



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 663

663

SEVERN

TRENT

SERVICES

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238-1330

Tel 412 820 8380
Fax: 412 820 2080
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. UXB 7512-060

Dunn Field, Def Depot Memphis

Lot #: C0F300207

Frank Johnson

UXB International

SEVERN TRENT LABORATORIES, INC.



Dave Dunlap
Project Manager

July 17, 2000

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C0F300207

Sample Receiving:

STL Pittsburgh received one sample on June 30, 2000 in good condition and within the proper temperature range.

Volatiles:

Due to the concentration of chloroform detected, DF/S1/0181/IDW/001 was analyzed at a dilution.

Semivolatiles:

Due to the concentration of bis (2-ethylhexyl) phthalate detected, DF/S1/0181/IDW/001 was analyzed at a dilution.

Pesticides:

The form 8D for the DB608 column does not take in to account for the retention times being updated from the continuing calibration standards analyzed on July 3, 2000 at 10:11 and 10:37. The retention time values flagged as being outside of the retention time window are incorrect.

PCBs:

The recovery of TCMX surrogate is outside control limits for DF/S1/0181/IDW/001 however the recovery of DCB is within control limits.

Herbicides:

There were no problems associated with the analyses.

Metals:

Samples DF/S1/0181/IDW/001 and its matrix spikes were over the instrument's linear range for sodium and required dilutions.

Sample DF/S1/0181/IDW/001 was redigested for iron and chromium due to the recovery of the laboratory control sample. Only the redigested results were reported.

For the matrix spike and matrix spike duplicate, sodium recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

General Chemistry:

The recovery for the cyanide was outside control limits for the matrix spikes.

METHODS SUMMARY

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COF300207

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
pH Aqueous	SW846 9040	SW846 9040
Chlorinated Herbicides by GC	SW846 8151A	SW846 8151A
Cyanide, Total	SW846 9012A	SW846 9012A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
Organochlorine Pesticides	SW846 8081A	SW846 3510C
Pensky-Martens Method for Determining Ignitability	SW846 1010	SW846 1010
PCBs by SW-846 8082	SW846 8082	SW846 3510C
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3520C
Sulfide	MCAWW 376.1	MCAWW 376.1
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

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SAMPLE SUMMARY

COF300207

WO #	SAMPLE#	CLIENT	SAMPLE ID	DATE	TIME
DFKQ3	001	DF/S1/0181/IDW/001		06/29/00	11:00

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Chain of Custody Record

Quanterra, Inc. - Pittsburgh PA Lab
450 William Pitt Way
Pittsburgh PA 15238



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QUA-4124

Client

UXB International

Address

Residence Inn, Rm 613, 6141 Old Forge Rd

City State Zip Code

Memphis TN 38119

Project Name

Dana Field

Contract/Purchase Order/Quote No

Project Manager

Jim Thosen

Telephone Number (Area Code)/Fax Number

(901) 745-4999 / 4280

Site Contact

Chris Rose

Carrier/Weight Number

Date

6/29/00

Lab Number

Page 1 of 1

Chain Of Custody Number

67543

Analysis

Sample ID No and Description	Date	Time	Sample Type	Total Volume	Containers		Preservative	Condition on Receipt										
					Type	No.												
DE/SL/0181/IDV/001	6/29/00	11:00	WATER	40ml	Medical	2	HCT											
				1 liter	Glass	2	None											
				1 liter	Glass	2	None											
				1 liter	Glass	2	None											
				500ml	Plastic	1	HND3											
				500ml	Plastic	1	NaOH											
				500ml	Plastic	1	MeOH/2Ac											
				250ml	Plastic	1	None											
				802	Glass	1	None											

Special Instructions

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Turn Around Time Required

☒ Normal ☐ Rush

1 Relinquished By

Chris Rose

2 Relinquished By

3 Relinquished By

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Project Specific (Specify)

1. Received By

2. Received By

3. Received By

Date

Date

Date

Time

Time

Time

Time

Time

Comments

DISTRIBUTION: WHITE - Stays with Sample, CANARY - Returned to Client with Report, PINK - Field Copy

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(Signature)

STL Pittsburgh Lot Number: COF300207

Yes	No

1. Were custody seals on the outside of the cooler? _____
If YES, how many and where? Quantity ____ Location _____
Were signatures and date correct? _____
2. Were custody papers included inside the cooler? _____
3. Were custody papers properly filled out (ink, signed, match labels)? _____
4. Did you sign the custody papers in the appropriate place? _____
5. Was shippers packing slip attached to this form? _____
6. Were packing materials used? _____
If YES, what type? Bubble Bag & Duck Tape
7. Were the samples chilled? (Record temperatures on reverse side.) _____
8. Were the samples appropriately preserved? _____
9. Were all bottles sealed in separate plastic bags? _____
10. Did all bottles arrive in good condition (unbroken)? _____
11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____
12. Did all bottle labels and/or tags agree with custody papers? _____
13. Were correct bottles used for tests indicated? _____
14. Were all VOA vials checked for the presence of air bubbles? _____
15. Was a sufficient amount of sample sent in each bottle? _____
16. Samples received by: FEDEX UPS CLIENT DROP-OFF OTHER AIRBORNE

Explain any discrepancies: _____

Level 2 Review _____
Was contacted on _____ by _____ to resolve discrepancies.

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[illegible]

Comments: _____

[illegible]

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FedEx® USA AirMail

FedEx Tracking Number

821738766966

1 From 1 1

Date 6/27/00

Sender's Name Chris Rose Phone 901 685-4595

Company URS International

Address Reserve Inn #613, Dixie Plar Pkce

City Memphis State TN ZIP 38119

2 Your Internal Billing Reference

3 To Recipient's Name Rusty Vincie Phone 412 820-2091

Company Seaton Trail

Address 450 W. 11th St P.O. Box 1

We cannot deliver to P.O. boxes or P.O. ZIP codes.

City Pittsburg State PA ZIP 15338

To: WALD at FedEx location, print FedEx address here.

City Pittsburg State PA ZIP 15338

821738766966

0200

4a Express Package Service

4b Express Freight Service

5 Packaging

6 Special Handling

7 Payment Bill to

8 Release Signature

9 Total Packages

10 Total Declared Value

11 Total Charges

12 Credit Card Auth.

13 Declaration

14 Declaration

15 Declaration

16 Declaration

17 Declaration

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SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

June 29, 2000

Dunn Field, Memphis Defense Depot

Results for CWM Soil Sample Analysis

Analyst: Wyatt McNutt

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard	Lewisite
DF/S1/01		ND	ND	N/A	ND	ND
81/IDW/0						
01						
-DF-						

ND= Not detected at or above the method detection limit (MDL)

MDL= 200 ppb

BDL= Below detection limit, results > 100ppb, but < 200 ppb

MS= matrix spike

MSD= matrix spike duplicate

DUP= duplicate

DATA SUMMARY PACKAGE

GC/MS VOLATILE SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFKQ3101

Date Extracted: 07/03/00

Dilution factor: 30

Date Analyzed: 07/03/00

QC Batch: 0185097

Client Sample Id: DF/S1/0181/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
67-64-1	Acetone	600	U
71-43-2	Benzene	150	U
75-27-4	Bromodichloromethane	150	U
75-25-2	Bromoform	150	U
74-83-9	Bromomethane	300	U
78-93-3	2-Butanone	600	U
75-15-0	Carbon disulfide	150	U
56-23-5	Carbon tetrachloride	150	U
108-90-7	Chlorobenzene	150	U
124-48-1	Dibromochloromethane	150	U
75-00-3	Chloroethane	300	U
67-66-3	Chloroform	3300	
74-87-3	Chloromethane	300	U
75-34-3	1,1-Dichloroethane	150	U
107-06-2	1,2-Dichloroethane	150	U
75-35-4	1,1-Dichloroethene	150	U
540-59-0	1,2-Dichloroethene (total)	150	U
78-87-5	1,2-Dichloropropane	150	U
10061-01-5	cis-1,3-Dichloropropene	150	U
10061-02-6	trans-1,3-Dichloropropene	150	U
100-41-4	Ethylbenzene	150	U
591-78-6	2-Hexanone	600	U
75-09-2	Methylene chloride	150	U
108-10-1	4-Methyl-2-pentanone	600	U
100-42-5	Styrene	150	U
79-34-5	1,1,2,2-Tetrachloroethane	150	U
127-18-4	Tetrachloroethene	150	U
108-88-3	Toluene	150	U

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFKQ3101

Date Extracted: 07/03/00

Dilution factor: 30

Date Analyzed: 07/03/00

QC Batch: 0185097

Client Sample Id: DF/S1/0181/IDW/001

CONCENTRATION UNITS:				
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
71-55-6	1,1,1-Trichloroethane	150		U
79-00-5	1,1,2-Trichloroethane	150		U
79-01-6	Trichloroethene	150		U
75-01-4	Vinyl chloride	300		U
1330-20-7	Xylenes (total)	150		U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G030000 097

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFNA0102

Date Extracted: 07/03/00

Dilution factor: 1

Date Analyzed: 07/03/00

QC Batch: 0185097

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-43-2	Benzene	55.0	Q
108-90-7	Chlorobenzene	52.8	
75-35-4	1,1-Dichloroethene	50.7	
108-88-3	Toluene	54.0	
79-01-6	Trichloroethene	54.3	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0F300207

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	DF/S1/0181/IDW/001	110	102	97	105	00
02	INTRA-LAB QC	111	100	95	106	00
03	METHOD BLK. DFNA0101	106	100	92	103	00
04	LCS DFNA0102	104	99	102	103	00
05	LAB MS/MSD D	103	101	100	104	00
06	LAB MS/MSD S	107	103	102	107	00

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
 SRG02 = Toluene-d8
 SRG03 = 4-Bromofluorobenzene
 SRG04 = Dibromofluoromethane

QC LIMITS

(77-120)
 (78-111)
 (80-114)
 (78-110)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G030000

WO #: DFNA0102

BATCH: 0185097

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	50.7	101	65- 119	
Trichloroethene	50.0	54.3	109	80- 122	
Benzene	50.0	55.0	110	79- 116	
Toluene	50.0	54.0	108	76- 119	
Chlorobenzene	50.0	52.8	106	81- 115	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0F300252

WO #: DFL6E128

BATCH: 0185097

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	50.0	ND	20.3	41*	57 - 138	a
Trichloroethene	50.0	ND	49.6	99	58 - 141	
Benzene	50.0	ND	49.5	99	73 - 123	
Toluene	50.0	ND	50.0	100	67 - 129	
Chlorobenzene	50.0	ND	47.9	96	70 - 122	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

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

RPD: 0 out of 0 outside limitsSpike Recovery: 1 out of 5 outside limits

COMMENTS:

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0F300252

WO #: DFL6E129

BATCH: 0185097

COMPOUND	SPIKE	MSD	MSD	QC LIMITS				QUAL
	ADDED (ug/L)	CONCENT. (ug/L)	% REC	% RPD	RPD	REC		
1,1-Dichloroethene	50.0	38.4	77	62	*	20	57 - 138	p
Trichloroethene	50.0	52.1	104	4.8		20	58 - 141	
Benzene	50.0	51.7	103	4.2		20	73 - 123	
Toluene	50.0	51.6	103	3.2		20	67 - 129	
Chlorobenzene	50.0	49.6	99	3.3		20	70 - 122	

NOTES (S) :

p Relative percent difference (RPD) is outside stated control limits.

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

* Values outside of QC limits

RPD: 1 out of 5 outside limitsSpike Recovery: 0 out of 5 outside limits

COMMENTS:

BLANK WORKORDER NO.

SW846 8260B METHOD BLANK SUMMARY

DFNA0101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: WB40704.D

Lot Number: C0F300207

Date Analyzed: 07/03/00

Time Analyzed: 06:41

Matrix: WATER

Date Extracted: 07/03/00

GC Column: RTX-624 ID: .18

Extraction Method: 5030

Instrument ID: HP4

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DF/S1/0181/IDW/001	DFKQ3101	4070315.D	07/03/00	12:24
02	INTRA-LAB QC	DFL6E101	4070304.D	07/03/00	08:09
03	LAB MS/MSD	DFL6E128 S	4070307.D	07/03/00	09:16
04	LAB MS/MSD	DFL6E129 D	4070308.D	07/03/00	09:39
05	CHECK SAMPLE	DFNA0102 C	4070309.D	07/03/00	10:04
06					
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30					

COMMENTS:

UXB INTERNATIONAL
 METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

 Matrix: (soil/water) WATER Lab Sample ID: COG030000 097
 Method: SW846 8260B
 Volatile Organics, GC/MS (8260B)

 Sample WT/Vol: 5 / mL Date Received: 06/30/00
 Work Order: DFNA0101 Date Extracted: 07/03/00
 Dilution factor: 1 Date Analyzed: 07/03/00

QC Batch: 0185097

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	20	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	20	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
591-78-6	2-Hexanone	20	U
75-09-2	Methylene chloride	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG030000 097

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFNA0101

Date Extracted: 07/03/00

Dilution factor: 1

Date Analyzed: 07/03/00

QC Batch: 0185097

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
71-55-6	1,1,1-Trichloroethane	5.0		U
79-00-5	1,1,2-Trichloroethane	5.0		U
79-01-6	Trichloroethene	5.0		U
75-01-4	Vinyl chloride	10		U
1330-20-7	Xylenes (total)	5.0		U

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID (Standard): CC40703

Date Analyzed: 07/03/00

Instrument ID: HP4

Time Analyzed: 0555

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)		IS2 (DCB)		IS3	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	114381	10.13	205384	12.46	457049	7.00
UPPER LIMIT	228762	10.33	410768	12.66	914098	7.20
LOWER LIMIT	57191	9.93	102692	12.26	228525	6.80
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	114492	10.12	178635	12.46	522897	7.01
02 INTRA-LAB CH	136723	10.13	234487	12.45	584835	7.00
03 DF/SI/0181/I	135811	10.12	204899	12.46	607811	7.01
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22						

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = + 0.20 minutes of internal standard RT
 RT LOWER LIMIT = - 0.20 minutes of internal standard RT

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

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GC/MS SEMIVOLATILE SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3102

Date Extracted: 07/01/00

Dilution factor: 4

Date Analyzed: 07/05/00

QC Batch: 0185092

Client Sample Id: DF/S1/0181/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
110-86-1	Pyridine	80	U
83-32-9	Acenaphthene	40	U
208-96-8	Acenaphthylene	40	U
120-12-7	Anthracene	40	U
56-55-3	Benzo(a)anthracene	40	U
50-32-8	Benzo(a)pyrene	40	U
205-99-2	Benzo(b)fluoranthene	40	U
207-08-9	Benzo(k)fluoranthene	40	U
191-24-2	Benzo(ghi)perylene	40	U
111-91-1	bis(2-Chloroethoxy)methane	40	U
111-44-4	bis(2-Chloroethyl) ether	40	U
117-81-7	bis(2-Ethylhexyl) phthalate	130	
101-55-3	4-Bromophenyl phenyl ether	40	U
85-68-7	Butyl benzyl phthalate	40	U
86-74-8	Carbazole	40	U
106-47-8	4-Chloroaniline	40	U
59-50-7	4-Chloro-3-methylphenol	40	U
91-58-7	2-Chloronaphthalene	40	U
95-57-8	2-Chlorophenol	40	U
7005-72-3	4-Chlorophenyl phenyl ether	40	U
218-01-9	Chrysene	40	U
53-70-3	Dibenz(a,h)anthracene	40	U
132-64-9	Dibenzofuran	40	U
95-50-1	1,2-Dichlorobenzene	40	U
541-73-1	1,3-Dichlorobenzene	40	U
106-46-7	1,4-Dichlorobenzene	40	U
91-94-1	3,3'-Dichlorobenzidine	200	U
120-83-2	2,4-Dichlorophenol	40	U

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3102

Date Extracted: 07/01/00

Dilution factor: 4

Date Analyzed: 07/05/00

QC Batch: 0185092

Client Sample Id: DF/S1/0181/IDW/001

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	40	U
105-67-9	2,4-Dimethylphenol	40	U
131-11-3	Dimethyl phthalate	40	U
84-74-2	Di-n-butyl phthalate	40	U
117-84-0	Di-n-octyl phthalate	40	U
51-28-5	2,4-Dinitrophenol	200	U
534-52-1	4,6-Dinitro-2-methylphenol	200	U
121-14-2	2,4-Dinitrotoluene	40	U
606-20-2	2,6-Dinitrotoluene	40	U
206-44-0	Fluoranthene	40	U
86-73-7	Fluorene	40	U
118-74-1	Hexachlorobenzene	40	U
87-68-3	Hexachlorobutadiene	40	U
77-47-4	Hexachlorocyclopentadiene	200	U
67-72-1	Hexachloroethane	40	U
193-39-5	Indeno(1,2,3-cd)pyrene	40	U
78-59-1	Isophorone	40	U
91-57-6	2-Methylnaphthalene	40	U
95-48-7	2-Methylphenol	40	U
106-44-5	4-Methylphenol	40	U
91-20-3	Naphthalene	40	U
88-74-4	2-Nitroaniline	200	U
99-09-2	3-Nitroaniline	200	U
100-01-6	4-Nitroaniline	200	U
98-95-3	Nitrobenzene	40	U
88-75-5	2-Nitrophenol	40	U
100-02-7	4-Nitrophenol	200	U
621-64-7	N-Nitrosodi-n-propylamine	40	U

FORM I

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3102

Date Extracted: 07/01/00

Dilution factor: 4

Date Analyzed: 07/05/00

QC Batch: 0185092

Client Sample Id: DF/S1/0181/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
86-30-6	N-Nitrosodiphenylamine	40	U
108-60-1	2,2'-oxybis(1-Chloropropane)	40	U
87-86-5	Pentachlorophenol	200	U
85-01-8	Phenanthrene	40	U
108-95-2	Phenol	40	U
129-00-0	Pyrene	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
95-95-4	2,4,5-Trichlorophenol	40	U
88-06-2	2,4,6-Trichlorophenol	40	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER Lab Sample ID: C0G030000 092
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 06/30/00
Work Order: DFN9J102 Date Extracted: 07/01/00
Dilution factor: 1 Date Analyzed: 07/03/00

