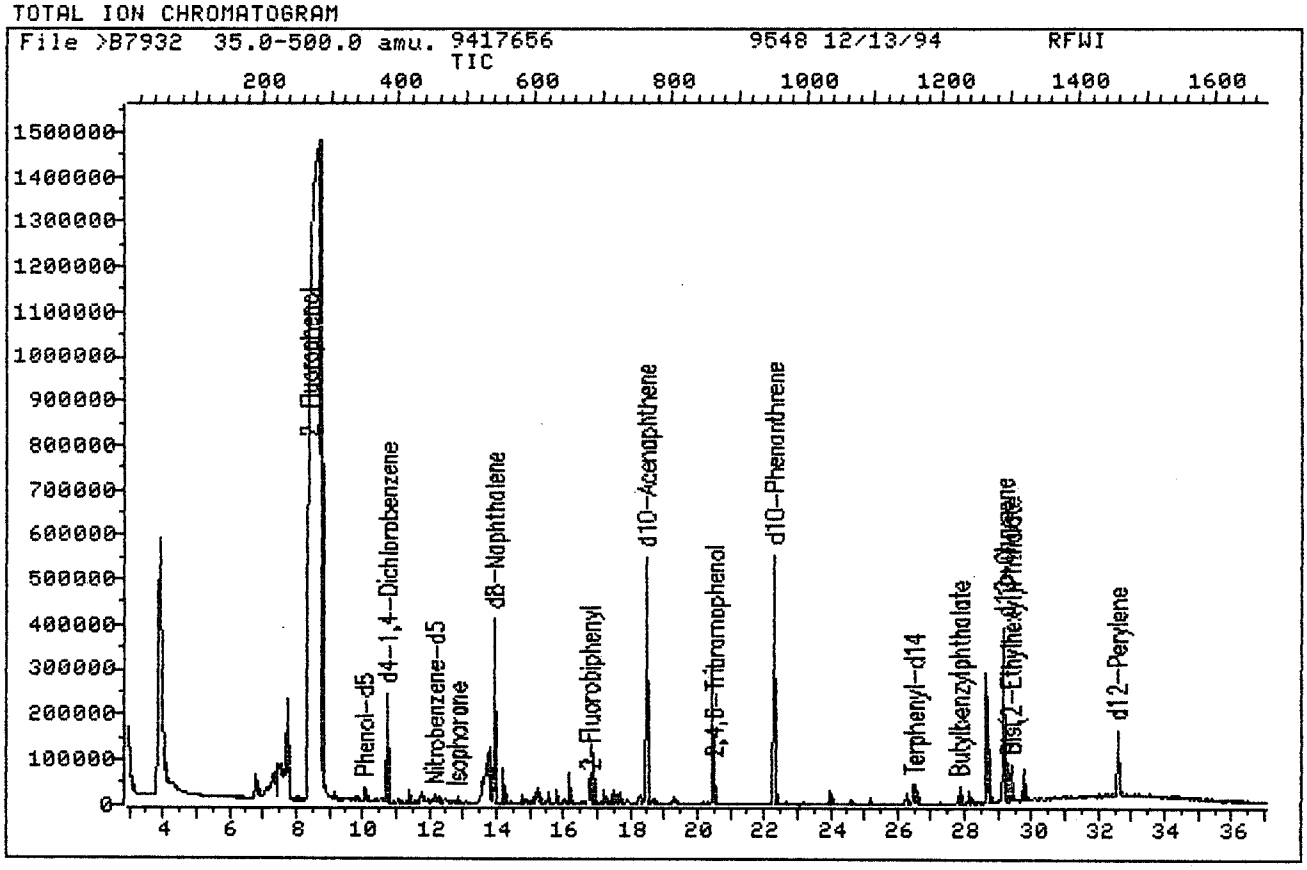
Operator ID: PAUL Quant Rev: 7 Quant Time: 941229 14:59
Output File: ^B7932::QT Injected at: 941228 16:38
Data File: >B7932::G1 Dilution Factor: 1.00000
Name: 9417656 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-05 BTL# 8

ID File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.73	382	84088	40.00	ug/l	95
4)	2-Fluorophenol	8.35	265	12517M	5.36	ug/l	
6)	Phenol-d5	10.04	348	26133	7.98	ug/l	75
19)	*d8-Naphthalene	13.91	538	421136	40.00	ug/l	99
20)	Nitrobenzene-d5	12.14	451	11241	2.99	ug/l	82
22)	Isophorone	12.81	484	11154	1.18	ug/l	80
34)	*d10-Acenaphthene	18.44	761	268107	40.00	ug/l	96
39)	2-Fluorobiphenyl	16.76	678	23723	4.57	ug/l	97
54)	2,4,6-Tribromophenol	20.50	862	4317	4.18	ug/l	98
55)	*d10-Phenanthrene	22.29	950	538022	40.00	ug/l	100
67)	*d12-Chrysene	29.15	1287	307345	40.00	ug/l	100
70)	Terphenyl-d14	26.48	1156	33238	4.68	ug/l	91
71)	Butylbenzylphthalate	27.82	1222	20338	3.28	ug/l	88
74)	Bis(2-Ethylhexyl)Phthalate	29.35	1297	48180	5.83	ug/l	96
76)	*d12-Perylene	32.55	1454	146951	40.00	ug/l	100

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B7932::G1 Quant Output File: ^B7932::QT
Name: 9417656 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-05 BTL# 8

Id File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

Operator ID: PAUL
Quant Time : 941229 14:59
Injected at: 941228 16:38

391

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417657	DILUTION FACTOR	10/500
DATA FILE	>B7871/>B7933	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DS-06	ANALYZED BY	MARIE

CAS #	COMPOUND	mg/Kg	MDL
108952	Phenol	U J	6.7
95578	2-Chlorophenol	U	6.7
95487	2-Methylphenol	U	6.7
108394	3&4-Methylphenol	U	6.7
88755	2-Nitrophenol	U	6.7
105679	2,4-Dimethylphenol	U	6.7
120832	2,4-Dichlorophenol	U	6.7
111444	bis(-2-Chloroethyl)Ether	U	6.7
541731	1,3-Dichlorobenzene	U	6.7
106467	1,4-Dichlorobenzene	U	6.7
100516	Benzyl Alcohol	U	6.7
95501	1,2-Dichlorobenzene	U	6.7
108601	bis(2-Chloroisopropyl)ether	U	6.7
621647	N-Nitroso-Di-n-propylamine	U	6.7
67721	Hexachloroethane	U	6.7
98953	Nitrobenzene	U	6.7
78591	Isophorone	560 ~~E~~ J	6.7
65850	Benzoic Acid	~~U~~ R	34
111911	bis(-2-Chloroethoxy)Methane	U J	6.7
120821	1,2,4-Trichlorobenzene	U	6.7
91203	Naphthalene	3300 E	6.7
106478	4-Chloroaniline	U	6.7
87683	Hexachlorobutadiene	U	6.7
91576	2-Methylnaphthalene	U	6.7
77474	Hexachlorocyclopentadiene	U	6.7
91587	2-Chloronaphthalene	U	6.7
88744	2-Nitroaniline	U	34
131113	Dimethyl Phthalate	U	6.7
208968	Acenaphthylene	U	6.7
99092	3-Nitroaniline	U	34
83329	Acenaphthene	U	6.7
132649	Dibenzofuran	U	6.7
606202	2,6-Dinitrotoluene	U J	6.7

CAS #	COMPOUND	mg/Kg	MDL
59507	4-Chloro-3-methylphenol	U J	6.7
88062	2,4,6-Trichlorophenol	U	6.7
95954	2,4,5-Trichlorophenol	U	34
51285	2,4-Dinitrophenol	U	34
100027	4-Nitrophenol	U	34
534521	4,6-Dinitro-2-methylphenol	U	34
87865	Pentachlorophenol	U	34
121142	2,4-Dinitrotoluene	U	6.7
84662	Diethylphthalate	U	6.7
7005723	4-Chlorophenyl-phenylether	U	6.7
86737	Fluorene	U	6.7
100016	4-Nitroaniline	U	34
86306	N-Nitrosodiphenylamine	U	6.7
101553	4-Bromophenyl-phenylether	U	6.7
118741	Hexachlorobenzene	U	6.7
85018	Phenanthrene	U	6.7
120127	Anthracene	U	6.7
84742	Di-n-Butylphthalate	U	6.7
206440	Fluoranthene	U	6.7
129000	Pyrene	U	6.7
85687	Butylbenzylphthalate	46	6.7
91941	3,3'-Dichlorobenzidine	U	13
56553	Benzo(a)Anthracene	U	6.7
117817	Bis(2-Ethylhexyl)Phthalate	7100 E	6.7
218019	Chrysene	U	6.7
117840	Di-n-octyl phthalate	6.8	6.7
205992	Benzo(b)fluoranthene	U	6.7
207089	Benzo(k)Fluoranthene	U	6.7
50328	Benzo(a)Pyrene	U	6.7
193395	Indeno(1,2,3-cd)Pyrene	U	6.7
53703	Dibenzo(a,h)Anthracene	U	6.7
191242	Benzo(g,h,i)Perylene	U J	6.7

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	108 %	23-120	OK
2-Fluorobiphenyl	66 %	30-115	OK
Terphenyl-d14	117 %	18-137	OK
Phenol-d5	61 %	24-113	OK
2-Fluorophenol	42 %	25-121	OK
2,4,6-Tribromophenol	31 %	19-122	OK

PAM

Percent solid of 49.7 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

59

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

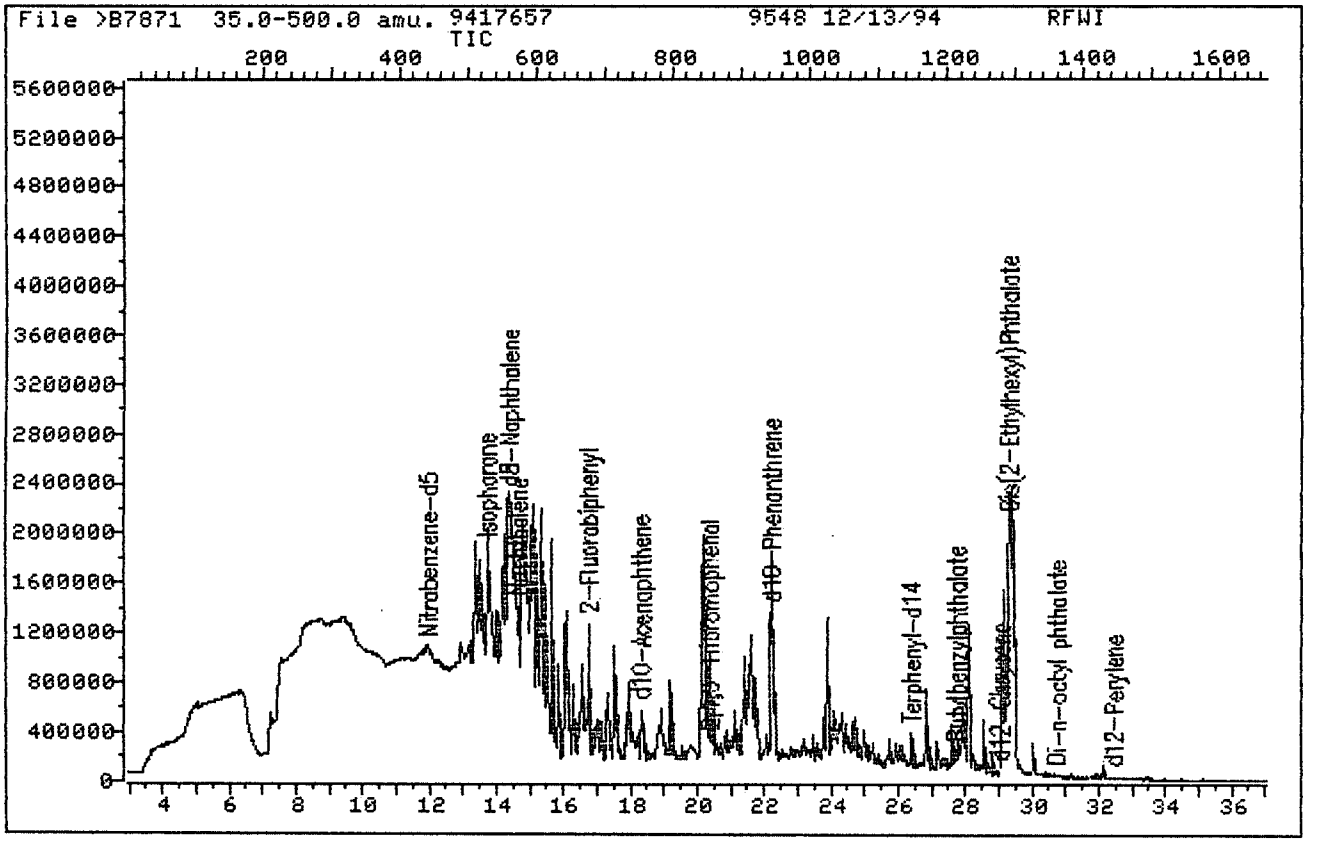
Operator ID: MARIE Quant Rev: 7 Quant Time: 941227 15:22
Output File: ^B7871::QT Injected at: 941224 02:28
Data File: >B7871::G2 Dilution Factor: 1.00000
Name: 9417657 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-06 BTL#21

ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
19)	*d8-Naphthalene	14.38	560	32631M	40.00	ug/l	74
20)	Nitrobenzene-d5	11.95	441	21011	46.07	ug/l	78
22)	Isophorone	13.69	526	671625M	575.04	ug/l	93
29)	Naphthalene	14.63	572	3180107M	5077.22	ug/l	83
34)	*d10-Acenaphthene	18.29	751	191500	40.00	ug/l	96
39)	2-Fluorobiphenyl	16.72	674	722961	96.39	ug/l	85
54)	2,4,6-Tribromophenol	20.36	852	18048	24.44	ug/l	93
55)	*d10-Phenanthrene	22.20	942	303433	40.00	ug/l	100
67)	*d12-Chrysene	29.03	1275	21600	40.00	ug/l	100
70)	Terphenyl-d14	26.39	1146	219411	226.05	ug/l	93
71)	Butylbenzylphthalate	27.74	1212	40631	68.97	ug/l	99
74)	Bis(2-Ethylhexyl)Phthalate	29.29	1288	5693053M	8263.38	ug/l	84
76)	*d12-Perylene	32.42	1441	12343	40.00	ug/l	100
77)	Di-n-octyl phthalate	30.72	1358	8182	10.09	ug/l	84

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >B7871::G2 Quant Output File: ^B7871::QT
Name: 9417657 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-06 BTL#21

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:22
Injected at: 941224 02:28

QUANT REPORT

Operator ID: PAUL
Quant Rev: 7
Quant Time: 941229 15:00
Output File: ^B7933::QT
Injected at: 941228 17:26
Data File: >B7933::G1
Dilution Factor: 1.00000
Name: 9417657
Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI
BB-DS-06 BTL# 9

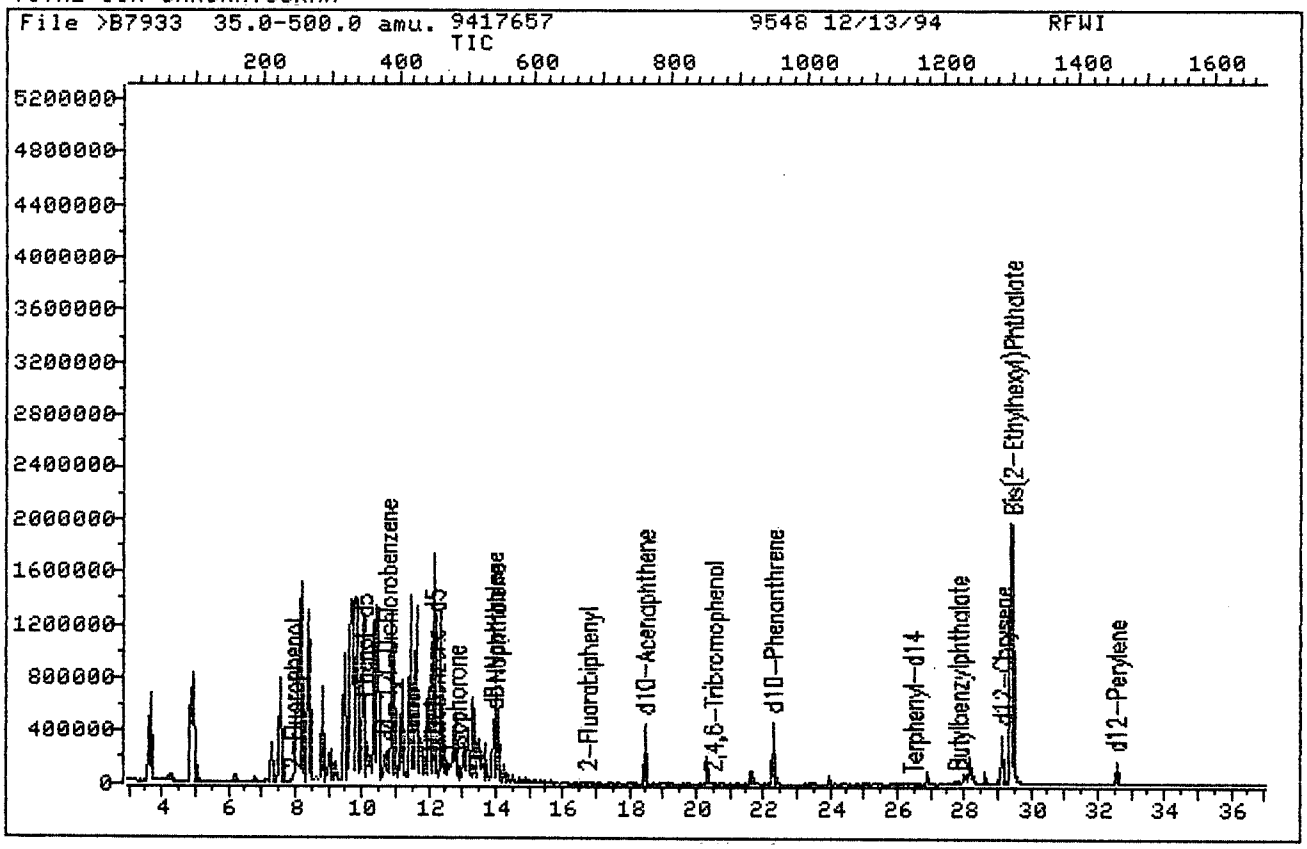
ID File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54
Last Qcal Time: 941228 09:29

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.74	382	74744	40.00	ug/l	97
4)	2-Fluorophenol	7.90	243	5418	2.61	ug/l	100
6)	Phenol-d5	10.04	348	11812	4.06	ug/l	80
19)	*d8-Naphthalene	13.92	538	340212	40.00	ug/l	97
20)	Nitrobenzene-d5	12.16	452	8616	2.83	ug/l	96
22)	Isophorone	12.80	483	110688	14.49	ug/l	93
29)	Naphthalene	13.98	541	585382	112.22	ug/l	78
34)	*d10-Acenaphthene	18.44	760	226901	40.00	ug/l	96
39)	2-Fluorobiphenyl	16.75	677	10616	2.42	ug/l	91
54)	2,4,6-Tribromophenol	20.49	861	2069	2.37	ug/l	97
55)	*d10-Phenanthrene	22.28	949	465875	40.00	ug/l	100
67)	*d12-Chrysene	29.14	1286	318814	40.00	ug/l	100
70)	Terphenyl-d14	26.47	1155	14912	2.03	ug/l	94
71)	Butylbenzylphthalate	27.81	1221	7313	1.14	ug/l	89
74)	Bis(2-Ethylhexyl)Phthalate	29.42	1300	1889545M	220.27	ug/l	89
76)	*d12-Perylene	32.54	1453	166695	40.00	ug/l	100

* Compound is ISTD

394

TOTAL ION CHROMATOGRAM



Data File: >B7933::G1 Quant Output File: ^B7933::QT
Name: 9417657 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-06 BTL# 9

Id File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

Operator ID: PAUL
Quant Time : 941229 15:00
Injected at: 941228 17:26

395

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Solid
SAMPLE NUMBER	9417658	DILUTION FACTOR	10
DATA FILE	>B7872	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DS-07	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	3400
95578	2-Chlorophenol	U	3400
95487	2-Methylphenol	U	3400
108394	3&4-Methylphenol	U	3400
88755	2-Nitrophenol	U	3400
105679	2,4-Dimethylphenol	U	3400
120832	2,4-Dichlorophenol	U	3400
111444	bis(-2-Chloroethyl)Ether	U J	3400
541731	1,3-Dichlorobenzene	U	3400
106467	1,4-Dichlorobenzene	U	3400
100516	Benzyl Alcohol	U	3400
95501	1,2-Dichlorobenzene	U	3400
108601	bis(2-Chloroisopropyl)ether	U	3400
621647	N-Nitroso-Di-n-propylamine	U	3400
67721	Hexachloroethane	U	3400
98953	Nitrobenzene	U	3400
78591	Isophorone	U	3400
65850	Benzoic Acid	~~U~~ R	17000
111911	bis(-2-Chloroethoxy)Methane	U	3400
120821	1,2,4-Trichlorobenzene	U	3400
91203	Naphthalene	460 J	3400
106478	4-Chloroaniline	U	3400
87683	Hexachlorobutadiene	U	3400
91576	2-Methylnaphthalene	U	3400
77474	Hexachlorocyclopentadiene	U	3400
91587	2-Chloronaphthalene	U	3400
88744	2-Nitroaniline	U	17000
131113	Dimethyl Phthalate	U	3400
208968	Acenaphthylene	U	3400
99092	3-Nitroaniline	U	17000
83329	Acenaphthene	U	3400
132649	Dibenzofuran	U	3400
606202	2,6-Dinitrotoluene	U	3400

CAS #	COMPOUND	UG/KG	MDL
59507	4-Chloro-3-methylphenol	U	3400
88062	2,4,6-Trichlorophenol	U	3400
95954	2,4,5-Trichlorophenol	U	17000
51285	2,4-Dinitrophenol	U	17000
100027	4-Nitrophenol	U	17000
534521	4,6-Dinitro-2-methylphenol	U	17000
87865	Pentachlorophenol	U	17000
121142	2,4-Dinitrotoluene	U	3400
84662	Diethylphthalate	U	3400
7005723	4-Chlorophenyl-phenylether	U	3400
86737	Fluorene	U	3400
100016	4-Nitroaniline	U	17000
86306	N-Nitrosodiphenylamine	U J	3400
101553	4-Bromophenyl-phenylether	U	3400
118741	Hexachlorobenzene	U	3400
85018	Phenanthrene	1500 J	3400
120127	Anthracene	U	3400
84742	Di-n-Butylphthalate	U	3400
206440	Fluoranthene	480 J	3400
129000	Pyrene	U J	3400
85687	Butylbenzylphthalate	7900 J	3400
91941	3,3'-Dichlorobenzidine	U	6900
56553	Benzo(a)Anthracene	U	3400
117817	Bis(2-Ethylhexyl)Phthalate	22000	3400
218019	Chrysene	U	3400
117840	Di-n-octyl phthalate	U	3400
205992	Benzo(b)fluoranthene	U	3400
207089	Benzo(k)Fluoranthene	U	3400
50328	Benzo(a)Pyrene	U	3400
193395	Indeno(1,2,3-cd)Pyrene	U	3400
53703	Dibenzo(a,h)Anthracene	U	3400
191242	Benzo(g,h,i)Perylene	U J	3400

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	58 %	23-120	OK
2-Fluorobiphenyl	72 %	30-115	OK
Terphenyl-d14	106 %	18-137	OK
Phenol-d5	91 %	24-113	OK
2-Fluorophenol	57 %	25-121	OK
2,4,6-Tribromophenol	65 %	19-122	OK

Percent solid of 97.2 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

60

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

Operator ID: MARIE Quant Rev: 7 Quant Time: 941227 15:24
Output File: ^B7872::QT Injected at: 941224 03:16
Data File: >B7872::G2 Dilution Factor: 1.00000
Name: 9417658 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-07 BTL#22

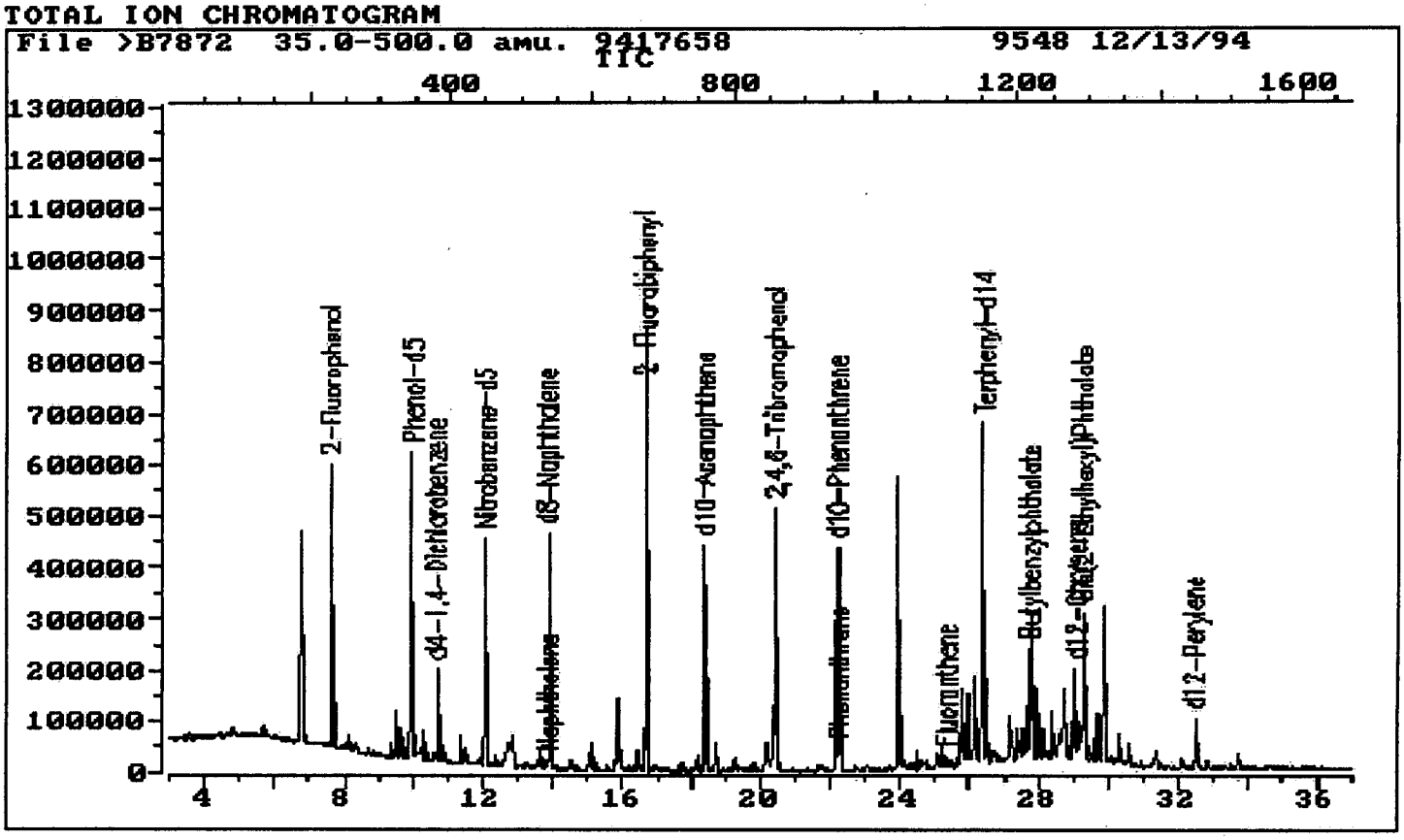
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.63	377	80088	40.00	ug/l	96
4)	2-Fluorophenol	7.60	228	313166	113.16	ug/l	100
6)	Phenol-d5	9.96	344	664429	181.27	ug/l	81
19)	*d8-Naphthalene	13.82	534	447270	40.00	ug/l	98
20)	Nitrobenzene-d5	12.05	447	363514	58.16	ug/l	90
29)	Naphthalene	13.86	536	11459	1.33	ug/l	75
34)	*d10-Acenaphthene	18.34	756	278821	40.00	ug/l	96
39)	2-Fluorobiphenyl	16.67	674	783560	71.75	ug/l	94
54)	2,4,6-Tribromophenol	20.42	858	140368	130.55	ug/l	93
55)	*d10-Phenanthrene	22.19	945	436691	40.00	ug/l	100
62)	Phenanthrene	22.23	947	38253	4.42	ug/l	72
66)	Fluoranthene	25.31	1098	13901	1.39	ug/l	71
67)	*d12-Chrysene	29.03	1280	134171	40.00	ug/l	100
70)	Terphenyl-d14	26.41	1152	639415	106.05	ug/l	92
71)	Butylbenzylphthalate	27.72	1216	83859	22.92	ug/l	88
74)	Bis(2-Ethylhexyl)Phthalate	29.23	1290	280014	65.43	ug/l	96
76)	*d12-Perylene	32.42	1446	94440	40.00	ug/l	100

* Compound is ISTD

396

TOTAL ION CHROMATOGRAM



Data File: >B7872::G2 Quant Output File: ^B7872::QT
Name: 9417658 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DS-07 BTL#22

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:24
Injected at: 941224 03:16

397

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417659	DILUTION FACTOR	100
DATA FILE	>B7873	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DL-01	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/Kg	MDL
108952	Phenol	U	1000
95578	2-Chlorophenol	U	1000
95487	2-Methylphenol	U	1000
108394	3&4-Methylphenol	U	1000
88755	2-Nitrophenol	U	1000
105679	2,4-Dimethylphenol	U	1000
120832	2,4-Dichlorophenol	U	1000
111444	bis(-2-Chloroethyl)Ether	U J	1000
541731	1,3-Dichlorobenzene	U	1000
106467	1,4-Dichlorobenzene	U	1000
100516	Benzyl Alcohol	U	1000
95501	1,2-Dichlorobenzene	U	1000
108601	bis(2-Chloroisopropyl)ether	U	1000
621647	N-Nitroso-Di-n-propylamine	U J	1000
67721	Hexachloroethane	U	1000
98953	Nitrobenzene	U	1000
78591	Isophorone	U	1000
65850	Benzoic Acid	UA	5000
111911	bis(-2-Chloroethoxy)Methane	U	1000
120821	1,2,4-Trichlorobenzene	U	1000
91203	Naphthalene	U	1000
106478	4-Chloroaniline	U	1000
87683	Hexachlorobutadiene	U	1000
91576	2-Methylnaphthalene	U	1000
77474	Hexachlorocyclopentadiene	U	1000
91587	2-Chloronaphthalene	U	1000
88744	2-Nitroaniline	U	5000
131113	Dimethyl Phthalate	U	1000
208968	Acenaphthylene	U	1000
99092	3-Nitroaniline	U	5000
83329	Acenaphthene	U	1000
132649	Dibenzofuran	U	1000
606202	2,6-Dinitrotoluene	U	1000

CAS #	COMPOUND	UG/Kg	MDL
59507	4-Chloro-3-methylphenol	U	1000
88062	2,4,6-Trichlorophenol	U	1000
95954	2,4,5-Trichlorophenol	U	5000
51285	2,4-Dinitrophenol	U	5000
100027	4-Nitrophenol	U	5000
534521	4,6-Dinitro-2-methylphenol	U	5000
87865	Pentachlorophenol	U	5000
121142	2,4-Dinitrotoluene	U	1000
84662	Diethylphthalate	U	1000
7005723	4-Chlorophenyl-phenylether	U	1000
86737	Fluorene	U	1000
100016	4-Nitroaniline	U	5000
86306	N-Nitrosodiphenylamine	U	1000
101553	4-Bromophenyl-phenylether	U	1000
118741	Hexachlorobenzene	U	1000
85018	Phenanthrene	U	1000
120127	Anthracene	U	1000
84742	Di-n-Butylphthalate	U	1000
206440	Fluoranthene	U	1000
129000	Pyrene	U J	1000
85687	Butylbenzylphthalate	U	1000
91941	3,3'-Dichlorobenzidine	U	2000
56553	Benzo(a)Anthracene	U	1000
117817	Bis(2-Ethylhexyl)Phthalate	780 J	1000
218019	Chrysene	U	1000
117840	Di-n-octyl phthalate	U	1000
205992	Benzo(b)fluoranthene	U	1000
207089	Benzo(k)Fluoranthene	U	1000
50328	Benzo(a)Pyrene	U	1000
193395	Indeno(1,2,3-cd)Pyrene	U	1000
53703	Dibenzo(a,h)Anthracene	U	1000
191242	Benzo(g,h,i)Perylene	U J	1000

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	74 %	35-114	OK
2-Fluorobiphenyl	104 %	43-116	OK
Terphenyl-d14	103 %	33-141	OK
Phenol-d5	120 %	10- 94	OUT
2-Fluorophenol	82 %	21-100	OK
2,4,6-Tribromophenol	61 %	10-123	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

61

QUANT REPORT

Operator ID: MARIE
Output File: ^B7873::QT
Data File: >B7873::G2
Name: 9417659
Misc: 9548 12/13/94 RFWI

Quant Rev: 7
Quant Time: 941227 15:25
Injected at: 941224 04:03
Dilution Factor: 1.00000
Instrument ID: HP5970BB
BB-DL-01 BTL#23

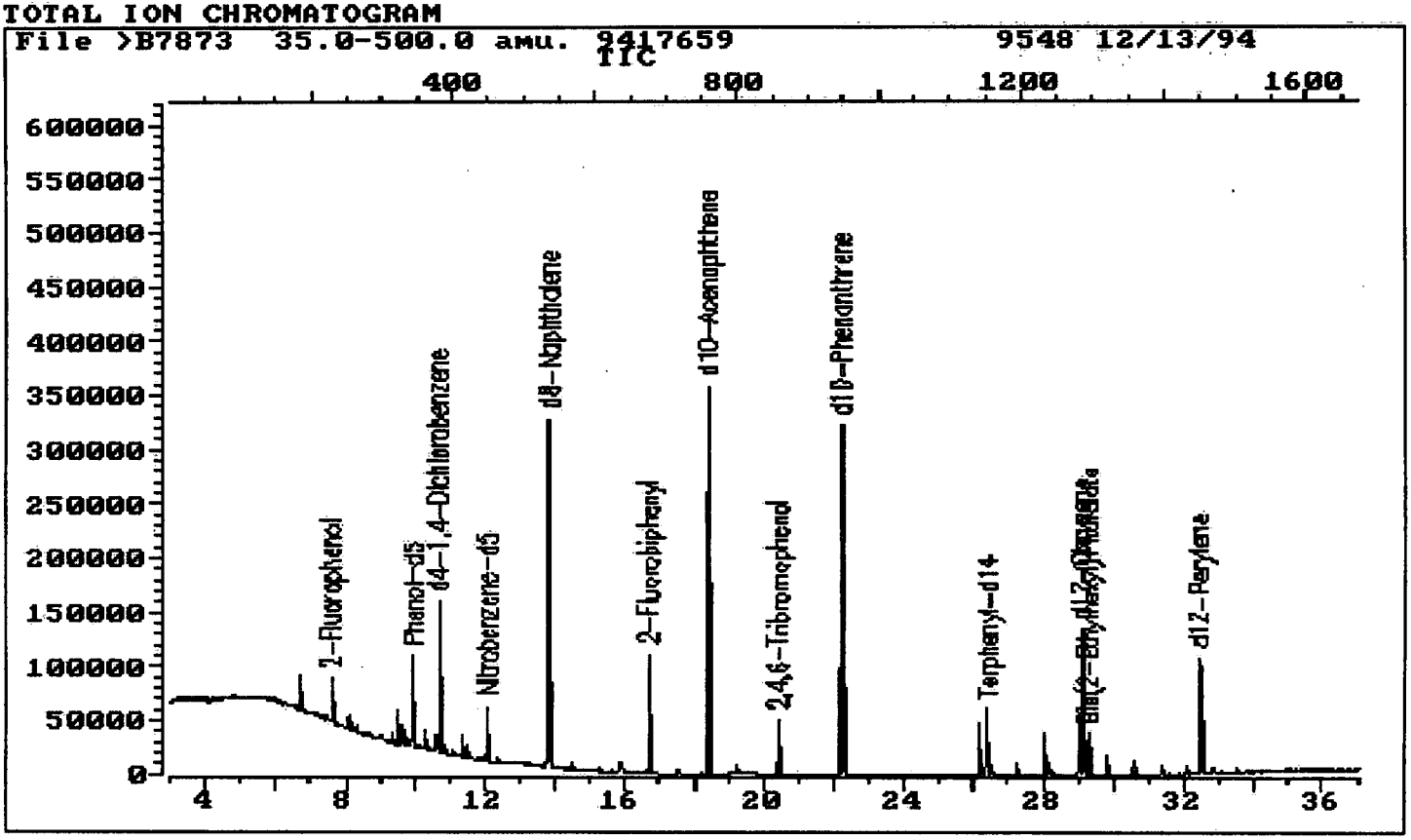
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13
Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.63	377	55295	40.00	ug/l	94
4)	2-Fluorophenol	7.56	226	31326	16.39	ug/l	100
6)	Phenol-d5	9.91	342	60790	24.02	ug/l	87
19)	*d8-Naphthalene	13.82	534	296346	40.00	ug/l	99
20)	Nitrobenzene-d5	12.03	446	30722	7.42	ug/l	97
34)	*d10-Acenaphthene	18.35	757	208625	40.00	ug/l	94
39)	2-Fluorobiphenyl	16.67	674	85293	10.44	ug/l	91
54)	2,4,6-Tribromophenol	20.39	857	9744	12.11	ug/l	92
55)	*d10-Phenanthrene	22.18	945	338760	40.00	ug/l	100
67)	*d12-Chrysene	29.01	1281	123834	40.00	ug/l	100
70)	Terphenyl-d14	26.37	1151	57272	10.29	ug/l	94
74)	Bis(2-Ethylhexyl)Phthalate	29.23	1292	30717	7.78	ug/l	98
76)	*d12-Perylene	32.41	1448	115275	40.00	ug/l	100

* Compound is ISTD

398

TOTAL ION CHROMATOGRAM



Data File: >B7873::G2 Quant Output File: ^B7873::QT
Name: 9417659 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-01 BTL#23

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:25
Injected at: 941224 04:03

399

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417660	DILUTION FACTOR	100
DATA FILE	>B7874	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DL-02	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/Kg	MDL
108952	Phenol	U	1000
95578	2-Chlorophenol	U	1000
95487	2-Methylphenol	U	1000
108394	3&4-Methylphenol	U	1000
88755	2-Nitrophenol	U	1000
105679	2,4-Dimethylphenol	U	1000
120832	2,4-Dichlorophenol	U	1000
111444	bis(-2-Chloroethyl)Ether	U J	1000
541731	1,3-Dichlorobenzene	U	1000
106467	1,4-Dichlorobenzene	U	1000
100516	Benzyl Alcohol	U	1000
95501	1,2-Dichlorobenzene	U	1000
108601	bis(2-Chloroisopropyl)ether	U	1000
621647	N-Nitroso-Di-n-propylamine	U J	1000
67721	Hexachloroethane	U	1000
98953	Nitrobenzene	U	1000
78591	Isophorone	U	1000
65850	Benzoic Acid	~~U~~ R	5000
111911	bis(-2-Chloroethoxy)Methane	U	1000
120821	1,2,4-Trichlorobenzene	U	1000
91203	Naphthalene	U	1000
106478	4-Chloroaniline	U	1000
87683	Hexachlorobutadiene	U	1000
91576	2-Methylnaphthalene	U	1000
77474	Hexachlorocyclopentadiene	U	1000
91587	2-Chloronaphthalene	U	1000
88744	2-Nitroaniline	U	5000
131113	Dimethyl Phthalate	U	1000
208968	Acenaphthylene	U	1000
99092	3-Nitroaniline	U	5000
83329	Acenaphthene	U	1000
132649	Dibenzofuran	U	1000
606202	2,6-Dinitrotoluene	U	1000

CAS #	COMPOUND	UG/Kg	MDL
59507	4-Chloro-3-methylphenol	U	1000
88062	2,4,6-Trichlorophenol	U	1000
95954	2,4,5-Trichlorophenol	U	5000
51285	2,4-Dinitrophenol	U	5000
100027	4-Nitrophenol	U	5000
534521	4,6-Dinitro-2-methylphenol	U	5000
87865	Pentachlorophenol	U	5000
121142	2,4-Dinitrotoluene	U	1000
84662	Diethylphthalate	U	1000
7005723	4-Chlorophenyl-phenylether	U	1000
86737	Fluorene	U	1000
100016	4-Nitroaniline	U	5000
86306	N-Nitrosodiphenylamine	U	1000
101553	4-Bromophenyl-phenylether	U	1000
118741	Hexachlorobenzene	U	1000
85018	Phenanthrene	U	1000
120127	Anthracene	U	1000
84742	Di-n-Butylphthalate	U	1000
206440	Fluoranthene	U	1000
129000	Pyrene	U J	1000
85687	Butylbenzylphthalate	U	1000
91941	3,3'-Dichlorobenzidine	U	2000
56553	Benzo(a)Anthracene	U	1000
117817	Bis(2-Ethylhexyl)Phthalate	U	1000
218019	Chrysene	U	1000
117840	Di-n-octyl phthalate	U	1000
205992	Benzo(b)fluoranthene	U	1000
207089	Benzo(k)Fluoranthene	U	1000
50328	Benzo(a)Pyrene	U	1000
193395	Indeno(1,2,3-cd)Pyrene	U	1000
53703	Dibenzo(a,h)Anthracene	U	1000
191242	Benzo(g,h,i)Perylene	UJ	1000

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	74 %	35-114	OK
2-Fluorobiphenyl	108 %	43-116	OK
Terphenyl-d14	116 %	33-141	OK
Phenol-d5	118 %	10- 94	OUT
2-Fluorophenol	73 %	21-100	OK
2,4,6-Tribromophenol	60 %	10-123	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

Operator ID: MARIE
Output File: ^B7874::QT
Data File: >B7874::G2
Name: 9417660
Misc: 9548 12/13/94 RFWI

Quant Rev: 7
Quant Time: 941227 15:26
Injected at: 941224 04:51
Dilution Factor: 1.00000
Instrument ID: HP5970BB
BB-DL-02 BTL#24

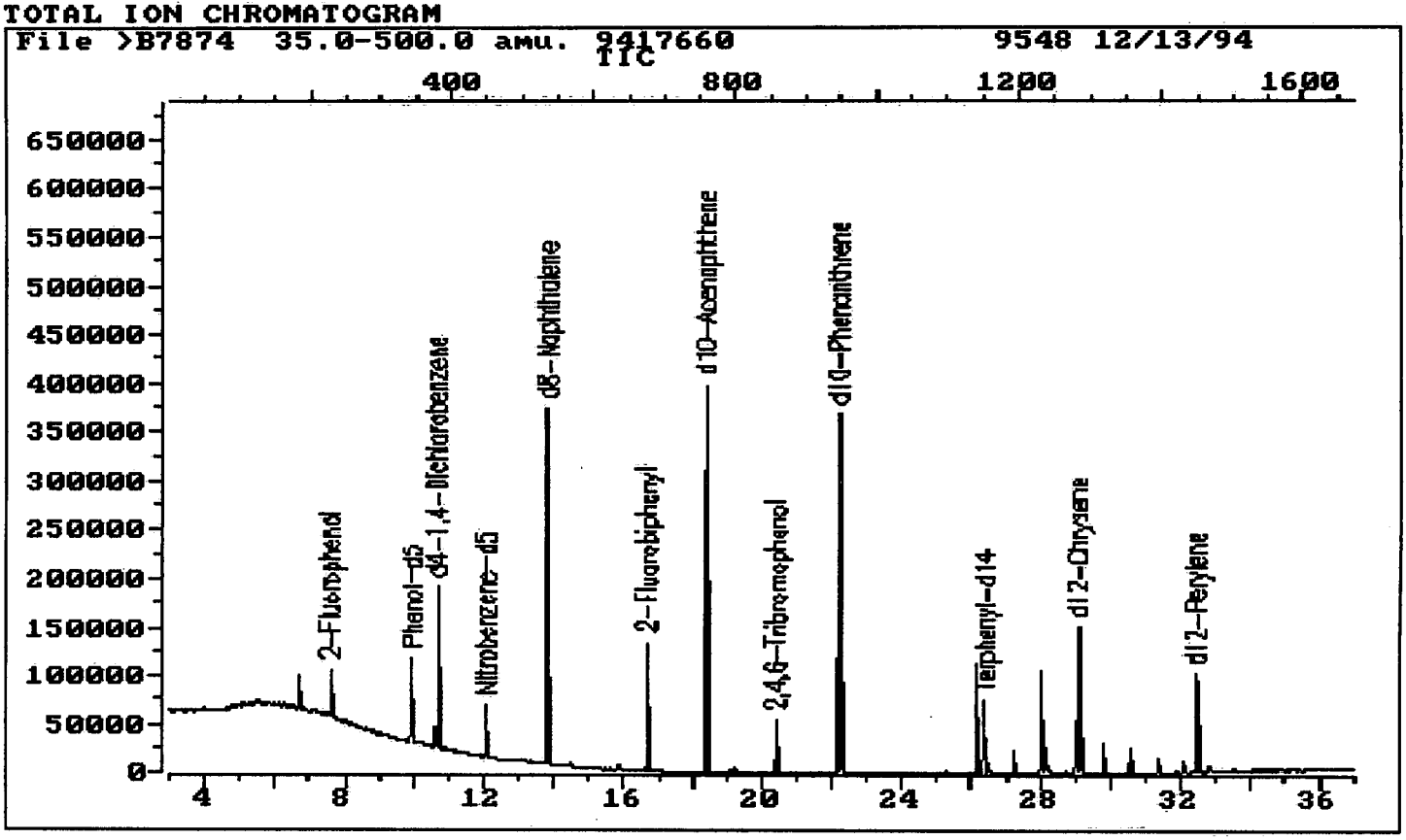
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13
Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.63	377	64988	40.00	ug/l	96
4)	2-Fluorophenol	7.56	226	32568	14.50	ug/l	100
6)	Phenol-d5	9.91	342	69944	23.52	ug/l	82
19)	*d8-Naphthalene	13.82	534	362430	40.00	ug/l	99
20)	Nitrobenzene-d5	12.03	446	37714	7.45	ug/l	93
34)	*d10-Acenaphthene	18.35	757	238444	40.00	ug/l	94
39)	2-Fluorobiphenyl	16.67	674	100663	10.78	ug/l	88
54)	2,4,6-Tribromophenol	20.39	857	10987	11.95	ug/l	91
55)	*d10-Phenanthrene	22.18	945	396240	40.00	ug/l	100
67)	*d12-Chrysene	29.01	1281	116709	40.00	ug/l	100
70)	Terphenyl-d14	26.37	1151	61067	11.64	ug/l	97
76)	*d12-Perylene	32.41	1448	113760	40.00	ug/l	100

* Compound is ISTD

400

TOTAL ION CHROMATOGRAM



Data File: >B7874::G2 Quant Output File: ^B7874::QT
Name: 9417660 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-02 BTL#24

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:26
Injected at: 941224 04:51

401

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417661	DILUTION FACTOR	100
DATA FILE	>B7875	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DL-03	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/Kg	MDL
108952	Phenol	U	1000
95578	2-Chlorophenol	U	1000
95487	2-Methylphenol	U	1000
108394	3&4-Methylphenol	U	1000
88755	2-Nitrophenol	U	1000
105679	2,4-Dimethylphenol	U	1000
120832	2,4-Dichlorophenol	U	1000
111444	bis(-2-Chloroethyl)Ether	U J	1000
541731	1,3-Dichlorobenzene	U	1000
106467	1,4-Dichlorobenzene	U	1000
100516	Benzyl Alcohol	U	1000
95501	1,2-Dichlorobenzene	U	1000
108601	bis(2-Chloroisopropyl)ether	U	1000
621647	N-Nitroso-Di-n-propylamine	U J	1000
67721	Hexachloroethane	U	1000
98953	Nitrobenzene	U	1000
78591	Isophorone	U	1000
65850	Benzoic Acid	~~U~~ R	5000
111911	bis(-2-Chloroethoxy)Methane	U	1000
120821	1,2,4-Trichlorobenzene	U	1000
91203	Naphthalene	U	1000
106478	4-Chloroaniline	U	1000
87683	Hexachlorobutadiene	U	1000
91576	2-Methylnaphthalene	U	1000
77474	Hexachlorocyclopentadiene	U	1000
91587	2-Chloronaphthalene	U	1000
88744	2-Nitroaniline	U	5000
131113	Dimethyl Phthalate	U	1000
208968	Acenaphthylene	U	1000
99092	3-Nitroaniline	U	5000
83329	Acenaphthene	U	1000
132649	Dibenzofuran	U	1000
606202	2,6-Dinitrotoluene	U	1000

CAS #	COMPOUND	UG/Kg	MDL
59507	4-Chloro-3-methylphenol	U	1000
88062	2,4,6-Trichlorophenol	U	1000
95954	2,4,5-Trichlorophenol	U	5000
51285	2,4-Dinitrophenol	U	5000
100027	4-Nitrophenol	~~U~~ R	5000
534521	4,6-Dinitro-2-methylphenol	U	5000
87865	Pentachlorophenol	~~U~~ R	5000
121142	2,4-Dinitrotoluene	U	1000
84662	Diethylphthalate	U	1000
7005723	4-Chlorophenyl-phenylether	U	1000
86737	Fluorene	U	1000
100016	4-Nitroaniline	U	5000
86306	N-Nitrosodiphenylamine	U	1000
101553	4-Bromophenyl-phenylether	U	1000
118741	Hexachlorobenzene	U	1000
85018	Phenanthrene	U	1000
120127	Anthracene	U	1000
84742	Di-n-Butylphthalate	U	1000
206440	Fluoranthene	U	1000
129000	Pyrene	U J	1000
85687	Butylbenzylphthalate	U	1000
91941	3,3'-Dichlorobenzidine	U	2000
56553	Benzo(a)Anthracene	U	1000
117817	Bis(2-Ethylhexyl)Phthalate	U	1000
218019	Chrysene	U	1000
117840	Di-n-octyl phthalate	U	1000
205992	Benzo(b)fluoranthene	U	1000
207089	Benzo(k)Fluoranthene	U	1000
50328	Benzo(a)Pyrene	U	1000
193395	Indeno(1,2,3-cd)Pyrene	U	1000
53703	Dibenzo(a,h)Anthracene	U	1000
191242	Benzo(g,h,i)Perylene	U J	1000

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	71 %	35-114	OK
2-Fluorobiphenyl	101 %	43-116	OK
Terphenyl-d14	95 %	33-141	OK
Phenol-d5	111 %	10- 94	OUT
2-Fluorophenol	45 %	21-100	OK
2,4,6-Tribromophenol	62 %	10-123	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

Operator ID: MARIE Quant Rev: 7 Quant Time: 941227 15:27
Output File: ^B7875::QT Injected at: 941224 05:38
Data File: >B7875::G2 Dilution Factor: 1.00000
Name: 9417661 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-03 BTL#25

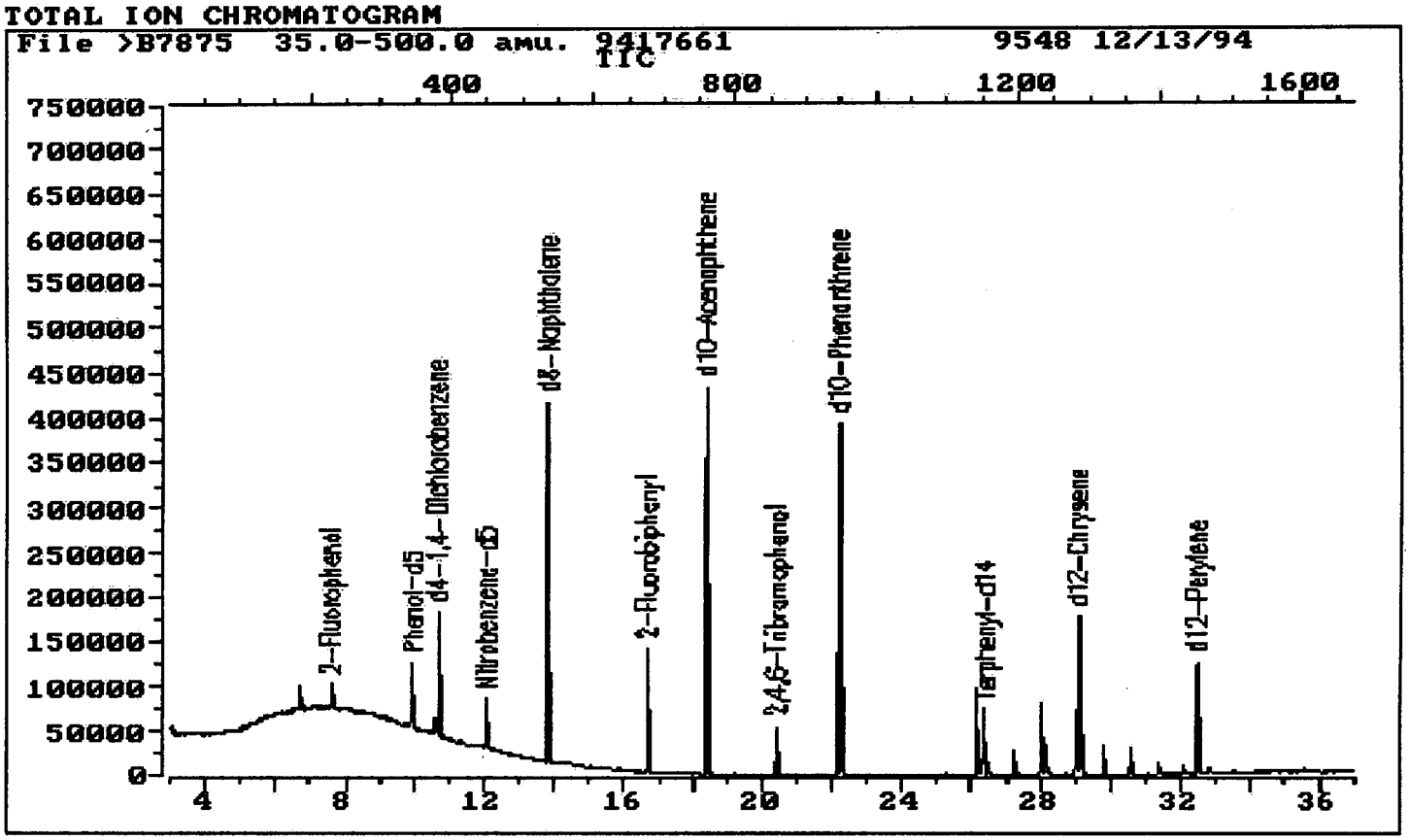
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.63	377	53594	40.00	ug/l	97
4)	2-Fluorophenol	7.56	226	16675	9.00	ug/l	100
6)	Phenol-d5	9.91	342	54315	22.14	ug/l	83
19)	*d8-Naphthalene	13.82	534	382609	40.00	ug/l	99
20)	Nitrobenzene-d5	12.03	446	37956	7.10	ug/l	97
34)	*d10-Acenaphthene	18.35	757	254449	40.00	ug/l	91
39)	2-Fluorobiphenyl	16.67	674	100863	10.12	ug/l	92
54)	2,4,6-Tribromophenol	20.39	857	12157	12.39	ug/l	94
55)	*d10-Phenanthrene	22.18	945	420877	40.00	ug/l	100
67)	*d12-Chrysene	29.01	1281	153774	40.00	ug/l	100
70)	Terphenyl-d14	26.37	1151	65424	9.47	ug/l	89
76)	*d12-Perylene	32.43	1449	141260	40.00	ug/l	100

* Compound is ISTD

402

TOTAL ION CHROMATOGRAM



Data File: >B7875::G2 Quant Output File: ^B7875::QT
Name: 9417661 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-03 BTL#25

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:27
Injected at: 941224 05:38

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417662	DILUTION FACTOR	100
DATA FILE	>B7876	DATE EXTRACTED	12/13/94
CLIENT NAME	RFW1	DATE ANALYZED	12/24/94
FIELD ID	BB-DL-04	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/kg	MDL
108952	Phenol	U	1000
95578	2-Chlorophenol	U	1000
95487	2-Methylphenol	U	1000
108394	3&4-Methylphenol	U	1000
88755	2-Nitrophenol	U	1000
105679	2,4-Dimethylphenol	U	1000
120832	2,4-Dichlorophenol	U	1000
111444	bis(-2-Chloroethyl)Ether	U	1000
541731	1,3-Dichlorobenzene	U	1000
106467	1,4-Dichlorobenzene	U	1000
100516	Benzyl Alcohol	U	1000
95501	1,2-Dichlorobenzene	U	1000
108601	bis(2-Chloroisopropyl)ether	U	1000
621647	N-Nitroso-Di-n-propylamine	U	1000
67721	Hexachloroethane	U	1000
98953	Nitrobenzene	U	1000
78591	Isophorone	U	1000
65850	Benzoic Acid	UR	5000
111911	bis(-2-Chloroethoxy)Methane	U	1000
120821	1,2,4-Trichlorobenzene	U	1000
91203	Naphthalene	U	1000
106478	4-Chloroaniline	U	1000
87683	Hexachlorobutadiene	U	1000
91576	2-Methylnaphthalene	U	1000
77474	Hexachlorocyclopentadiene	U	1000
91587	2-Chloronaphthalene	U	1000
88744	2-Nitroaniline	U	5000
131113	Dimethyl Phthalate	U	1000
208968	Acenaphthylene	U	1000
99092	3-Nitroaniline	U	5000
83329	Acenaphthene	U	1000
132649	Dibenzofuran	U	1000
606202	2,6-Dinitrotoluene	U	1000

CAS #	COMPOUND	UG/kg	MDL
59507	4-Chloro-3-methylphenol	U	1000
88062	2,4,6-Trichlorophenol	U	1000
95954	2,4,5-Trichlorophenol	U	5000
51285	2,4-Dinitrophenol	U	5000
100027	4-Nitrophenol	U	5000
534521	4,6-Dinitro-2-methylphenol	U	5000
87865	Pentachlorophenol	U	5000
121142	2,4-Dinitrotoluene	U	1000
84662	Diethylphthalate	U	1000
7005723	4-Chlorophenyl-phenylether	U	1000
86737	Fluorene	U	1000
100016	4-Nitroaniline	U	5000
86306	N-Nitrosodiphenylamine	U	1000
101553	4-Bromophenyl-phenylether	U	1000
118741	Hexachlorobenzene	U	1000
85018	Phenanthrene	U	1000
120127	Anthracene	U	1000
84742	Di-n-Butylphthalate	U	1000
206440	Fluoranthene	U	1000
129000	Pyrene	UJ	1000
85687	Butylbenzylphthalate	U	1000
91941	3,3'-Dichlorobenzidine	U	2000
56553	Benzo(a)Anthracene	U	1000
117817	Bis(2-Ethylhexyl)Phthalate	U	1000
218019	Chrysene	U	1000
117840	Di-n-octyl phthalate	U	1000
205992	Benzo(b)fluoranthene	U	1000
207089	Benzo(k)Fluoranthene	U	1000
50328	Benzo(a)Pyrene	U	1000
193395	Indeno(1,2,3-cd)Pyrene	U	1000
53703	Dibenzo(a,h)Anthracene	U	1000
191242	Benzo(g,h,i)Perylene	UJ	1000

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	70 %	35-114	OK
2-Fluorobiphenyl	95 %	43-116	OK
Terphenyl-d14	90 %	33-141	OK
Phenol-d5	95 %	10- 94	OUT
2-Fluorophenol	47 %	21-100	OK
2,4,6-Tribromophenol	57 %	10-123	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

Operator ID: MARIE Quant Rev: 7 Quant Time: 941227 15:28
Output File: ^B7876::QT Injected at: 941224 06:25
Data File: >B7876::G2 Dilution Factor: 1.00000
Name: 9417662 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-04 BTL#26

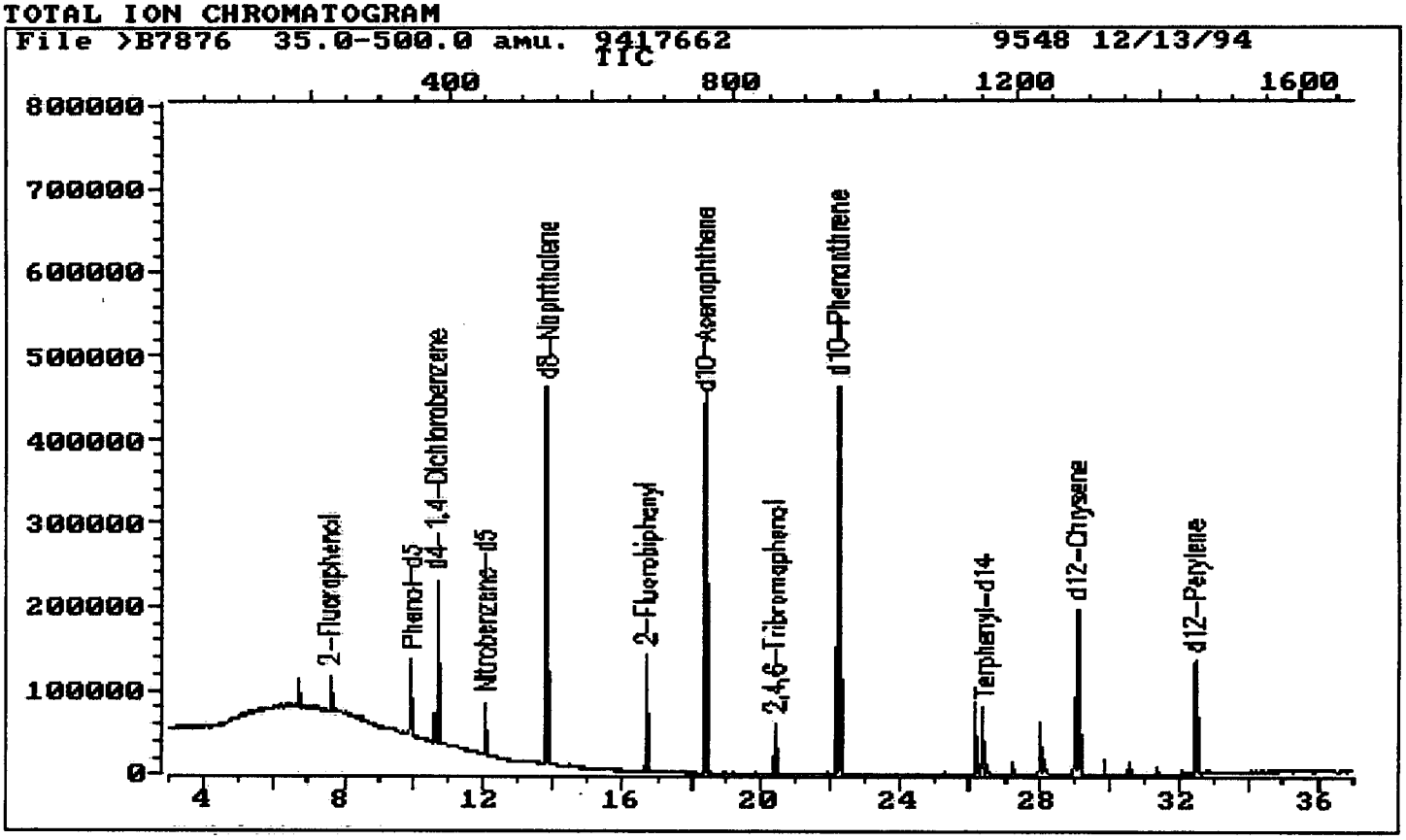
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.63	377	75666	40.00	ug/l	95
4)	2-Fluorophenol	7.56	226	24819	9.49	ug/l	100
6)	Phenol-d5	9.91	342	65855	19.02	ug/l	83
19)	*d8-Naphthalene	13.82	534	424979	40.00	ug/l	99
20)	Nitrobenzene-d5	12.03	446	41436	6.98	ug/l	96
34)	*d10-Acenaphthene	18.33	756	287354	40.00	ug/l	95
39)	2-Fluorobiphenyl	16.67	674	107081	9.51	ug/l	94
54)	2,4,6-Tribromophenol	20.39	857	12567	11.34	ug/l	93
55)	*d10-Phenanthrene	22.18	945	463996	40.00	ug/l	100
67)	*d12-Chrysene	29.01	1281	171782	40.00	ug/l	100
70)	Terphenyl-d14	26.37	1151	69757	9.04	ug/l	92
76)	*d12-Perylene	32.41	1448	152304	40.00	ug/l	100

* Compound is ISTD

404

TOTAL ION CHROMATOGRAM



Data File: >B7876::G2 Quant Output File: ^B7876::QT
Name: 9417662 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-04 BTL#26

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:28
Injected at: 941224 06:25

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417663	DILUTION FACTOR	300/15000
DATA FILE	>B7877/>B7934	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DL-05	ANALYZED BY	MARIE

CAS #	COMPOUND	mg/Kg	MDL
108952	Phenol	U	3.0
95578	2-Chlorophenol	U	3.0
95487	2-Methylphenol	U	3.0
108394	3&4-Methylphenol	U	3.0
88755	2-Nitrophenol	U	3.0
105679	2,4-Dimethylphenol	U	3.0
120832	2,4-Dichlorophenol	U	3.0
111444	bis(-2-Chloroethyl)Ether	U J	3.0
541731	1,3-Dichlorobenzene	U	3.0
106467	1,4-Dichlorobenzene	U	3.0
100516	Benzyl Alcohol	U	3.0
95501	1,2-Dichlorobenzene	U	3.0
108601	bis(2-Chloroisopropyl)ether	U	3.0
621647	N-Nitroso-Di-n-propylamine	U J	3.0
67721	Hexachloroethane	U	3.0
98953	Nitrobenzene	U	3.0
78591	Isophorone	U	3.0
65850	Benzoic Acid	~~U~~ R	15
111911	bis(-2-Chloroethoxy)Methane	U	3.0
120821	1,2,4-Trichlorobenzene	U	3.0
91203	Naphthalene	U	3.0
106478	4-Chloroaniline	U	3.0
87683	Hexachlorobutadiene	U	3.0
91576	2-Methylnaphthalene	U	3.0
77474	Hexachlorocyclopentadiene	U	3.0
91587	2-Chloronaphthalene	U	3.0
88744	2-Nitroaniline	U	15
131113	Dimethyl Phthalate	U	3.0
208968	Acenaphthylene	U	3.0
99092	3-Nitroaniline	U	15
83329	Acenaphthene	U	3.0
132649	Dibenzofuran	U	3.0
606202	2,6-Dinitrotoluene	U	3.0

CAS #	COMPOUND	mg/Kg	MDL
59507	4-Chloro-3-methylphenol	U	3.0
88062	2,4,6-Trichlorophenol	U	3.0
95954	2,4,5-Trichlorophenol	U	15
51285	2,4-Dinitrophenol	U	15
100027	4-Nitrophenol	U	15
534521	4,6-Dinitro-2-methylphenol	U	15
87865	Pentachlorophenol	U	15
121142	2,4-Dinitrotoluene	U	3.0
84662	Diethylphthalate	U	3.0
7005723	4-Chlorophenyl-phenylether	U	3.0
86737	Fluorene	U	3.0
100016	4-Nitroaniline	U	15
86306	N-Nitrosodiphenylamine	U	3.0
101553	4-Bromophenyl-phenylether	U	3.0
118741	Hexachlorobenzene	U	3.0
85018	Phenanthrene	U	3.0
120127	Anthracene	U	3.0
84742	Di-n-Butylphthalate	U	3.0
206440	Fluoranthene	U	3.0
129000	Pyrene	U J	3.0
85687	Butylbenzylphthalate	14	3.0
91941	3,3'-Dichlorobenzidine	U	6.0
56553	Benzo(a)Anthracene	U	3.0
117817	Bis(2-Ethylhexyl)Phthalate	190	3.0
218019	Chrysene	U	3.0
117840	Di-n-octyl phthalate	U	3.0
205992	Benzo(b)fluoranthene	U	3.0
207089	Benzo(k)Fluoranthene	U	3.0
50328	Benzo(a)Pyrene	U	3.0
193395	Indeno(1,2,3-cd)Pyrene	U	3.0
53703	Dibenzo(a,h)Anthracene	U	3.0
191242	Benzo(g,h,i)Perylene	U J	3.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	66 %	35-114	OK
2-Fluorobiphenyl	94 %	43-116	OK
Terphenyl-d14	181 %	33-141	OUT
Phenol-d5	67 %	10- 94	OK
2-Fluorophenol	84 %	21-100	OK
2,4,6-Tribromophenol	36 %	10-123	OK

PPM

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: MARIE Quant Rev: 7 Quant Time: 941227 15:29
Output File: ^B7877::QT Injected at: 941224 07:12
Data File: >B7877::G2 Dilution Factor: 1.00000
Name: 9417663 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-05 BTL#27

ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

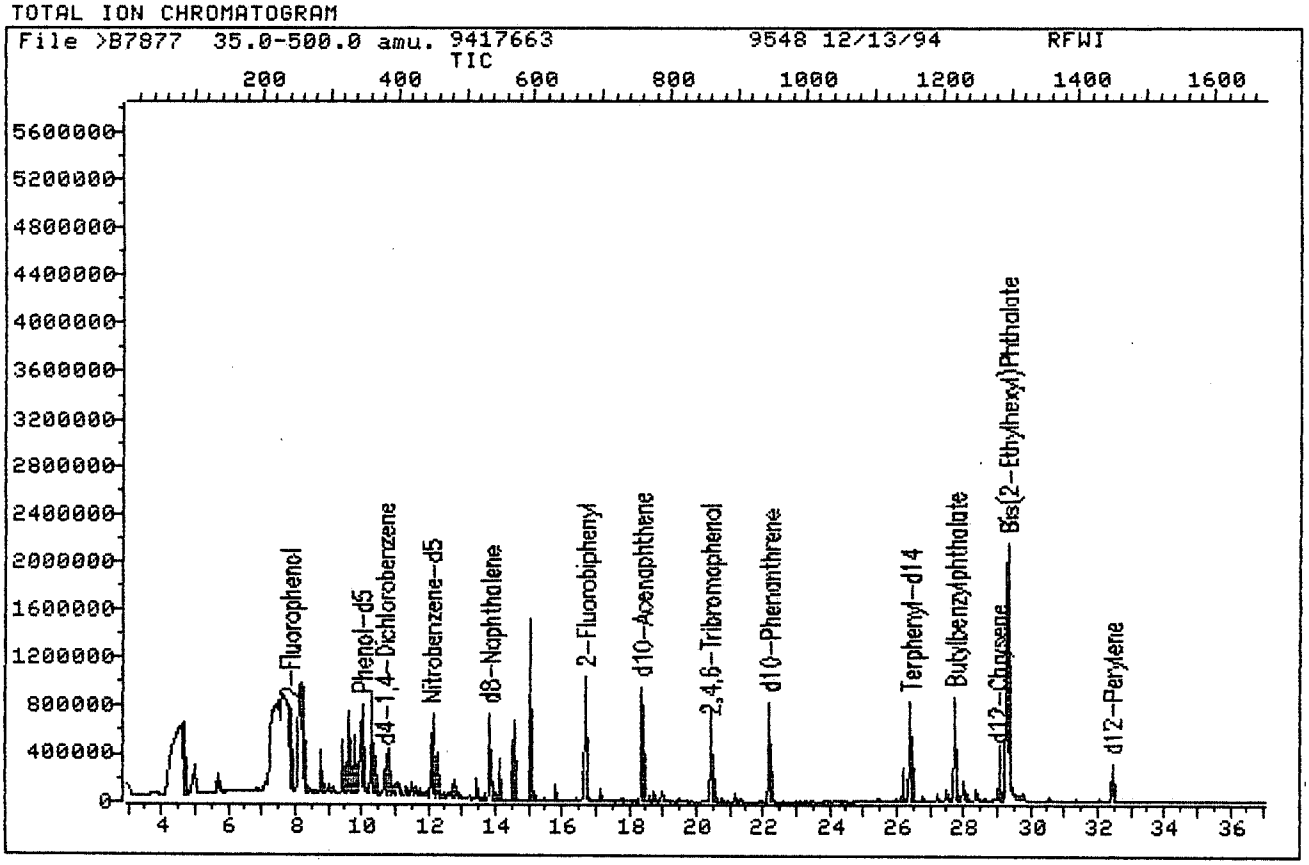
	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.68	379	135619	40.00	ug/l	98
4)	2-Fluorophenol	7.83	239	39307	8.39	ug/l	100
6)	Phenol-d5	10.00	346	785018	126.47	ug/l	87
19)	*d8-Naphthalene	13.83	534	719365	40.00	ug/l	86
20)	Nitrobenzene-d5	12.08	448	606914	60.37	ug/l	93
34)	*d10-Acenaphthene	18.35	756	650085	40.00	ug/l	98
39)	2-Fluorobiphenyl	16.68	674	965892	37.93	ug/l	77
54)	2,4,6-Tribromophenol	20.41	857	281620	112.34	ug/l	99
55)	*d10-Phenanthrene	22.20	945	891762	40.00	ug/l	100
67)	*d12-Chrysene	29.02	1280	442445	40.00	ug/l	100
70)	Terphenyl-d14	26.41	1152	919626	46.25	ug/l	95
71)	Butylbenzylphthalate	27.73	1217	563981	46.74	ug/l	95
74)	Bis(2-Ethylhexyl)Phthalate	29.30	1294	1878006M	133.08	ug/l	89
76)	*d12-Perylene	32.42	1447	341848	40.00	ug/l	100

* Compound is ISTD

ok

406

TOTAL ION CHROMATOGRAM



Data File: >B7877::G2 Quant Output File: ^B7877::QT
Name: 9417663 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-05 BTL#27

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:29
Injected at: 941224 07:12

407

QUANT REPORT

Operator ID: PAUL Quant Rev: 7 Quant Time: 941229 15:03
Output File: ^B7934::QT Injected at: 941228 18:13
Data File: >B7934::G1 Dilution Factor: 1.00000
Name: 9417663 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-05 BTL#10

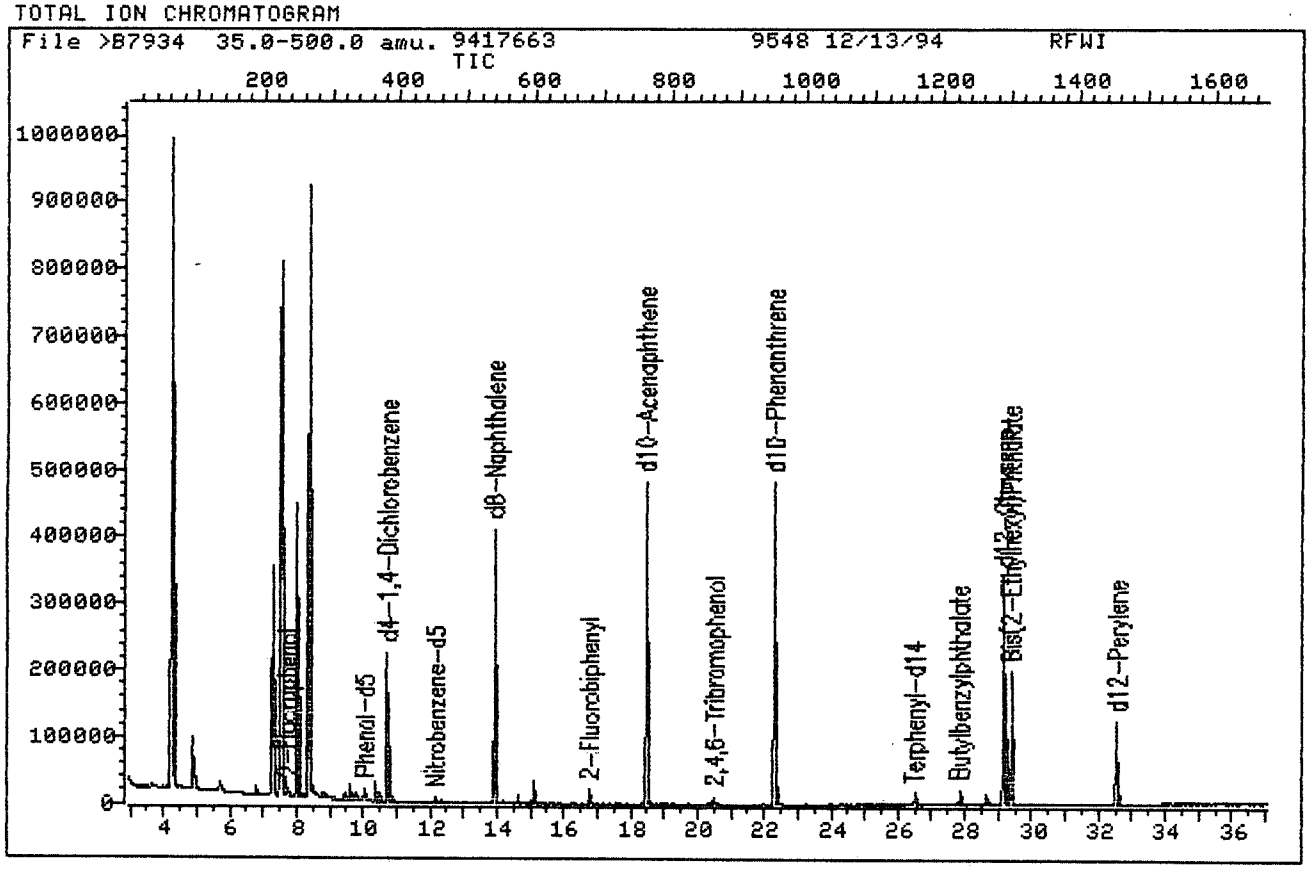
ID File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.71	381	90478	40.00	ug/l	97
4)	2-Fluorophenol	7.70	233	12943	5.15	ug/l	100
6)	Phenol-d5	10.02	347	15644	4.44	ug/l	76
19)	*d8-Naphthalene	13.90	538	380119	40.00	ug/l	98
20)	Nitrobenzene-d5	12.13	451	7446	2.19	ug/l	82
34)	*d10-Acenaphthene	18.44	761	230874	40.00	ug/l	98
39)	2-Fluorobiphenyl	16.75	678	15361	3.44	ug/l	95
54)	2,4,6-Tribromophenol	20.49	862	2385	2.68	ug/l	95
55)	*d10-Phenanthrene	22.28	950	448915	40.00	ug/l	100
67)	*d12-Chrysene	29.13	1287	290227	40.00	ug/l	100
70)	Terphenyl-d14	26.47	1156	21067	3.14	ug/l	94
71)	Butylbenzylphthalate	27.81	1222	13271	2.26	ug/l	90
74)	Bis(2-Ethylhexyl)Phthalate	29.34	1297	101297	12.97	ug/l	94
76)	*d12-Perylene	32.53	1454	120039	40.00	ug/l	100

* Compound is ISTD

408

TOTAL ION CHROMATOGRAM



Data File: >B7934::G1 Quant Output File: ^B7934::QT
Name: 9417663 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-05 BTL#10

Id File: IDB59::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941229 13:54 Last Qcal Time: 941228 09:29