QC Batch: 0185092

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	40.1	
59-50-7	4-Chloro-3-methylphenol	59.4	
95-57-8	2-Chlorophenol	57.2	
106-46-7	1,4-Dichlorobenzene	36.7	
121-14-2	2,4-Dinitrotoluene	37.7	
100-02-7	4-Nitrophenol	51.6	
621-64-7	N-Nitrosodi-n-propylamine	39.6	
87-86-5	Pentachlorophenol	59.9	
108-95-2	Phenol	52.4	
129-00-0	Pyrene	38.7	
120-82-1	1,2,4-Trichlorobenzene	35.2	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G030000 092

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN9J103

Date Extracted: 07/01/00

Dilution factor: 1

Date Analyzed: 07/03/00

QC Batch: 0185092

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	41.6	
59-50-7	4-Chloro-3-methylphenol	58.5	
95-57-8	2-Chlorophenol	56.8	
106-46-7	1,4-Dichlorobenzene	36.6	
121-14-2	2,4-Dinitrotoluene	38.6	
100-02-7	4-Nitrophenol	52.8	
621-64-7	N-Nitrosodi-n-propylamine	38.2	
87-86-5	Pentachlorophenol	59.5	
108-95-2	Phenol	53.4	
129-00-0	Pyrene	38.7	
120-82-1	1,2,4-Trichlorobenzene	36.1	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG: 1.1.1

Lot #: C0F300207

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/S1/0181/IDW/001	63	79	71	85	59	63	00
02	METHOD BLK. DFN9J101	64	70	67	85	60	81	00
03	LCS DFN9J102	77	76	72	86	54	85	00
04	LCSD DFN9J103	78	80	72	88	55	87	00

SURROGATES

SRG01 = Phenol-d5
 SRG02 = 2-Fluorobiphenyl
 SRG03 = Nitrobenzene-d5
 SRG04 = Terphenyl-d14
 SRG05 = 2-Fluorophenol
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(10-113)
 (30-110)
 (32-112)
 (10-144)
 (13-110)
 (21-122)

- # Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G030000

WO #: DFN9J102

BATCH: 0185092

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Phenol	75.0	52.4	70	10- 131	
2-Chlorophenol	75.0	57.2	76	19- 124	
1,4-Dichlorobenzene	50.0	36.7	73	28- 110	
N-Nitrosodi-n-propylamine	50.0	39.6	79	30- 115	
1,2,4-Trichlorobenzene	50.0	35.2	70	31- 110	
4-Chloro-3-methylphenol	75.0	59.4	79	29- 124	
Acenaphthene	50.0	40.1	80	39- 118	
4-Nitrophenol	75.0	51.6	69	19- 144	
2,4-Dinitrotoluene	50.0	37.7	75	47- 131	
Pentachlorophenol	75.0	59.9	80	10- 140	
Pyrene	50.0	38.7	77	46- 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G030000

WO #: DFN9J103

BATCH: 0185092

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Phenol	75.0	53.4	71	10 - 131	
2-Chlorophenol	75.0	56.8	76	19 - 124	
1,4-Dichlorobenzene	50.0	36.6	73	28 - 110	
N-Nitrosodi-n-propylamine	50.0	38.2	76	30 - 115	
1,2,4-Trichlorobenzene	50.0	36.1	72	31 - 110	
4-Chloro-3-methylphenol	75.0	58.5	78	29 - 124	
Acenaphthene	50.0	41.6	83	39 - 118	
4-Nitrophenol	75.0	52.8	70	19 - 144	
2,4-Dinitrotoluene	50.0	38.6	77	47 - 131	
Pentachlorophenol	75.0	59.5	79	10 - 140	
Pyrene	50.0	38.7	77	46 - 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS :

FORM III

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFN9J101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D0705001.

Lot Number: C0F300207

Date Analyzed: 07/05/00

Time Analyzed: 13:21

Matrix: WATER

Date Extracted: 07/01/00

GC Column: HP5MS ID: .25

Extraction Method: 3520C

Instrument ID: 721

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DF/S1/0181/IDW/001	DFKQ3102	D0705002.	07/05/00	13:50
02	CHECK SAMPLE	DFN9J102 C	D0703018.	07/03/00	18:22
03	DUPLICATE CHECK	DFN9J103 L	D0703019.	07/03/00	18:52
04					
05					
06					
07					
08					
09					
10					
11					
12					
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16					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G030000 092

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN9J101

Date Extracted: 07/01/00

Dilution factor: 1

Date Analyzed: 07/05/00

QC Batch: 0185092

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
110-86-1	Pyridine	20	U
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
120-12-7	Anthracene	10	U
56-55-3	Benzo(a)anthracene	10	U
50-32-8	Benzo(a)pyrene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
111-44-4	bis(2-Chloroethyl) ether	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
86-74-8	Carbazole	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
95-50-1	1,2-Dichlorobenzene	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
91-94-1	3,3'-Dichlorobenzidine	50	U
120-83-2	2,4-Dichlorophenol	10	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G030000 092

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN9J101

Date Extracted: 07/01/00

Dilution factor: 1

Date Analyzed: 07/05/00

QC Batch: 0185092

Client Sample Id: INTRA-LAB BLANK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
84-74-2	Di-n-butyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
51-28-5	2,4-Dinitrophenol	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	50	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	50	U
99-09-2	3-Nitroaniline	50	U
100-01-6	4-Nitroaniline	50	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	50	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER Lab Sample ID: C0G030000 092

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN9J101

Date Extracted: 07/01/00

Dilution factor: 1

Date Analyzed: 07/05/00

QC Batch: 0185092

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID (Standard): D0703CCC

Date Analyzed: 07/03/00

Instrument ID: 721

Time Analyzed: 0930

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	106782	4.60	366356	5.82	205085	8.38
UPPER LIMIT	213564	5.10	732712	6.32	410170	8.88
LOWER LIMIT	53391	4.10	183178	5.32	102543	7.88
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB CH	96980	4.60	395365	5.82	232886	8.38
02 INTRA-LAB CH	102238	4.60	408487	5.82	233666	8.38
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID (Standard): D0703CCC

Date Analyzed: 07/03/00

Instrument ID: 721

Time Analyzed: 0930

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	364931	11.26	338717	17.09	242882	20.05
UPPER LIMIT	729862	11.76	677434	17.59	485764	20.55
LOWER LIMIT	182466	10.76	169359	16.59	121441	19.55
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB CH	446832	11.25	435598	17.08	375311	20.04
02 INTRA-LAB CH	453246	11.26	446213	17.08	381908	20.04
03						
04						
05						
06						
07						
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19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID (Standard): D0705CCC

Date Analyzed: 07/05/00

Instrument ID: 721

Time Analyzed: 1251

	IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (ANT)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	107308	4.58	367360	5.79	195034	8.35
UPPER LIMIT	214616	5.08	734720	6.29	390068	8.85
LOWER LIMIT	53654	4.08	183680	5.29	97517	7.85
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	118660	4.57	432024	5.79	232952	8.34
02 DF/SI/0181/I	109139	4.57	370840	5.79	176292	8.34
03						
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20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

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Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID (Standard): D0705CCC

Date Analyzed: 07/05/00

Instrument ID: 721

Time Analyzed: 1251

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	340000	11.22	321544	17.05	249198	20.02
UPPER LIMIT	680000	11.72	643088	17.55	498396	20.52
LOWER LIMIT	170000	10.72	160772	16.55	124599	19.52
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	424824	11.22	389183	17.05	330076	20.01
02 DF/SI/0181/I	279533	11.22	221504	17.05	190612	20.02
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

PESTICIDE SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3103

Date Extracted: 07/02/00

Date Analyzed: 07/04/00

QC Batch: 0184111

Client Sample Id: DF/S1/0181/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
309-00-2	Aldrin	0.030		J P
319-84-6	alpha-BHC	0.050		U
319-85-7	beta-BHC	0.029		J P
319-86-8	delta-BHC	0.050		U
58-89-9	gamma-BHC (Lindane)	0.022		J P
5103-71-9	alpha-Chlordane	0.050		U
5103-74-2	gamma-Chlordane	0.012		J P
72-54-8	4,4'-DDD	0.050		U
72-55-9	4,4'-DDE	0.012		J P
50-29-3	4,4'-DDT	0.050		U
60-57-1	Dieldrin	0.050		U
959-98-8	Endosulfan I	0.050		U
33213-65-9	Endosulfan II	0.050		U
1031-07-8	Endosulfan sulfate	0.050		U
72-20-8	Endrin	0.050		U
7421-93-4	Endrin aldehyde	0.050		U
53494-70-5	Endrin ketone	0.050		U
76-44-8	Heptachlor	0.050		U
1024-57-3	Heptachlor epoxide	0.050		U
72-43-5	Methoxychlor	0.10		U
8001-35-2	Toxaphene	2.0		U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8081A
Pesticides (8081A)

Lab Sample ID: C0G020000 111

Sample WT/Vol: 1000 / mL
Work Order: DFN8M102
Dilution factor: 1
Moisture %: NADate Received: 06/30/00
Date Extracted: 07/02/00
Date Analyzed: 07/04/00

QC Batch: 0184111

Client Sample Id: CHECK SAMPLE

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.222	
58-89-9	gamma-BHC (Lindane)	0.234	
50-29-3	4,4'-DDT	0.484	
60-57-1	Dieldrin	0.491	
72-20-8	Endrin	0.493	
76-44-8	Heptachlor	0.226	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
Matrix: (soil/water) WATER Lab Sample ID: C0G020000 111
Method: SW846 8081A
Pesticides (8081A)

Sample WT/Vol: 1000 / mL Date Received: 06/30/00
Work Order: DFN8M103 Date Extracted: 07/02/00
Dilution factor: 1 Date Analyzed: 07/04/00
Moisture %: NA

QC Batch: 0184111
Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.209	
58-89-9	gamma-BHC (Lindane)	0.218	
50-29-3	4,4'-DDT	0.541	
60-57-1	Dieldrin	0.456	
72-20-8	Endrin	0.499	
76-44-8	Heptachlor	0.215	

663 44 2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0F300207

GC Column(1): DB608

ID: 0.53 (mm)

GC Column(2): DB1701

ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	DF/SI/0181/I	119	63	97	100			0
02	PBLK1	92	92	98	102			0
03	LCS1	95	95	98	103			0
04	LCD1	88	88	96	96			0
05								
06								
07								
08								
09								
10								
11								
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27								
28								
29								
30								

ADVISORY

QC LIMITS ~~31-130~~

S1 (TCX) = Tetrachloro-m-xylene (20-141) 0%
S2 (DCB) = Decachlorobiphenyl (52-130) 77%
10-147

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8M102

BATCH: 0184111

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	0.250	0.234	93	49 - 137	
Heptachlor	0.250	0.226	90	57 - 124	
Aldrin	0.250	0.222	89	62 - 120	
Dieldrin	0.500	0.491	98	68 - 130	
Endrin	0.500	0.493	99	46 - 137	
4,4'-DDT	0.500	0.484	97	60 - 140	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

SW846 8081A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8M103

BATCH: 0184111

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.218	87	49 - 137	
Endrin	0.500	0.499	100	46 - 137	
4,4'-DDT	0.500	0.541	108	60 - 140	
Heptachlor	0.250	0.215	86	57 - 124	
Aldrin	0.250	0.209	84	62 - 120	
Dieldrin	0.500	0.456	91	68 - 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

PBLK1

Lab Name: STL-PITTSBURGH	Contract:
Lab Code: STLPIT Case No.:	SAS No.: 40325 SDG No.: C0F300207
Lab Sample ID: DFN8M101	Lab File ID: D-A3796
Matrix (soil/water) WATER	Extraction: (SepF/Cont/Sonc) SW3510
Sulfur Cleanup (Y/N) N	Date Extracted: 07/02/00
Date Analyzed (1): 07/03/00	Date Analyzed (2): 07/03/00
Time Analyzed (1): 1432	Time Analyzed (2): 1432
Instrument ID (1): GC4	Instrument ID (2): GC4
GC Column (1): DB608 ID: 0.53 (mm)	GC Column (2): DB1701 ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	DF/SI/0181/I	DFKQ3103	07/03/00	07/03/00
02	LCS1	DFN8M102	07/03/00	07/03/00
03	LCD1	DFN8M103	07/03/00	07/03/00
04				
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25				
26				

COMMENTS: _____

UXB INTERNATIONAL
 METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

 Matrix: (soil/water) WATER Lab Sample ID: C0G020000 111
 Method: SW846 8081A
 Pesticides (8081A)

 Sample WT/Vol: 1000 / mL Date Received: 06/30/00
 Work Order: DFN8M101 Date Extracted: 07/02/00
 Dilution factor: 1 Date Analyzed: 07/04/00
 Moisture %: NA

QC Batch: 0184111

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
72-54-8	4,4'-DDD	0.050	U
72-55-9	4,4'-DDE	0.050	U
50-29-3	4,4'-DDT	0.050	U
60-57-1	Dieldrin	0.050	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
72-20-8	Endrin	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

PCB SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3104

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/04/00

Moisture %: NA

QC Batch: 0184112

Client Sample Id: DF/S1/0181/IDW/001

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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 112

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8N102

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/04/00

Moisture %: NA

QC Batch: 0184112

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
12674-11-2	Aroclor 1016	7.85	
11096-82-5	Aroclor 1260	8.29	

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UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER Lab Sample ID: C0G020000 112
Method: SW846 8082
PCBs (8082)

Sample WT/Vol: 1000 / mL Date Received: 06/30/00
Work Order: DFN8N103 Date Extracted: 07/02/00
Dilution factor: 1 Date Analyzed: 07/04/00
Moisture %: NA

QC Batch: 0184112

Client Sample Id: DUPLICATE CHECK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	7.27	
11096-82-5	Aroclor 1260	7.50	

Lab Name: Severn Trent Laboratories, Inc. Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0F300207

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/S1/0181/IDW/001	136*	94	01
02	METHOD BLK. DFN8N101	78	89	00
03	LCS DFN8N102	82	93	00
04	LCSD DFN8N103	79	90	00

SURROGATES

SRG01 = Tetrachloro-m-xylene
 SRG02 = Decachlorobiphenyl

QC LIMITS

(45-120)
 (24-128)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8082 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8N102

BATCH: 0184112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.85	78	61 - 118	
Aroclor 1260	10.0	8.29	83	61 - 124	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8N103

BATCH: 0184112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.27	73	61- 118	
Aroclor 1260	10.0	7.50	75	61- 124	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFN8N101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: H-A40111.

Lot Number: C0F300207

Matrix: WATER

Extraction Method:

Date Extracted: 07/02/00

Date Analyzed(1): 07/04/00

Date Analyzed(2): N/A

Time Analyzed(1): 21:13

Time Analyzed(2): N/A

Instrument ID(1): M/N

Instrument ID(2): N/A

GC Column(1): N/A

ID: N/A

GC Column(2): N/A

ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/S1/0181/IDW/001	DFKQ3104	07/04/00	N/A
02	CHECK SAMPLE	DFN8N102 C	07/04/00	N/A
03	DUPLICATE CHECK	DFN8N103 L	07/04/00	N/A
04				
05				
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COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 112

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8N101

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/04/00

Moisture %: NA

QC Batch: 0184112

Client Sample Id: INTRA-LAB BLANK

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

HERBICIDE SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3112

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %: NA

QC Batch: 0184109

Client Sample Id: DF/S1/0181/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
94-75-7	2,4-D	2.6		J P
93-72-1	2,4,5-TP (Silvex)	1.1		P

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UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG020000 109

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8K102

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/06/00

Moisture %: NA

QC Batch: 0184109

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
94-75-7	2,4-D	17.5	
93-72-1	2,4,5-TP (Silvex)	3.85	
93-76-5	2,4,5-T	4.13	
87-86-5	Pentachlorophenol	1.95	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

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Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 109

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8K103

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/06/00

Moisture %: NA

QC Batch: 0184109

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
94-75-7	2,4-D	18.7	
93-72-1	2,4,5-TP (Silvex)	4.00	
93-76-5	2,4,5-T	4.33	
87-86-5	Pentachlorophenol	1.98	

FORM I

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0F300207

	CLIENT ID.	SRG01	TOT OUT
	=====	=====	=====
01	DF/S1/0181/IDW/001	75	00
02	METHOD BLK. DFN8K101	64	00
03	LCS DFN8K102	104	00
04	LCSD DFN8K103	107	00

SURROGATES
SRG01 = DCAA

QC LIMITS
(53-119)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8K102

BATCH: 0184109

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	17.5	110	46 - 124	
2,4,5-TP (Silvex)	4.00	3.85	96	53 - 127	
2,4,5-T	4.00	4.13	103	40 - 126	
Pentachlorophenol	2.00	1.95	97	30 - 125	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8K103

BATCH: 0184109

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	18.7	117	46 - 124	
2,4,5-TP (Silvex)	4.00	4.00	100	53 - 127	
2,4,5-T	4.00	4.33	108	40 - 126	
Pentachlorophenol	2.00	1.98	99	30 - 125	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

BLANK WORKORDER NO.

DFN8K101

SW846 8151A METHOD BLANK SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

Lab File ID: A-A40113.

Matrix: WATER

Date Analyzed(1): 07/06/00

Time Analyzed(1): 00:19

Instrument ID(1): A/B

GC Column(1): DB5/DB1701 ID: 053

GC Column(2): N/A

ID: N/A

SDG Number:

Lot Number: C0F300207

Extraction Method: 8151A

Date Extracted: 07/02/00

Date Analyzed(2): N/A

Time Analyzed(2): N/A

Instrument ID(2): N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/S1/0181/IDW/001	DFKQ3112	07/11/00	N/A
02	CHECK SAMPLE	DFN8K102 C	07/06/00	N/A
03	DUPLICATE CHECK	DFN8K103 L	07/06/00	N/A
04				
05				
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20				

COMMENTS:

FORM IV

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UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 109

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8K101

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/06/00

Moisture %: NA

QC Batch: 0184109

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
94-75-7	2,4-D	4.0	U
93-72-1	2,4,5-TP (Silvex)	1.0	U

METALS SUMMARY

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STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001
Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.045	0.20	0.088	B	1	CVAA	7/1/00	12:12

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

Metals Data Reporting Form

Sample Results

Lab Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001
 Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.7	200	602		1	ICP	7/1/00	18:42
Antimony	220.35	1.5	60.0	10.1	B	1	ICPST	7/1/00	18:33
Arsenic	189.04	2.6	10.0	13.9		1	ICPST	7/1/00	18:33
Barium	493.41	0.41	200	81.6	B	1	ICP	7/1/00	18:42
Beryllium	313.04	0.071	5.0	0.071	U	1	ICP	7/1/00	18:42
Cadmium	226.50	0.49	5.0	0.49	U	1	ICPST	7/1/00	18:33
Calcium	317.93	37.9	5000	35600		1	ICP	7/1/00	18:42
Cobalt	228.62	3.2	50.0	3.2	U	1	ICP	7/1/00	18:42
Copper	324.75	2.2	25.0	21.8	B	1	ICP	7/1/00	18:42
Lead	220.35	1.9	3.0	4.7		1	ICPST	7/1/00	18:33
Magnesium	279.08	19.9	5000	9230		1	ICP	7/1/00	18:42
Manganese	257.61	0.87	15.0	391		1	ICP	7/1/00	18:42
Nickel	231.60	6.1	40.0	6.1	U	1	ICP	7/1/00	18:42
Potassium	766.49	496	5000	3960	B	1	ICP	7/1/00	18:42
Selenium	220.35	2.1	5.0	2.1	U	1	ICPST	7/1/00	18:33
Silver	328.07	0.94	10.0	1.3	B	1	ICPST	7/1/00	18:33
Sodium	589	29.0	10000	433000		2	ICP	7/1/00	19:04
Thallium	190.86	3.9	10.0	3.9	U	1	ICPST	7/1/00	18:33
Vanadium	292.40	1.8	50.0	3.7	B	1	ICP	7/1/00	18:42
Zinc	213.86	3.7	20.0	71.2		1	ICPST	7/1/00	18:33

Comments: Lot #. C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

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STL-Pittsburgh
Metals Data Reporting FormSample Results

Lab Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001
Matrix: Water Units: ug/L Prep Date: 7/3/00 Prep Batch: 0185113
Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Chromium	267.72	1.0	10.0	26.7		1	ICPST	7/3/00	19:24
Iron	259.94	8.8	100	1250		1	ICP	7/3/00	18:23

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL
B Result is between MDL and RL

Form 1 Equivalent

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0701HGA.PRN

Standard Source: _____

Standard ID: _____

			ICB1 7/1/00 12:01 PM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U				

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Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00701A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 7/1/00 3:30 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	12.7	U						
Barium	493.409	200	0.4	U						
Beryllium	313.042	5	0.1	U						
Calcium	317.933	5000	823.0	B						
Cobalt	228.616	50	3.2	U						
Copper	324.754	25	2.2	U						
Magnesium	279.079	5000	19.9	U						
Manganese	257.61	15	0.9	U						
Nickel	231.604	40	6.1	U						
Potassium	766.491	5000	496.0	U						
Sodium	588.995	5000	21.9	B						
Vanadium	292.402	50	1.8	U						

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00703A.ARC

Standard Source: _____

Standard ID: _____

			ICB1 7/3/00 2:20 PM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Iron	259.94	100	8.8	U				

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STL-Pittsburgh
Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00701A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 7/1/00 3:36 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Antimony	220.353	60	2.5	B								
Arsenic	189.042	10	2.6	U								
Cadmium	226.502	5	0.5	U								
Lead	220.353	3	1.9	U								
Selenium	220.353	5	2.1	U								
Silver	328.068	10	0.9	U								
Thallium	190.864	10	3.9	U								
Zinc	213.856	20	3.7	U								

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00703A.ARC

Standard Source: _____

Standard ID: _____

			ICB1 7/3/00 2:23 PM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Chromium	267.716	10	1.0	U				

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Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0701HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/1/00 12:05 PM		CCB2 7/1/00 12:30 PM					
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	B	0.0	U				

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00701A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/1/00 4:09 PM		CCB2 7/1/00 4:50 PM		CCB3 7/1/00 5:18 PM		CCB4 7/1/00 5:55 PM		CCB5 7/1/00 6:32 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	12.7	U	12.7	U	12.7	U	34.7	B	12.7	U
Barium	493.409	200	0.4	U	0.4	U	0.4	U	3.1	B	0.5	B
Beryllium	313.042	5	0.1	U	0.6	B	0.2	B	3.2	B	0.9	B
Calcium	317.933	5000	176.0	B	45.1	B	37.9	U	303.0	B	37.9	U
Cobalt	228.616	50	3.2	U	3.2	U	3.2	U	3.2	U	3.2	U
Copper	324.754	25	2.2	U	2.2	U	2.2	U	2.5	B	2.2	U
Magnesium	279.079	5000	19.9	U	19.9	U	19.9	U	25.8	B	19.9	U
Manganese	257.61	15	0.9	U	0.9	U	0.9	U	3.2	B	0.9	U
Nickel	231.604	40	6.1	U	6.1	U	6.1	U	6.1	U	6.1	U
Potassium	766.491	5000	496.0	U	496.0	U	496.0	U	496.0	U	496.0	U
Sodium	588.995	5000	14.5	U	14.5	U	14.5	U	122.0	B	16.9	B
Vanadium	292.402	50	1.8	U	-2.2	B	1.8	U	1.8	U	1.8	U

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Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00701A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 7/1/00 7:19 PM		Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q										
Aluminum	308.215	200	12.7	U										
Barium	493.409	200	0.4	U										
Beryllium	313.042	5	0.1	U										
Calcium	317.933	5000	37.9	U										
Cobalt	228.616	50	3.2	U										
Copper	324.754	25	2.2	U										
Magnesium	279.079	5000	19.9	U										
Manganese	257.61	15	0.9	U										
Nickel	231.604	40	6.1	U										
Potassium	766.491	5000	496.0	U										
Sodium	588.995	5000	14.5	U										
Vanadium	292.402	50	1.8	U										

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00703A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/3/00 2:58 PM	CCB2 7/3/00 3:39 PM	CCB3 7/3/00 4:11 PM	CCB4 7/3/00 4:52 PM	CCB5 7/3/00 5:21 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Iron	259.94	100	8.8 U	8.8 U	8.8 U	8.8 U	8.8 U

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STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00703A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 7/3/00 5:58 PM	CCB7 7/3/00 6:32 PM			
			Found Q	Found Q	Found Q	Found Q	Found Q
Iron	259.94	100	8.8 U	8.8 U			

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00701A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/1/00 4:26 PM	CCB2 7/1/00 5:18 PM	CCB3 7/1/00 5:30 PM	CCB4 7/1/00 6:20 PM	CCB5 7/1/00 6:54 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Antimony	220.353	60	1.5 U	1.9 B	1.5 U	1.5 U	1.5 U
Arsenic	189.042	10	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Cadmium	226.502	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Lead	220.353	3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Selenium	220.353	5	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Silver	328.068	10	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Thallium	190.864	10	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
Zinc	213.856	20	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U

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Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00703A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/3/00 3:13 PM	CCB2 7/3/00 3:48 PM	CCB3 7/3/00 4:41 PM	CCB4 7/3/00 5:27 PM	CCB5 7/3/00 6:20 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Chromium	267.716	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00703A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 7/3/00 6:55 PM		CCB7 7/3/00 7:37 PM					
			Found	Q	Found	Q	Found	Q	Found	Q
Chromium	267.716	10	1.0	U	1.0	U				

STL-Pittsburgh
Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DFM19BMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.045	0.20	0.045	U	1	CVAA	7/1/00	12:07

Comments: Lot #: C0F300207

Version 3.63.4

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DFM2LBMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	12.7	200	12.7	U	1	ICP	7/1/00	18:23
Antimony	220.353	1.5	60.0	1.5	U	1	ICPST	7/1/00	18:08
Arsenic	189.042	2.6	10.0	2.6	U	1	ICPST	7/1/00	18:08
Barium	493.409	0.41	200	0.41	U	1	ICP	7/1/00	18:23
Beryllium	313.042	0.071	5.0	0.071	U	1	ICP	7/1/00	18:23
Cadmium	226.502	0.49	5.0	0.49	U	1	ICPST	7/1/00	18:08
Calcium	317.933	37.9	5000	206	B	1	ICP	7/1/00	18:23
Cobalt	228.616	3.2	50.0	3.2	U	1	ICP	7/1/00	18:23
Copper	324.754	2.2	25.0	2.2	U	1	ICP	7/1/00	18:23
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	7/1/00	18:08
Magnesium	279.079	19.9	5000	19.9	U	1	ICP	7/1/00	18:23
Manganese	257.61	0.87	15.0	0.87	U	1	ICP	7/1/00	18:23
Nickel	231.604	6.1	40.0	6.1	U	1	ICP	7/1/00	18:23
Potassium	766.491	496	5000	496	U	1	ICP	7/1/00	18:23
Selenium	220.353	2.1	5.0	2.1	U	1	ICPST	7/1/00	18:08
Silver	328.068	0.94	10.0	0.94	U	1	ICPST	7/1/00	18:08
Sodium	588.995	14.5	5000	84.2	B	1	ICP	7/1/00	18:23
Thallium	190.864	3.9	10.0	3.9	U	1	ICPST	7/1/00	18:08
Vanadium	292.402	1.8	50.0	1.8	U	1	ICP	7/1/00	18:23
Zinc	213.856	3.7	20.0	8.3	B	1	ICPST	7/1/00	18:08

Comments: Lot #: C0F300207

Version 3.63.4

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

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Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DFNERBMatrix: Water Units: ug/L Prep Date: 7/3/00 Prep Batch: 0185113Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Chromium	267.716	1.0	10.0	1.0	U	1	ICPST	7/3/00	18:59
Iron	259.94	8.8	100	8.8	U	1	ICP	7/3/00	18:04

Comments: Lot #: C0F300207

Version 3.63.4

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DFKQ3S
 Original Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001S
 Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095
 Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.088	B	1.1		1	103.2	1	1	CVAA	7/1/00	12:12	7/1/00	12:14

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL
 B Result is between MDL and RL
 N Spike recovery failed
 NC Percent recovery was not calculated
 * Duplicate analysis RPD was not within limits

Form 5A Equivalent

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Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DFKQ3D

Original Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001D

Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095

Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.088	B	1.1		1	102.2	1	1	CVAA	7/1/00	12:12	7/1/00	12:16

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DFKQ3DMatrix Spike Sample ID: DFKQ3S Client ID: DF/S1/0181/IDW/001DMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	1.1		1.1		1.0 %	1	1	CVAA	7/1/00	12:14	7/1/00	12:16

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

Form 6 Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

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STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DFKQ3S

Original Sample ID: DFKQ3

Client ID: DF/S1/0181/IDW/001S

Matrix: Water

Units: ug/L

Prep Date: 7/1/00

Prep Batch: 0183115

Weight: NA

Volume: 50

Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	602		2550		2000	97.3	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Antimony	220.4	10.1	B	511		500	100.3	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Arsenic	189.0	13.9		2050		2000	101.8	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Barium	493.4	81.6	B	1860		2000	89.1	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Beryllium	313.0	0.071	U	46.1		50	92.2	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Cadmium	226.5	0.49	U	48.3		50	96.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Calcium	317.9	35600		83100		50000	95.1	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Cobalt	228.6	3.2	U	465		500	92.9	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Copper	324.8	21.8	B	249		250	90.8	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Lead	220.4	4.7		506		500	100.2	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Magnesium	279.1	9230		55400		50000	92.4	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Manganese	257.6	391		836		500	89.0	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Nickel	231.6	6.1	U	473		500	94.6	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Potassium	766.5	3960	B	50500		50000	93.0	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Selenium	220.4	2.1	U	2070		2000	103.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Silver	328.1	1.3	B	48.8		50	94.9	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Sodium	589	433000		468000	NC	50000		2	2	ICP	7/1/00	19:04	7/1/00	19:10
Thallium	190.9	3.9	U	2100		2000	105.1	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Vanadium	292.4	3.7	B	458		500	90.8	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Zinc	213.9	71.2		605		500	106.8	1	1	ICPST	7/1/00	18:33	7/1/00	18:41

Comments. Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DFKQ3D
 Original Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001D
 Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	602		2570		2000	98.5	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Antimony	220.4	10.1	B	513		500	100.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Arsenic	189.0	13.9		2040		2000	101.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Barium	493.4	81.6	B	1870		2000	89.6	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Beryllium	313.0	0.071	U	46.4		50	92.8	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Cadmium	226.5	0.49	U	47.9		50	95.8	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Calcium	317.9	35600		84300		50000	97.5	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Cobalt	228.6	3.2	U	467		500	93.4	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Copper	324.8	21.8	B	250		250	91.5	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Lead	220.4	4.7		502		500	99.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Magnesium	279.1	9230		55900		50000	93.4	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Manganese	257.6	391		850		500	91.8	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Nickel	231.6	6.1	U	478		500	95.5	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Potassium	766.5	3960	B	50400		50000	93.0	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Selenium	220.4	2.1	U	2060		2000	103.2	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Silver	328.1	1.3	B	48.6		50	94.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Sodium	589	433000		480000	NC	50000		2	2	ICP	7/1/00	19:04	7/1/00	19:13
Thallium	190.9	3.9	U	2090		2000	104.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Vanadium	292.4	3.7	B	464		500	92.1	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Zinc	213.9	71.2		585		500	102.8	1	1	ICPST	7/1/00	18:33	7/1/00	18:45

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL
 B Result is between MDL and RL
 N Spike recovery failed
 NC Percent recovery was not calculated
 * Duplicate analysis RPD was not within limits

Form 5A Equivalent

663

92

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DFKQ3D

Matrix Spike Sample ID: DFKQ3S Client ID: DF/S1/0181/IDW/001D

Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115

Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	2550		2570		1.3 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Antimony	220.353	511		513		0.2 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Arsenic	189.042	2050		2040		0.2 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Barium	493.409	1860		1870		0.6 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Beryllium	313.042	46.1		46.4		0.6 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Cadmium	226.502	48.3		47.9		0.7 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Calcium	317.933	83100		84300		2.5 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Cobalt	228.616	465		467		0.5 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Copper	324.754	249		250		0.7 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Lead	220.353	506		502		0.6 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Magnesium	279.079	55400		55900		1.0 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Manganese	257.61	836		850		3.0 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Nickel	231.604	473		478		1.0 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Potassium	766.491	50500		50400		0.1 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Selenium	220.353	2070		2060		0.2 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Silver	328.068	48.8		48.6		0.4 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Sodium	588.995	468000	NC	480000	NC		2	2	ICP	7/1/00	19:10	7/1/00	19:13
Thallium	190.864	2100		2090		0.5 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Vanadium	292.402	458		464		1.4 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Zinc	213.856	605		585		3.8 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

Form 6 Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DFM19CMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	2.5	2.5	101.2		80-120	1	CVAA	7/1/00	12:09

Comments: Lot #: C0F300207

Version 3.63.4

STL Pittsburgh

U Result is less than the MDL
B Result is between MDL and RL

Form 7 Equivalent

663

94

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DFM2LCMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	2000	1930	96.3		80-120	1	ICP	7/1/00	18:26
Antimony	220.353	500	497	99.5		80-120	1	ICPST	7/1/00	18:12
Arsenic	189.042	2000	2000	100.0		80-120	1	ICPST	7/1/00	18:12
Barium	493.409	2000	1910	95.7		80-120	1	ICP	7/1/00	18:26
Beryllium	313.042	50.0	48.4	96.8		80-120	1	ICP	7/1/00	18:26
Cadmium	226.502	50.0	48.4	96.7		80-120	1	ICPST	7/1/00	18:12
Calcium	317.933	50000	49600	99.2		80-120	1	ICP	7/1/00	18:26
Cobalt	228.616	500	481	96.2		80-120	1	ICP	7/1/00	18:26
Copper	324.754	250	241	96.3		80-120	1	ICP	7/1/00	18:26
Lead	220.353	500	495	99.1		80-120	1	ICPST	7/1/00	18:12
Magnesium	279.079	50000	49300	98.6		80-120	1	ICP	7/1/00	18:26
Manganese	257.61	500	484	96.7		80-120	1	ICP	7/1/00	18:26
Nickel	231.604	500	486	97.1		80-120	1	ICP	7/1/00	18:26
Potassium	766.491	50000	47600	95.1		80-120	1	ICP	7/1/00	18:26
Selenium	220.353	2000	2010	100.7		80-120	1	ICPST	7/1/00	18:12
Silver	328.068	50.0	47.4	94.7		80-120	1	ICPST	7/1/00	18:12
Sodium	588.995	50000	48700	97.3		80-120	1	ICP	7/1/00	18:26
Thallium	190.864	2000	2030	101.7		80-120	1	ICPST	7/1/00	18:12
Vanadium	292.402	500	476	95.2		80-120	1	ICP	7/1/00	18:26
Zinc	213.856	500	525	105.0		80-120	1	ICPST	7/1/00	18:12

Comments: Lot #: C0F300207

Version 3.63.4

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DFNERCMatrix: Water Units: ug/L Prep Date: 7/3/00 Prep Batch: 0185113Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Chromium	267.716	200	203	101.5		80-120	1	ICPST	7/3/00	19:03
Iron	259.94	1000	1020	101.9		80-120	1	ICP	7/3/00	18:07

Comments: Lot #: C0F300207

663 96

GENERAL CHEMISTRY SUMMARY

Client Sample ID: DF/S1/0181/IDW/001

General Chemistry

Lot-Sample #....: C0F300207-001
Date Sampled....: 06/29/00Work Order #....: DFKQ3
Date Received...: 06/30/00

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.5		No Units	SW846 9040	07/01/00	0183123
		Dilution Factor: 1		MS Run #.....: 0183020		
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	07/06-07/07/00	0188125
		Dilution Factor: 1		MS Run #.....: 0188024		
Flashpoint	>200		deg F	SW846 1010	07/05/00	0187219
		Dilution Factor: 1		MS Run #.....: 0187083		
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	07/03/00	0185144
		Dilution Factor: 1		MS Run #.....: 0185038		