Operator ID: PAUL
Quant Time : 941229 15:03
Injected at: 941228 18:13

409

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417664	DILUTION FACTOR	100
DATA FILE	>B7878	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DL-06	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/Kg	MDL
108952	Phenol	U	1000
95578	2-Chlorophenol	U	1000
95487	2-Methylphenol	U	1000
108394	3&4-Methylphenol	U	1000
88755	2-Nitrophenol	U	1000
105679	2,4-Dimethylphenol	U	1000
120832	2,4-Dichlorophenol	U	1000
111444	bis(-2-Chloroethyl)Ether	U J	1000
541731	1,3-Dichlorobenzene	U	1000
106467	1,4-Dichlorobenzene	U	1000
100516	Benzyl Alcohol	U	1000
95501	1,2-Dichlorobenzene	U	1000
108601	bis(2-Chloroisopropyl)ether	U	1000
621647	N-Nitroso-Di-n-propylamine	U J	1000
67721	Hexachloroethane	U	1000
98953	Nitrobenzene	U	1000
78591	Isophorone	U	1000
65850	Benzoic Acid	~~U~~ R	5000
111911	bis(-2-Chloroethoxy)Methane	U	1000
120821	1,2,4-Trichlorobenzene	U	1000
91203	Naphthalene	U	1000
106478	4-Chloroaniline	U	1000
87683	Hexachlorobutadiene	U	1000
91576	2-Methylnaphthalene	U	1000
77474	Hexachlorocyclopentadiene	U	1000
91587	2-Chloronaphthalene	U	1000
88744	2-Nitroaniline	U	5000
131113	Dimethyl Phthalate	U	1000
208968	Acenaphthylene	U	1000
99092	3-Nitroaniline	U	5000
83329	Acenaphthene	U	1000
132649	Dibenzofuran	U	1000
606202	2,6-Dinitrotoluene	U	1000

CAS #	COMPOUND	UG/Kg	MDL
59507	4-Chloro-3-methylphenol	U	1000
88062	2,4,6-Trichlorophenol	U	1000
95954	2,4,5-Trichlorophenol	U	5000
51285	2,4-Dinitrophenol	U	5000
100027	4-Nitrophenol	U	5000
534521	4,6-Dinitro-2-methylphenol	U	5000
87865	Pentachlorophenol	U	5000
121142	2,4-Dinitrotoluene	U	1000
84662	Diethylphthalate	U	1000
7005723	4-Chlorophenyl-phenylether	U	1000
86737	Fluorene	U	1000
100016	4-Nitroaniline	U	5000
86306	N-Nitrosodiphenylamine	U	1000
101553	4-Bromophenyl-phenylether	U	1000
118741	Hexachlorobenzene	U	1000
85018	Phenanthrene	U	1000
120127	Anthracene	U	1000
84742	Di-n-Butylphthalate	U	1000
206440	Fluoranthene	U	1000
129000	Pyrene	U J	1000
85687	Butylbenzylphthalate	U	1000
91941	3,3'-Dichlorobenzidine	U	2000
56553	Benzo(a)Anthracene	U	1000
117817	Bis(2-Ethylhexyl)Phthalate	U	1000
218019	Chrysene	U	1000
117840	Di-n-octyl phthalate	U	1000
205992	Benzo(b)fluoranthene	U	1000
207089	Benzo(k)Fluoranthene	U	1000
50328	Benzo(a)Pyrene	U	1000
193395	Indeno(1,2,3-cd)Pyrene	U	1000
53703	Dibenzo(a,h)Anthracene	U	1000
191242	Benzo(g,h,i)Perylene	U J	1000

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	83 %	35-114	OK
2-Fluorobiphenyl	106 %	43-116	OK
Terphenyl-d14	128 %	33-141	OK
Phenol-d5	103 %	10- 94	OUT
2-Fluorophenol	41 %	21-100	OK
2,4,6-Tribromophenol	44 %	10-123	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: MARIE
Output File: ^B7878::QT
Data File: >B7878::G2
Name: 9417664
Misc: 9548 12/13/94 RFWI

Quant Rev: 7
Quant Time: 941227 15:32
Injected at: 941224 07:59
Dilution Factor: 1.00000
Instrument ID: HP5970BB
BB-DL-06 BTL#28

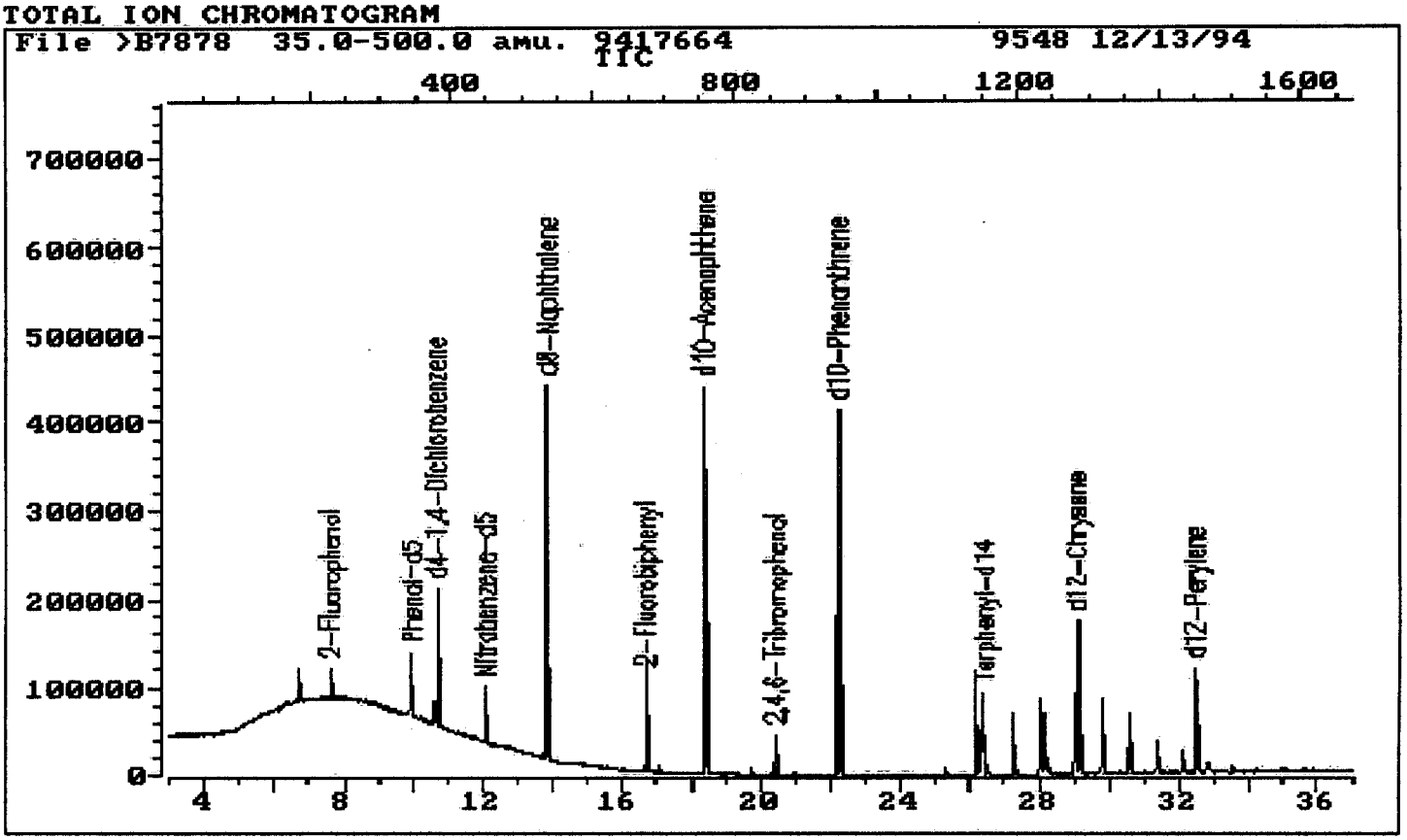
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13
Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.63	377	56897	40.00	ug/l	98
4)	2-Fluorophenol	7.58	227	16035	8.16	ug/l	100
6)	Phenol-d5	9.92	342	53638	20.60	ug/l	82
19)	*d8-Naphthalene	13.82	534	378432	40.00	ug/l	98
20)	Nitrobenzene-d5	12.03	446	44024	8.32	ug/l	88
34)	*d10-Acenaphthene	18.33	756	243473	40.00	ug/l	96
39)	2-Fluorobiphenyl	16.65	673	101133	10.61	ug/l	94
54)	2,4,6-Tribromophenol	20.39	857	8294	8.83	ug/l	84
55)	*d10-Phenanthrene	22.18	945	371058	40.00	ug/l	100
67)	*d12-Chrysene	29.01	1281	120733	40.00	ug/l	100
70)	Terphenyl-d14	26.37	1151	69585	12.83	ug/l	93
76)	*d12-Perylene	32.41	1448	125628	40.00	ug/l	100

* Compound is ISTD

410

TOTAL ION CHROMATOGRAM



Data File: >B7878::G2 Quant Output File: ^B7878::QT
Name: 9417664 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-06 BTL#28

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:32
Injected at: 941224 07:59

411

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417666	DILUTION FACTOR	100
DATA FILE	>B7880	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DL-07	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/Kg	MDL
108952	Phenol	U	1000
95578	2-Chlorophenol	U	1000
95487	2-Methylphenol	U	1000
108394	3&4-Methylphenol	U	1000
88755	2-Nitrophenol	U	1000
105679	2,4-Dimethylphenol	U	1000
120832	2,4-Dichlorophenol	U	1000
111444	bis(-2-Chloroethyl)Ether	UJ	1000
541731	1,3-Dichlorobenzene	U	1000
106467	1,4-Dichlorobenzene	U	1000
100516	Benzyl Alcohol	U	1000
95501	1,2-Dichlorobenzene	U	1000
108601	bis(2-Chloroisopropyl)ether	U	1000
621647	N-Nitroso-Di-n-propylamine	UJ	1000
67721	Hexachloroethane	U	1000
98953	Nitrobenzene	U	1000
78591	Isophorone	U	1000
65850	Benzoic Acid	UR	5000
111911	bis(-2-Chloroethoxy)Methane	U	1000
120821	1,2,4-Trichlorobenzene	U	1000
91203	Naphthalene	U	1000
106478	4-Chloroaniline	U	1000
87683	Hexachlorobutadiene	U	1000
91576	2-Methylnaphthalene	U	1000
77474	Hexachlorocyclopentadiene	U	1000
91587	2-Chloronaphthalene	U	1000
88744	2-Nitroaniline	U	5000
131113	Dimethyl Phthalate	U	1000
208968	Acenaphthylene	U	1000
99092	3-Nitroaniline	U	5000
83329	Acenaphthene	U	1000
132649	Dibenzofuran	U	1000
606202	2,6-Dinitrotoluene	U	1000

CAS #	COMPOUND	UG/Kg	MDL
59507	4-Chloro-3-methylphenol	U	1000
88062	2,4,6-Trichlorophenol	U	1000
95954	2,4,5-Trichlorophenol	U	5000
51285	2,4-Dinitrophenol	U	5000
100027	4-Nitrophenol	U	5000
534521	4,6-Dinitro-2-methylphenol	U	5000
87865	Pentachlorophenol	U	5000
121142	2,4-Dinitrotoluene	U	1000
84662	Diethylphthalate	U	1000
7005723	4-Chlorophenyl-phenylether	U	1000
86737	Fluorene	U	1000
100016	4-Nitroaniline	U	5000
86306	N-Nitrosodiphenylamine	U	1000
101553	4-Bromophenyl-phenylether	U	1000
118741	Hexachlorobenzene	U	1000
85018	Phenanthrene	U	1000
120127	Anthracene	U	1000
84742	Di-n-Butylphthalate	U	1000
206440	Fluoranthene	U	1000
129000	Pyrene	UJ	1000
85687	Butylbenzylphthalate	U	1000
91941	3,3'-Dichlorobenzidine	U	2000
56553	Benzo(a)Anthracene	U	1000
117817	Bis(2-Ethylhexyl)Phthalate	U	1000
218019	Chrysene	U	1000
117840	Di-n-octyl phthalate	U	1000
205992	Benzo(b)fluoranthene	U	1000
207089	Benzo(k)Fluoranthene	U	1000
50328	Benzo(a)Pyrene	U	1000
193395	Indeno(1,2,3-cd)Pyrene	U	1000
53703	Dibenzo(a,h)Anthracene	U	1000
191242	Benzo(g,h,i)Perylene	UJ	1000

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	88 %	35-114	OK
2-Fluorobiphenyl	103 %	43-116	OK
Terphenyl-d14	101 %	33-141	OK
Phenol-d5	95 %	10- 94	OUT
2-Fluorophenol	36 %	21-100	OK
2,4,6-Tribromophenol	40 %	10-123	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

Operator ID: MARIE Quant Rev: 7 Quant Time: 941227 15:35
Output File: ^B7880::QT Injected at: 941224 09:34
Data File: >B7880::G2 Dilution Factor: 1.00000
Name: 9417666 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-07 BTL#30

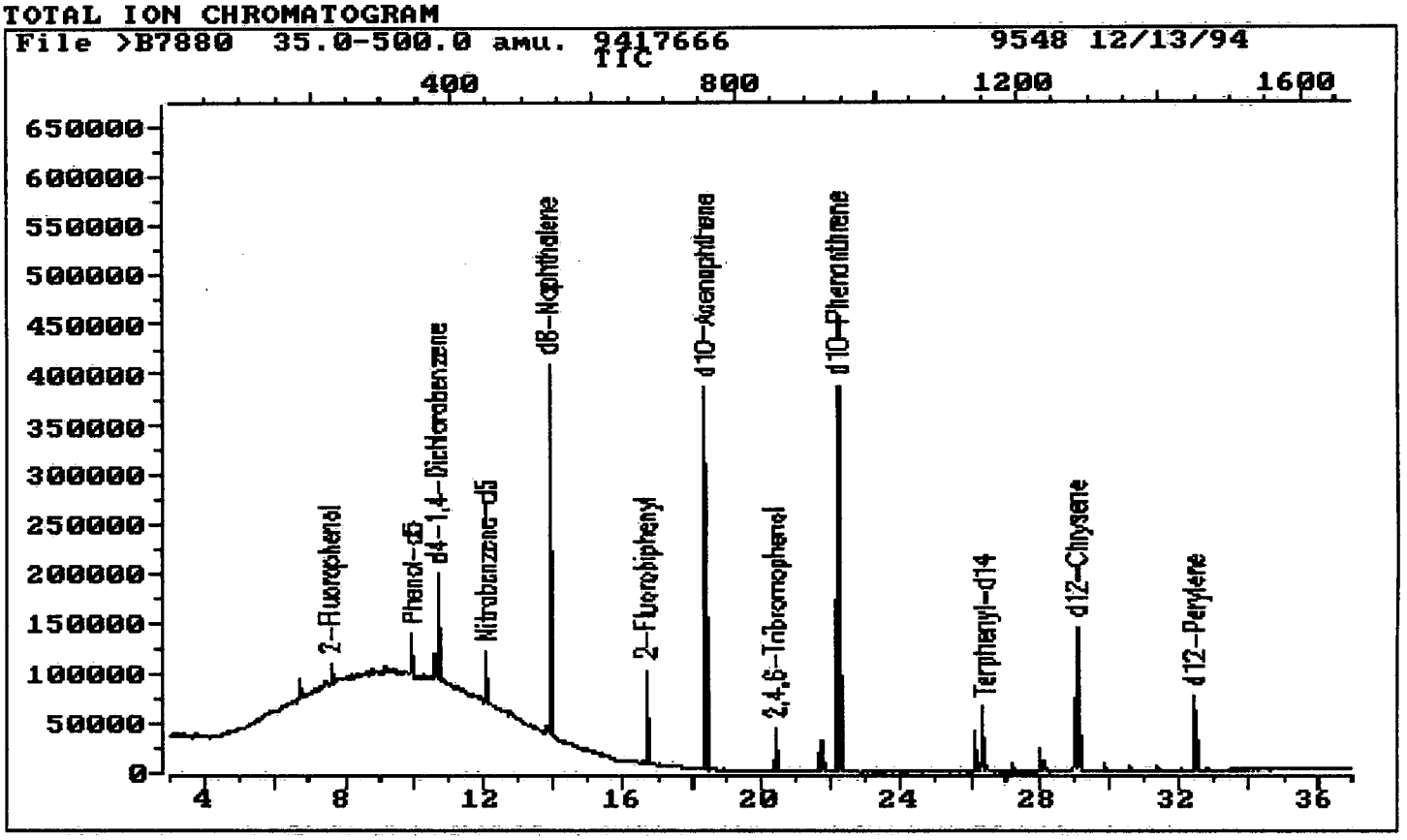
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.63	377	35817	40.00	ug/l	99
4)	2-Fluorophenol	7.56	226	8973	7.25	ug/l	100
6)	Phenol-d5	9.92	342	31170	19.01	ug/l	93
19)	*d8-Naphthalene	13.82	534	288779	40.00	ug/l	99
20)	Nitrobenzene-d5	12.03	446	35638M	8.83	ug/l	
34)	*d10-Acenaphthene	18.34	756	167271M	40.00	ug/l	
39)	2-Fluorobiphenyl	16.65	673	67327	10.28	ug/l	94
54)	2,4,6-Tribromophenol	20.39	857	5216	8.09	ug/l	99
55)	*d10-Phenanthrene	22.18	945	301750	40.00	ug/l	100
67)	*d12-Chrysene	29.01	1281	91871	40.00	ug/l	100
70)	Terphenyl-d14	26.37	1151	41714	10.10	ug/l	78
76)	*d12-Perylene	32.41	1448	70504	40.00	ug/l	100

* Compound is ISTD

414

TOTAL ION CHROMATOGRAM



Data File: >B7880::G2 Quant Output File: ^B7880::QT
Name: 9417666 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-07 BTL#30

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:35
Injected at: 941224 09:34

4/13

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417665	DILUTION FACTOR	100
DATA FILE	>B7879	DATE EXTRACTED	12/13/94
CLIENT NAME	RFWI	DATE ANALYZED	12/24/94
FIELD ID	BB-DL-08	ANALYZED BY	MARIE

CAS #	COMPOUND	UG/L	MDL
108952	Phenol	U	1000
95578	2-Chlorophenol	U	1000
95487	2-Methylphenol	U	1000
108394	3&4-Methylphenol	U	1000
88755	2-Nitrophenol	U	1000
105679	2,4-Dimethylphenol	U	1000
120832	2,4-Dichlorophenol	U	1000
111444	bis(-2-Chloroethyl)Ether	UJ	1000
541731	1,3-Dichlorobenzene	U	1000
106467	1,4-Dichlorobenzene	U	1000
100516	Benzyl Alcohol	U	1000
95501	1,2-Dichlorobenzene	U	1000
108601	bis(2-Chloroisopropyl)ether	U	1000
621647	N-Nitroso-Di-n-propylamine	UJ	1000
67721	Hexachloroethane	U	1000
98953	Nitrobenzene	U	1000
78591	Isophorone	U	1000
65850	Benzoic Acid	UR	5000
111911	bis(-2-Chloroethoxy)Methane	U	1000
120821	1,2,4-Trichlorobenzene	U	1000
91203	Naphthalene	U	1000
106478	4-Chloroaniline	U	1000
87683	Hexachlorobutadiene	U	1000
91576	2-Methylnaphthalene	U	1000
77474	Hexachlorocyclopentadiene	U	1000
91587	2-Chloronaphthalene	U	1000
88744	2-Nitroaniline	U	5000
131113	Dimethyl Phthalate	U	1000
208968	Acenaphthylene	U	1000
99092	3-Nitroaniline	U	5000
83329	Acenaphthene	U	1000
132649	Dibenzofuran	U	1000
606202	2,6-Dinitrotoluene	U	1000

CAS #	COMPOUND	UG/L	MDL
59507	4-Chloro-3-methylphenol	U	1000
88062	2,4,6-Trichlorophenol	U	1000
95954	2,4,5-Trichlorophenol	U	5000
51285	2,4-Dinitrophenol	U	5000
100027	4-Nitrophenol	U	5000
534521	4,6-Dinitro-2-methylphenol	U	5000
87865	Pentachlorophenol	U	5000
121142	2,4-Dinitrotoluene	U	1000
84662	Diethylphthalate	U	1000
7005723	4-Chlorophenyl-phenylether	U	1000
86737	Fluorene	U	1000
100016	4-Nitroaniline	U	5000
86306	N-Nitrosodiphenylamine	U	1000
101553	4-Bromophenyl-phenylether	U	1000
118741	Hexachlorobenzene	U	1000
85018	Phenanthrene	U	1000
120127	Anthracene	U	1000
84742	Di-n-Butylphthalate	U	1000
206440	Fluoranthene	U	1000
129000	Pyrene	UJ	1000
85687	Butylbenzylphthalate	U	1000
91941	3,3'-Dichlorobenzidine	U	2000
56553	Benzo(a)Anthracene	U	1000
117817	Bis(2-Ethylhexyl)Phthalate	U	1000
218019	Chrysene	U	1000
117840	Di-n-octyl phthalate	U	1000
205992	Benzo(b)fluoranthene	U	1000
207089	Benzo(k)Fluoranthene	U	1000
50328	Benzo(a)Pyrene	U	1000
193395	Indeno(1,2,3-cd)Pyrene	U	1000
53703	Dibenzo(a,h)Anthracene	U	1000
191242	Benzo(g,h,i)Perylene	UJ	1000

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	77 %	35-114	OK
2-Fluorobiphenyl	112 %	43-116	OK
Terphenyl-d14	108 %	33-141	OK
Phenol-d5	96 %	10- 94	OUT
2-Fluorophenol	31 %	21-100	OK
2,4,6-Tribromophenol	38 %	10-123	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: MARIE
Output File: ^B7879::QT
Data File: >B7879::G2
Name: 9417665
Misc: 9548 12/13/94 RFWI

Quant Rev: 7
Quant Time: 941227 15:33
Injected at: 941224 08:46
Dilution Factor: 1.00000
Instrument ID: HP5970BB
BB-DL-08 BTL#29

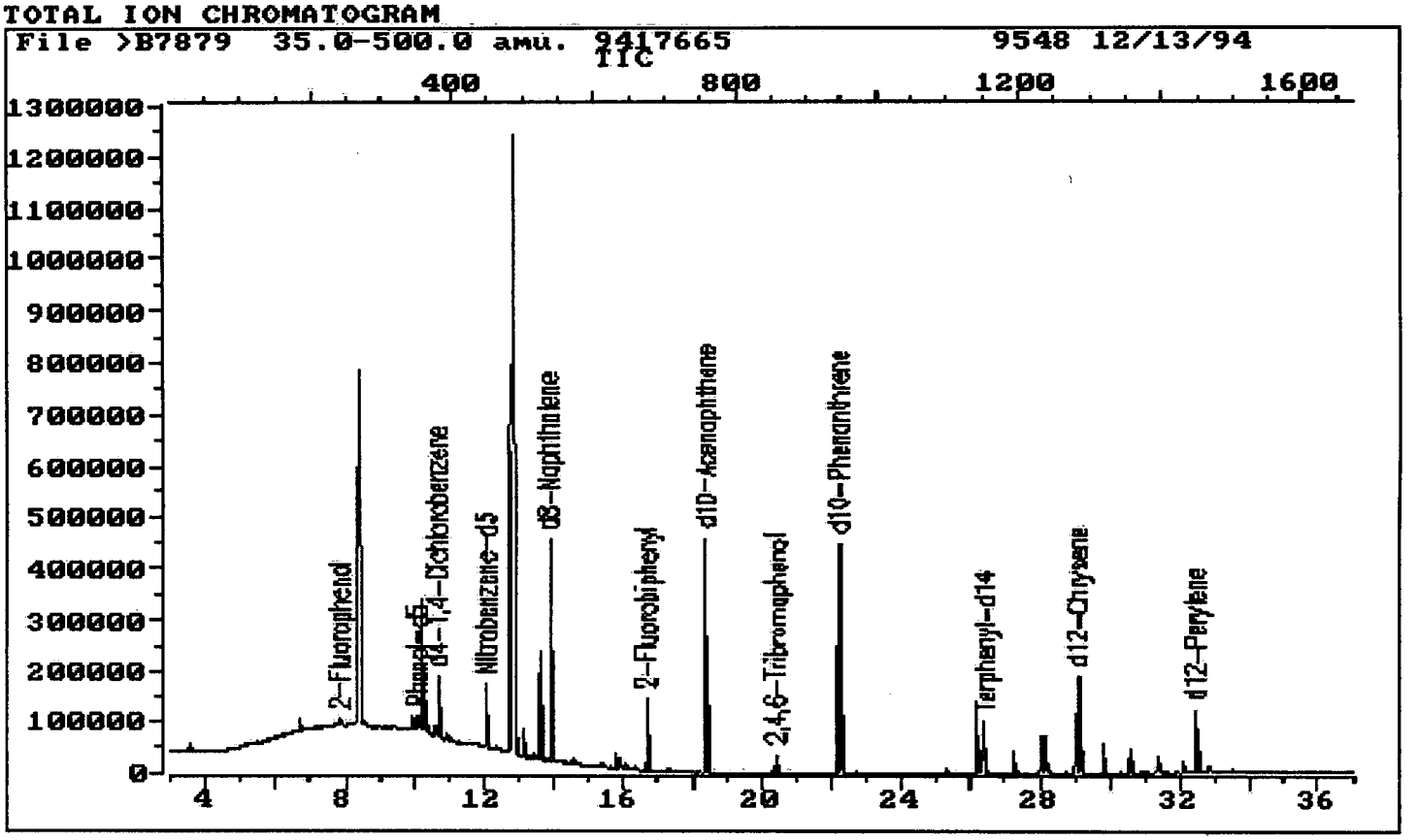
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13
Last Qcal Time: 941223 23:19

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.63	377	45921	40.00	ug/l	98
4)	2-Fluorophenol	7.80	238	9742	6.14	ug/l	100
6)	Phenol-d5	10.06	349	40229	19.14	ug/l	82
19)	*d8-Naphthalene	13.82	534	367851	40.00	ug/l	99
20)	Nitrobenzene-d5	12.03	446	39515	7.69	ug/l	84
34)	*d10-Acenaphthene	18.34	756	220355	40.00	ug/l	97
39)	2-Fluorobiphenyl	16.65	673	96582	11.19	ug/l	92
54)	2,4,6-Tribromophenol	20.39	857	6435	7.57	ug/l	91
55)	*d10-Phenanthrene	22.18	945	392256	40.00	ug/l	100
67)	*d12-Chrysene	29.02	1281	133990	40.00	ug/l	100
70)	Terphenyl-d14	26.37	1151	65105	10.81	ug/l	84
76)	*d12-Perylene	32.41	1448	124783	40.00	ug/l	100

* Compound is ISTD

4/2

TOTAL ION CHROMATOGRAM



Data File: >B7879::G2 Quant Output File: ^B7879::QT
Name: 9417665 Instrument ID: HP5970BB
Misc: 9548 12/13/94 RFWI BB-DL-08 BTL#29

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941223 23:19

Operator ID: MARIE
Quant Time : 941227 15:33
Injected at: 941224 08:46

413

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER	9548	MATRIX	Aqueous
SAMPLE NUMBER	9417667	DILUTION FACTOR	1
DATA FILE	>B7563	DATE EXTRACTED	12/06/94
CLIENT NAME	RFWI	DATE ANALYZED	12/09/94
FIELD ID	BB-RB-01	ANALYZED BY	PAUL

CAS #	COMPOUND	UG/L	MDL
108952	Phenol	U	10
95578	2-Chlorophenol	U	10
95487	2-Methylphenol	U	10
108394	3&4-Methylphenol	U	10
88755	2-Nitrophenol	U	10
105679	2,4-Dimethylphenol	U	10
120832	2,4-Dichlorophenol	U	10
111444	bis(-2-Chloroethyl)Ether	U	10
541731	1,3-Dichlorobenzene	U	10
106467	1,4-Dichlorobenzene	U	10
100516	Benzyl Alcohol	U	10
95501	1,2-Dichlorobenzene	U	10
108601	bis(2-Chloroisopropyl)ether	UJ	10
621647	N-Nitroso-Di-n-propylamine	U	10
67721	Hexachloroethane	U	10
98953	Nitrobenzene	U	10
78591	Isophorone	U	10
65850	Benzoic Acid	U	50
111911	bis(-2-Chloroethoxy)Methane	U	10
120821	1,2,4-Trichlorobenzene	U	10
91203	Naphthalene	U	10
106478	4-Chloroaniline	U	10
87683	Hexachlorobutadiene	U	10
91576	2-Methylnaphthalene	U	10
77474	Hexachlorocyclopentadiene	UJ	10
91587	2-Chloronaphthalene	U	10
88744	2-Nitroaniline	U	50
131113	Dimethyl Phthalate	U	10
208968	Acenaphthylene	U	10
99092	3-Nitroaniline	U	50
83329	Acenaphthene	U	10
132649	Dibenzofuran	U	10
606202	2,6-Dinitrotoluene	U	10

CAS #	COMPOUND	UG/L	MDL
59507	4-Chloro-3-methylphenol	U	10
88062	2,4,6-Trichlorophenol	U	10
95954	2,4,5-Trichlorophenol	U	50
51285	2,4-Dinitrophenol	U	50
100027	4-Nitrophenol	U	50
534521	4,6-Dinitro-2-methylphenol	U	50
87865	Pentachlorophenol	U	50
121142	2,4-Dinitrotoluene	U	10
84662	Diethylphthalate	U	10
7005723	4-Chlorophenyl-phenylether	U	10
86737	Fluorene	U	10
100016	4-Nitroaniline	U	50
86306	N-Nitrosodiphenylamine	U	10
101553	4-Bromophenyl-phenylether	U	10
118741	Hexachlorobenzene	U	10
85018	Phenanthrene	U	10
120127	Anthracene	U	10
84742	Di-n-Butylphthalate	U	10
206440	Fluoranthene	U	10
129000	Pyrene	UJ	10
85687	Butylbenzylphthalate	U	10
91941	3,3'-Dichlorobenzidine	U	20
56553	Benzo(a)Anthracene	U	10
117817	Bis(2-Ethylhexyl)Phthalate	U	10
218019	Chrysene	U	10
117840	Di-n-octyl phthalate	U	10
205992	Benzo(b)fluoranthene	U	10
207089	Benzo(k)Fluoranthene	U	10
50328	Benzo(a)Pyrene	U	10
193395	Indeno(1,2,3-cd)Pyrene	UJ	10
53703	Dibenzo(a,h)Anthracene	UJ	10
191242	Benzo(g,h,i)Perylene	UJ	10

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	59 %	35-114	OK
2-Fluorobiphenyl	78 %	43-116	OK
Terphenyl-d14	50 %	33-141	OK
Phenol-d5	27 %	10- 94	OK
2-Fluorophenol	34 %	21-100	OK
2,4,6-Tribromophenol	41 %	10-123	OK

RB
None

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

Operator ID: PAUL
Output File: ^B7563::ME
Data File: >B7563::G1
Name: 9417667
Misc: 9548 12/06/94 RFWI

Quant Rev: 7
Quant Time: 941209 20:27
Injected at: 941209 19:49
Dilution Factor: 1.00000
Instrument ID: HP5970BB
BB-RB-01 BTL# 6

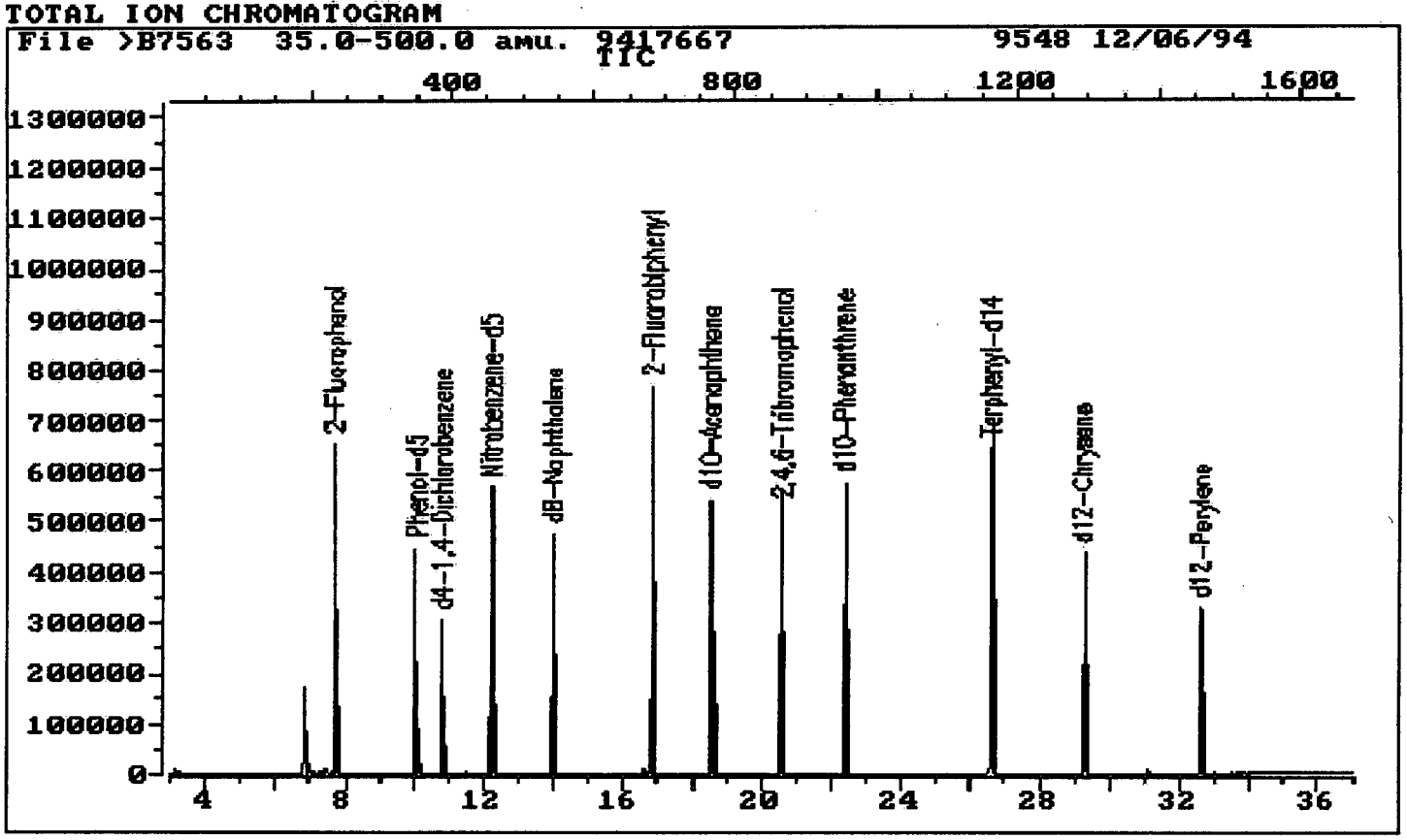
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13
Last Qcal Time: 941209 14:03

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.77	384	116158	40.00	ug/l	97
4)	2-Fluorophenol	7.68	232	352481	68.90	ug/l	100
6)	Phenol-d5	10.04	348	373196	54.15	ug/l	80
19)	*d8-Naphthalene	13.96	541	505623	40.00	ug/l	97
20)	Nitrobenzene-d5	12.19	454	455304	58.90	ug/l	95
34)	*d10-Acenaphthene	18.50	764	323689	40.00	ug/l	96
39)	2-Fluorobiphenyl	16.83	682	689714	78.48	ug/l	95
54)	2,4,6-Tribromophenol	20.55	865	242728	82.15	ug/l	96
55)	*d10-Phenanthrene	22.34	953	643896	40.00	ug/l	100
67)	*d12-Chrysene	29.17	1289	484770	40.00	ug/l	100
70)	Terphenyl-d14	26.55	1160	1012962	49.85	ug/l	90
76)	*d12-Perylene	32.57	1456	422077	40.00	ug/l	100

* Compound is ISTD

416

TOTAL ION CHROMATOGRAM



Data File: >B7563 Quant Output File: ^B7563::ME
Name: 9417667 Instrument ID: HP5970BB
Misc: 9548 12/06/94 RFWI BB-RB-01 BTL# 6

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941209 14:03

Operator ID: PAUL
Quant Time : 941209 20:27
Injected at: 941209 19:49

417

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5890BB

Contractor: Accredited Labs Calibration Date: 12/02/94

Contract No:

IC-1
0118
011 12/2

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>B7411	>B7409	>B7413	>B7412	>B7410					
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Pyridine	1.32899	1.54793	1.57574	1.59409	1.67031	.410	1.54341	8.305		
N-Nitrosodimethylamine	.45350	.57564	.58392	.59922	.61560	.407	.56558	11.401		
2-Fluorophenol	.95862	1.13887	1.10104	1.17423	1.25775	.717	1.12610	9.777		
Aniline	2.14129	2.11809	1.43145	2.31637	2.35373	.932	2.07219	17.997		
Phenol-d5	1.42294	1.46898	1.48322	1.59222	1.61706	.932	1.51689	5.512		
Phenol	1.69889	1.76254	1.83375	1.91520	2.17952	.936	1.87798	9.950	*	
bis(-2-Chloroethyl)Ether	1.99438	1.96889	2.27825	2.38683	2.30153	1.250	2.18598	8.741		
2-Chlorophenol	1.27386	1.32406	1.29034	1.30805	1.40107	.954	1.31948	3.740		
1,3-Dichlorobenzene	1.85397	1.88191	1.72015	1.74725	1.71169	.986	1.78300	4.446		
1,4-Dichlorobenzene	1.98914	1.89836	1.80476	1.82739	1.79902	1.004	1.86373	4.319	*	
Benzyl Alcohol	.74878	.75491	.87306	.89926	.97492	1.040	.85019	11.442		
1,2-Dichlorobenzene	1.80157	1.76928	1.61919	1.60691	1.58347	1.036	1.67608	6.043		
2-Methylphenol	1.16946	1.25535	1.28147	1.30890	1.33758	1.070	1.27055	5.060		
bis(2-Chloroisopropyl)ether	1.77092	1.52435	2.00672	1.96635	1.78754	1.077	1.81117	10.576		
3&4-Methylphenol	1.23336	1.28914	1.35439	1.35286	1.41576	1.107	1.32910	5.250		
N-Nitroso-Di-n-propylamine	1.09165	1.10578	1.30039	1.38459	1.31899	1.103	1.24028	10.728		**
Hexachloroethane	.63202	.68247	.63878	.63614	.63135	1.113	.64415	3.359		
Nitrobenzene-d5	.34198	.38036	.37450	.37371	.36773	.873	.36765	4.090		
Nitrobenzene	.48550	.51125	.51583	.50420	.52051	.877	.50746	2.694		
Isophorone	1.13929	1.21050	1.28623	1.33467	1.27800	.923	1.24974	6.078		
2-Nitrophenol	.17130	.19572	.20224	.20489	.20121	.934	.19507	7.025	*	
2,4-Dimethylphenol	.26142	.27137	.27868	.27840	.27390	.950	.27275	2.583		
Benzoic Acid	.01667	.02417	.07597	.10144	.08169	.970	.05999	62.393		
bis(-2-Chloroethoxy)Methane	.45931	.45950	.49493	.48684	.46886	.966	.47389	3.428		
2,4-Dichlorophenol	.25950	.27889	.28088	.28723	.27703	.980	.27671	3.744	*	
1,2,4-Trichlorobenzene	.39802	.39030	.36783	.35889	.33644	.991	.37030	6.685		
Naphthalene	.93973	.94555	.87493	.87861	.79419	1.004	.88660	6.915		
4-Chloroaniline	.41210	.45081	.43022	.43356	.39414	1.020	.42417	5.113		
Hexachlorobutadiene	.17796	.17493	.15965	.14847	.13527	1.029	.15926	11.263	*	
4-Chloro-3-methylphenol	.33523	.37467	.36308	.41413	.36166	1.114	.36975	7.763	*	

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

189

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5890BB

Contractor: Accredited Labs Calibration Date: 12/02/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>B7411	>B7409	>B7413	>B7412	>B7410					
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
2-Methylnaphthalene	.63806	.65666	.62940	.65611	.60028	1.132	.63610	3.649		
Hexachlorocyclopentadiene	.02397	.17827	.11514	.14482	.18737	.877	.12991	50.630		**
2,4,6-Trichlorophenol	.31633	.33211	.35553	.33821	.35662	.897	.33976	4.975	*	
2,4,5-Trichlorophenol	.32332	.34269	.38163	.38543	.37339	.903	.36129	7.492		
2-Chloronaphthalene	1.32281	1.32154	1.29751	1.29948	1.25214	.923	1.29870	2.202		
2-Fluorobiphenyl	1.11153	1.10674	1.08095	1.03043	1.10077	.909	1.08608	3.059		
2-Nitroaniline	.36769	.41184	.48996	.51517	.50304	.941	.45754	14.081		
Dimethyl Phthalate	1.50352	1.57536	1.55769	1.60161	1.59304	.970	1.56624	2.485		
Acenaphthylene	1.67866	1.73360	1.69804	1.64563	1.55429	.980	1.66204	4.100		
3-Nitroaniline	.36618	.45372	.41794	.45026	.43078	.999	.42378	8.342		
Acenaphthene	1.06244	1.04736	1.05295	1.00608	1.02985	1.005	1.03974	2.139	*	
2,4-Dinitrophenol	.16299	.15515	.16143	.14085	.15285	.749	.15465	5.687		**
4-Nitrophenol	.09228	.15647	.15640	.16927	.15997	1.029	.14688	21.087		**
Dibenzofuran	1.60000	1.59209	1.54439	1.47352	1.46105	1.029	1.53421	4.226		
2,6-Dinitrotoluene	.45296	.53341	.52217	.57508	.49982	.977	.51669	8.691		
2,4-Dinitrotoluene	.73043	.81227	.76553	.81521	.76090	1.033	.77687	4.670		
Diethylphthalate	1.55409	1.71068	1.55154	1.56323	1.48983	1.070	1.57387	5.199		
4-Chlorophenyl-phenylether	.57670	.59674	.59861	.57347	.54429	1.080	.57796	3.805		
Fluorene	1.33424	1.32406	1.20776	1.21745	1.15696	1.077	1.24809	6.215		
4-Nitroaniline	.41262	.46047	.44860	.47272	.41821	1.087	.44252	5.932		
2,4,6-Tribromophenol	.18444	.16550	.22820	.20750	.20294	1.111	.19772	12.039		
4,6-Dinitro-2-methylphenol	.14018	.14793	.15761	.15634	.17363	.748	.15514	8.058		
N-Nitrosodiphenylamine	.38560	.36128	.33151	.31555	.30927	.911	.34064	9.450	*	
Azobenzene	2.65362	2.26528	1.72579	1.48066	1.59938	.915	1.94495	25.551		
4-Bromophenyl-phenylether	.17613	.14809	.15684	.15729	.16051	.951	.15977	6.409		
Hexachlorobenzene	.26066	.19748	.24854	.21654	.23994	.956	.23263	10.932		
Pentachlorophenol	-	.07890	.11188	.10528	.11826	.979	.10358	16.689	*	
Phenanthrene	.98672	.96747	.81336	.81030	.83469	1.003	.88251	9.872		
Anthracene	1.02284	.95690	.89287	.83329	.82827	1.009	.90683	9.183		
1,2-Diphenylhydrazine	.07449	.06741	.06943	.05869	.07140	.621	.06828	8.739		

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

190

Initial Calibration Data
HSL Compounds

Case No:

Instrument ID: HP5890BB

Contractor: Accredited Labs

Calibration Date: 12/02/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>B7411	>B7409	>B7413	>B7412	>B7410					
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Di-n-Butylphthalate	.71027	.74323	.66729	.65133	.69588	.887	.69360	5.211		
Fluoranthene	1.09967	.97027	.81279	.79529	.72718	1.140	.88104	17.161	*	
Benzidine	.53548	.45760	.61684	.69475	.61728	.888	.58439	15.491		
Pyrene	1.85892	2.79655	3.67635	4.33263	4.50110	.894	3.43311	32.213		
Terphenyl-d14	1.32761	1.72775	2.27836	2.58138	2.63431	.910	2.10988	26.850		
Butylbenzylphthalate	.87681	1.00067	1.02394	1.08712	1.19938	.955	1.03758	11.407		
3,3'-Dichlorobenzidine	.21568	.19616	.22727	.31144	.30186	.998	.25048	20.989		
Benzo(a)Anthracene	1.08276	1.15902	1.11695	1.33878	1.42289	.999	1.22408	12.142		
Bis(2-Ethylhexyl)Phthalate	1.04201	1.04097	1.11364	1.15005	1.38784	1.007	1.14690	12.437		
Chrysene	.99895	.87000	.84155	.95871	.91519	1.002	.91688	6.975		
Di-n-octyl phthalate	3.68667	2.42913	3.20950	2.65562	3.55470	.951	3.10712	17.703	*	
Benzo(b)fluoranthene	1.49170	1.41153	1.38924	1.55588	1.55170	.975	1.48001	5.229		
Benzo(k)Fluoranthene	1.47636	1.05132	1.14325	.73543	1.04590	.976	1.09045	24.318		
Benzo(a)Pyrene	.82559	.93833	.93576	.92610	1.06266	.997	.93769	8.974	*	
Indeno(1,2,3-cd)Pyrene	.20433	.39437	.57271	.65985	.60620	1.072	.48749	38.365		
Dibenzo(a,h)Anthracene	.14747	.29562	.44311	.55603	.47079	1.074	.38260	42.219		
Benzo(g,h,i)Perylene	.14708	.31337	.47182	.55098	.52370	1.092	.40139	42.192		

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

191

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5890BF

Contractor: Accredited Labs Calibration Date: 12/16/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

IC-2
on F
[illegible]

Laboratory ID:	>F9253	>F9251	>F9255	>F9254	>F9252					
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Pyridine	1.37433	1.62556	1.81300	1.84770	1.91994	.457	1.71611	12.809		
N-Nitrosodimethylamine	1.33059	1.35682	1.39304	1.51541	1.52683	.462	1.42454	6.388		
2-Fluorophenol	1.16143	1.18559	1.29839	1.34914	1.47077	.751	1.29307	9.754		
Aniline	2.07040	1.93964	2.09641	2.10611	2.23317	.943	2.08914	5.008		
Phenol-d5	1.30387	1.27776	1.32476	1.36998	1.46170	.943	1.34761	5.355		
Phenol	1.70900	1.64673	1.61755	1.81361	1.85610	.946	1.72860	5.991	*	
bis(-2-Chloroethyl)Ether	1.78480	1.58276	1.70775	1.71831	1.76688	1.227	1.71210	4.624		
2-Chlorophenol	1.33229	1.25673	1.17520	1.24025	1.34579	.966	1.27005	5.522		
1,3-Dichlorobenzene	2.13189	1.92676	1.74227	1.91140	1.92082	.992	1.92663	7.173		
1,4-Dichlorobenzene	1.98042	1.89217	1.59615	1.82153	1.96389	1.003	1.85083	8.414	*	
Benzyl Alcohol	.79903	.78000	.65845	.78416	.78081	1.039	.76049	7.568		
1,2-Dichlorobenzene	1.91062	1.63979	1.24127	1.49729	1.58754	1.043	1.57530	15.367		
2-Methylphenol	1.12603	1.09458	1.06565	1.12449	1.16369	1.066	1.11489	3.306		
bis(2-Chloroisopropyl)ether	1.85570	1.68691	1.69582	1.74674	1.79289	1.067	1.75562	4.006		
3&4-Methylphenol	1.20896	1.15544	1.14733	1.18092	1.24245	1.098	1.18702	3.307		
N-Nitroso-Di-n-propylamine	1.34496	1.23206	.73517	1.24858	1.22951	1.101	1.15805	20.820		**
Hexachloroethane	.39531	.27937	.29190	.47800	.42189	1.106	.37329	22.911		
Nitrobenzene-d5	.48026	.48375	.48496	.52911	.58119	.883	.51185	8.525		
Nitrobenzene	.68488	.62438	.62855	.66413	.73519	.887	.66742	6.814		
Isophorone	1.30224	1.19775	1.01485	1.35195	1.48616	.926	1.27059	13.902		
2-Nitrophenol	.22444	.21068	.19468	.21267	.22881	.940	.21426	6.236	*	
2,4-Dimethylphenol	.29120	.26715	.25262	.28285	.30734	.949	.28023	7.561		
Benzoic Acid	.01018	.03647	.07710	.10770	.08315	.971	.06292	62.045		
bis(-2-Chloroethoxy)Methane	.46009	.40777	.43006	.45257	.49347	.963	.44879	7.195		
2,4-Dichlorophenol	.34359	.31559	.25999	.30474	.32896	.981	.31057	10.240	*	
1,2,4-Trichlorobenzene	.55551	.46860	.36440	.43855	.45262	.993	.45594	15.023		
Naphthalene	.98135	.87237	.68154	.91378	.87631	1.004	.86507	12.893		
4-Chloroaniline	.47429	.41620	.36682	.42448	.44860	1.019	.42608	9.420		
Hexachlorobutadiene	.34245	.30968	.19896	.23484	.23580	1.032	.26435	22.472	*	
4-Chloro-3-methylphenol	.44756	.40886	.37792	.42872	.45762	1.102	.42414	7.512	*	

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

192

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5890BF

Contractor: Accredited Labs Calibration Date: 12/16/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>F9253	>F9251	>F9255	>F9254	>F9252					
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
2-Methylnaphthalene	.29701	.26870	.24011	.27264	.29536	1.102	.27476	8.460		
Hexachlorocyclopentadiene	.25606	.38151	.42427	.51144	.55493	.888	.42564	27.494		**
2,4,6-Trichlorophenol	.48483	.38024	.38833	.46680	.48012	.901	.44006	11.686	*	
2,4,5-Trichlorophenol	.48115	.39564	.35240	.46390	.46759	.907	.43214	12.863		
2-Chloronaphthalene	1.63485	1.22467	1.24822	1.53104	1.60754	.924	1.44926	13.672		
2-Fluorobiphenyl	1.41323	1.06834	1.04271	1.25433	1.26569	.910	1.20886	12.709		
2-Nitroaniline	.59749	.49712	.66453	.73123	.76388	.944	.65085	16.460		
Dimethyl Phthalate	1.77304	1.37923	1.57501	1.81951	1.91708	.970	1.69277	12.704		
Acenaphthylene	1.67351	1.24087	1.36143	1.62974	1.73476	.980	1.52806	14.053		
3-Nitroaniline	.39996	.31721	.35357	.43475	.46006	1.000	.39311	14.826		
Acenaphthene	1.12189	.84420	.90602	1.07132	1.13865	1.005	1.01641	13.101	*	
2,4-Dinitrophenol	.21664	.18283	.16057	.20091	.19645	.760	.19148	11.007		**
4-Nitrophenol	.26942	.26685	.30049	.37686	.36186	1.025	.31509	16.359		**
Dibenzofuran	1.82768	1.32613	1.30289	1.50878	1.57655	1.026	1.50841	14.143		
2,6-Dinitrotoluene	.51658	.38933	.39524	.46913	.47278	.981	.44861	12.203		
2,4-Dinitrotoluene	.84952	.66083	.67250	.83151	.85293	1.034	.77346	12.659		
Diethylphthalate	1.85125	1.43992	1.36224	1.82707	1.81299	1.065	1.65870	14.298		
4-Chlorophenyl-phenylether	.75752	.53188	.40405	.55353	.53180	1.070	.55576	22.915		
Fluorene	1.21639	.86486	.76444	.95951	1.01507	1.072	.96405	17.663		
4-Nitroaniline	.39101	.32581	.36759	.44213	.46362	1.085	.39803	14.010		
2,4,6-Tribromophenol	.57960	.42530	.31694	.47794	.41983	1.107	.44392	21.552		
4,6-Dinitro-2-methylphenol	.22501	.16294	.15304	.16609	.16784	.758	.17498	16.314		
N-Nitrosodiphenylamine	.39971	.26429	.22535	.22937	.22404	.912	.26855	27.992	*	
Azobenzene	2.51272	1.65565	1.45006	1.53214	1.52768	.914	1.73565	25.385		
4-Bromophenyl-phenylether	.33261	.21401	.17115	.19657	.19116	.949	.22110	29.029		
Hexachlorobenzene	.67256	.39189	.29222	.35492	.32610	.966	.40754	37.451		
Pentachlorophenol	.14472	.13859	.18330	.19555	.18491	.987	.16941	15.267	*	
Phenanthrene	1.02692	.67112	.66388	.73651	.76492	1.003	.77267	19.214		
Anthracene	1.06582	.70271	.64922	.71644	.71787	1.008	.77041	21.740		
1,2-Diphenylhydrazine	.10451	.07932	.07227	.07517	.07438	.635	.08113	16.416		

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

193

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5890BF

Contractor: Accredited Labs Calibration Date: 12/16/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>F9253	>F9251	>F9255	>F9254	>F9252					
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CCC	SPCC
Di-n-Butylphthalate	1.60113	1.05980	.79809	.93092	.92360	1.067	1.06271	29.632		
Fluoranthene	1.49570	.95813	.91628	.99101	.99138	1.136	1.07050	22.389	*	
Benzidine	.58001	.47690	.89202	.76212	.99348	.887	.74091	28.842		
Pyrene	1.32406	1.16099	2.12322	1.80444	2.26527	.895	1.73560	27.858		
Terphenyl-d14	1.22842	.99680	1.59649	1.37914	1.73010	.907	1.38619	21.003		
Butylbenzylphthalate	.68409	.60720	1.25964	1.00129	1.29695	.950	.96984	32.815		
3,3'-Dichlorobenzidine	.69468	.56504	.53919	.69950	.77520	.996	.65472	15.179		
Benzo(a)Anthracene	1.23724	.89292	.73838	1.02965	1.25368	.998	1.03037	21.528		
Bis(2-Ethylhexyl)Phthalate	.77849	.64446	.96654	.94083	1.16606	.998	.89928	22.027		
Chrysene	1.14081	.88064	1.07008	1.12632	1.32660	1.002	1.10889	14.423		
Di-n-octyl phthalate	1.14280	.97391	1.90424	1.40461	1.92953	.939	1.47102	29.576	*	
Benzo(b)fluoranthene	1.14325	1.00943	1.45760	1.53567	1.77244	.973	1.38368	22.204		
Benzo(k)Fluoranthene	.91319	.61850	.98024	.69161	.92382	.974	.82547	19.352		
Benzo(a)Pyrene	1.00235	.79816	.85689	.92894	1.03210	.996	.92369	10.578	*	
Indeno(1,2,3-cd)Pyrene	.99572	.34488	.35011	.23084	.30704	1.086	.44572	69.805		
Dibenzo(a,h)Anthracene	.82469	.31932	.28889	.20115	.25877	1.086	.37856	66.880		
Benzo(g,h,i)Perylene	.77999	.19375	.27679	.16170	.23026	1.112	.32850	77.931		

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

194

Initial Calibration Data
HSL Compounds

Case No:

Instrument ID: HP5890BF

Contractor: Accredited Labs

Calibration Date: 12/20/94

Contract No:

IC-3
OMP
on 12/20

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>F9312	>F9310	>F9314	>F9313	>F9311						
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CCC	SPCC
Pyridine	1.95841	2.01922	2.45501	2.57968	2.78772	.453	2.36001	15.243	.997410		
N-Nitrosodimethylamine	1.75176	1.91587	1.92823	2.18449	2.33977	.457	2.02403	11.598	.996638		
2-Fluorophenol	1.43826	1.48962	1.58950	1.73020	1.95444	.749	1.64040	12.673	.994405		
Aniline	2.67066	2.50105	2.45933	2.58598	2.90219	.942	2.62384	6.690	.994274		
Phenol-d5	1.79765	1.67601	1.67310	1.73510	1.93355	.943	1.76308	6.129	.995151		
Phenol	2.41950	2.22679	2.08160	2.09706	2.34173	.945	2.23334	6.643	.994641	*	
bis(-2-Chloroethyl)Ether	2.76101	2.52376	2.37818	2.43035	2.64287	1.229	2.54724	6.134	.996403		
2-Chlorophenol	1.59181	1.46783	1.33846	1.32563	1.37997	.965	1.42074	7.787	.998684		
1,3-Dichlorobenzene	2.25947	2.09206	1.93462	1.91519	2.00473	.992	2.04121	6.876	.998629		
1,4-Dichlorobenzene	2.18473	1.92367	1.83169	1.80116	1.93058	1.004	1.93437	7.802	.997590	*	
Benzyl Alcohol	1.05341	1.07005	1.01832	.97913	.99186	1.038	1.02255	3.805	.999551		
1,2-Dichlorobenzene	1.92670	1.62324	1.48726	1.32997	1.35799	1.043	1.54503	15.733	.998339		
2-Methylphenol	1.55498	1.43717	1.33730	1.36266	1.42010	1.067	1.42244	5.946	.998605		
bis(2-Chloroisopropyl)ether	3.21245	3.04554	2.86037	2.83795	2.87331	1.069	2.96593	5.416	.999722		
3&4-Methylphenol	1.64384	1.56354	1.46623	1.50308	1.63897	1.099	1.56313	5.084	.996375		
N-Nitroso-Di-n-propylamine	1.94501	1.80636	1.64001	1.62534	1.61339	1.101	1.72602	8.427	.999674		**
Hexachloroethane	.38386	.36293	.26581	.15427	.06037	1.106	.24545	56.136	.042635		
Nitrobenzene-d5	.62832	.61622	.62775	.64239	.67509	.883	.63795	3.564	.998934		
Nitrobenzene	.85244	.79920	.80653	.80468	.79184	.887	.81094	2.946	.999903		
Isophorone	1.69588	1.54053	1.53127	1.56743	1.44569	.925	1.55616	5.812	.997803		
2-Nitrophenol	.20413	.20427	.20699	.20518	.20799	.940	.20571	.831	.999936	*	
2,4-Dimethylphenol	.33974	.30262	.29713	.29408	.30436	.948	.30759	5.997	.999298		
Benzoic Acid	.02051	.06842	.14291	.15476	.17199	.975	.11172	57.754	.994824		
bis(-2-Chloroethoxy)Methane	.60848	.54389	.53960	.54517	.58611	.963	.56465	5.473	.997502		
2,4-Dichlorophenol	.31835	.29197	.27029	.26067	.25827	.981	.27991	9.027	.999755	*	
1,2,4-Trichlorobenzene	.44174	.38006	.34044	.32510	.30383	.993	.35824	15.177	.998435		
Naphthalene	1.03229	.92646	.86451	.83395	.76792	1.004	.88503	11.320	.997533		
4-Chloroaniline	.51160	.42861	.38397	.37076	.38759	1.019	.41651	13.780	.998154		

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

195

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5890BF

Contractor: Accredited Labs Calibration Date: 12/20/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>F9312	>F9310	>F9314	>F9313	>F9311						
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CCC	SPCC
Hexachlorobutadiene	.13060	.09852	.06851	.11106	.07457	1.033	.09665	26.598	.915312	*	
4-Chloro-3-methylphenol	.51166	.47854	.47335	.48415	.50850	1.103	.49124	3.593	.998682	*	
2-Methylnaphthalene	.31168	.28743	.27945	.27474	.28450	1.103	.28756	4.984	.999374		
Hexachlorocyclopentadiene	.12659	.27113	.28596	.30183	.23056	.887	.24322	28.931	.965650		**
2,4,6-Trichlorophenol	.39845	.37559	.40156	.40526	.36794	.900	.38976	4.316	.995992	*	
2,4,5-Trichlorophenol	.38183	.39046	.39929	.38691	.34791	.907	.38128	5.170	.994423		
2-Chloronaphthalene	1.66796	1.43976	1.45985	1.46332	1.34661	.924	1.47550	7.970	.997596		
2-Fluorobiphenyl	1.35758	1.17317	1.15414	1.11675	1.01306	.910	1.16294	10.763	.996514		
2-Nitroaniline	.84659	.85934	1.01116	1.09373	1.08269	.943	.97870	12.176	.998518		
Dimethyl Phthalate	1.78731	1.68807	1.81557	1.88982	1.84734	.970	1.80562	4.207	.999280		
Acenaphthylene	1.81785	1.57066	1.60737	1.66031	1.54787	.979	1.64081	6.564	.998112		
3-Nitroaniline	.48869	.45974	.46383	.49086	.48862	.999	.47835	3.181	.999393		
Acenaphthene	1.19329	1.07297	1.08284	1.08391	1.03433	1.005	1.09347	5.427	.999275	*	
2,4-Dinitrophenol	.15918	.13883	.11335	.14521	.10682	.759	.13268	16.595	.958354		**
4-Nitrophenol	.27884	.35237	.42992	.44497	.41614	1.024	.38445	17.888	.996585		**
Dibenzofuran	1.86790	1.63191	1.48460	1.40056	1.34258	1.026	1.54551	13.622	.999141		
2,6-Dinitrotoluene	.51383	.43306	.43133	.41230	.38673	.981	.43545	10.939	.998473		
2,4-Dinitrotoluene	.84829	.80533	.83217	.84512	.79586	1.033	.82536	2.863	.998585		
Diethylphthalate	2.05813	1.84893	1.92710	1.90083	1.72602	1.064	1.89220	6.381	.996144		
4-Chlorophenyl-phenylether	.63235	.51444	.46741	.43369	.37554	1.071	.48469	19.977	.991468		
Fluorene	1.26066	.99880	.89551	.83674	.76061	1.072	.95046	20.412	.997131		
4-Nitroaniline	.51864	.49621	.56801	.61292	.58613	1.085	.55638	8.648	.997858		
2,4,6-Tribromophenol	.35500	.33290	.35415	.33258	.28490	1.108	.33190	8.573	.987245		
4,6-Dinitro-2-methylphenol	.19319	.17753	.15259	.14197	.12984	.757	.15902	16.319	.995080		
N-Nitrosodiphenylamine	.46030	.34560	.25017	.25682	.28531	.911	.31964	27.279	.983944	*	
Azobenzene	3.72512	2.58398	1.78070	1.62526	1.48803	.914	2.24062	41.618	.990843		
4-Bromophenyl-phenylether	.25656	.20707	.16959	.14948	.13621	.949	.18378	26.490	.993586		
Hexachlorobenzene	.45730	.32774	.25584	.20737	.18821	.966	.28729	38.023	.987988		

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

196

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5890BF

Contractor: Accredited Labs Calibration Date: 12/20/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>F9312	>F9310	>F9314	>F9313	>F9311						
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CCC	SPCC
Pentachlorophenol	.10434	.13298	.13566	.13818	.13096	.987	.12842	10.698	.998296	*	
Phenanthrene	1.06409	.86546	.73397	.71332	.67387	1.003	.81014	19.643	.998906		
Anthracene	1.12203	.90886	.73807	.68743	.62186	1.008	.81565	24.716	.995365		
1,2-Diphenylhydrazine	.08115	.06621	.04527	.05507	.04114	.634	.05777	28.147	.955246		
Di-n-Butylphthalate	1.93942	1.52396	1.11895	1.00508	.87659	1.068	1.29280	33.668	.986229		
Fluoranthene	1.38549	1.14845	.96048	.90595	.86870	1.137	1.05381	20.342	.998611	*	
Benzidine	.30408	.33002	.38745	.47929	.63786	.886	.42774	31.642	.976034		
Pyrene	1.54065	1.55568	1.60381	1.84687	2.06185	.895	1.72177	13.168	.993340		
Terphenyl-d14	1.14233	1.11732	1.07070	1.15556	1.30368	.907	1.15792	7.572	.993404		
Butylbenzylphthalate	1.02046	1.03404	1.05549	1.23590	1.39540	.951	1.14826	14.227	.991987		
3,3'-Dichlorobenzidine	.59812	.59401	.54142	.52987	.49218	.997	.55112	8.150	.997464		
Benzo(a)Anthracene	1.30621	1.05475	.78488	.78631	1.08569	.999	1.00357	22.056	.956489		
Bis(2-Ethylhexyl)Phthalate	1.12973	.97166	.82005	.86093	.89116	.999	.93471	13.091	.996621		
Chrysene	1.19267	1.09999	.97628	1.03214	1.08569	1.003	1.07735	7.503	.996986		
Di-n-octyl phthalate	1.73677	1.33111	.87146	1.01719	.96796	.938	1.18490	29.820	.983905	*	
Benzo(b)fluoranthene	1.39973	1.00118	.73510	.95268	.81929	.973	.98159	26.130	.979315		
Benzo(k)Fluoranthene	.77912	.73843	.52600	.70563	.62869	.974	.67557	14.829	.982482		
Benzo(a)Pyrene	1.05157	.92914	.67478	.83736	.83872	.996	.86631	15.969	.988088	*	
Indeno(1,2,3-cd)Pyrene	1.02724	.96050	.66100	.50832	.41408	1.087	.71423	37.955	.905599		
Dibenzo(a,h)Anthracene	.81754	.74316	.50926	.55831	.58302	1.088	.64226	20.472	.987055		
Benzo(g,h,i)Perylene	.86892	.88966	.62379	.57660	.47392	1.113	.68658	26.832	.961735		

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

197

Initial Calibration Data
HSL Compounds

Case No:

Instrument ID: HP5890BB

Contractor: Accredited Labs

Calibration Date: 12/28/94

Contract No:

IC-4
0013
01/12/95

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>B7898	>B7901	>B7900	>B7899	>B7897						
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CCC	SPCC
Pyridine	1.16806	1.44434	1.64242	1.82255	1.24135	.398	1.46374	18.645	.938354		
N-Nitrosodimethylamine	.39617	.63139	.66925	.86290	.94275	.396	.70049	30.570	.993777		
2-Fluorophenol	.78950	1.05803	1.06729	1.22855	1.41577	.712	1.11183	20.841	.992872		
Aniline	1.97241	2.19484	2.60912	2.78934	2.96219	.929	2.50558	16.463	.998273		
Phenol-d5	1.22980	1.38879	1.61630	1.69027	1.86500	.935	1.55803	16.094	.997167		
Phenol	1.46446	1.76568	2.03554	1.99546	1.99407	.937	1.85104	13.013	.999183	*	
bis(-2-Chloroethyl)Ether	1.95359	2.10044	2.43737	2.30596	2.08596	1.256	2.17667	8.852	.992419		
2-Chlorophenol	1.01644	1.14292	1.23123	1.25113	1.32333	.955	1.19301	9.874	.999232		
1,3-Dichlorobenzene	1.10177	1.20551	1.24700	1.34053	1.33818	.986	1.24660	8.009	.999526		
1,4-Dichlorobenzene	1.10110	1.26918	1.18971	1.37641	1.34968	1.005	1.25722	9.054	.997727	*	
Benzyl Alcohol	.68545	.83030	1.00558	1.04493	1.24421	1.043	.96210	22.186	.992531		
1,2-Dichlorobenzene	1.10004	1.21810	1.18459	1.28193	1.35651	1.038	1.22824	7.913	.998083		
2-Methylphenol	1.02972	1.16991	1.24393	1.29147	1.34157	1.073	1.21532	9.999	.999581		
bis(2-Chloroisopropyl)ether	2.37738	2.78366	3.21829	3.31921	2.18450	1.079	2.77661	18.003	.920643		
3&4-Methylphenol	.97695	1.17185	1.39676	1.29845	1.11113	1.112	1.19103	13.697	.982960		
N-Nitroso-Di-n-propylamine	1.03984	1.27061	1.63867	1.60228	1.52742	1.107	1.41576	17.985	.996002		**
Hexachloroethane	.39322	.44702	.45966	.47370	.37289	1.115	.42930	10.214	.974900		
Nitrobenzene-d5	.26501	.32443	.36895	.39514	.43386	.872	.35748	18.251	.997475		
Nitrobenzene	.31616	.34973	.39650	.39425	.36744	.876	.36482	9.166	.996737		
Isophorone	.74689	.78551	.94512	1.01577	.99822	.924	.89830	13.817	.998427		
2-Nitrophenol	.11455	.14126	.16204	.17467	.18087	.933	.15468	17.497	.999258	*	
2,4-Dimethylphenol	.21476	.22106	.25111	.25979	.29024	.950	.24739	12.396	.996132		
Benzoic Acid	.00129	.01563	.03197	.03649	.08207	.984	.03349	91.146	.917149		
bis(-2-Chloroethoxy)Methane	.41866	.43299	.45966	.44333	.39335	.966	.42960	5.863	.992458		
2,4-Dichlorophenol	.18529	.19771	.20412	.22368	.24342	.980	.21084	10.858	.996649	*	
1,2,4-Trichlorobenzene	.20807	.20937	.22362	.21128	.24297	.991	.21906	6.723	.994356		
Naphthalene	.77979	.70021	.60305	.51321	.47036	1.004	.61332	20.916	.989483		
4-Chloroaniline	.36014	.35345	.35660	.35237	.32597	1.020	.34971	3.893	.997482		

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

198

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5890BB

Contractor: Accredited Labs Calibration Date: 12/28/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>B7898	>B7901	>B7900	>B7899	>B7897						
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CCC	SPCC
Hexachlorobutadiene	.07833	.08084	.07411	.07979	.08532	1.029	.07968	5.100	.996815	*	
4-Chloro-3-methylphenol	.27759	.29793	.33634	.34531	.32812	1.115	.31706	8.943	.998237	*	
2-Methylnaphthalene	.53982	.53625	.51691	.49610	.44191	1.134	.50620	7.891	.993611		
Hexachlorocyclopentadiene	.00946	.06295	.09145	.10171	.13694	.876	.08050	59.279	.984733		**
2,4,6-Trichlorophenol	.19903	.24458	.29680	.27557	.29629	.897	.26245	15.755	.997687	*	
2,4,5-Trichlorophenol	.21537	.26076	.31041	.30845	.30156	.903	.27931	14.700	.998522		
2-Chloronaphthalene	.74355	.87066	.91812	.79070	.74302	.923	.81321	9.642	.990179		
2-Fluorobiphenyl	.75697	.78054	.88707	.78946	.65696	.909	.77420	10.623	.975771		
2-Nitroaniline	.35382	.51687	.64797	.63930	.66379	.942	.56435	23.286	.999022		
Dimethyl Phthalate	1.04928	1.15768	1.28869	1.20162	1.16742	.971	1.17294	7.356	.997494		
Acenaphthylene	1.33914	1.34082	1.21683	.93619	.86704	.981	1.14000	19.709	.973563		
3-Nitroaniline	.28566	.34032	.39975	.42222	.47347	1.001	.38429	18.986	.996410		
Acenaphthene	.84284	.88840	.91374	.83586	.74636	1.006	.84544	7.579	.990600	*	
2,4-Dinitrophenol	.07843	.09115	.10747	.09846	.10098	.748	.09530	11.641	.997720		**
4-Nitrophenol	.03914	.08537	.11609	.12542	.13762	1.032	.10073	39.194	.998300		**
Dibenzofuran	1.34984	1.29829	1.19009	.98908	.85397	1.030	1.13625	18.467	.976486		
2,6-Dinitrotoluene	.23899	.29600	.34218	.30639	.28147	.978	.29301	12.835	.990005		
2,4-Dinitrotoluene	.36847	.46029	.54931	.56203	.59484	1.035	.50699	18.159	.999117		
Diethylphthalate	1.18855	1.22185	1.23789	1.05179	.93433	1.072	1.12688	11.558	.983590		
4-Chlorophenyl-phenylether	.44813	.47371	.49983	.48164	.43806	1.081	.46827	5.363	.994882		
Fluorene	1.00791	1.03017	1.05158	.91553	.79944	1.078	.96092	10.835	.983660		
4-Nitroaniline	.34710	.42597	.52917	.56617	.54817	1.090	.48332	19.358	.998134		
2,4,6-Tribromophenol	.11182	.12478	.18126	.17135	.18139	1.113	.15412	21.586	.996141		
4,6-Dinitro-2-methylphenol	.09751	.11877	.12732	.11311	.13588	.742	.11852	12.299	.990872		
N-Nitrosodiphenylamine	.33579	.32115	.32385	.26654	.21602	.910	.29267	17.254	.960347	*	
Azobenzene	1.99014	1.22844	1.00398	.80669	.79670	.913	1.16519	42.368	.995488		
4-Bromophenyl-phenylether	.12947	.12615	.12951	.11360	.13734	.951	.12721	6.798	.988575		
Hexachlorobenzene	.12997	.14045	.12988	.12888	.15750	.955	.13734	8.899	.987226		

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

199

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: HP5890BB

Contractor: Accredited Labs Calibration Date: 12/28/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % RSD for CCC is 30%

Laboratory ID:	>B7898	>B7901	>B7900	>B7899	>B7897						
Compound	RF 20.00	RF 50.00	RF 80.00	RF 120.00	RF 160.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CCC	SPCC
Pentachlorophenol	-	.05352	.07332	.08244	.10801	.980	.07932	28.516	.988026	*	
Phenanthrene	.84663	.72326	.60136	.47946	.34739	1.003	.59962	32.761	.904117		
Anthracene	.88315	.72582	.57745	.49044	.34739	1.008	.60485	34.305	.911190		
1,2-Diphenylhydrazine	.03924	.04482	.04662	.04081	.04790	.618	.04388	8.486	.991840		
Di-n-Butylphthalate	.59466	.60072	.53695	.43597	.44072	.887	.52180	15.364	.989377		
Fluoranthene	.94292	.79191	.66134	.54884	.51274	1.141	.69155	25.717	.989748	*	
Benzidine	.31325	.46300	.60576	.50382	.67501	.887	.51217	27.148	.981106		
Pyrene	1.30246	1.31680	1.31176	1.14876	1.65534	.892	1.34702	13.814	.966216		
Terphenyl-d14	.81130	.80135	.97832	.84041	1.18635	.909	.92355	17.668	.972331		
Butylbenzylphthalate	.58546	.78136	.90042	.72675	1.04418	.955	.80764	21.549	.970707		
3,3'-Dichlorobenzidine	.26191	.27911	.29098	.19955	.26915	.998	.26014	13.682	.962935		
Benzo(a)Anthracene	.85388	.79776	1.05365	.84286	1.18581	.998	.94679	17.530	.971234		
Bis(2-Ethylhexyl)Phthalate	.96253	1.11765	1.14809	.88957	1.26364	1.007	1.07630	13.919	.967012		
Chrysene	.85203	.87871	.94478	.73042	1.02929	1.003	.88705	12.527	.967955		
Di-n-octyl phthalate	1.41747	2.50190	3.20092	3.02576	3.42613	.951	2.71444	29.515	.996663	*	
Benzo(b)fluoranthene	.49463	1.02107	1.33497	1.21251	1.50170	.975	1.11298	34.830	.991020		
Benzo(k)Fluoranthene	.49463	.78204	1.10837	.98592	1.47015	.976	.96822	37.625	.970750		
Benzo(a)Pyrene	.60944	.67105	.75138	.78220	1.05687	.996	.77419	22.211	.977843	*	
Indeno(1,2,3-cd)Pyrene	.20392	.20878	.18921	.39733	.68999	1.071	.33785	63.523	.925637		
Dibenzo(a,h)Anthracene	.16208	.15824	.14084	.30191	.46232	1.072	.24508	56.140	.939409		
Benzo(g,h,i)Perylene	.12967	.13485	.13710	.29266	.50342	1.090	.23954	67.953	.928350		

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

200

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/09/94

Contractor: Accredited Labs

Time: 14:55

Contract No:

Laboratory ID: >B7557

Instrument ID: HP5890BB

Initial Calibration Date: 12/02/94

CC-1
CC-1
on B
on 12/2

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Pyridine	1.54341	1.32687	14.03		
N-Nitrosodimethylamine	.56558	.70085	23.92		
2-Fluorophenol	1.12610	1.09685	2.60		
Aniline	2.07219	2.01566	2.73		
Phenol-d5	1.51689	1.36884	9.76		
Phenol	1.87798	1.77312	5.58	*	
bis(-2-Chloroethyl)Ether	2.18598	1.90127	13.02		
2-Chlorophenol	1.31948	1.18050	10.53		
1,3-Dichlorobenzene	1.78300	1.66316	6.72		
1,4-Dichlorobenzene	1.86373	1.61064	13.58	*	
Benzyl Alcohol	.85019	.77568	8.76		
1,2-Dichlorobenzene	1.67608	1.34884	19.52		
2-Methylphenol	1.27055	1.08636	14.50		
bis(2-Chloroisopropyl)ether	1.81117	2.95430	63.12		
3&4-Methylphenol	1.32910	1.16317	12.48		
N-Nitroso-Di-n-propylamine	1.24028	1.18084	4.79		**
Hexachloroethane	.64415	.57842	10.20		
Nitrobenzene-d5	.36765	.38722	5.32		
Nitrobenzene	.50746	.53212	4.86		
Isophorone	1.24974	1.15878	7.28		
2-Nitrophenol	.19507	.19905	2.04	*	
2,4-Dimethylphenol	.27275	.25976	4.77		
Benzoic Acid	.05999	.05785	3.57		
bis(-2-Chloroethoxy)Methane	.47389	.45352	4.30		
2,4-Dichlorophenol	.27671	.26780	3.22	*	
1,2,4-Trichlorobenzene	.37030	.36937	.25		
Naphthalene	.88660	.78029	11.99		
4-Chloroaniline	.42417	.35470	16.38		
Hexachlorobutadiene	.15926	.16656	4.59	*	
4-Chloro-3-methylphenol	.36975	.31271	15.43	*	
2-Methylnaphthalene	.63610	.56447	11.26		
Hexachlorocyclopentadiene	.12991	.20983	61.51		**

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

201

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/09/94

Contractor: Accredited Labs

Time: 14:55

Contract No:

Laboratory ID: >B7557

Instrument ID: HP5890BB

Initial Calibration Date: 12/02/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
2,4,6-Trichlorophenol	.33976	.33361	1.81	*	
2,4,5-Trichlorophenol	.36129	.36897	2.12		
2-Chloronaphthalene	1.29870	1.23157	5.17		
2-Fluorobiphenyl	1.08608	1.11419	2.59		
2-Nitroaniline	.45754	.52252	14.20		
Dimethyl Phthalate	1.56624	1.46158	6.68		
Acenaphthylene	1.66204	1.40798	15.29		
3-Nitroaniline	.42378	.35301	16.70		
Acenaphthene	1.03974	.96237	7.44	*	
2,4-Dinitrophenol	.15465	.17494	13.12		**
4-Nitrophenol	.14688	.11894	19.02		**
Dibenzofuran	1.53421	1.37410	10.44		
2,6-Dinitrotoluene	.51669	.45144	12.63		
2,4-Dinitrotoluene	.77687	.75029	3.42		
Diethylphthalate	1.57387	1.33676	15.07		
4-Chlorophenyl-phenylether	.57796	.53495	7.44		
Fluorene	1.24809	1.18575	4.99		
4-Nitroaniline	.44252	.50114	13.25		
2,4,6-Tribromophenol	.19772	.20077	1.54		
4,6-Dinitro-2-methylphenol	.15514	.13987	9.84		
N-Nitrosodiphenylamine	.34064	.33910	.45	*	
Azobenzene	1.94495	1.19549	38.53		
4-Bromophenyl-phenylether	.15977	.13942	12.74		
Hexachlorobenzene	.23263	.22000	5.43		
Pentachlorophenol	.10358	.10038	3.09	*	
Phenanthrene	.88251	.63108	28.49		
Anthracene	.90683	.69103	23.80		
1,2-Diphenylhydrazine	.06828	.07417	8.63		
Di-n-Butylphthalate	.69360	.56677	18.29		
Fluoranthene	.88104	.80070	9.12	*	
Benzidine	.58439	.25113	57.03		
Pyrene	3.43311	1.21579	64.59		

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

202

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/09/94

Contractor: Accredited Labs

Time: 14:55

Contract No:

Laboratory ID: >B7557

Instrument ID: HP5890BB

Initial Calibration Date: 12/02/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Terphenyl-d14	2.10988	.76623	63.68		
Butylbenzylphthalate	1.03758	.77030	25.76		
3,3'-Dichlorobenzidine	.25048	.27642	10.36		
Benzo(a)Anthracene	1.22408	.77645	36.57		
Bis(2-Ethylhexyl)Phthalate	1.14690	.91391	20.32		
Chrysene	.91688	.76895	16.13		
Di-n-octyl phthalate	3.10712	2.70126	13.06	*	
Benzo(b)fluoranthene	1.48001	1.06004	28.38		
Benzo(k)Fluoranthene	1.09045	1.10504	1.34		
Benzo(a)Pyrene	.93769	.72802	22.36	*	
Indeno(1,2,3-cd)Pyrene	.48749	.16784	65.57		
Dibenzo(a,h)Anthracene	.38260	.14272	62.70		
Benzo(g,h,i)Perylene	.40139	.12115	69.82		