663 98

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0F300207

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total	ND	Work Order #: DFQ6J101 10.0	ug/L	MB Lot-Sample #: SW846 9012A	C0G060000-125 07/06-07/07/00	0188125
		Dilution Factor: 1				
Total Sulfide	ND	Work Order #: DFNGK101 1.0	mg/L	MB Lot-Sample #: MCAWW 376.1	C0G030000-144 07/03/00	0185144
		Dilution Factor: 1				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0F300207

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	101	Work Order #: DFM5V101 (85 - 115)	LCS Lot-Sample#: C0G010000-123 SW846 9040	07/01/00	0183123
		Dilution Factor: 1			
Cyanide, Total	106	Work Order #: DFQ6J102 (85 - 145)	LCS Lot-Sample#: C0G060000-125 SW846 9012A	07/06-07/07/00	0188125
		Dilution Factor: 1			
Flashpoint	100	Work Order #: DFP7P101 (85 - 115)	LCS Lot-Sample#: C0G050000-219 SW846 1010	07/05/00	0187219
		Dilution Factor: 1			
Total Sulfide	92	Work Order #: DFNGK102 (75 - 125)	LCS Lot-Sample#: C0G030000-144 MCAWW 376.1	07/03/00	0185144
		Dilution Factor: 1			

NOTE (S) :

 Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

663 100

General Chemistry

Client Lot #...: C0F300207

Matrix.....: WATER

Date Sampled...: 06/28/00

Date Received...: 06/29/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Cyanide, Total			WO#: DFKQ312N-MS/DFKQ312P-MSD		MS Lot-Sample #: C0F300207-001		
NC	(75 - 125)				SW846 9012A	07/06-07/07/00	0188125
NC	(75 - 125)		(0-20)		SW846 9012A	07/06-07/07/00	0188125
			Dilution Factor: 1				
			MS Run #.....: 0188024				

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0F300207

Matrix.....: WATER

Date Sampled...: 06/28/00

Date Received...: 06/29/00

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Sulfide	88	Work Order #...: DFHAP16Q (75 - 125)	MCAWW 376.1	MS Lot-Sample #: C0F290209-003 07/03/00	0185144
		Dilution Factor: 1			
		MS Run #.....: 0185038			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

663 102

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: C0F300207

Work Order #....: DFKQ3-SMP

Matrix.....: WATER

DFKQ3-DUP

Date Sampled....: 06/29/00

Date Received...: 06/30/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Flashpoint	>200	>200	deg F	0.0	(0-20)	SD Lot-Sample #: C0F300207-001 SW846 1010	07/05/00	0187219
			Dilution Factor: 1					
			Prep Date.....: 0187083		Analysis Date..:	Prep Batch #...:		
pH	7.5	7.5	No Units	0.40	(0-20)	SD Lot-Sample #: C0F300207-001 SW846 9040	07/01/00	0183123
			Dilution Factor: 1					
			Prep Date.....: 0183020		Analysis Date..:	Prep Batch #...:		

GC/MS VOLATILE DATA

663 104

**GC/MS VOLATILE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0F300207

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	DF/S1/0181/IDW/001	110	102	97	105	00
02	INTRA-LAB QC	111	100	95	106	00
03	METHOD BLK. DFNA0101	106	100	92	103	00
04	LCS DFNA0102	104	99	102	103	00
05	LAB MS/MSD D	103	101	100	104	00
06	LAB MS/MSD S	107	103	102	107	00

SURROGATES

SRG01 = 1,2-Dichloroethane-d4
SRG02 = Toluene-d8
SRG03 = 4-Bromofluorobenzene
SRG04 = Dibromofluoromethane

QC LIMITS

(77-120)
(78-111)
(80-114)
(78-110)

Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

663 106

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G030000

WO #: DFNA0102

BATCH: 0185097

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	50.7	101	65 - 119	
Trichloroethene	50.0	54.3	109	80 - 122	
Benzene	50.0	55.0	110	79 - 116	
Toluene	50.0	54.0	108	76 - 119	
Chlorobenzene	50.0	52.8	106	81 - 115	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0F300252

WO #: DFL6E128

BATCH: 0185097

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	ND	20.3	41*	57 - 138	a
Trichloroethene	50.0	ND	49.6	99	58 - 141	
Benzene	50.0	ND	49.5	99	73 - 123	
Toluene	50.0	ND	50.0	100	67 - 129	
Chlorobenzene	50.0	ND	47.9	96	70 - 122	

NOTES(S) :

a Spiked analyte recovery is outside stated control limits.

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

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

COMMENTS:

663 108

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C0F300252

WO #: DFL6E129

BATCH: 0185097

COMPOUND	SPIKE	MSD	MSD	QC LIMITS		QUAL
	ADDED (ug/L)	CONCENT. (ug/L)	% REC	% RPD	RPD REC	
1,1-Dichloroethene	50.0	38.4	77	62	* 20 57 - 138	p
Trichloroethene	50.0	52.1	104	4.8	20 58 - 141	
Benzene	50.0	51.7	103	4.2	20 73 - 123	
Toluene	50.0	51.6	103	3.2	20 67 - 129	
Chlorobenzene	50.0	49.6	99	3.3	20 70 - 122	

NOTES (S) :

p Relative percent difference (RPD) is outside stated control limits

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 out of 5 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

SW846 8260B METHOD BLANK SUMMARY

DFNA0101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: WB40704.D

Lot Number: C0F300207

Date Analyzed: 07/03/00

Time Analyzed: 06:41

Matrix: WATER

Date Extracted: 07/03/00

GC Column: RTX-624 ID: .18

Extraction Method: 5030

Instrument ID: HP4

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	=====	=====	=====	=====	=====
01	DF/S1/0181/IDW/001	DFKQ3101	4070315.D	07/03/00	12:24
02	INTRA-LAB QC	DFL6E101	4070304.D	07/03/00	08:09
03	LAB MS/MSD	DFL6E128 S	4070307.D	07/03/00	09:16
04	LAB MS/MSD	DFL6E129 D	4070308.D	07/03/00	09:39
05	CHECK SAMPLE	DFNA0102 C	4070309.D	07/03/00	10:04
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

663 110

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: 40826D

Lab File ID: CF40606

BFB Injection Date: 06/06/00

Instrument ID: HP4

BFB Injection Time: 1058

GC Column: DB624 20M ID: 0.18 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.7
75	30.0 - 60.0% of mass 95	41.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	68.5
175	5.0 - 9.0% of mass 174	4.3 (6.2)1
176	95.0 - 101.0% of mass 174	65.4 (95.5)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD5	VSTD5	4A40606	06/06/00	1126
02	VSTD20	VSTD20	4B40606	06/06/00	1153
03	VSTD50	VSTD50	4C40606	06/06/00	1218
04	VSTD100	VSTD100	4D40606	06/06/00	1242
05	VSTD200	VSTD200	4E40606	06/06/00	1309
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

663 111

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID: BF40703

BFB Injection Date: 07/03/00

Instrument ID: HP4

BFB Injection Time: 0532

GC Column: DB624 20M ID: 0.18 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.0
75	30.0 - 60.0% of mass 95	42.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.8)1
174	50.0 - 100.0% of mass 95	68.1
175	5.0 - 9.0% of mass 174	4.7 (6.9)1
176	95.0 - 101.0% of mass 174	67.3 (98.7)1
177	5.0 - 9.0% of mass 176	3.9 (5.8)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	CC40703	07/03/00	0555
02	INTRA-LAB BL	DFNA0101	WB40704	07/03/00	0641
03	INTRA-LAB CH	DFNA0102	4070309	07/03/00	1004
04	DF/SI/0181/I	DFKQ3101	4070315	07/03/00	1224
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A **663 112**
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID (Standard): CC40703

Date Analyzed: 07/03/00

Instrument ID: HP4

Time Analyzed: 0555

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	114381	10.13	205384	12.46	457049	7.00
UPPER LIMIT	228762	10.33	410768	12.66	914098	7.20
LOWER LIMIT	57191	9.93	102692	12.26	228525	6.80
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	114492	10.12	178635	12.46	522897	7.01
02 INTRA-LAB CH	136723	10.13	234487	12.45	584835	7.00
03 DF/SI/0181/I	135811	10.12	204899	12.46	607811	7.01
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22						

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

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.20 minutes of internal standard RT
RT LOWER LIMIT = - 0.20 minutes of internal standard RT

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

**GC/MS VOLATILE
SAMPLE DATA**

663 114

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFKQ3101

Date Extracted: 07/03/00

Dilution factor: 30

Date Analyzed: 07/03/00

QC Batch: 0185097

Client Sample Id: DF/S1/0181/IDW/001

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	600	U
71-43-2	Benzene	150	U
75-27-4	Bromodichloromethane	150	U
75-25-2	Bromoform	150	U
74-83-9	Bromomethane	300	U
78-93-3	2-Butanone	600	U
75-15-0	Carbon disulfide	150	U
56-23-5	Carbon tetrachloride	150	U
108-90-7	Chlorobenzene	150	U
124-48-1	Dibromochloromethane	150	U
75-00-3	Chloroethane	300	U
67-66-3	Chloroform	3300	
74-87-3	Chloromethane	300	U
75-34-3	1,1-Dichloroethane	150	U
107-06-2	1,2-Dichloroethane	150	U
75-35-4	1,1-Dichloroethene	150	U
540-59-0	1,2-Dichloroethene (total)	150	U
78-87-5	1,2-Dichloropropane	150	U
10061-01-5	cis-1,3-Dichloropropene	150	U
10061-02-6	trans-1,3-Dichloropropene	150	U
100-41-4	Ethylbenzene	150	U
591-78-6	2-Hexanone	600	U
75-09-2	Methylene chloride	150	U
108-10-1	4-Methyl-2-pentanone	600	U
100-42-5	Styrene	150	U
79-34-5	1,1,2,2-Tetrachloroethane	150	U
127-18-4	Tetrachloroethene	150	U
108-88-3	Toluene	150	U

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 06/30/00

Work Order: DFKQ3101

Date Extracted: 07/03/00

Dilution factor: 30

Date Analyzed: 07/03/00

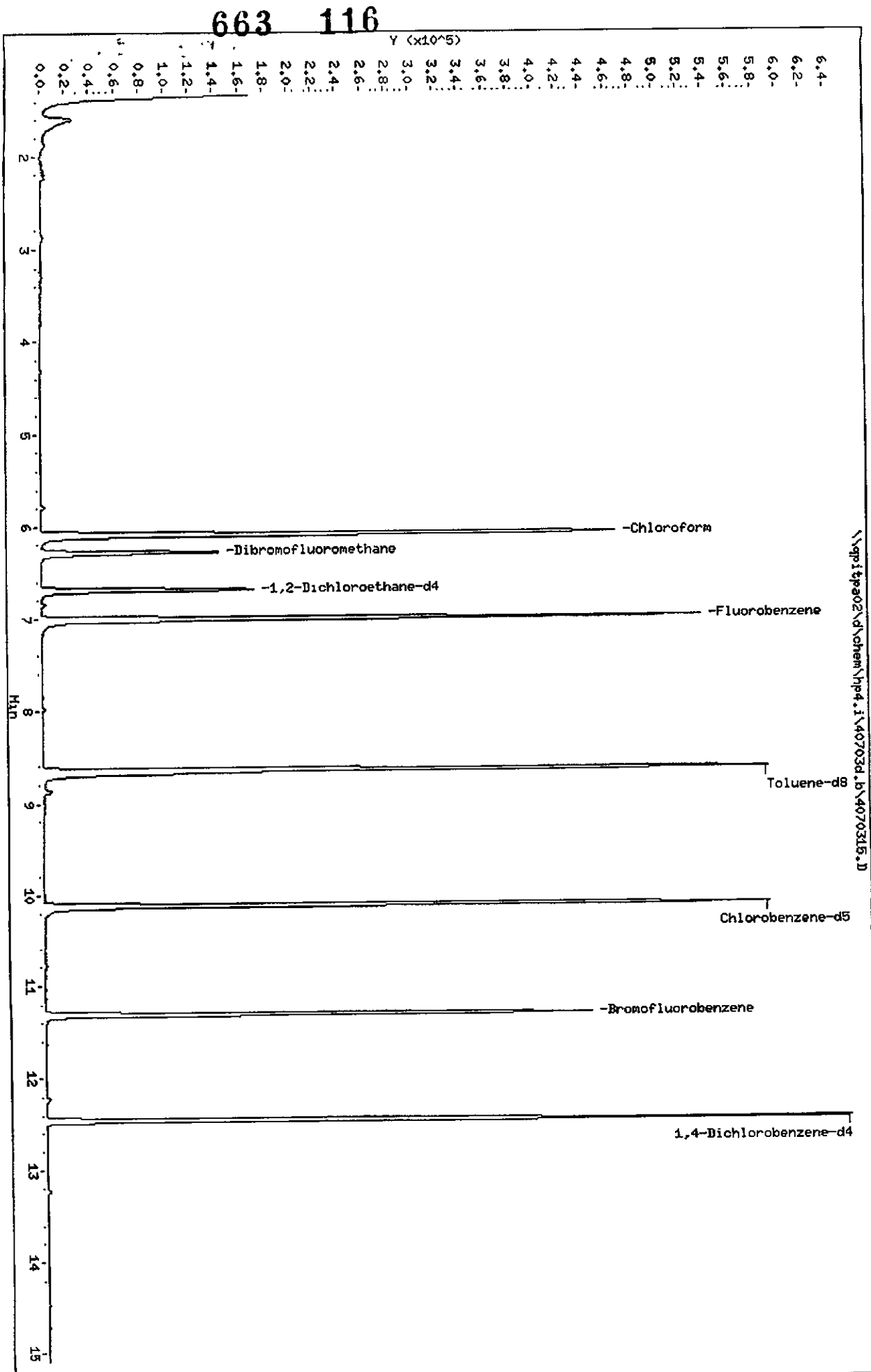
QC Batch: 0185097

Client Sample Id: DF/S1/0181/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-55-6	1,1,1-Trichloroethane	150	U
79-00-5	1,1,2-Trichloroethane	150	U
79-01-6	Trichloroethene	150	U
75-01-4	Vinyl chloride	300	U
1330-20-7	Xylenes (total)	150	U

Data File: \\pittpa02\chem\hp4.i\40703d.b\4070315.D
 Date: 03-JUL-2000 12:24
 Client ID: DF/SL/0184/IDM/001
 Sample Info: 00300207-001 (1ml/30ml)/5ml
 Volume Injected (uL): 5.0
 Column phase: DB 624

Instrument: hp4.i
 Operator: 10099
 Column diameter: 0.18



Data File: \\qpitpa02\d\chem\hp4.i\40703d.b\4070315.D
Report Date: 03-Jul-2000 13:01

Page 1

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40703d.b\4070315.D
Lab Smp Id: DFKQ3101 Client Smp ID: DF/SI/0181/IDW/001
Inj Date : 03-JUL-2000 12:24 MS Autotune Date: 16-DEC-1999 09:07
Operator : 10099 Inst ID: hp4.i
Smp Info : c0f300207-001 (1ml/30ml)/5ml
Misc Info : dfkq3101,40703d.b,8260Bh2o.M
Comment :
Method : \\QPITPA02\D\chem\hp4.i\40703d.b\8260Bh2o.m
Meth Date : 03-Jul-2000 06:46 gordonk Quant Type: ISTD
Cal Date : 06-JUN-2000 12:18 Cal File: 4c40606.d
Als bottle: 19
Dil Factor: 30.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC073

Compound Sublist: 2-padep.sub

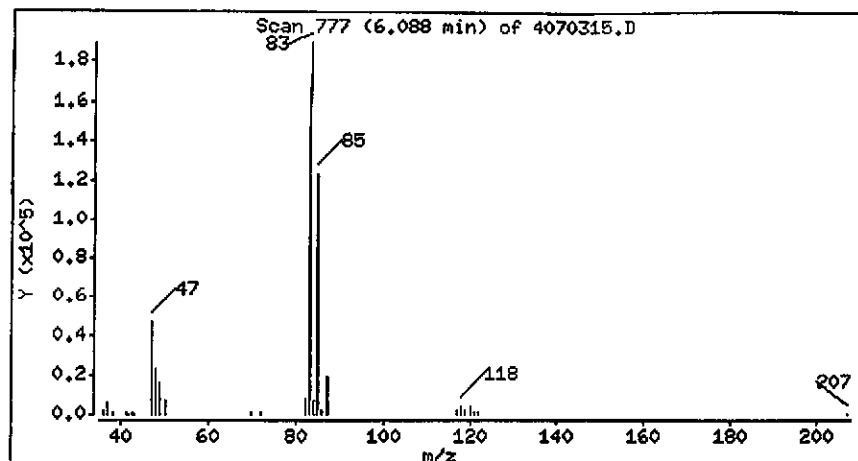
Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	30.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

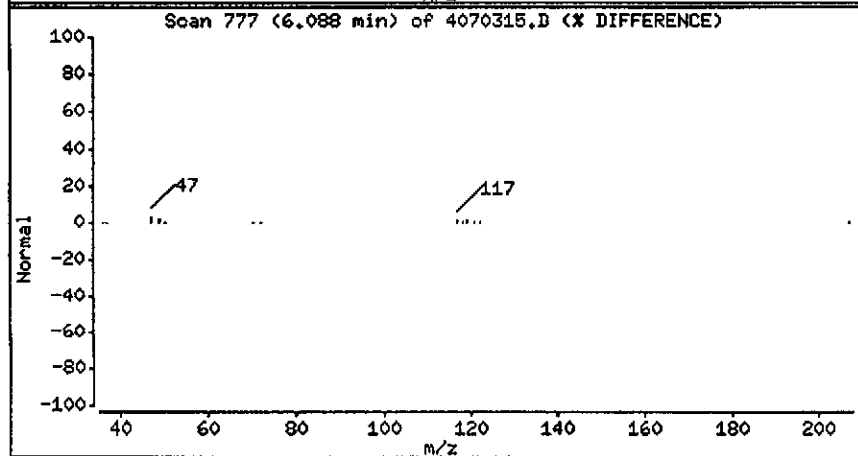
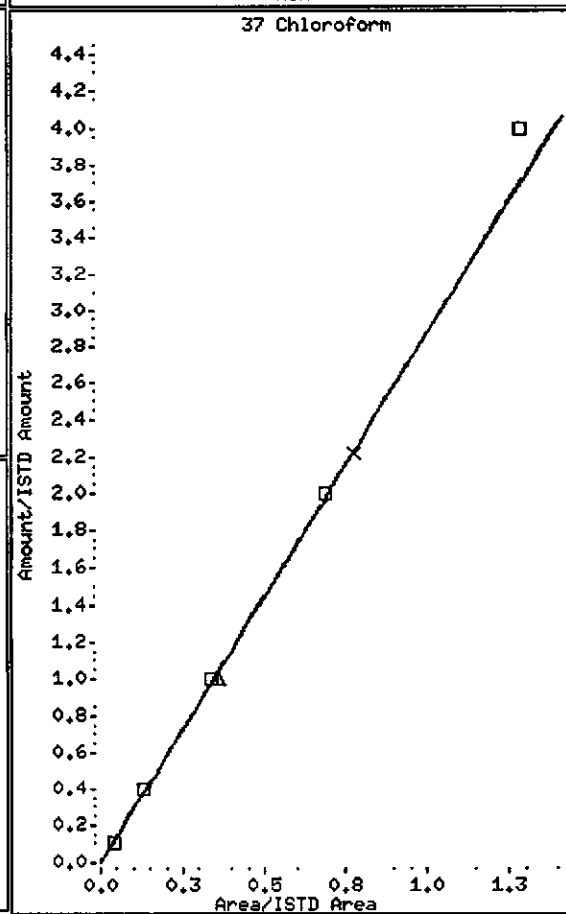
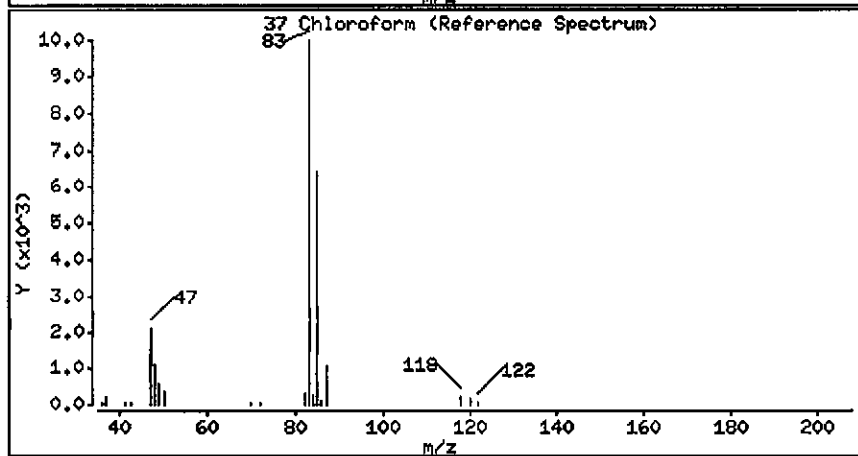
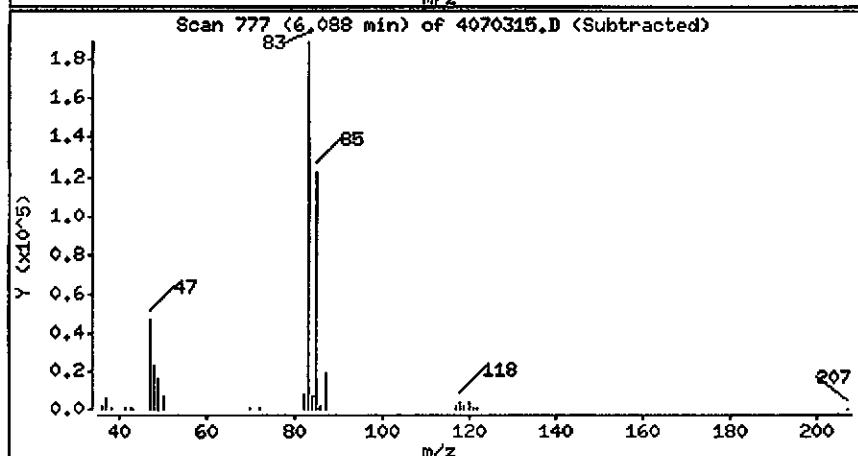
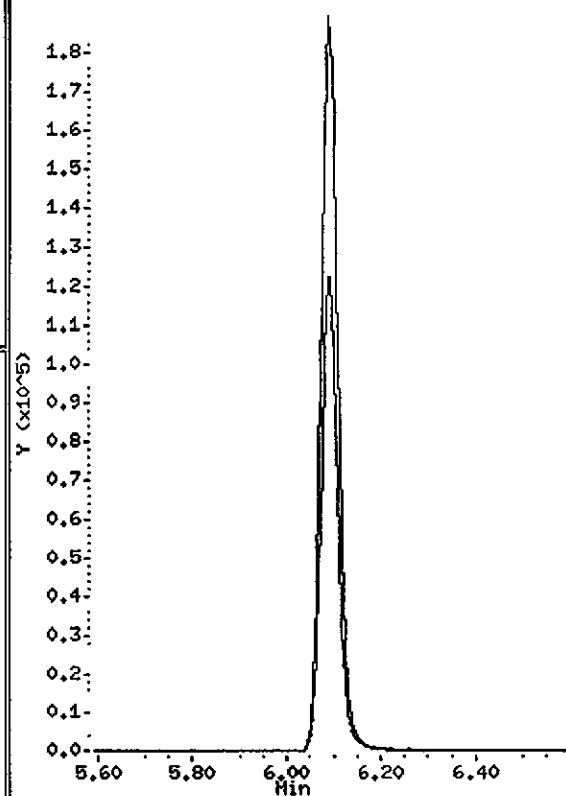
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.005	6.999	(1.000)	607811	250.000	
* 69 Chlorobenzene-d5	119	10.123	10.123	(1.000)	135811	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.458	12.458	(1.000)	204899	250.000	
\$ 39 Dibromofluoromethane	113	6.283	6.286	(0.897)	115961	262.161	52.43
\$ 43 1,2-Dichloroethane-d4	65	6.687	6.993	(0.955)	128781	274.745	54.95
\$ 59 Toluene-d8	98	8.649	8.643	(0.854)	534407	254.384	50.88
\$ 80 Bromofluorobenzene	95	11.303	11.309	(1.117)	198032	242.328	48.46
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
13 Acetone	43	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
=====	=====	==	=====	=====	=====	=====	=====
15 Carbon Disulfide	76				Compound Not Detected.		
18 Methylene Chloride	84				Compound Not Detected.		
19 trans-1,2-Dichloroethene	96				Compound Not Detected.		
20 Methyl tert-butyl ether	73				Compound Not Detected.		
22 Acrylonitrile	53				Compound Not Detected.		
24 1,1-Dichloroethane	63				Compound Not Detected.		
27 2,2-Dichloropropane	77				Compound Not Detected.		
28 cis-1,2-dichloroethene	96				Compound Not Detected.		
M 29 1,2-Dichloroethene (total)	100				Compound Not Detected.		
30 Bromochloromethane	128				Compound Not Detected.		
31 2-Butanone	43				Compound Not Detected.		
37 Chloroform	83	6.088	6.090	(0.869)	472082	554.812	3329
38 1,1,1-Trichloroethane	97				Compound Not Detected.		
40 1,1-Dichloropropene	75				Compound Not Detected.		
41 Carbon Tetrachloride	117				Compound Not Detected.		
42 Benzene	78				Compound Not Detected.		
44 Isobutanol	41				Compound Not Detected.		
45 1,2-Dichloroethane	62				Compound Not Detected.		
47 Trichloroethene	130				Compound Not Detected.		
49 1,2-Dichloropropane	63				Compound Not Detected.		
50 Dibromomethane	93				Compound Not Detected.		
53 Bromodichloromethane	83				Compound Not Detected.		
57 cis-1,3-Dichloropropene	75				Compound Not Detected.		
58 4-Methyl-2-Pentanone	43				Compound Not Detected.		
60 Toluene	91				Compound Not Detected.		
61 trans-1,3-Dichloropropene	75				Compound Not Detected.		
63 1,3-Dichloropropane	76				Compound Not Detected.		
64 1,1,2-Trichloroethane	97				Compound Not Detected.		
65 Tetrachloroethene	164				Compound Not Detected.		
66 2-Hexanone	43				Compound Not Detected.		
67 Dibromochloromethane	129				Compound Not Detected.		
68 1,2-Dibromoethane	107				Compound Not Detected.		
70 Chlorobenzene	112				Compound Not Detected.		
71 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
72 Ethylbenzene	106				Compound Not Detected.		
73 m + p-Xylene	106				Compound Not Detected.		
74 Xylene-o	106				Compound Not Detected.		
M 75 Xylenes (total)	106				Compound Not Detected.		
76 Styrene	104				Compound Not Detected.		
77 Bromoform	173				Compound Not Detected.		
78 Isopropylbenzene	105				Compound Not Detected.		
79 Bromobenzene	156				Compound Not Detected.		
81 n-Propylbenzene	120				Compound Not Detected.		
82 2-Chlorotoluene	126				Compound Not Detected.		
83 1,1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
84 1,2,3-Trichloropropane	110				Compound Not Detected.		
85 4-Chlorotoluene	126				Compound Not Detected.		

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ng)	FINAL (UG/L)
=====	=====	==	=====	=====	=====		=====	=====
86 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
87 tert-Butylbenzene	119				Compound Not Detected.			
88 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
89 sec-Butylbenzene	105				Compound Not Detected.			
90 4-Isopropyltoluene	119				Compound Not Detected.			
91 1,3-Dichlorobenzene	146				Compound Not Detected.			
93 1,4-Dichlorobenzene	146				Compound Not Detected.			
94 n-Butylbenzene	91				Compound Not Detected.			
95 1,2-Dichlorobenzene	146				Compound Not Detected.			
96 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.			
97 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
98 Hexachlorobutadiene	225				Compound Not Detected.			
99 Naphthalene	128				Compound Not Detected.			
100 1,2,3-Trichlorobenzene	180				Compound Not Detected.			



Mass 83.00
Mass 85.00



**GC/MS VOLATILE
CALIBRATION DATA**

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: 40826D

Instrument ID: HP4

Calibration Date(s): 06/06/00 06/06/00

Heated Purge: (Y/N) N

Calibration Time(s): 1126 1309

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID:		RRF5 =4A40606		RRF20 =4B40606			
RRF50 =4C40606		RRF100=4D40606		RRF200=4E40606			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.119	0.099	0.107	0.110	0.106	0.108	6.7
Chloromethane	* 0.376	0.268	0.272	0.267	0.261	0.289	17.0*
Vinyl Chloride	0.279	0.218	0.234	0.237	0.240	0.242	9.3
Bromomethane	0.035	0.023	0.025	0.028	0.030	0.028	16.2
Chloroethane	0.048	0.034	0.035	0.035	0.035	0.037	16.5
Trichlorofluoromethane	0.088	0.074	0.073	0.076	0.076	0.077	7.8
1,1-Dichloroethene	0.208	0.163	0.165	0.164	0.147	0.169	13.4
Methylene Chloride	0.253	0.197	0.201	0.199	0.185	0.207	12.8
trans-1,2-Dichloroethene	0.256	0.204	0.211	0.214	0.202	0.217	10.1
1,1-Dichloroethane	* 0.447	0.354	0.372	0.375	0.354	0.380	10.1*
cis-1,2-dichloroethene	0.300	0.230	0.247	0.251	0.237	0.253	10.9
Chloroform	0.416	0.326	0.340	0.345	0.323	0.350	10.8
Bromochloromethane	0.131	0.102	0.108	0.110	0.103	0.111	10.6
1,1,1-Trichloroethane	0.324	0.251	0.269	0.276	0.257	0.275	10.5
Carbon Tetrachloride	0.237	0.192	0.209	0.216	0.201	0.211	8.1
1,2-Dichloroethane	0.304	0.233	0.238	0.238	0.210	0.245	14.4
Benzene	1.197	0.941	0.978	0.983	0.895	0.999	11.7
Trichloroethene	0.283	0.228	0.234	0.240	0.223	0.242	10.0
1,2-Dichloropropane	0.286	0.229	0.239	0.243	0.228	0.245	9.7
Bromodichloromethane	0.277	0.220	0.243	0.253	0.237	0.246	8.6
cis-1,3-Dichloropropene	0.405	0.340	0.371	0.386	0.360	0.372	6.6
Toluene	5.783	4.556	4.692	4.648	4.030	4.742	13.5
trans-1,3-Dichloropropene	1.539	1.263	1.368	1.423	1.278	1.374	8.2
1,1,2-Trichloroethane	1.100	0.837	0.874	0.891	0.782	0.897	13.5
Tetrachloroethene	0.899	0.708	0.727	0.748	0.661	0.749	12.0
Dibromochloromethane	0.771	0.633	0.717	0.774	0.716	0.722	7.9
Chlorobenzene	* 3.751	2.862	2.941	2.977	2.639	3.034	13.9*
Ethylbenzene	2.098	1.640	1.670	1.646	1.374	1.686	15.4
Styrene	3.684	3.158	3.387	3.368	2.740	3.267	10.7
Bromoform	* 0.384	0.329	0.398	0.448	0.406	0.393	11.0*
1,1,2,2-Tetrachloroethane	* 0.915	0.720	0.764	0.787	0.677	0.773	11.7*
1,3-Dichlorobenzene	1.823	1.389	1.444	1.373	1.142	1.434	17.2
1,4-Dichlorobenzene	1.874	1.397	1.431	1.406	1.250	1.472	16.0
1,2-Dichlorobenzene	1.633	1.307	1.350	1.336	1.203	1.366	11.7
Dibromomethane	0.151	0.114	0.122	0.123	0.111	0.124	12.6
1,2-Dibromoethane	1.002	0.800	0.842	0.858	0.750	0.850	11.1
1,1,1,2-Tetrachloroethane	0.976	0.777	0.823	0.831	0.709	0.823	11.9

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: 40826D

Instrument ID: HP4

Calibration Date(s): 06/06/00 06/06/00

Heated Purge: (Y/N) N

Calibration Time(s): 1126 1309

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID:		RRF5 =4A40606		RRF20 =4B40606			
RRF50 =4C40606		RRF100=4D40606		RRF200=4E40606			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
1,2,3-Trichloropropane	0.255	0.206	0.216	0.220	0.183	0.216	12.2
1,2-Dibromo-3-chloropropane	0.079	0.094	0.100	0.115	0.099	0.097	13.3
2,2-Dichloropropane	0.320	0.261	0.279	0.286	0.273	0.284	7.8
1,1-Dichloropropene	0.342	0.270	0.284	0.289	0.263	0.290	10.7
1,3-Dichloropropane	1.960	1.522	1.547	1.577	1.375	1.596	13.6
n-Propylbenzene	1.156	0.924	0.963	0.957	0.828	0.966	12.4
Bromobenzene	0.834	0.649	0.711	0.735	0.692	0.724	9.5
1,3,5-Trimethylbenzene	3.222	2.524	2.628	2.599	2.260	2.647	13.3
2-Chlorotoluene	0.956	0.741	0.786	0.785	0.710	0.796	12.0
4-Chlorotoluene	1.021	0.773	0.812	0.793	0.686	0.817	15.2
tert-Butylbenzene	2.825	2.183	2.337	2.337	2.075	2.351	12.2
1,2,4-Trimethylbenzene	3.322	2.617	2.698	2.664	2.291	2.718	13.8
sec-Butylbenzene	4.352	3.430	3.571	3.512	3.030	3.579	13.4
4-Isopropyltoluene	3.520	2.830	2.890	2.771	2.232	2.849	16.1
n-Butylbenzene	3.650	2.874	2.927	2.937	2.659	3.009	12.5
1,2,4-Trichlorobenzene	0.674	0.588	0.623	0.688	0.667	0.648	6.4
Hexachlorobutadiene	0.382	0.301	0.304	0.335	0.351	0.335	10.1
Naphthalene	1.361	1.153	1.263	1.482	1.264	1.305	9.5
1,2,3-Trichlorobenzene	0.517	0.385	0.423	0.476	0.457	0.452	11.2
Acetone	0.069	0.050	0.052	0.052	0.051	0.055	14.5
Carbon Disulfide	0.491	0.499	0.528	0.531	0.478	0.505	4.6
2-Butanone	0.461	0.189	0.151	0.134	0.130	0.213	66.1
4-Methyl-2-Pentanone	0.728	0.799	0.933	1.008	0.978	0.889	13.5
2-Hexanone	0.497	0.529	0.638	0.700	0.660	0.605	14.4
Methyl tert-butyl ether	0.432	0.464	0.498	0.515	0.469	0.476	6.7
Isopropylbenzene	5.748	4.737	4.932	4.810	3.993	4.844	12.9
1,2-Dichloroethene (total)	0.278	0.218	0.229	0.232	0.220	0.235	10.5
Xylenes (total)	2.351	1.914	2.005	1.996	1.682	1.990	12.1
Dibromofluoromethane	0.178	0.202	0.188	0.176	0.166	0.182	7.5
1,2-Dichloroethane-d4	0.195	0.219	0.195	0.185	0.170	0.193	9.2
Toluene-d8	3.761	4.376	3.971	3.806	3.421	3.867	9.0
Bromofluorobenzene	1.533	1.709	1.559	1.457	1.264	1.504	10.8

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

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INITIAL CALIBRATION REPORT

Instrument ID: hp4.1
Lab File ID: 4a40606.d
Analysis Type: WATER

Injection Date: 06-JUN-2000 11:26
Lab Sample ID: vstd5
Method File: /var/chem/hp4.i/40606d.b/8260bh2