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

203

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/19/94

Contractor: Accredited Labs

Time: 12:50

Contract No:

Laboratory ID: >F9271

Instrument ID: HP5890BF

Initial Calibration Date: 12/16/94

FC-2
CC-2
O.K. F.
on 12/16

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Pyridine	1.71611	1.62311	5.42		
N-Nitrosodimethylamine	1.42454	1.50588	5.71		
2-Fluorophenol	1.29307	1.25223	3.16		
Aniline	2.08914	2.01446	3.58		
Phenol-d5	1.34761	1.31141	2.69		
Phenol	1.72860	1.72353	.29	*	
bis(-2-Chloroethyl)Ether	1.71210	1.80877	5.65		
2-Chlorophenol	1.27005	1.30768	2.96		
1,3-Dichlorobenzene	1.92663	1.94959	1.19		
1,4-Dichlorobenzene	1.85083	1.95453	5.60	*	
Benzyl Alcohol	.76049	.85663	12.64		
1,2-Dichlorobenzene	1.57530	1.69121	7.36		
2-Methylphenol	1.11489	1.16910	4.86		
bis(2-Chloroisopropyl)ether	1.75562	2.04707	16.60		
3&4-Methylphenol	1.18702	1.22459	3.17		
N-Nitroso-Di-n-propylamine	1.15805	1.33086	14.92		**
Hexachloroethane	.37329	.48601	30.19		
Nitrobenzene-d5	.51185	.51636	.88		
Nitrobenzene	.66742	.65452	1.93		
Isophorone	1.27059	1.27307	.20		
2-Nitrophenol	.21426	.18789	12.31	*	
2,4-Dimethylphenol	.28023	.28230	.74		
Benzoic Acid	.06292	.06416	1.97		
bis(-2-Chloroethoxy)Methane	.44879	.44394	1.08		
2,4-Dichlorophenol	.31057	.33023	6.33	*	
1,2,4-Trichlorobenzene	.45594	.48036	5.36		
Naphthalene	.86507	.89423	3.37		
4-Chloroaniline	.42608	.42379	.54		
Hexachlorobutadiene	.26435	.31208	18.06	*	
4-Chloro-3-methylphenol	.42414	.44379	4.63	*	
2-Methylnaphthalene	.27476	.28851	5.00		
Hexachlorocyclopentadiene	.42564	.25436	40.24		**

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

204

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/19/94

Contractor: Accredited Labs

Time: 12:50

Contract No:

Laboratory ID: >F9271

Instrument ID: HP5890BF

Initial Calibration Date: 12/16/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
2,4,6-Trichlorophenol	.44006	.47585	8.13	*	
2,4,5-Trichlorophenol	.43214	.48095	11.30		
2-Chloronaphthalene	1.44926	1.47990	2.11		
2-Fluorobiphenyl	1.20886	1.27193	5.22		
2-Nitroaniline	.65085	.63276	2.78		
Dimethyl Phthalate	1.69277	1.70898	.96		
Acenaphthylene	1.52806	1.46625	4.05		
3-Nitroaniline	.39311	.38889	1.07		
Acenaphthene	1.01641	1.05996	4.28	*	
2,4-Dinitrophenol	.19148	.20062	4.77		**
4-Nitrophenol	.31509	.30563	3.00		**
Dibenzofuran	1.50841	1.66402	10.32		
2,6-Dinitrotoluene	.44861	.43230	3.64		
2,4-Dinitrotoluene	.77346	.78682	1.73		
Diethylphthalate	1.65870	1.74733	5.34		
4-Chlorophenyl-phenylether	.55576	.64365	15.81		
Fluorene	.96405	1.05108	9.03		
4-Nitroaniline	.39803	.42341	6.38		
2,4,6-Tribromophenol	.44392	.48334	8.88		
4,6-Dinitro-2-methylphenol	.17498	.19741	12.81		
N-Nitrosodiphenylamine	.26855	.33723	25.57	*	
Azobenzene	1.73565	1.91317	10.23		
4-Bromophenyl-phenylether	.22110	.25528	15.46		
Hexachlorobenzene	.40754	.46028	12.94		
Pentachlorophenol	.16941	.15815	6.65	*	
Phenanthrene	.77267	.84610	9.50		
Anthracene	.77041	.87408	13.46		
1,2-Diphenylhydrazine	.08113	.08558	5.49		
Di-n-Butylphthalate	1.06271	1.32405	24.59		
Fluoranthene	1.07050	1.18072	10.30	*	
Benzidine	.74091	.27145	63.36		
Pyrene	1.73560	1.20072	30.82		

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

205

Continuing Calibration Check
HSL Compounds

Case No: | Calibration Date: 12/19/94

Contractor: Accredited Labs | Time: 12:50

Contract No: | Laboratory ID: >F9271

Instrument ID: HP5890BF | Initial Calibration Date: 12/16/94

Minimum $\overline{RF}$ for SPCC is 0.05 | Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Terphenyl-d14	1.38619	1.04040	24.95		
Butylbenzylphthalate	.96984	.63983	34.03		
3,3'-Dichlorobenzidine	.65472	.49913	23.76		
Benzo(a)Anthracene	1.03037	.80490	21.88		
Bis(2-Ethylhexyl)Phthalate	.89928	.61806	31.27		
Chrysene	1.10889	1.02102	7.92		
Di-n-octyl phthalate	1.47102	1.05139	28.53	*	
Benzo(b)fluoranthene	1.38368	.98660	28.70		
Benzo(k)Fluoranthene	.82547	.82152	.48		
Benzo(a)Pyrene	.92369	.91004	1.48	*	
Indeno(1,2,3-cd)Pyrene	.44572	.90855	103.84		
Dibenzo(a,h)Anthracene	.37856	.81822	116.14		
Benzo(g,h,i)Perylene	.32850	.82180	150.17		

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

206

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/23/94

Contractor: Accredited Labs

Time: 23:19

Contract No:

Laboratory ID: >B7867

Instrument ID: HP5890BB

Initial Calibration Date: 12/02/94

FC-I
CC-3
on B
on 12/8

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Pyridine	1.54341	.39552	74.37	NTA	
N-Nitrosodimethylamine	.56558	.39955	29.36	"	
2-Fluorophenol	1.12610	.66285	41.14	"	
Aniline	2.07219	2.02886	2.09		
Phenol-d5	1.51689	1.78169	17.46		
Phenol	1.87798	2.07229	10.35	*	
bis(-2-Chloroethyl)Ether	2.18598	3.84141	75.73		
2-Chlorophenol	1.31948	1.36100	3.15		
1,3-Dichlorobenzene	1.78300	1.56133	12.43		
1,4-Dichlorobenzene	1.86373	1.62726	12.69	*	
Benzyl Alcohol	.85019	1.10216	29.64		
1,2-Dichlorobenzene	1.67608	1.75588	4.76		
2-Methylphenol	1.27055	1.59177	25.28		
bis(2-Chloroisopropyl)ether	1.81117	1.71848	5.12		
3&4-Methylphenol	1.32910	1.78010	33.93		
N-Nitroso-Di-n-propylamine	1.24028	2.00854	61.94		**
Hexachloroethane	.64415	.78965	22.59		
Nitrobenzene-d5	.36765	.44100	19.95		
Nitrobenzene	.50746	.50409	.66		
Isophorone	1.24974	1.06525	14.76		
2-Nitrophenol	.19507	.17849	8.50	*	
2,4-Dimethylphenol	.27275	.25494	6.53		
Benzoic Acid	.05999	.03022	49.63		
bis(-2-Chloroethoxy)Methane	.47389	.54967	15.99		
2,4-Dichlorophenol	.27671	.26221	5.24	*	
1,2,4-Trichlorobenzene	.37030	.28918	21.91		
Naphthalene	.88660	.86456	2.49		
4-Chloroaniline	.42417	.37346	11.95		
Hexachlorobutadiene	.15926	.11519	27.67	*	
4-Chloro-3-methylphenol	.36975	.34248	7.38	*	
2-Methylnaphthalene	.63610	.68036	6.96		
Hexachlorocyclopentadiene	.12991	.13895	6.96		**

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

207

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/23/94

Contractor: Accredited Labs

Time: 23:19

Contract No:

Laboratory ID: >B7867

Instrument ID: HP5890BB

Initial Calibration Date: 12/02/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
2,4,6-Trichlorophenol	.33976	.29579	12.94	*	
2,4,5-Trichlorophenol	.36129	.32494	10.06		
2-Chloronaphthalene	1.29870	1.12164	13.63		
2-Fluorobiphenyl	1.08608	1.02332	5.78		
2-Nitroaniline	.45754	.51576	12.72		
Dimethyl Phthalate	1.56624	1.33589	14.71		
Acenaphthylene	1.66204	1.49249	10.20		
3-Nitroaniline	.42378	.35046	17.30		
Acenaphthene	1.03974	1.06852	2.77	*	
2,4-Dinitrophenol	.15465	.12577	18.67		**
4-Nitrophenol	.14688	.11166	23.98		**
Dibenzofuran	1.53421	1.42545	7.09		
2,6-Dinitrotoluene	.51669	.33861	34.46		
2,4-Dinitrotoluene	.77687	.55642	28.38		
Diethylphthalate	1.57387	1.35752	13.75		
4-Chlorophenyl-phenylether	.57796	.52513	9.14		
Fluorene	1.24809	1.24448	.29		
4-Nitroaniline	.44252	.43428	1.86		
2,4,6-Tribromophenol	.19772	.12216	38.21		
4,6-Dinitro-2-methylphenol	.15514	.13668	11.90		
N-Nitrosodiphenylamine	.34064	.33263	2.35	*	
Azobenzene	1.94495	1.53888	20.88		
4-Bromophenyl-phenylether	.15977	.11571	27.58		
Hexachlorobenzene	.23263	.15622	32.85		
Pentachlorophenol	.10358	.07403	28.53	*	
Phenanthrene	.88251	.81625	7.51		
Anthracene	.90683	.78456	13.48		
1,2-Diphenylhydrazine	.06828	.06134	10.16		
Di-n-Butylphthalate	.69360	.66210	4.54		
Fluoranthene	.88104	.88186	.09	*	
Benzidine	.58439	.09744	83.33		
Pyrene	3.43311	1.40993	58.93		

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

208

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/23/94

Contractor: Accredited Labs

Time: 23:19

Contract No:

Laboratory ID: >B7867

Instrument ID: HP5890BB

Initial Calibration Date: 12/02/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Terphenyl-d14	2.10988	.75911	64.02		
Butylbenzylphthalate	1.03758	.66102	36.29		
3,3'-Dichlorobenzidine	.25048	.20238	19.20		
Benzo(a)Anthracene	1.22408	1.04888	14.31		
Bis(2-Ethylhexyl)Phthalate	1.14690	1.00068	12.75		
Chrysene	.91688	1.01711	10.93		
Di-n-octyl phthalate	3.10712	2.37567	23.54	*	
Benzo(b)fluoranthene	1.48001	1.06606	27.97		
Benzo(k)Fluoranthene	1.09045	1.16474	6.81		
Benzo(a)Pyrene	.93769	.75453	19.53	*	
Indeno(1,2,3-cd)Pyrene	.48749	.32605	33.12		
Dibenzo(a,h)Anthracene	.38260	.24278	36.54		
Benzo(g,h,i)Perylene	.40139	.19444	51.56		

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

209

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/28/94

Contractor: Accredited Labs

Time: 09:29

Contract No:

Laboratory ID: >B7923

Instrument ID: HP5890BB

Initial Calibration Date: 12/28/94

IC-4
CC-4
mB
01/12/95

Minimum $\overline{RF}$ for SPCC is 0.05

Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Pyridine	1.46374	1.49163	1.91		
N-Nitrosodimethylamine	.70049	.58136	17.01		
2-Fluorophenol	1.11183	1.02931	7.42		
Aniline	2.50558	2.24828	10.27		
Phenol-d5	1.55803	1.43658	7.79		
Phenol	1.85104	1.71659	7.26	*	
bis(-2-Chloroethyl)Ether	2.17667	2.06089	5.32		
2-Chlorophenol	1.19301	1.12312	5.86		
1,3-Dichlorobenzene	1.24660	1.20997	2.94		
1,4-Dichlorobenzene	1.25722	1.23303	1.92	*	
Benzyl Alcohol	.96210	.88582	7.93		
1,2-Dichlorobenzene	1.22824	1.19869	2.41		
2-Methylphenol	1.21532	1.16904	3.81		
bis(2-Chloroisopropyl)ether	2.77661	.98225	64.62		
3&4-Methylphenol	1.19103	1.18822	.24		
N-Nitroso-Di-n-propylamine	1.41576	1.28680	9.11		**
Hexachloroethane	.42930	.44639	3.98		
Nitrobenzene-d5	.35748	.34228	4.25		
Nitrobenzene	.36482	.35680	2.20		
Isophorone	.89830	.84009	6.48		
2-Nitrophenol	.15468	.15197	1.75	*	
2,4-Dimethylphenol	.24739	.23792	3.83		
Benzoic Acid	.03349	.02512	25.00		
bis(-2-Chloroethoxy)Methane	.42960	.44488	3.56		
2,4-Dichlorophenol	.21084	.21727	3.05	*	
1,2,4-Trichlorobenzene	.21906	.21743	.74		
Naphthalene	.61332	.77422	26.23		
4-Chloroaniline	.34971	.37456	7.11		
Hexachlorobutadiene	.07968	.08560	7.43	*	
4-Chloro-3-methylphenol	.31706	.30440	3.99	*	
2-Methylnaphthalene	.50620	.55255	9.16		
Hexachlorocyclopentadiene	.08050	.06033	25.06		**

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

210

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/28/94

Contractor: Accredited Labs

Time: 09:29

Contract No:

Laboratory ID: >B7923

Instrument ID: HP5890BB

Initial Calibration Date: 12/28/94

Minimum $\overline{RF}$ for SPCC is 0.05

Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
2,4,6-Trichlorophenol	.26245	.25152	4.17	*	
2,4,5-Trichlorophenol	.27931	.25684	8.05		
2-Chloronaphthalene	.81321	.85678	5.36		
2-Fluorobiphenyl	.77420	.88673	14.53		
2-Nitroaniline	.56435	.53640	4.95		
Dimethyl Phthalate	1.17294	1.22571	4.50		
Acenaphthylene	1.14000	1.53580	34.72		
3-Nitroaniline	.38429	.36480	5.07		
Acenaphthene	.84544	.88544	4.73	*	
2,4-Dinitrophenol	.09530	.09478	.55		**
4-Nitrophenol	.10073	.09620	4.50		**
Dibenzofuran	1.13625	1.47485	29.80		
2,6-Dinitrotoluene	.29301	.30058	2.59		
2,4-Dinitrotoluene	.50699	.47960	5.40		
Diethylphthalate	1.12688	1.40653	24.82		
4-Chlorophenyl-phenylether	.46827	.51171	9.28		
Fluorene	.96092	1.13429	18.04		
4-Nitroaniline	.48332	.46250	4.31		
2,4,6-Tribromophenol	.15412	.14978	2.82		
4,6-Dinitro-2-methylphenol	.11852	.09652	18.56		
N-Nitrosodiphenylamine	.29267	.31329	7.05	*	
Azobenzene	1.16519	1.20529	3.44		
4-Bromophenyl-phenylether	.12721	.12041	5.35		
Hexachlorobenzene	.13734	.12946	5.73		
Pentachlorophenol	.07932	.06134	22.67	*	
Phenanthrene	.59962	.75655	26.17		
Anthracene	.60485	.73914	22.20		
1,2-Diphenylhydrazine	.04388	.03790	13.63		
Di-n-Butylphthalate	.52180	.56237	7.77		
Fluoranthene	.69155	.86573	25.19	*	
Benzidine	.51217	.38571	24.69		
Pyrene	1.34702	1.21167	10.05		

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

211

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/28/94

Contractor: Accredited Labs Time: 09:29

Contract No: Laboratory ID: >B7923

Instrument ID: HP5890BB Initial Calibration Date: 12/28/94

Minimum $\overline{RF}$ for SPCC is 0.05 Maximum % Diff for CCC is 30%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Terphenyl-d14	.92355	.77980	15.56		
Butylbenzylphthalate	.80764	.83508	3.40		
3,3'-Dichlorobenzidine	.26014	.31980	22.93		
Benzo(a)Anthracene	.94679	.94208	.50		
Bis(2-Ethylhexyl)Phthalate	1.07630	1.11901	3.97		
Chrysene	.88705	.97470	9.88		
Di-n-octyl phthalate	2.71444	1.96608	27.57	*	
Benzo(b)fluoranthene	1.11298	1.11418	.11		
Benzo(k)Fluoranthene	.96822	.90666	6.36		
Benzo(a)Pyrene	.77419	.71964	7.05	*	
Indeno(1,2,3-cd)Pyrene	.33785	.23598	30.15		
Dibenzo(a,h)Anthracene	.24508	.19402	20.83		
Benzo(g,h,i)Perylene	.23954	.14580	39.13		

RF - Response Factor from daily standard file at 50.00 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

212

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Accredited Labs, Inc.

Matrix Spike - Lab Sample No.:9417643

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC#	QC LIMITS REC
Phenol	200	0	48	24	12- 89
2-Chlorophenol	200	0	66	33	27-123
1,4-Dichlorobenzene	100	0	27	27*	36- 97
N-Nitroso-di-n-prop.(1)	100	0	43	43	41-116
1,2,4-Trichlorobenzene	100	0	37	37*	39- 98
4-Chloro-3-methylphenol	200	0	82	41	23- 97
Acenaphthene	100	0	39	39*	46-118
4-Nitrophenol	200	0	55	27	10- 80
2,4-Dinitrotoluene	100	0	32	32	24- 96
Pentachlorophenol	200	0	79	39	9-103
Pyrene	100	0	15	15*	26-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC#	% RPD#	QC LIMITS RPD	QC LIMITS REC
Phenol	200	49	24	1	42	12- 89
2-Chlorophenol	200	73	37	10	40	27-123
1,4-Dichlorobenzene	100	28	28*	2	28	36- 97
N-Nitroso-di-n-prop.(1)	100	47	47	9	38	41-116
1,2,4-Trichlorobenzene	100	41	41	9	28	39- 98
4-Chloro-3-methylphenol	200	89	44	8	42	23- 97
Acenaphthene	100	43	43*	11	31	46-118
4-Nitrophenol	200	61	31	11	50	10- 80
2,4-Dinitrotoluene	100	36	36	12	38	24- 96
Pentachlorophenol	200	84	42	6	50	9-103
Pyrene	100	18	18*	20	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: 7 of 22 outside limits

COMMENTS:

213

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Accredited Labs, Inc.

Matrix Spike - Lab Sample No.:9417661

COMPOUND	SPIKE ADDED (UG/L)	SAMPLE CONCENTRATION (UG/L)	MS CONCENTRATION (UG/L)	MS % REC#	QC LIMITS REC
Phenol	200	0	85	85	12- 89
2-Chlorophenol	200	0	100	100	27-123
1,4-Dichlorobenzene	100	0	45	45	36- 97
N-Nitroso-di-n-prop.(1)	100	0	40	40	41-116
1,2,4-Trichlorobenzene	100	0	40	40	39- 98
4-Chloro-3-methylphenol	200	0	130	130*	23- 97
Acenaphthene	100	0	60	60	46-118
4-Nitrophenol	200	0	0	0*	10- 80
2,4-Dinitrotoluene	100	0	10	10*	24- 96
Pentachlorophenol	200	0	0	0*	9-103
Pyrene	100	0	80	80	26-127

COMPOUND	SPIKE ADDED (UG/L)	MSD CONCENTRATION (UG/L)	MSD % REC#	% RPD#	QC LIMITS RPD	QC LIMITS REC
Phenol	200	85	85	5	42	12- 89
2-Chlorophenol	200	100	100	1	40	27-123
1,4-Dichlorobenzene	100	50	50	6	28	36- 97
N-Nitroso-di-n-prop.(1)	100	40	80	5	38	41-116
1,2,4-Trichlorobenzene	100	40	80	7	28	39- 98
4-Chloro-3-methylphenol	200	125	125*	5	42	23- 97
Acenaphthene	100	70	70	9	31	46-118
4-Nitrophenol	200	0	0*	0	50	10- 80
2,4-Dinitrotoluene	100	15	15*	12	38	24- 96
Pentachlorophenol	200	0	0*	0	50	9-103
Pyrene	100	80	80	2	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: 8 of 22 outside limits

COMMENTS:

214

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Accredited Labs, Inc.

Matrix Spike - Lab Sample No.:9417644 (BB55-01)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC#	QC LIMITS REC
Phenol	6666	0	7882	118*	26- 90
2-Chlorophenol	6666	0	7892	118*	25-102
1,4-Dichlorobenzene	3333	0	3178	116*	28-104
N-Nitroso-di-n-prop.(1)	3333	0	4150	125	41-126
1,2,4-Trichlorobenzene	3333	0	3195	96	38-107
4-Chloro-3-methylphenol	6666	0	5782	87	26-103
Acenaphthene	3333	1668	1397	0*	31-137
4-Nitrophenol	6666	0	0	0*	11-114
2,4-Dinitrotoluene	3333	0	0	0*	28- 89
Pentachlorophenol	6666	0	13867	208*	17-109
Pyrene	3333	5620	8028	72	35-142

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC#	% RPD#	QC LIMITS RPD	QC LIMITS REC
Phenol	6666	9885	148*	23	35	26- 90
2-Chlorophenol	6666	9833	148*	23	50	25-102
1,4-Dichlorobenzene	3333	3860	116*	20	27	28-104
N-Nitroso-di-n-prop.(1)	3333	4982	149*	18	38	41-126
1,2,4-Trichlorobenzene	3333	3558	107	11	23	38-107
4-Chloro-3-methylphenol	6666	7483	112*	25	33	26-103
Acenaphthene	3333	1280	0*	0	19	31-137
4-Nitrophenol	6666	0	0*	0	50	11-114
2,4-Dinitrotoluene	3333	0	0*	0	47	28- 89
Pentachlorophenol	6666	7917	119*	54*	47	17-109
Pyrene	3333	13557	238*	107*	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: 17 out of 11 outside limits
Spike Recovery: 2 of 22 outside limits

COMMENTS:

215

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Accredited Labs, Inc.

Matrix Spike - Lab Sample No.:9417652

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC#	QC LIMITS REC
Phenol	6666	0	6116	92*	26- 90
2-Chlorophenol	6666	0	6117	92	25-102
1,4-Dichlorobenzene	3333	0	2386	72	28-104
N-Nitroso-di-n-prop.(1)	3333	0	3817	115	41-126
1,2,4-Trichlorobenzene	3333	0	2435	73	38-107
4-Chloro-3-methylphenol	6666	0	6504	98	26-103
Acenaphthene	3333	0	2997	90	31-137
4-Nitrophenol	6666	0	4706	71	11-114
2,4-Dinitrotoluene	3333	0	808	24*	28- 89
Pentachlorophenol	6666	0	3473	52	17-109
Pyrene	3333	0	2495	75	35-142

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC#	% RPD#	QC LIMITS RPD	QC LIMITS REC
Phenol	6666	5684	85	7	35	26- 90
2-Chlorophenol	6666	5509	83	10	50	25-102
1,4-Dichlorobenzene	3333	2180	65	9	27	28-104
N-Nitroso-di-n-prop.(1)	3333	3540	106	8	38	41-126
1,2,4-Trichlorobenzene	3333	2417	73	1	23	38-107
4-Chloro-3-methylphenol	6666	6006	90	8	33	26-103
Acenaphthene	3333	2829	85	6	19	31-137
4-Nitrophenol	6666	4528	68	4	50	11-114
2,4-Dinitrotoluene	3333	954	29	16	47	28- 89
Pentachlorophenol	6666	3360	50	3	47	17-109
Pyrene	3333	2397	72	4	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: 2 of 22 outside limits

COMMENTS:

216

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER		MATRIX	Aqueous
SAMPLE NUMBER	SBLK69	DILUTION FACTOR	1
DATA FILE	>B7559	DATE EXTRACTED	12/06/94
CLIENT NAME		DATE ANALYZED	12/09/94
FIELD ID		ANALYZED BY	PAUL

MB-1

CAS #	COMPOUND	UG/L	MDL	CAS #	COMPOUND	UG/L	MDL
108952	Phenol	U	10	59507	4-Chloro-3-methylphenol	U	10
95578	2-Chlorophenol	U	10	88062	2,4,6-Trichlorophenol	U	10
95487	2-Methylphenol	U	10	95954	2,4,5-Trichlorophenol	U	50
108394	3&4-Methylphenol	U	10	51285	2,4-Dinitrophenol	U	50
88755	2-Nitrophenol	U	10	100027	4-Nitrophenol	U	50
105679	2,4-Dimethylphenol	U	10	534521	4,6-Dinitro-2-methylphenol	U	50
120832	2,4-Dichlorophenol	U	10	87865	Pentachlorophenol	U	50
111444	bis(-2-Chloroethyl)Ether	U	10	121142	2,4-Dinitrotoluene	U	10
541731	1,3-Dichlorobenzene	U	10	84662	Diethylphthalate	U	10
106467	1,4-Dichlorobenzene	U	10	7005723	4-Chlorophenyl-phenylether	U	10
100516	Benzyl Alcohol	U	10	86737	Fluorene	U	10
95501	1,2-Dichlorobenzene	U	10	100016	4-Nitroaniline	U	50
108601	bis(2-Chloroisopropyl)ether	U	10	86306	N-Nitrosodiphenylamine	U	10
621647	N-Nitroso-Di-n-propylamine	U	10	101553	4-Bromophenyl-phenylether	U	10
67721	Hexachloroethane	U	10	118741	Hexachlorobenzene	U	10
98953	Nitrobenzene	U	10	85018	Phenanthrene	U	10
78591	Isophorone	U	10	120127	Anthracene	U	10
65850	Benzoic Acid	U	50	84742	Di-n-Butylphthalate	U	10
111911	bis(-2-Chloroethoxy)Methane	U	10	206440	Fluoranthene	U	10
120821	1,2,4-Trichlorobenzene	U	10	129000	Pyrene	U	10
91203	Naphthalene	U	10	85687	Butylbenzylphthalate	U	10
106478	4-Chloroaniline	U	10	91941	3,3'-Dichlorobenzidine	U	20
87683	Hexachlorobutadiene	U	10	56553	Benzo(a)Anthracene	U	10
91576	2-Methylnaphthalene	U	10	117817	Bis(2-Ethylhexyl)Phthalate	U	10
77474	Hexachlorocyclopentadiene	U	10	218019	Chrysene	U	10
91587	2-Chloronaphthalene	U	10	117840	Di-n-octyl phthalate	U	10
88744	2-Nitroaniline	U	50	205992	Benzo(b)fluoranthene	U	10
131113	Dimethyl Phthalate	U	10	207089	Benzo(k)Fluoranthene	U	10
208968	Acenaphthylene	U	10	50328	Benzo(a)Pyrene	U	10
99092	3-Nitroaniline	U	50	193395	Indeno(1,2,3-cd)Pyrene	U	10
83329	Acenaphthene	U	10	53703	Dibenzo(a,h)Anthracene	U	10
132649	Dibenzofuran	U	10	191242	Benzo(g,h,i)Perylene	U	10
606202	2,6-Dinitrotoluene	U	10				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	63 %	35-114	OK
2-Fluorobiphenyl	75 %	43-116	OK
Terphenyl-d14	47 %	33-141	OK
Phenol-d5	27 %	10- 94	OK
2-Fluorophenol	35 %	21-100	OK
2,4,6-Tribromophenol	43 %	10-123	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates compound found in associated blank.
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

217

QUANT REPORT

Operator ID: PAUL
Output File: ^B7559::ME
Data File: >B7559::G1
Name: SBLK69
Misc: 12/06/94

Quant Rev: 7
Quant Time: 941209 17:17
Injected at: 941209 16:39
Dilution Factor: 1.00000
Instrument ID: HP5970BB
BTL# 2

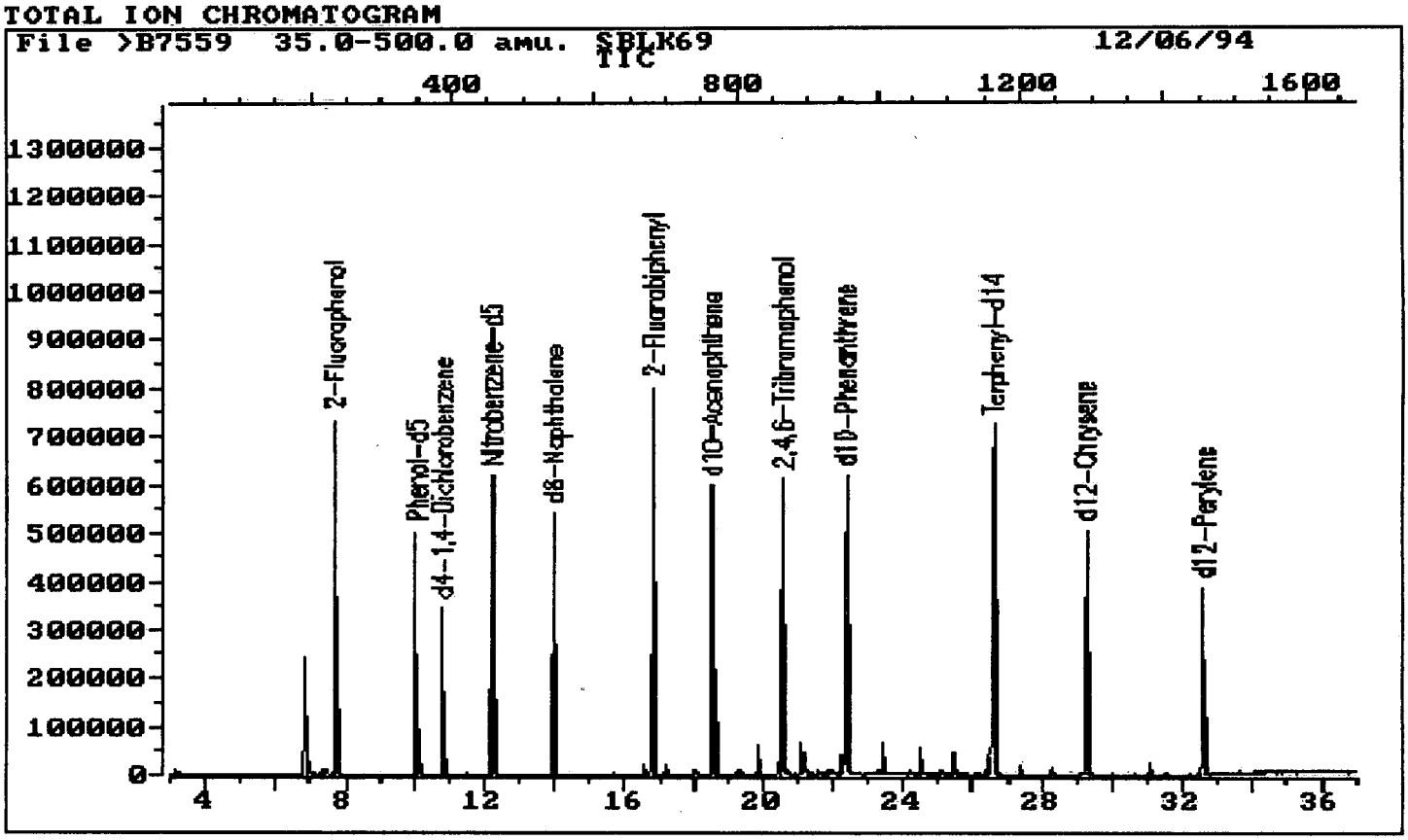
ID File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13
Last Qcal Time: 941209 14:03

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	10.77	384	132978	40.00	ug/l	97
4)	2-Fluorophenol	7.68	232	410216	70.04	ug/l	100
6)	Phenol-d5	10.04	348	425463	53.93	ug/l	79
19)	*d8-Naphthalene	13.96	541	543682	40.00	ug/l	99
20)	Nitrobenzene-d5	12.19	454	519840	62.54	ug/l	95
34)	*d10-Acenaphthene	18.50	764	366660	40.00	ug/l	88
39)	2-Fluorobiphenyl	16.83	682	745967	74.93	ug/l	96
54)	2,4,6-Tribromophenol	20.55	865	289054	86.37	ug/l	99
55)	*d10-Phenanthrene	22.34	953	707100	40.00	ug/l	100
67)	*d12-Chrysene	29.18	1289	526552	40.00	ug/l	100
70)	Terphenyl-d14	26.58	1161	1039554	47.10	ug/l	92
76)	*d12-Perylene	32.58	1456	447775	40.00	ug/l	100

* Compound is ISTD

348

TOTAL ION CHROMATOGRAM



Data File: >B7559 Quant Output File: ^B7559::ME
Name: SBLK69 Instrument ID: HP5970BB
Misc: 12/06/94 BTL# 2

Id File: IDB58::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941202 14:13 Last Qcal Time: 941209 14:03

Operator ID: PAUL
Quant Time : 941209 17:17
Injected at: 941209 16:39

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	SBLK76	DILUTION FACTOR	1
DATA FILE	>F9272	DATE EXTRACTED	12/13/94
CLIENT NAME		DATE ANALYZED	12/19/94
FIELD ID		ANALYZED BY	PAUL

MB-2

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	330	59507	4-Chloro-3-methylphenol	U	330
95578	2-Chlorophenol	U	330	88062	2,4,6-Trichlorophenol	U	330
95487	2-Methylphenol	U	330	95954	2,4,5-Trichlorophenol	U	1700
108394	3&4-Methylphenol	U	330	51285	2,4-Dinitrophenol	U	1700
88755	2-Nitrophenol	U	330	100027	4-Nitrophenol	U	1700
105679	2,4-Dimethylphenol	U	330	534521	4,6-Dinitro-2-methylphenol	U	1700
120832	2,4-Dichlorophenol	U	330	87865	Pentachlorophenol	U	1700
111444	bis(-2-Chloroethyl)Ether	U	330	121142	2,4-Dinitrotoluene	U	330
541731	1,3-Dichlorobenzene	U	330	84662	Diethylphthalate	U	330
106467	1,4-Dichlorobenzene	U	330	7005723	4-Chlorophenyl-phenylether	U	330
100516	Benzyl Alcohol	U	330	86737	Fluorene	U	330
95501	1,2-Dichlorobenzene	U	330	100016	4-Nitroaniline	U	1700
108601	bis(2-Chloroisopropyl)ether	U	330	86306	N-Nitrosodiphenylamine	U	330
621647	N-Nitroso-Di-n-propylamine	U	330	101553	4-Bromophenyl-phenylether	U	330
67721	Hexachloroethane	U	330	118741	Hexachlorobenzene	U	330
98953	Nitrobenzene	U	330	85018	Phenanthrene	U	330
78591	Isophorone	U	330	120127	Anthracene	U	330
65850	Benzoic Acid	U	1700	84742	Di-n-Butylphthalate	U	330
111911	bis(-2-Chloroethoxy)Methane	U	330	206440	Fluoranthene	U	330
120821	1,2,4-Trichlorobenzene	U	330	129000	Pyrene	U	330
91203	Naphthalene	U	330	85687	Butylbenzylphthalate	U	330
106478	4-Chloroaniline	U	330	91941	3,3'-Dichlorobenzidine	U	670
87683	Hexachlorobutadiene	U	330	56553	Benzo(a)Anthracene	U	330
91576	2-Methylnaphthalene	U	330	117817	Bis(2-Ethylhexyl)Phthalate	U	330
77474	Hexachlorocyclopentadiene	U	330	218019	Chrysene	U	330
91587	2-Chloronaphthalene	U	330	117840	Di-n-octyl phthalate	U	330
88744	2-Nitroaniline	U	1700	205992	Benzo(b)fluoranthene	U	330
131113	Dimethyl Phthalate	U	330	207089	Benzo(k)Fluoranthene	U	330
208968	Acenaphthylene	U	330	50328	Benzo(a)Pyrene	U	330
99092	3-Nitroaniline	U	1700	193395	Indeno(1,2,3-cd)Pyrene	U	330
83329	Acenaphthene	U	330	53703	Dibenzo(a,h)Anthracene	U	330
132649	Dibenzofuran	U	330	191242	Benzo(g,h,i)Perylene	U	330
606202	2,6-Dinitrotoluene	U	330				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	85 %	23-120	OK
2-Fluorobiphenyl	77 %	30-115	OK
Terphenyl-d14	71 %	18-137	OK
Phenol-d5	106 %	24-113	OK
2-Fluorophenol	94 %	25-121	OK
2,4,6-Tribromophenol	72 %	19-122	OK

Percent solid of 100 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.

218

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

Operator ID: PAUL
Output File: ^F9272::QT
Data File: >F9272::F2
Name: SBLK76
Misc: 12/13/94

Quant Rev: 7
Quant Time: 941219 14:28
Injected at: 941219 13:48
Dilution Factor: 1.00000
Instrument ID: HP5970BF
BTL#25

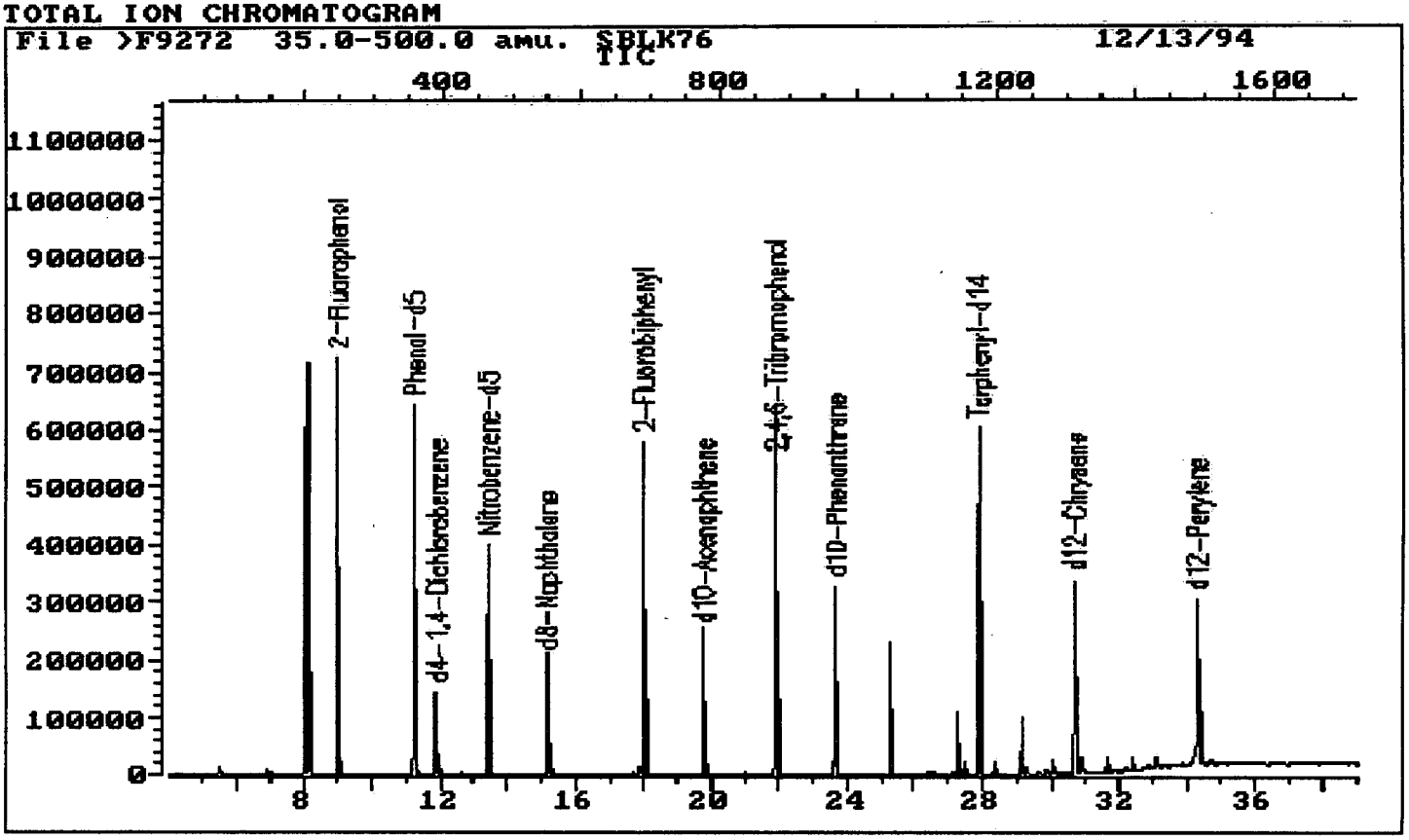
ID File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39
Last Qcal Time: 941219 12:50

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.90	388	56445	40.00	ug/l	95
4)	2-Fluorophenol	8.95	243	332370	188.09	ug/l	100
6)	Phenol-d5	11.23	355	394123M	212.97	ug/l	
19)	*d8-Naphthalene	15.13	547	229694	40.00	ug/l	86
20)	Nitrobenzene-d5	13.38	461	253280M	85.42	ug/l	
34)	*d10-Acenaphthene	19.77	775	165201	40.00	ug/l	96
39)	2-Fluorobiphenyl	18.00	688	405772	77.24	ug/l	95
54)	2,4,6-Tribromophenol	21.89	879	288720	144.63	ug/l	98
55)	*d10-Phenanthrene	23.66	966	337371	40.00	ug/l	100
67)	*d12-Chrysene	30.67	1311	425116	40.00	ug/l	100
70)	Terphenyl-d14	27.87	1173	786816	71.16	ug/l	85
76)	*d12-Perylene	34.28	1488	515314	40.00	ug/l	100

* Compound is ISTD

350

TOTAL ION CHROMATOGRAM



Data File: >F9272::F2 Quant Output File: ^F9272::QT
Name: SBLK76 Instrument ID: HP5970BF
Misc: 12/13/94 BTL#25

Id File: IDF77::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941219 12:39 Last Qcal Time: 941219 12:50

Operator ID: PAUL
Quant Time : 941219 14:28
Injected at: 941219 13:48

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSYS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	SBLK77	DILUTION FACTOR	10
DATA FILE	>F9317	DATE EXTRACTED	12/13/94
CLIENT NAME		DATE ANALYZED	12/20/94
FIELD ID		ANALYZED BY	PAUL

MB-3

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
108952	Phenol	U	3300	59507	4-Chloro-3-methylphenol	U	3300
95578	2-Chlorophenol	U	3300	88062	2,4,6-Trichlorophenol	U	3300
95487	2-Methylphenol	U	3300	95954	2,4,5-Trichlorophenol	U	17000
108394	3&4-Methylphenol	U	3300	51285	2,4-Dinitrophenol	U	17000
88755	2-Nitrophenol	U	3300	100027	4-Nitrophenol	U	17000
105679	2,4-Dimethylphenol	U	3300	534521	4,6-Dinitro-2-methylphenol	U	17000
120832	2,4-Dichlorophenol	U	3300	87865	Pentachlorophenol	U	17000
111444	bis(-2-Chloroethyl)Ether	U	3300	121142	2,4-Dinitrotoluene	U	3300
541731	1,3-Dichlorobenzene	U	3300	84662	Diethylphthalate	U	3300
106467	1,4-Dichlorobenzene	U	3300	7005723	4-Chlorophenyl-phenylether	U	3300
100516	Benzyl Alcohol	U	3300	86737	Fluorene	U	3300
95501	1,2-Dichlorobenzene	U	3300	100016	4-Nitroaniline	U	17000
108601	bis(2-Chloroisopropyl)ether	U	3300	86306	N-Nitrosodiphenylamine	U	3300
621647	N-Nitroso-Di-n-propylamine	U	3300	101553	4-Bromophenyl-phenylether	U	3300
67721	Hexachloroethane	U	3300	118741	Hexachlorobenzene	U	3300
98953	Nitrobenzene	U	3300	85018	Phenanthrene	U	3300
78591	Isophorone	U	3300	120127	Anthracene	U	3300
65850	Benzoic Acid	U	17000	84742	Di-n-Butylphthalate	U	3300
111911	bis(-2-Chloroethoxy)Methane	U	3300	206440	Fluoranthene	U	3300
120821	1,2,4-Trichlorobenzene	U	3300	129000	Pyrene	U	3300
91203	Naphthalene	U	3300	85687	Butylbenzylphthalate	U	3300
106478	4-Chloroaniline	U	3300	91941	3,3'-Dichlorobenzidine	U	6700
87683	Hexachlorobutadiene	U	3300	56553	Benzo(a)Anthracene	U	3300
91576	2-Methylnaphthalene	U	3300	117817	Bis(2-Ethylhexyl)Phthalate	U	3300
77474	Hexachlorocyclopentadiene	U	3300	218019	Chrysene	U	3300
91587	2-Chloronaphthalene	U	3300	117840	Di-n-octyl phthalate	U	3300
88744	2-Nitroaniline	U	17000	205992	Benzo(b)fluoranthene	U	3300
131113	Dimethyl Phthalate	U	3300	207089	Benzo(k)Fluoranthene	U	3300
208968	Acenaphthylene	U	3300	50328	Benzo(a)Pyrene	U	3300
99092	3-Nitroaniline	U	17000	193395	Indeno(1,2,3-cd)Pyrene	U	3300
83329	Acenaphthene	U	3300	53703	Dibenzo(a,h)Anthracene	U	3300
132649	Dibenzofuran	U	3300	191242	Benzo(g,h,i)Perylene	U	3300
606202	2,6-Dinitrotoluene	U	3300				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	94 %	23-120	OK
2-Fluorobiphenyl	115 %	30-115	OK
Terphenyl-d14	109 %	18-137	OK
Phenol-d5	112 %	24-113	OK
2-Fluorophenol	100 %	25-121	OK
2,4,6-Tribromophenol	96 %	19-122	OK

Percent solid of 100 is used for all target compounds.

R - Result exceeds residential surface soil standards.*
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.

219

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

QUANT REPORT

Operator ID: PAUL
Output File: ^F9317::QT
Data File: >F9317::F2
Name: SBLK77
Misc: 12/13/94

Quant Rev: 7
Quant Time: 941228 14:30
Injected at: 941220 23:03
Dilution Factor: 1.00000
Instrument ID: HP5970BF
BTL# 7

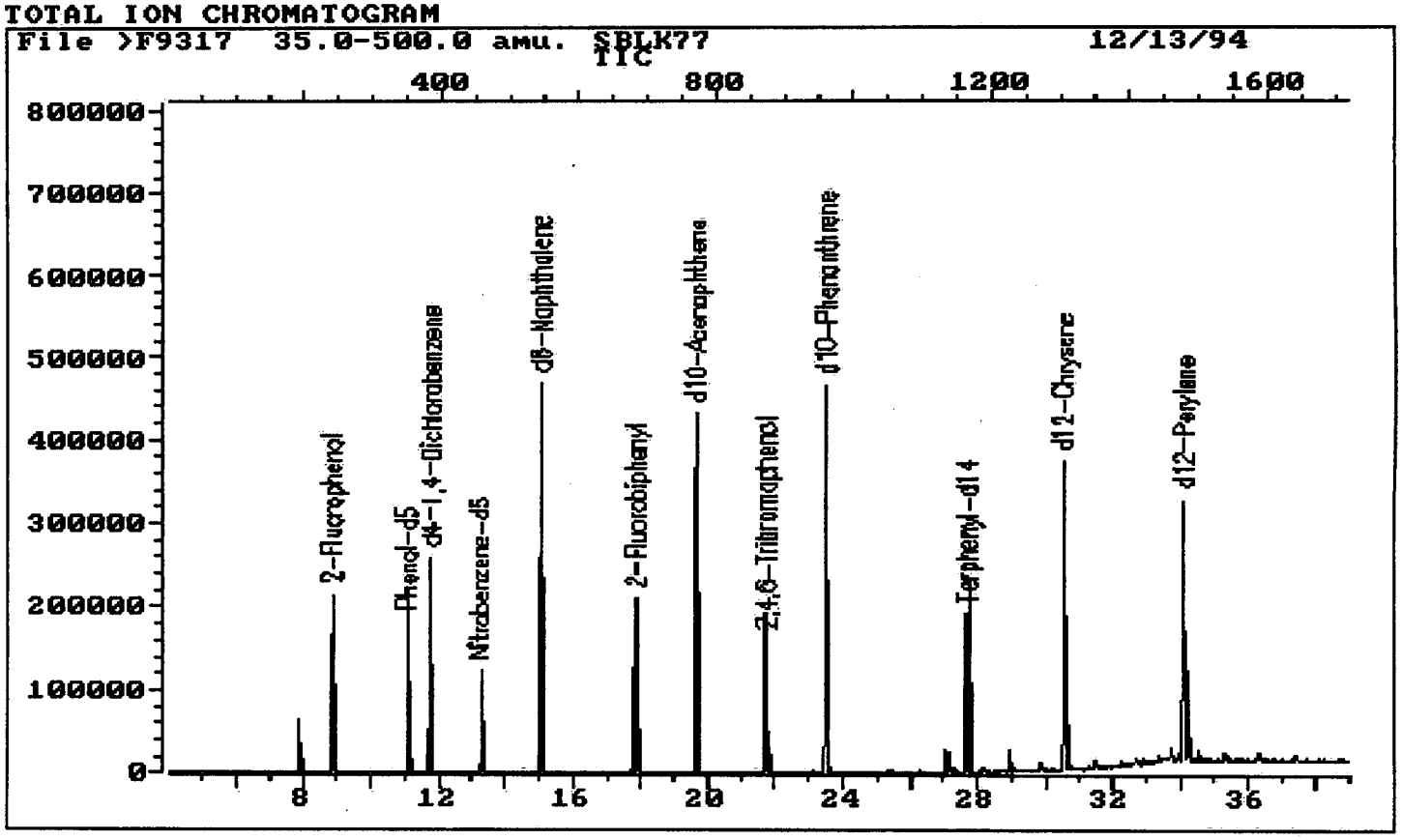
ID File: IDF78::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941221 09:31
Last Qcal Time: 941220 20:35

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	*d4-1,4-Dichlorobenzene	11.74	381	83418	40.00	ug/l	94
4)	2-Fluorophenol	8.81	237	106277	20.04	ug/l	100
6)	Phenol-d5	11.05	347	125605M	22.50	ug/l	80
19)	*d8-Naphthalene	15.00	541	371410	40.00	ug/l	78
20)	Nitrobenzene-d5	13.21	453	87429	9.37	ug/l	81
34)	*d10-Acenaphthene	19.63	769	233302	40.00	ug/l	96
39)	2-Fluorobiphenyl	17.84	681	123672M	11.48	ug/l	93
54)	2,4,6-Tribromophenol	21.71	871	63216	19.13	ug/l	98
55)	*d10-Phenanthrene	23.50	959	422977	40.00	ug/l	100
67)	*d12-Chrysene	30.49	1303	450593	40.00	ug/l	100
70)	Terphenyl-d14	27.66	1164	211129	10.94	ug/l	87
76)	*d12-Perylene	34.08	1479	534577	40.00	ug/l	100

* Compound is ISTD

352

TOTAL ION CHROMATOGRAM



Data File: >F9317::F2 Quant Output File: ^F9317::QT
Name: SBLK77 Instrument ID: HP5970BF
Misc: 12/13/94 BTL# 7

Id File: IDF78::SC
Title: Accredited Laboratories Base/Neutral/Acid Identity File
Last Calibration: 941221 09:31 Last Qcal Time: 941220 20:35

Operator ID: PAUL
Quant Time : 941228 14:30
Injected at: 941220 23:03

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK69

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: 1 SAS No.: SDG No.:

Lab File ID: >B7559 Lab Sample ID: SBLK69

Instrument ID: HP5970BB Date Extracted: 12/06/94

Matrix: (soil/water) WATER Date Analyzed: 12/09/94

Level: (low/med) LOW Time Analyzed: 16:39

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		9417643	>B7560	12/09/94
02		9417667	>B7563	12/09/94
03		9417643MS	>B7561	12/09/94
04		9417643MSD	>B7562	12/09/94
05				
06				
07				
08				
09				
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COMMENTS:

FORM IV SV

3/90

220

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK76

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: 1 SAS No.: SDG No.:

Lab File ID: >F9272 Lab Sample ID: SBLK76

Instrument ID: HP5970BF Date Extracted: 12/13/94

Matrix: (soil/water) SOIL Date Analyzed: 12/19/94

Level: (low/med) LOW Time Analyzed: 13:48

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		9417644	>F9256	12/16/94
02		9417645	>F9257	12/16/94
03		9417646	>F9258	12/16/94
04		9417647	>F9259	12/16/94
05		9417648	>F9260	12/16/94
06		9417649	>F9261	12/16/94
07		9417650	>F9262	12/16/94
08		9417651	>F9263	12/17/94
09		9417652	>F9264	12/17/94
10		9417653	>F9265	12/17/94
11		9417654	>B7868	12/24/94
12		9417655	>B7869	12/24/94
13		9417656	>B7870	12/24/94
14		9417657	>B7871	12/24/94
15		9417658	>B7872	12/24/94
16		9417644MS	>B7643	12/14/94
17		9417644MSD	>B7644	12/14/94
18		9417652MS	>B7645	12/14/94
19		9417652MSD	>B7646	12/14/94
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK77

Lab Name: ACCREDITED LABS, INC. Contract:

Lab Code: Case No.: 1 SAS No.: SDG No.:

Lab File ID: >F9317 Lab Sample ID: SBLK77

Instrument ID: HP5970BF Date Extracted: 12/13/94

Matrix: (soil/water) WATER Date Analyzed: 12/20/94

Level: (low/med) LOW Time Analyzed: 23:03

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01		9417659	>B7873	12/24/94
02		9417660	>B7874	12/24/94
03		9417661	>B7875	12/24/94
04		9417662	>B7876	12/24/94
05		9417663	>B7877	12/24/94
06		9417664	>B7878	12/24/94
07		9417665	>B7879	12/24/94
08		9417666	>B7880	12/24/94
09		9417661MS	>B7752	12/20/94
10		9417661MSD	>B7753	12/20/94
11				
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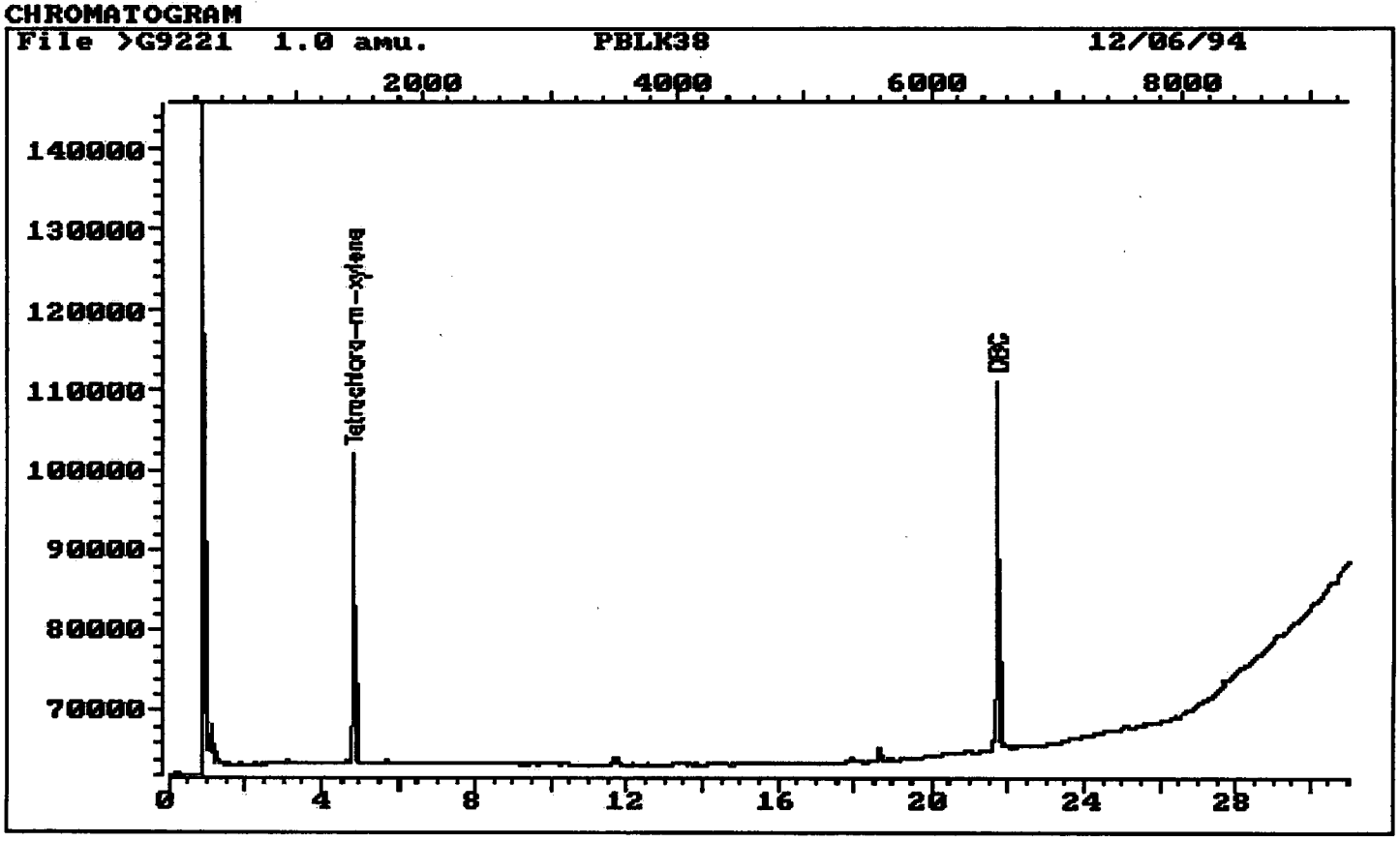
COMMENTS:

FORM IV SV 3/90

222

CHROMATOGRAM



Data File: >G9221::G1 Quant Output File: ^G9221::QT
Name: PBLK38 Instrument ID: G
Misc: 12/06/94

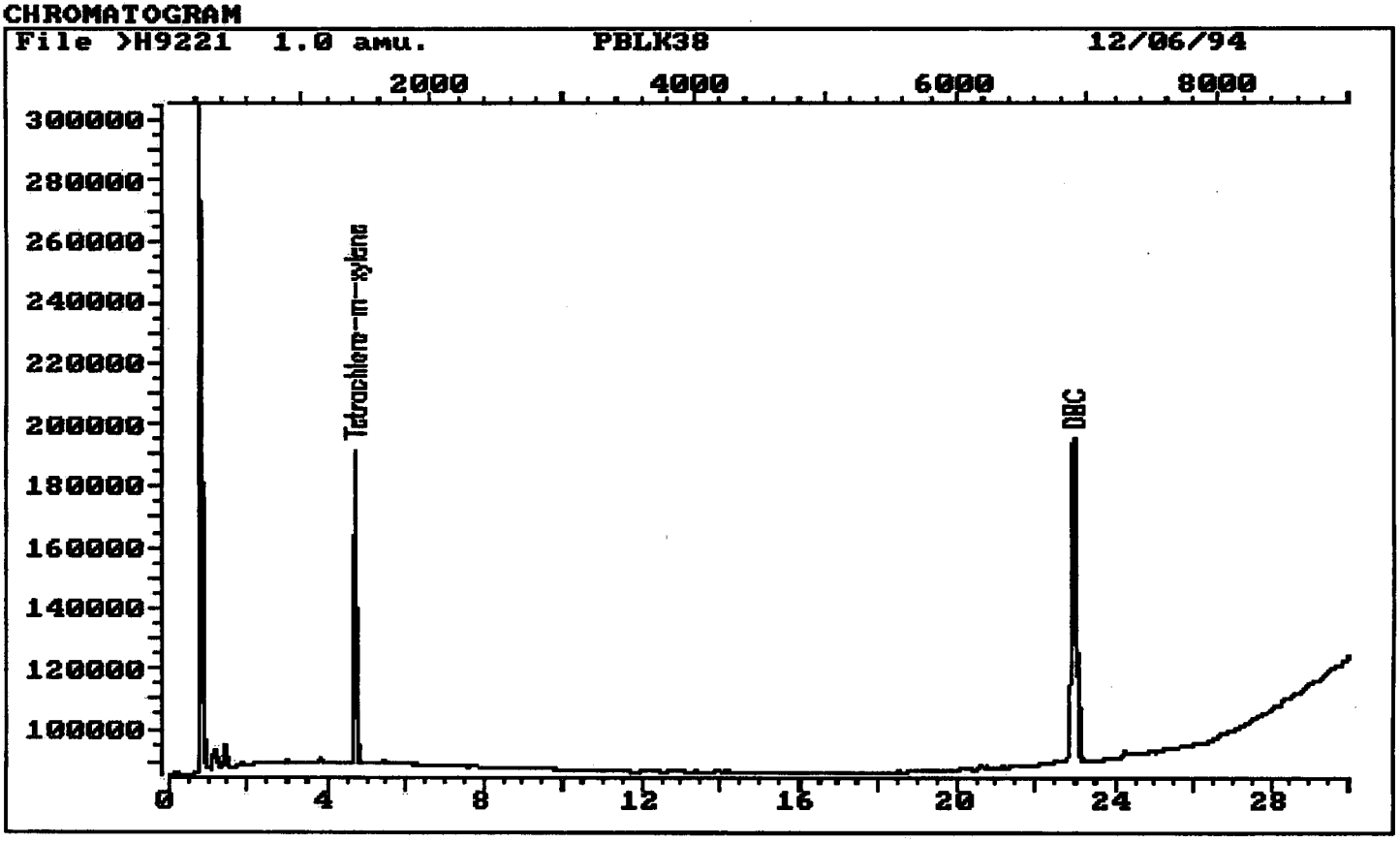
Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941030 12:14 Last Qcal Time: 941215 11:40

Operator ID: DANIEL
Quant Time : 941216 06:55
Injected at: 941215 19:01

Pest

418

CHROMATOGRAM



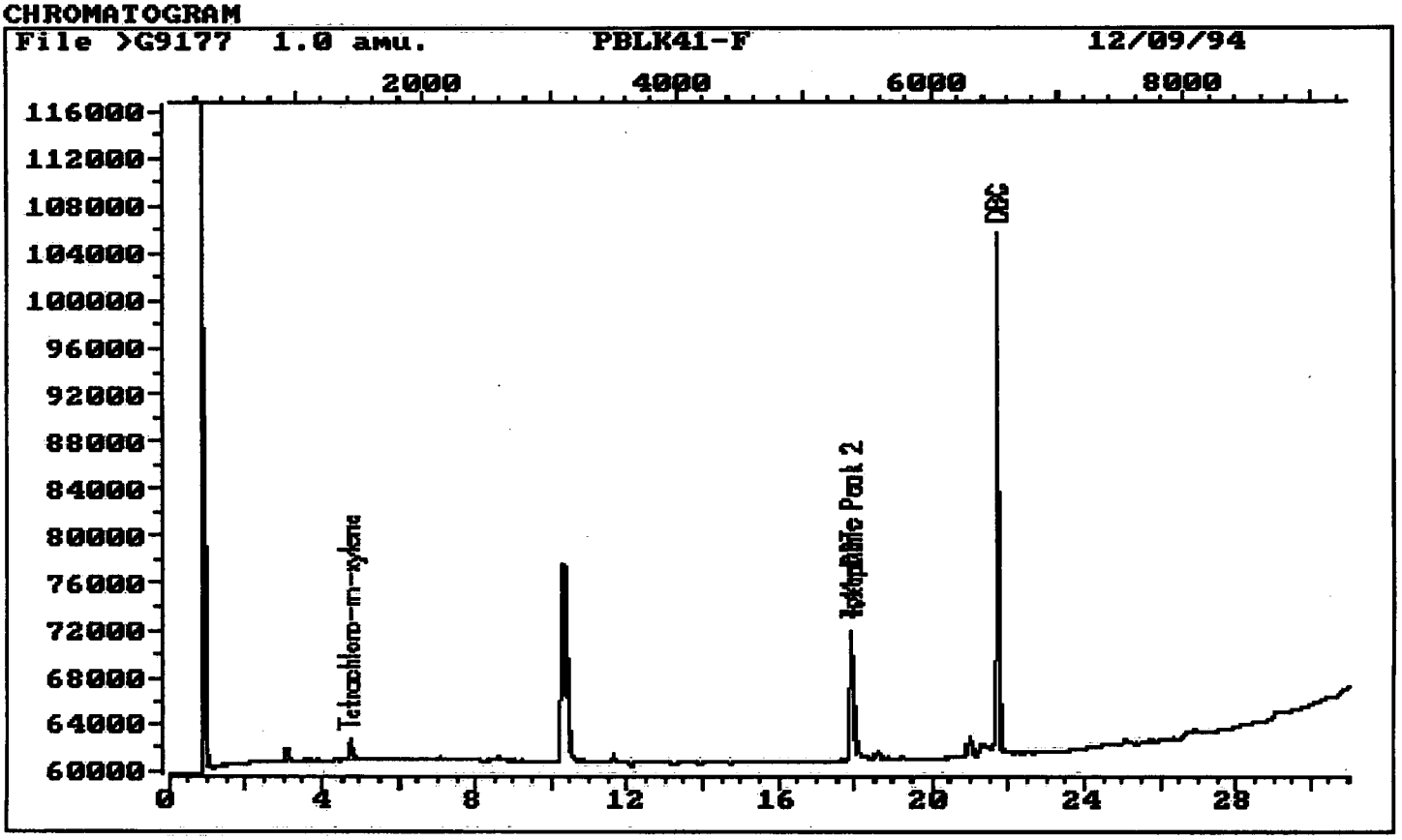
Data File: >H9221::G1 Quant Output File: ^H9221::QT
Name: PBLK38 Instrument ID: H
Misc: 12/06/94

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941215 12:17

Operator ID: DANIEL
Quant Time : 941215 20:11
Injected at: 941215 19:38

419

CHROMATOGRAM



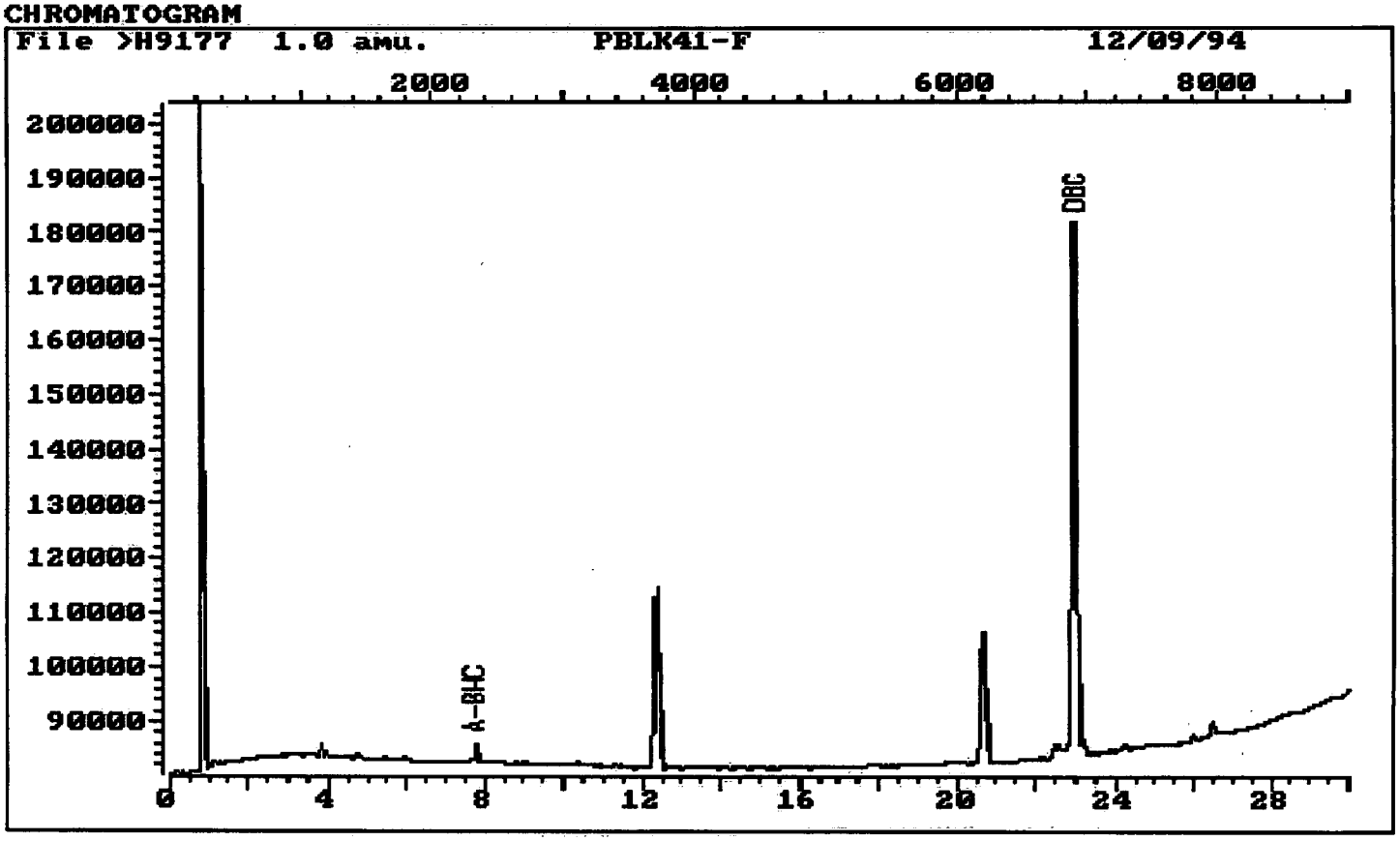
Data File: >G9177::G1 Quant Output File: ^G9177::QT
Name: PBLK41-F Instrument ID: G
Misc: 12/09/94

Id File: IDPP7::G4
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 18:32

Operator ID: DANIEL
Quant Time : 941213 11:48
Injected at: 941212 21:01

420

CHROMATOGRAM



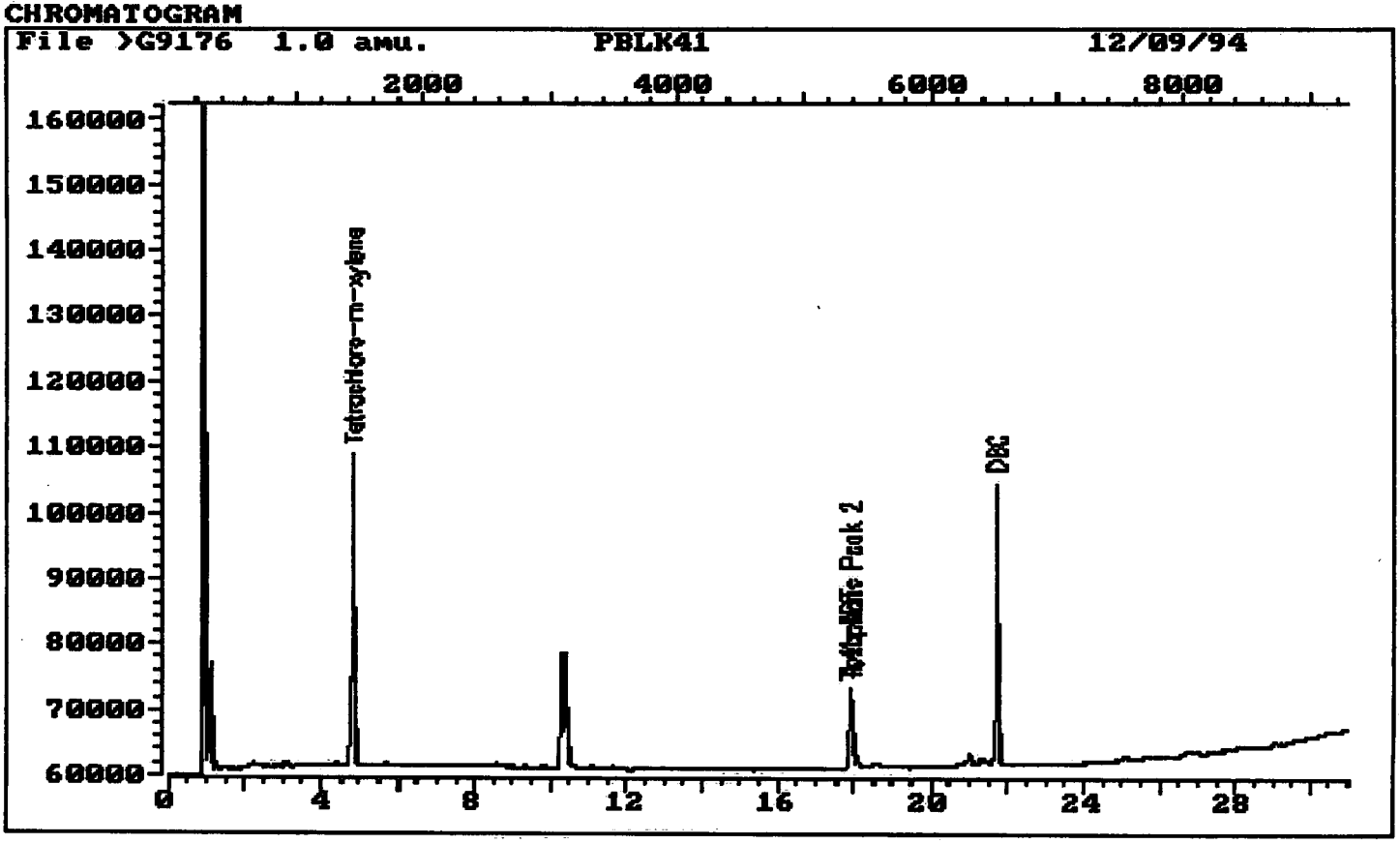
Data File: >H9177::G1 Quant Output File: ^H9177::QT
Name: PBLK41-F Instrument ID: H
Misc: 12/09/94

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 19:09

Operator ID: DANIEL
Quant Time : 941213 12:59
Injected at: 941212 21:38

421

CHROMATOGRAM



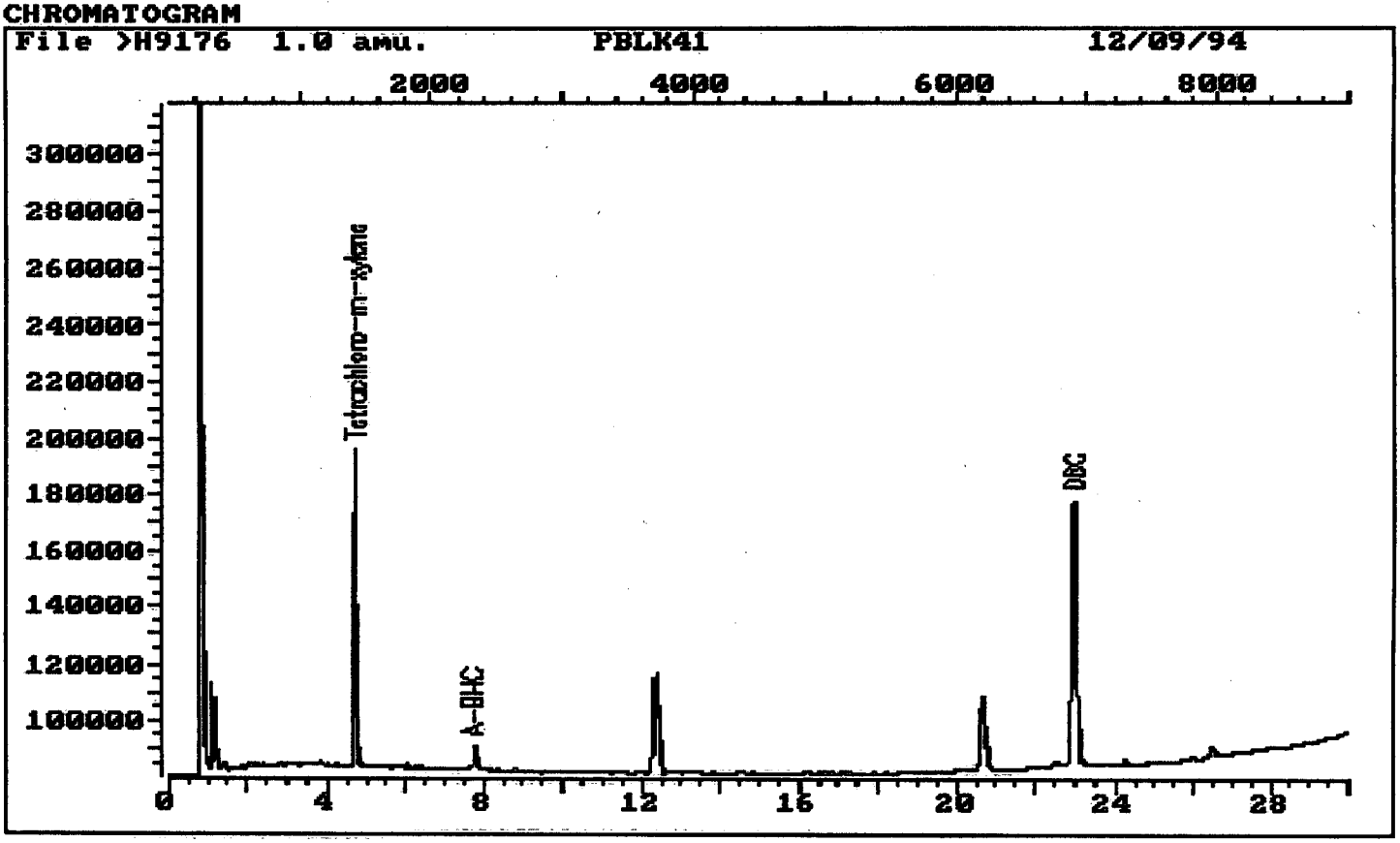
Data File: >G9176::G1 Quant Output File: ^G9176::QT
Name: PBLK41 Instrument ID: G
Misc: 12/09/94

Id File: IDPP7::G4
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 18:32

Operator ID: DANIEL
Quant Time : 941213 11:42
Injected at: 941212 20:23

422

CHROMATOGRAM



Data File: >H9176::G1 Quant Output File: ^H9176::QT
Name: PBLK41 Instrument ID: H
Misc: 12/09/94

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 19:09

Operator ID: DANIEL
Quant Time : 941213 12:58
Injected at: 941212 21:01

423

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Aqueous
SAMPLE NUMBER	9417643	DILUTION FACTOR	1
DATA FILE	>G9224	DATE EXTRACTED	12/06/94
CLIENT NAME	RFWI	DATE ANALYZED	12/15/94
FIELD ID	BB-FB-01	ANALYZED BY	DANIEL

COMPOUND	UG/L	MDL
A-BHC	U	.050
B-BHC	U	.050
Lindane	U	.050
D-BHC	U	.050
Heptachlor	U	.050
Aldrin	U	.050
Heptachlor Epoxide	U	.050
Endosulfan I	U	.050
A-Chlordane	U	.050
G-Chlordane	U	.050
Dieldrin	U	.100
4,4'-DDE	U	.100
Endrin	U	.100
Endosulfan II	U	.100
4,4'-DDD	U	.100
Endrin Aldehyde	U	.100
Endosulfan Sulfate	U	.100
4,4'-DDT	U	.100
Endrin Ketone	U	.100
Methoxychlor	U	.500
Toxaphene	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

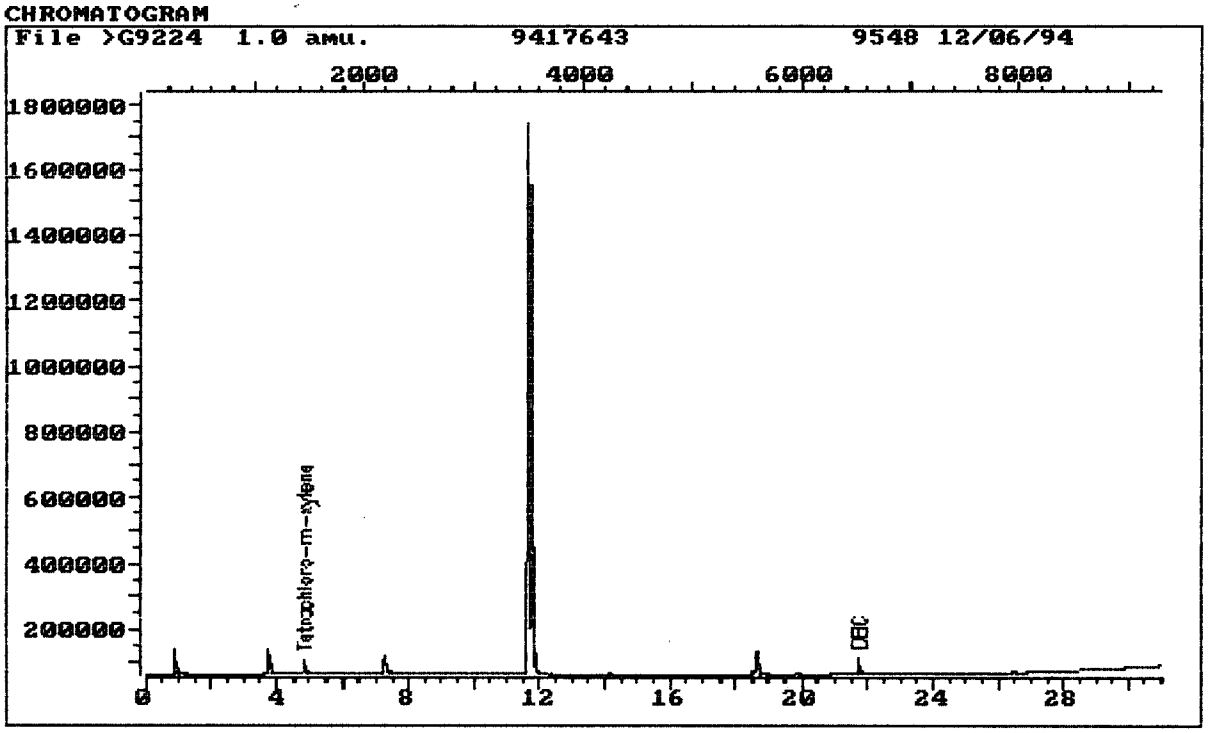
CASE NUMBER	9548	MATRIX	Aqueous
SAMPLE NUMBER	9417643	DILUTION FACTOR	1
DATA FILE	>G9224	DATE EXTRACTED	12/06/94
CLIENT NAME	RFWI	DATE ANALYZED	12/15/94
FIELD ID	BB-FB-01	ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/L	MDL
12674112	Aroclor-1016	U	1.00
11104282	Aroclor-1221	U	2.00
11141165	Aroclor-1232	U	1.00
53469219	Aroclor-1242	U	1.00
12672296	Aroclor-1248	U	1.00
11097691	Aroclor-1254	U	1.00
11096825	Aroclor-1260	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.