COMPOUND	%RSD
=====	=====
Xylenes (total)	12.1
1,2-Dichloroethene (total)	10.5
Dichlorodifluoromethane	6.7
Chloromethane	17.0
Vinyl Chloride	9.3
Bromomethane	16.2
Chloroethane	16.5
Trichlorofluoromethane	7.8
1,1-Dichloroethene	13.4
Carbon Disulfide	4.6
Acetone	14.5
Methylene Chloride	12.8
trans-1,2-Dichloroethene	10.1
Methyl tert-butyl ether	6.7
1,1-Dichloroethane	10.1
2,2-Dichloropropane	7.8
cis-1,2-dichloroethene	10.9
2-Butanone	66.1
Bromochloromethane	10.6
Chloroform	10.8
1,1,1-Trichloroethane	10.5
Dibromofluoromethane	7.5
Carbon Tetrachloride	8.1
1,1-Dichloropropene	10.7
Benzene	11.7
1,2-Dichloroethane-d4	9.2
1,2-Dichloroethane	14.4
Trichloroethene	10.0
1,2-Dichloropropane	9.7
Dibromomethane	12.6
Bromodichloromethane	8.6
cis-1,3-Dichloropropene	6.6
4-Methyl-2-Pentanone	13.5
Toluene-d8	9.0
Toluene	13.5
trans-1,3-Dichloropropene	8.2
1,1,2-Trichloroethane	13.5
Tetrachloroethene	12.0
1,3-Dichloropropane	13.6

663 125

INITIAL CALIBRATION REPORT

Instrument ID: hp4.i
Lab File ID: 4a40606.d
Analysis Type: WATER

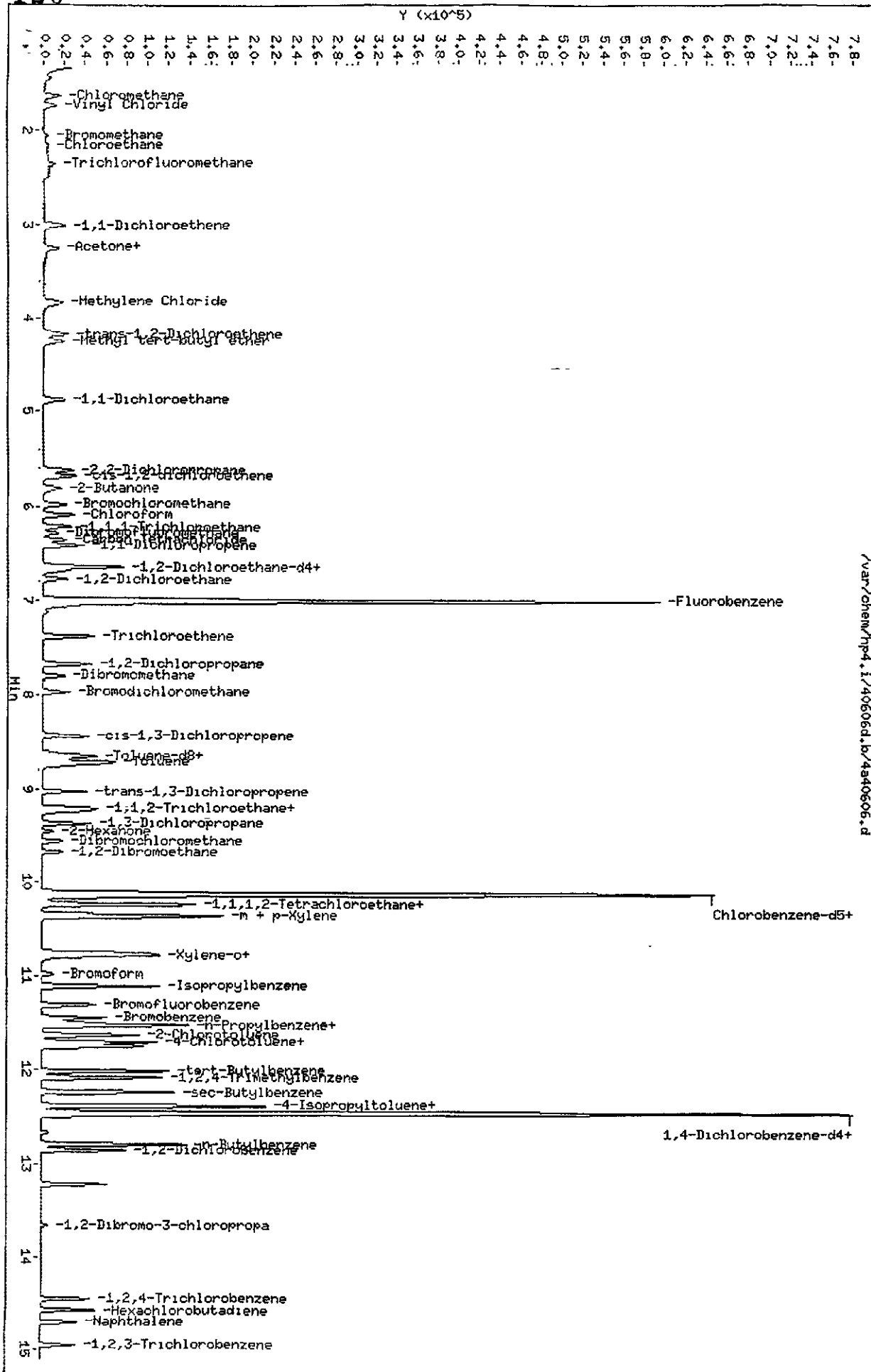
Injection Date: 06-JUN-2000 11:26
Lab Sample ID: vstd5
Method File: /var/chem/hp4.i/40606d.b/8260bh2

COMPOUND	%RSD
2-Hexanone	14.4
Dibromochloromethane	7.9
1,2-Dibromoethane	11.1
Chlorobenzene	13.9
Ethylbenzene	15.4
1,1,1,2-Tetrachloroethane	11.9
m + p-Xylene	17.3
Xylene-o	12.1
Styrene	10.7
Bromoform	11.0
Isopropylbenzene	12.9
Bromofluorobenzene	10.8
Bromobenzene	9.5
1,1,2,2-Tetrachloroethane	11.7
n-Propylbenzene	12.4
1,2,3-Trichloropropane	12.2
2-Chlorotoluene	12.0
1,3,5-Trimethylbenzene	13.3
4-Chlorotoluene	15.2
tert-Butylbenzene	12.2
1,2,4-Trimethylbenzene	13.8
sec-Butylbenzene	13.4
4-Isopropyltoluene	16.1
1,3-Dichlorobenzene	17.2
1,4-Dichlorobenzene	16.0
n-Butylbenzene	12.5
1,2-Dichlorobenzene	11.7
1,2-Dibromo-3-chloropropane	13.3
1,2,4-Trichlorobenzene	6.4
Hexachlorobutadiene	10.1
Naphthalene	9.5
1,2,3-Trichlorobenzene	11.2

The average of all %RSD's in the initial calibration is 12.3

Data File: /var/chem/hp4.1/40606d.b/40606.d
 Date: 06-JUN-2000 11:26
 Client ID: vstd5
 Sample Info: vstd5 5ml
 Volume Injected (ul): 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 16328
 Column diameter: 0.18



Data File: /var/chem/hp4.i/40606d.b/4a40606.d
Report Date: 06-Jun-2000 13:26

Page 1

STL-PITTSBURGH

VOLATILE REPORT SW-846 Method

Data file : /var/chem/hp4.i/40606d.b/4a40606.d
Lab Smp Id: vstd5 Client Smp ID: vstd5
Inj Date : 06-JUN-2000 11:26
Operator : 16328 Inst ID: hp4.i
Smp Info : vstd5 5ml
Misc Info : ,40606d.b
Comment :
Method : /var/chem/hp4.i/40606d.b/8260bh2o.m
Meth Date : 06-Jun-2000 13:26 dudeckk Quant Type: ISTD
Cal Date : 06-JUN-2000 11:26 Cal File: 4a40606.d-
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 3.40
Processing Host: hpuxcs21

K's 6/6/00

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	=====	96	7.001	7.001	(1.000)	698464		
* 69 Chlorobenzene-d5		119	10.124	10.124	(1.000)	160086		
* 92 1,4-Dichlorobenzene-d4		152	12.460	12.460	(1.000)	247278		
\$ 39 Dibromofluoromethane		113	6.285	6.285	(0.898)	12421	25.0000	24.44
\$ 43 1,2-Dichloroethane-d4		65	6.689	6.689	(0.955)	13603	25.0000	25.25
\$ 59 Toluene-d8		98	8.657	8.657	(0.855)	60210	25.0000	24.31
\$ 80 Bromofluorobenzene		95	11.304	11.304	(1.117)	24543	25.0000	25.48
1 Dichlorodifluoromethane		85	1.450	1.450	(0.207)	8306	25.0000	27.52
2 Chloromethane		50	1.639	1.639	(0.234)	26297	25.0000	32.58
3 Vinyl Chloride		62	1.743	1.743	(0.249)	19489	25.0000	28.85
4 Bromomethane		94	2.055	2.055	(0.294)	2437	25.0000	30.88
5 Chloroethane		64	2.165	2.165	(0.309)	3360	25.0000	32.35
6 Trichlorofluoromethane		101	2.354	2.354	(0.336)	6130	25.0000	28.41
12 1,1-Dichloroethene		96	3.002	3.002	(0.429)	14516	25.0000	30.69
13 Acetone		43	3.326	3.326	(0.475)	4819	25.0000	31.47

663 128

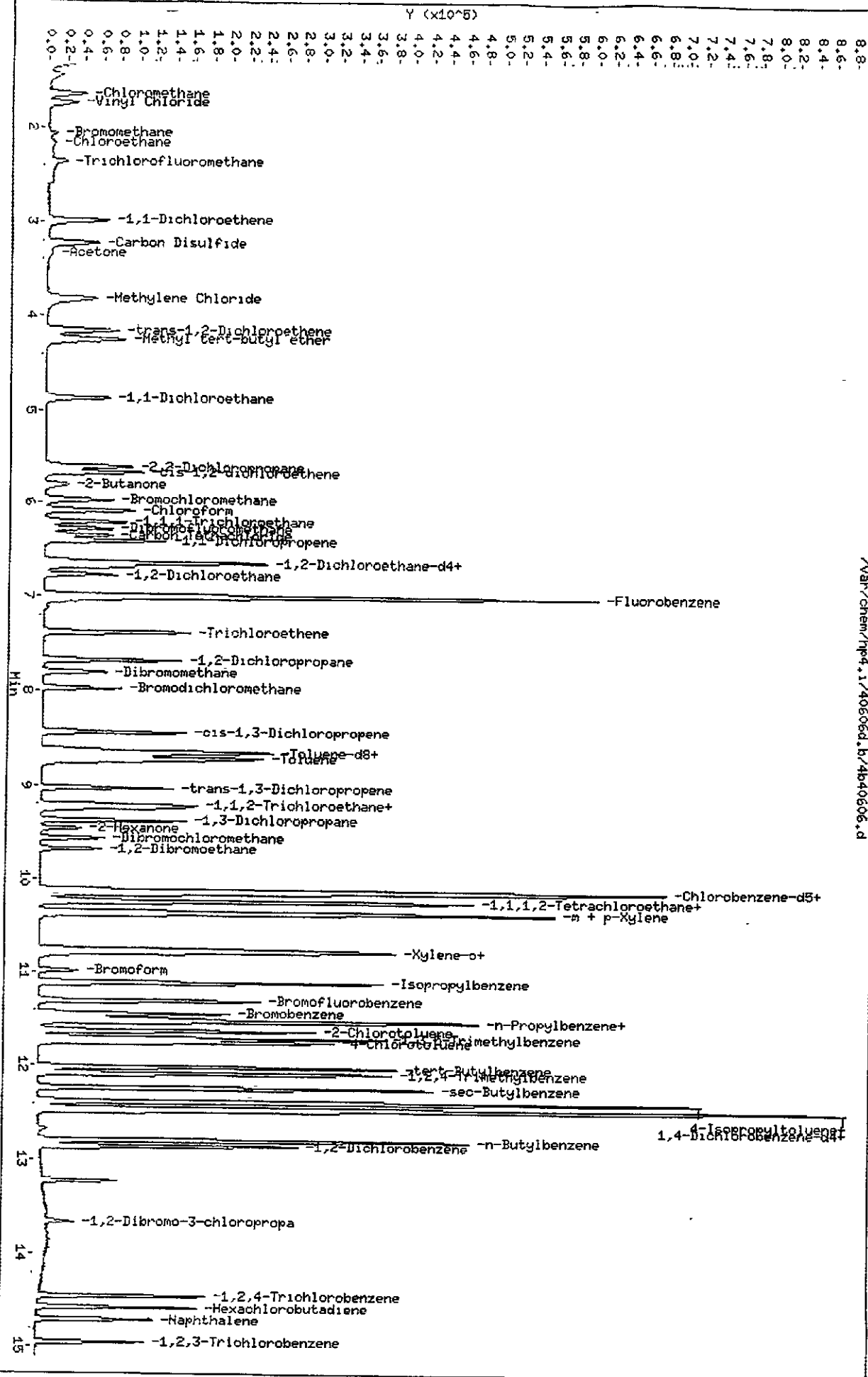
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
15 Carbon Disulfide	76	3 241	3 241	(0.463)	34329	25 0000	24.30
18 Methylene Chloride	84	3 828	3 828	(0.547)	17689	25.0000	30 58
19 trans-1,2-Dichloroethene	96	4.170	4 170	(0.596)	17882	25.0000	29 42
20 Methyl tert-butyl ether	73	4 250	4 250	(0.607)	30209	25 0000	22 73
24 1,1-Dichloroethane	63	4 879	4.879	(0.697)	31234	25 0000	29.39
27 2,2 Dichloropropane	77	5 619	5 619	(0.803)	22381	25.0000	28.21
28 cis-1,2 dichloroethene	96	5 680	5.680	(0.811)	20995	25.0000	29 68
M 29 1,2-Dichloroethene (total)	100				38877	50 0000	59 12
30 Bromochloromethane	128	5 980	5 980	(0.854)	9148	25 0000	29.53
31 2-Butanone	43	5 808	5 808	(0.830)	32231	25.0000	54 14
37 Chloroform	83	6 090	6 090	(0.870)	29027	25.0000	29 69
38 1,1,1-Trichloroethane	97	6.218	6 218	(0.888)	22659	25 0000	29 42
40 1,1-Dichloropropene	75	6 414	6 414	(0.916)	23867	25 0000	29 49
41 Carbon Tetrachloride	117	6 359	6 359	(0.908)	16556	25.0000	28 07
42 Benzene	78	6.646	6.646	(0.949)	83639	25 0000	29.97
45 1,2-Dichloroethane	62	6.774	6 774	(0.968)	21234	25 0000	31 08
47 Trichloroethene	130	7 380	7 380	(1.054)	19773	25.0000	29 30
49 1,2-Dichloropropane	63	7 673	7 673	(1.096)	19963	25.0000	29.18
50 Dibromomethane	93	7.795	7 795	(1.114)	10528	25 0000	30.30
53 Bromodichloromethane	83	7 966	7 966	(1.138)	19356	25.0000	28.15
57 cis-1,3-Dichloropropene	75	8 437	8 437	(1.205)	28262	25.0000	27 16
58 4-Methyl-2 Pentanone	43	8 621	8 621	(0.851)	11660	25.0000	20 48
60 Toluene	91	8.718	8 718	(0.861)	92578	25 0000	30.49
61 trans-1,3-Dichloropropene	75	9 030	9 030	(0.892)	24643	25.0000	28.00
63 1,3-Dichloropropane	76	9 379	9 379	(0.926)	31380	25.0000	30 70
64 1,1,2-Trichloroethane	97	9 207	9.207	(0.909)	17614	25 0000	30 67
65 Tetrachloroethene	164	9 238	9 238	(0.912)	14389	25 0000	30 02
66 2-Hexanone	43	9 458	9.458	(0.934)	7963	25 0000	20.56
67 Dibromochloromethane	129	9 562	9.562	(0.944)	12338	25.0000	26 68
68 1,2-Dibromoethane	107	9 678	9 678	(0.956)	16041	25 0000	29 45
70 Chlorobenzene	112	10 149	10 149	(1.002)	60054	25 0000	30.91
71 1,1,1,2-Tetrachloroethane	131	10 241	10.241	(1.011)	15619	25 0000	29.62
72 Ethylbenzene	106	10.241	10.241	(1.011)	33579	25 0000	31 11
73 m + p-Xylene	106	10 363	10 363	(1.024)	81266	50 0000	63 22
74 Xylene o	106	10 754	10 754	(1.062)	37635	25 0000	29.54
M 75 Xylenes (total)	106				118901	25 0000	93 34
76 Styrene	104	10.779	10 779	(1.065)	58977	25.0000	28 19
77 Bromoform	173	10.980	10 980	(1.085)	6143	25 0000	24 41
78 Isopropylbenzene	105	11 109	11 109	(1.097)	92015	25 0000	29 66
79 Bromobenzene	156	11.445	11 445	(0.919)	20623	25 0000	28 78
81 n-Propylbenzene	120	11.518	11 518	(0.924)	28596	25 0000	29 94
82 2-Chlorotoluene	126	11 628	11 628	(0.933)	23644	25 0000	30 05
83 1,1,2,2-Tetrachloroethane	83	11 488	11 488	(0.922)	22626	25.0000	29.61
84 1,2,3-Trichloropropane	110	11.537	11 537	(0.926)	6316	25 0000	29 57
85 4 Chlorotoluene	126	11.751	11 751	(0.943)	25254	25 0000	31 25
86 1,3,5-Trimethylbenzene	105	11 708	11 708	(0.940)	79680	25 0000	30 44
87 tert-Butylbenzene	119	12 014	12 014	(0.964)	69851	25 0000	30 03