CHROMATOGRAM



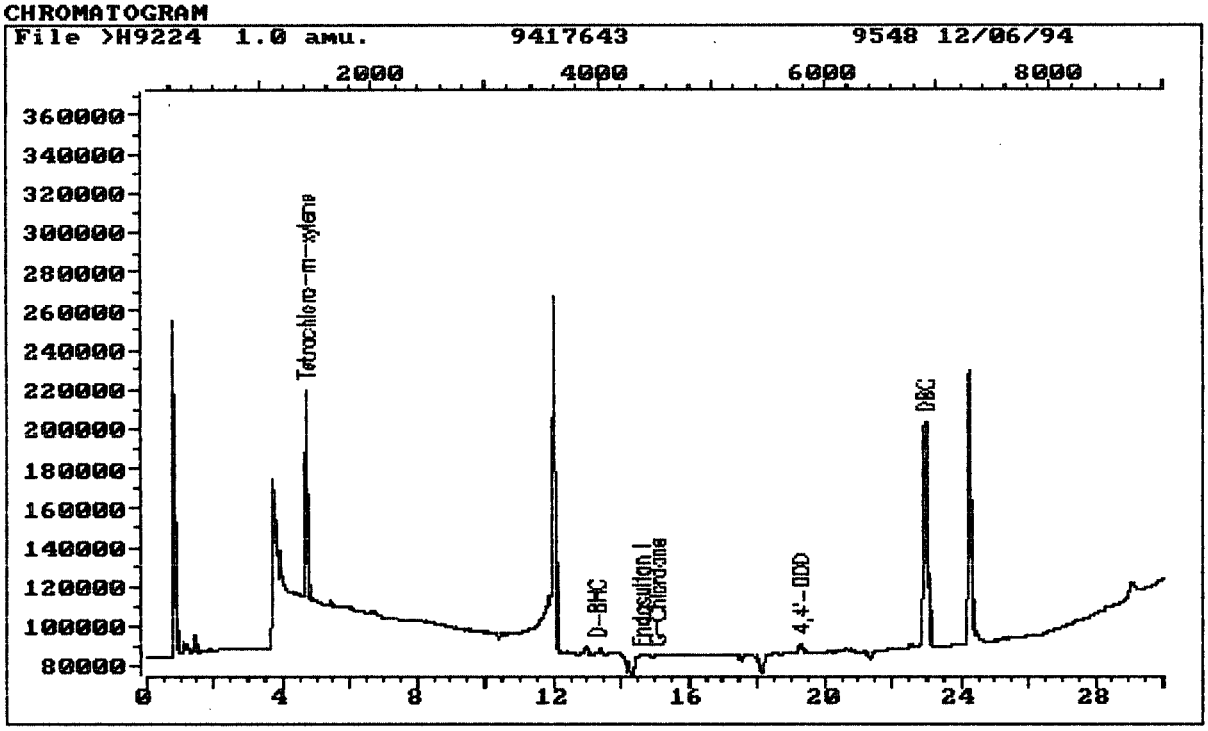
Data File: >G9224::G1 Quant Output File: ^G9224::QT
Name: 9417643 Instrument ID: G
Misc: 9548 12/06/94 RFWI BB-FB-01

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941215 11:40

Operator ID: DANIEL
Quant Time : 941216 07:02
Injected at: 941215 20:52

424

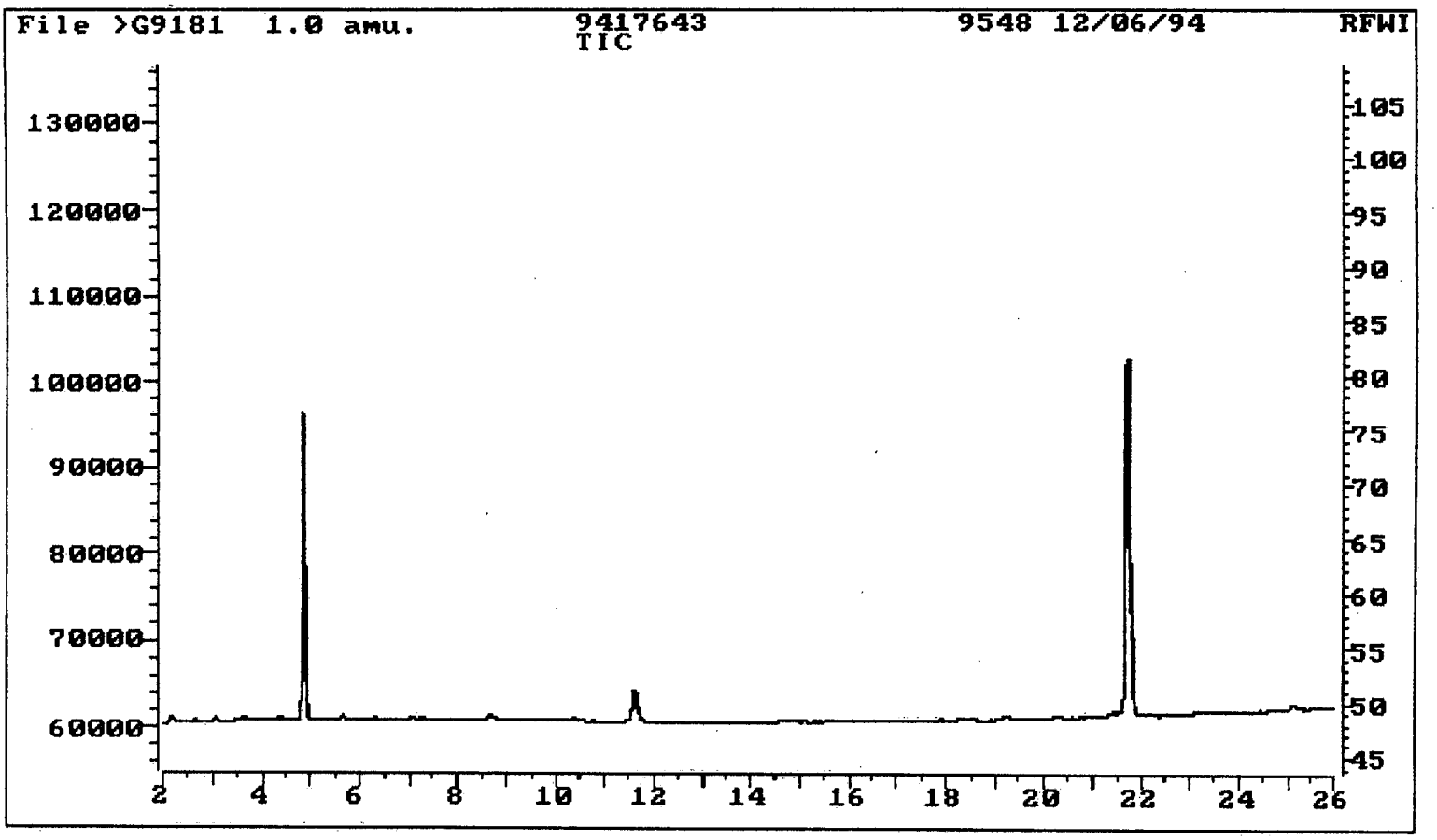
CHROMATOGRAM



Data File: >H9224::G1 Quant Output File: ^H9224::QT
Name: 9417643 Instrument ID: H
Misc: 9548 12/06/94 RFWI BB-FB-01

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941215 12:17

Operator ID: DANIEL
Quant Time : 941215 22:02
Injected at: 941215 21:29


File >G9181 1.0 amu.
9417643
TIC
9548 12/06/94
RFWI
130000
120000
110000
100000
90000
80000
70000
60000
105
100
95
90
85
80
75
70
65
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426

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417644	DILUTION FACTOR	1
DATA FILE	>G9190	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-SS-01	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	2.18
B-BHC	U	2.18
Lindane	U	2.18
D-BHC	U	2.18
Heptachlor	U	2.18
Aldrin	U	2.18
Heptachlor Epoxide	U	2.18
Endosulfan I	U	2.18
A-Chlordane	U	2.18
G-Chlordane	U	2.18
Dieldrin	U	4.35
4,4'-DDE	U	4.35
Endrin	U	4.35
Endosulfan II	U	4.35
4,4'-DDD	U	4.35
Endrin Aldehyde	U	4.35
Endosulfan Sulfate	U	4.35
4,4'-DDT	U	4.35
Endrin Ketone	U	4.35
Methoxychlor	U	21.8
Toxaphene	U	43.5

Percent Solid of 76.6 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417644DL 100	DILUTION FACTOR	100
DATA FILE	>G9290	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/20/94
FIELD ID	BB-SS-01	ANALYZED BY	DANIEL

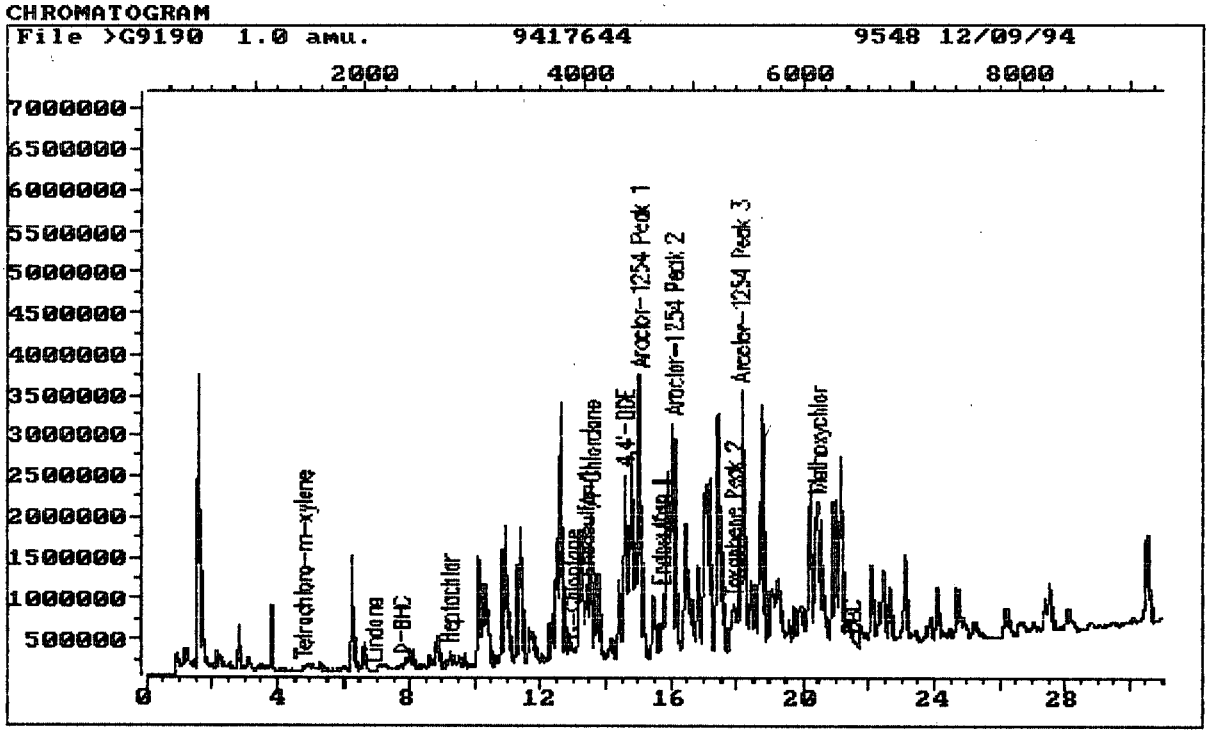
CAS#	COMPOUND	UG/KG		MDL
12674112	Aroclor-1016	U		4350
11104282	Aroclor-1221	U		8700
11141165	Aroclor-1232	U		4350
53469219	Aroclor-1242	U		4350
12672296	Aroclor-1248	U		4350
11097691	Aroclor-1254	96700	I	4350
11096825	Aroclor-1260	U		4350

Percent Solid of 76.6 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

CHROMATOGRAM



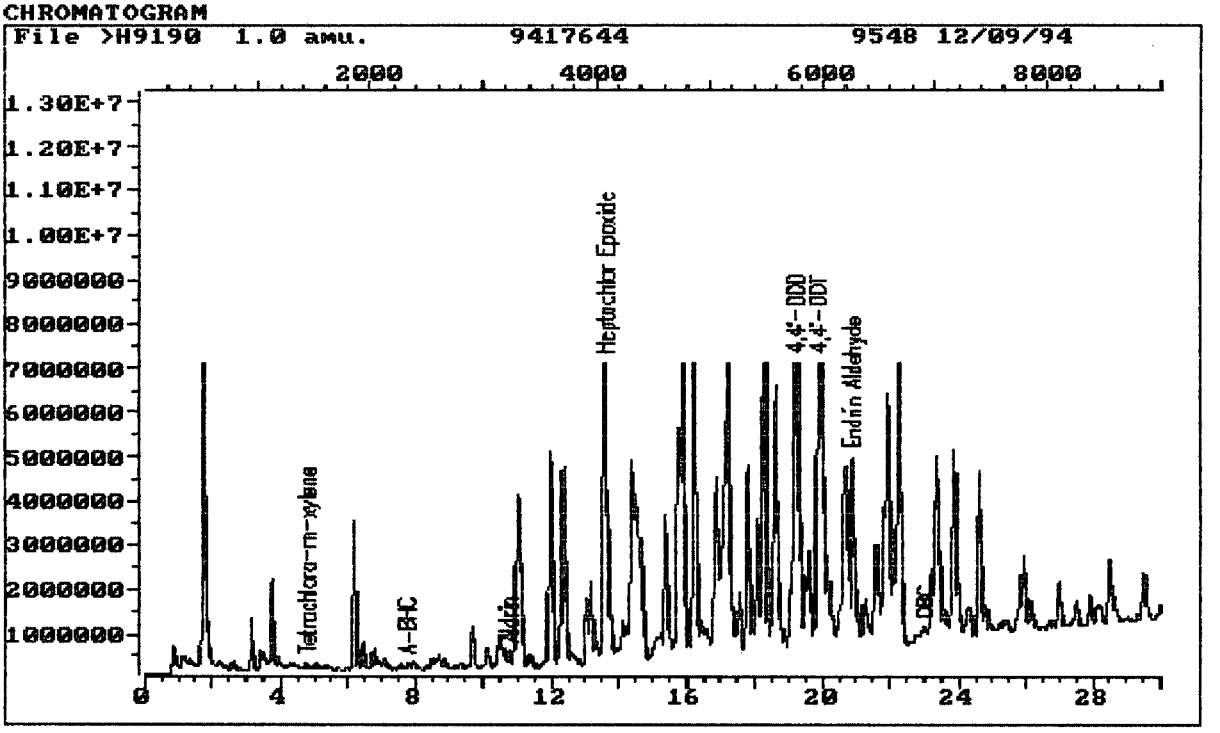
Data File: >G9190::G2 Quant Output File: ^G9190::QT
Name: 9417644 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-01

Id File: IDPP7::G4
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 18:32

Operator ID: DANIEL
Quant Time : 941213 12:35
Injected at: 941213 05:05

427

CHROMATOGRAM

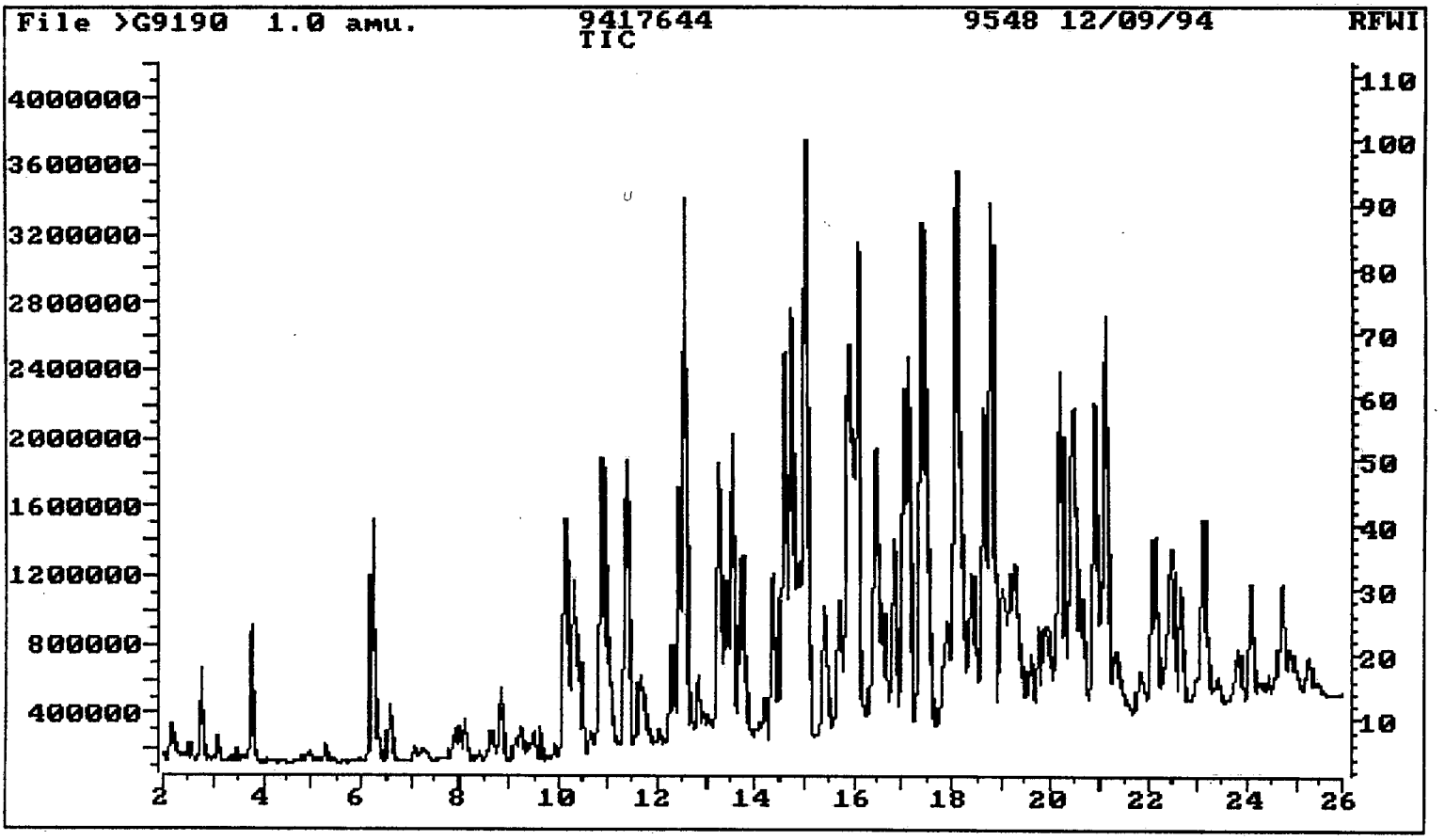


Data File: >H9190::G2 Quant Output File: ^H9190::QT
Name: 9417644 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-SS-01

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 19:09

Operator ID: DANIEL
Quant Time : 941213 13:16
Injected at: 941213 05:42

428


File >G9190 1.0 amu.
9417644
TIC
9548 12/09/94
RFWI
4000000
3600000
3200000
2800000
2400000
2000000
1600000
1200000
800000
400000
110
100
90
80
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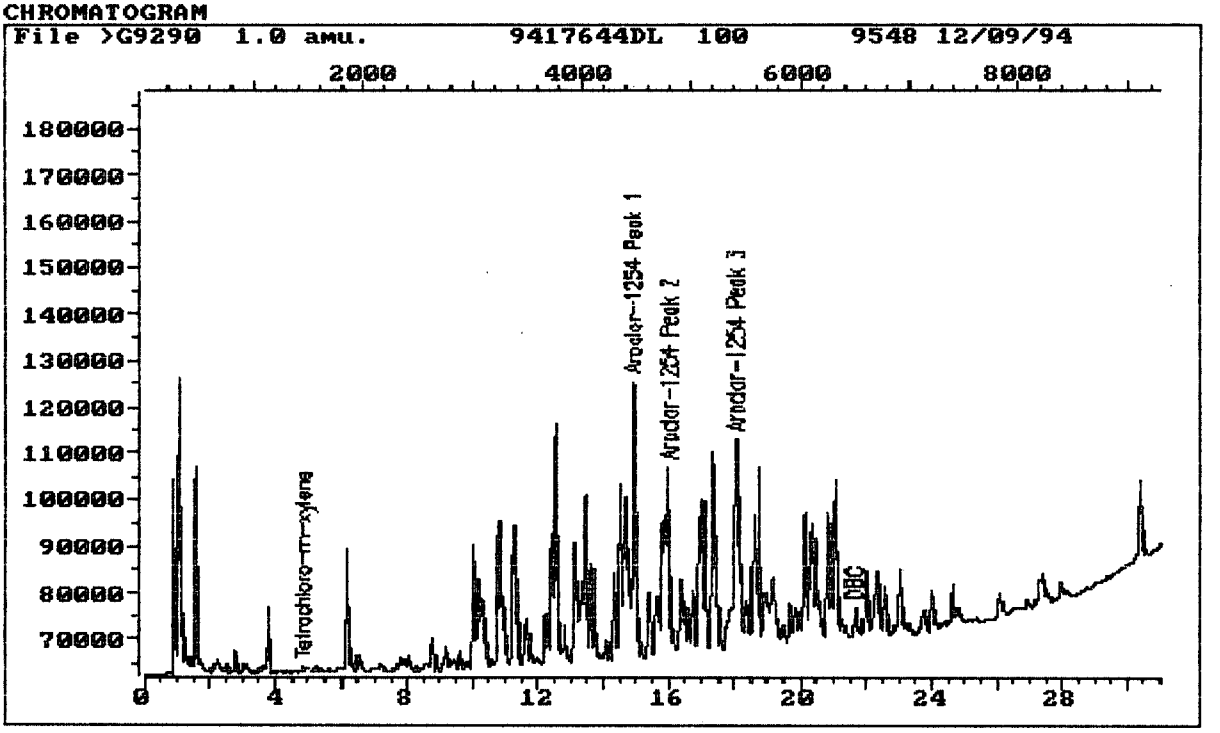
429

CHROMATOGRAM

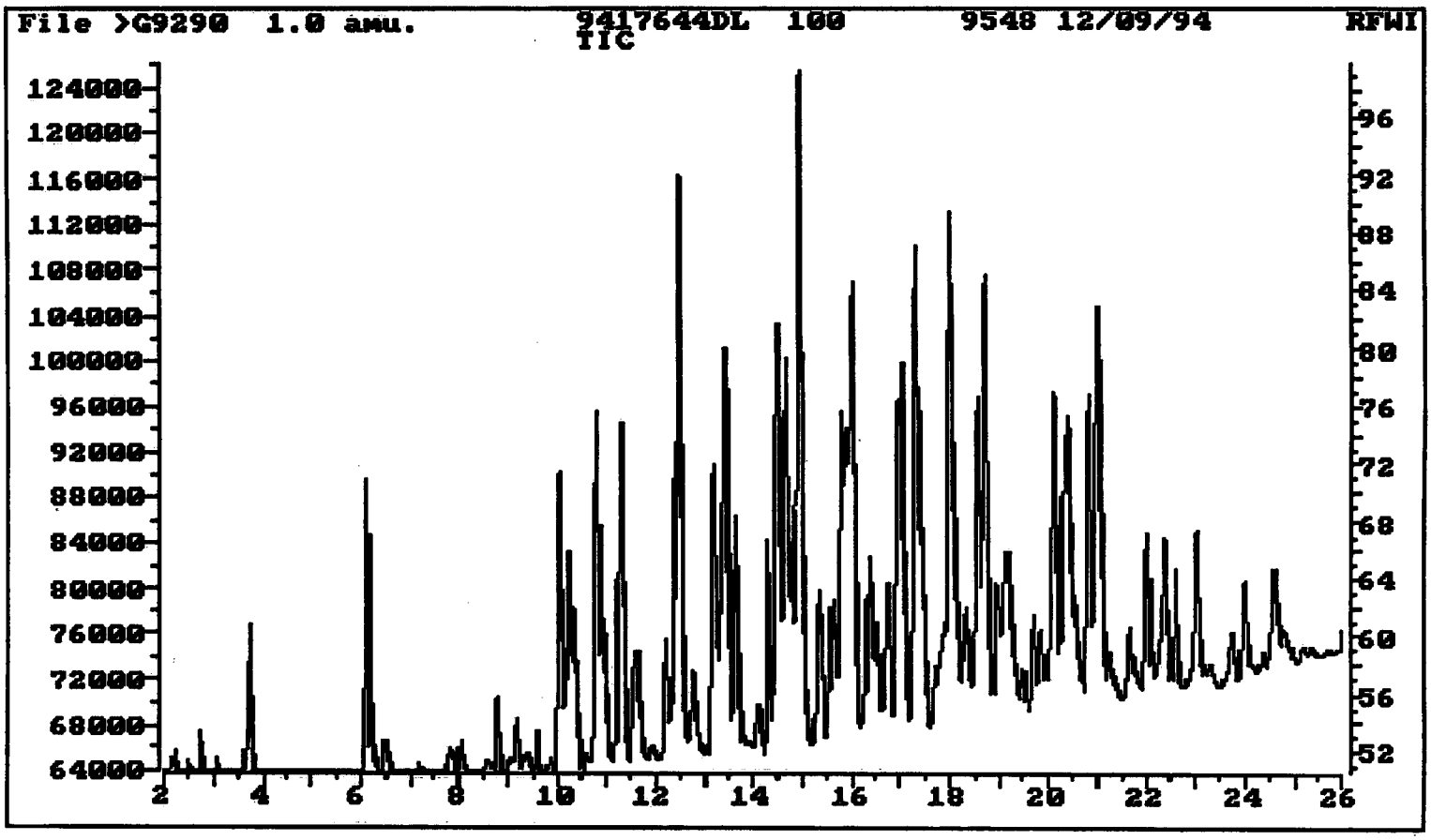


Data File: >G9290::G2 Quant Output File: ^G9290::QT
Name: 9417644DL 100 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-01

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941219 19:26

Operator ID: DANIEL
Quant Time : 941220 09:17
Injected at: 941220 02:53

430


File >G9290 1.0 amu.
9417644DL 100
TIC
9548 12/09/94
RFWI
124000
120000
116000
112000
108000
104000
100000
96000
92000
88000
84000
80000
76000
72000
68000
64000
96
92
88
84
80
76
72
68
64
60
56
52
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431

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417645	DILUTION FACTOR	1
DATA FILE	>G9195	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-SS-02	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	2.15
B-BHC	U	2.15
Lindane	U	2.15
D-BHC	U	2.15
Heptachlor	U	2.15
Aldrin	U	2.15
Heptachlor Epoxide	U	2.15
Endosulfan I	U	2.15
A-Chlordane	U	2.15
G-Chlordane	U	2.15
Dieldrin	U	4.30
4,4'-DDE	U	4.30
Endrin	U	4.30
Endosulfan II	U	4.30
4,4'-DDD	U	4.30
Endrin Aldehyde	2370	4.30
Endosulfan Sulfate	U	4.30
4,4'-DDT	U	4.30
Endrin Ketone	U	4.30
Methoxychlor	U	21.5
Toxaphene	U	43.0

Percent Solid of 77.6 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417645DL 100	DILUTION FACTOR	100
DATA FILE	>G9291	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/20/94
FIELD ID	BB-SS-02	ANALYZED BY	DANIEL

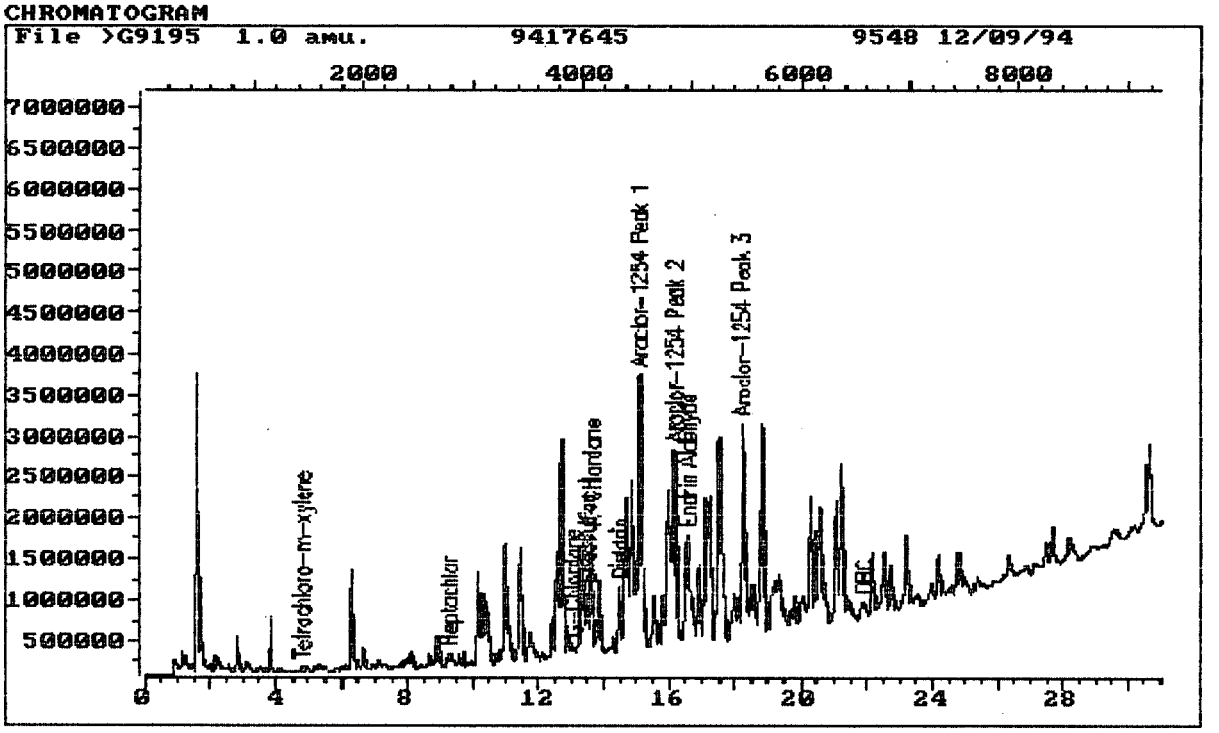
CAS#	COMPOUND	UG/KG		MDL
12674112	Aroclor-1016	U		4300
11104282	Aroclor-1221	U		8590
11141165	Aroclor-1232	U		4300
53469219	Aroclor-1242	U		4300
12672296	Aroclor-1248	U		4300
11097691	Aroclor-1254	81500	I	4300
11096825	Aroclor-1260	U		4300

Percent Solid of 77.6 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

CHROMATOGRAM

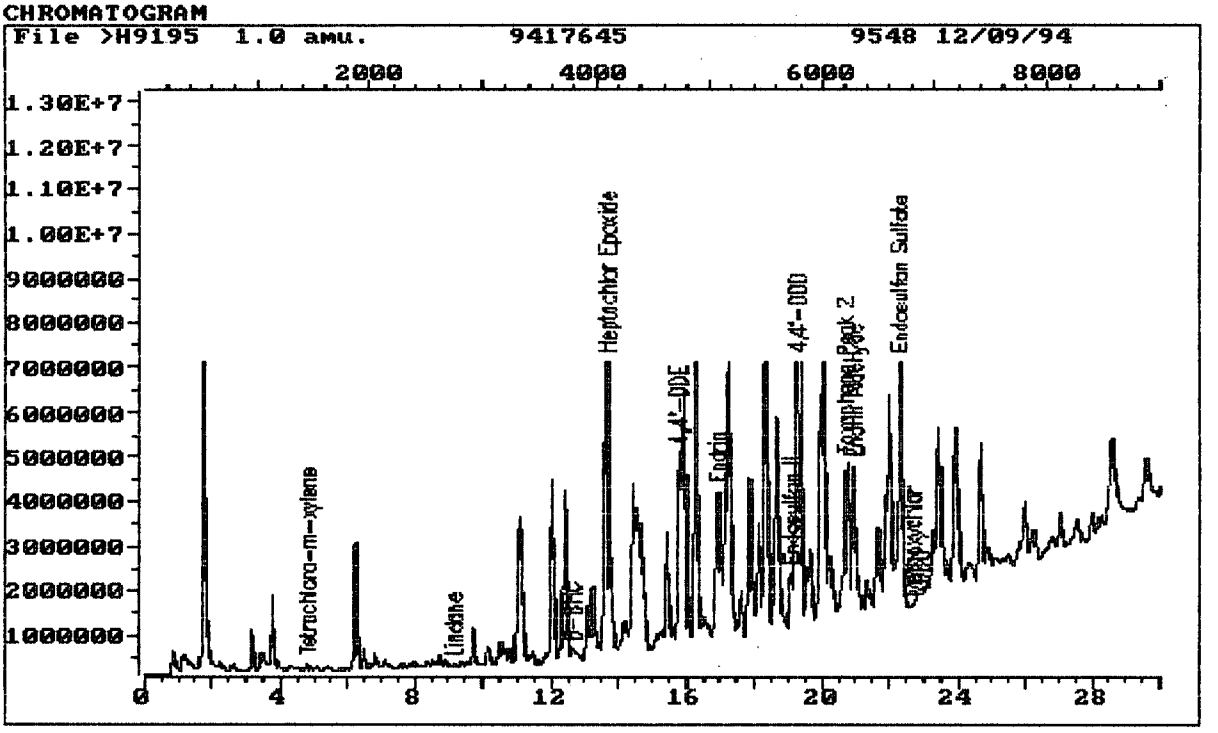


Data File: >G9195::G2 Quant Output File: ^G9195::QT
Name: 9417645 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-02

Id File: IDPP7::G4
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 18:32

Operator ID: DANIEL
Quant Time : 941213 12:45
Injected at: 941213 08:11

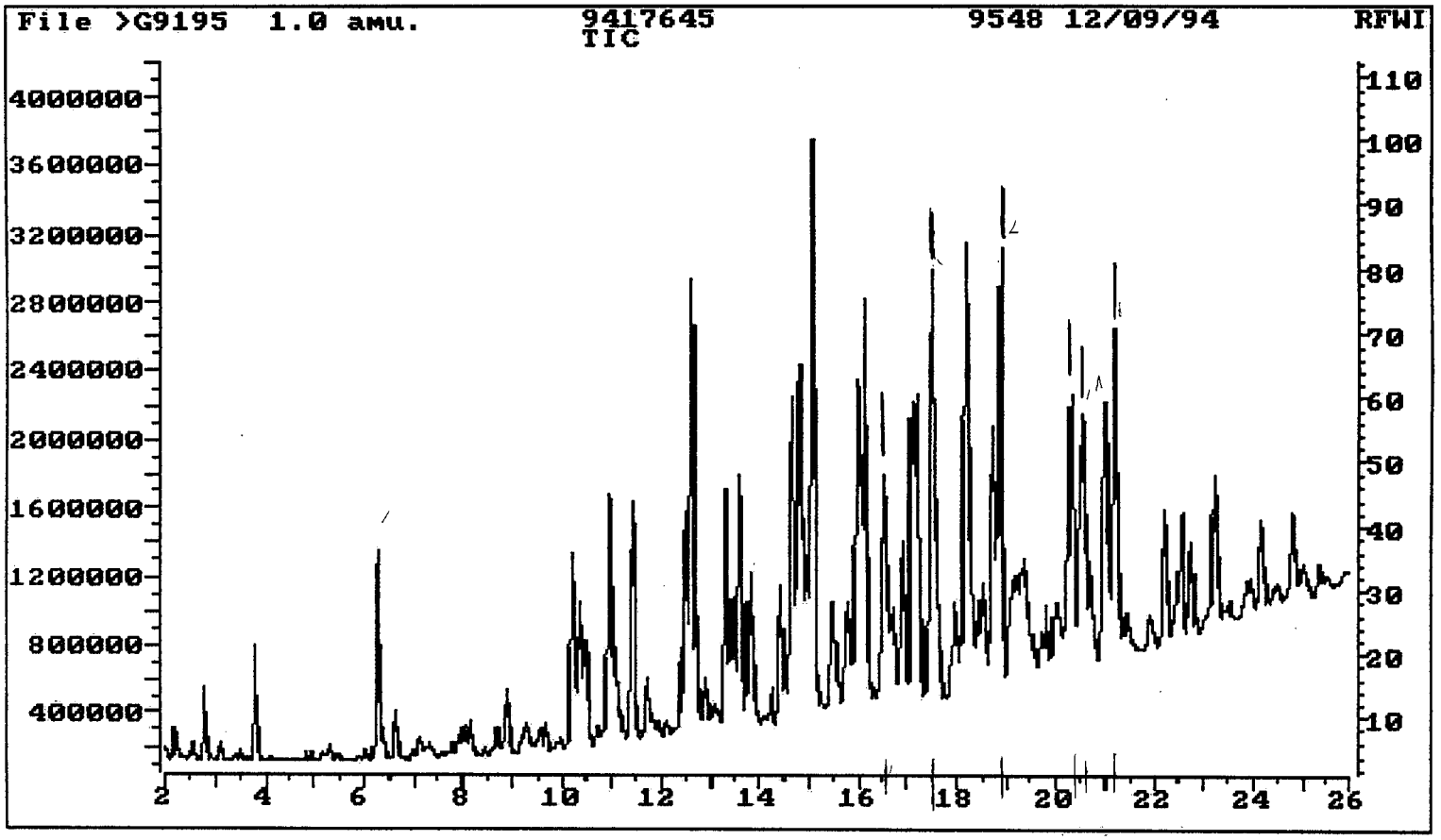
CHROMATOGRAM



Data File: >H9195::G2 Quant Output File: ^H9195::QT
Name: 9417645 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-SS-02

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 19:09

Operator ID: DANIEL
Quant Time : 941213 13:22
Injected at: 941213 08:49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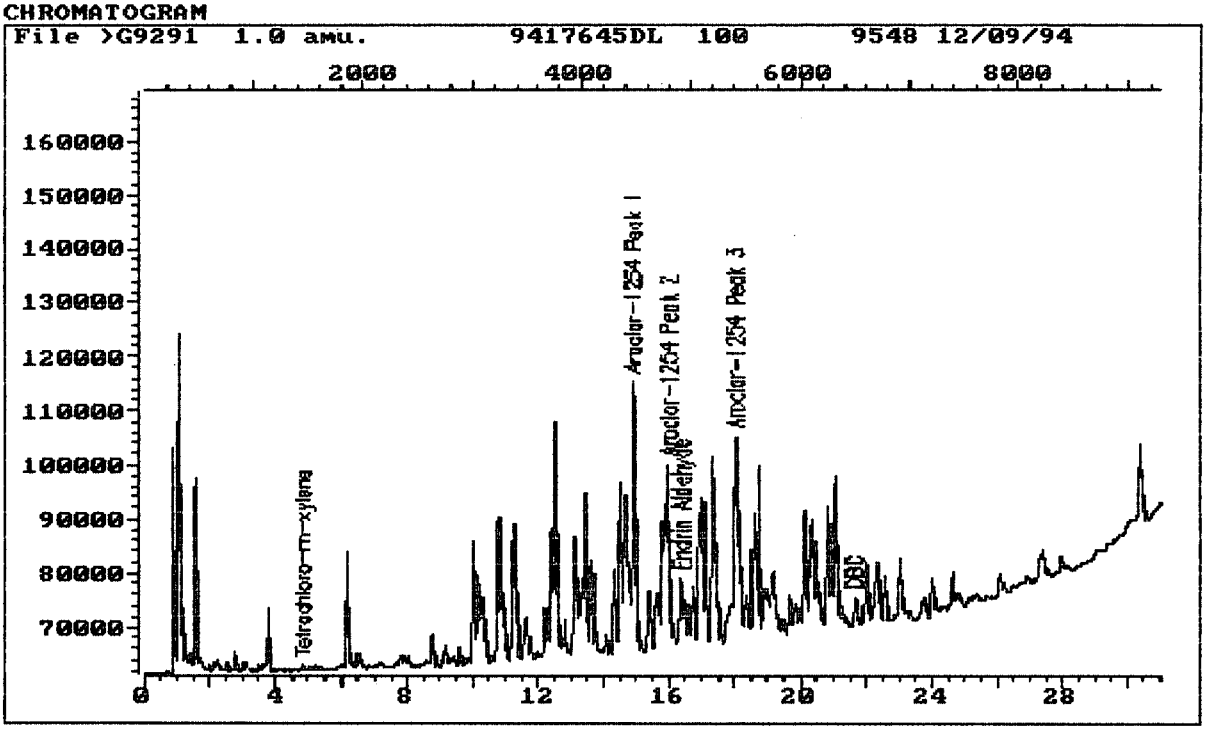
434

CHROMATOGRAM

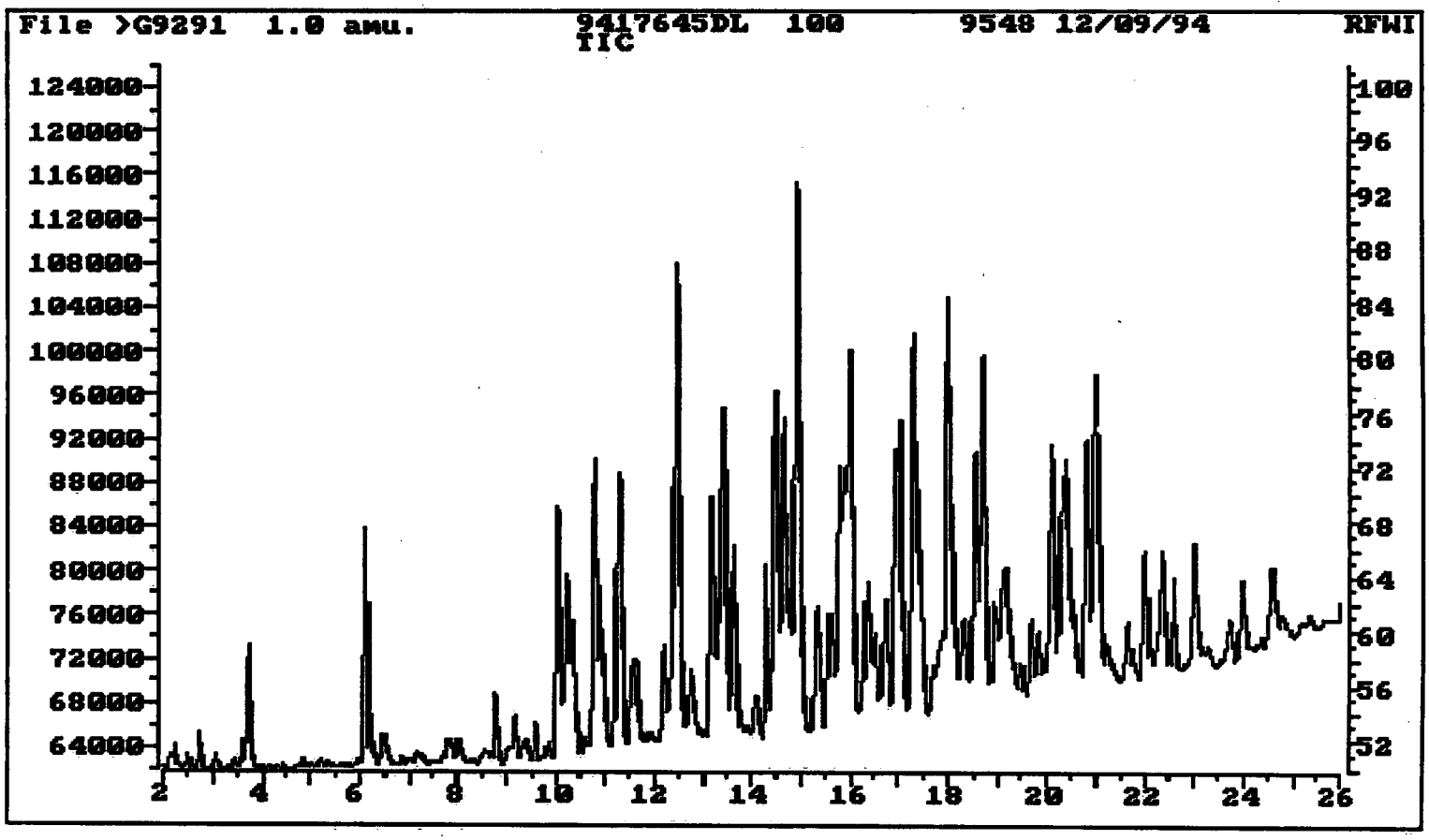


Data File: >G9291::G2 Quant Output File: ^G9291::QT
Name: 9417645DL 100 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-02

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941219 19:26

Operator ID: DANIEL
Quant Time : 941220 09:19
Injected at: 941220 03:30

435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88000
84000
80000
76000
72000
68000
64000
100
96
92
88
84
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76
72
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436

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417646	DILUTION FACTOR	1
DATA FILE	>G9196	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-SS-03	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	2.14
B-BHC	U	2.14
Lindane	U	2.14
D-BHC	U	2.14
Heptachlor	U	2.14
Aldrin	U	2.14
Heptachlor Epoxide	U	2.14
Endosulfan I	U	2.14
A-Chlordane	U	2.14
G-Chlordane	U	2.14
Dieldrin	U	4.28
4,4'-DDE	U	4.28
Endrin	U	4.28
Endosulfan II	U	4.28
4,4'-DDD	U	4.28
Endrin Aldehyde	U	4.28
Endosulfan Sulfate	U	4.28
4,4'-DDT	U	4.28
Endrin Ketone	U	4.28
Methoxychlor	U	21.4
Toxaphene	U	42.8

Percent Solid of 77.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

JPS for G9196 (only)

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417646DL 500	DILUTION FACTOR	500
DATA FILE	>G9292	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/20/94
FIELD ID	BB-SS-03	ANALYZED BY	DANIEL

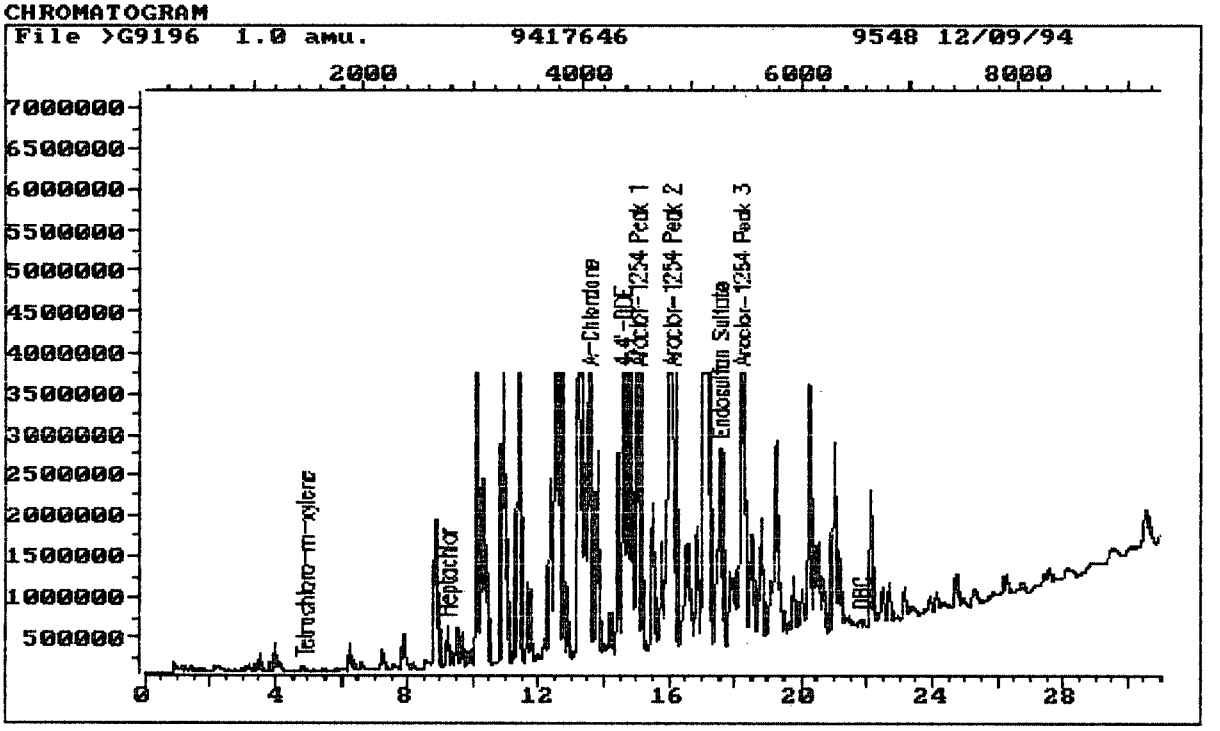
CAS#	COMPOUND	UG/KG		MDL
12674112	Aroclor-1016	U		21400
11104282	Aroclor-1221	U		42800
11141165	Aroclor-1232	U		21400
53469219	Aroclor-1242	U		21400
12672296	Aroclor-1248	U		21400
11097691	Aroclor-1254	502000	I	21400
11096825	Aroclor-1260	U		21400

Percent Solid of 77.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

CHROMATOGRAM



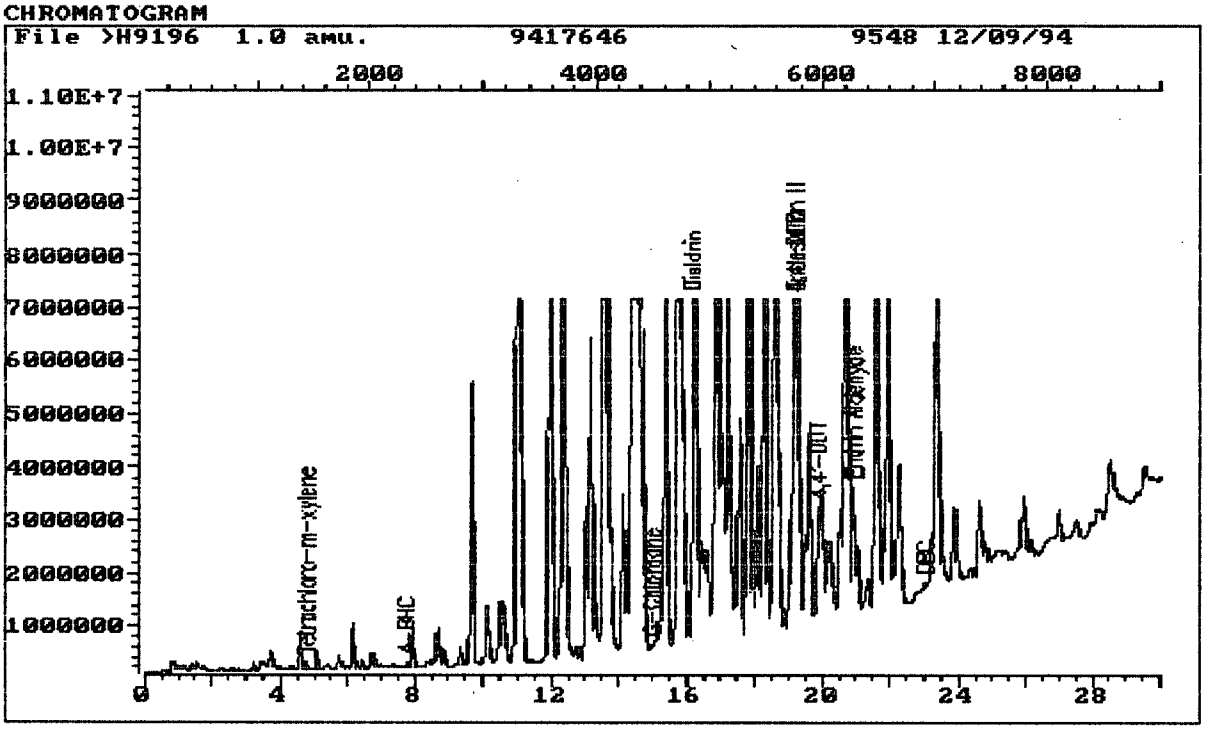
Data File: >G9196::G2 Quant Output File: ^G9196::QT
Name: 9417646 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-03

Id File: IDPP7::G4
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 18:32

Operator ID: DANIEL
Quant Time : 941213 12:48
Injected at: 941213 08:49

437

CHROMATOGRAM

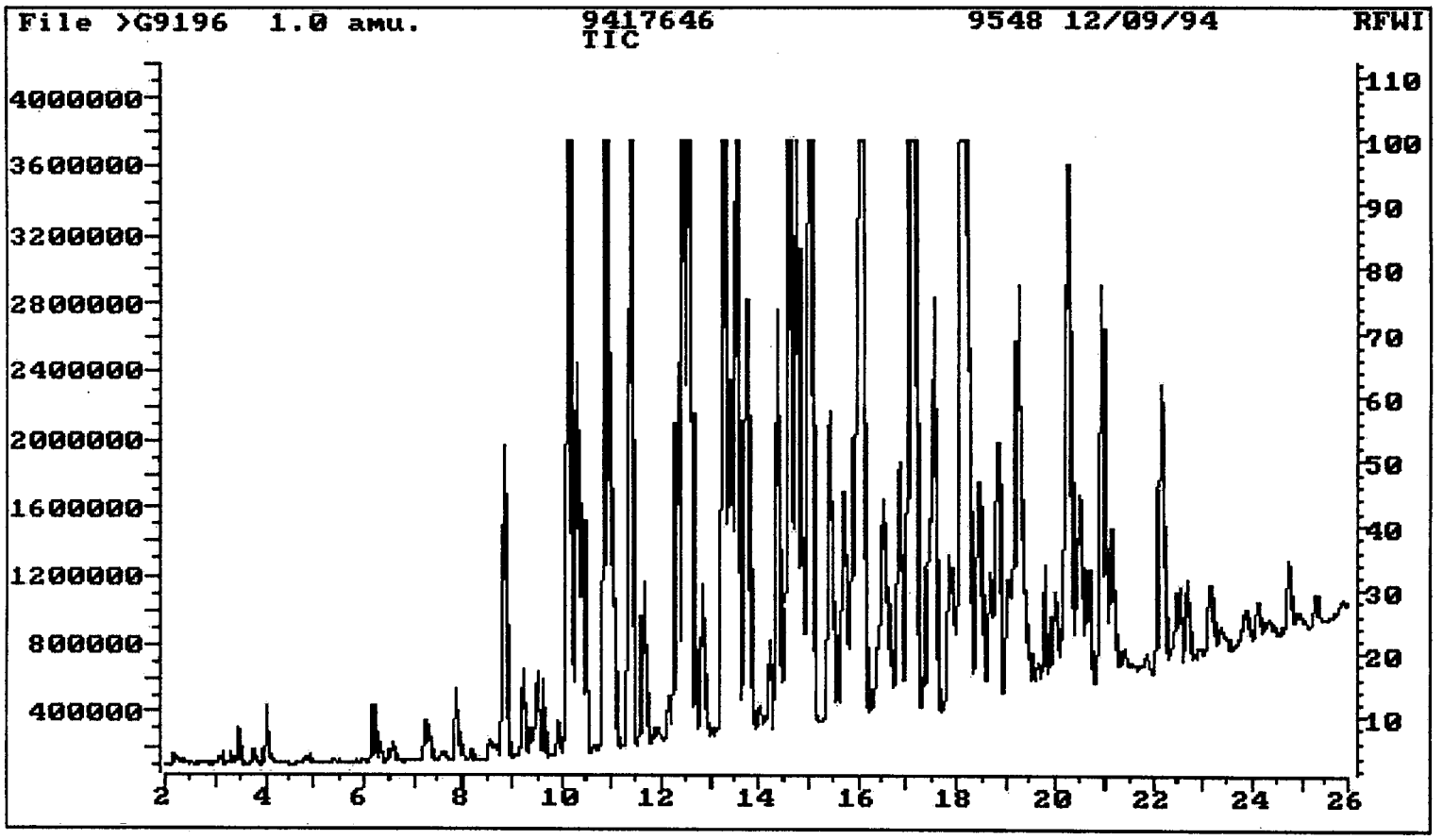


Data File: >H9196::G2 Quant Output File: ^H9196::QT
Name: 9417646 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-SS-03

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 19:09

Operator ID: DANIEL
Quant Time : 941213 13:23
Injected at: 941213 09:26

438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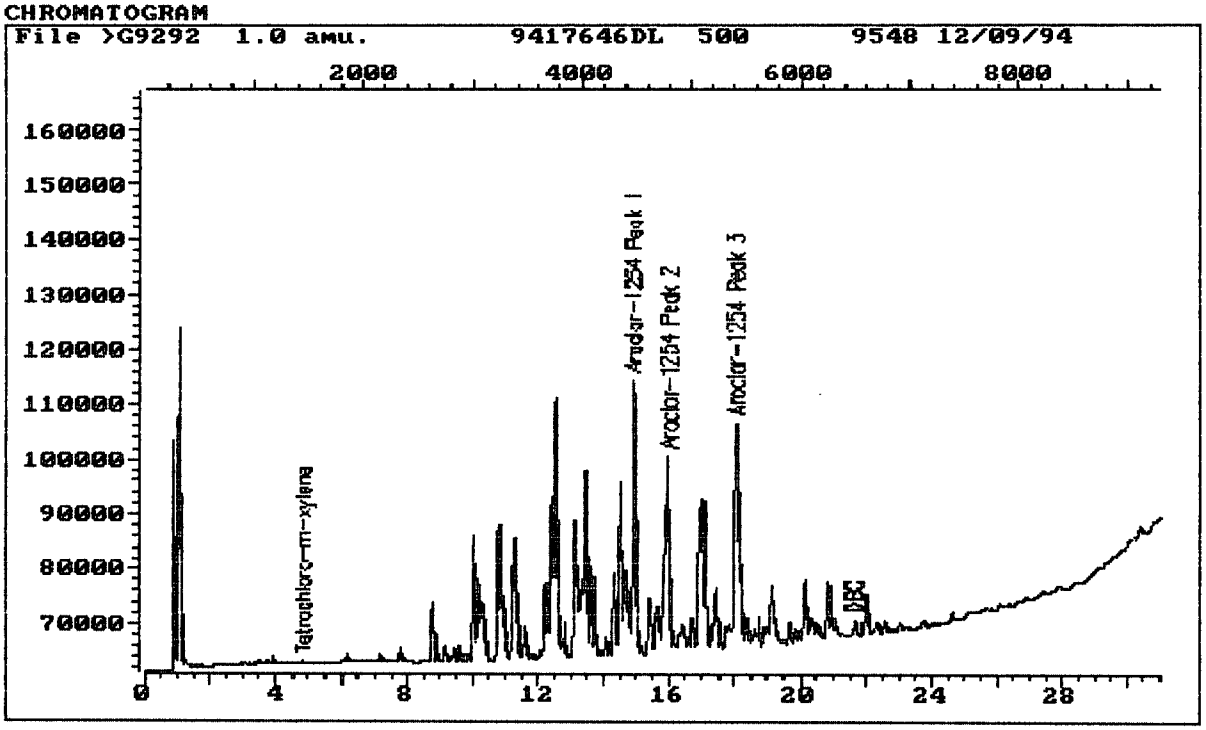
439

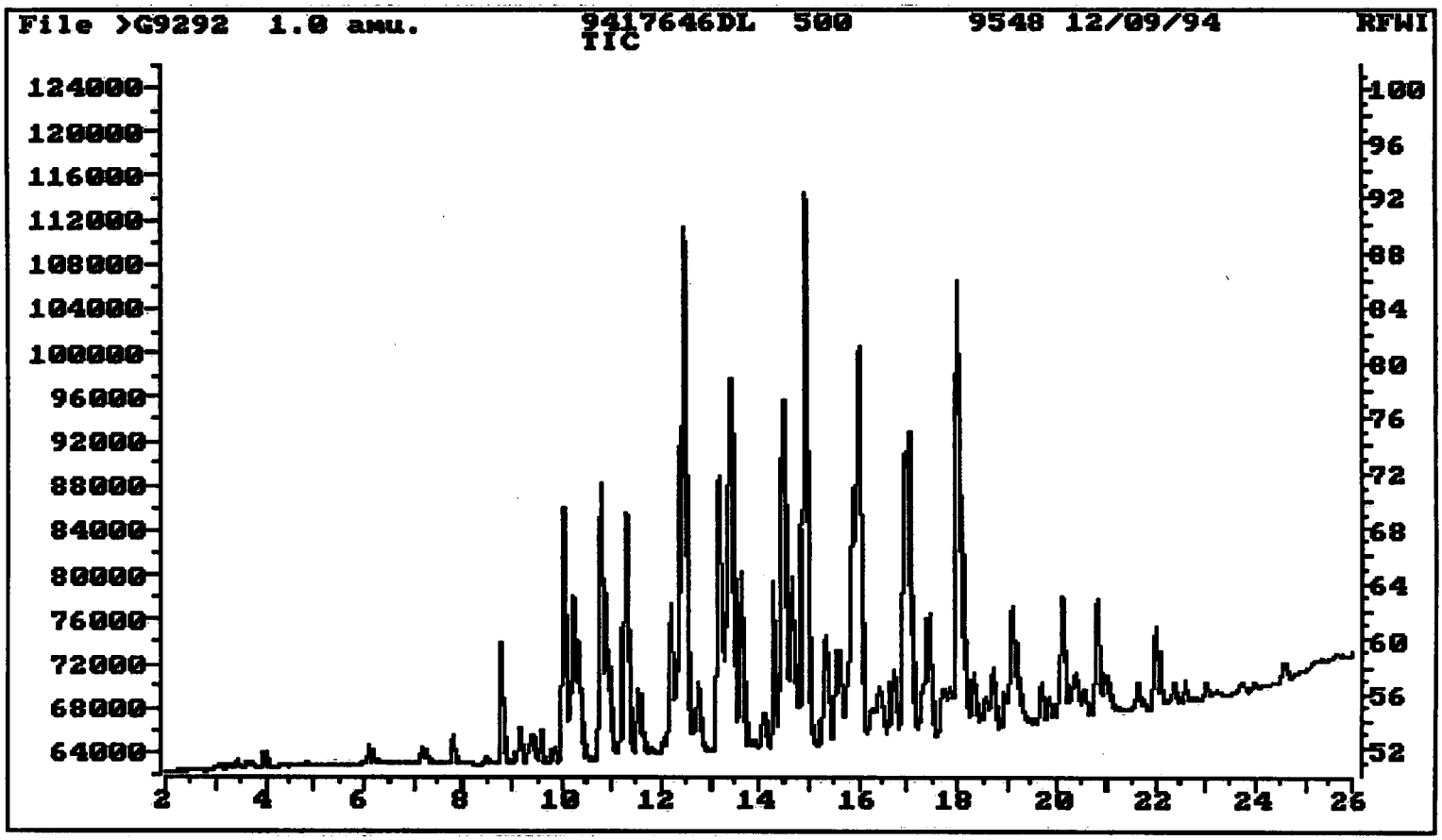
CHROMATOGRAM



Data File: >G9292::G2 Quant Output File: ^G9292::QT
Name: 9417646DL 500 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-03

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941219 19:26

Operator ID: DANIEL
Quant Time : 941220 09:22
Injected at: 941220 04:07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441

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417647	DILUTION FACTOR	1
DATA FILE	>G9197	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-SS-04	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	1.97
B-BHC	U	1.97
Lindane	U	1.97
D-BHC	U	1.97
Heptachlor	U	1.97
Aldrin	U	1.97
Heptachlor Epoxide	U	1.97
Endosulfan I	U	1.97
A-Chlordane	U	1.97
G-Chlordane	U	1.97
Dieldrin	U	3.94
4,4'-DDE	U	3.94
Endrin	U	3.94
Endosulfan II	U	3.94
4,4'-DDD	U	3.94
Endrin Aldehyde	U	3.94
Endosulfan Sulfate	U	3.94
4,4'-DDT	U	3.94
Endrin Ketone	U	3.94
Methoxychlor	U	19.7
Toxaphene	U	39.4

Percent Solid of 84.7 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417647DL 500	DILUTION FACTOR	500
DATA FILE	>G9293	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/20/94
FIELD ID	BB-SS-04	ANALYZED BY	DANIEL

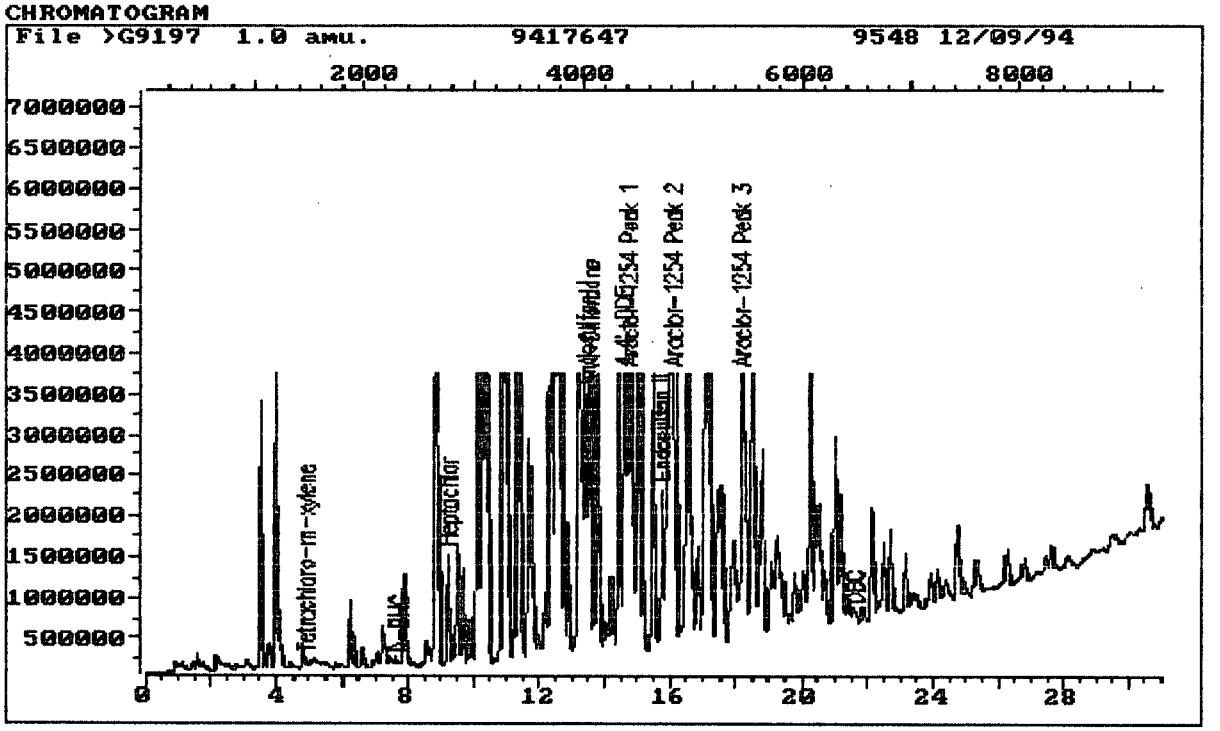
CAS#	COMPOUND	UG/KG		MDL
12674112	Aroclor-1016	U		19700
11104282	Aroclor-1221	U		39400
11141165	Aroclor-1232	U		19700
53469219	Aroclor-1242	U		19700
12672296	Aroclor-1248	U		19700
11097691	Aroclor-1254	329000	I	19700
11096825	Aroclor-1260	U		19700

Percent Solid of 84.7 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

CHROMATOGRAM



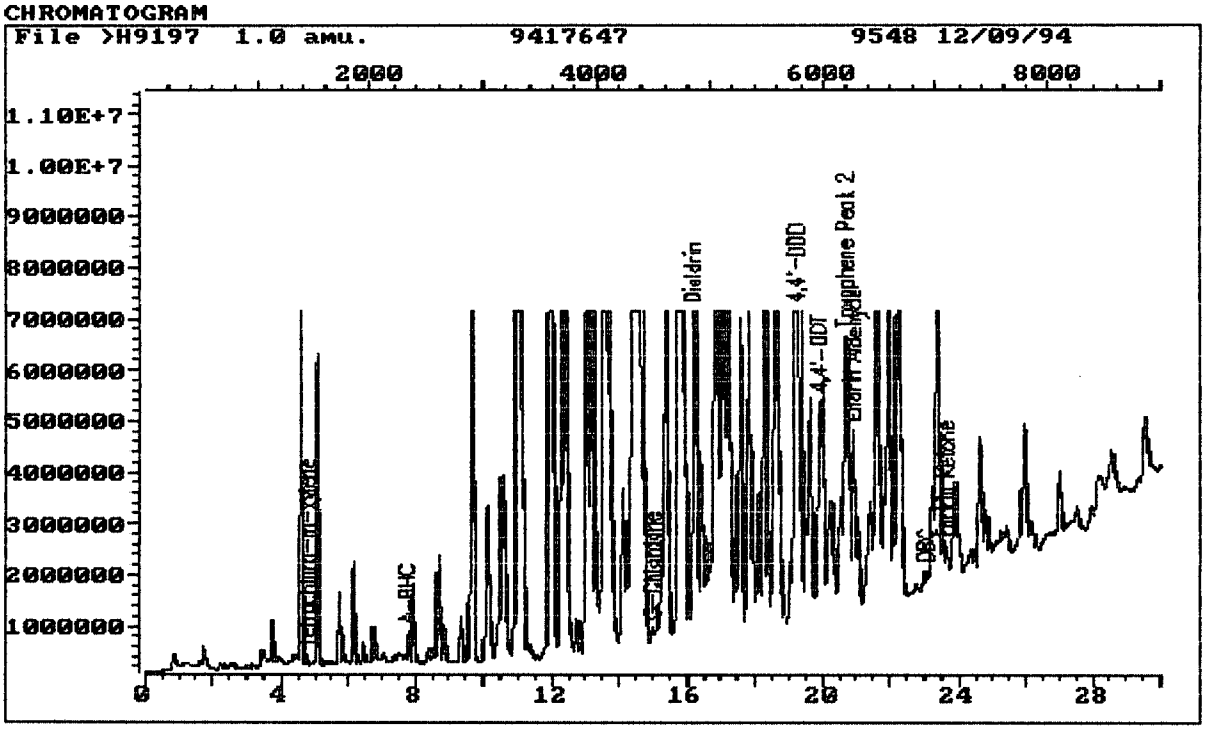
Data File: >G9197::G2 Quant Output File: ^G9197::QT
Name: 9417647 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-04

Id File: IDPP7::G4
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 18:32

Operator ID: DANIEL
Quant Time : 941213 12:50
Injected at: 941213 09:26

442

CHROMATOGRAM

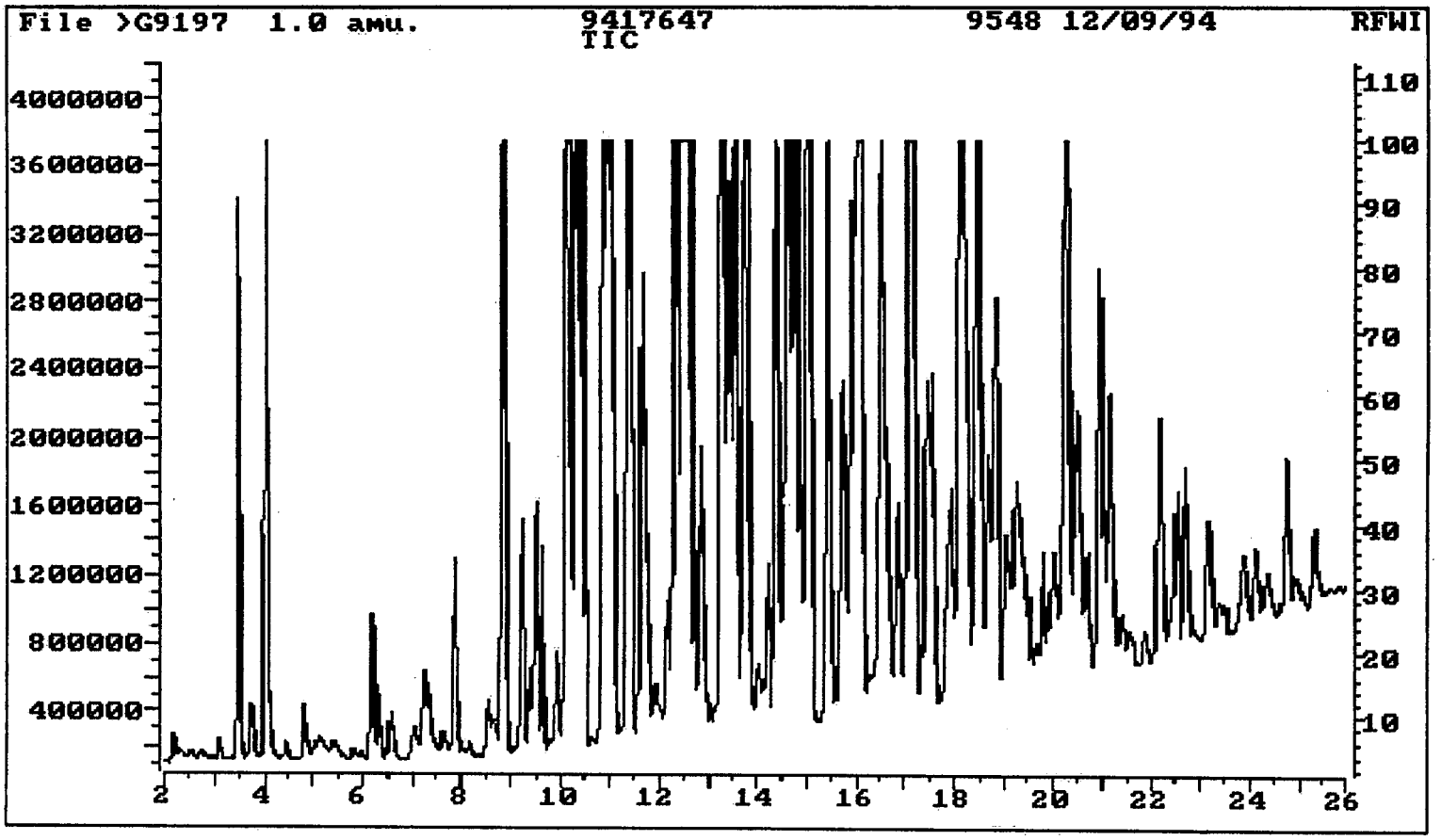


Data File: >H9197::G2 Quant Output File: ^H9197::QT
Name: 9417647 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-SS-04

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 19:09

Operator ID: DANIEL
Quant Time : 941213 13:24
Injected at: 941213 10:03

443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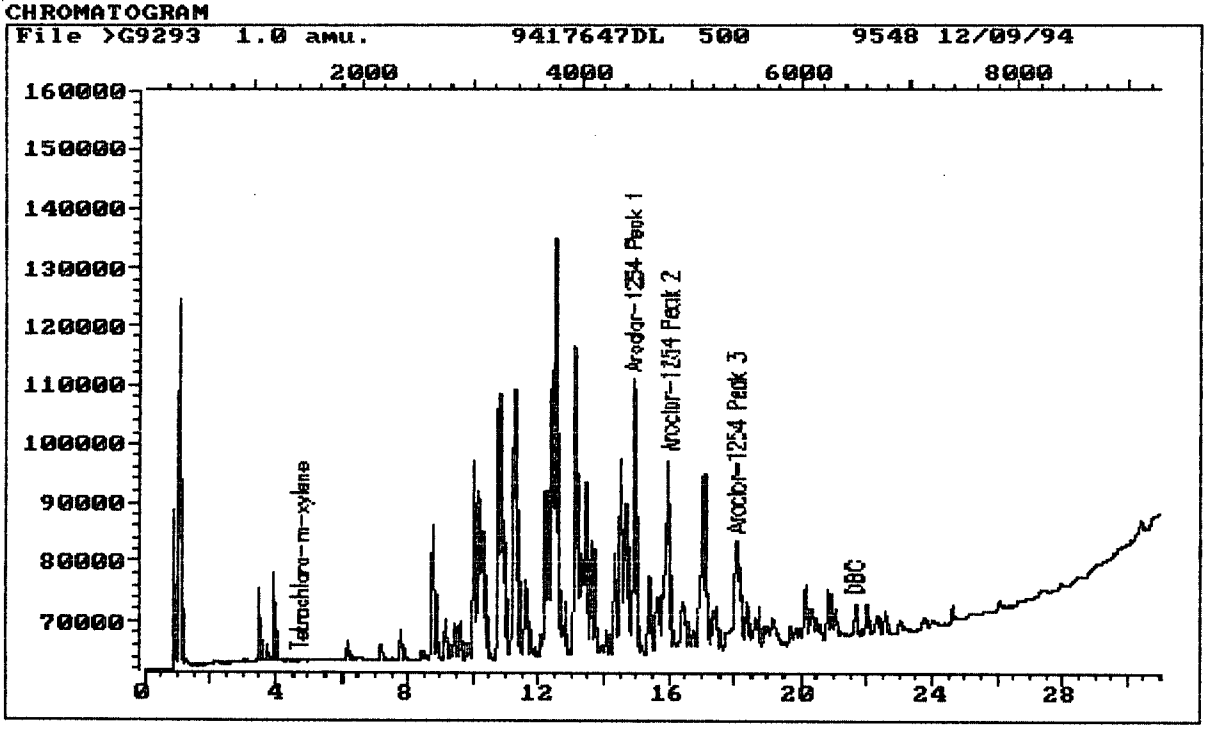
444

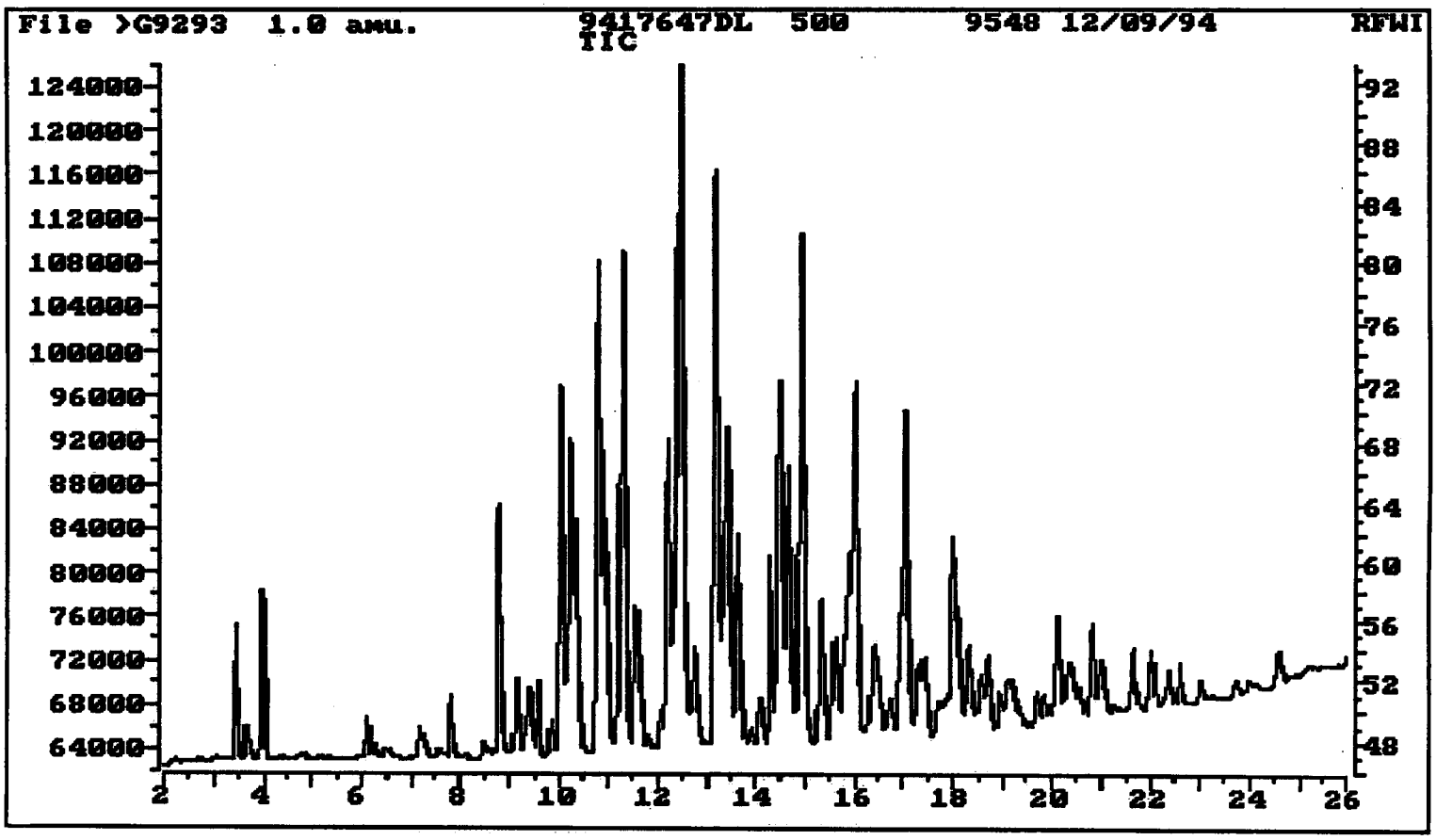
CHROMATOGRAM



Data File: >G9293::G2 Quant Output File: ^G9293::QT
Name: 9417647DL 500 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-04

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941219 19:26

Operator ID: DANIEL
Quant Time : 941220 09:25
Injected at: 941220 04:44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446

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417648	DILUTION FACTOR	1
DATA FILE	>G9198	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-SS-05	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	2.10
B-BHC	U	2.10
Lindane	U	2.10
D-BHC	U	2.10
Heptachlor	U	2.10
Aldrin	U	2.10
Heptachlor Epoxide	U	2.10
Endosulfan I	U	2.10
A-Chlordane	U	2.10
G-Chlordane	U	2.10
Dieldrin	U	4.21
4,4'-DDE	U	4.21
Endrin	U	4.21
Endosulfan II	U	4.21
4,4'-DDD	U	4.21
Endrin Aldehyde	U	4.21
Endosulfan Sulfate	U	4.21
4,4'-DDT	U	4.21
Endrin Ketone	U	4.21
Methoxychlor	U	21.0
Toxaphene	U	42.1

Percent Solid of 79.2 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417648DL 100	DILUTION FACTOR	100
DATA FILE	>G9294	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/20/94
FIELD ID	BB-SS-05	ANALYZED BY	DANIEL

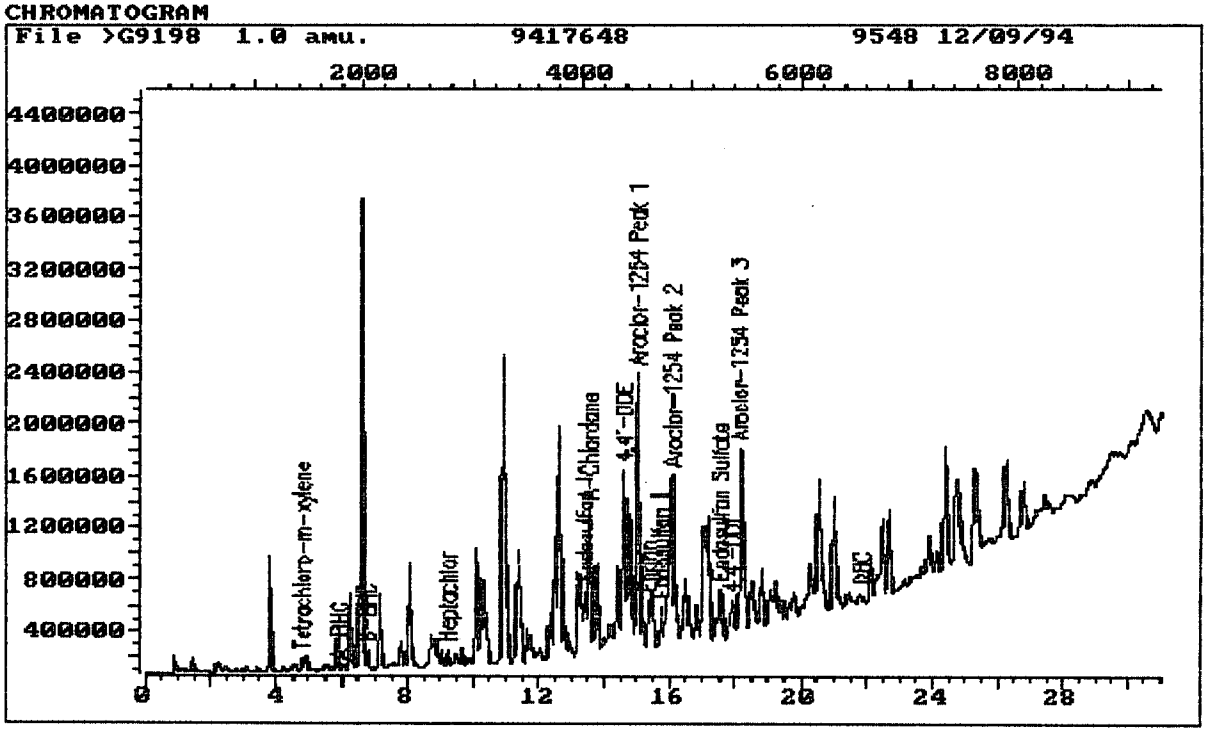
CAS#	COMPOUND	UG/KG		MDL
12674112	Aroclor-1016	U		4210
11104282	Aroclor-1221	U		8420
11141165	Aroclor-1232	U		4210
53469219	Aroclor-1242	U		4210
12672296	Aroclor-1248	U		4210
11097691	Aroclor-1254	74000	I	4210
11096825	Aroclor-1260	U		4210

Percent Solid of 79.2 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

CHROMATOGRAM

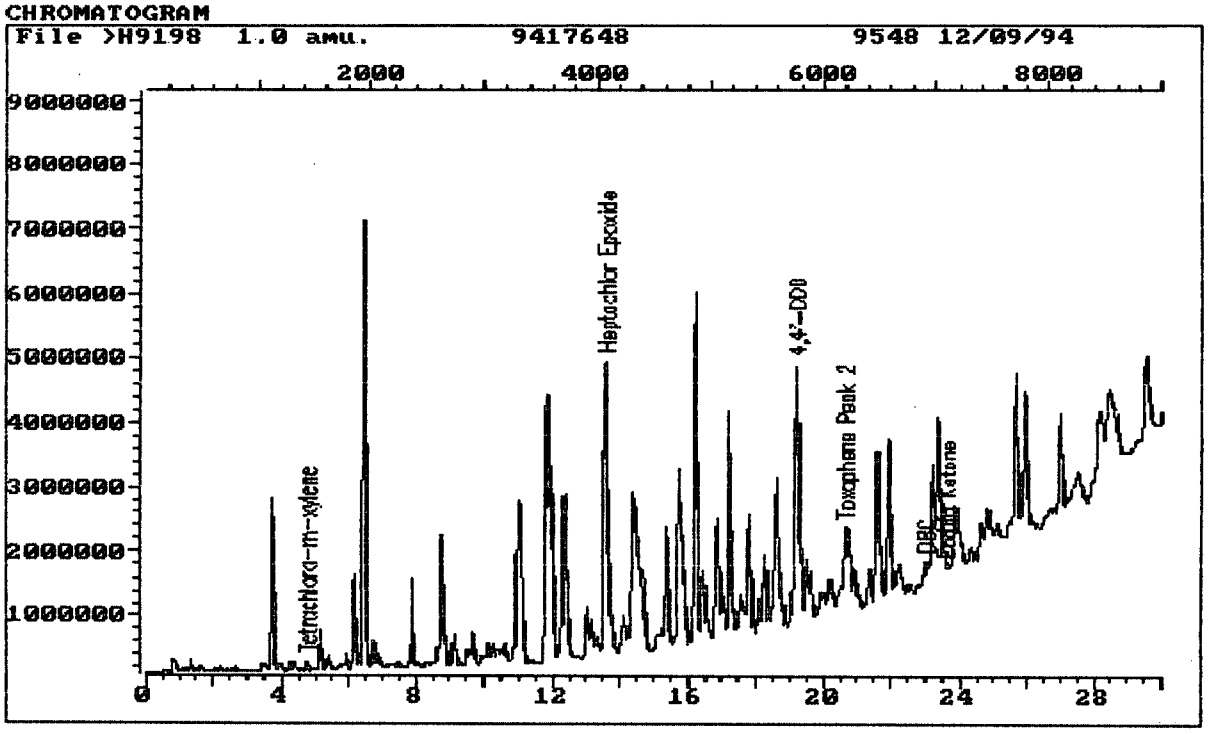


Data File: >G9198::G2 Quant Output File: ^G9198::QT
Name: 9417648 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-05

Id File: IDPP7::G4
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 18:32

Operator ID: DANIEL
Quant Time : 941213 12:52
Injected at: 941213 10:03

CHROMATOGRAM

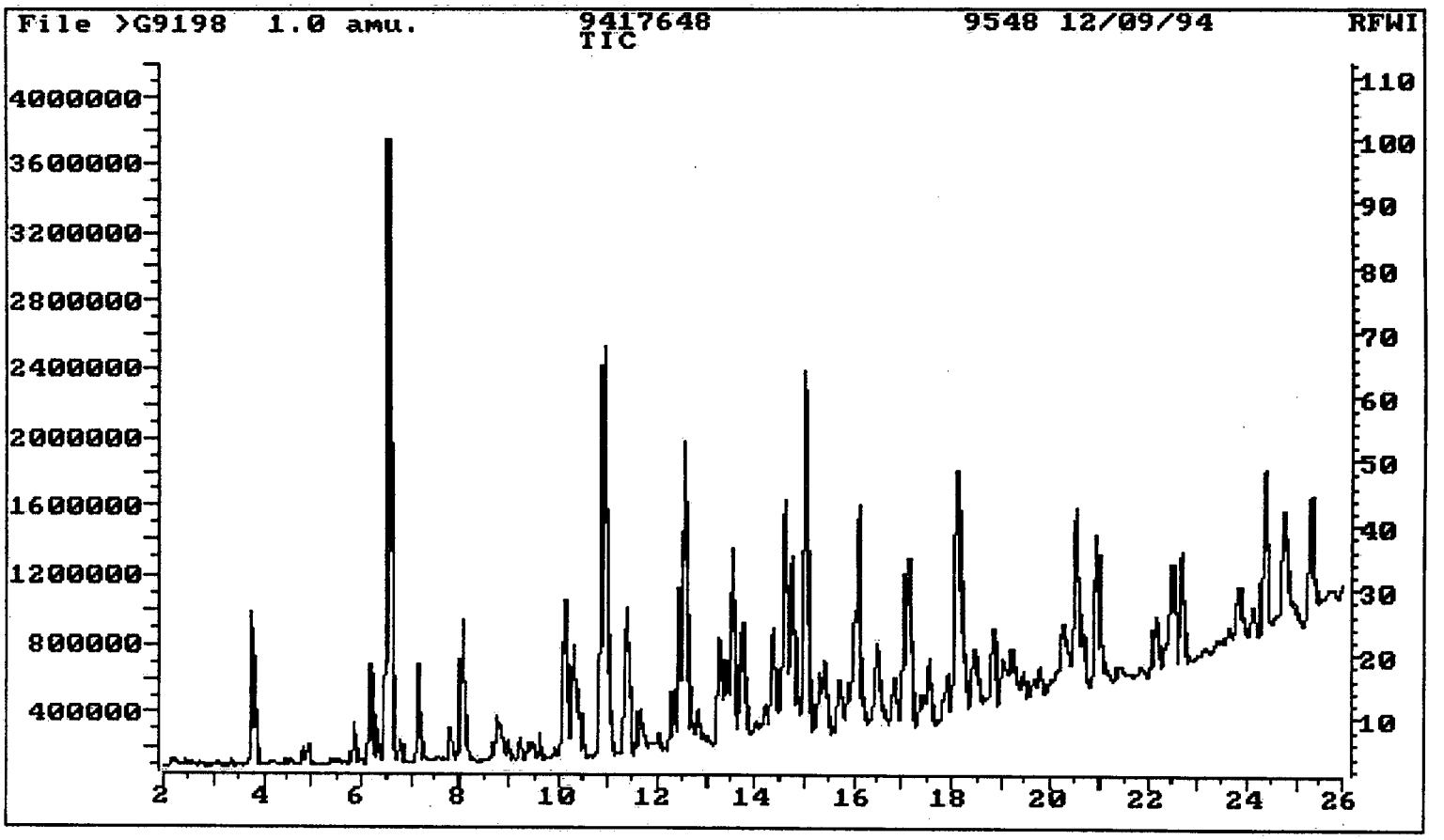


Data File: >H9198::G2 Quant Output File: ^H9198::QT
Name: 9417648 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-SS-05

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 19:09

Operator ID: DANIEL
Quant Time : 941213 13:25
Injected at: 941213 10:42

448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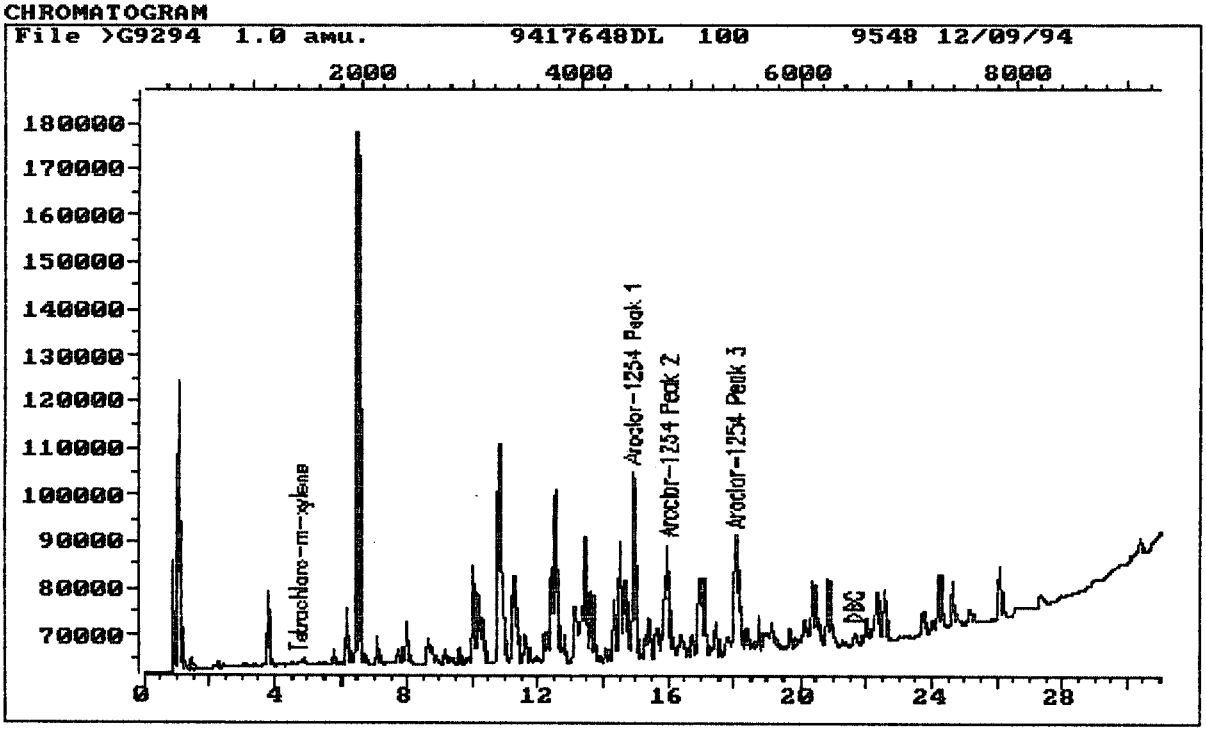
449

CHROMATOGRAM

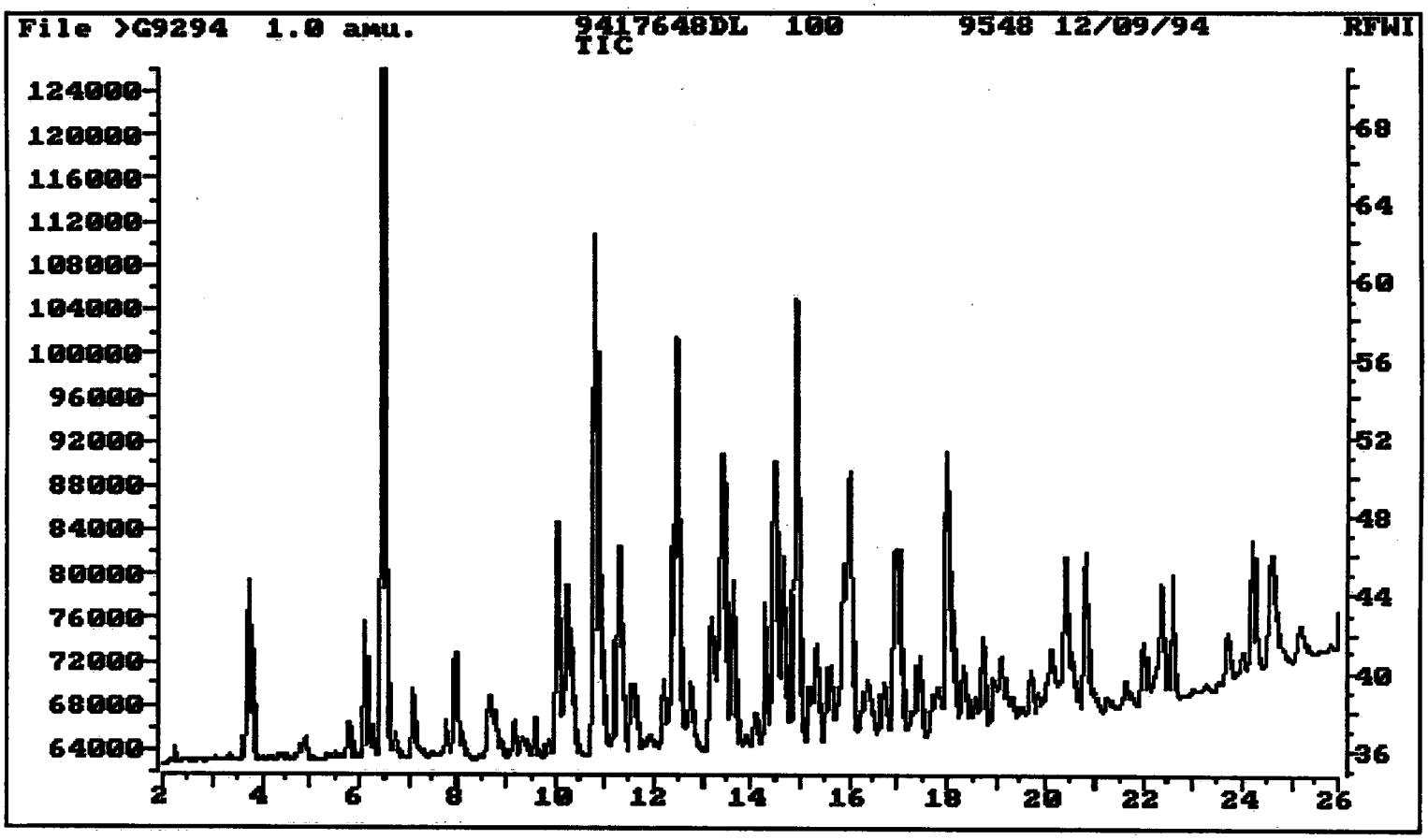


Data File: >G9294::G2 Quant Output File: ^G9294::QT
Name: 9417648DL 100 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-05

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941219 19:26

Operator ID: DANIEL
Quant Time : 941220 09:28
Injected at: 941220 05:21

450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RFWI
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84000
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451

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417649	DILUTION FACTOR	1
DATA FILE	>G9199	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-SS-06	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	2.27
B-BHC	U	2.27
Lindane	U	2.27
D-BHC	U	2.27
Heptachlor	U	2.27
Aldrin	U	2.27
Heptachlor Epoxide	U	2.27
Endosulfan I	U	2.27
A-Chlordane	U	2.27
G-Chlordane	U	2.27
Dieldrin	U	4.55
4,4'-DDE	U	4.55
Endrin	U	4.55
Endosulfan II	U	4.55
4,4'-DDD	U	4.55
Endrin Aldehyde	U	4.55
Endosulfan Sulfate	U	4.55
4,4'-DDT	U	4.55
Endrin Ketone	U	4.55
Methoxychlor	U	22.7
Toxaphene	U	45.5

Percent Solid of 73.3 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417649DL 20	DILUTION FACTOR	20
DATA FILE	>G9295	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/20/94
FIELD ID	BB-SS-06	ANALYZED BY	DANIEL

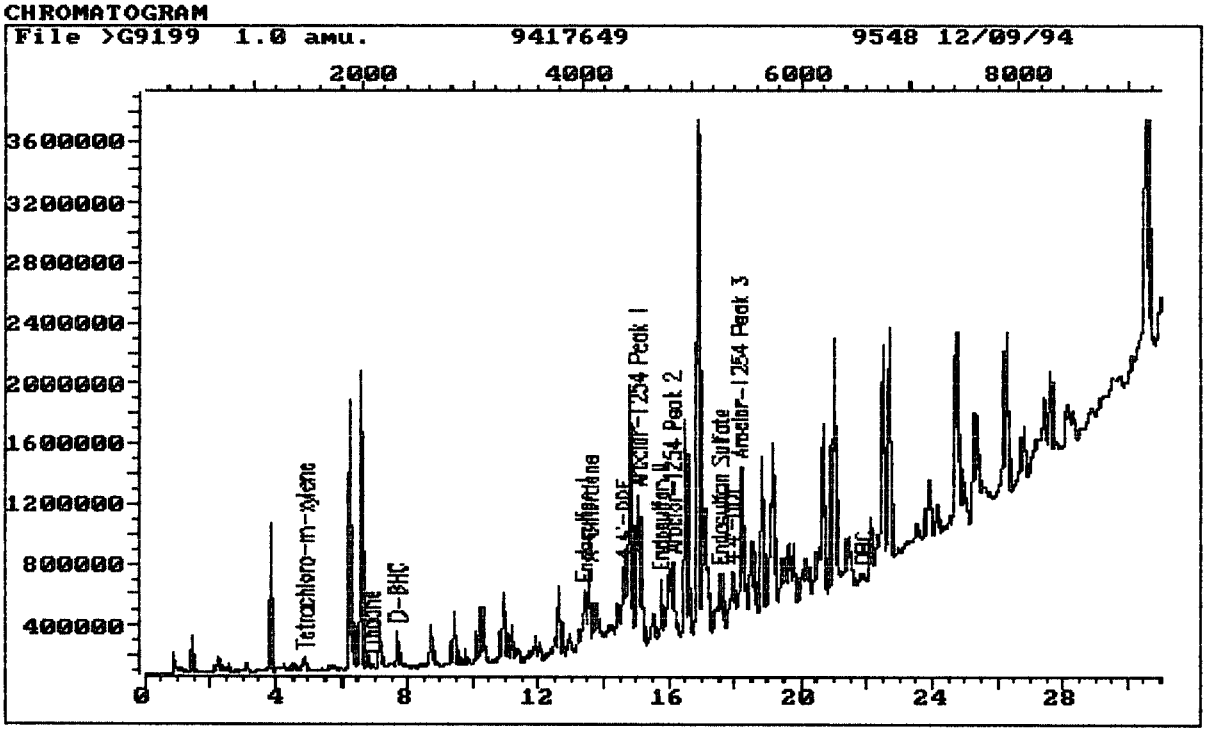
CAS#	COMPOUND	UG/KG		MDL
12674112	Aroclor-1016	U		910
11104282	Aroclor-1221	U		1820
11141165	Aroclor-1232	U		910
53469219	Aroclor-1242	U		910
12672296	Aroclor-1248	U		910
11097691	Aroclor-1254	26500	I	910
11096825	Aroclor-1260	U		910

Percent Solid of 73.3 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

CHROMATOGRAM



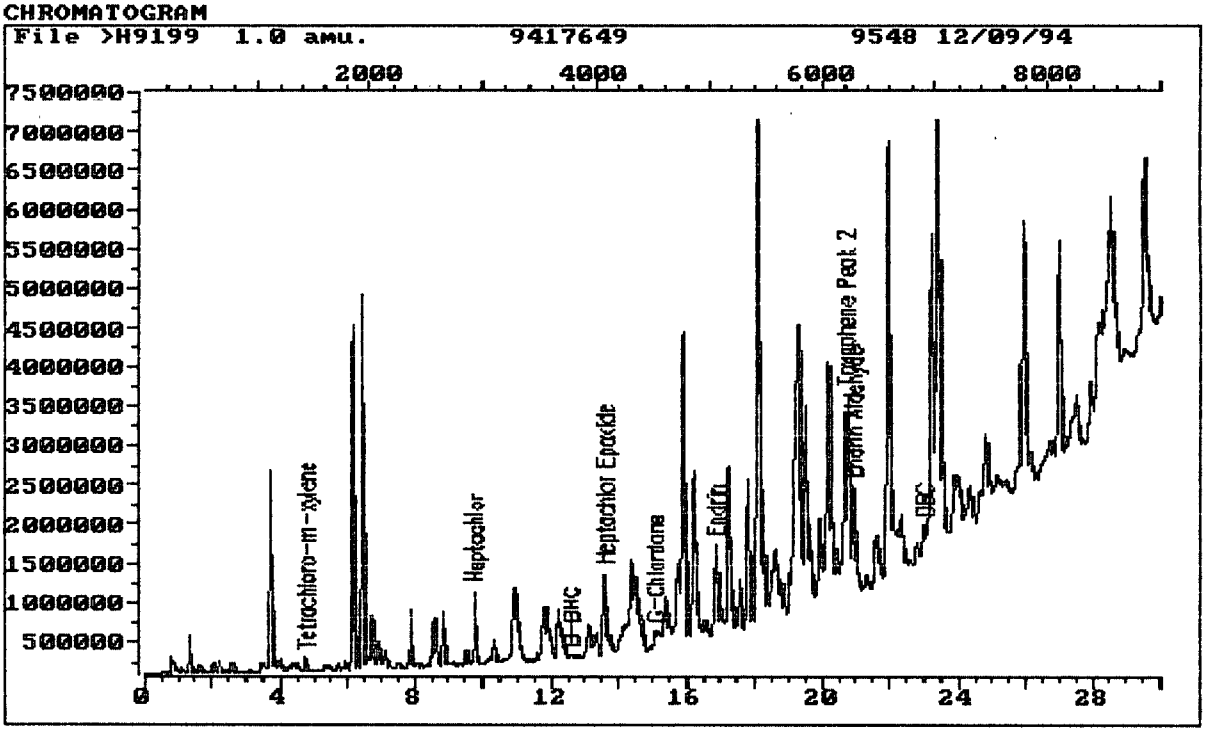
Data File: >G9199::G2 Quant Output File: ^G9199::QT
Name: 9417649 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-06

Id File: IDPP7::G4
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 18:32

Operator ID: DANIEL
Quant Time : 941213 12:54
Injected at: 941213 10:42

452

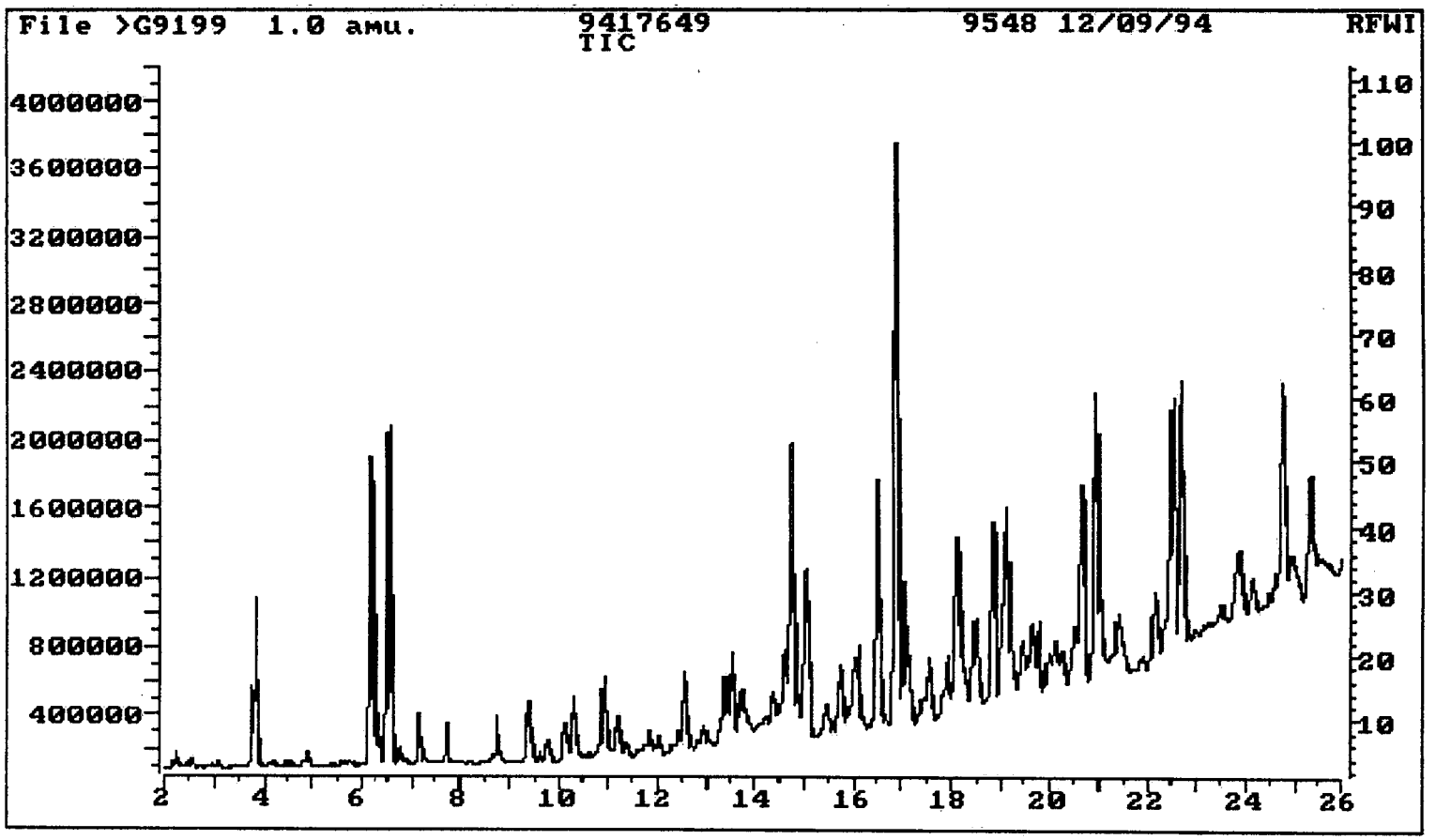
CHROMATOGRAM



Data File: >H9199::G2 Quant Output File: ^H9199::QT
Name: 9417649 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-SS-06

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 19:09

Operator ID: DANIEL
Quant Time : 941213 13:29
Injected at: 941213 11:19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90
80
70
60
50
40
30
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454

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417650	DILUTION FACTOR	1
DATA FILE	>G9200	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-SS-07	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	2.06
B-BHC	U	2.06
Lindane	U	2.06
D-BHC	U	2.06
Heptachlor	U	2.06
Aldrin	U	2.06
Heptachlor Epoxide	U	2.06
Endosulfan I	U	2.06
A-Chlordane	U	2.06
G-Chlordane	U	2.06
Dieldrin	U	4.13
4,4'-DDE	U	4.13
Endrin	U	4.13
Endosulfan II	U	4.13
4,4'-DDD	U	4.13
Endrin Aldehyde	U	4.13
Endosulfan Sulfate	U	4.13
4,4'-DDT	U	4.13
Endrin Ketone	U	4.13
Methoxychlor	U	20.6
Toxaphene	U	41.3

Percent Solid of 80.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417650DL 100	DILUTION FACTOR	100
DATA FILE	>G9296	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/20/94
FIELD ID	BB-SS-07	ANALYZED BY	DANIEL

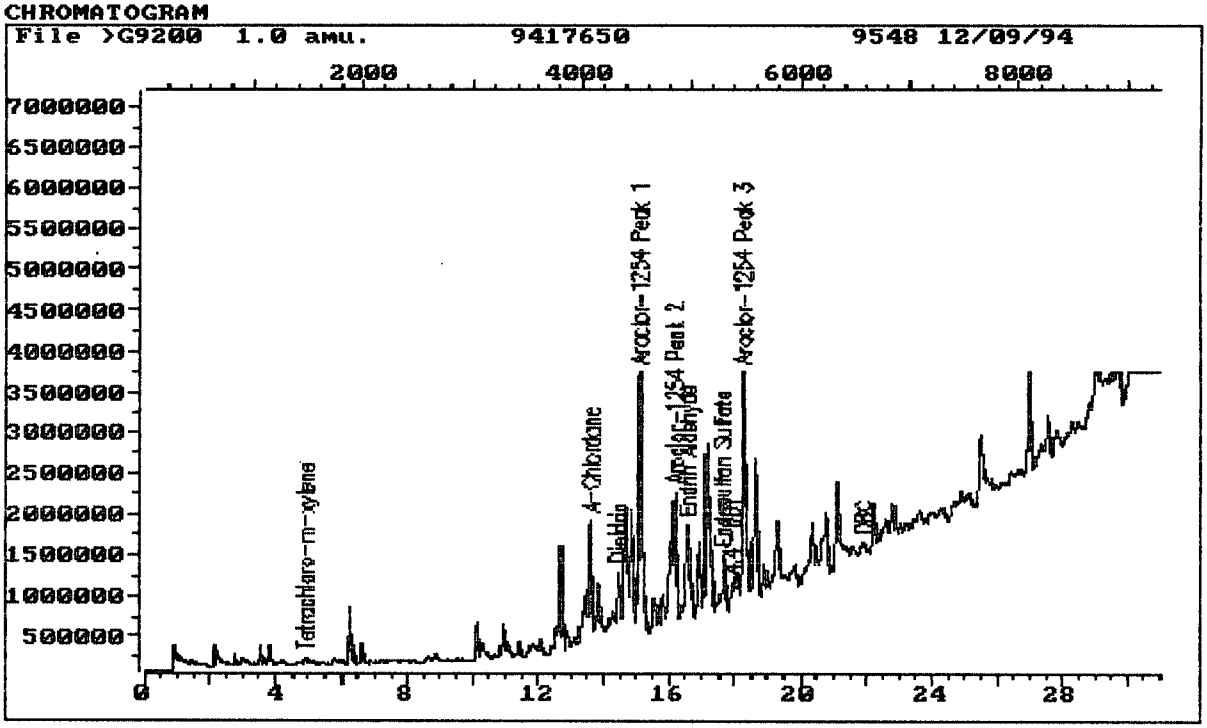
CAS#	COMPOUND	UG/KG		MDL
12674112	Aroclor-1016	U		4130
11104282	Aroclor-1221	U		8250
11141165	Aroclor-1232	U		4130
53469219	Aroclor-1242	U		4130
12672296	Aroclor-1248	U		4130
11097691	Aroclor-1254	86100	I	4130
11096825	Aroclor-1260	U		4130

Percent Solid of 80.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

CHROMATOGRAM



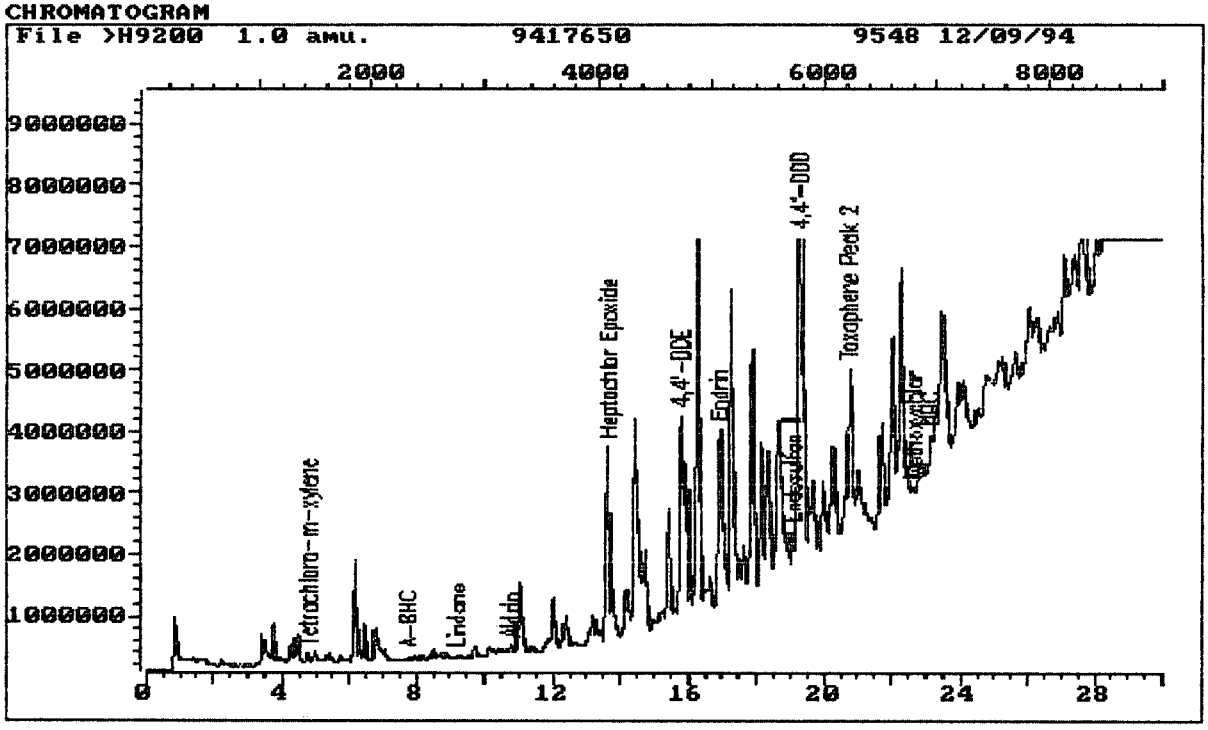
Data File: >G9200::G2 Quant Output File: ^G9200::QT
Name: 9417650 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-07

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 18:32

Operator ID: DANIEL
Quant Time : 941215 11:09
Injected at: 941213 11:19

455

CHROMATOGRAM

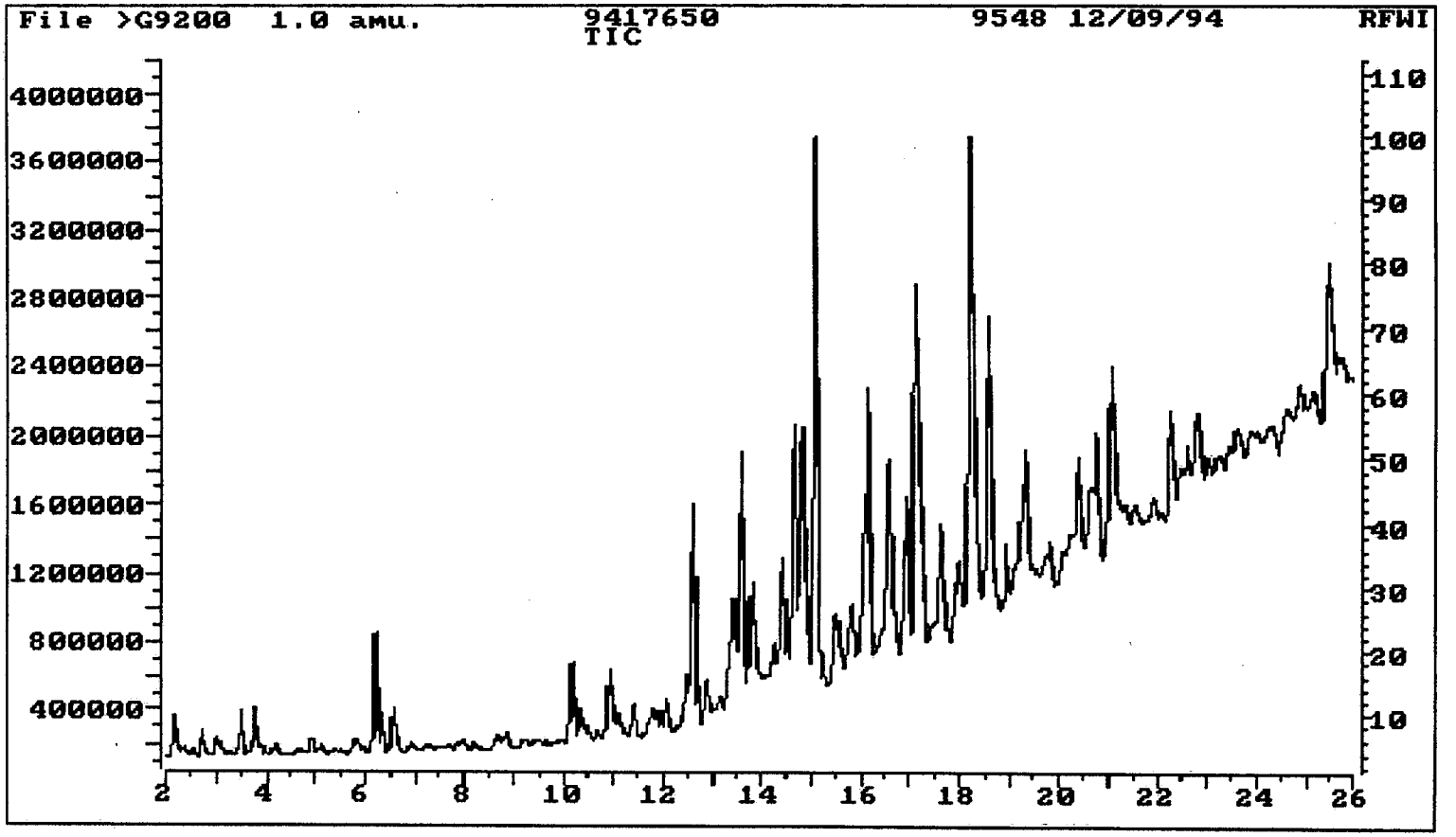


Data File: >H9200::G2 Quant Output File: ^H9200::QT
Name: 9417650 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-SS-07

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 19:09

Operator ID: DANIEL
Quant Time : 941213 13:30
Injected at: 941213 11:57

456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800000
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110
100
90
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70
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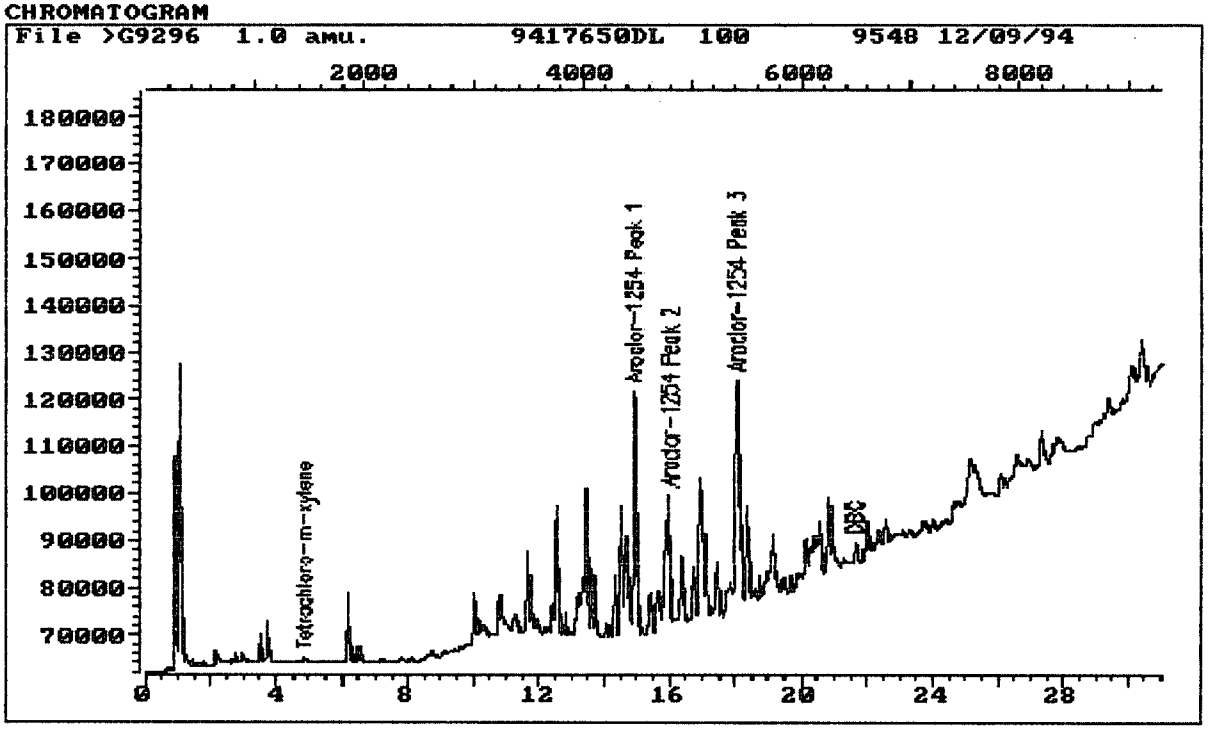
457

CHROMATOGRAM

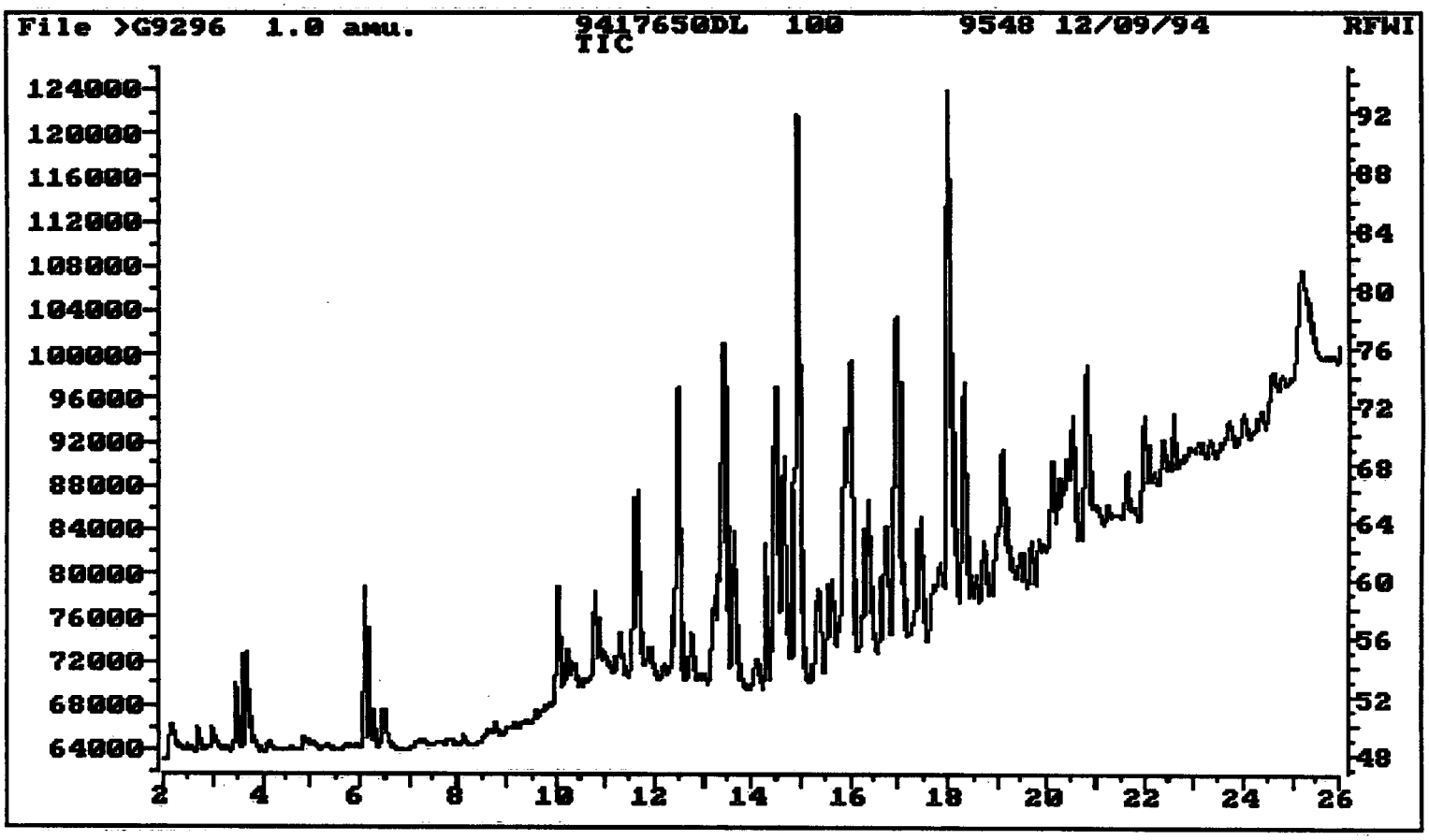


Data File: >G9296::G2 Quant Output File: ^G9296::QT
Name: 9417650DL 100 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-07

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941219 19:26

Operator ID: DANIEL
Quant Time : 941220 09:35
Injected at: 941220 06:36

458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9548 12/09/94
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100000
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84000
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459

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417651	DILUTION FACTOR	1
DATA FILE	>G9201	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/13/94
FIELD ID	BB-SS-08	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	2.14
B-BHC	U	2.14
Lindane	U	2.14
D-BHC	U	2.14
Heptachlor	U	2.14
Aldrin	U	2.14
Heptachlor Epoxide	U	2.14
Endosulfan I	U	2.14
A-Chlordane	U	2.14
G-Chlordane	U	2.14
Dieldrin	U	4.28
4,4'-DDE	U	4.28
Endrin	U	4.28
Endosulfan II	U	4.28
4,4'-DDD	U	4.28
Endrin Aldehyde	U	4.28
Endosulfan Sulfate	U	4.28
4,4'-DDT	U	4.28
Endrin Ketone	U	4.28
Methoxychlor	U	21.4
Toxaphene	U	42.8

Percent Solid of 77.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Soil
SAMPLE NUMBER	9417651DL 100	DILUTION FACTOR	100
DATA FILE	>G9297	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/20/94
FIELD ID	BB-SS-08	ANALYZED BY	DANIEL

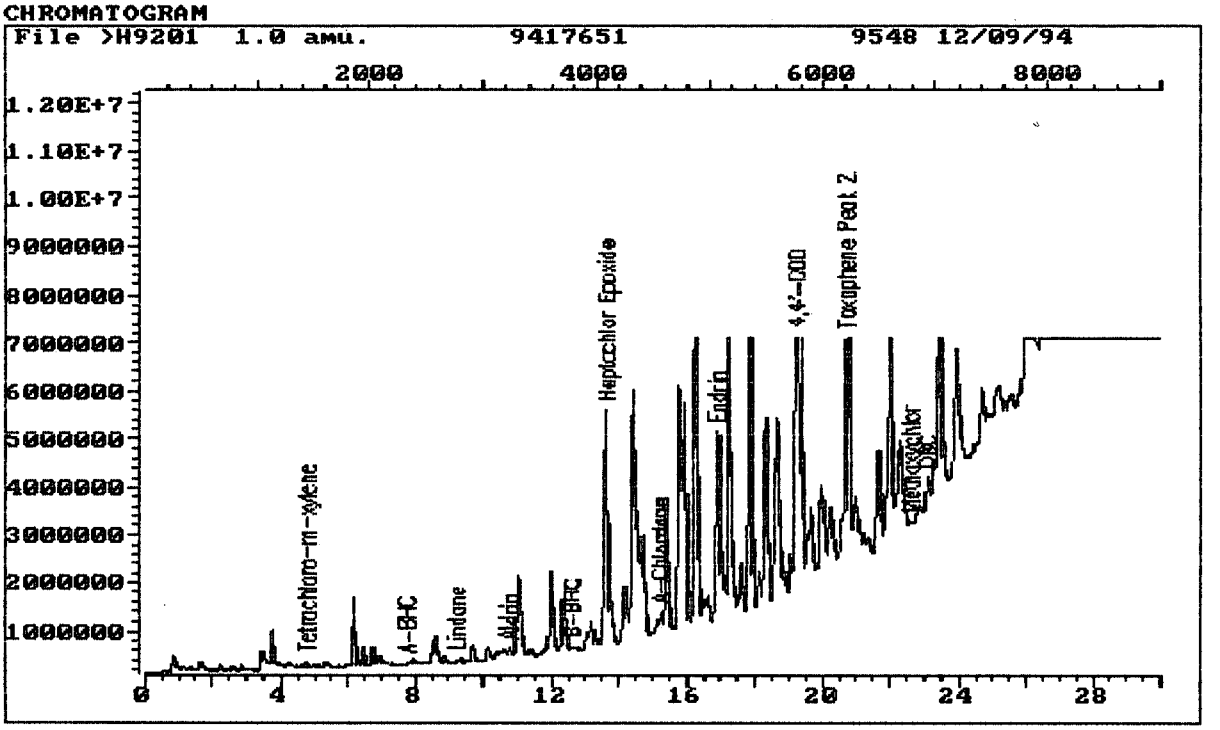
CAS#	COMPOUND	UG/KG		MDL
12674112	Aroclor-1016	U		4280
11104282	Aroclor-1221	U		8570
11141165	Aroclor-1232	U		4280
53469219	Aroclor-1242	U		4280
12672296	Aroclor-1248	U		4280
11097691	Aroclor-1254	98500	I	4280
11096825	Aroclor-1260	U		4280

Percent Solid of 77.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

CHROMATOGRAM



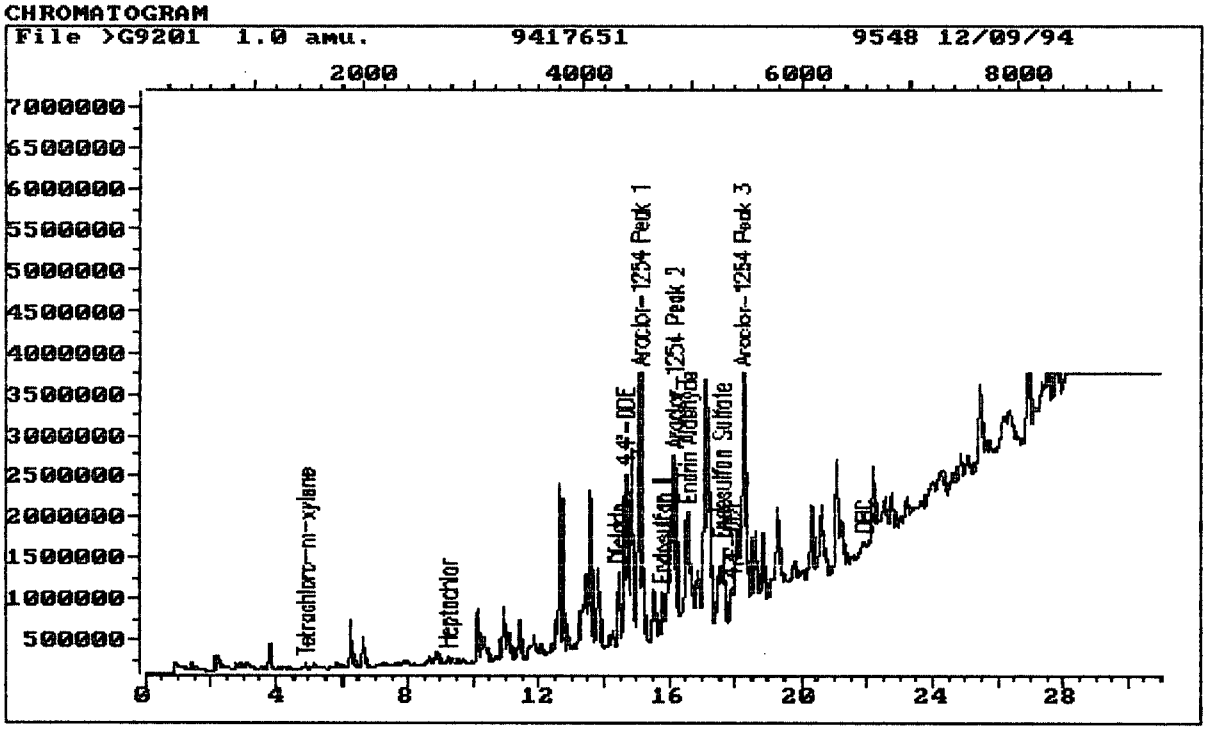
Data File: >H9201::G3 Quant Output File: ^H9201::QT
Name: 9417651 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-SS-08

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 19:09

Operator ID: DANIEL
Quant Time : 941213 13:32
Injected at: 941213 12:34

460

CHROMATOGRAM

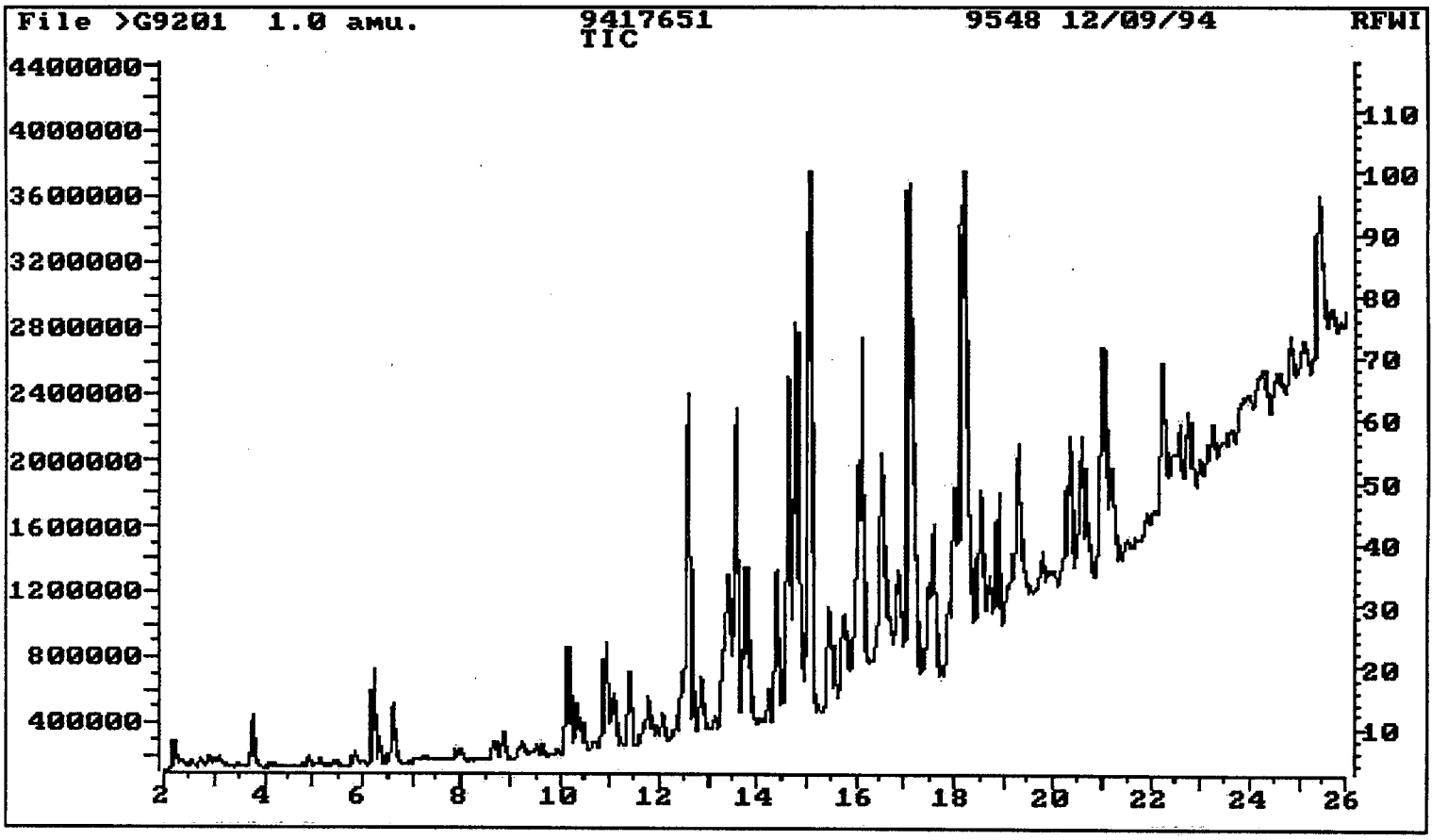


Data File: >G9201::G2 Quant Output File: ^G9201::QT
Name: 9417651 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-08

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941212 18:32

Operator ID: DANIEL
Quant Time : 941215 11:25
Injected at: 941213 11:57

461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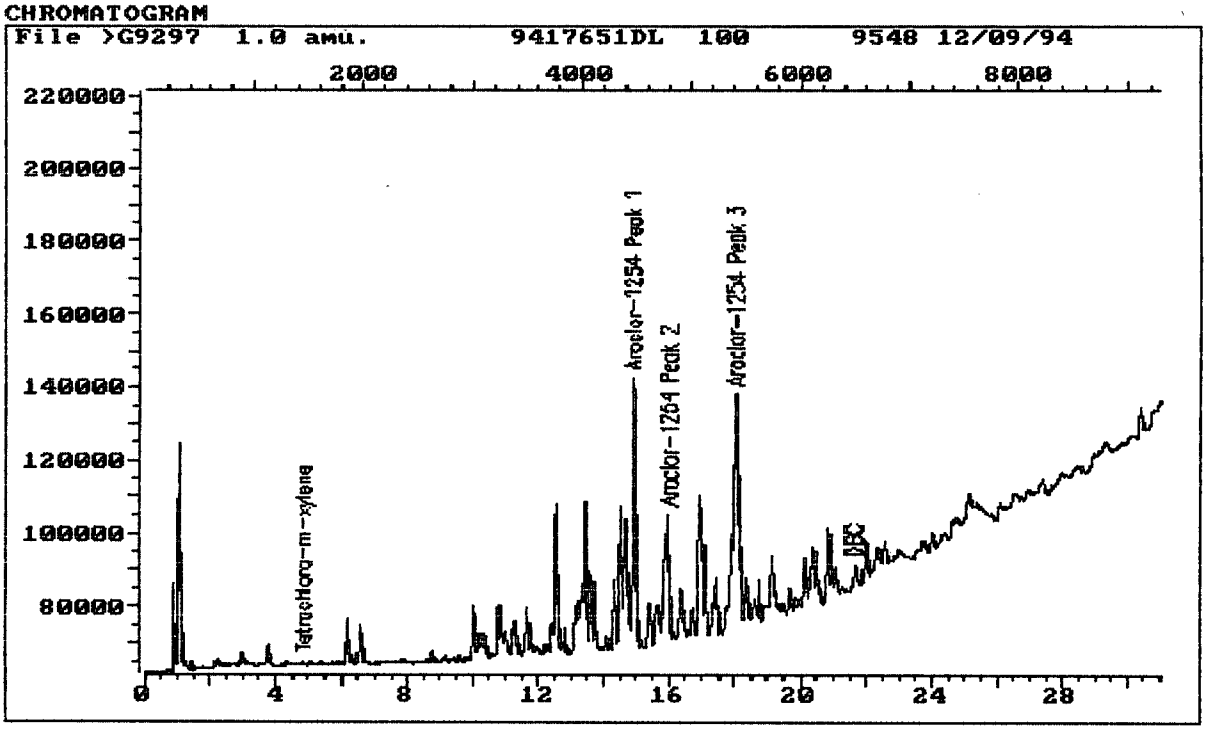
462

CHROMATOGRAM

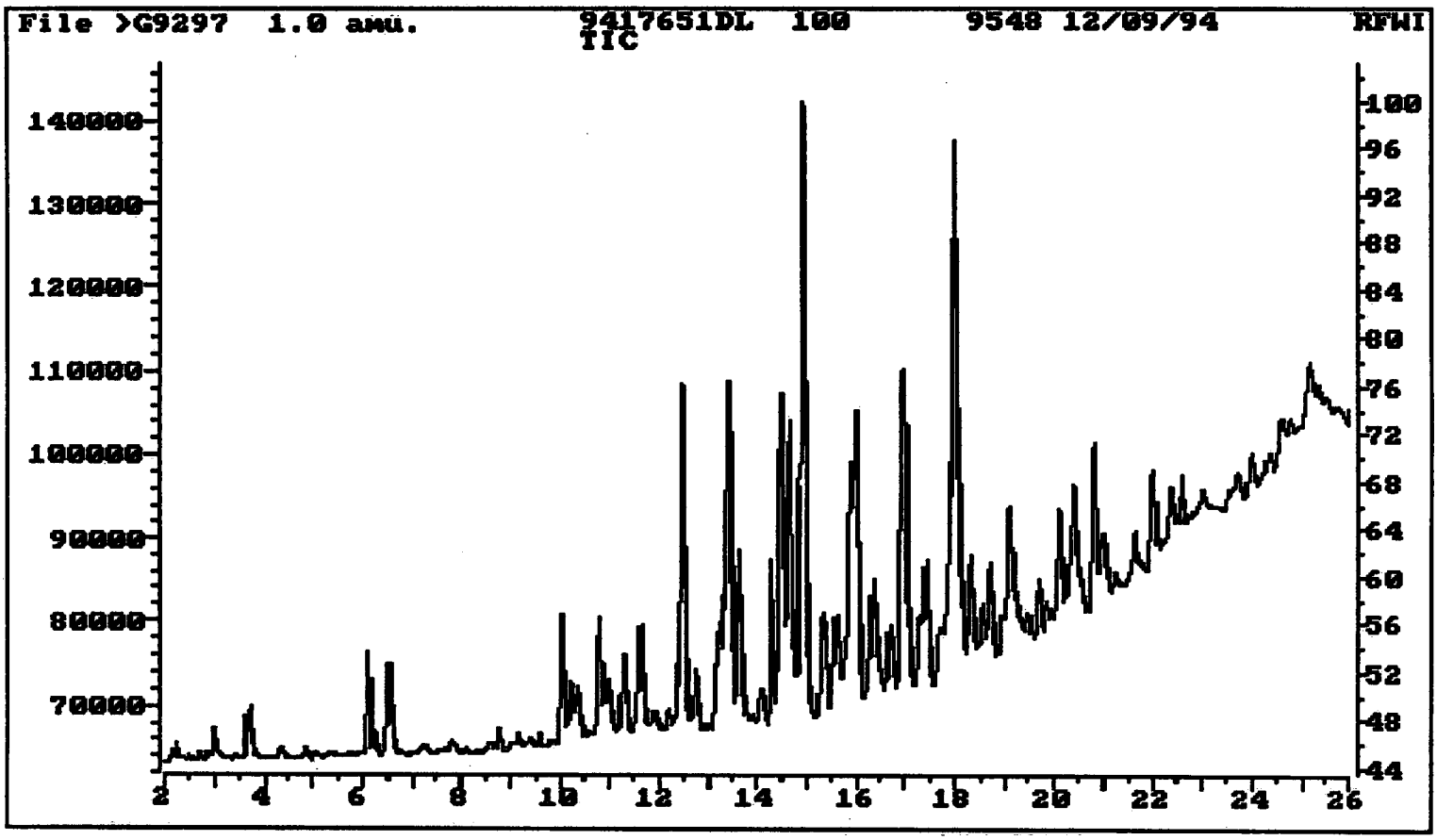


Data File: >G9297::G2 Quant Output File: ^G9297::QT
Name: 9417651DL 100 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-SS-08

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941219 19:26

Operator ID: DANIEL
Quant Time : 941220 09:41
Injected at: 941220 07:13

463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464

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417652	DILUTION FACTOR	10
DATA FILE	>G9370	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/22/94
FIELD ID	BB-DS-01	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	17.3
B-BHC	U	17.3
Lindane	U	17.3
D-BHC	U	17.3
Heptachlor	U	17.3
Aldrin	U	17.3
Heptachlor Epoxide	U	17.3
Endosulfan I	U	17.3
A-Chlordane	U	17.3
G-Chlordane	U	17.3
Dieldrin	U	34.7
4,4'-DDE	U	34.7
Endrin	U	34.7
Endosulfan II	U	34.7
4,4'-DDD	U	34.7
Endrin Aldehyde	U	34.7
Endosulfan Sulfate	U	34.7
4,4'-DDT	U	34.7
Endrin Ketone	U	34.7
Methoxychlor	U	173
Toxaphene	U	347

Percent Solid of 96.2 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

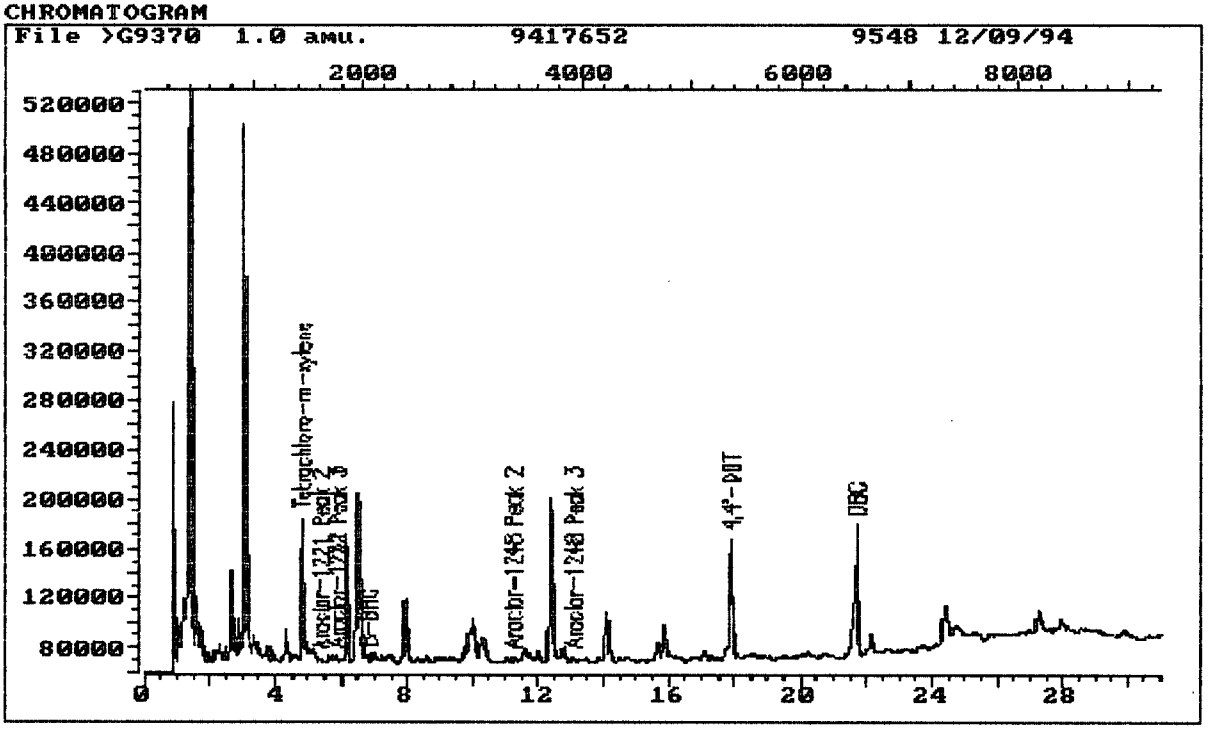
CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417652	DILUTION FACTOR	10
DATA FILE	>G9370	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/22/94
FIELD ID	BB-DS-01	ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/KG	MDL
12674112	Aroclor-1016	U	347
11104282	Aroclor-1221	U	693
11141165	Aroclor-1232	U	347
53469219	Aroclor-1242	U	347
12672296	Aroclor-1248	U	347
11097691	Aroclor-1254	U	347
11096825	Aroclor-1260	U	347

Percent Solid of 96.2 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



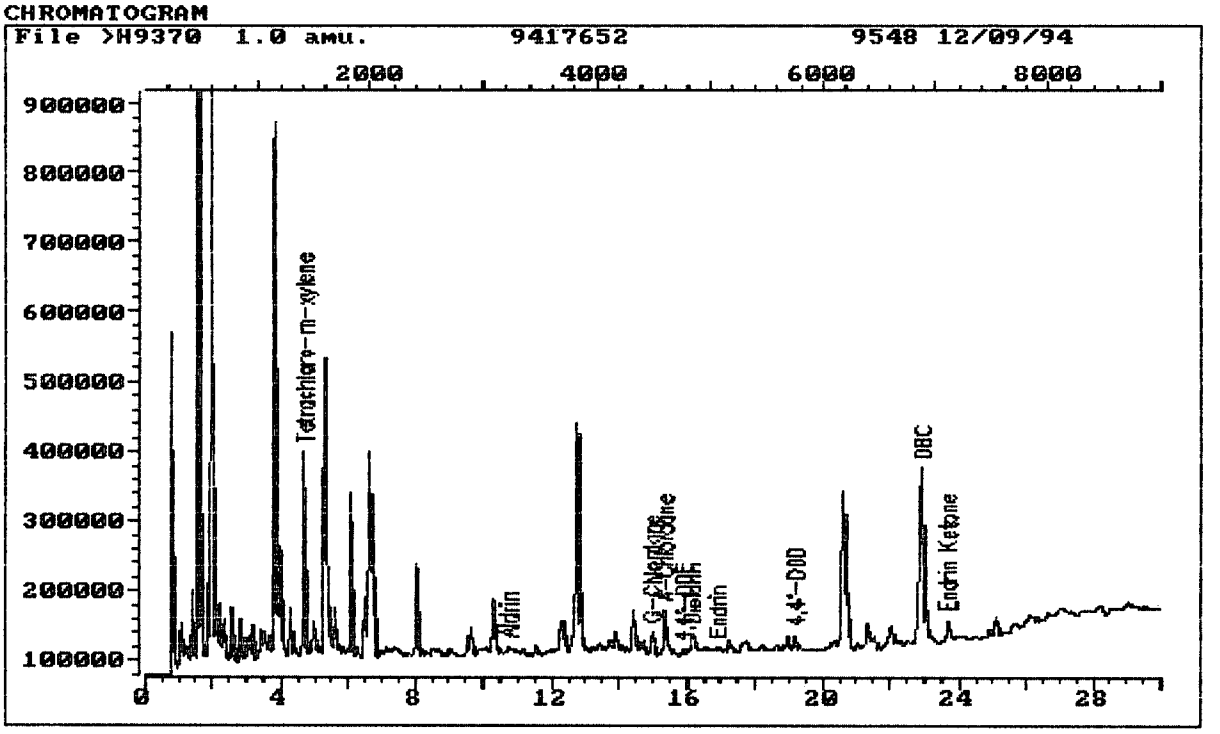
Data File: >G9370::G3 Quant Output File: ^G9370::QT
Name: 9417652 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DS-01

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941223 09:00
Injected at: 941222 23:58