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ng)	(ng)
=====	----	==	-----	-----	-----	-----	-----	
88 1,2,4 Trimethylbenzene	105	12.081	12.081	{0 970}	82149	25 0000	30 55	
89 sec-Butylbenzene	105	12 240	12 240	{0 982}	107623	25 0000	30 40	
90 4-Isopropyltoluene	119	12 386	12 386	{0 994}	87049	25 0000	30 90	
91 1,3-Dichlorobenzene	146	12.386	12 386	{0 994}	45082	25 0000	31 78	
93 1,4-Dichlorobenzene	146	12 478	12 478	{1 001}	46351	25 0000	31 84	
94 n-Butylbenzene	91	12 796	12 796	{1 027}	90255	25 0000	30.32	
95 1,2-Dichlorobenzene	146	12 857	12 857	{1 032}	40377	25 0000	29.88	
96 1,2 Dibromo-3-chloropropane	157	13.658	13 658	{1 096}	1958	25 0000	20 28	
97 1,2,4-Trichlorobenzene	180	14 459	14 459	{1 160}	16659	25 0000	25 98	
98 Hexachlorobutadiene	225	14.581	14 581	{1 170}	9443	25 0000	28.52	
99 Naphthalene	128	14.710	14.710	{1 181}	33666	25 0000	26 08	
100 1,2,3-Trichlorobenzene	180	14 960	14 960	{1 201}	12794	25 0000	28 63	

Data File: /var/chem/hp4.1/40606d.b/4b40606.d
 Date: 06-JUN-2000 11:53
 Client ID: vst020
 Sample Info: vst020 5ml
 Volume Injected (ul): 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 16328
 Column diameter: 0.18

/var/chem/hp4.1/40606d.b/4b40606.d



Data File: /var/chem/hp4.i/40606d.b/4b40606.d
Report Date: 06-Jun-2000 13:26

STL-PITTSBURGH

VOLATILE REPORT SW-846 Method

Data file : /var/chem/hp4.i/40606d.b/4b40606.d
Lab Smp Id: vstd20 Client Smp ID: vstd20
Inj Date : 06-JUN-2000 11:53
Operator : 16328 Inst ID: hp4.i
Smp Info : vstd20 5ml
Misc Info : ,40606d.b
Comment :
Method : /var/chem/hp4.i/40606d.b/8260bh2o.m
Meth Date : 06-Jun-2000 13:26 dudeckk Quant Type: ISTD
Cal Date : 06-JUN-2000 11:26 Cal File: 4a40606.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 3.40
Processing Host: hpuxcs21

K_c/K_d

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6 998	6 998	(1 000)	713945		
* 69 Chlorobenzene-d5	119	10 122	10 122	(1 000)	164774		
* 92 1,4-Dichlorobenzene-d4	152	12 458	12 458	(1.000)	262689		
\$ 39 Dibromofluoromethane	113	6.283	6.283	(0.898)	57610	100 000	110.9
\$ 43 1,2-Dichloroethane-d4	65	6 687	6 687	(0 955)	62567	100 000	113.6
\$ 59 Toluene d8	98	8 649	8.649	(0.854)	288413	100 000	113 2
\$ 80 Bromofluorobenzene	95	11.308	11 308	(1 117)	112625	100 000	113 6
1 Dichlorodifluoromethane	85	1.448	1.448	(0 207)	28300	100 000	91.75
2 Chloromethane	50	1 649	1.649	(0 236)	76585	100.000	92.82
3 Vinyl Chloride	62	1 747	1 747	(0.250)	62195	100.000	90 07
4 Bromomethane	94	2 065	2 065	(0 295)	6667	100 000	82.65
5 Chloroethane	64	2.157	2 157	(0 308)	9568	100 000	90.13
6 Trichlorofluoromethane	101	2 358	2 358	(0 337)	21049	100.000	95 44
12 1,1-Dichloroethene	96	2 988	2 988	(0.427)	46664	100 000	96 51
13 Acetone	43	3 337	3 337	(0.477)	14321	100 000	91 50

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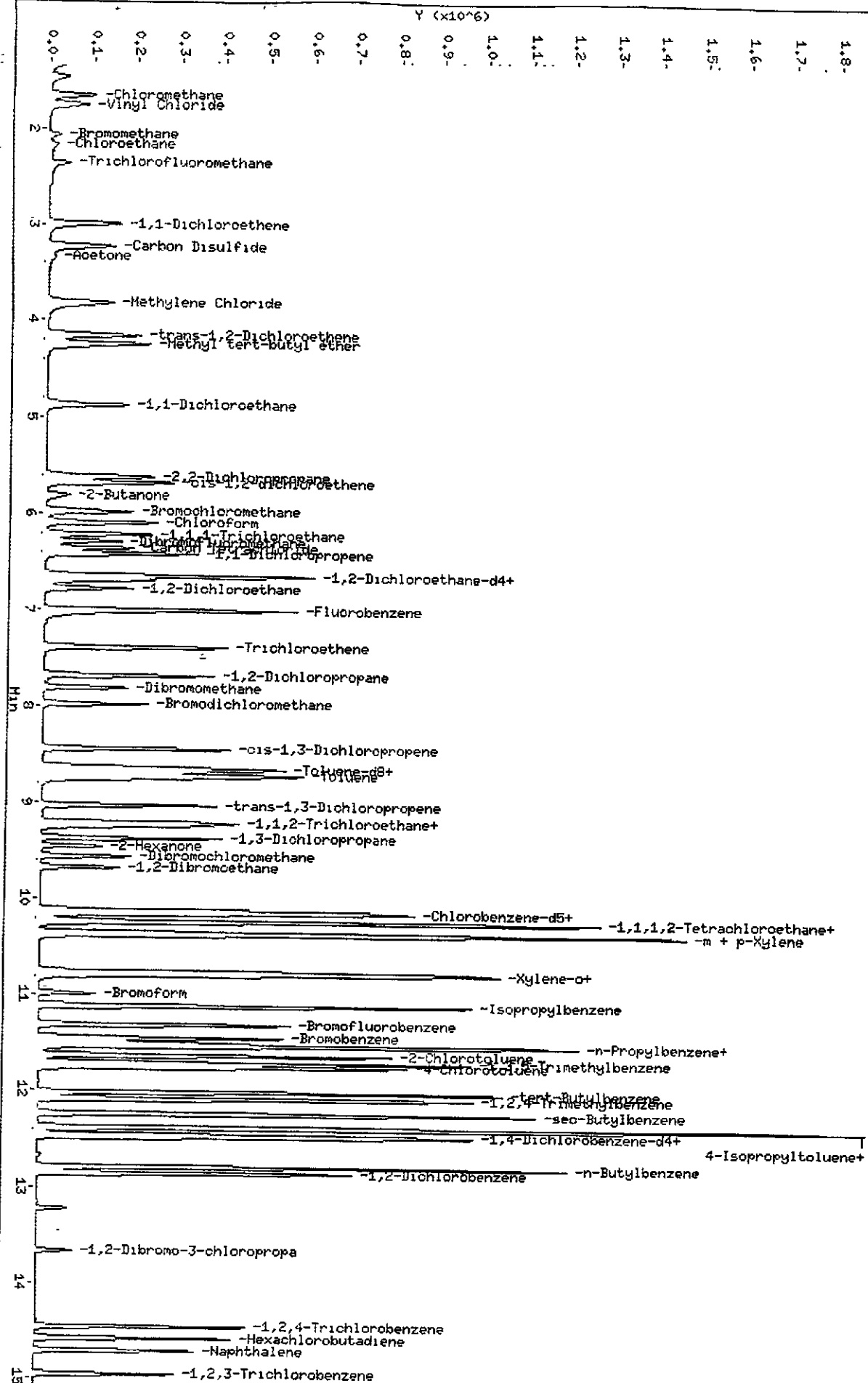
Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====
15 Carbon Disulfide	76	3 227	3 227 (0.461)	142555	100.000	98 73
18 Methylene Chloride	84	3 820	3 820 (0.546)	56237	100 000	95 11
19 trans-1,2-Dichloroethene	96	4 156	4.156 (0.594)	58420	100 000	94 02
20 Methyl tert-butyl ether	73	4 247	4 247 (0.607)	132372	100.000	97.45
24 1,1-Dichloroethane	63	4 871	4 871 (0.696)	100985	100.000	92 97
27 2,2 Dichloropropane	77	5 611	5 611 (0.802)	74657	100 000	92 07
28 cis-1,2-dichloroethene	96	5 678	5.678 (0.811)	65848	100 000	91 07
M 29 1,2-Dichloroethene (total)	100			124268	200.000	184 9
30 Bromochloromethane	128	5 978	5 978 (0.854)	29082	100.000	91.85
31 2-Butanone	43	5 806	5 806 (0.830)	53969	100 000	88 69
37 Chloroform	83	6.088	6.088 (0.870)	93226	100 000	93.28
38 1,1,1-Trichloroethane	97	6 210	6 210 (0.887)	71717	100 000	91.11
40 1,2 Dichloropropene	75	6 412	6 412 (0.916)	77215	100 000	93 35
41 Carbon Tetrachloride	117	6.357	6 357 (0.908)	54948	100 000	91 14
42 Benzene	78	6.644	6.644 (0.949)	268831	100 000	94 24
45 1,2-Dichloroethane	62	6 772	6 772 (0.968)	66588	100.000	95.37
47 Trichloroethene	130	7 378	7 378 (1.054)	65077	100.000	94 34
49 1,2-Dichloropropane	63	7.671	7 671 (1.096)	65468	100 000	93 61
50 Dibromomethane	93	7.799	7.799 (1.114)	32677	100 000	92.01
53 Bromodichloromethane	83	7 971	7.971 (1.139)	62777	100 000	89 33
57 cis-1,3-Dichloropropene	75	8 435	8 435 (1.205)	97213	100 000	91 41
58 4 Methyl-2-Pentanone	43	8 619	8.619 (0.851)	52672	100 000	89 87
60 Toluene	91	8.716	8.716 (0.861)	300316	100 000	96 09
61 trans-1,3-Dichloropropene	75	9 028	9.028 (0.892)	83269	100 000	91 92
63 1,3-Dichloropropane	76	9 377	9 377 (0.926)	100317	100 000	95 34
64 1,1,2-Trichloroethane	97	9 205	9 205 (0.909)	55179	100.000	93 34
65 Tetrachloroethene	164	9.236	9.236 (0.912)	46657	100 000	94 57
66 2-Hexanone	43	9.462	9.462 (0.935)	34867	100 000	87 45
67 Dibromochloromethane	129	9 566	9 566 (0.945)	41748	100 000	87 70
68 1,2 Dibromoethane	107	9 682	9 682 (0.957)	52732	100 000	94 07
70 Chlorobenzene	112	10.153	10.153 (1.003)	188666	100 000	94 34
71 1,1,1,2-Tetrachloroethane	131	10.239	10.239 (1.011)	51215	100 000	94 37
72 Ethylbenzene	106	10 232	10 232 (1.011)	108106	100 000	97 31
73 m + p-Xylene	106	10 361	10 361 (1.024)	261213	200 000	197 4
74 Xylene o	106	10.752	10.752 (1.062)	126139	100 000	96.20
M 75 Xylenes (total)	106			387352	100 000	295 4
76 Styrene	104	10 783	10.783 (1.065)	208171	100 000	96 66
77 Bromoform	173	10 984	10 984 (1.085)	21664	100 000	83 64
78 Isopropylbenzene	105	11 107	11 107 (1.097)	312212	100 000	97 79
79 Bromobenzene	156	11.443	11 443 (0.919)	68222	100 000	89 64
81 n-Propylbenzene	120	11 522	11.522 (0.925)	97042	100 000	95 63
82 2-Chlorotoluene	126	11 626	11 626 (0.933)	77845	100 000	93.13
83 1,1,2,2-Tetrachloroethane	83	11 486	11 486 (0.922)	75655	100 000	93.19
84 1,2,3-Trichloropropane	110	11.535	11.535 (0.926)	21629	100 000	95 31
85 4 Chlorotoluene	126	11.749	11.749 (0.943)	81239	100 000	94 62
86 1,3,5-Trimethylbenzene	105	11 706	11.706 (0.940)	265220	100 000	95.37
87 tert-Butylbenzene	119	12 018	12 018 (0.965)	229420	100 000	92.84

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
88 1,2,4-Trimethylbenzene	105	12 079	12 079	(0.970)	274962	100 000	96 26
89 sec-Butylbenzene	105	12 238	12 238	(0.982)	360378	100 000	95.83
90 4 Isopropyltoluene	119	12 384	12 384	(0.994)	297317	100 000	99 33
91 1,3-Dichlorobenzene	146	12.384	12.384	(0.994)	145913	100 000	96 83
93 1,4-Dichlorobenzene	146	12 482	12 482	(1.002)	146826	100 000	94.94
94 n-Butylbenzene	91	12 794	12 794	(1.027)	301969	100 000	95.49
95 1,2-Dichlorobenzene	146	12 855	12 855	(1.032)	137355	100 000	95.70
96 1,2 Dibromo-3-chloropropane	157	13.662	13 662	(1.097)	9908	100 000	96 58
97 1,2,4-Trichlorobenzene	180	14 457	14 457	(1.160)	61836	100 000	90 78
98 Hexachlorobutadiene	225	14 579	14 579	(1.170)	31657	100 000	90 01
99 Naphthalene	128	14 713	14 713	(1.181)	121189	100 000	88.39
100 1,2,3 Trichlorobenzene	180	14.958	14 958	(1.201)	40464	100 000	85 23

Data File: /var/chem/hp4.1/40606d.b/4040606.d
 Date : 06-JUN-2000 12:18
 Client ID: vsta50
 Sample Info: vsta50 Em1
 Volume Injected (uL): 5.0
 Column phase: DB 624

/var/chem/hp4.1/40606d.b/4040606.d

Instrument: hp4.1
 Operator: 16328
 Column diameter: 0.18



STL-PITTSBURGH

VOLATILE REPORT SW-846 Method

Data file : /var/chem/hp4.i/40606d.b/4c40606.d
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 06-JUN-2000 12:18
Operator : 16328 Inst ID: hp4.i
Smp Info : vstd50 5ml
Misc Info : ,40606d.b
Comment :
Method : /var/chem/hp4.i/40606d.b/8260bh2o.m
Meth Date : 06-Jun-2000 13:26 dudeckk Quant Type: ISTD
Cal Date : 06-JUN-2000 11:26 Cal File: 4a40606.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 3.40
Processing Host: hpuxcs21

Kc/d/w

Concentration Formula: Amt * DF * (Vf/Vo)/V1

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
V1	5.000	Purge Volume

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL AMT (ng)	ON-COL (ng)
*****	====	==	=====	=====	=====	=====	
* 46 Fluorobenzene	96	6.998	6.998	(1.000)	726635		
* 69 Chlorobenzene-d5	119	10.122	10.122	(1.000)	170871		
* 92 1,4-Dichlorobenzene-d4	152	12.457	12.457	(1.000)	265089		
\$ 39 Dibromofluoromethane	113	6.289	6.289	(0.899)	136662	250.000	258.4
\$ 43 1,2-Dichloroethane-d4	65	6.686	6.686	(0.955)	141498	250.000	252.5
\$ 59 Toluene-d8	98	8.655	8.655	(0.855)	678594	250.000	256.7
\$ 80 Bromofluorobenzene	95	11.308	11.308	(1.117)	266355	250.000	259.0
1 Dichlorodifluoromethane	85	1.453	1.453	(0.208)	77470	250.000	246.8
2 Chloromethane	50	1.649	1.649	(0.236)	197770	250.000	235.5
3 Vinyl Chloride	62	1.741	1.741	(0.249)	170377	250.000	242.4
4 Bromomethane	34	2.065	2.065	(0.295)	18065	250.000	220.0
5 Chloroethane	64	2.163	2.163	(0.309)	25199	250.000	233.2
6 Trichlorofluoromethane	101	2.358	2.358	(0.337)	52886	250.000	235.6
12 1,1-Dichloroethene	96	2.994	2.994	(0.428)	119649	250.000	243.1
13 Acetone	43	3.349	3.349	(0.478)	37818	250.000	237.4