465

CHROMATOGRAM

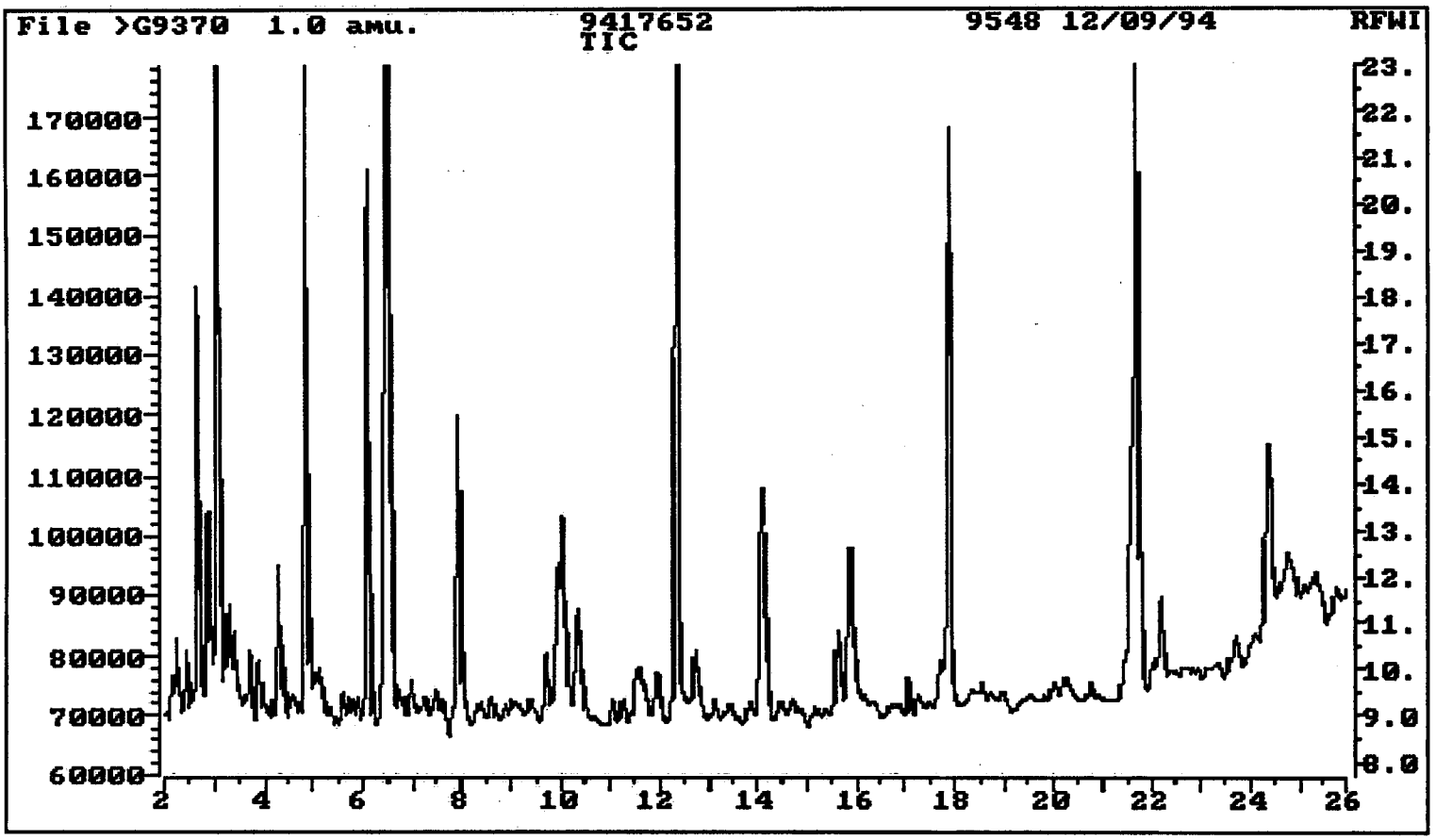


Data File: >H9370::G3 Quant Output File: ^H9370::QT
Name: 9417652 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DS-01

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941223 09:34
Injected at: 941223 00:35

466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467

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solid
SAMPLE NUMBER	9417653	DILUTION FACTOR	10
DATA FILE	>G9375	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-02	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	17.2
B-BHC	U	17.2
Lindane	U	17.2
D-BHC	U	17.2
Heptachlor	U	17.2
Aldrin	U	17.2
Heptachlor Epoxide	U	17.2
Endosulfan I	U	17.2
A-Chlordane	U	17.2
G-Chlordane	U	17.2
Dieldrin	U	34.4
4,4'-DDE	U	34.4
Endrin	U	34.4
Endosulfan II	U	34.4
4,4'-DDD	U	34.4
Endrin Aldehyde	U	34.4
Endosulfan Sulfate	U	34.4
4,4'-DDT	U	34.4
Endrin Ketone	U	34.4
Methoxychlor	U	172
Toxaphene	U	344

Percent Solid of 97.0 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

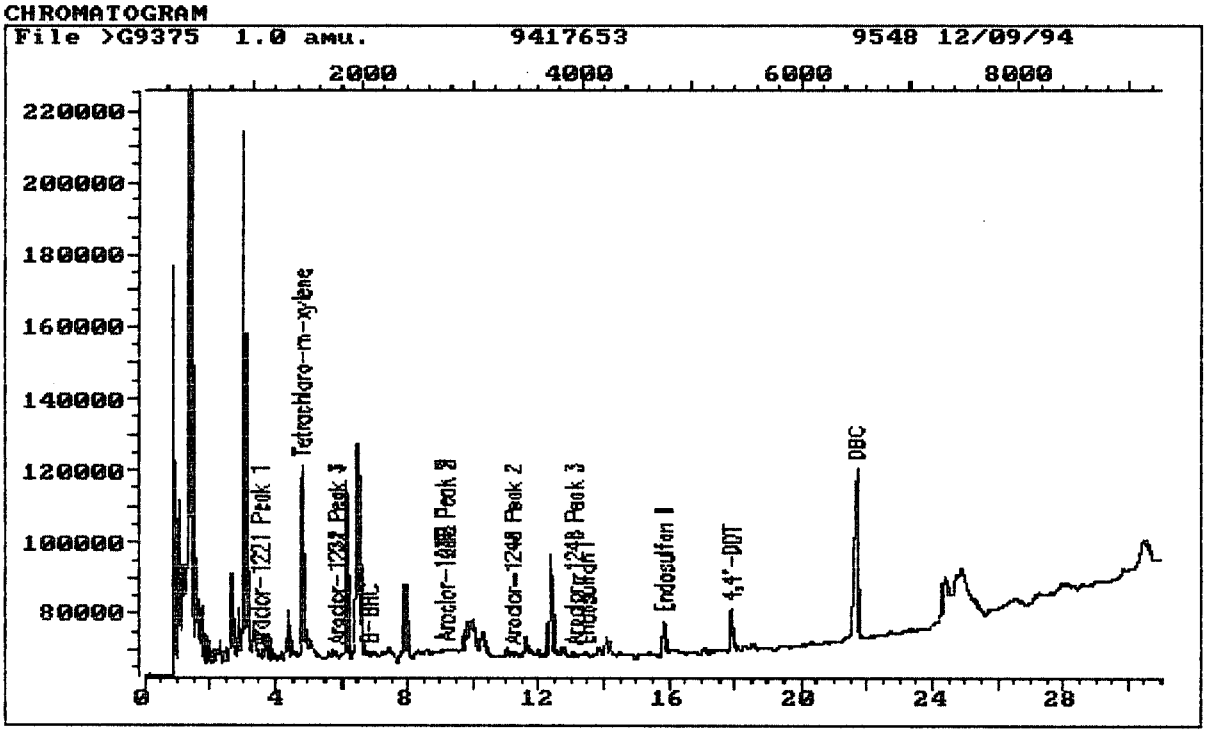
CASE NUMBER	9548	MATRIX	Solid
SAMPLE NUMBER	9417653	DILUTION FACTOR	10
DATA FILE	>G9375	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-02	ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/KG	MDL
12674112	Aroclor-1016	U	344
11104282	Aroclor-1221	U	687
11141165	Aroclor-1232	U	344
53469219	Aroclor-1242	U	344
12672296	Aroclor-1248	U	344
11097691	Aroclor-1254	U	344
11096825	Aroclor-1260	U	344

Percent Solid of 97.0 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



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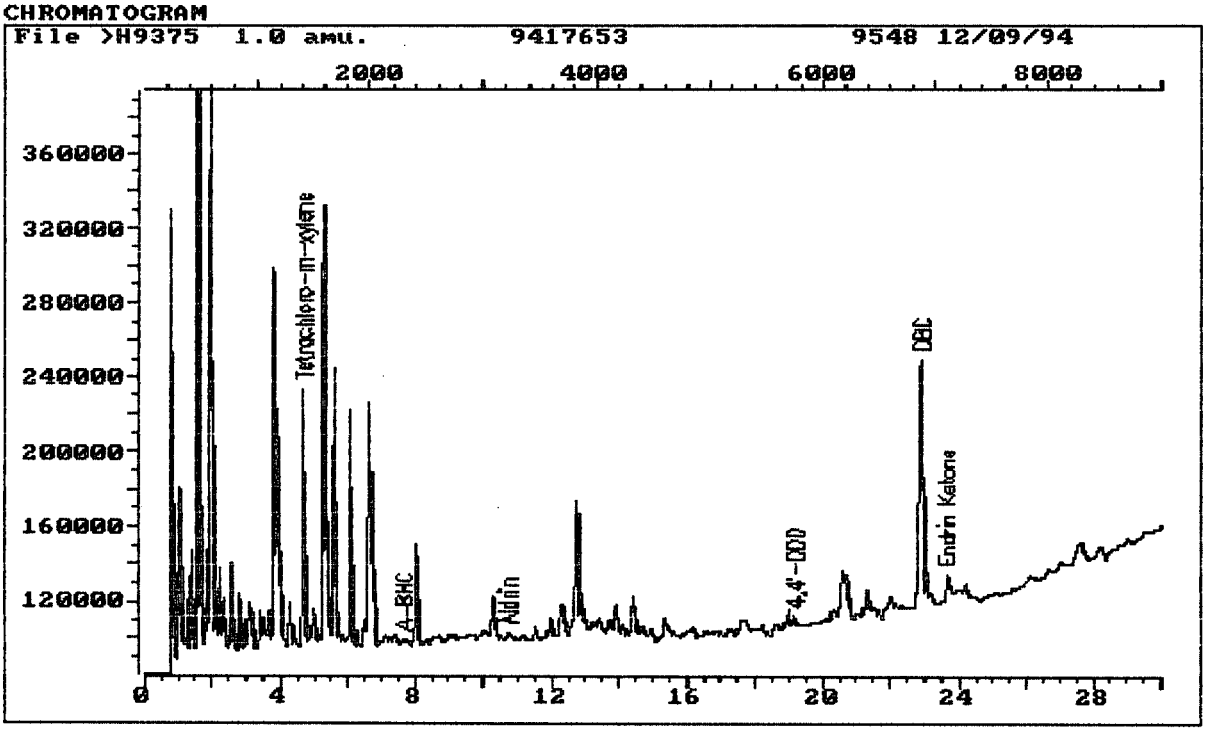
Name: 9417653 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DS-02

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941223 09:15
Injected at: 941223 03:04

468

CHROMATOGRAM

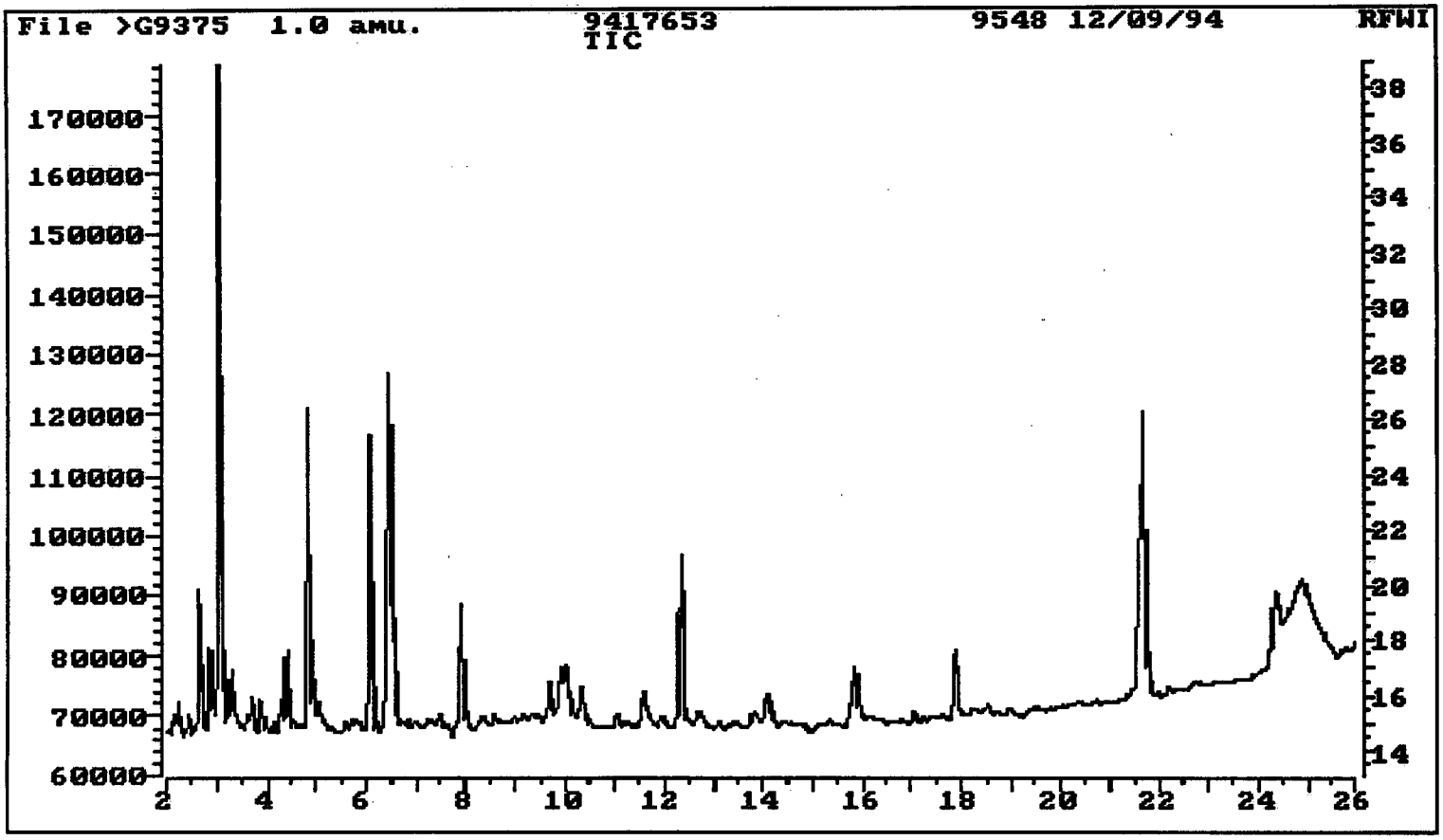


Data File: >H9375::G3 Quant Output File: ^H9375::QT
Name: 9417653 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DS-02

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941223 09:39
Injected at: 941223 03:41

469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470

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417654	DILUTION FACTOR	10
DATA FILE	>G9376	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-03	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	25.2
B-BHC	U	25.2
Lindane	U	25.2
D-BHC	U	25.2
Heptachlor	U	25.2
Aldrin	U	25.2
Heptachlor Epoxide	109	25.2
Endosulfan I	U	25.2
A-Chlordane	U	25.2
G-Chlordane	U	25.2
Dieldrin	262	50.4
4,4'-DDE	U	50.4
Endrin	U	50.4
Endosulfan II	U	50.4
4,4'-DDD	93.9	50.4
Endrin Aldehyde	U	50.4
Endosulfan Sulfate	U	50.4
4,4'-DDT	410	50.4
Endrin Ketone	U	50.4
Methoxychlor	U	252
Toxaphene	U	504

Percent Solid of 66.1 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

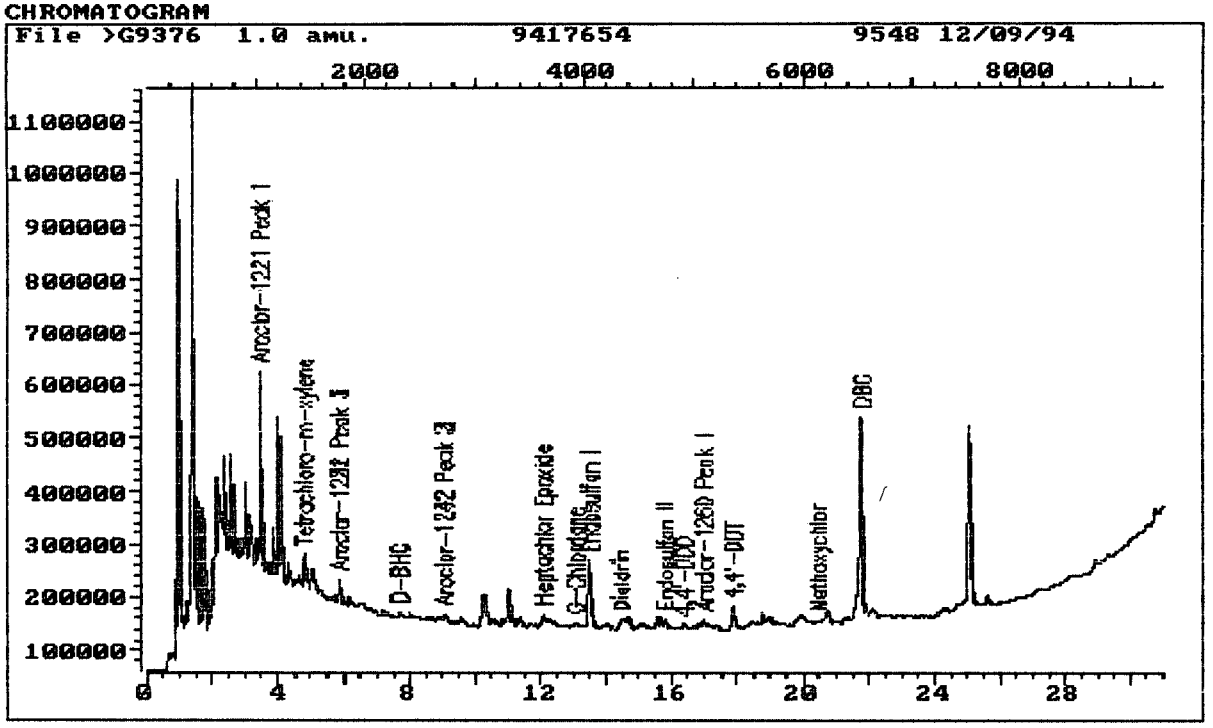
CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417654	DILUTION FACTOR	10
DATA FILE	>G9376	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-03	ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/KG	MDL
12674112	Aroclor-1016	U	504
11104282	Aroclor-1221	U	1010
11141165	Aroclor-1232	U	504
53469219	Aroclor-1242	U	504
12672296	Aroclor-1248	U	504
11097691	Aroclor-1254	U	504
11096825	Aroclor-1260	U	504

Percent Solid of 66.1 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



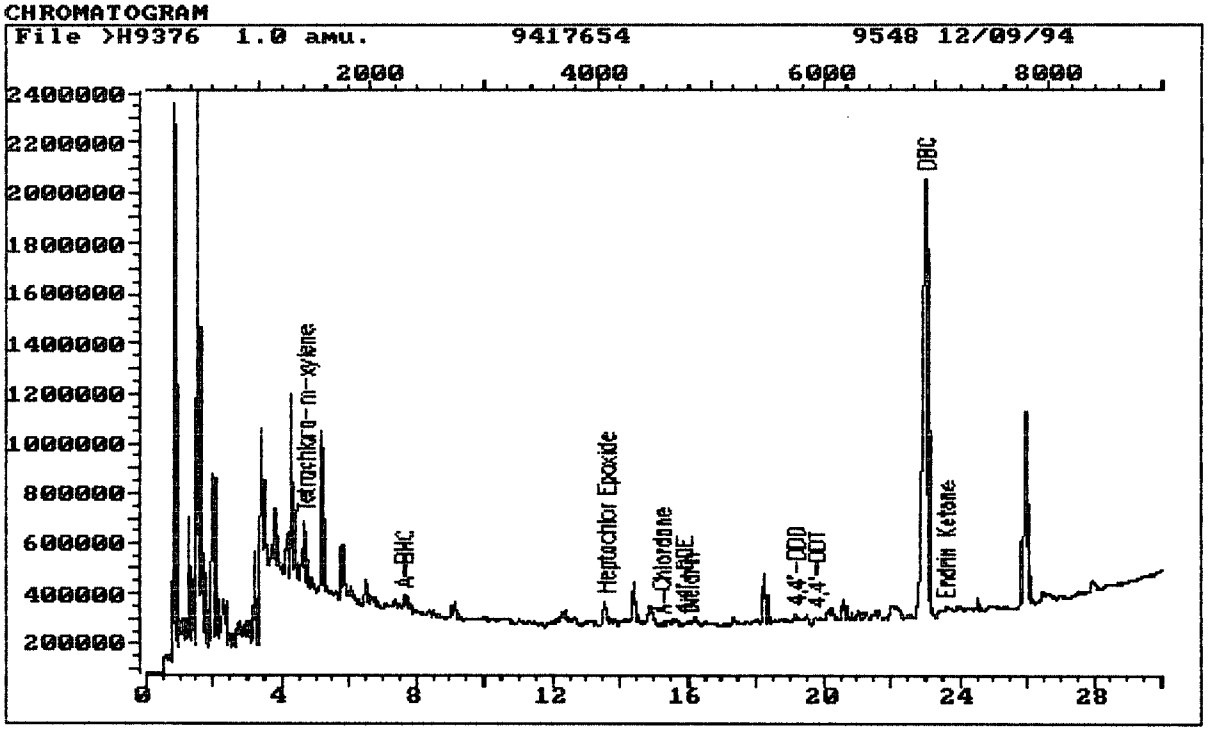
Data File: >G9376::G3 Quant Output File: ^G9376::QT
Name: 9417654 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DS-03

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941223 09:17
Injected at: 941223 03:41

471

CHROMATOGRAM

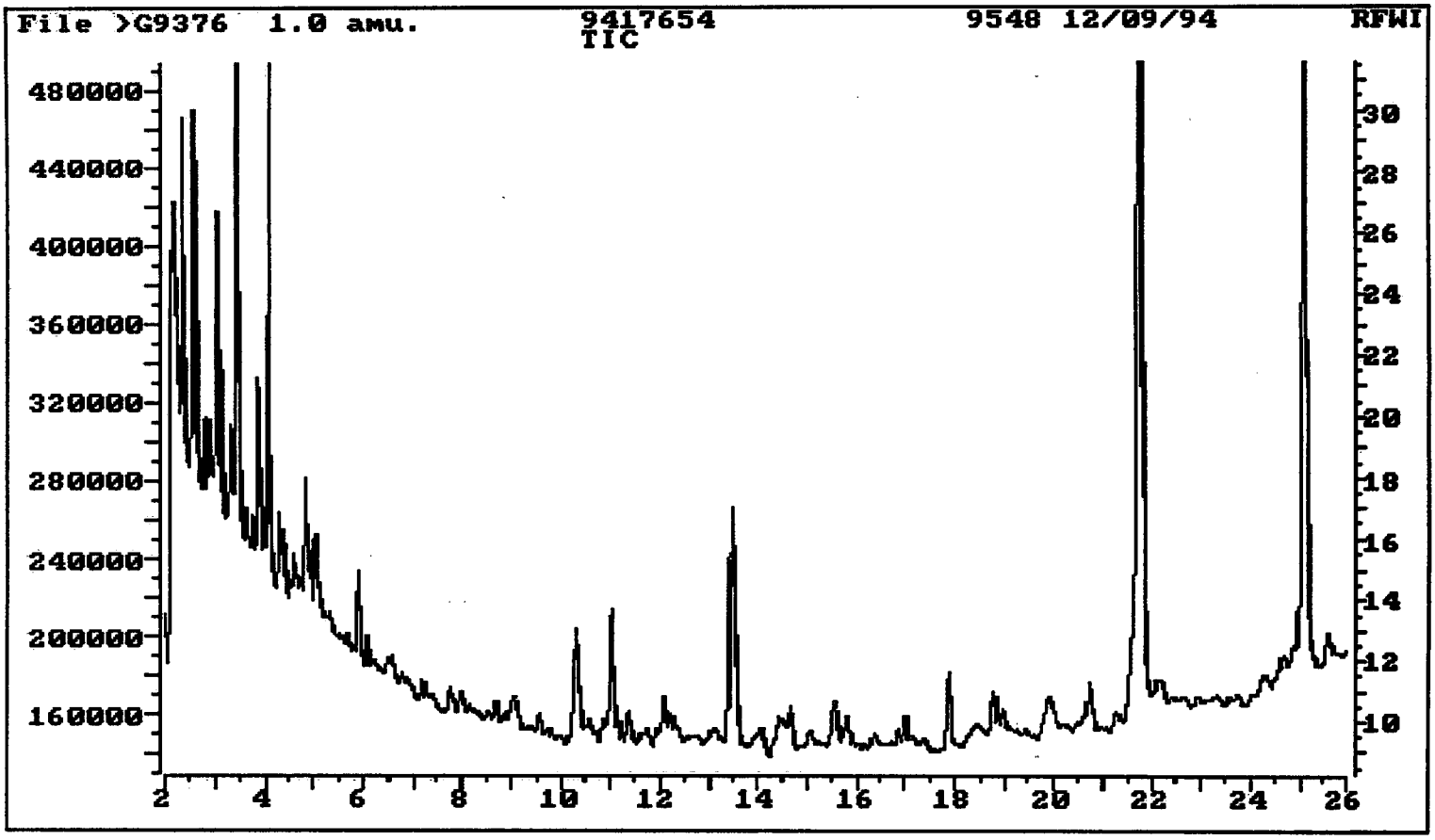


Data File: >H9376::G3 Quant Output File: ^H9376::QT
Name: 9417654 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DS-03

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941223 09:40
Injected at: 941223 04:19

472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473

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417655	DILUTION FACTOR	10
DATA FILE	>G9377	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-04	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	21.4
B-BHC	U	21.4
Lindane	U	21.4
D-BHC	U	21.4
Heptachlor	189	21.4
Aldrin	U	21.4
Heptachlor Epoxide	112	21.4
Endosulfan I	U	21.4
A-Chlordane	U	21.4
G-Chlordane	U	21.4
Dieldrin	U	42.7
4,4'-DDE	154	42.7
Endrin	U	42.7
Endosulfan II	U	42.7
4,4'-DDD	266	42.7
Endrin Aldehyde	U	42.7
Endosulfan Sulfate	U	42.7
4,4'-DDT	251	42.7
Endrin Ketone	U	42.7
Methoxychlor	U	214
Toxaphene	U	427

Percent Solid of 78.0 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

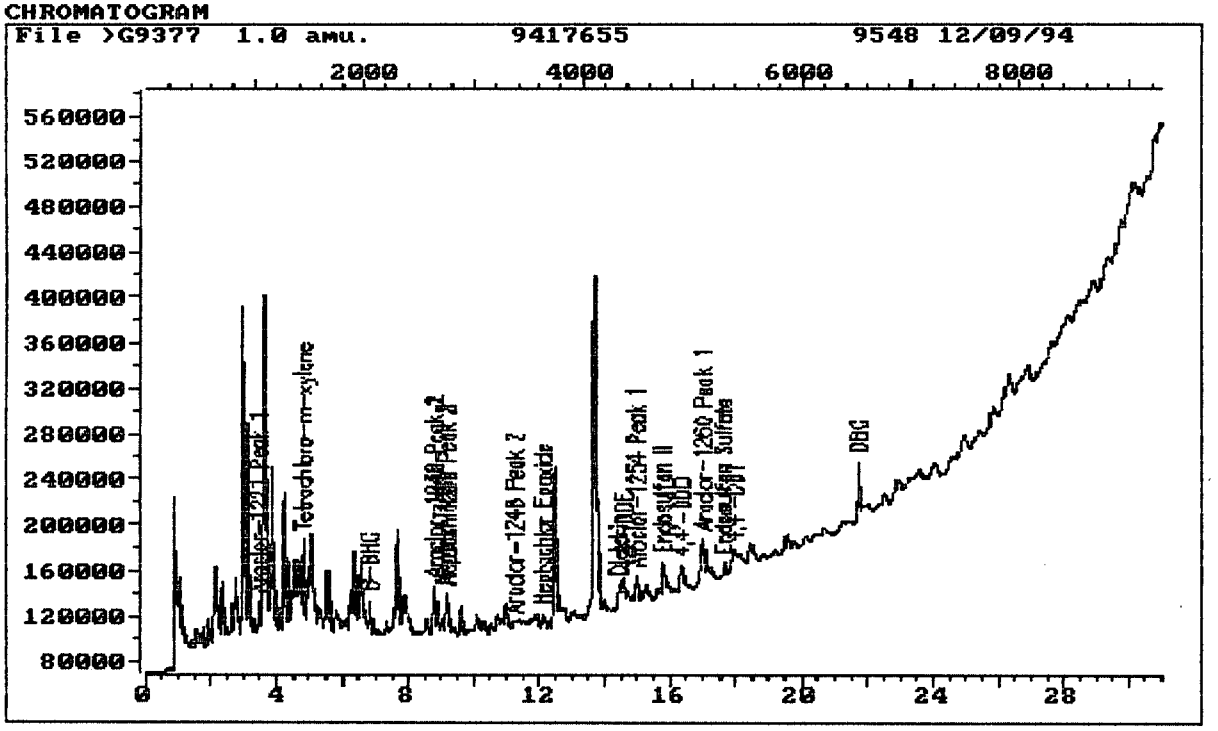
CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417655	DILUTION FACTOR	10
DATA FILE	>G9377	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-04	ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/KG	MDL
12674112	Aroclor-1016	U	427
11104282	Aroclor-1221	U	855
11141165	Aroclor-1232	U	427
53469219	Aroclor-1242	U	427
12672296	Aroclor-1248	U	427
11097691	Aroclor-1254	U	427
11096825	Aroclor-1260	U	427

Percent Solid of 78.0 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



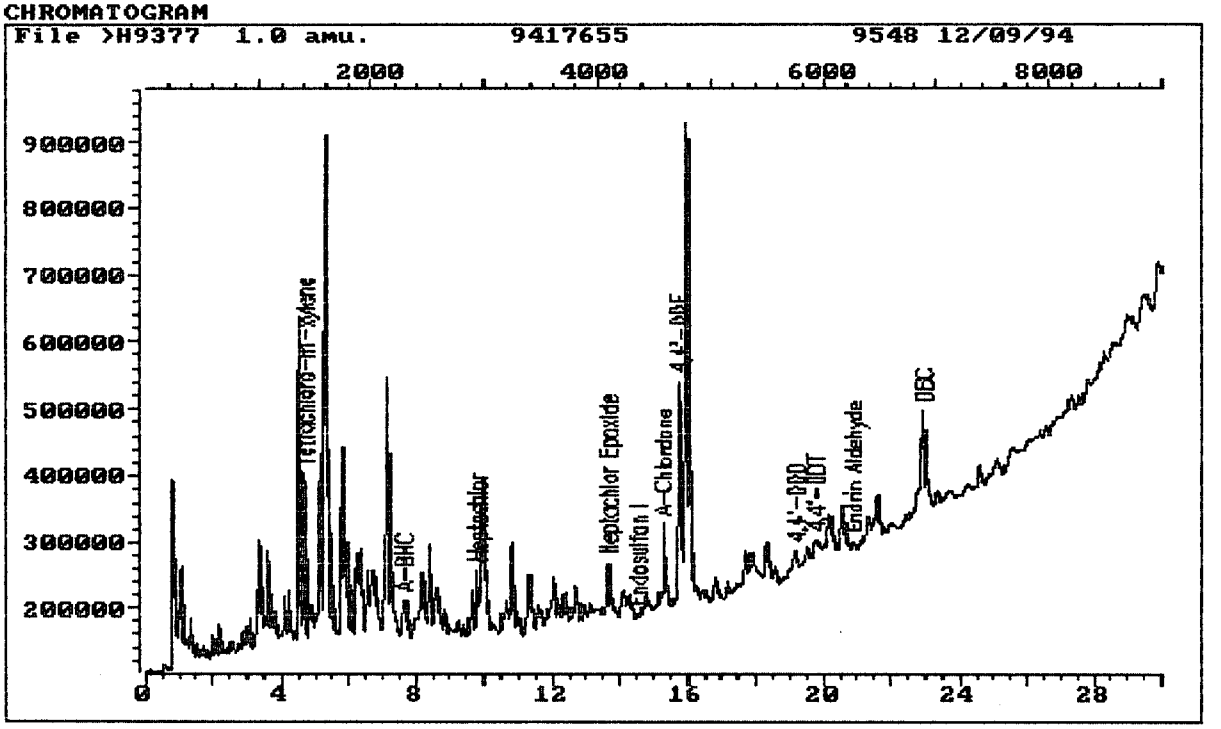
Data File: >G9377::G3 Quant Output File: ^G9377::QT
Name: 9417655 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DS-04

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941223 09:19
Injected at: 941223 04:19

474

CHROMATOGRAM



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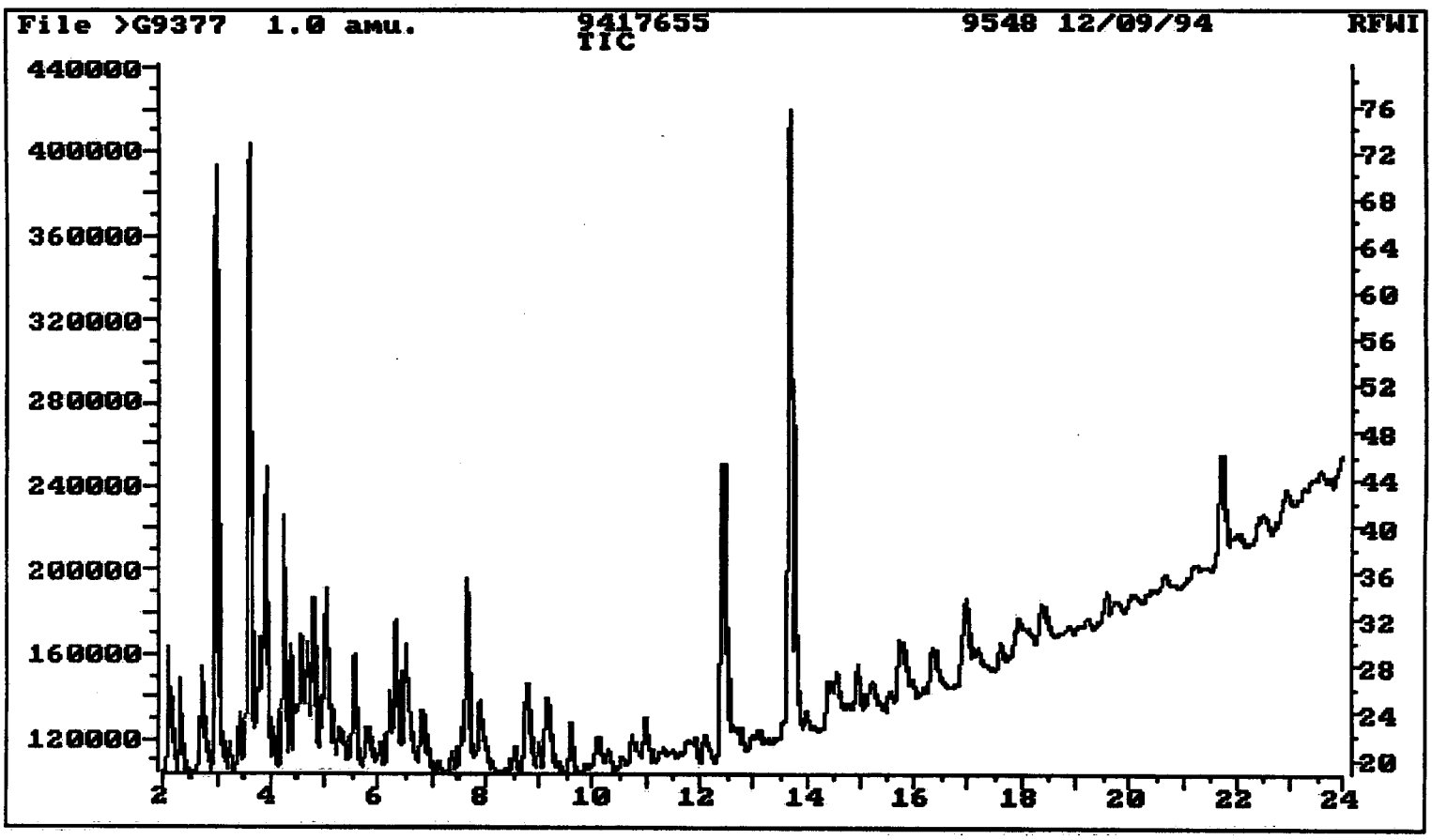
Name: 9417655 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DS-04

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941223 09:41
Injected at: 941223 04:56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476

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417656	DILUTION FACTOR	10
DATA FILE	>G9378	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-05	ANALYZED BY	DANIEL

COMPOUND	UG/KG		MDL
A-BHC	U	J	43.3
B-BHC	U		43.3
Lindane	U		43.3
D-BHC	U		43.3
Heptachlor	U		43.3
Aldrin	U		43.3
Heptachlor Epoxide	U		43.3
Endosulfan I	U		43.3
A-Chlordane	12.0		43.3
G-Chlordane	16.4		43.3
Dieldrin	U		86.6
4,4'-DDE	U		86.6
Endrin	U		86.6
Endosulfan II	U		86.6
4,4'-DDD	U		86.6
Endrin Aldehyde	U		86.6
Endosulfan Sulfate	U		86.6
4,4'-DDT	U		86.6
Endrin Ketone	U		86.6
Methoxychlor	U		433
Toxaphene	U	J	866

Percent Solid of 38.5 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

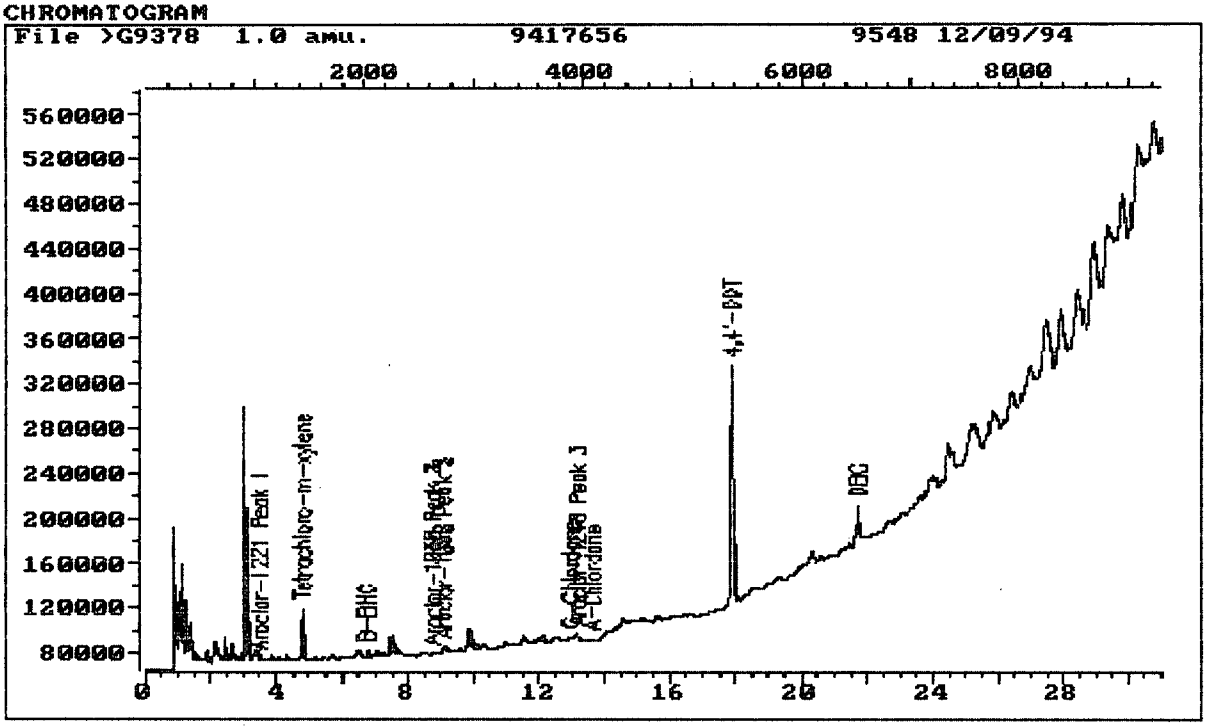
CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417656	DILUTION FACTOR	10
DATA FILE	>G9378	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-05	ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/KG		MDL
12674112	Aroclor-1016	U	J	866
11104282	Aroclor-1221	U		1730
11141165	Aroclor-1232	U		866
53469219	Aroclor-1242	U		866
12672296	Aroclor-1248	U		866
11097691	Aroclor-1254	U		866
11096825	Aroclor-1260	U	J	866

Percent Solid of 38.5 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



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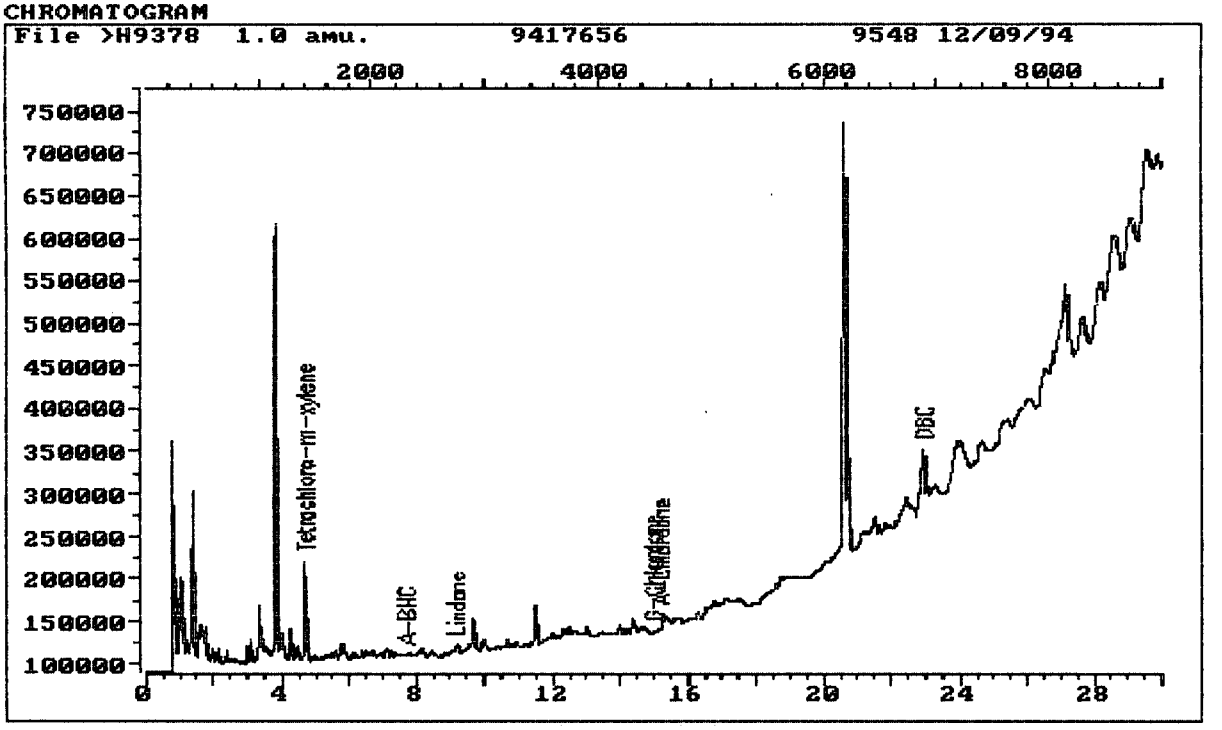
Name: 9417656 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DS-05

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941223 09:21
Injected at: 941223 04:56

CHROMATOGRAM

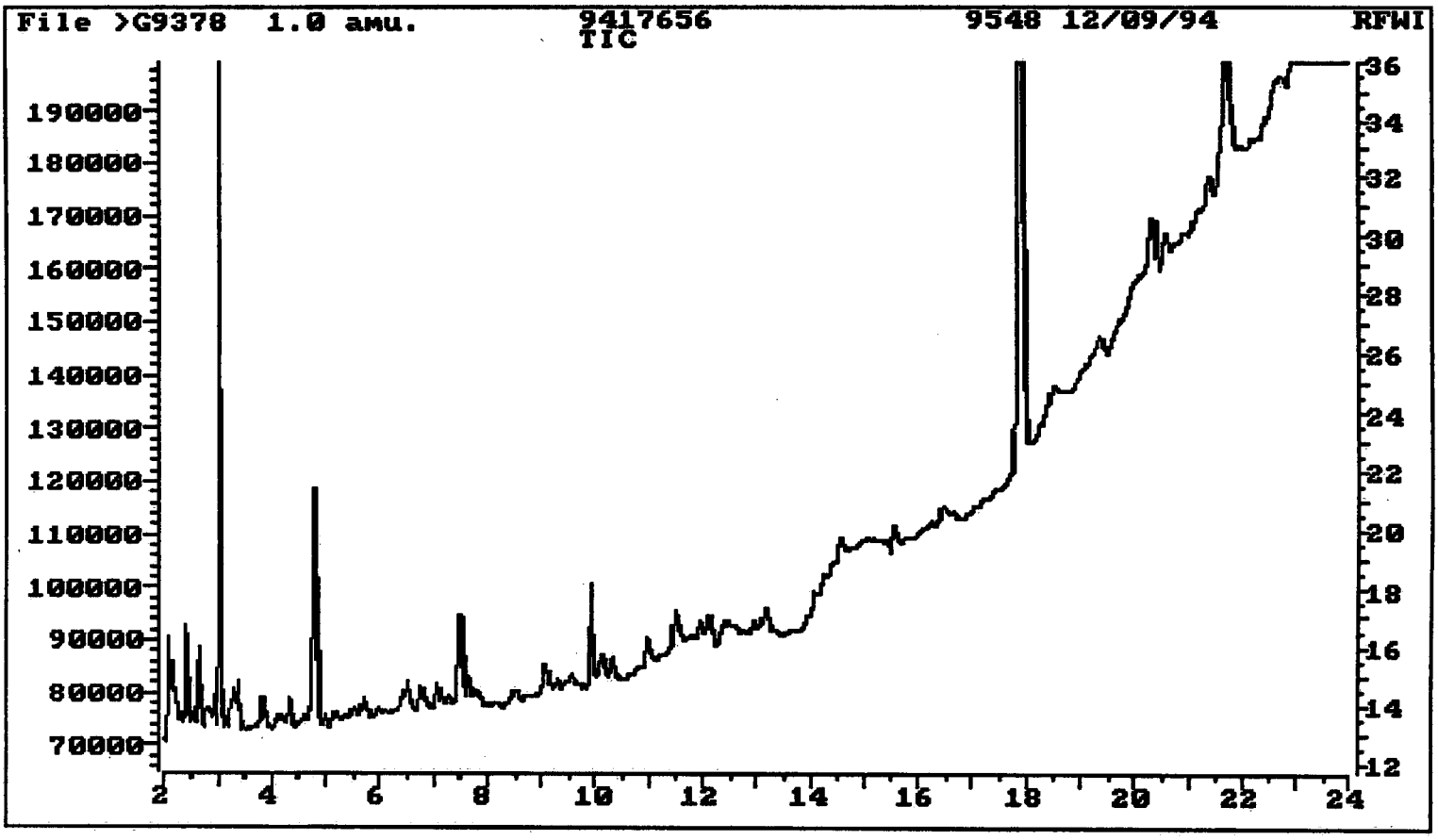


Data File: >H9378::G3 Quant Output File: ^H9378::QT
Name: 9417656 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DS-05

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941223 09:43
Injected at: 941223 05:33

478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479

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417657	DILUTION FACTOR	10
DATA FILE	>G9379	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-06	ANALYZED BY	DANIEL

COMPOUND	UG/KG		MDL
A-BHC	417	J	33.5
B-BHC	U		33.5
Lindane	125		33.5
D-BHC	U		33.5
Heptachlor	12.2 J		33.5
Aldrin	U		33.5
Heptachlor Epoxide	259		33.5
Endosulfan I	U		33.5
A-Chlordane	U		33.5
G-Chlordane	U		33.5
Dieldrin	U		67.1
4,4'-DDE	136		67.1
Endrin	U		67.1
Endosulfan II	U		67.1
4,4'-DDD	1170		67.1
Endrin Aldehyde	U		67.1
Endosulfan Sulfate	U		67.1
4,4'-DDT	987		67.1
Endrin Ketone	U		67.1
Methoxychlor	U		335
Toxaphene	U	J	671

Percent Solid of 49.7 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

98

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

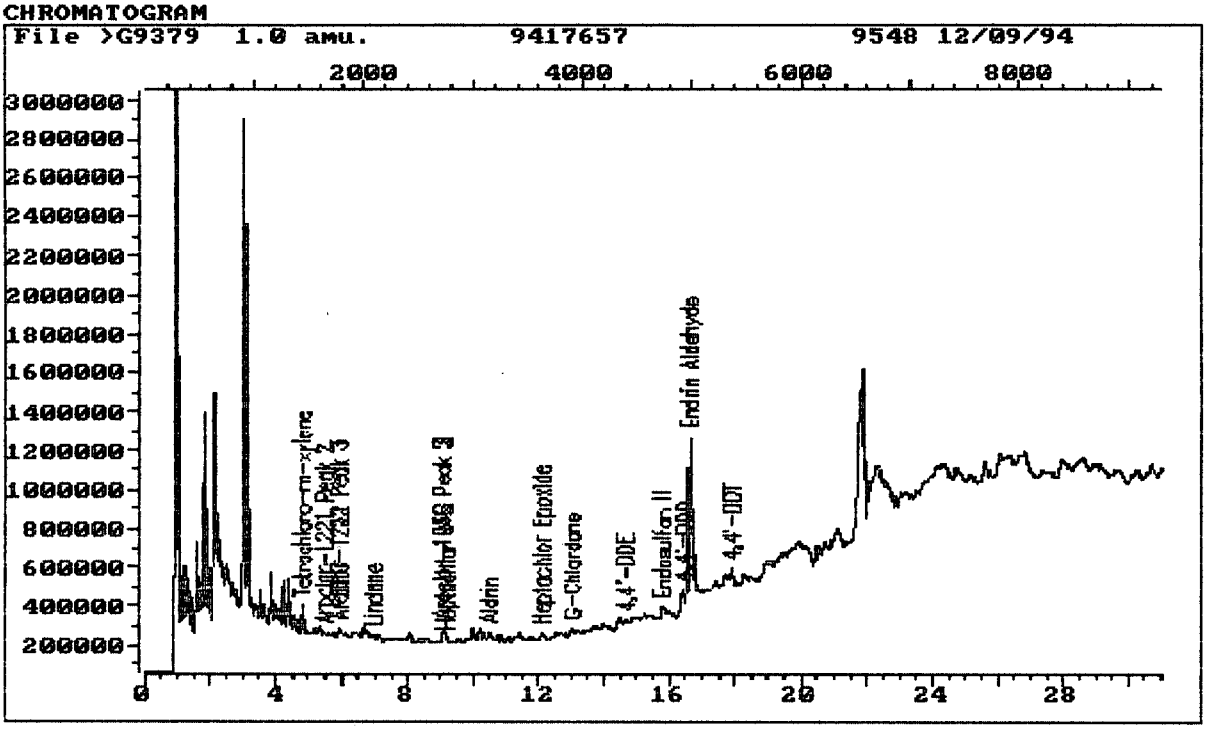
CASE NUMBER	9548	MATRIX	Sludge
SAMPLE NUMBER	9417657	DILUTION FACTOR	10
DATA FILE	>G9379	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-06	ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/KG		MDL
12674112	Aroclor-1016	U	J	671
11104282	Aroclor-1221	U		1340
11141165	Aroclor-1232	U		671
53469219	Aroclor-1242	U		671
12672296	Aroclor-1248	U		671
11097691	Aroclor-1254	U		671
11096825	Aroclor-1260	U	J	671

Percent Solid of 49.7 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



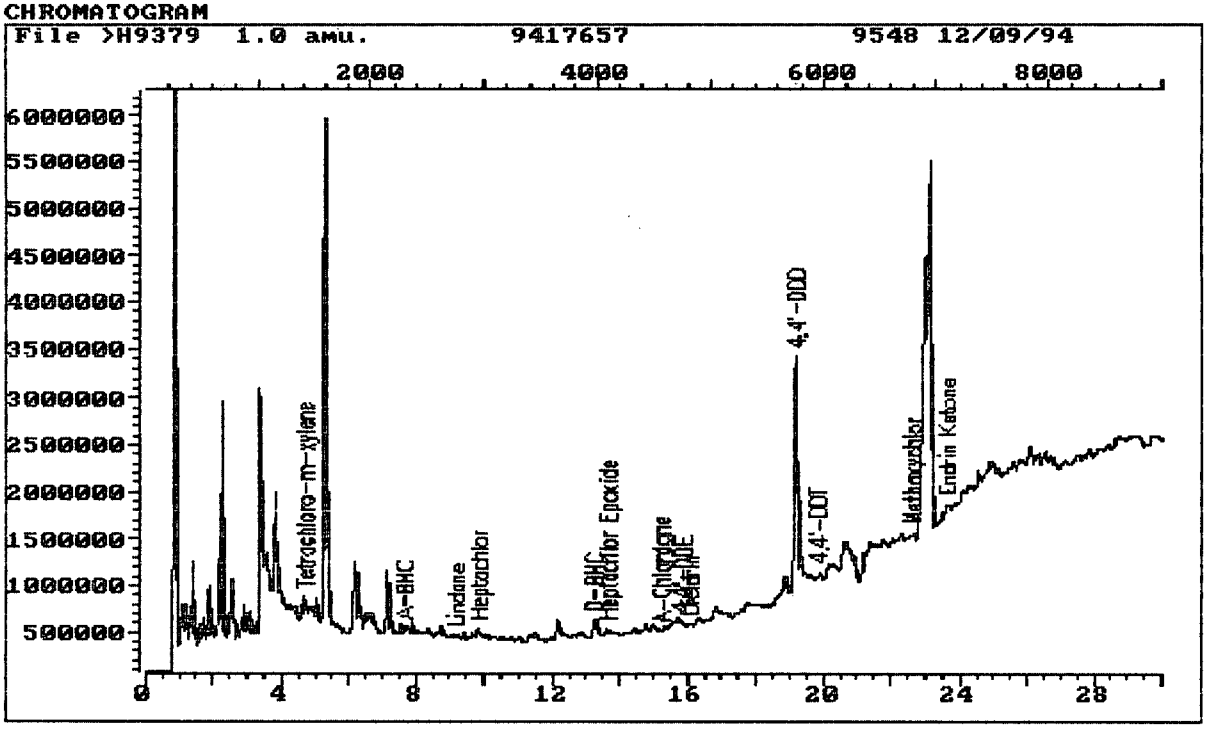
Data File: >G9379::G3 Quant Output File: ^G9379::QT
Name: 9417657 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DS-06

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941223 09:23
Injected at: 941223 05:33

480

CHROMATOGRAM

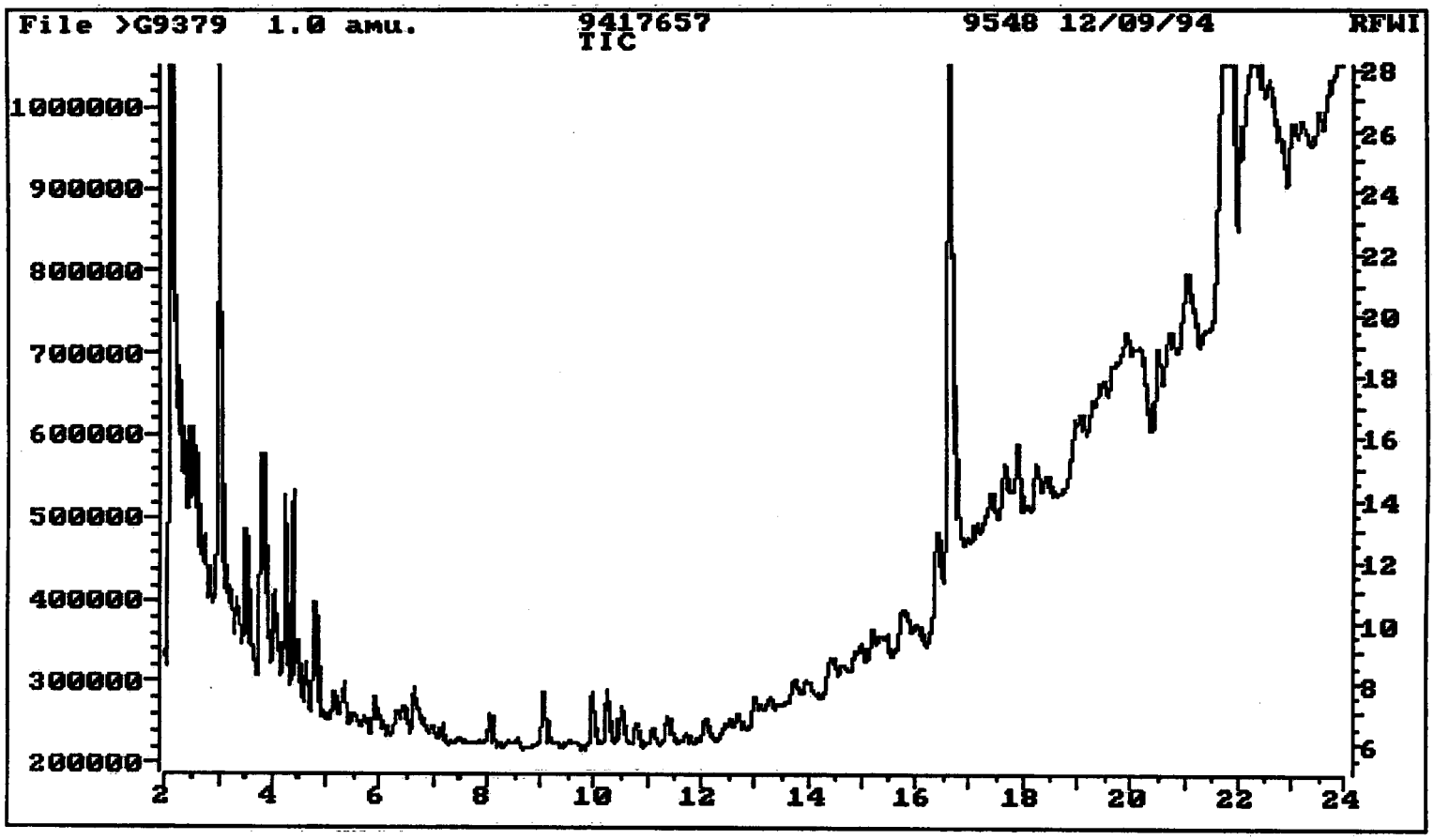


Data File: >H9379::G3 Quant Output File: ^H9379::QT
Name: 9417657 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DS-06

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941223 09:44
Injected at: 941223 06:10

481


File >G9379 1.0 amu.
9417657
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9548 12/09/94
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482

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solid
SAMPLE NUMBER	9417658	DILUTION FACTOR	1
DATA FILE	>G9382	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-07	ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	1.71
B-BHC	U	1.71
Lindane	U	1.71
D-BHC	U	1.71
Heptachlor	U	1.71
Aldrin	U	1.71
Heptachlor Epoxide	U	1.71
Endosulfan I	U	1.71
A-Chlordane	U	1.71
G-Chlordane	U	1.71
Dieldrin	U	3.43
4,4'-DDE	U	3.43
Endrin	U	3.43
Endosulfan II	U	3.43
4,4'-DDD	U	3.43
Endrin Aldehyde	U	3.43
Endosulfan Sulfate	U	3.43
4,4'-DDT	U	3.43
Endrin Ketone	U	3.43
Methoxychlor	U	17.1
Toxaphene	U	34.3

Percent Solid of 97.2 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

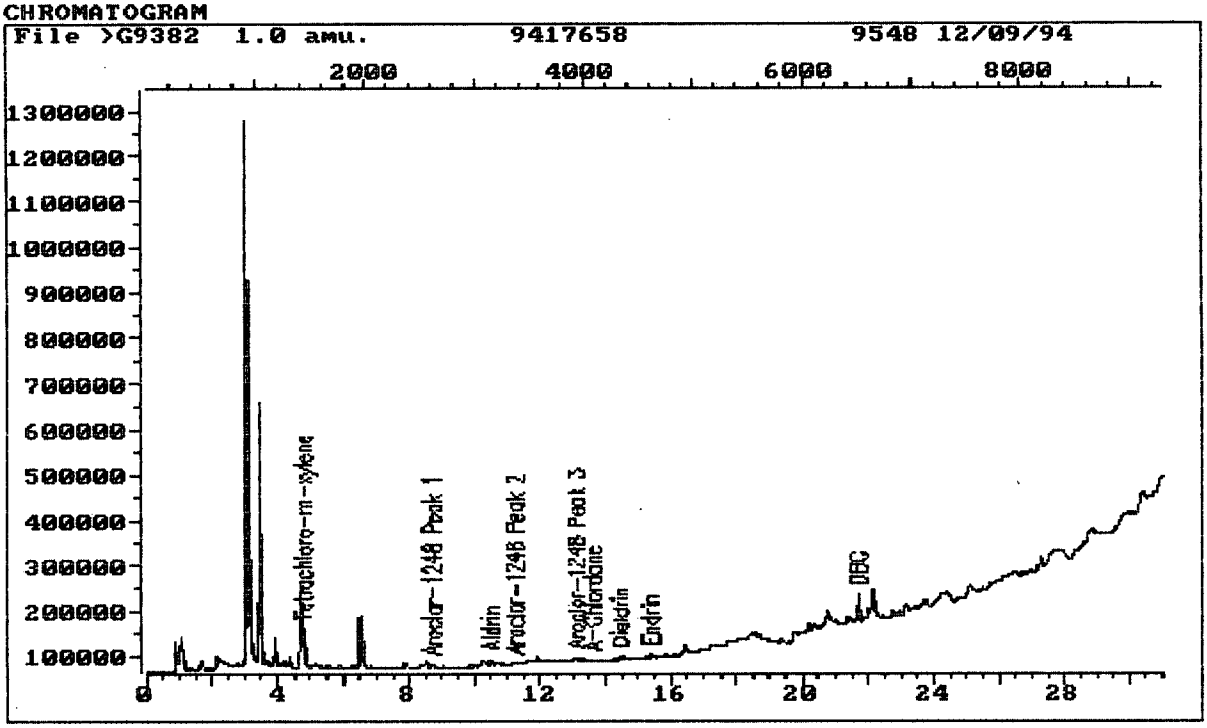
CASE NUMBER	9548	MATRIX	Solid
SAMPLE NUMBER	9417658	DILUTION FACTOR	1
DATA FILE	>G9382	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DS-07	ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/KG	MDL
12674112	Aroclor-1016	U	34.3
11104282	Aroclor-1221	U	68.6
11141165	Aroclor-1232	U	34.3
53469219	Aroclor-1242	U	34.3
12672296	Aroclor-1248	77.8	34.3
11097691	Aroclor-1254	U	34.3
11096825	Aroclor-1260	U	34.3

Percent Solid of 97.2 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM

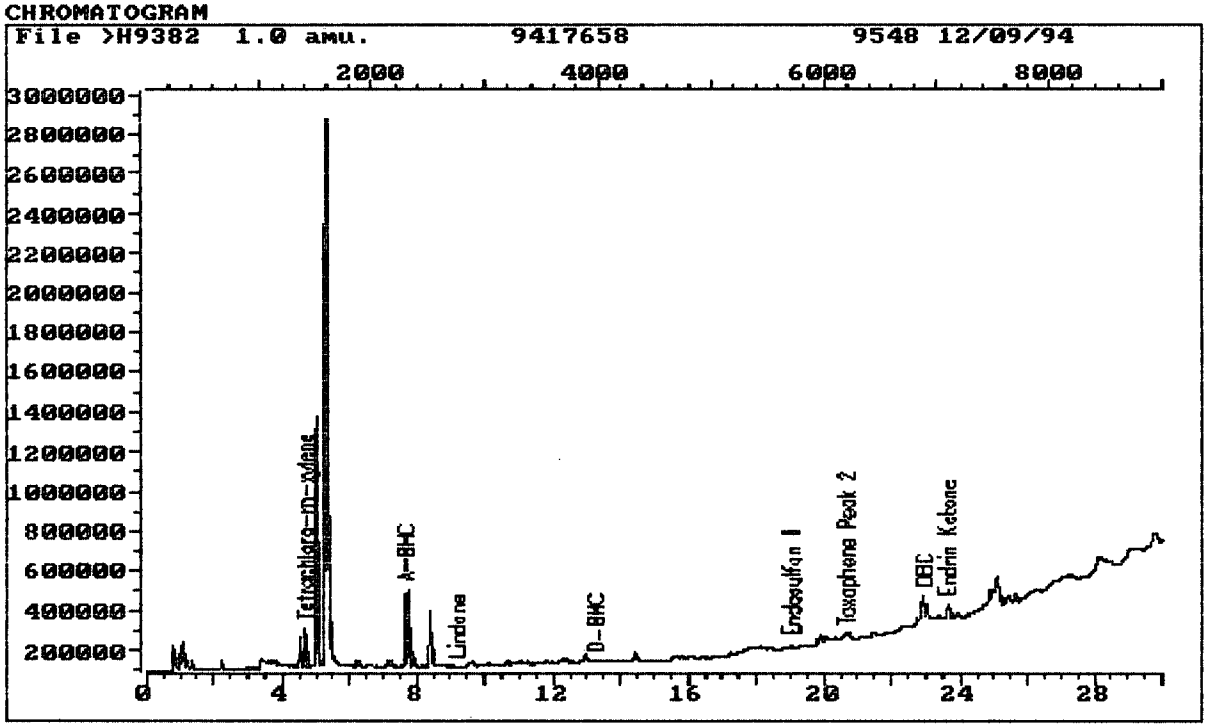


Data File: >G9382::G3 Quant Output File: ^G9382::QT
Name: 9417658 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DS-07

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941223 09:27
Injected at: 941223 07:24

CHROMATOGRAM

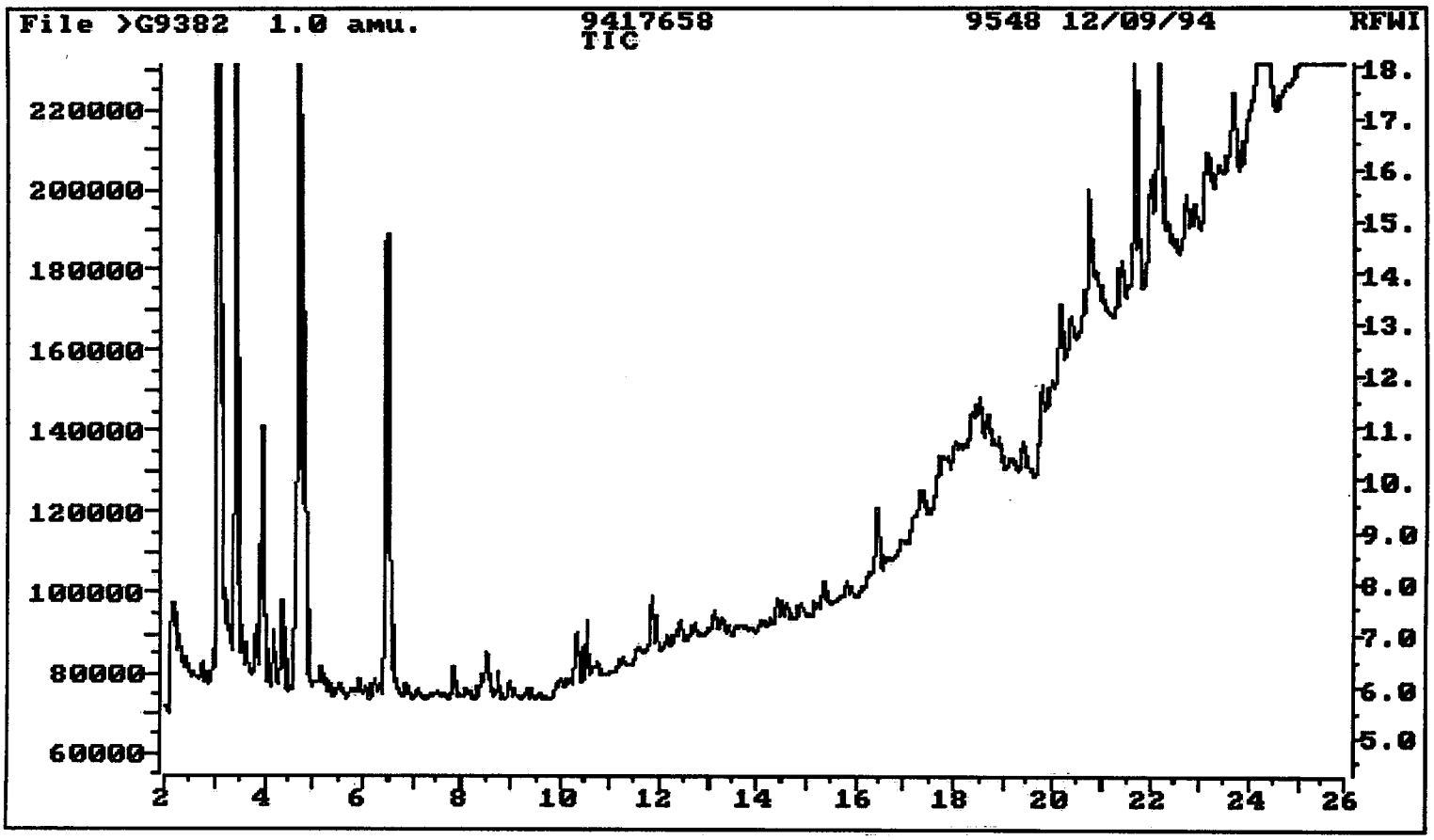


Data File: >H9382::G3 Quant Output File: ^H9382::QT
Name: 9417658 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DS-07

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941223 09:47
Injected at: 941223 08:02

484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485

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417659	DILUTION FACTOR	1
DATA FILE	>G9383	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-01	ANALYZED BY	DANIEL

COMPOUND	MG/KG	MDL
A-BHC	U	.050
B-BHC	U	.050
Lindane	U	.050
D-BHC	U	.050
Heptachlor	U	.050
Aldrin	U	.050
Heptachlor Epoxide	U	.050
Endosulfan I	U	.050
A-Chlordane	U	.050
G-Chlordane	U	.050
Dieldrin	U	.100
4,4'-DDE	U	.100
Endrin	U	.100
Endosulfan II	U	.100
4,4'-DDD	U	.100
Endrin Aldehyde	U	.100
Endosulfan Sulfate	U	.100
4,4'-DDT	U	.100
Endrin Ketone	U	.100
Methoxychlor	U	.500
Toxaphene	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

units ok

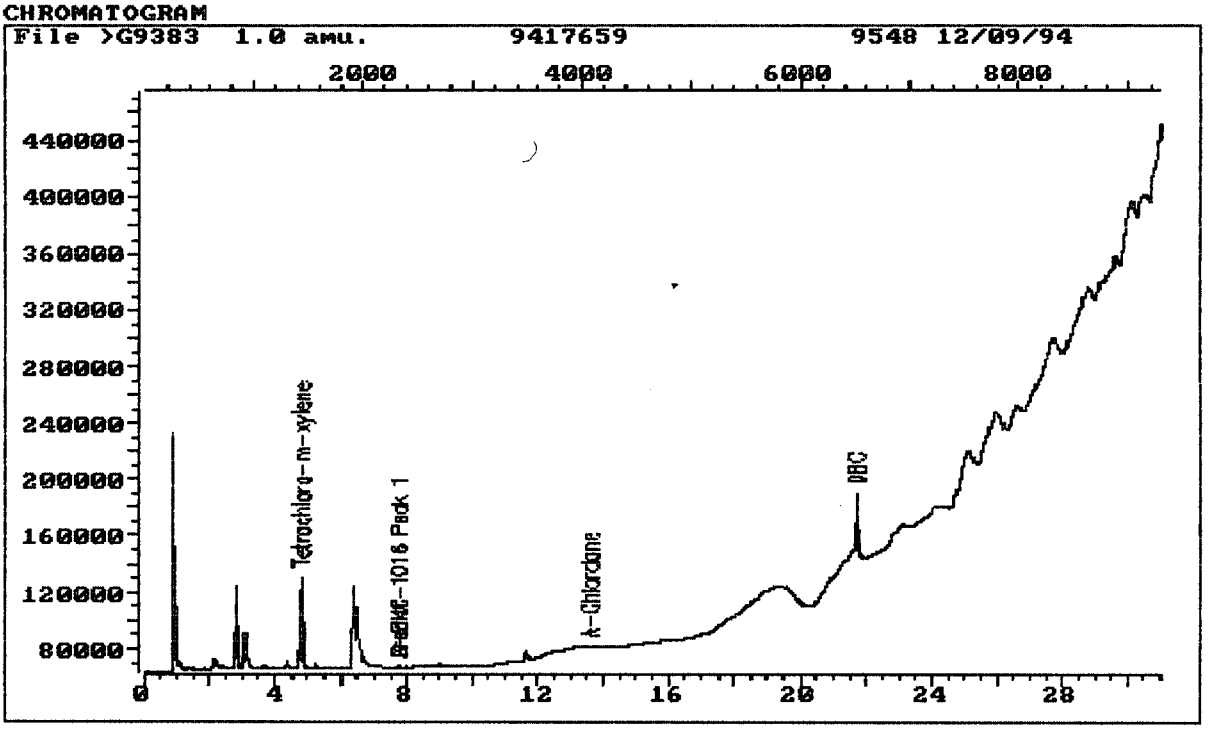
ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417659	DILUTION FACTOR	1
DATA FILE	>G9383	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-01	ANALYZED BY	DANIEL

CAS#	COMPOUND	MG/KG	MDL
12674112	Aroclor-1016	U	1.00
11104282	Aroclor-1221	U	2.00
11141165	Aroclor-1232	U	1.00
53469219	Aroclor-1242	U	1.00
12672296	Aroclor-1248	U	1.00
11097691	Aroclor-1254	U	1.00
11096825	Aroclor-1260	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



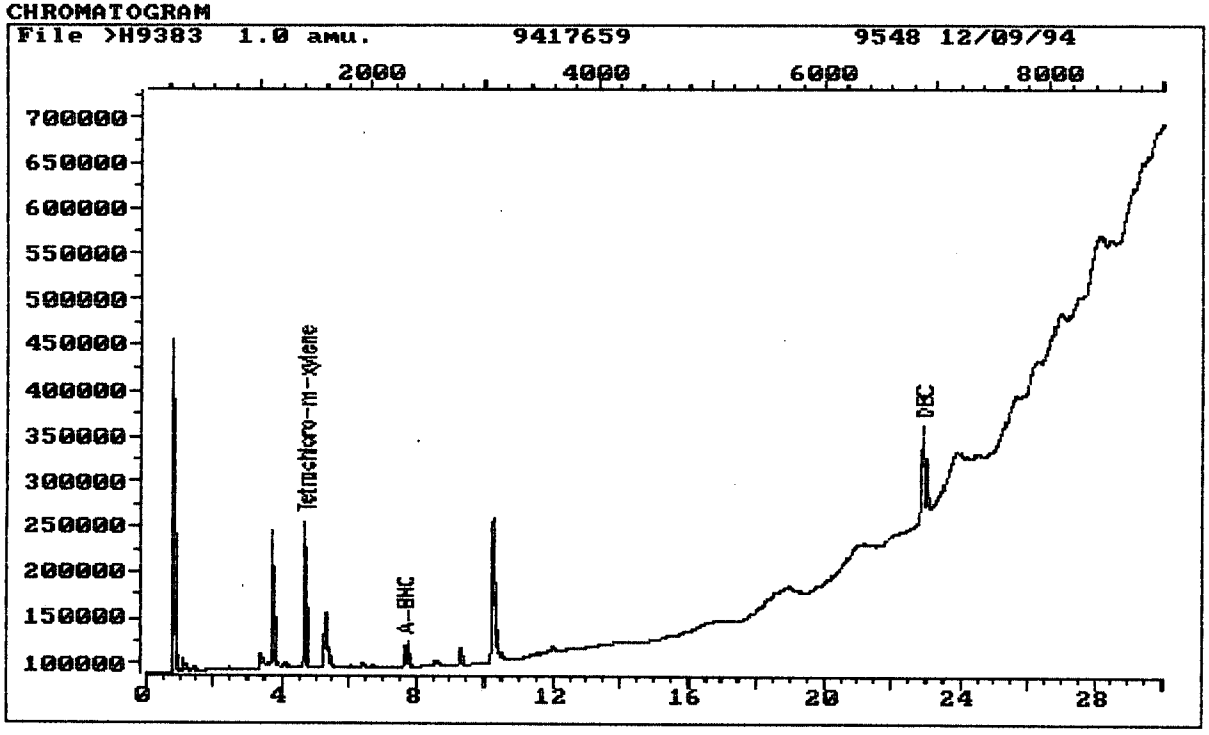
Data File: >G9383::G3 Quant Output File: ^G9383::QT
Name: 9417659 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DL-01

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941223 09:30
Injected at: 941223 08:02

486

CHROMATOGRAM

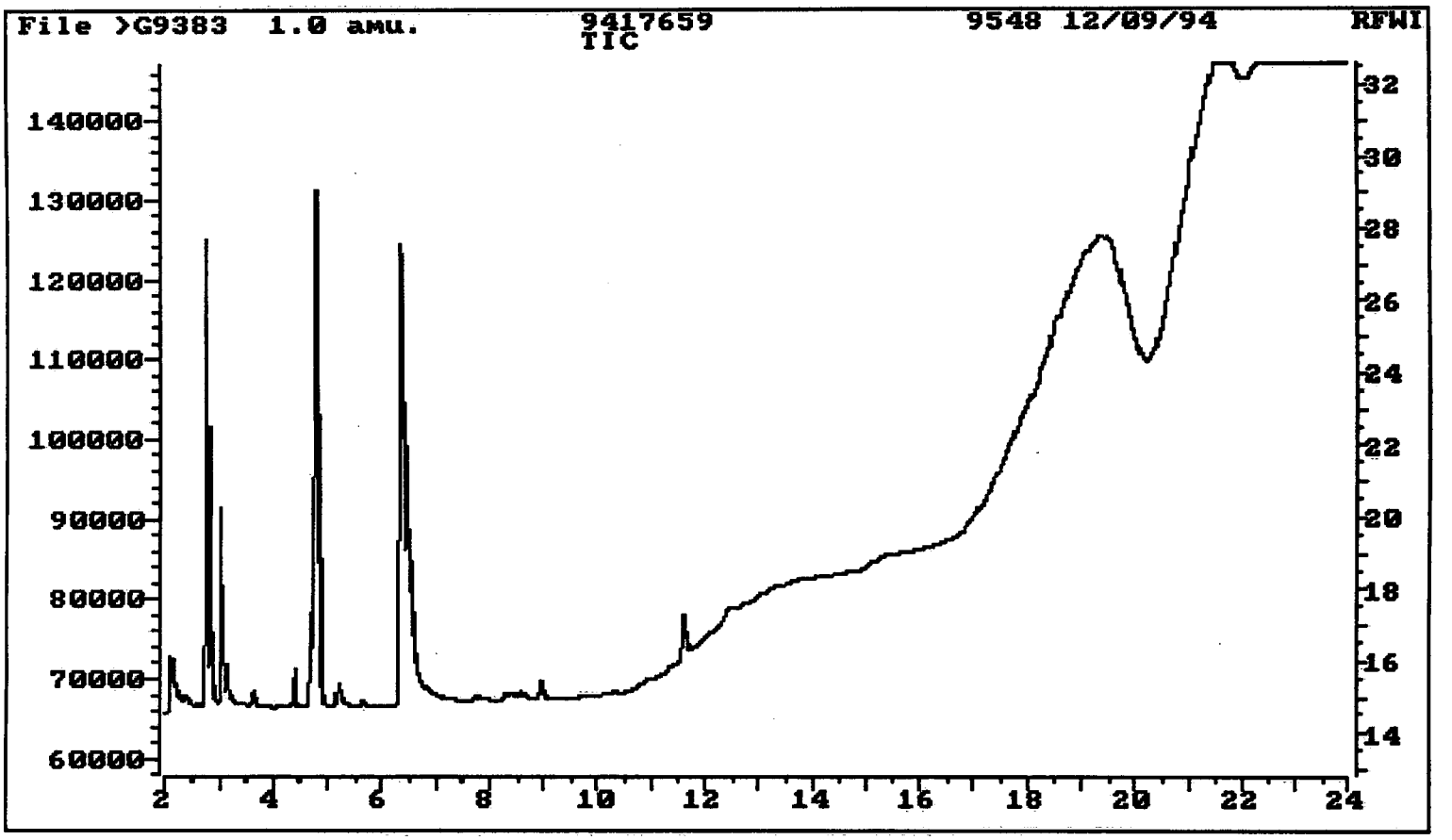


Data File: >H9383::G3 Quant Output File: ^H9383::QT
Name: 9417659 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DL-01

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941223 09:52
Injected at: 941223 08:40

487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9548 12/09/94
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120000
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90000
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70000
60000
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488

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417660	DILUTION FACTOR	1
DATA FILE	>G9384	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-02	ANALYZED BY	DANIEL

COMPOUND	MG/KG	MDL
A-BHC	U	.050
B-BHC	U	.050
Lindane	U	.050
D-BHC	U	.050
Heptachlor	U	.050
Aldrin	U	.050
Heptachlor Epoxide	U	.050
Endosulfan I	U	.050
A-Chlordane	U	.050
G-Chlordane	U	.050
Dieldrin	U	.100
4,4'-DDE	U	.100
Endrin	U	.100
Endosulfan II	U	.100
4,4'-DDD	U	.100
Endrin Aldehyde	U	.100
Endosulfan Sulfate	U	.100
4,4'-DDT	U	.100
Endrin Ketone	U	.100
Methoxychlor	U	.500
Toxaphene	U	1.00

ppm

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

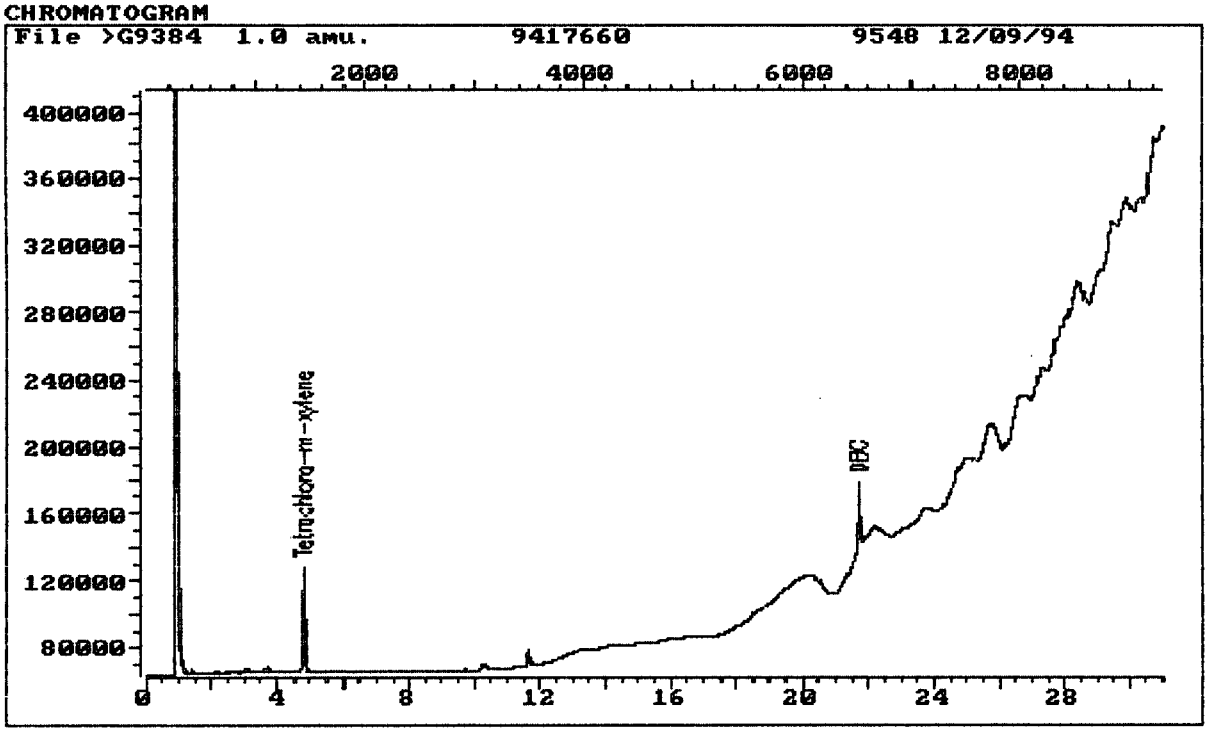
ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417660	DILUTION FACTOR	1
DATA FILE	>G9384	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-02	ANALYZED BY	DANIEL

CAS#	COMPOUND	MG/KG	MDL
12674112	Aroclor-1016	U	1.00
11104282	Aroclor-1221	U	2.00
11141165	Aroclor-1232	U	1.00
53469219	Aroclor-1242	U	1.00
12672296	Aroclor-1248	U	1.00
11097691	Aroclor-1254	U	1.00
11096825	Aroclor-1260	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM

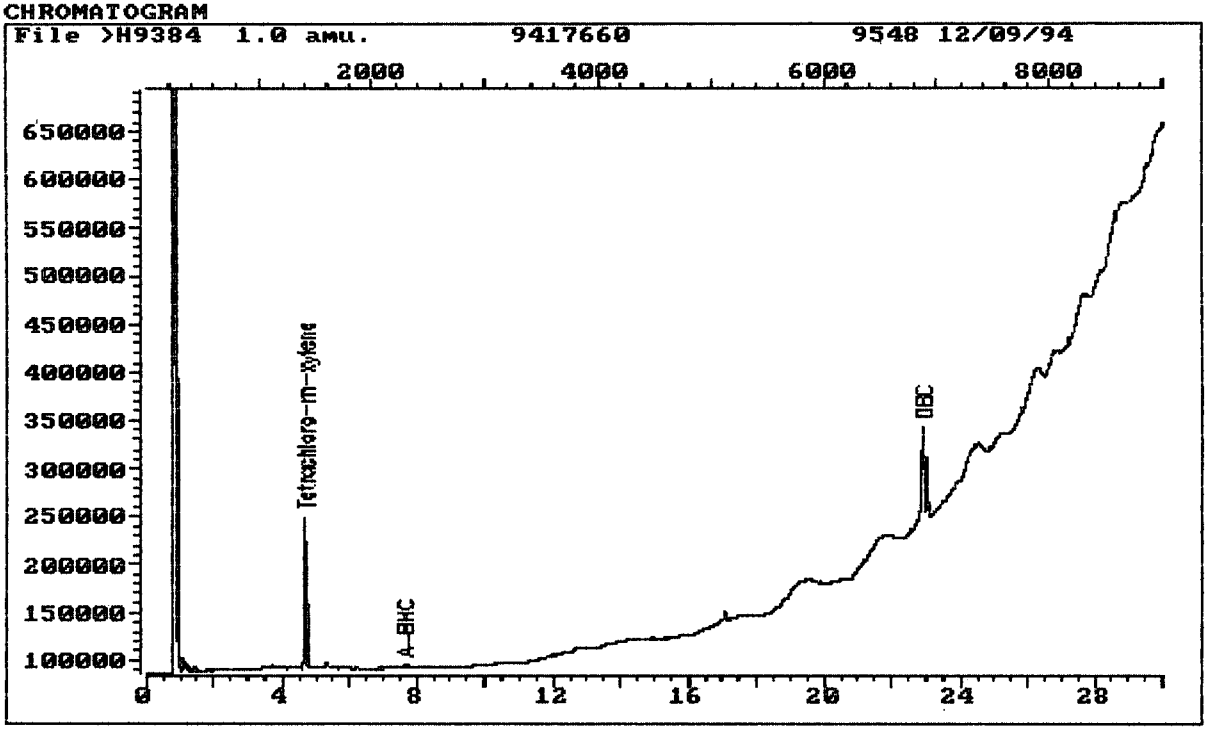


Data File: >G9384::G3 Quant Output File: ^G9384::QT
Name: 9417660 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DL-02

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941223 15:12
Injected at: 941223 08:40

CHROMATOGRAM

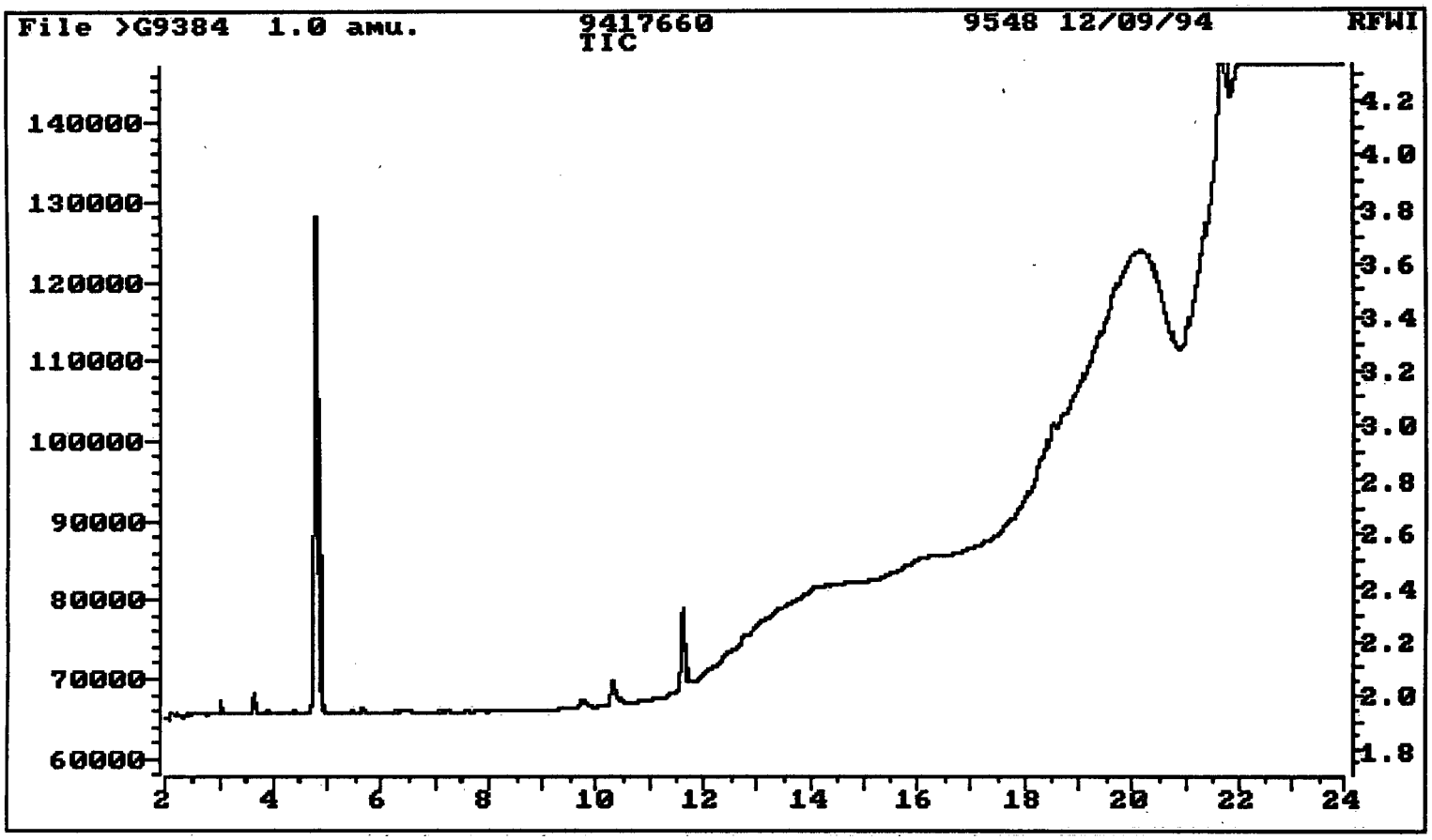


Data File: >H9384::G3 Quant Output File: ^H9384::QT
Name: 9417660 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DL-02

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941223 15:15
Injected at: 941223 09:18

490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9548 12/09/94
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100000
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1.8
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491

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417661	DILUTION FACTOR	1
DATA FILE	>G9385	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-03	ANALYZED BY	DANIEL

PPM

COMPOUND	MG/KG	MDL
A-BHC	U	.050
B-BHC	U	.050
Lindane	U	.050
D-BHC	U	.050
Heptachlor	U	.050
Aldrin	U	.050
Heptachlor Epoxide	U	.050
Endosulfan I	U	.050
A-Chlordane	U	.050
G-Chlordane	U	.050
Dieldrin	U	.100
4,4'-DDE	U	.100
Endrin	U	.100
Endosulfan II	U	.100
4,4'-DDD	U	.100
Endrin Aldehyde	U	.100
Endosulfan Sulfate	U	.100
4,4'-DDT	U	.100
Endrin Ketone	U	.100
Methoxychlor	U	.500
Toxaphene	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

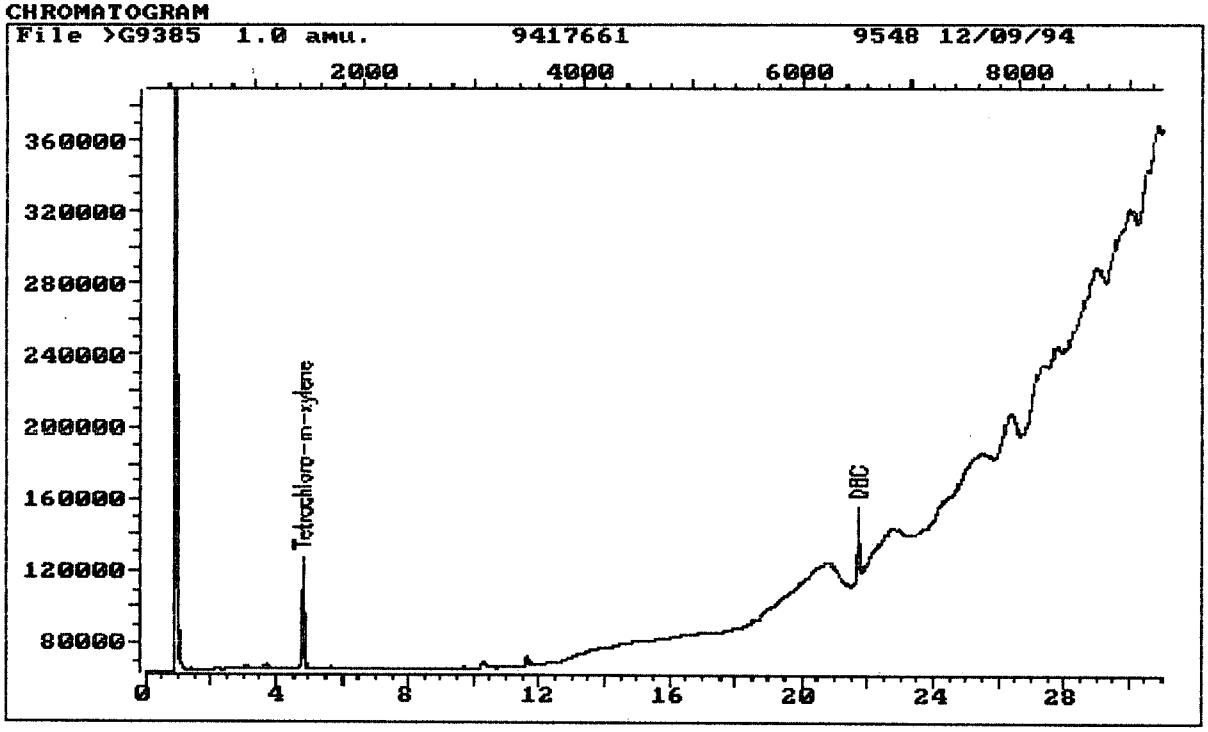
ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417661	DILUTION FACTOR	1
DATA FILE	>G9385	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-03	ANALYZED BY	DANIEL

CAS#	COMPOUND	MG/KG	MDL
12674112	Aroclor-1016	U	1.00
11104282	Aroclor-1221	U	2.00
11141165	Aroclor-1232	U	1.00
53469219	Aroclor-1242	U	1.00
12672296	Aroclor-1248	U	1.00
11097691	Aroclor-1254	U	1.00
11096825	Aroclor-1260	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



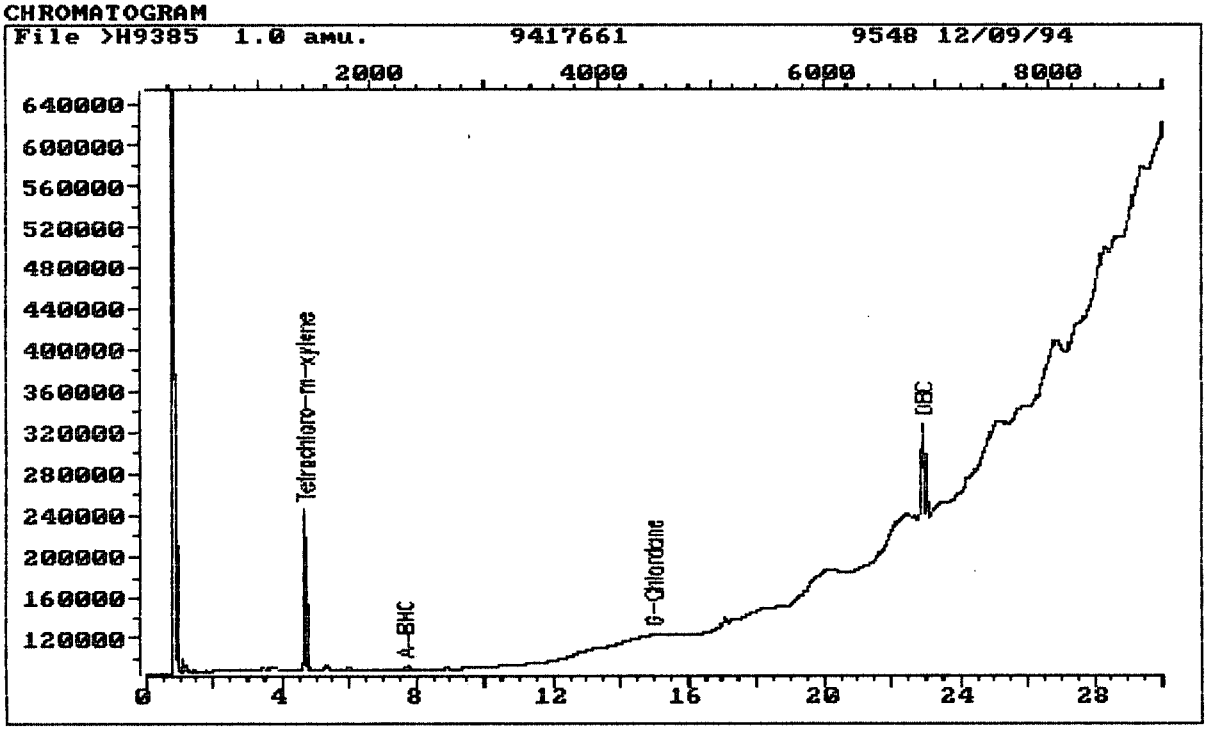
Data File: >G9385::G3 Quant Output File: ^G9385::QT
Name: 9417661 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DL-03

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941223 15:17
Injected at: 941223 09:18

492

CHROMATOGRAM

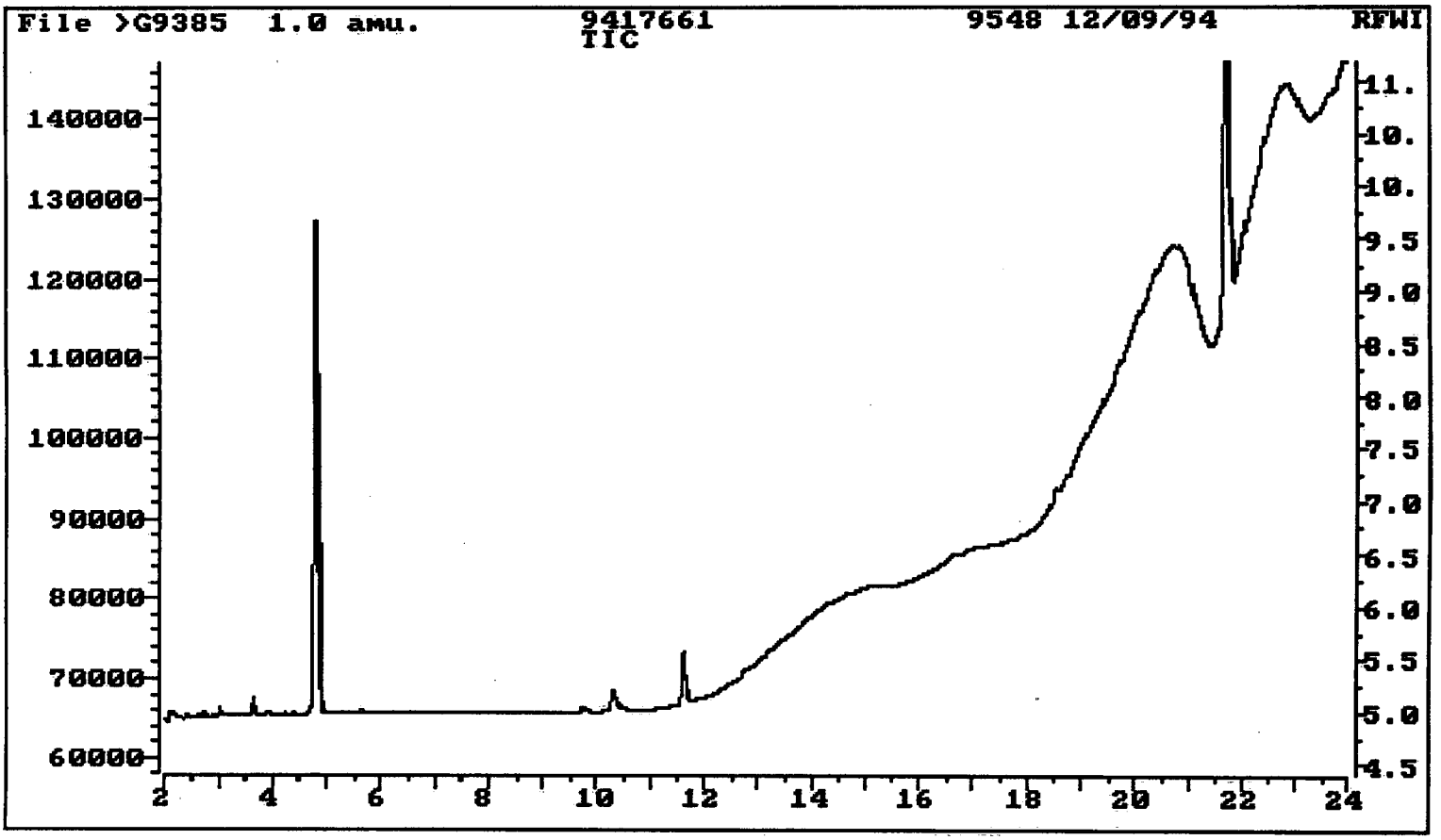


Data File: >H9385::G3 Quant Output File: ^H9385::QT
Name: 9417661 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DL-03

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941223 15:20
Injected at: 941223 09:55

493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494

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417662	DILUTION FACTOR	1
DATA FILE	>G9390	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-04	ANALYZED BY	DANIEL

COMPOUND	MG/KG	MDL
A-BHC	U	.050
B-BHC	U	.050
Lindane	U	.050
D-BHC	U	.050
Heptachlor	U	.050
Aldrin	U	.050
Heptachlor Epoxide	U	.050
Endosulfan I	U	.050
A-Chlordane	U	.050
G-Chlordane	U	.050
Dieldrin	U	.100
4,4'-DDE	U	.100
Endrin	U	.100
Endosulfan II	U	.100
4,4'-DDD	U	.100
Endrin Aldehyde	U	.100
Endosulfan Sulfate	U	.100
4,4'-DDT	U	.100
Endrin Ketone	U	.100
Methoxychlor	U	.500
Toxaphene	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

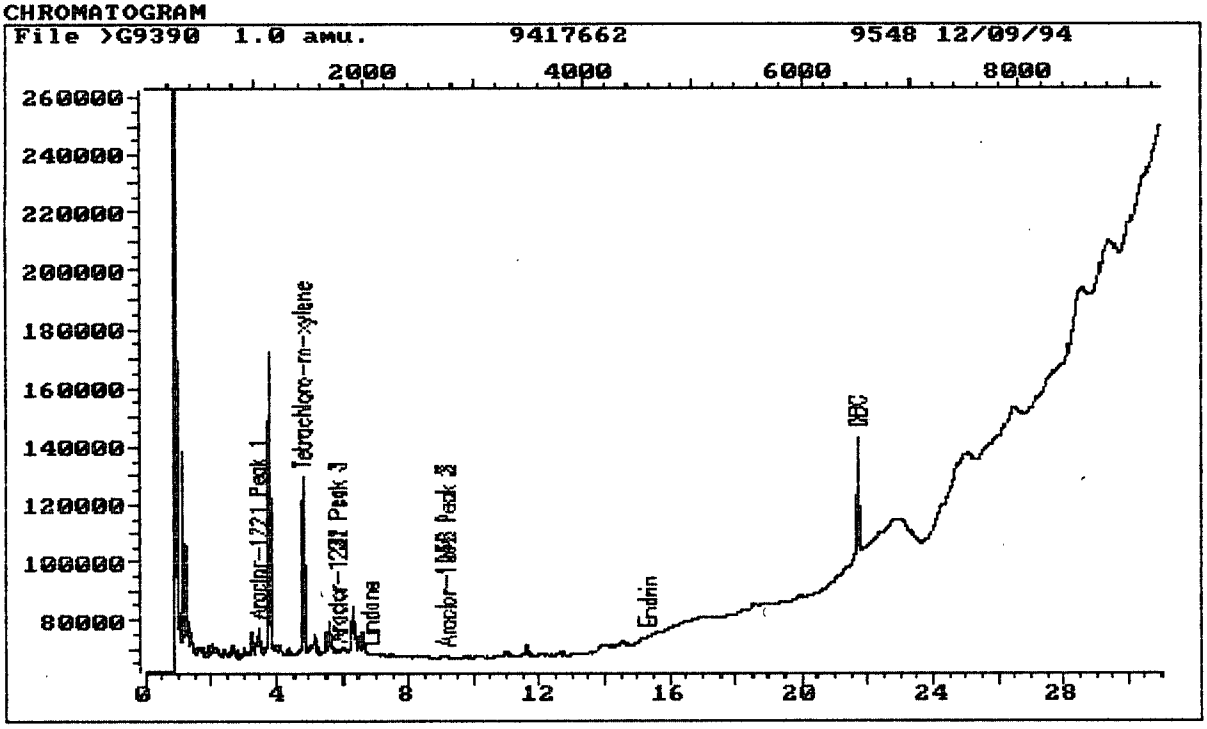
ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent 7090008
SAMPLE NUMBER	9417662	DILUTION FACTOR	1
DATA FILE	>G9390	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-04	ANALYZED BY	DANIEL

CAS#	COMPOUND	MG/KG	MDL
12674112	Aroclor-1016	U	1.00
11104282	Aroclor-1221	U	2.00
11141165	Aroclor-1232	U	1.00
53469219	Aroclor-1242	U	1.00
12672296	Aroclor-1248	U	1.00
11097691	Aroclor-1254	U	1.00
11096825	Aroclor-1260	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



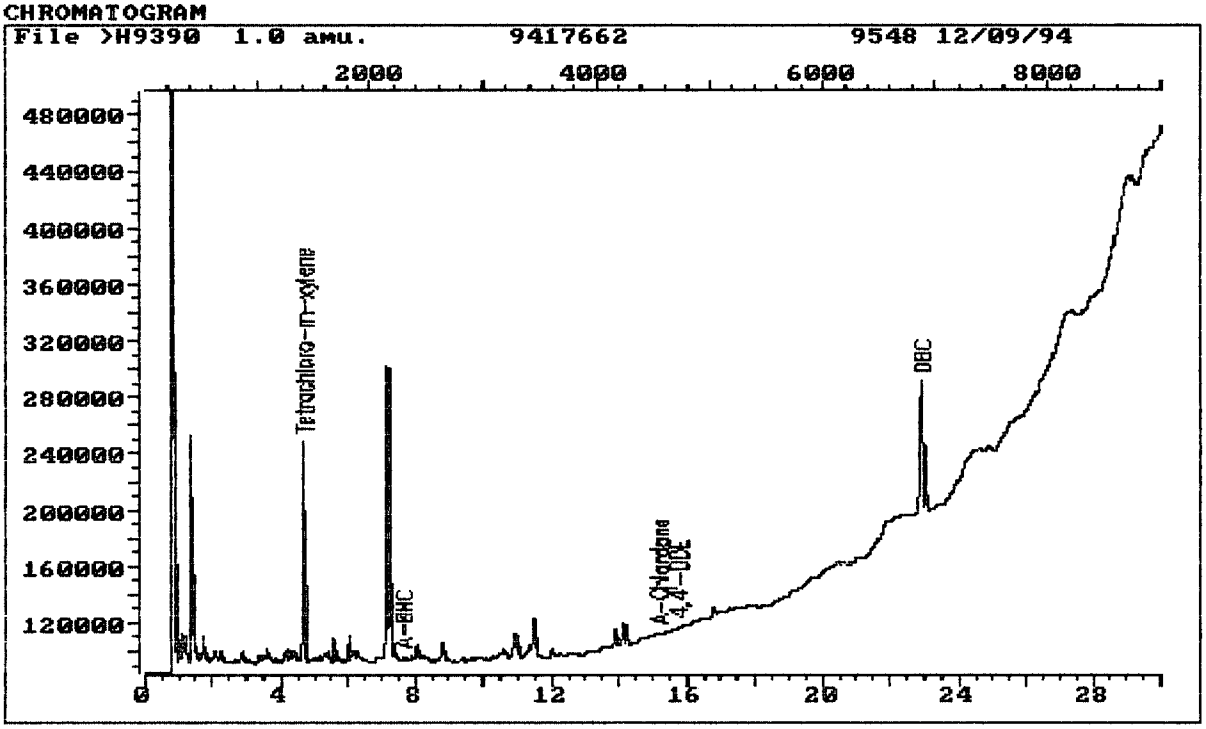
Data File: >G9390::G3 Quant Output File: ^G9390::QT
Name: 9417662 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DL-04

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941227 08:36
Injected at: 941223 12:28

495

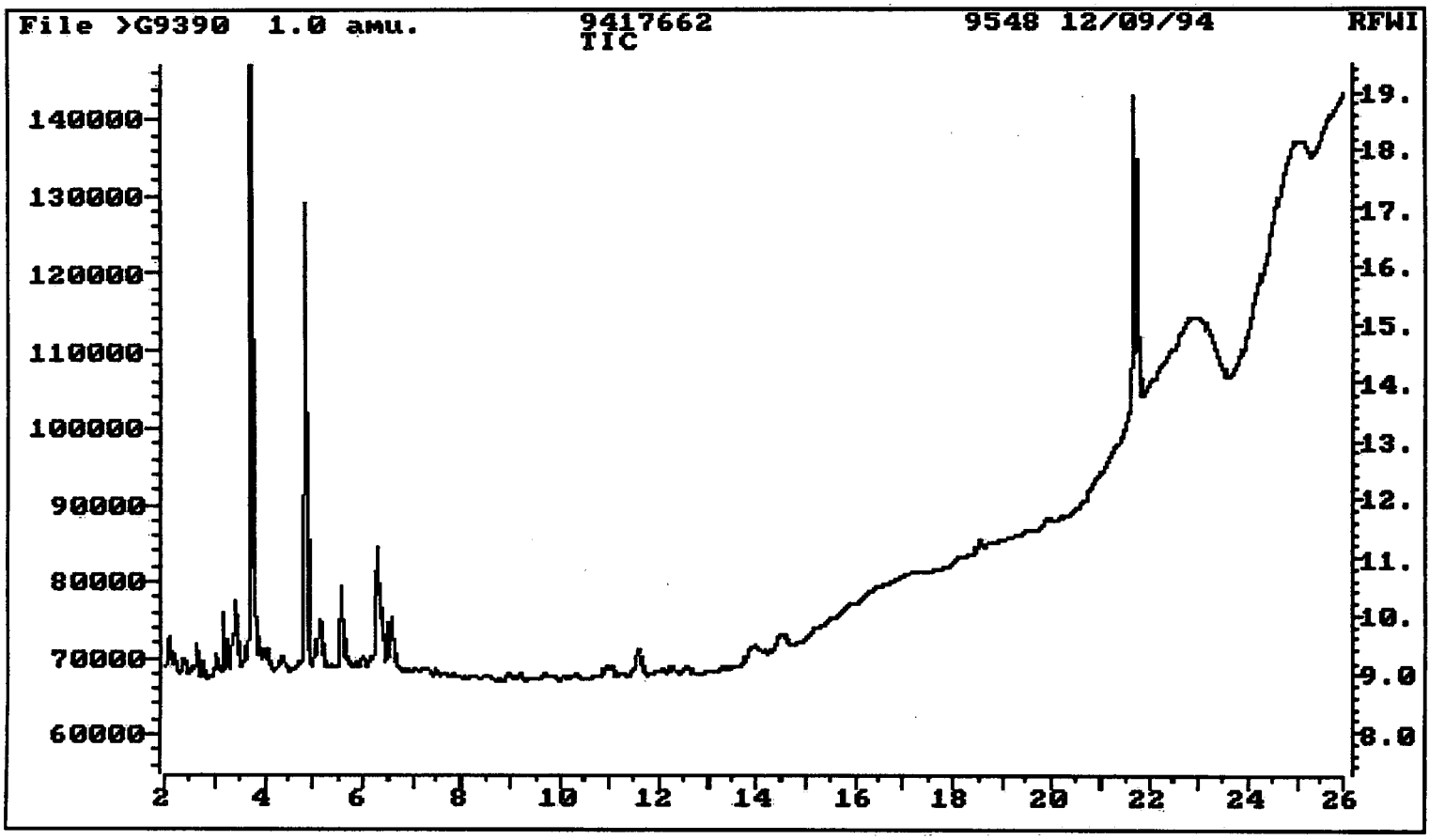
CHROMATOGRAM



Data File: >H9390::G3 Quant Output File: ^H9390::QT
Name: 9417662 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DL-04

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941227 08:54
Injected at: 941223 13:05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9548 12/09/94
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110000
100000
90000
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497

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417663	DILUTION FACTOR	1
DATA FILE	>G9391	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-05	ANALYZED BY	DANIEL

COMPOUND	MG/KG	MDL
A-BHC	U	.050
B-BHC	U	.050
Lindane	.027 J	.050
D-BHC	U	.050
Heptachlor	U	.050
Aldrin	U	.050
Heptachlor Epoxide	U	.050
Endosulfan I	U	.050
A-Chlordane	U	.050
G-Chlordane	U	.050
Dieldrin	U	.100
4,4'-DDE	U	.100
Endrin	U	.100
Endosulfan II	U	.100
4,4'-DDD	U	.100
Endrin Aldehyde	U	.100
Endosulfan Sulfate	U	.100
4,4'-DDT	U	.100
Endrin Ketone	U	.100
Methoxychlor	U	.500
Toxaphene	U	1.00

PPM

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

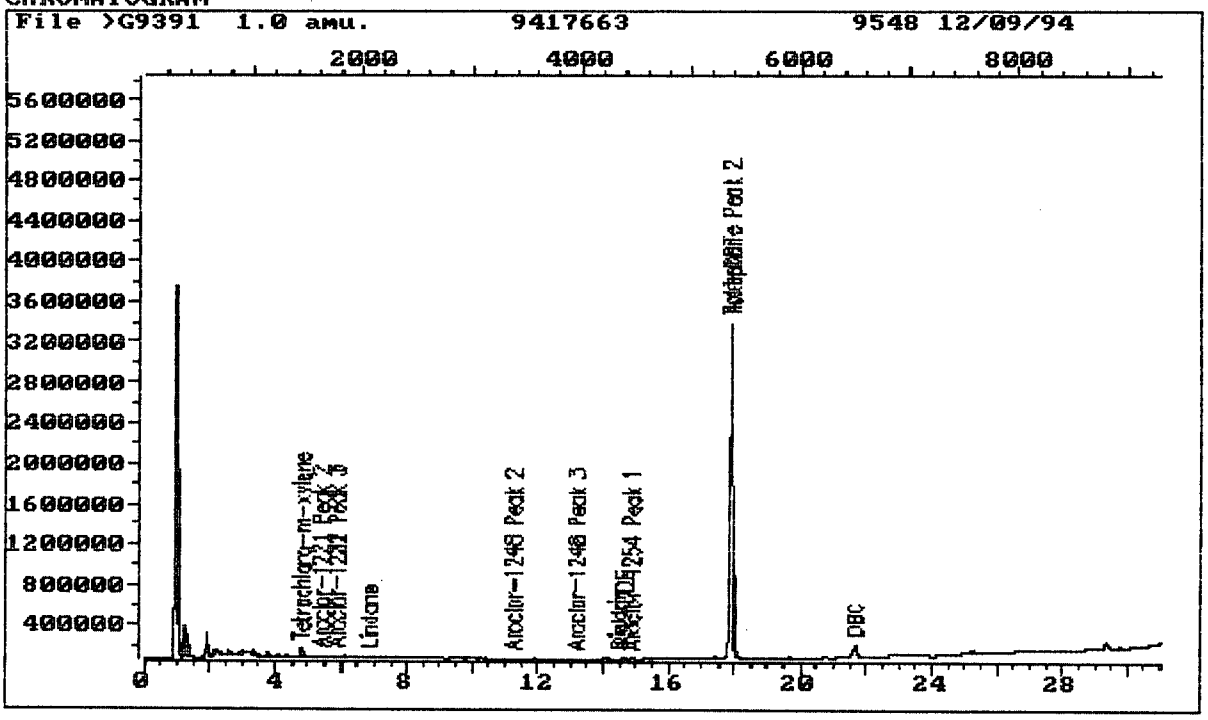
CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417663	DILUTION FACTOR	1
DATA FILE	>G9391	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-05	ANALYZED BY	DANIEL

CAS#	COMPOUND	~~MG/KG~~ UG/L	MDL
12674112	Aroclor-1016	U	1.00
11104282	Aroclor-1221	U	2.00
11141165	Aroclor-1232	U	1.00
53469219	Aroclor-1242	U	1.00
12672296	Aroclor-1248	U	1.00
11097691	Aroclor-1254	U	1.00
11096825	Aroclor-1260	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

111

CHROMATOGRAM



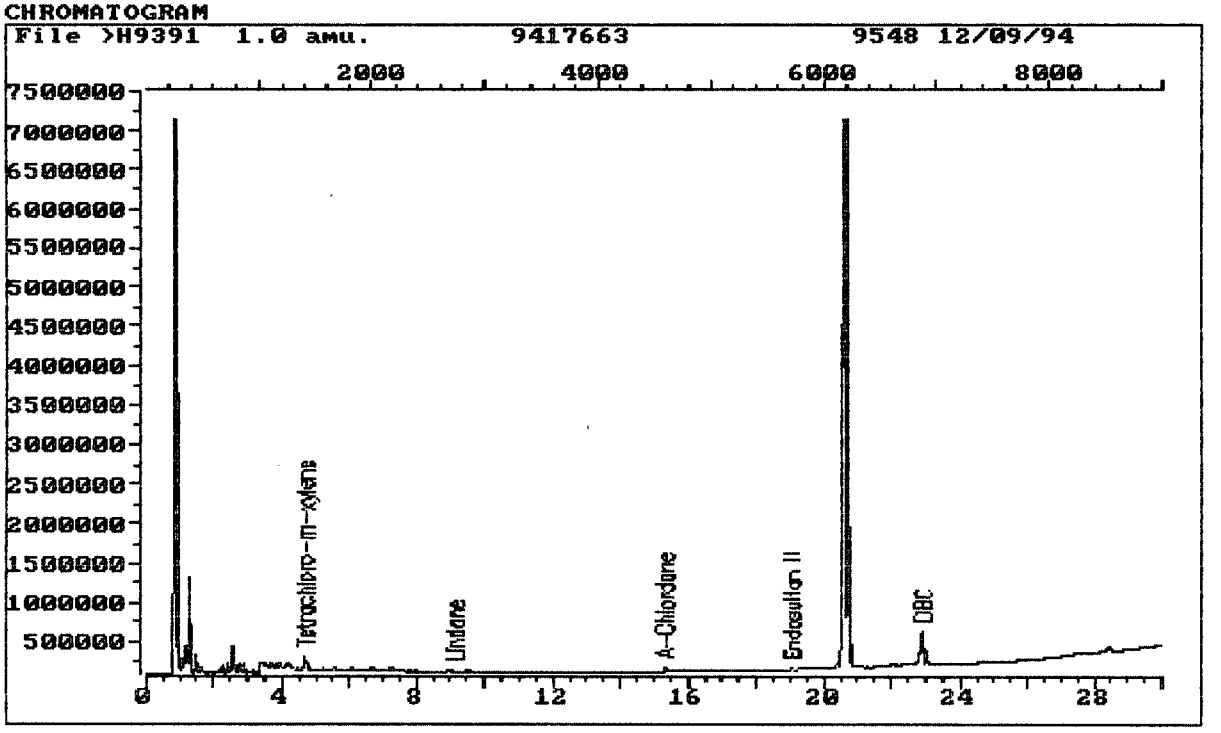
Data File: >G9391::G3 Quant Output File: ^G9391::QT
Name: 9417663 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DL-05

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941227 08:38
Injected at: 941223 13:05

498

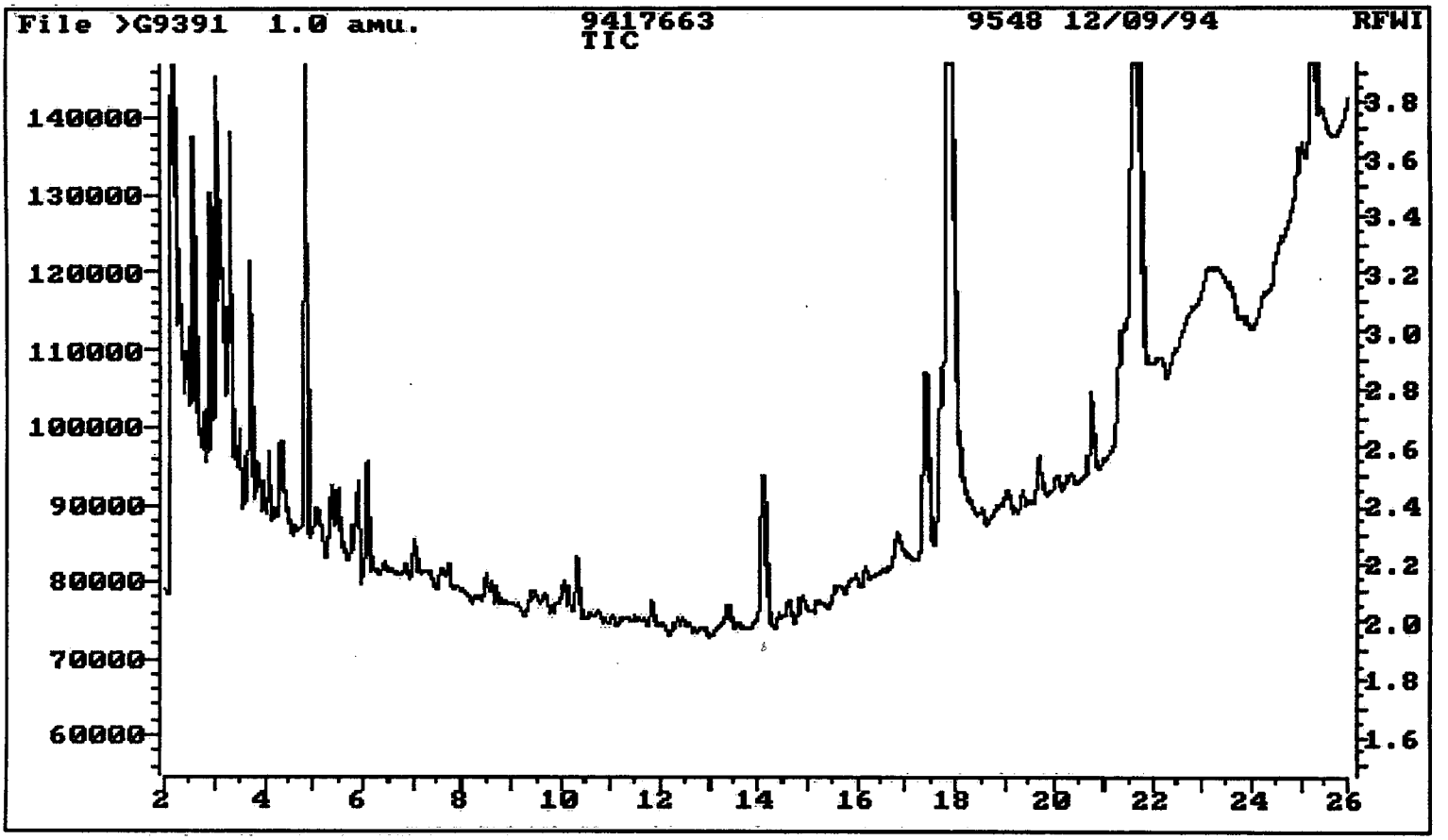
CHROMATOGRAM



Data File: >H9391::G3 Quant Output File: ^H9391::QT
Name: 9417663 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DL-05

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941227 08:55
Injected at: 941223 13:43


File >G9391 1.0 amu.
9417663
TIC
9548 12/09/94
RFWI
140000
130000
120000
110000
100000
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80000
70000
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500

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417664	DILUTION FACTOR	1
DATA FILE	>G9392	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-06	ANALYZED BY	DANIEL

ppm

COMPOUND	MG/KG	MDL
A-BHC	U	.050
B-BHC	U	.050
Lindane	U	.050
D-BHC	U	.050
Heptachlor	U	.050
Aldrin	U	.050
Heptachlor Epoxide	U	.050
Endosulfan I	U	.050
A-Chlordane	U	.050
G-Chlordane	U	.050
Dieldrin	U	.100
4,4'-DDE	U	.100
Endrin	U	.100
Endosulfan II	U	.100
4,4'-DDD	U	.100
Endrin Aldehyde	U	.100
Endosulfan Sulfate	U	.100
4,4'-DDT	U	.100
Endrin Ketone	U	.100
Methoxychlor	U	.500
Toxaphene	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

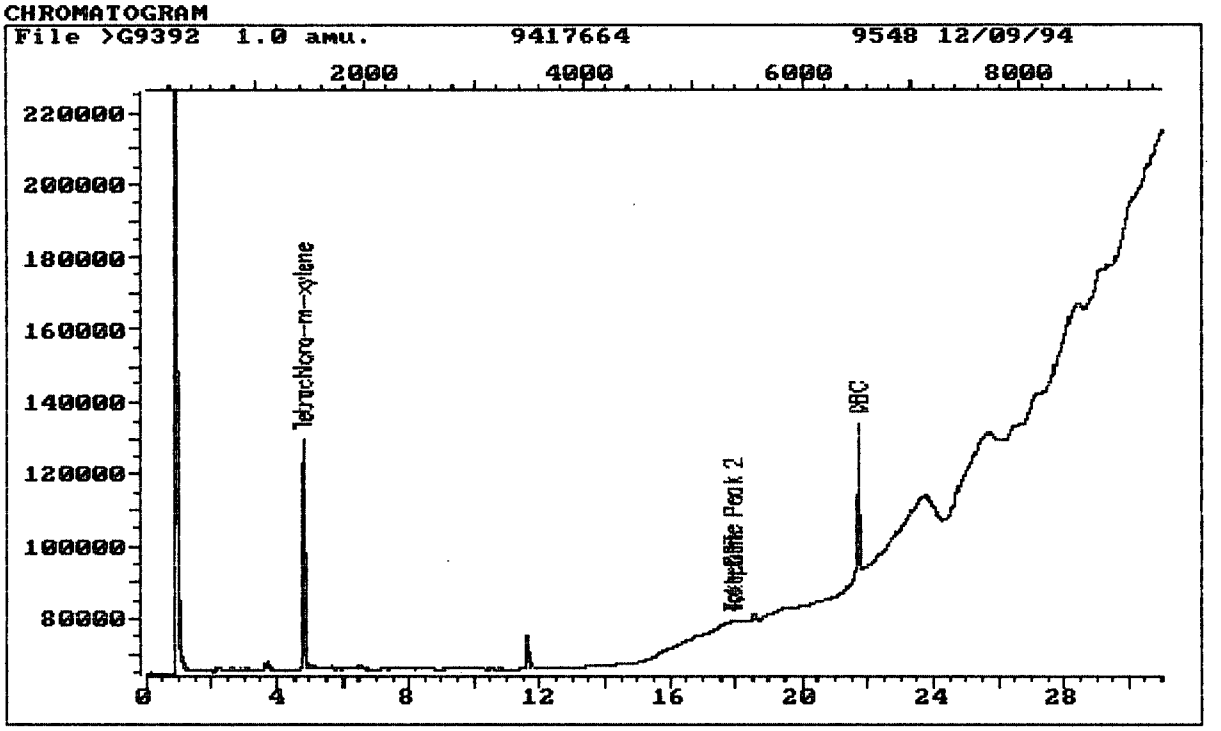
ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417664	DILUTION FACTOR	1
DATA FILE	>G9392	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-06	ANALYZED BY	DANIEL

CAS#	COMPOUND	MG/KG	MDL
12674112	Aroclor-1016	U	1.00
11104282	Aroclor-1221	U	2.00
11141165	Aroclor-1232	U	1.00
53469219	Aroclor-1242	U	1.00
12672296	Aroclor-1248	U	1.00
11097691	Aroclor-1254	U	1.00
11096825	Aroclor-1260	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM

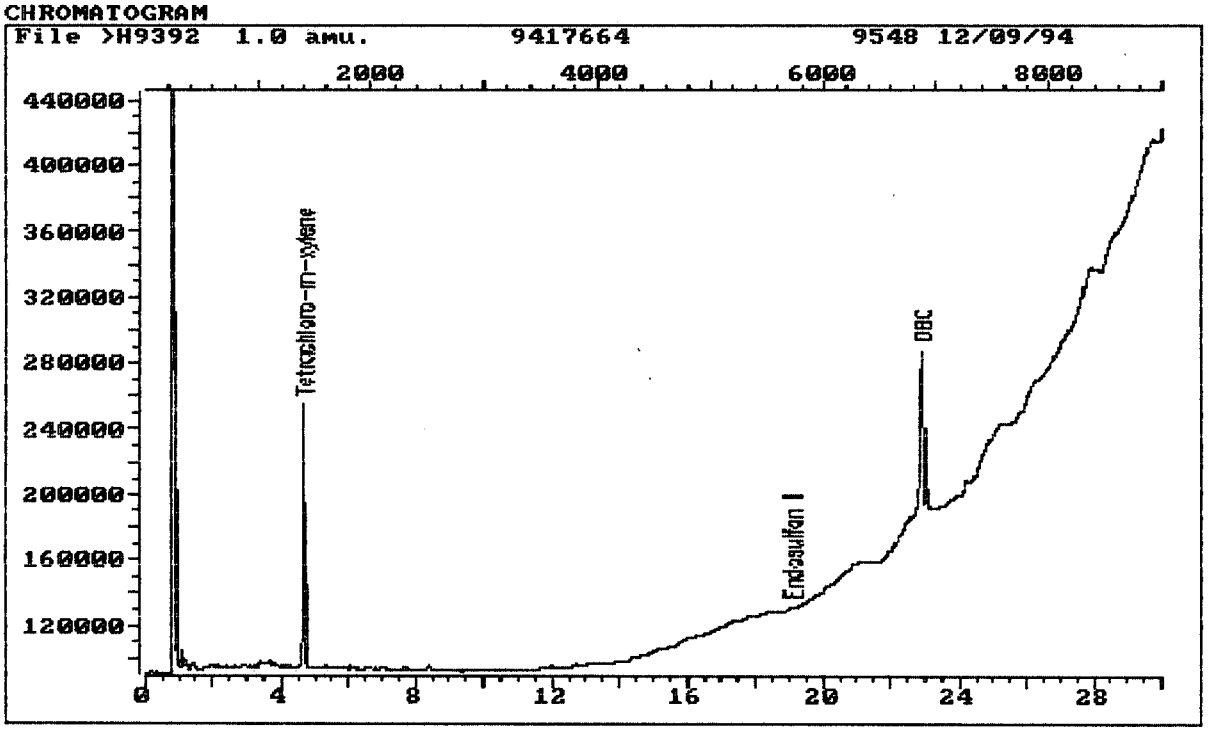


Data File: >G9392::G3 Quant Output File: ^G9392::QT
Name: 9417664 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DL-06

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941227 08:40
Injected at: 941223 13:43

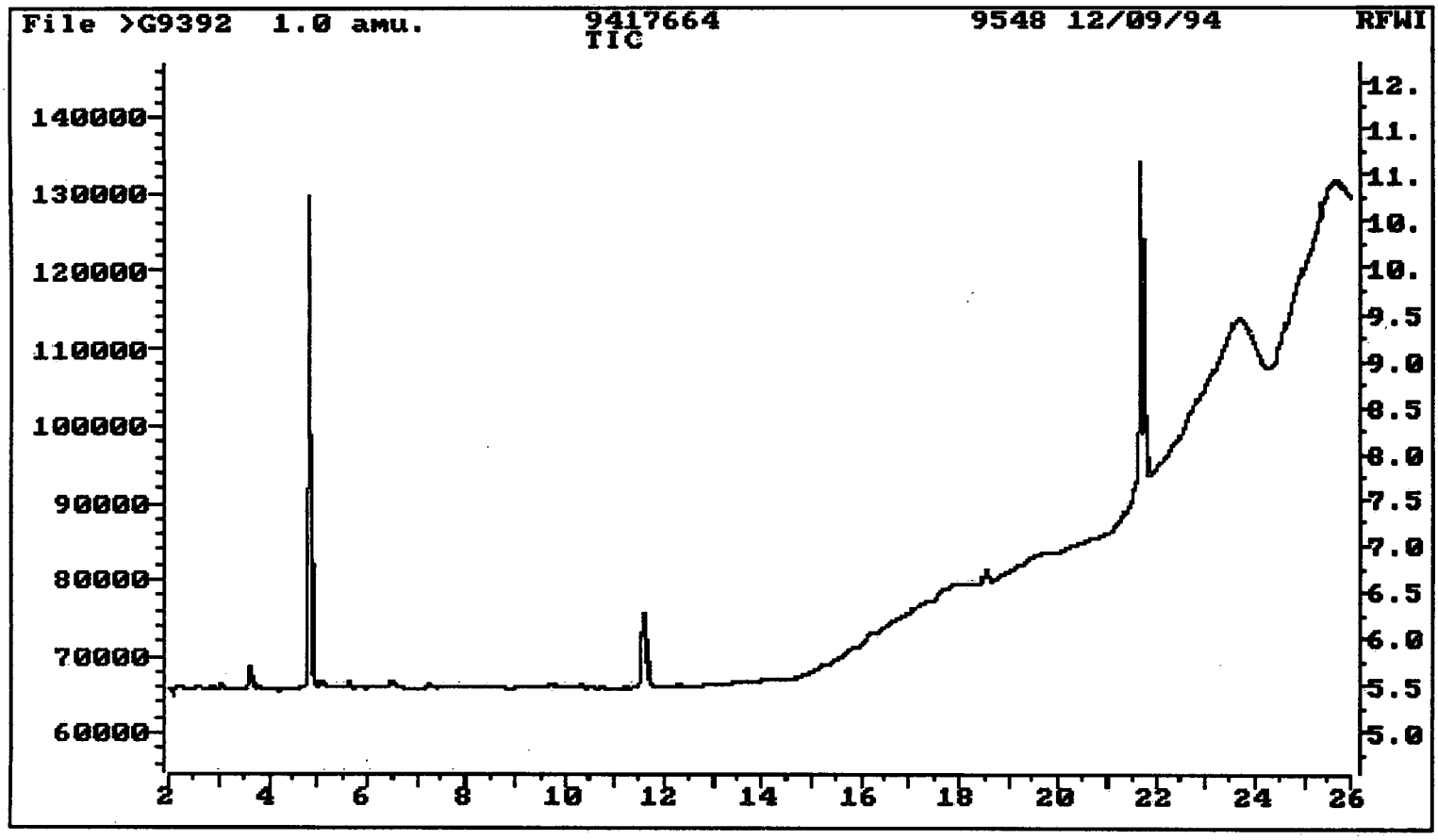
CHROMATOGRAM



Data File: >H9392::G3 Quant Output File: ^H9392::QT
Name: 9417664 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DL-06

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941227 08:56
Injected at: 941223 14:20


File >G9392 1.0 amu.
9417664
TIC
9548 12/09/94
RFWI
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110000
100000
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503

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417665	DILUTION FACTOR	1
DATA FILE	>G9393	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-08	ANALYZED BY	DANIEL

COMPOUND	MG/KG	MDL
A-BHC	U	.050
B-BHC	U	.050
Lindane	U	.050
D-BHC	U	.050
Heptachlor	U	.050
Aldrin	U	.050
Heptachlor Epoxide	U	.050
Endosulfan I	U	.050
A-Chlordane	U	.050
G-Chlordane	U	.050
Dieldrin	U	.100
4,4'-DDE	U	.100
Endrin	U	.100
Endosulfan II	U	.100
4,4'-DDD	U	.100
Endrin Aldehyde	U	.100
Endosulfan Sulfate	U	.100
4,4'-DDT	U	.100
Endrin Ketone	U	.100
Methoxychlor	U	.500
Toxaphene	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

APM

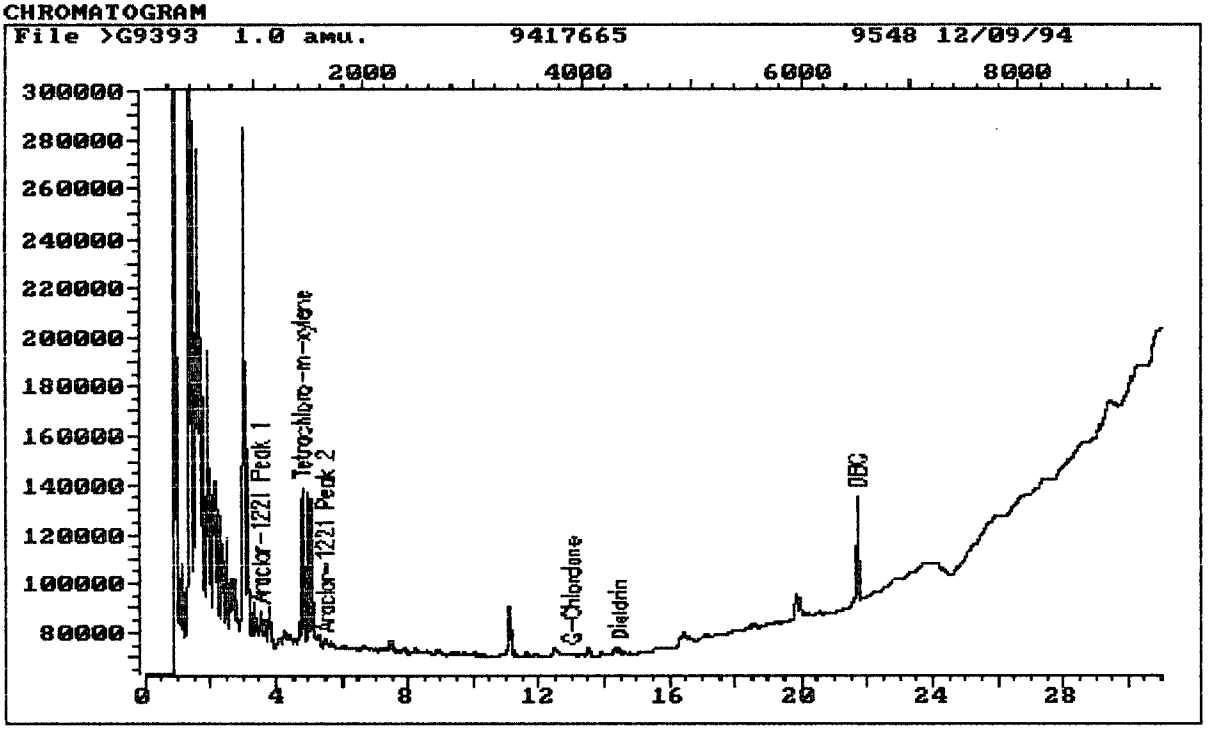
ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417665	DILUTION FACTOR	1
DATA FILE	>G9393	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-08	ANALYZED BY	DANIEL

CAS#	COMPOUND	MG/KG	MDL
12674112	Aroclor-1016	U	1.00
11104282	Aroclor-1221	U	2.00
11141165	Aroclor-1232	U	1.00
53469219	Aroclor-1242	U	1.00
12672296	Aroclor-1248	U	1.00
11097691	Aroclor-1254	U	1.00
11096825	Aroclor-1260	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



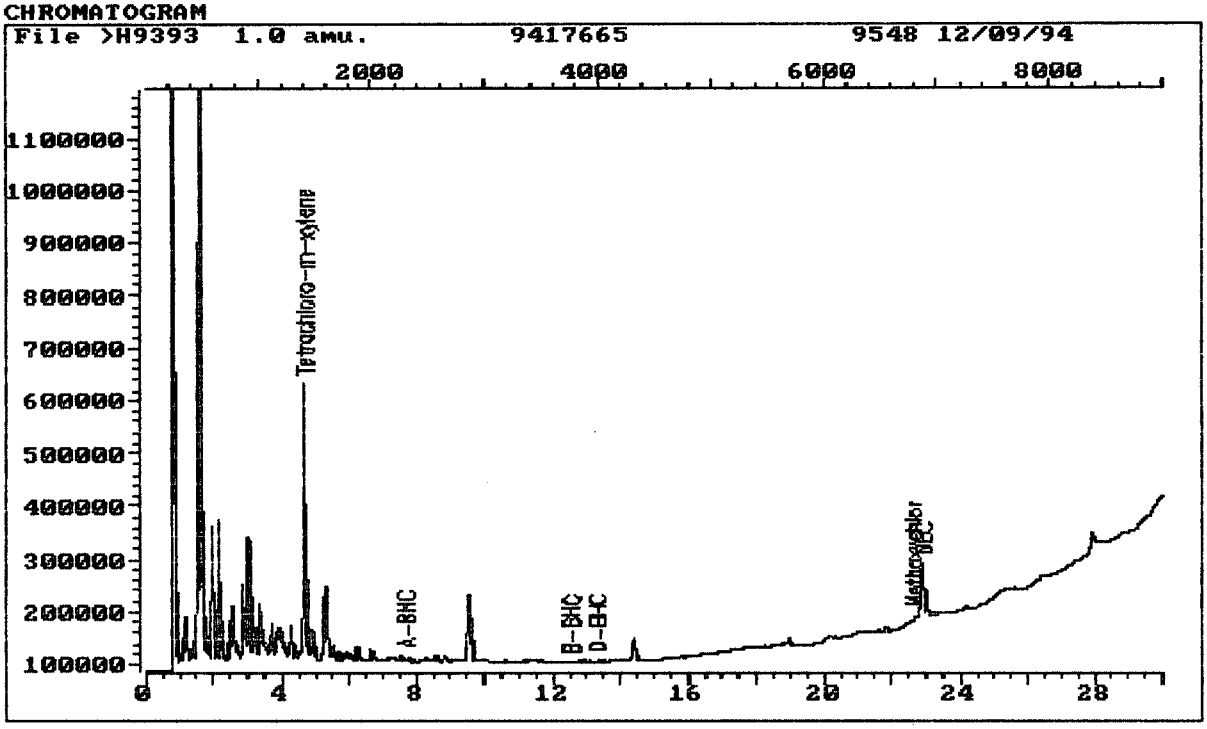
Data File: >G9393::G3 Quant Output File: ^G9393::QT
Name: 9417665 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DL-08

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941227 08:43
Injected at: 941223 14:20

504

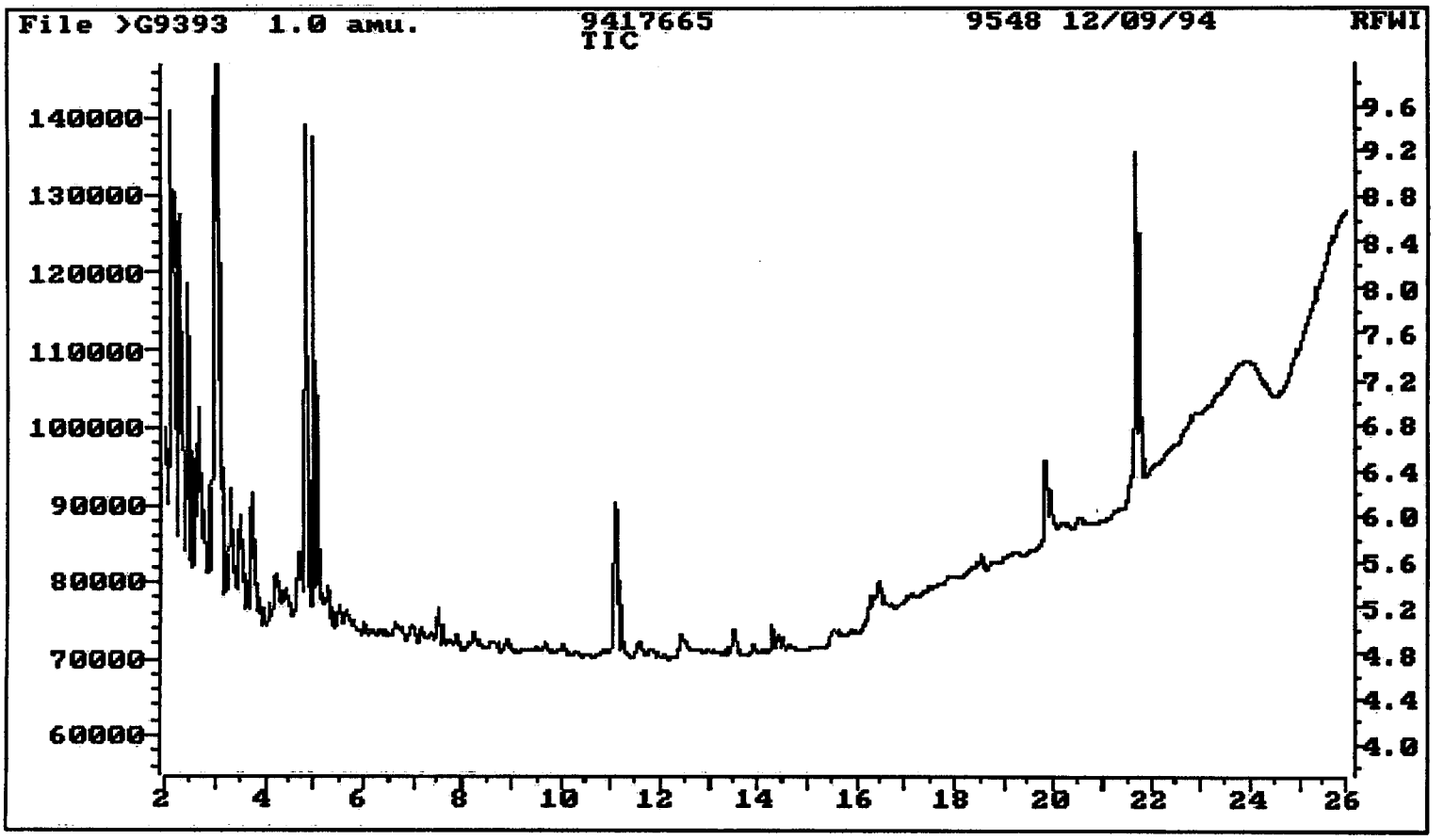
CHROMATOGRAM



Data File: >H9393::G3 Quant Output File: ^H9393::QT
Name: 9417665 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DL-08

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941227 08:57
Injected at: 941223 14:58


File >G9393 1.0 amu.
9417665
TIC
9548 12/09/94
RFWI
140000
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120000
110000
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80000
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506

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417666	DILUTION FACTOR	1
DATA FILE	>G9394	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-07	ANALYZED BY	DANIEL

COMPOUND	MG/KG	MDL
A-BHC	U	.050
B-BHC	U	.050
Lindane	U	.050
D-BHC	U	.050
Heptachlor	U	.050
Aldrin	U	.050
Heptachlor Epoxide	U	.050
Endosulfan I	U	.050
A-Chlordane	U	.050
G-Chlordane	U	.050
Dieldrin	U	.100
4,4'-DDE	U	.100
Endrin	U	.100
Endosulfan II	U	.100
4,4'-DDD	U	.100
Endrin Aldehyde	U	.100
Endosulfan Sulfate	U	.100
4,4'-DDT	U	.100
Endrin Ketone	U	.100
Methoxychlor	U	.500
Toxaphene	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

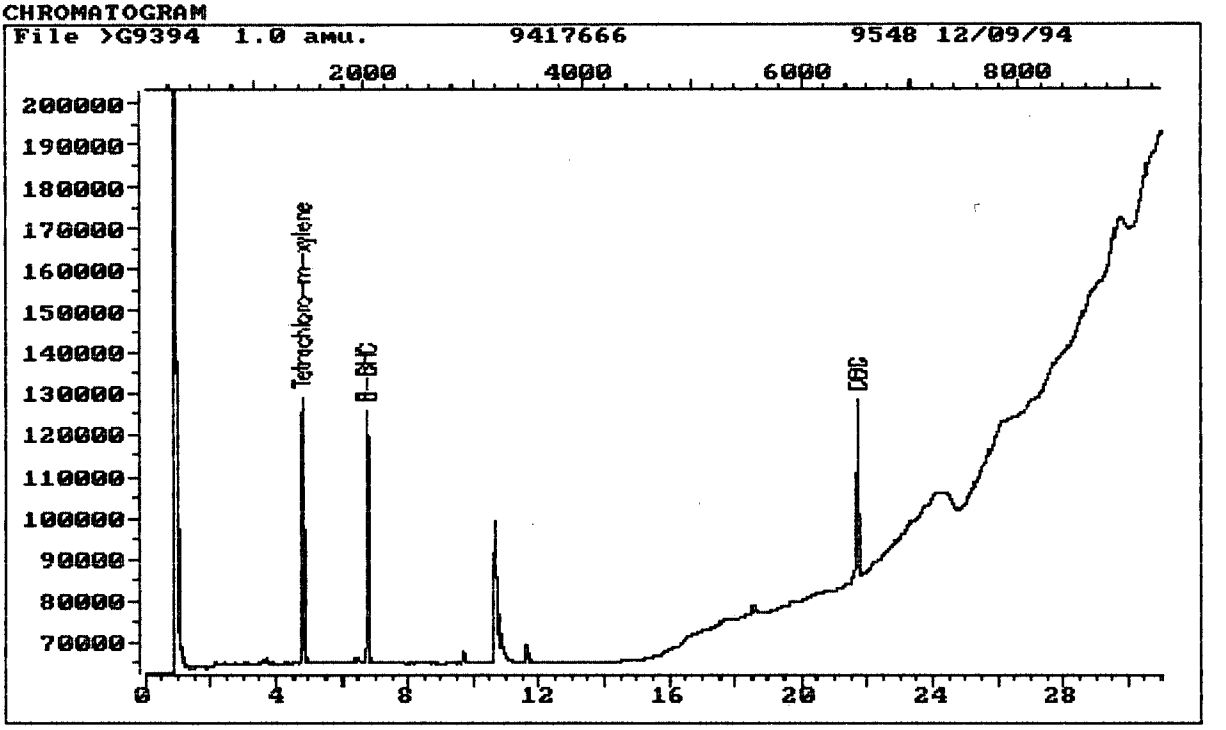
ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Solvent
SAMPLE NUMBER	9417666	DILUTION FACTOR	1
DATA FILE	>G9394	DATE EXTRACTED	12/09/94
CLIENT NAME	RFWI	DATE ANALYZED	12/23/94
FIELD ID	BB-DL-07	ANALYZED BY	DANIEL

CAS#	COMPOUND	MG/KG	MDL
12674112	Aroclor-1016	U	1.00
11104282	Aroclor-1221	U	2.00
11141165	Aroclor-1232	U	1.00
53469219	Aroclor-1242	U	1.00
12672296	Aroclor-1248	U	1.00
11097691	Aroclor-1254	U	1.00
11096825	Aroclor-1260	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

CHROMATOGRAM



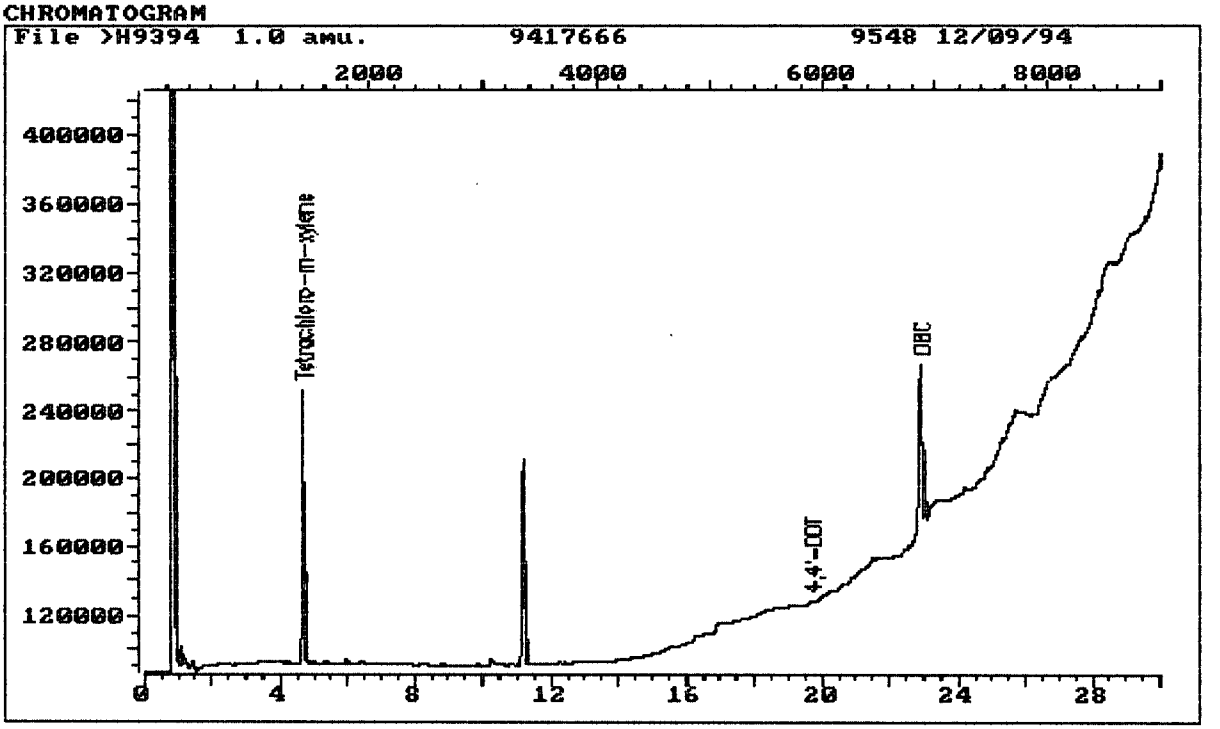
Data File: >G9394::G3 Quant Output File: ^G9394::QT
Name: 9417666 Instrument ID: G
Misc: 9548 12/09/94 RFWI BB-DL-07

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 12:26

Operator ID: DANIEL
Quant Time : 941227 08:45
Injected at: 941223 14:58

507

CHROMATOGRAM

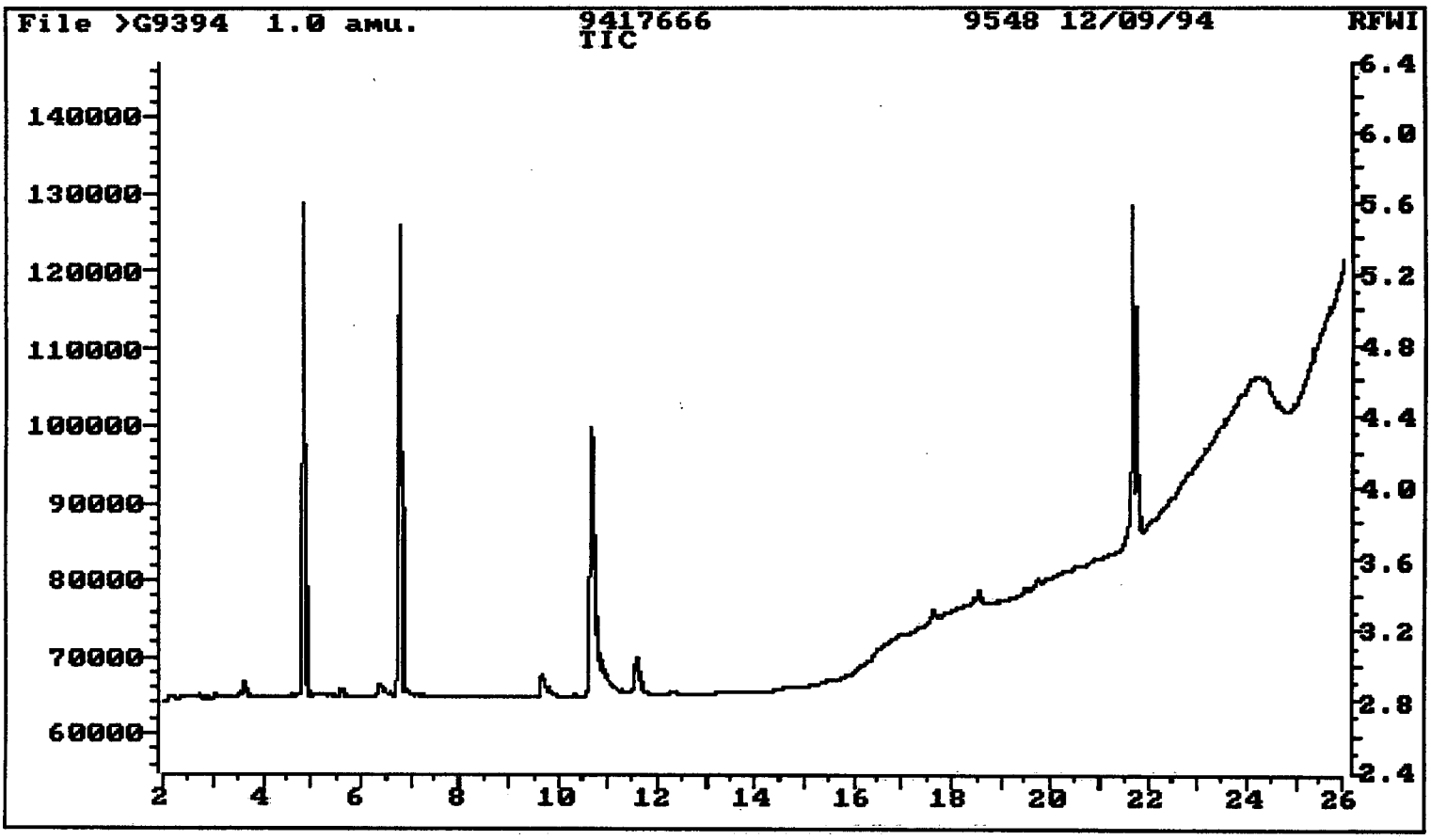


Data File: >H9394::G3 Quant Output File: ^H9394::QT
Name: 9417666 Instrument ID: H
Misc: 9548 12/09/94 RFWI BB-DL-07

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941222 13:04

Operator ID: DANIEL
Quant Time : 941227 08:58
Injected at: 941223 15:35

508


File >G9394 1.0 amu.
9417666
TIC
9548 12/09/94
RFWI
140000
130000
120000
110000
100000
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60000
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509

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER	9548	MATRIX	Aqueous
SAMPLE NUMBER	9417667	DILUTION FACTOR	1
DATA FILE	>G9225	DATE EXTRACTED	12/06/94
CLIENT NAME	RFWI	DATE ANALYZED	12/15/94
FIELD ID	BB-RB-01	ANALYZED BY	DANIEL

COMPOUND	UG/L	MDL
A-BHC	U	.050
B-BHC	U	.050
Lindane	U	.050
D-BHC	U	.050
Heptachlor	U	.050
Aldrin	U	.050
Heptachlor Epoxide	U	.050
Endosulfan I	U	.050
A-Chlordane	U	.050
G-Chlordane	U	.050
Dieldrin	.006 J	.100
4,4'-DDE	U	.100
Endrin	U	.100
Endosulfan II	U	.100
4,4'-DDD	U	.100
Endrin Aldehyde	U	.100
Endosulfan Sulfate	U	.100
4,4'-DDT	U	.100
Endrin Ketone	U	.100
Methoxychlor	U	.500
Toxaphene	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

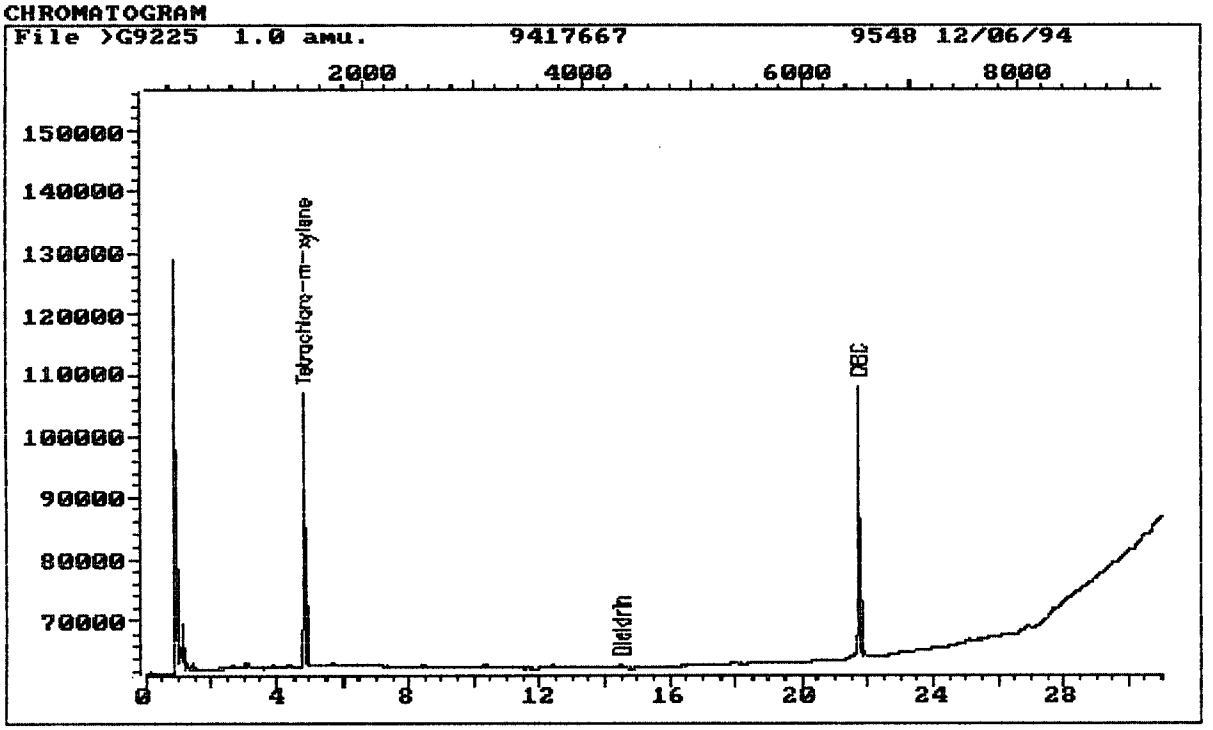
CASE NUMBER	9548	MATRIX	Aqueous
SAMPLE NUMBER	9417667	DILUTION FACTOR	1
DATA FILE	>G9225	DATE EXTRACTED	12/06/94
CLIENT NAME	RFWI	DATE ANALYZED	12/15/94
FIELD ID	BB-RB-01	ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/L	MDL
12674112	Aroclor-1016	U	1.00
11104282	Aroclor-1221	U	2.00
11141165	Aroclor-1232	U	1.00
53469219	Aroclor-1242	U	1.00
12672296	Aroclor-1248	U	1.00
11097691	Aroclor-1254	U	1.00
11096825	Aroclor-1260	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.

CHROMATOGRAM



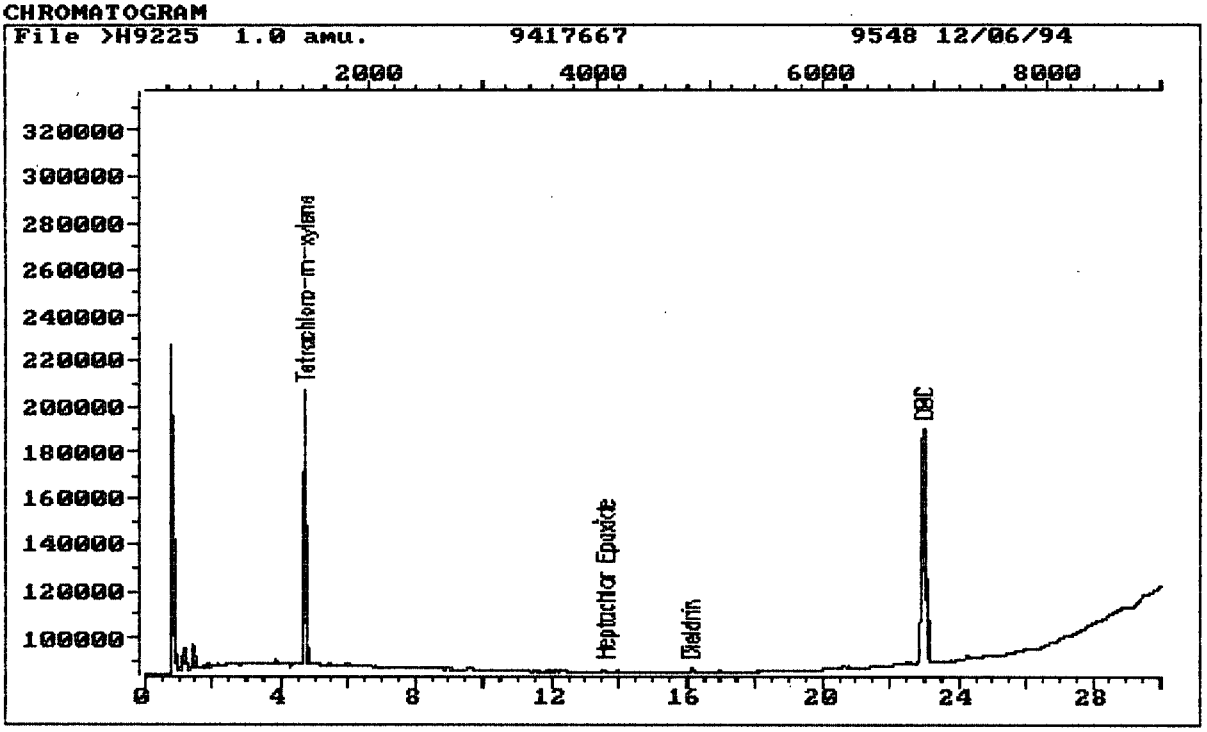
Data File: >G9225::G1 Quant Output File: ^G9225::QT
Name: 9417667 Instrument ID: G
Misc: 9548 12/06/94 RFWI BB-RB-01

Id File: IDPP7::G5
Title: PESTICIDES/PCB'S HP5890-G RTX-5 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941215 11:40

Operator ID: DANIEL
Quant Time : 941216 07:04
Injected at: 941215 21:29

510

CHROMATOGRAM



Data File: >H9225::G1 Quant Output File: ^H9225::QT
Name: 9417667 Instrument ID: H
Misc: 9548 12/06/94 RFWI BB-RB-01

Id File: IDPST8::G4
Title: PESTICIDES HP5890-H RTX-1701 0.53mm 1.0uL
Last Calibration: 941031 12:14 Last Qcal Time: 941215 12:17

Operator ID: DANIEL
Quant Time : 941215 22:39
Injected at: 941215 22:06

511

Initial Calibration Data
HSL Compounds

Case No:

Instrument ID: GC/ECD #7

Contractor: ACCREDITED LABS INC.

Calibration Date: 09/22/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 5000 Maximum % RSD for CCC is 20%

Comp No.	Compound	RF .100	RF .250	RF .333	RF .500	RF .750	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CCC	SPCC	
	Laboratory ID:	>G7974	>G7973	>G7972	>G7971	>G7970							
1)	A-BHC	358380.	382600.	377713.	388132.	370293.	5.799	375424.	3.081	.999154			(Conc=.0500,
2)	B-BHC	182550.	189916.	186574.	180326.	166469.	6.605	181167.	4.971	.997141			(Conc=.100,.
3)	Lindane	321360.	341184.	337479.	341444.	324203.	6.773	333134.	2.891	.998975			(Conc=.0500,
4)	D-BHC	332440.	354988.	353417.	356154.	340588.	7.547	347517.	3.020	.999180			
5)	Heptachlor	381930.	374532.	371862.	374392.	364057.	9.116	373355.	1.719	.999799			
6)	Aldrin	306620.	332566.	331183.	333833.	322478.	10.342	325336.	3.495	.999429			(Conc=.200,.
7)	Heptachlor Epoxide	288730.	316364.	321270.	320828.	309553.	11.903	311349.	4.334	.999283			
8)	G-Chlordane	329500.	334244.	333553.	326318.	312105.	12.827	327144.	2.751	.999163			
9)	Endosulfan I	267530.	303664.	304381.	298326.	292095.	13.279	293199.	5.175	.999340			
10)	A-Chlordane	313930.	327328.	329222.	325034.	311604.	13.441	321424.	2.515	.999193			
11)	Dieldrin	282030.	296616.	309000.	311784.	312465.	14.327	302379.	4.316	.999928			
12)	4,4'-DDE	268630.	285576.	293739.	293272.	282135.	14.465	284670.	3.603	.999243			
13)	Endrin	247000.	251608.	255165.	263964.	262925.	15.169	256132.	2.844	.999867			
14)	Endosulfan II	270220.	286886.	289385.	287572.	276484.	15.578	282109.	2.958	.999262			(Conc=.200,.
15)	4,4'-DDD	224085.	245050.	248508.	249942.	241067.	16.162	241730.	4.320	.999328			(Conc=.200,.
16)	Endrin Aldehyde	189712.	191600.	184836.	183360.	175116.	16.382	184925.	3.485	.999248			(Conc=.250,.
17)	Endosulfan Sulfate	236600.	261022.	253144.	253812.	246292.	17.355	250174.	3.680	.999389			(Conc=.200,.
18)	4,4'-DDT	237780.	253094.	258453.	257041.	252117.	17.679	251697.	3.264	.999715			(Conc=.200,.
19)	Endrin Ketone	321480.	340148.	341150.	333892.	319776.	19.179	331289.	3.061	.999000			(Conc=.200,.
20)	Methoxychlor	155108.	153730.	153023.	145779.	139126.	20.223	149353.	4.530	.998830			(Conc=1.00,2
21)	DBC	233994.	241374.	244316.	242389.	236973.	21.565	239809.	1.760	.999734			(Conc=1.00,2
22)	Toxaphene Peak 2	266201.	224416.	220562.	227899.	213230.	19.258	230462.	8.986	.999389			(Conc=1.00,1

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

223

Initial Calibration Data
HSL Compounds

Case No: Instrument ID: GC/ECD #8

Contractor: ACCREDITED LABS INC. Calibration Date: 09/22/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 5000 Maximum % RSD for CCC is 20%

Comp No.	Compound	RF .100	RF .250	RF .333	RF .500	RF .750	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CCC	SPCC	
	Laboratory ID:	>H7974	>H7973	>H7972	>H7971	>H7970							
1)	A-BHC	956060.	1021256	1035365	1039752	1063570	7.609	1023201	3.959	.999931			(Conc=.0500,
2)	B-BHC	476080.	446104.	427655.	441362.	444055.	12.509	447051.	3.972	.999613			
3)	Lindane	912800.	954424.	942120.	953140.	958600.	9.080	944217.	1.969	.999972			(Conc=.0500,
4)	D-BHC	841530.	856460.	861871.	910672.	920004.	13.195	878107.	3.980	.999644			
5)	Heptachlor	973630.	1060532	1005018	1029222	1040320	9.685	1021744	3.283	.999703			
6)	Aldrin	868310.	894334.	872881.	903613.	910887.	10.612	890005.	2.105	.999833			(Conc=.200,.
7)	Heptachlor Epoxide	837560.	822920.	830640.	848890.	852380.	13.519	838478.	1.468	.999897			
8)	G-Chlordane	808080.	843232.	824426.	842616.	842289.	14.918	832129.	1.875	.999932			
9)	Endosulfan I	803800.	876540.	853312.	862756.	846328.	14.489	848547.	3.236	.999706			
10)	A-Chlordane	847270.	844396.	837384.	832386.	839912.	15.180	840270.	.696	.999963			
11)	Dieldrin	782050.	796832.	808799.	827934.	849949.	16.006	813113.	3.268	.999763			
12)	4,4'-DDE	755180.	785144.	784658.	799486.	808720.	15.727	786638.	2.581	.999956			
13)	Endrin	719430.	709260.	699595.	715776.	739076.	16.805	716627.	2.042	.999526			
14)	Endosulfan II	712430.	737508.	710063.	748074.	746985.	19.004	731012.	2.534	.999679			(Conc=.200,.
15)	4,4'-DDD	556965.	603596.	570384.	616684.	633232.	19.127	596172.	5.338	.999121			(Conc=.200,.
16)	Endrin Aldehyde	314196.	328515.	345179.	318859.	317283.	20.823	324807.	3.874	.998762			(Conc=.250,.
17)	Endosulfan Sulfate	569325.	580454.	544589.	587364.	590560.	22.208	574458.	3.234	.999181			(Conc=.200,.
18)	4,4'-DDT	640180.	664542.	646085.	676595.	686427.	19.695	662766.	2.963	.999691			(Conc=.200,.
19)	Endrin Ketone	760865.	780344.	805052.	766821.	818919.	23.571	786400.	3.165	.998803			(Conc=.200,.
20)	Methoxychlor	380823.	364930.	346875.	354687.	343901.	22.561	358243.	4.192	.999679			(Conc=1.00,2
21)	DBC	551074.	565055.	537458.	569553.	570357.	22.906	558699.	2.537	.999536			(Conc=1.00,2
22)	Toxaphene Peak 2	462515.	609848.	575821.	577897.	576172.	21.287	560451.	10.101	.999973			(Conc=1.00,1

RF - Response Factor (Subscript is amount in ug/l)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

224

Initial Calibration Data
HSL Compounds

Case No:

Instrument ID: GC/ECD #7

Contractor: ACCREDITED LABS INC.

Calibration Date: 09/22/94

Contract No:

Minimum $\overline{RF}$ for SPCC is 10000 Maximum % RSD for CCC is 20%

Comp No.	Compound	>G7989 RF 1.00	>G7988 RF 10.00	>G7987 RF 25.00	>G7986 RF 50.00	>G7985 RF 100.00	$\overline{RRT}$	$\overline{RF}$	% RSD	CORR1	CCC	SPCC
1)	Aroclor-1016 Peak 1	9353.00	8601.60	7876.12	6594.68	6575.12	7.688	7800.10	15.719	.998715		
2)	Aroclor-1016 Peak 2	30653.0	25859.3	23402.6	19587.1	19708.7	8.617	23842.2	19.430	.998769		
3)	Aroclor-1016 Peak 3	11555.0	10950.9	10186.2	8461.00	8518.56	8.970	9934.33	14.145	.998629		
4)	Aroclor-1221 Peak 1	1502.00	1896.80	1798.52	1537.72	1576.25	3.367	1662.26	10.514	.998984		
5)	Aroclor-1221 Peak 2	2793.00	3407.10	3109.36	2641.34	2637.18	5.319	2917.60	11.456	.998816		
6)	Aroclor-1221 Peak 3	7095.00	8476.60	7604.68	6265.28	6228.42	5.776	7134.00	13.299	.998254		
7)	Aroclor-1232 Peak 1	40038.0	35591.5	32302.6	26490.8	27038.3	5.770	32292.2	17.799	.998426		
8)	Aroclor-1232 Peak 2	74818.0	63911.5	58356.1	48013.1	48853.0	8.603	58790.4	18.983	.998511		
9)	Aroclor-1232 Peak 3	29953.0	28095.0	25520.9	20861.1	21147.6	8.957	25115.5	16.209	.998343		
10)	Aroclor-1242 Peak 1	16737.0	15564.6	14134.9	11743.8	11762.3	8.603	13988.5	16.007	.998594		
11)	Aroclor-1242 Peak 2	6894.00	6563.00	6205.20	5160.52	5163.61	8.955	5997.27	13.346	.998636		
12)	Aroclor-1242 Peak 3	7579.00	6401.00	6070.64	5123.72	5198.36	12.945	6074.54	16.548	.998943		
13)	Aroclor-1248 Peak 1	14796.0	13139.8	12445.4	10095.2	9915.17	8.600	12078.3	17.198	.998054		
14)	Aroclor-1248 Peak 2	9875.00	9823.90	9284.16	7630.48	7578.19	11.088	8838.35	13.014	.998359		
15)	Aroclor-1248 Peak 3	12381.0	11121.5	10468.6	8621.04	8592.93	12.940	10237.0	16.012	.998471		
16)	Aroclor-1254 Peak 1	9320.00	12111.0	10746.8	8747.90	8654.08	14.703	9915.95	14.975	.997904		
17)	Aroclor-1254 Peak 2	10831.0	12517.4	11241.0	9154.34	9072.62	15.757	10563.3	13.846	.998019		
18)	Aroclor-1254 Peak 3	13036.0	13680.8	12679.8	10557.4	10680.7	17.813	12126.9	11.736	.998632		
19)	Aroclor-1260 Peak 1	23398.0	20595.1	18582.9	15441.5	15511.5	16.721	18705.8	18.220	.998626		
20)	Aroclor-1260 Peak 2	23734.0	21784.3	20565.4	17398.9	17780.4	17.818	20252.6	13.254	.998935		
21)	Aroclor-1260 Peak 3	33093.0	32265.2	30778.7	26431.4	27354.0	20.620	29984.5	9.871	.999064		
22)	DBC	397205.	350880.	315622.	302864.	311957.	21.536	335706.	11.593	.999758		(Conc=.200,.

RF - Response Factor (Subscript is amount in ug/L)

$\overline{RRT}$ - Average Relative Retention Time (RT Std/RT Istd)

$\overline{RF}$ - Average Response Factor

%RSD - Percent Relative Standard Deviation

CORRn - Coefficient of Correlation (nth degree)

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

225

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/12/94

Contractor: ACCREDITED LABS INC. Time: 18:32

Contract No: Laboratory ID: >G9173

Instrument ID: GC/ECD #7 Initial Calibration Date: 09/22/94

Minimum $\overline{RF}$ for SPCC is 5000 Maximum % Diff for CCC is 15%

Compound	$\overline{RF}$	RF	%Diff	CCC SPCC	
A-BHC	375424.	328707.	12.44		(Conc=.167)
B-BHC	181167.	179012.	1.19		(Conc=.333)
Lindane	333134.	319060.	4.22		(Conc=.167)
D-BHC	347517.	301390.	13.27		
Heptachlor	373355.	369381.	1.06		
Aldrin	325336.	330468.	1.58		(Conc=.667)
Heptachlor Epoxide	311349.	314979.	1.17		
G-Chlordane	327144.	325105.	.62		
Endosulfan I	293199.	296222.	1.03		
A-Chlordane	321424.	336595.	4.72		
Dieldrin	302379.	293333.	2.99		
4,4'-DDE	284670.	283784.	.31		
Endrin	256132.	251889.	1.66		
Endosulfan II	282109.	290562.	3.00		(Conc=.667)
4,4'-DDD	241730.	231139.	4.38		(Conc=.667)
Endrin Aldehyde	184925.	170044.	8.05		(Conc=.833)
Endosulfan Sulfate	250174.	262396.	4.89		(Conc=.667)
4,4'-DDT	251697.	233205.	7.35		(Conc=.667)
Endrin Ketone	331289.	329807.	.45		(Conc=.667)
Methoxychlor	149353.	155159.	3.89		(Conc=3.33)
DBC	239809.	250301.	4.37		(Conc=3.33)
Toxaphene Peak 2	230462.	228198.	.98		(Conc=25.00)

RF - Response Factor from daily standard file at .333 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

226

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/12/94

Contractor: ACCREDITED LABS INC.

Time: 10:36

Contract No:

Laboratory ID: >G9166

Instrument ID: GC/ECD #7

Initial Calibration Date: 09/22/94

Minimum $\overline{RF}$ for SPCC is 10000 Maximum % Diff for CCC is 15%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Aroclor-1016 Peak 1	7800.10	7796.88	.04		
Aroclor-1016 Peak 2	23842.2	22459.3	5.80		
Aroclor-1016 Peak 3	9934.33	9590.16	3.46		
Aroclor-1221 Peak 1	1662.26	1977.00	18.93		
Aroclor-1221 Peak 2	2917.60	3133.68	7.41		
Aroclor-1221 Peak 3	7134.00	7479.32	4.84		
Aroclor-1232 Peak 1	32292.2	28888.9	10.54		
Aroclor-1232 Peak 2	58790.4	50962.2	13.32		
Aroclor-1232 Peak 3	25115.5	22547.9	10.22		
Aroclor-1242 Peak 1	13988.5	12181.0	12.92		
Aroclor-1242 Peak 2	5997.27	5539.00	7.64		
Aroclor-1242 Peak 3	6074.54	4953.60	18.45		
Aroclor-1248 Peak 1	12078.3	11168.2	7.54		
Aroclor-1248 Peak 2	8838.35	8352.04	5.50		
Aroclor-1248 Peak 3	10237.0	8522.60	16.75		
Aroclor-1254 Peak 1	9915.95	9957.92	.42		
Aroclor-1254 Peak 2	10563.3	11910.1	12.75		
Aroclor-1254 Peak 3	12126.9	12083.4	.36		
Aroclor-1260 Peak 1	18705.8	17669.6	5.54		
Aroclor-1260 Peak 2	20252.6	18513.8	8.59		
Aroclor-1260 Peak 3	29984.5	26982.2	10.01		
DBC	335706.	332809.	.86	(Conc=1.00)	

RF - Response Factor from daily standard file at 25.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

227

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/15/94

Contractor: ACCREDITED LABS INC.

Time: 11:40

Contract No:

Laboratory ID: >G9210

Instrument ID: GC/ECD #7

Initial Calibration Date: 09/22/94

Minimum $\overline{RF}$ for SPCC is 5000

Maximum % Diff for CCC is 15%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
A-BHC	375424.	354431.	5.59			(Conc=.167)
B-BHC	181167.	189318.	4.50			(Conc=.333)
Lindane	333134.	340287.	2.15			(Conc=.167)
D-BHC	347517.	325384.	6.37			
Heptachlor	373355.	408817.	9.50			
Aldrin	325336.	362580.	11.45			(Conc=.667)
Heptachlor Epoxide	311349.	335700.	7.82			
G-Chlordane	327144.	353796.	8.15			
Endosulfan I	293199.	313931.	7.07			
A-Chlordane	321424.	360682.	12.21			
Dieldrin	302379.	316426.	4.65			
4,4'-DDE	284670.	295255.	3.72			
Endrin	256132.	270802.	5.73			
Endosulfan II	282109.	318168.	12.78			(Conc=.667)
4,4'-DDD	241730.	247754.	2.49			(Conc=.667)
Endrin Aldehyde	184925.	181228.	2.00			(Conc=.833)
Endosulfan Sulfate	250174.	284597.	13.76			(Conc=.667)
4,4'-DDT	251697.	273130.	8.52			(Conc=.667)
Endrin Ketone	331289.	369387.	11.50			(Conc=.667)
Methoxychlor	149353.	168681.	12.94			(Conc=3.33)
DBC	239809.	267715.	11.64			(Conc=3.33)
Toxaphene Peak 2	230462.	250883.	8.86			(Conc=25.00)

RF - Response Factor from daily standard file at .333 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

228

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/15/94

Contractor: ACCREDITED LABS INC.

Time: 07:04

Contract No:

Laboratory ID: >G9204

Instrument ID: GC/ECD #7

Initial Calibration Date: 09/22/94

Minimum $\overline{RF}$ for SPCC is 10000

Maximum % Diff for CCC is 15%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Aroclor-1016 Peak 1	7800.10	8021.28	2.84		
Aroclor-1016 Peak 2	23842.2	23366.6	1.99		
Aroclor-1016 Peak 3	9934.33	10018.9	.85		
Aroclor-1221 Peak 1	1662.26	1735.88	4.43		
Aroclor-1221 Peak 2	2917.60	3002.80	2.92		
Aroclor-1221 Peak 3	7134.00	7708.64	8.05		
Aroclor-1232 Peak 1	32292.2	28413.1	12.01		
Aroclor-1232 Peak 2	58790.4	51715.2	12.03		
Aroclor-1232 Peak 3	25115.5	21796.4	13.22		
Aroclor-1242 Peak 1	13988.5	12668.8	9.43		
Aroclor-1242 Peak 2	5997.27	5316.92	11.34		
Aroclor-1242 Peak 3	6074.54	5504.16	9.39		
Aroclor-1248 Peak 1	12078.3	11656.5	3.49		
Aroclor-1248 Peak 2	8838.35	8680.40	1.79		
Aroclor-1248 Peak 3	10237.0	9881.36	3.47		
Aroclor-1254 Peak 1	9915.95	10792.0	8.83		
Aroclor-1254 Peak 2	10563.3	11296.3	6.94		
Aroclor-1254 Peak 3	12126.9	12745.3	5.10		
Aroclor-1260 Peak 1	18705.8	18737.4	.17		
Aroclor-1260 Peak 2	20252.6	20092.7	.79		
Aroclor-1260 Peak 3	29984.5	30316.7	1.11		
DBC	335706.	333988.	.51	(Conc=1.00)	

RF - Response Factor from daily standard file at 25.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

229

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/19/94

Contractor: ACCREDITED LABS INC.

Time: 19:26

Contract No:

Laboratory ID: >G9278

Instrument ID: GC/ECD #7

Initial Calibration Date: 09/22/94

Minimum $\overline{RF}$ for SPCC is 5000

Maximum % Diff for CCC is 15%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
A-BHC	375424.	409742.	9.14			(Conc=.167)
B-BHC	181167.	206817.	14.16			(Conc=.333)
Lindane	333134.	380443.	14.20			(Conc=.167)
D-BHC	347517.	351435.	1.13			
Heptachlor	373355.	423318.	13.38			
Aldrin	325336.	370279.	13.81			(Conc=.667)
Heptachlor Epoxide	311349.	342991.	10.16			
G-Chlordane	327144.	368544.	12.65			
Endosulfan I	293199.	333952.	13.90			
A-Chlordane	321424.	359087.	11.72			
Dieldrin	302379.	333345.	10.24			
4,4'-DDE	284670.	299895.	5.35			
Endrin	256132.	291766.	13.91			
Endosulfan II	282109.	321223.	13.86			(Conc=.667)
4,4'-DDD	241730.	254927.	5.46			(Conc=.667)
Endrin Aldehyde	184925.	201759.	9.10			(Conc=.833)
Endosulfan Sulfate	250174.	277480.	10.91			(Conc=.667)
4,4'-DDT	251697.	286813.	13.95			(Conc=.667)
Endrin Ketone	331289.	365033.	10.19			(Conc=.667)
Methoxychlor	149353.	166447.	11.45			(Conc=3.33)
DBC	239809.	267269.	11.45			(Conc=3.33)
Toxaphene Peak 2	230462.	219276.	4.85			(Conc=25.00)

RF - Response Factor from daily standard file at .333 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/19/94

Contractor: ACCREDITED LABS INC.

Time: 17:34

Contract No:

Laboratory ID: >G9275

Instrument ID: GC/ECD #7

Initial Calibration Date: 09/22/94

Minimum $\overline{RF}$ for SPCC is 10000

Maximum % Diff for CCC is 15%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Aroclor-1016 Peak 1	7800.10	8706.04	11.61		
Aroclor-1016 Peak 2	23842.2	25320.6	6.20		
Aroclor-1016 Peak 3	9934.33	10752.8	8.24		
Aroclor-1221 Peak 1	1662.26	1879.28	13.06		
Aroclor-1221 Peak 2	2917.60	3178.16	8.93		
Aroclor-1221 Peak 3	7134.00	7682.40	7.69		
Aroclor-1232 Peak 1	32292.2	31703.4	1.82		
Aroclor-1232 Peak 2	58790.4	58548.1	.41		
Aroclor-1232 Peak 3	25115.5	24738.7	1.50		
Aroclor-1242 Peak 1	13988.5	13947.6	.29		
Aroclor-1242 Peak 2	5997.27	5866.08	2.19		
Aroclor-1242 Peak 3	6074.54	5316.12	12.49		
Aroclor-1248 Peak 1	12078.3	13024.1	7.83		
Aroclor-1248 Peak 2	8838.35	9758.36	10.41		
Aroclor-1248 Peak 3	10237.0	9839.60	3.88		
Aroclor-1254 Peak 1	9915.95	11300.8	13.97		
Aroclor-1254 Peak 2	10563.3	12125.6	14.79		
Aroclor-1254 Peak 3	12126.9	13594.3	12.10		
Aroclor-1260 Peak 1	18705.8	20713.4	10.73		
Aroclor-1260 Peak 2	20252.6	22280.9	10.01		
Aroclor-1260 Peak 3	29984.5	33614.8	12.11		
DBC	335706.	356744.	6.27	(Conc=1.00)	

RF - Response Factor from daily standard file at 25.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

231

Continuing Calibration Check
HSL Compounds

Case No:

Calibration Date: 12/22/94

Contractor: ACCREDITED LABS INC.

Time: 12:26

Contract No:

Laboratory ID: >G9356

Instrument ID: GC/ECD #7

Initial Calibration Date: 09/22/94

Minimum $\overline{RF}$ for SPCC is 5000

Maximum % Diff for CCC is 15%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC	
A-BHC	375424.	364138.	3.01			(Conc=.167)
B-BHC	181167.	193180.	6.63			(Conc=.333)
Lindane	333134.	348641.	4.65			(Conc=.167)
D-BHC	347517.	330207.	4.98			
Heptachlor	373355.	405360.	8.57			
Aldrin	325336.	361850.	11.22			(Conc=.667)
Heptachlor Epoxide	311349.	339661.	9.09			
G-Chlordane	327144.	351715.	7.51			
Endosulfan I	293199.	318877.	8.76			
A-Chlordane	321424.	348592.	8.45			
Dieldrin	302379.	312571.	3.37			
4,4'-DDE	284670.	299676.	5.27			
Endrin	256132.	271279.	5.91			
Endosulfan II	282109.	309118.	9.57			(Conc=.667)
4,4'-DDD	241730.	262351.	8.53			(Conc=.667)
Endrin Aldehyde	184925.	189157.	2.29			(Conc=.833)
Endosulfan Sulfate	250174.	276243.	10.42			(Conc=.667)
4,4'-DDT	251697.	260382.	3.45			(Conc=.667)
Endrin Ketone	331289.	362883.	9.54			(Conc=.667)
Methoxychlor	149353.	168406.	12.76			(Conc=3.33)
DBC	239809.	270179.	12.66			(Conc=3.33)
Toxaphene Peak 2	230462.	245650.	6.59			(Conc=25.00)

RF - Response Factor from daily standard file at .333 ug/l

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

232

Continuing Calibration Check
HSL Compounds

Case No: Calibration Date: 12/22/94

Contractor: ACCREDITED LABS INC. Time: 08:12

Contract No: Laboratory ID: >G9350

Instrument ID: GC/ECD #7 Initial Calibration Date: 09/22/94

Minimum $\overline{RF}$ for SPCC is 10000 Maximum % Diff for CCC is 15%

Compound	$\overline{RF}$	RF	%Diff	CCC	SPCC
Aroclor-1016 Peak 1	7800.10	8375.76	7.38		
Aroclor-1016 Peak 2	23842.2	24684.0	3.53		
Aroclor-1016 Peak 3	9934.33	10513.8	5.83		
Aroclor-1221 Peak 1	1662.26	1984.44	19.38		
Aroclor-1221 Peak 2	2917.60	3105.68	6.45		
Aroclor-1221 Peak 3	7134.00	7602.84	6.57		
Aroclor-1232 Peak 1	32292.2	31592.0	2.17		
Aroclor-1232 Peak 2	58790.4	58324.4	.79		
Aroclor-1232 Peak 3	25115.5	24800.6	1.25		
Aroclor-1242 Peak 1	13988.5	14136.5	1.06		
Aroclor-1242 Peak 2	5997.27	5984.24	.22		
Aroclor-1242 Peak 3	6074.54	5457.64	10.16		
Aroclor-1248 Peak 1	12078.3	13136.6	8.76		
Aroclor-1248 Peak 2	8838.35	9799.88	10.88		
Aroclor-1248 Peak 3	10237.0	10096.7	1.37		
Aroclor-1254 Peak 1	9915.95	10892.6	9.85		
Aroclor-1254 Peak 2	10563.3	11175.7	5.80		
Aroclor-1254 Peak 3	12126.9	12553.2	3.51		
Aroclor-1260 Peak 1	18705.8	19401.0	3.72		
Aroclor-1260 Peak 2	20252.6	20996.3	3.67		
Aroclor-1260 Peak 3	29984.5	31574.1	5.30		
DBC	335706.	365004.	8.73	(Conc=1.00)	

RF - Response Factor from daily standard file at 25.00 ug/L

$\overline{RF}$ - Average Response Factor from Initial Calibration Form VI

%Diff - % Difference from original average or curve

CCC - Calibration Check Compounds (*) SPCC - System Performance Check Compounds (**)

233

ACCREDITED LABORATORIES, INC.
RETENTION TIME WINDOW

INSTRUMENT ID: HP5890-G
DATE(S) ANALYZED: 09/22/94

Primary Column

ANALYTE	RETENTION TIMES 1/10 MIX A/B	1/4 MIX A/B	1/3 MIX A/B	1/2 MIX A/B	3/4 MIX A/B
A-BHC	5.80	5.80	5.80	5.80	5.81
B-BHC	6.60	6.60	6.60	6.60	6.61
LINDANE	6.77	6.77	6.77	6.77	6.78
D-BHC	7.54	7.54	7.54	7.54	7.56
HEPTACHLOR	9.11	9.11	9.11	9.11	9.13
ALDRIN	10.34	10.34	10.34	10.34	10.35
HEP EPOXIDE	11.90	11.90	11.90	11.90	11.91
G-CHLORDANE	12.82	12.83	12.82	12.82	12.84
ENDOSULFAN I	13.28	13.28	13.28	13.28	13.29
A-CHLORDANE	13.44	13.44	13.44	13.44	13.45
DIELDRIN	14.33	14.32	14.32	14.33	14.34
4,4'-DDE	14.46	14.46	14.46	14.46	14.47
ENDRIN	15.17	15.17	15.17	15.17	15.18
ENDOSULFAN II	15.58	15.58	15.57	15.58	15.59
4,4'-DDD	16.16	16.16	16.16	16.16	16.17
ENDRIN ALDEHYDE	16.38	16.38	16.38	16.38	16.39
ENDO SULFATE	17.35	17.35	17.35	17.35	17.36
4,4'-DDT	17.68	17.68	17.68	17.68	17.69
ENDRIN KETONE	19.18	19.18	19.18	19.18	19.19
METHOXYCHLOR	20.22	20.22	20.22	20.22	20.23

ANALYTE	RT WINDOW	FROM	TO
A-BHC	0.050	5.75	5.85
B-BHC	0.050	6.55	6.65
LINDANE	0.050	6.72	6.82
D-BHC	0.050	7.49	7.59
HEPTACHLOR	0.050	9.06	9.16
ALDRIN	0.050	10.29	10.39
HEP EPOXIDE	0.070	11.83	11.97
G-CHLORDANE	0.070	12.76	12.90
ENDOSULFAN I	0.070	13.21	13.35
A-CHLORDANE	0.070	13.37	13.51
DIELDRIN	0.070	14.26	14.40
4,4'-DDE	0.070	14.39	14.53
ENDRIN	0.070	15.10	15.24
ENDOSULFAN II	0.070	15.51	15.65
4,4'-DDD	0.070	16.09	16.23
ENDRIN ALDEHYDE	0.070	16.31	16.45
ENDO SULFATE	0.070	17.28	17.42
4,4'-DDT	0.070	17.61	17.75
ENDRIN KETONE	0.070	19.11	19.25
METHOXYCHLOR	0.070	20.15	20.29

ACCREDITED LABORATORIES, INC.
RETENTION TIME WINDOW

INSTRUMENT ID: HP5890-H
DATE(S) ANALYZED: 09/22/94

Confirmation Column

ANALYTE	RETENTION TIMES 1/10 MIX A/B	1/4 MIX A/B	1/3 MIX A/B	1/2 MIX A/B	3/4 MIX A/B
A-BHC	7.61	7.61	7.61	7.61	7.61
LINDANE	9.08	9.08	9.08	9.08	9.08
HEPTACHLOR	9.68	9.68	9.69	9.69	9.69
ALDRIN	10.61	10.61	10.61	10.61	10.61
B-BHC	12.51	12.51	12.51	12.51	12.51
D-BHC	13.19	13.19	13.19	13.20	13.20
HEP EPOXIDE	13.52	13.52	13.52	13.52	13.52
ENDOSULFAN I	14.49	14.49	14.49	14.49	14.49
G-CHLORDANE	14.92	14.92	14.92	14.92	14.92
A-CHLORDANE	15.18	15.18	15.18	15.18	15.18
4,4'-DDE	15.72	15.73	15.73	15.73	15.73
DIELDRIN	16.00	16.00	16.01	16.01	16.01
ENDRIN	16.80	16.80	16.81	16.81	16.81
ENDOSULFAN II	19.00	19.00	19.00	19.01	19.01
4,4'-DDD	19.13	19.12	19.13	19.13	19.13
4,4'-DDT	19.69	19.69	19.69	19.70	19.70
ENDRIN ALDEHYDE	20.82	20.82	20.82	20.82	20.83
ENDO SULFATE	22.21	22.21	22.21	22.21	22.21
METHOXYCHLOR	22.56	22.56	22.56	22.56	22.56
ENDRIN KETONE	23.57	23.57	23.57	23.57	23.57

ANALYTE	RT WINDOW	FROM	TO
A-BHC	0.050	7.56	7.66
LINDANE	0.050	9.03	9.13
HEPTACHLOR	0.050	9.64	9.74
ALDRIN	0.050	10.56	10.66
B-BHC	0.050	12.46	12.56
D-BHC	0.050	13.14	13.24
HEP EPOXIDE	0.070	13.45	13.59
ENDOSULFAN I	0.070	14.42	14.56
G-CHLORDANE	0.070	14.85	14.99
A-CHLORDANE	0.070	15.11	15.25
4,4'-DDE	0.070	15.66	15.80
DIELDRIN	0.070	15.94	16.08
ENDRIN	0.070	16.74	16.88
ENDOSULFAN II	0.070	18.93	19.07
4,4'-DDD	0.070	19.06	19.20
4,4'-DDT	0.070	19.62	19.76
ENDRIN ALDEHYDE	0.070	20.75	20.89
ENDO SULFATE	0.070	22.14	22.28
METHOXYCHLOR	0.070	22.49	22.63
ENDRIN KETONE	0.070	23.50	23.64

235

ACCREDITED LABORATORIES, INC.
RETENTION TIME WINDOW

INSTRUMENT ID: HP5890-G GC #7
DATE(S) ANALYZED: 09/22/94 to 09/23/94

RETENTION TIMES

ANALYTE	0.10 ug/L	1.00 ug/L	2.50 ug/L	5.00 ug/L	10.00 ug/L
Aroclor-1016 Peak-1	7.69	7.69	7.69	7.69	7.69
Aroclor-1016 Peak-2	8.62	8.62	8.62	8.62	8.62
Aroclor-1016 Peak-3	8.97	8.97	8.97	8.97	8.97
Aroclor-1221 Peak-1	3.37	3.37	3.37	3.37	3.37
Aroclor-1221 Peak-2	5.32	5.32	5.32	5.32	5.32
Aroclor-1221 Peak-3	5.78	5.77	5.77	5.78	5.78
Aroclor-1232 Peak-1	5.77	5.77	5.77	5.77	5.77
Aroclor-1232 Peak-2	8.60	8.60	8.60	8.60	8.60
Aroclor-1232 Peak-3	8.96	8.96	8.96	8.96	8.96
Aroclor-1242 Peak-1	8.60	8.60	8.60	8.60	8.60
Aroclor-1242 Peak-2	8.95	8.96	8.96	8.96	8.95
Aroclor-1242 Peak-3	12.94	12.95	12.95	12.95	12.94
Aroclor-1248 Peak-1	8.60	8.60	8.60	8.60	8.60
Aroclor-1248 Peak-2	11.09	11.08	11.09	11.09	11.09
Aroclor-1248 Peak-3	12.94	12.94	12.94	12.94	12.94
Aroclor-1254 Peak-1	14.70	14.70	14.70	14.70	14.70
Aroclor-1254 Peak-2	15.75	15.76	15.76	15.76	15.76
Aroclor-1254 Peak-3	17.81	17.81	17.81	17.81	17.81
Aroclor-1260 Peak-1	16.72	16.72	16.72	16.73	16.73
Aroclor-1260 Peak-2	17.81	17.82	17.81	17.82	17.82
Aroclor-1260 Peak-3	20.62	20.62	20.62	20.62	20.63

ANALYTE	RT WINDOW	FROM	TO
Aroclor-1016 Peak-1	0.070	7.62	7.76
Aroclor-1016 Peak-2	0.070	8.55	8.69
Aroclor-1016 Peak-3	0.070	8.90	9.04
Aroclor-1221 Peak-1	0.070	3.30	3.44
Aroclor-1221 Peak-2	0.070	5.25	5.39
Aroclor-1221 Peak-3	0.070	5.71	5.85
Aroclor-1232 Peak-1	0.070	5.70	5.84
Aroclor-1232 Peak-2	0.070	8.53	8.67
Aroclor-1232 Peak-3	0.070	8.89	9.03
Aroclor-1242 Peak-1	0.070	8.53	8.67
Aroclor-1242 Peak-2	0.070	8.89	9.03
Aroclor-1242 Peak-3	0.070	12.88	13.02
Aroclor-1248 Peak-1	0.070	8.53	8.67
Aroclor-1248 Peak-2	0.070	11.02	11.16
Aroclor-1248 Peak-3	0.070	12.87	13.01
Aroclor-1254 Peak-1	0.070	14.63	14.77
Aroclor-1254 Peak-2	0.070	15.69	15.83
Aroclor-1254 Peak-3	0.070	17.74	17.88
Aroclor-1260 Peak-1	0.070	16.65	16.79
Aroclor-1260 Peak-2	0.070	17.75	17.89
Aroclor-1260 Peak-3	0.070	20.55	20.69

ACCREDITED LABORATORIES, INC.
PESTICIDE RETENTION TIME WINDOW

Instrument ID: HP5890-G Primary Column

Date Analyzed: 12/12/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
A-BHC	5.89	5.84	5.94
B-BHC	6.76	6.71	6.81
Lindane	6.87	6.82	6.92
D-BHC	7.71	7.66	7.76
Heptachlor	9.23	9.18	9.28
Aldrin	10.46	10.41	10.51
Heptachlor Epoxide	12.03	11.96	12.10
G-Chlordane	12.97	12.90	13.04
Endosulfan I	13.42	13.35	13.49
A-Chlordane	13.58	13.51	13.65
Dieldrin	14.47	14.40	14.54
4,4'-DDE	14.62	14.55	14.69
Endrin	15.32	15.25	15.39
Endosulfan II	15.75	15.68	15.82
4,4'-DDD	16.34	16.27	16.41
Endrin Aldehyde	16.55	16.48	16.62
Endosulfan Sulfate	17.53	17.46	17.60
4,4'-DDT	17.85	17.78	17.92
Endrin Ketone	19.36	19.29	19.43
Methoxychlor	20.40	20.33	20.47

ACCREDITED LABORATORIES, INC.
PESTICIDE RETENTION TIME WINDOW

Instrument ID: HP5890-H Confirmation Column

Date Analyzed: 12/12/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
A-BHC	7.68	7.63	7.73
Lindane	9.16	9.11	9.21
Heptachlor	9.76	9.71	9.81
Aldrin	10.70	10.65	10.75
B-BHC	12.60	12.55	12.65
D-BHC	13.29	13.24	13.34
Heptachlor Epoxide	13.60	13.53	13.67
Endosulfan I	14.58	14.51	14.65
G-Chlordane	15.01	14.94	15.08
A-Chlordane	15.27	15.20	15.34
4,4'-DDE	15.82	15.75	15.89
Dieldrin	16.10	16.03	16.17
Endrin	16.91	16.84	16.98
Endosulfan II	19.11	19.04	19.18
4,4'-DDD	19.22	19.15	19.29
4,4'-DDT	19.79	19.72	19.86
Endrin Aldehyde	20.91	20.84	20.98
Endosulfan Sulfate	22.30	22.23	22.37
Methoxychlor	22.64	22.57	22.71
Endrin Ketone	23.68	23.61	23.75

ACCREDITED LABORATORIES, INC.
RT WINDOW FOR MULTICOMPONENT ANALYTES

Instrument ID: HP5890-G

Date Analyzed: 12/12/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
Aroclor-1016 Peak 1	7.79	7.72	7.86
Aroclor-1016 Peak 2	8.74	8.67	8.81
Aroclor-1016 Peak 3	9.09	9.02	9.16
Aroclor-1221 Peak 1	3.41	3.34	3.48
Aroclor-1221 Peak 2	5.39	5.32	5.46
Aroclor-1221 Peak 3	5.86	5.79	5.93
Aroclor-1232 Peak 1	5.86	5.79	5.93
Aroclor-1232 Peak 2	8.73	8.66	8.80
Aroclor-1232 Peak 3	9.08	9.01	9.15
Aroclor-1242 Peak 1	8.73	8.66	8.80
Aroclor-1242 Peak 2	9.08	9.01	9.15
Aroclor-1242 Peak 3	13.11	13.04	13.18
Aroclor-1248 Peak 1	8.73	8.66	8.80
Aroclor-1248 Peak 2	11.24	11.17	11.31
Aroclor-1248 Peak 3	13.11	13.04	13.18
Aroclor-1254 Peak 1	14.85	14.78	14.92
Aroclor-1254 Peak 2	15.93	15.86	16.00
Aroclor-1254 Peak 3	17.98	17.91	18.05
Aroclor-1260 Peak 1	16.88	16.81	16.95
Aroclor-1260 Peak 2	17.98	17.91	18.05
Aroclor-1260 Peak 3	20.79	20.72	20.86

ACCREDITED LABORATORIES, INC.
PESTICIDE RETENTION TIME WINDOW

Instrument ID: HP5890-G Primary Column

Date Analyzed: 12/15/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
A-BHC	5.89	5.84	5.94
B-BHC	6.77	6.72	6.82
Lindane	6.88	6.83	6.93
D-BHC	7.72	7.67	7.77
Heptachlor	9.23	9.18	9.28
Aldrin	10.46	10.41	10.51
Heptachlor Epoxide	12.04	11.97	12.11
G-Chlordane	12.98	12.91	13.05
Endosulfan I	13.42	13.35	13.49
A-Chlordane	13.59	13.52	13.66
Dieldrin	14.48	14.41	14.55
4,4'-DDE	14.63	14.56	14.70
Endrin	15.33	15.26	15.40
Endosulfan II	15.76	15.69	15.83
4,4'-DDD	16.35	16.28	16.42
Endrin Aldehyde	16.56	16.49	16.63
Endosulfan Sulfate	17.54	17.47	17.61
4,4'-DDT	17.86	17.79	17.93
Endrin Ketone	19.37	19.30	19.44
Methoxychlor	20.40	20.33	20.47

ACCREDITED LABORATORIES, INC.
PESTICIDE RETENTION TIME WINDOW

Instrument ID: HP5890-H

Confirmation Column

Date Analyzed: 12/15/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
A-BHC	7.68	7.63	7.73
Lindane	9.16	9.11	9.21
Heptachlor	9.76	9.71	9.81
Aldrin	10.69	10.64	10.74
B-BHC	12.60	12.55	12.65
D-BHC	13.29	13.24	13.34
Heptachlor Epoxide	13.60	13.53	13.67
Endosulfan I	14.58	14.51	14.65
G-Chlordane	15.01	14.94	15.08
A-Chlordane	15.27	15.20	15.34
4,4'-DDE	15.82	15.75	15.89
Dieldrin	16.10	16.03	16.17
Endrin	16.91	16.84	16.98
Endosulfan II	19.10	19.03	19.17
4,4'-DDD	19.22	19.15	19.29
4,4'-DDT	19.80	19.73	19.87
Endrin Aldehyde	20.91	20.84	20.98
Endosulfan Sulfate	22.30	22.23	22.37
Methoxychlor	22.64	22.57	22.71
Endrin Ketone	23.68	23.61	23.75

ACCREDITED LABORATORIES, INC.
RT WINDOW FOR MULTICOMPONENT ANALYTES

Instrument ID: HP5890-G

Date Analyzed: 12/15/94

COMPOUND NAME	RT OF STD	WINDOW FROM	WINDOW TO
Aroclor-1016 Peak 1	7.81	7.74	7.88
Aroclor-1016 Peak 2	8.75	8.68	8.82
Aroclor-1016 Peak 3	9.11	9.04	9.18
Aroclor-1221 Peak 1	3.41	3.34	3.48
Aroclor-1221 Peak 2	5.40	5.33	5.47
Aroclor-1221 Peak 3	5.86	5.79	5.93
Aroclor-1232 Peak 1	5.86	5.79	5.93
Aroclor-1232 Peak 2	8.74	8.67	8.81
Aroclor-1232 Peak 3	9.09	9.02	9.16
Aroclor-1242 Peak 1	8.74	8.67	8.81
Aroclor-1242 Peak 2	9.10	9.03	9.17
Aroclor-1242 Peak 3	13.13	13.06	13.20
Aroclor-1248 Peak 1	8.75	8.68	8.82
Aroclor-1248 Peak 2	11.25	11.18	11.32
Aroclor-1248 Peak 3	13.13	13.06	13.20
Aroclor-1254 Peak 1	14.87	14.80	14.94
Aroclor-1254 Peak 2	15.95	15.88	16.02
Aroclor-1254 Peak 3	18.00	17.93	18.07
Aroclor-1260 Peak 1	16.90	16.83	16.97
Aroclor-1260 Peak 2	18.00	17.93	18.07
Aroclor-1260 Peak 3	20.81	20.74	20.88

ACCREDITED LABORATORIES, INC.
PESTICIDE RETENTION TIME WINDOW

Instrument ID: HP5890-G Primary Column

Date Analyzed: 12/19/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
A-BHC	5.88	5.83	5.93
B-BHC	6.75	6.70	6.80
Lindane	6.86	6.81	6.91
D-BHC	7.71	7.66	7.76
Heptachlor	9.22	9.17	9.27
Aldrin	10.45	10.40	10.50
Heptachlor Epoxide	12.02	11.95	12.09
G-Chlordane	12.96	12.89	13.03
Endosulfan I	13.41	13.34	13.48
A-Chlordane	13.57	13.50	13.64
Dieldrin	14.46	14.39	14.53
4,4'-DDE	14.61	14.54	14.68
Endrin	15.31	15.24	15.38
Endosulfan II	15.74	15.67	15.81
4,4'-DDD	16.34	16.27	16.41
Endrin Aldehyde	16.54	16.47	16.61
Endosulfan Sulfate	17.52	17.45	17.59
4,4'-DDT	17.85	17.78	17.92
Endrin Ketone	19.35	19.28	19.42
Methoxychlor	20.39	20.32	20.46

ACCREDITED LABORATORIES, INC.
PESTICIDE RETENTION TIME WINDOW

Instrument ID: HP5890-H

Confirmation Column

Date Analyzed: 12/19/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
A-BHC	7.66	7.61	7.71
Lindane	9.14	9.09	9.19
Heptachlor	9.74	9.69	9.79
Aldrin	10.68	10.63	10.73
B-BHC	12.59	12.54	12.64
D-BHC	13.28	13.23	13.33
Heptachlor Epoxide	13.58	13.51	13.65
Endosulfan I	14.57	14.50	14.64
G-Chlordane	14.99	14.92	15.06
A-Chlordane	15.25	15.18	15.32
4,4'-DDE	15.81	15.74	15.88
Dieldrin	16.08	16.01	16.15
Endrin	16.89	16.82	16.96
Endosulfan II	19.09	19.02	19.16
4,4'-DDD	19.21	19.14	19.28
4,4'-DDT	19.78	19.71	19.85
Endrin Aldehyde	20.90	20.83	20.97
Endosulfan Sulfate	22.28	22.21	22.35
Methoxychlor	22.63	22.56	22.70
Endrin Ketone	23.66	23.59	23.73

ACCREDITED LABORATORIES, INC.
RT WINDOW FOR MULTICOMPONENT ANALYTES

Instrument ID: HP5890-G

Date Analyzed: 12/19/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
Aroclor-1016 Peak 1	7.80	7.73	7.87
Aroclor-1016 Peak 2	8.75	8.68	8.82
Aroclor-1016 Peak 3	9.10	9.03	9.17
Aroclor-1221 Peak 1	3.42	3.35	3.49
Aroclor-1221 Peak 2	5.40	5.33	5.47
Aroclor-1221 Peak 3	5.86	5.79	5.93
Aroclor-1232 Peak 1	5.85	5.78	5.92
Aroclor-1232 Peak 2	8.72	8.65	8.79
Aroclor-1232 Peak 3	9.07	9.00	9.14
Aroclor-1242 Peak 1	8.72	8.65	8.79
Aroclor-1242 Peak 2	9.08	9.01	9.15
Aroclor-1242 Peak 3	13.10	13.03	13.17
Aroclor-1248 Peak 1	8.73	8.66	8.80
Aroclor-1248 Peak 2	11.23	11.16	11.30
Aroclor-1248 Peak 3	13.11	13.04	13.18
Aroclor-1254 Peak 1	14.87	14.80	14.94
Aroclor-1254 Peak 2	15.94	15.87	16.01
Aroclor-1254 Peak 3	17.99	17.92	18.06
Aroclor-1260 Peak 1	16.90	16.83	16.97
Aroclor-1260 Peak 2	18.00	17.93	18.07
Aroclor-1260 Peak 3	20.81	20.74	20.88

ACCREDITED LABORATORIES, INC.
PESTICIDE RETENTION TIME WINDOW

Instrument ID: HP5890-G Primary Column

Date Analyzed: 12/22/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
A-BHC	5.89	5.84	5.94
B-BHC	6.77	6.72	6.82
Lindane	6.88	6.83	6.93
D-BHC	7.73	7.68	7.78
Heptachlor	9.23	9.18	9.28
Aldrin	10.46	10.41	10.51
Heptachlor Epoxide	12.04	11.97	12.11
G-Chlordane	12.98	12.91	13.05
Endosulfan I	13.42	13.35	13.49
A-Chlordane	13.59	13.52	13.66
Dieldrin	14.48	14.41	14.55
4,4'-DDE	14.63	14.56	14.70
Endrin	15.32	15.25	15.39
Endosulfan II	15.76	15.69	15.83
4,4'-DDD	16.35	16.28	16.42
Endrin Aldehyde	16.56	16.49	16.63
Endosulfan Sulfate	17.54	17.47	17.61
4,4'-DDT	17.86	17.79	17.93
Endrin Ketone	19.37	19.30	19.44
Methoxychlor	20.41	20.34	20.48

ACCREDITED LABORATORIES, INC.
PESTICIDE RETENTION TIME WINDOW

Instrument ID: HP5890-H

Confirmation Column

Date Analyzed: 12/22/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
A-BHC	7.66	7.61	7.71
Lindane	9.14	9.09	9.19
Heptachlor	9.75	9.70	9.80
Aldrin	10.68	10.63	10.73
B-BHC	12.59	12.54	12.64
D-BHC	13.27	13.22	13.32
Heptachlor Epoxide	13.58	13.51	13.65
Endosulfan I	14.57	14.50	14.64
G-Chlordane	14.99	14.92	15.06
A-Chlordane	15.25	15.18	15.32
4,4'-DDE	15.81	15.74	15.88
Dieldrin	16.08	16.01	16.15
Endrin	16.89	16.82	16.96
Endosulfan II	19.09	19.02	19.16
4,4'-DDD	19.21	19.14	19.28
4,4'-DDT	19.78	19.71	19.85
Endrin Aldehyde	20.89	20.82	20.96
Endosulfan Sulfate	22.28	22.21	22.35
Methoxychlor	22.63	22.56	22.70
Endrin Ketone	23.66	23.59	23.73

ACCREDITED LABORATORIES, INC.
RT WINDOW FOR MULTICOMPONENT ANALYTES

Instrument ID: HP5890-G

Date Analyzed: 12/22/94

COMPOUND NAME	RT OF STD	WINDOW FROM	TO
Aroclor-1016 Peak 1	7.81	7.74	7.88
Aroclor-1016 Peak 2	8.76	8.69	8.83
Aroclor-1016 Peak 3	9.12	9.05	9.19
Aroclor-1221 Peak 1	3.42	3.35	3.49
Aroclor-1221 Peak 2	5.41	5.34	5.48
Aroclor-1221 Peak 3	5.87	5.80	5.94
Aroclor-1232 Peak 1	5.87	5.80	5.94
Aroclor-1232 Peak 2	8.74	8.67	8.81
Aroclor-1232 Peak 3	9.10	9.03	9.17
Aroclor-1242 Peak 1	8.75	8.68	8.82
Aroclor-1242 Peak 2	9.10	9.03	9.17
Aroclor-1242 Peak 3	13.13	13.06	13.20
Aroclor-1248 Peak 1	8.75	8.68	8.82
Aroclor-1248 Peak 2	11.25	11.18	11.32
Aroclor-1248 Peak 3	13.13	13.06	13.20
Aroclor-1254 Peak 1	14.88	14.81	14.95
Aroclor-1254 Peak 2	15.96	15.89	16.03
Aroclor-1254 Peak 3	18.01	17.94	18.08
Aroclor-1260 Peak 1	16.92	16.85	16.99
Aroclor-1260 Peak 2	18.01	17.94	18.08
Aroclor-1260 Peak 3	20.83	20.76	20.90

ACCREDITED LABORATORIES, INC.
WATER PESTICIDE SURROGATE RECOVERY

Case Number : _____ Client Name : _____

GC Column : RTX-5 Column ID : 0.53mm

Instrument ID : HP5890-G

	LAB FILE ID	LAB SAMPLE ID	TCX %REC #	DBC %REC #	TOT OUT
01	>G9221	PBLK38	58 *	113	1
02	>G9224	9417643	61	107	0
03	>G9225	9417667	66	94	0
04	>G9226	9417667MS	62	102	0
05	>G9227	9417667MSD	64	104	0
06	>G9228	9417667MS	63	77	0
07	>G9229	9417667MSD	60	74	0
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DBC = Dibutylchlorendate	(24-154)

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

249

ACCREDITED LABORATORIES, INC.
SOIL PESTICIDE SURROGATE RECOVERY

Case Number : 9548 Client Name : RFWI

GC Column : RTX-5 Column ID : 0.53mm

Instrument ID : HP5890-G

	LAB FILE ID	LAB SAMPLE ID	TCX %REC #	DBC %REC #	TOT OUT
01	>G9176	PBLK41	63	99	0
02	>G9177	PBLK41-F	4 *	103	1
03	>G9190	9417644	76	105	0
04	>G9191	9417644MS	71	232 *	1
05	>G9192	9417644MSD	74	370 *	1
06	>G9193	9417644MS	34 *	617 *	2
07	>G9194	9417644MSD	70	196 *	1
08	>G9195	9417645	73	523 *	1
09	>G9196	9417646	48 *	215 *	2
10	>G9197	9417647	113	246 *	1
11	>G9198	9417648	115	132	0
12	>G9199	9417649	62	158 *	1
13	>G9200	9417650	115	292 *	1
14	>G9201	9417651	89	178 *	1
15	>G9290	9417644DL	74	2125 *	1
16	>G9291	9417645DL	71	1790 *	1
17	>G9292	9417646DL	100	3177 *	1
18	>G9293	9417647DL	442 *	7206 *	2
19	>G9294	9417648DL	73	827 *	1
20	>G9295	9417649DL	114	249 *	1
21	>G9296	9417650DL	176 *	898 *	2
22	>G9297	9417651DL	119	1092 *	1
23	>G9370	9417652	134	269 *	1
24	>G9371	9417652MS	116	342 *	1
25	>G9372	9417652MSD	103	285 *	1
26	>G9373	9417652MS	94	284 *	1
27	>G9374	9417652MSD	94	273 *	1
28	>G9375	9417653	62	175 *	1
29	>G9376	9417654	64	1237 *	1
30	>G9377	9417655	70	96	0

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DBC = Dibutylchlorendate	(20-150)

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

250

ACCREDITED LABORATORIES, INC.
SOIL PESTICIDE SURROGATE RECOVERY

Case Number : 9548 Client Name : RFWI

GC Column : RTX-5 Column ID : 0.53mm

Instrument ID : HP5890-G

	LAB FILE ID	LAB SAMPLE ID	TCX %REC #	DBC %REC #	TOT OUT
01	>G9378	9417656	53 *	128	1
02	>G9379	9417657	202 *	0 *	2
03	>G9382	9417658	114	130	0
04	>G9383	9417659	72	102	0
05	>G9384	9417660	80	89	0
06	>G9385	9417661	79	118	0
07	>G9386	9417661MS	79	115	0
08	>G9387	9417661MSD	87	93	0
09	>G9388	9417661MS	82	69	0
10	>G9389	9417661MSD	84	77	0
11	>G9390	9417662	79	92	0
12	>G9391	9417663	96	362 *	1
13	>G9392	9417664	85	84	0
14	>G9393	9417665	83	92	0
15	>G9394	9417666	85	88	0
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DBC = Dibutylchlorendate	(20-150)

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

251

ACCREDITED LABORATORIES, INC.
PESTICIDE ANALYTICAL SEQUENCE

Case Number : 9548 Client Name : RFWI

GC Column : RTX-5 Column ID : 0.53mm

Instrument ID : HP5890-G

THE ANALYTICAL SEQUENCE FOR BLANKS AND SAMPLES IS GIVEN BELOW:

SURROGATE RT FROM CHECK STANDARD
TCX: 4.80 DBC: 21.71

	LAB FILE ID.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DBC RT #
01	>G9176	PBLK41	12/12/94	20:23	4.80	21.71
02	>G9177	PBLK41-F	12/12/94	21:01	4.71 *	21.71
03	>G9221	PBLK38	12/15/94	19:01	4.81	21.73
04	>G9190	9417644	12/13/94	05:05	4.75	21.49 *
05	>G9191	9417644MS	12/13/94	05:42	4.76	21.84 *
06	>G9192	9417644MSD	12/13/94	06:19	4.77	21.86 *
07	>G9193	9417644MS	12/13/94	06:57	4.79	21.90 *
08	>G9194	9417644MSD	12/13/94	07:34	4.92 *	21.66
09	>G9195	9417645	12/13/94	08:11	4.78	21.89 *
10	>G9196	9417646	12/13/94	08:49	4.86 *	21.84 *
11	>G9197	9417647	12/13/94	09:26	4.85	21.60 *
12	>G9198	9417648	12/13/94	10:03	4.76	21.82 *
13	>G9199	9417649	12/13/94	10:42	4.85 *	21.88 *
14	>G9200	9417650	12/13/94	11:19	4.87 *	21.90 *
15	>G9201	9417651	12/13/94	11:57	4.87 *	21.90 *
16	>G9224	9417643	12/15/94	20:52	4.81	21.73
17	>G9225	9417667	12/15/94	21:29	4.81	21.73
18	>G9226	9417667MS	12/15/94	22:06	4.81	21.73
19	>G9227	9417667MSD	12/15/94	22:44	4.81	21.74
20	>G9228	9417667MS	12/15/94	23:21	4.81	21.73
21	>G9229	9417667MSD	12/15/94	23:58	4.81	21.73
22	>G9290	9417644DL	12/20/94	02:53	4.81	21.62
23	>G9291	9417645DL	12/20/94	03:30	4.80	21.62
24	>G9292	9417646DL	12/20/94	04:07	4.80	21.62
25	>G9293	9417647DL	12/20/94	04:44	4.72 *	21.62
26	>G9294	9417648DL	12/20/94	05:21	4.72 *	21.62
27	>G9295	9417649DL	12/20/94	05:58	4.80	21.62
28	>G9296	9417650DL	12/20/94	06:36	4.81	21.61
29	>G9297	9417651DL	12/20/94	07:13	4.80	21.62
30	>G9370	9417652	12/22/94	23:58	4.78	21.68

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DBC = Dibutylchlorendate (± 0.10 MINUTES)

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

252

ACCREDITED LABORATORIES, INC.
PESTICIDE ANALYTICAL SEQUENCE

Case Number : 9548 Client Name : RFWI

GC Column : RTX-5 Column ID : 0.53mm

Instrument ID : HP5890-G

THE ANALYTICAL SEQUENCE FOR BLANKS AND SAMPLES IS GIVEN BELOW:

SURROGATE RT FROM CHECK STANDARD
TCX: 4.80 DBC: 21.71

	LAB FILE ID.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DBC RT #
01	>G9371	9417652MS	12/23/94	00:35	4.78	21.67
02	>G9372	9417652MSD	12/23/94	01:12	4.78	21.67
03	>G9373	9417652MS	12/23/94	01:49	4.78	21.67
04	>G9374	9417652MSD	12/23/94	02:27	4.78	21.67
05	>G9375	9417653	12/23/94	03:04	4.77	21.66
06	>G9376	9417654	12/23/94	03:41	4.78	21.78
07	>G9377	9417655	12/23/94	04:19	4.78	21.70
08	>G9378	9417656	12/23/94	04:56	4.78	21.69
09	>G9379	9417657	12/23/94	05:33	4.79	0.00 *
10	>G9382	9417658	12/23/94	07:24	4.77	21.68
11	>G9383	9417659	12/23/94	08:02	4.78	21.68
12	>G9384	9417660	12/23/94	08:40	4.78	21.69
13	>G9385	9417661	12/23/94	09:18	4.78	21.69
14	>G9386	9417661MS	12/23/94	09:55	4.78	21.69
15	>G9387	9417661MSD	12/23/94	10:32	4.78	21.69
16	>G9388	9417661MS	12/23/94	11:11	4.78	21.69
17	>G9389	9417661MSD	12/23/94	11:50	4.78	21.68
18	>G9390	9417662	12/23/94	12:28	4.78	21.68
19	>G9391	9417663	12/23/94	13:05	4.78	21.65
20	>G9392	9417664	12/23/94	13:43	4.78	21.68
21	>G9393	9417665	12/23/94	14:20	4.78	21.68
22	>G9394	9417666	12/23/94	14:58	4.77	21.68
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS
TCX = Tetrachloro-m-xylene (± 0.05 MINUTES)
DBC = Dibutylchlorendate (± 0.10 MINUTES)

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

253

ACCREDITED LABORATORIES, INC.
PESTICIDE DDT / ENDRIN BREAKDOWN SUMMARY

Lab Sample :	DDT/ENDRIN	Date Analyzed :	12/12/94
Data File :	>G9172	Time Analyzed :	17:54
GC Column :	RTX-5	Column ID :	0.53mm
Instrument ID :	HP5890-G		

4,4'-DDT % breakdown : 0.0

Endrin % breakdown : 0.0

Combined % breakdown : 0.0

254

ACCREDITED LABORATORIES, INC.
PESTICIDE DDT / ENDRIN BREAKDOWN SUMMARY

Lab Sample :	DDT/ENDRIN	Date Analyzed :	12/15/94
Data File :	>G9209	Time Analyzed :	11:02
GC Column :	RTX-5	Column ID :	0.53mm
Instrument ID :	HP5890-G		

4,4'-DDT % breakdown : 0.0

Endrin % breakdown : 0.0

Combined % breakdown : 0.0

255

ACCREDITED LABORATORIES, INC.
PESTICIDE DDT / ENDRIN BREAKDOWN SUMMARY

Lab Sample :	DDT/ENDRIN	Date Analyzed :	12/19/94
Data File :	>G9277	Time Analyzed :	18:49
GC Column :	RTX-5	Column ID :	0.53mm
Instrument ID :	HP5890-G		

4,4'-DDT % breakdown : 1.9

Endrin % breakdown : 0.0

Combined % breakdown : 1.9

256

ACCREDITED LABORATORIES, INC.
PESTICIDE DDT / ENDRIN BREAKDOWN SUMMARY

Lab Sample :	DDT/ENDRIN	Date Analyzed :	12/22/94
Data File :	>G9355	Time Analyzed :	11:48
GC Column :	RTX-5	Column ID :	0.53mm
Instrument ID :	HP5890-G		

4,4'-DDT % breakdown : 7.0

Endrin % breakdown : 0.0

Combined % breakdown : 7.0

257

ACCREDITED LABORATORIES, INC.
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Sample No.: 9417667

Sample Data File: >G9225

Date Extracted: 12/06/94

MS Data file: >G9226

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC
Lindane	.250	0.00	.259	104	56-123
Heptachlor	.250	0.00	.222	89	40-131
Aldrin	.250	0.00	.232	93	40-120
Dieldrin	.500	.006	.766	152 *	52-126
Endrin	.500	0.00	.832	166 *	56-121
4,4'-DDT	.500	0.00	.731	146 *	38-127

MSD Data File: >G9227

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
Lindane	.250	.267	107	3	15	56-123
Heptachlor	.250	.230	92	4	20	40-131
Aldrin	.250	.237	95	2	22	40-120
Dieldrin	.500	.760	151 *	1	18	52-126
Endrin	.500	.817	163 *	2	21	56-121
4,4'-DDT	.500	.750	150 *	3	27	38-127

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: 6 out of 12 outside limits

COMMENTS: _____

258

ACCREDITED LABORATORIES, INC.
WATER PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Sample Number: 9417667

Sample Data File: >G9225

Date Extracted: 12/06/94

MS Data File: >G9228

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC ** LIMITS REC
Aroclor-1260	10.0	0.000	12.5	125	40-140

MSD Data File: >G9229

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS ** RPD	REC
Aroclor-1260	10.0	12.1	121	3	25	40-140

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

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

** Values were generated within ALI for advisory purposes only

COMMENTS: _____

259

ACCREDITED LABORATORIES, INC.
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Sample No.: 9417644

Sample Data File: >G9190

Date Extracted: 12/09/94

MS Data file: >G9191

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
Lindane	16.7	0.00	17.0	102	46-127
Heptachlor	16.7	0.00	22.7	136 *	35-130
Aldrin	16.7	0.00	37.6	225 *	34-132
Dieldrin	33.3	0.00	424	1273 *	31-134
Endrin	33.3	0.00	558	1676 *	42-139
4,4'-DDT	33.3	0.00	314	943 *	23-134

MSD Data File: >G9192

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Lindane	16.7	18.2	109	7	50	46-127
Heptachlor	16.7	46.4	278 *	69 *	31	35-130
Aldrin	16.7	32.4	194 *	15	43	34-132
Dieldrin	33.3	495	*** *	15	38	31-134
Endrin	33.3	705	*** *	23	45	42-139
4,4'-DDT	33.3	245	736 *	25	50	23-134

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: 10 out of 12 outside limits

COMMENTS: Note also paired gross recovery for surrogates requiring qualification –

260

ACCREDITED LABORATORIES, INC.
SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Sample Number: 9417644

Sample Data File: >G9190

Date Extracted: 12/09/94

MS Data File: >G9193

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC ** LIMITS REC
Aroclor-1260	333	0.000	10113	3037*	40-140

MSD Data File: >G9194

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS ** RPD	QC LIMITS ** REC
Aroclor-1260	333	8024	2410*	23	25	40-140

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

RPD: 0 out of 1 outside limits
Spike Recovery: 2 out of 2 outside limits

** Values were generated within ALI for advisory purposes only

COMMENTS: the high recovery indicates a problem regarding spiking?

261

ACCREDITED LABORATORIES, INC.
SLUDGE PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Sample No.: 9417652

Sample Data File: >G9370

Date Extracted: 12/09/94

MS Data file: >G9371

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
Lindane	167	0.00	190	114	46-127
Heptachlor	167	0.00	188	113	35-130
Aldrin	167	0.00	134	80	34-132
Dieldrin	333	0.00	422	127	31-134
Endrin	333	0.00	446	134	42-139
4,4'-DDT	333	0.00	788	237 *	23-134

MSD Data File: >G9372

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Lindane	167	163	98	15	50	46-127
Heptachlor	167	166	99	12	31	35-130
Aldrin	167	114	68	16	43	34-132
Dieldrin	333	376	113	12	38	31-134
Endrin	333	412	124	8	45	42-139
4,4'-DDT	333	717	215 *	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: 2 out of 12 outside limits

COMMENTS:

262

ACCREDITED LABORATORIES, INC.
SLUDGE PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Sample Number: 9417652

Sample Data File: >G9370

Date Extracted: 12/09/94

MS Data File: >G9373

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC ** LIMITS REC
Aroclor-1260	3333	0.000	4540	136	40-140

MSD Data File: >G9374

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS ** RPD	QC LIMITS ** REC
Aroclor-1260	3333	4630	139	2	25	40-140

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

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

** Values were generated within ALI for advisory purposes only

COMMENTS: _____

263

ACCREDITED LABORATORIES, INC.
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Sample No.: 9417661

Sample Data File: >G9385

Date Extracted: 12/09/94

MS Data file: >G9386

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
Lindane	16.7	0.00	11.4	68	46-127
Heptachlor	16.7	0.00	10.5	63	35-130
Aldrin	16.7	0.00	9.71	58	34-132
Dieldrin	33.3	0.00	39.5	119	31-134
Endrin	33.3	0.00	33.6	101	42-139
4,4'-DDT	33.3	0.00	25.2	76	23-134

MSD Data File: >G9387

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Lindane	16.7	11.6	69	2	50	46-127
Heptachlor	16.7	10.9	65	4	31	35-130
Aldrin	16.7	10.2	61	5	43	34-132
Dieldrin	33.3	39.5	119	0	38	31-134
Endrin	33.3	36.9	111	9	45	42-139
4,4'-DDT	33.3	31.4	94	22	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:

264

ACCREDITED LABORATORIES, INC.
SOIL PCB MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Matrix Spike Sample Number: 9417661

Sample Data File: >G9385

Date Extracted: 12/09/94

MS Data File: >G9388

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC ** LIMITS REC
Aroclor-1260	333	0.000	343	103	40-140

MSD Data File: >G9389

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS ** RPD	QC LIMITS ** REC
Aroclor-1260	333	346	104	1	25	40-140

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

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

** Values were generated within ALI for advisory purposes only

COMMENTS: _____

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Aqueous
SAMPLE NUMBER	PBLK38	DILUTION FACTOR	1
DATA FILE	>G9221	DATE EXTRACTED	12/06/94
CLIENT NAME		DATE ANALYZED	12/15/94
FIELD ID		ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/L	MDL
12674112	Aroclor-1016	U	.890
11104282	Aroclor-1221	U	.600
11141165	Aroclor-1232	U	.420
53469219	Aroclor-1242	U	.480
12672296	Aroclor-1248	U	.410
11097691	Aroclor-1254	U	.340
11096825	Aroclor-1260	U	.310

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER		MATRIX	Aqueous
SAMPLE NUMBER	PBLK38	DILUTION FACTOR	1
DATA FILE	>G9221	DATE EXTRACTED	12/06/94
CLIENT NAME		DATE ANALYZED	12/15/94
FIELD ID		ANALYZED BY	DANIEL

COMPOUND	UG/L	MDL
A-BHC	U	.028
B-BHC	U	.051
Lindane	U	.048
D-BHC	U	.024
Heptachlor	U	.027
Aldrin	U	.024
Heptachlor Epoxide	U	.033
Endosulfan I	U	.026
A-Chlordane	U	.029
G-Chlordane	U	.028
Dieldrin	U	.013
4,4'-DDE	U	.028
Endrin	U	.005
Endosulfan II	U	.019
4,4'-DDD	U	.022
Endrin Aldehyde	U	.030
Endosulfan Sulfate	U	.014
4,4'-DDT	U	.017
Toxaphene	U	1.00

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	PBLK41-F	DILUTION FACTOR	1
DATA FILE	>G9177	DATE EXTRACTED	12/09/94
CLIENT NAME		DATE ANALYZED	12/12/94
FIELD ID		ANALYZED BY	DANIEL

COMPOUND	MG/KG	MDL
Lindane	U	.002
Heptachlor	U	.002
Aldrin	U	.002
A-Chlordane	U	.002
G-Chlordane	U	.002
Dieldrin	U	.003
4,4'-DDT	U	.003
Toxaphene	U	.033

Percent Solid of 100. is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	PBLK41-F	DILUTION FACTOR	1
DATA FILE	>G9177	DATE EXTRACTED	12/09/94
CLIENT NAME		DATE ANALYZED	12/12/94
FIELD ID		ANALYZED BY	DANIEL

CAS#	COMPOUND	MG/KG	MDL
12674112	Aroclor-1016	U	.033
11104282	Aroclor-1221	U	.067
11141165	Aroclor-1232	U	.033
53469219	Aroclor-1242	U	.033
12672296	Aroclor-1248	U	.033
11097691	Aroclor-1254	U	.033
11096825	Aroclor-1260	U	.033

Percent Solid of 100. is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PESTICIDE ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	PBLK41	DILUTION FACTOR	1
DATA FILE	>G9176	DATE EXTRACTED	12/09/94
CLIENT NAME		DATE ANALYZED	12/12/94
FIELD ID		ANALYZED BY	DANIEL

COMPOUND	UG/KG	MDL
A-BHC	U	1.67
B-BHC	U	1.67
Lindane	U	1.67
D-BHC	U	1.67
Heptachlor	U	1.67
Aldrin	U	1.67
Heptachlor Epoxide	U	1.67
Endosulfan I	U	1.67
A-Chlordane	U	1.67
G-Chlordane	U	1.67
Dieldrin	U	3.33
4,4'-DDE	U	3.33
Endrin	U	3.33
Endosulfan II	U	3.33
4,4'-DDD	U	3.33
Endrin Aldehyde	U	3.33
Endosulfan Sulfate	U	3.33
4,4'-DDT	U	3.33
Endrin Ketone	U	3.33
Methoxychlor	U	16.7
Toxaphene	U	33.3

Percent Solid of 100. is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

270

ACCREDITED LABORATORIES, INC
PCB ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	PBLK41	DILUTION FACTOR	1
DATA FILE	>G9176	DATE EXTRACTED	12/09/94
CLIENT NAME		DATE ANALYZED	12/12/94
FIELD ID		ANALYZED BY	DANIEL

CAS#	COMPOUND	UG/KG	MDL
12674112	Aroclor-1016	U	33.3
11104282	Aroclor-1221	U	66.7
11141165	Aroclor-1232	U	33.3
53469219	Aroclor-1242	U	33.3
12672296	Aroclor-1248	U	33.3
11097691	Aroclor-1254	U	33.3
11096825	Aroclor-1260	U	33.3

Percent Solid of 100. is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.