Report Date: 06-Jun-2000 13:27

663 136

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
15 Carbon Disulfide	76	3 232	3 232	(0.462)	383961	250 000	261 3
18 Methylene Chloride	84	3 819	3 819	(0.546)	145986	250 000	242 6
19 trans-1,2-Dichloroethene	96	4.162	4 162	(0.595)	153324	250 000	242 5
20 Methyl tert butyl ether	73	4.247	4 247	(0.607)	362279	250 000	262 0
24 1,1-Dichloroethane	63	4 877	4 877	(0.697)	270168	250.000	244 4
27 2,2-Dichloropropane	77	5 617	5.617	(0.803)	202514	250.000	245 4
28 cis-1,2 dichloroethene	96	5.678	5 678	(0.811)	179199	250 000	243 5
M 29 1,2-Dichloroethene (total)	100				332523	500 000	486 0
30 Bromochloromethane	128	5 983	5 983	(0.855)	78659	250 000	244 1
31 2-Butanone	43	5 812	5.812	(0.831)	109703	250 000	177.1
37 Chloroform	83	6 093	6.093	(0.871)	246766	250 000	242 6
38 1,1,1 Trichloroethane	97	6 216	6 216	(0.888)	195793	250 000	244 4
40 1,1-Dichloropropene	75	6.411	6 411	(0.916)	206556	250.000	245.4
41 Carbon Tetrachloride	117	6 356	6 356	(0.908)	151879	250 000	247.5
42 Benzene	78	6.644	6.644	(0.949)	710932	250 000	244 9
45 1,2-Dichloroethane	62	6.772	6.772	(0.968)	172761	250 000	243 1
47 Trichloroethene	130	7 383	7 383	(1.055)	169808	250.000	241 9
49 1,2-Dichloropropane	63	7 671	7 671	(1.096)	173794	250 000	244 2
50 Dibromomethane	93	7 799	7 799	(1.114)	89044	250 000	246 3
53 Bromodichloromethane	83	7 970	7.970	(1.139)	176885	250 000	247 3
57 cis-1,3-Dichloropropene	75	8 435	8 435	(1.205)	269631	250 000	249.1
58 4-Methyl-2-Pentanone	43	8 618	8 618	(0.851)	159465	250 000	262.4
60 Toluene	91	8 716	8 716	(0.861)	801711	250 000	247 4
61 trans-1,3-Dichloropropene	75	9 028	9.028	(0.892)	233736	250 000	248.8
63 1,3-Dichloropropane	76	9 376	9 376	(0.926)	264361	250 000	242.3
64 1,1,2-Trichloroethane	97	9 211	9 211	(0.910)	149402	250 000	243 7
65 Tetrachloroethene	164	9.242	9.242	(0.913)	124169	250 000	242 7
66 2-Hexanone	43	9.456	9.456	(0.934)	109074	250 000	263 8
67 Dibromochloromethane	129	9 566	9 566	(0.945)	122505	250.000	248.2
68 1,2-Dibromoethane	107	9 682	9 682	(0.957)	143948	250 000	247 6
70 Chlorobenzene	112	10.153	10 153	(1.003)	502582	250 000	242 3
71 1,1,1,2-Tetrachloroethane	131	10.244	10.244	(1.012)	140698	250 000	250.0
72 Ethylbenzene	106	10 238	10 238	(1.011)	285339	250.000	247 7
73 m + p-Xylene	106	10 361	10 361	(1.024)	690683	500 000	503 4
74 Xylene-o	106	10 758	10 758	(1.063)	342541	250 000	251.9
M 75 Xylenes (total,	106				1033224	250.000	759 9
76 Styrene	104	10.782	10.782	(1.065)	578786	250 000	259 2
77 Bromoform	173	10 984	10 984	(1.085)	68068	250 000	253 4
78 Isopropylbenzene	105	11 106	11 106	(1.097)	842711	250 000	254.5
79 Bromobenzene	156	11 449	11 449	(0.919)	188559	250 000	245.5
81 n-Propylbenzene	120	11.522	11.522	(0.925)	255228	250.000	249.2
82 2-Chlorotoluene	126	11 632	11 632	(0.934)	208404	250 000	247 1
83 1,1,2,2 Tetrachloroethane	83	11 485	11 485	(0.922)	202413	250 000	247.1
84 1,2,3-Trichloropropane	110	11 534	11 534	(0.926)	57138	250 000	249.5
85 4-Chlorotoluene	126	11.748	11.748	(0.943)	215285	250.000	248.5
86 1,3,5-Trimethylbenzene	105	11 705	11.705	(0.940)	696619	250 000	248 2
87 tert-Butylbenzene	119	12 017	12 017	(0.965)	619640	250 000	248 5

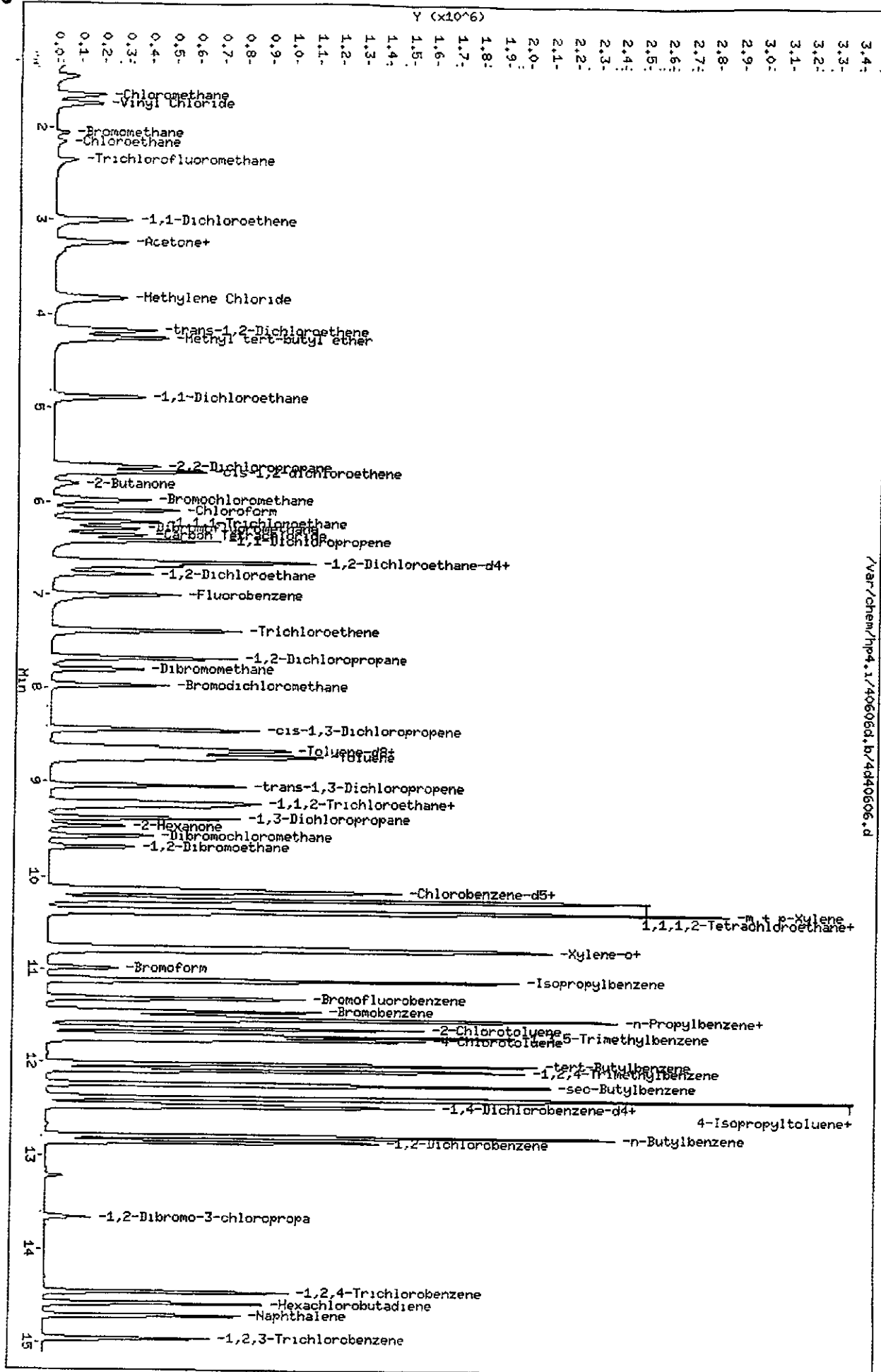
663 137

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
88 1,2,4 Trimethylbenzene	105	12.084	12.084	(0.970)	715351	250.000	248.2
89 sec-Butylbenzene	105	12.237	12.237	(0.982)	946530	250.000	249.4
90 4-Isopropyltoluene	119	12.384	12.384	(0.994)	766024	250.000	253.6
91 1,3-Dichlorobenzene	146	12.384	12.384	(0.994)	382769	250.000	251.7
93 1,4-Dichlorobenzene	146	12.482	12.482	(1.002)	379253	250.000	243.0
94 n-Butylbenzene	91	12.794	12.794	(1.027)	776005	250.000	243.2
95 1,2-Dichlorobenzene	146	12.855	12.855	(1.032)	358029	250.000	247.2
96 1,2-Dibromo-3-chloropropane	157	13.662	13.662	(1.097)	26552	250.000	256.5
97 1,2,4 Trichlorobenzene	180	14.463	14.463	(1.161)	165280	250.000	240.4
98 Hexachlorobutadiene	225	14.579	14.579	(1.170)	80652	250.000	227.2
99 Naphthalene	128	14.713	14.713	(1.181)	334725	250.000	241.9
100 1,2,3-Trichlorobenzene	180	14.958	14.958	(1.201)	112149	250.000	234.1

Data File: /var/chem/hp4.1/40606d.b/440606.d
 Date: 06-JUN-2000 12:42
 Client ID: vstd100
 Sample Info: vstd100 5ml
 Volume Injected (ul): 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 16328
 Column diameter: 0.18

/var/chem/hp4.1/40606d.b/440606.d



STL-PITTSBURGH

VOLATILE REPORT SW-846 Method

Data file : /var/chem/hp4.i/40606d.b/4d40606.d
Lab Smp Id: vstd100 Client Smp ID: vstd100
Inj Date : 06-JUN-2000 12:42
Operator : 16328 Inst ID: hp4.i
Smp Info : vstd100 5ml
Misc Info : ,40606d.b
Comment :
Method : /var/chem/hp4.i/40606d.b/8260bh2o.m
Meth Date : 06-Jun-2000 13:27 dudeckk Quant Type: ISTD
Cal Date : 06-JUN-2000 11:26 Cal File: 4a40606.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 3.40
Processing Host: hpuxcs21

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	----	==	=====	=====	-----	-----	-----
* 46 Fluorobenzene	96	7 001	7 001	(1.000)	745026		
* 69 Chlorobenzene d5	119	10 125	10 125	(1.000)	174098		
* 92 1,4 Dichlorobenzene d4	152	12 461	12.461	(1.000)	260775		
\$ 39 Dibromofluoromethane	113	6.286	6.286	(0.898)	262437	500.000	484 0
\$ 43 1,2 Dichloroethane d4	65	6 690	6 690	(0.955)	275963	500 000	480 3
\$ 59 Toluene-d8	98	8 652	8 652	(0.854)	1325209	500 000	492 1
\$ 80 Bromofluorobenzene	95	11.311	11.311	(1.117)	507190	500 000	484 1
1 Dichlorodifluoromethane	85	1 450	1.450	(0.207)	163690	500.000	508 5
2 Chloromethane	50	1 652	1 652	(0.236)	398018	500 000	462 3
3 Vinyl Chloride	62	1 744	1 744	(0.249)	353867	500 000	491 1
4 Bromomethane	94	2 062	2 062	(0.294)	41525	500 000	493 3
5 Chloroethane	64	2.160	2.160	(0.308)	51622	500 000	466.0
6 Trichlorofluoromethane	101	2 361	2 361	(0.337)	112567	500 000	489.1
12 1,1-Dichloroethene	96	3 003	3 003	(0.429)	243830	500 000	483 2
13 Acetone	43	3 333	3 333	(0.476)	77513	500 000	474 6

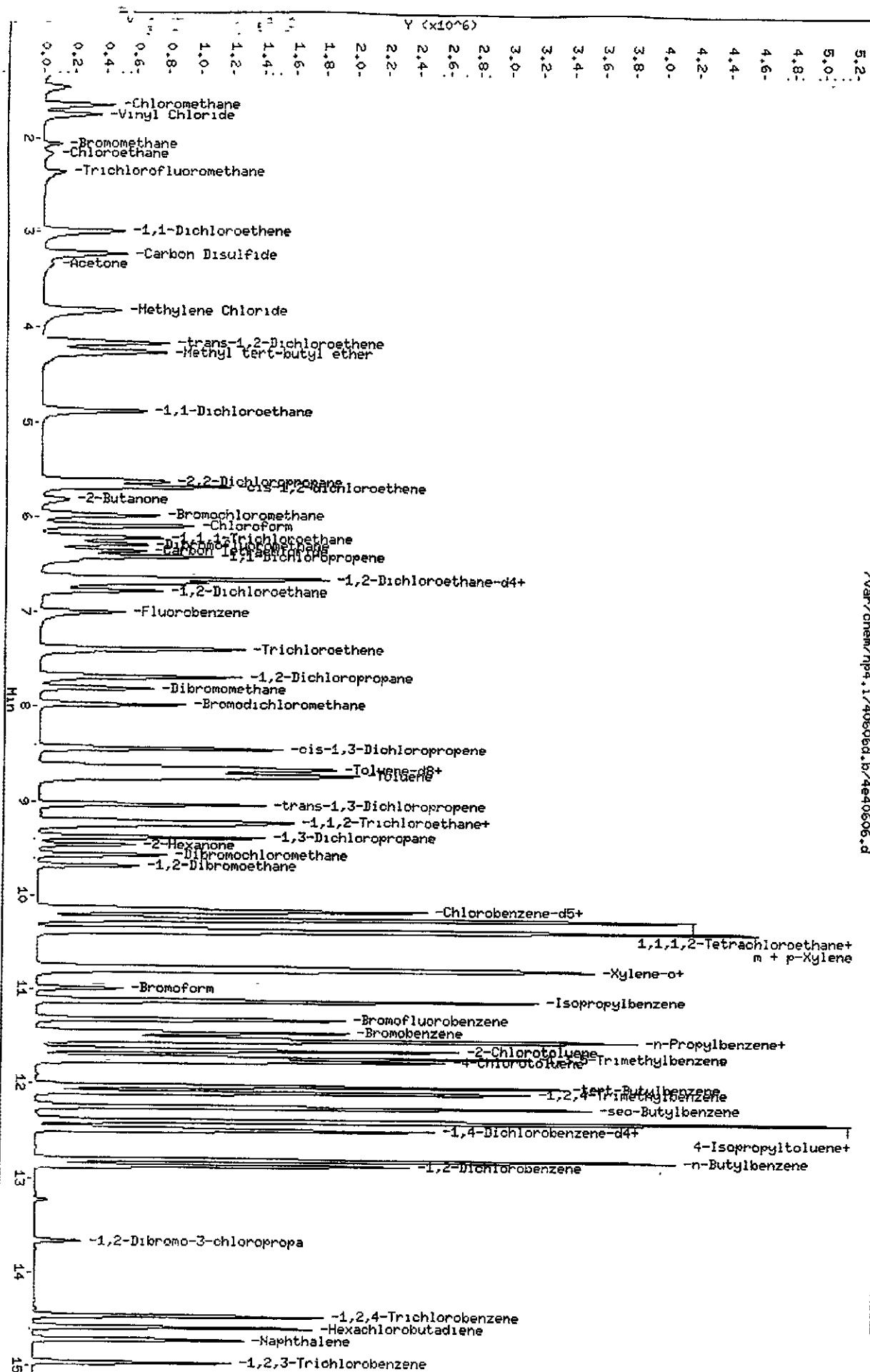
Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	====	==	=====	=====	=====	=====
15 Carbon Disulfide	76	3 242	3 242 (0 463)	790980	500 000	525.0
18 Methylene Chloride	84	3 822	3 822 (0 546)	296636	500 000	480 8
19 trans-1,2 Dichloroethene	96	4 165	4 165 (0 595)	318507	500 000	491 2
20 Methyl tert butyl ether	73	4 250	4 250 (0 607)	766930	500.000	541 1
24 1,1-Dichloroethane	63	4 880	4 880 (0 697)	558364	500.000	492.6
27 2,2-Dichloropropane	77	5 620	5 620 (0 803)	426060	500 000	503 5
28 cis 1,2-dichloroethene	96	5 681	5 681 (0 811)	374402	500 000	496 2
M 29 1,2-Dichloroethene (total)	100			692909	1000 00	987 8
30 Bromochloromethane	128	5 980	5 980 (0 854)	163682	500 000	495.4
31 2 Butanone	43	5.809	5.809 (0 830)	200399	500 000	315 6
37 Chloroform	83	6 090	6 090 (0 870)	514240	500 000	493 0
38 1,1,1-Trichloroethane	97	6 219	6 219 (0.888)	411509	500.000	501 0
40 1,1-Dichloropropene	75	6 414	6 414 (0 916)	430454	500 000	498 7
41 Carbon Tetrachloride	117	6 359	6 359 (0 908)	322357	500.000	512 4
42 Benzene	78	6 647	6 647 (0.949)	1464299	500 000	491.9
45 1,2-Dichloroethane	62	6.775	6 775 (0.968)	354464	500.000	486.5
47 Trichloroethene	130	7 386	7 386 (1 055)	357698	500 000	496 9
49 1,2 Dichloropropane	63	7 674	7 674 (1 096)	361701	500 000	495 6
50 Dibromomethane	93	7 796	7 796 (1.113)	183337	500.000	494 7
53 Bromodichloromethane	83	7.967	7.967 (1 138)	376548	500 000	513 4
57 cis-1,3-Dichloropropene	75	8.438	8 438 (1 205)	574516	500 000	517 7
58 4 Methyl-2-Pentanone	43	8 621	8 621 (0 851)	350986	500 000	566 8
60 Toluene	91	8 719	8 719 (0 861)	1618296	500.000	490.1
61 trans-1,3-Dichloropropene	75	9.031	9 031 (0 892)	495569	500 000	517.8
63 1,3-Dichloropropane	76	9.379	9.379 (0 926)	549128	500 000	494 0
64 1,1,2-Trichloroethane	97	9 208	9 208 (0 909)	310195	500.000	496.6
65 Tetrachloroethene	164	9.239	9 239 (0 912)	260364	500.000	499.5
66 2-Hexanone	43	9.459	9.459 (0 934)	243744	500 000	578 6
67 Dibromochloromethane	129	9.569	9.569 (0 945)	269388	500 000	535 6
68 1,2 Dibromoethane	107	9 679	9 679 (0.956)	298846	500.000	504 6
70 Chlorobenzene	112	10 156	10 156 (1.003)	1036501	500 000	490.5
71 1,1,1,2-Tetrachloroethane	131	10.241	10 241 (1 011)	289484	500 000	504 8
72 Ethylbenzene	106	10.235	10.235 (1 011)	573240	500 000	488 4
73 m + p-Xylene	106	10 364	10.364 (1.024)	1344023	1000 00	961.4
74 Xylene o	106	10 755	10 755 (1 062)	694940	500.000	501.6
M 75 Xylenes (total)	106			2038963	500 000	1472
76 Styrene	104	10.785	10.785 (1 065)	1172818	500 000	515 4
77 Bromoform	173	10.981	10 981 (1.085)	155921	500.000	569.7
78 Isopropylbenzene	105	11 109	11 109 (1 097)	1674721	500 000	496.5
79 Bromobenzene	156	11 446	11.446 (0 919)	383204	500 000	507.2
81 n-Propylbenzene	120	11.525	11.525 (0 925)	499384	500 000	495.7
82 2-Chlorotoluene	126	11 635	11 635 (0 934)	409269	500 000	493.2
83 1,1,2,2-Tetrachloroethane	83	11 489	11 489 (0 922)	410671	500 000	509 6
84 1,2,3 Trichloropropane	110	11 537	11 537 (0 926)	114746	500 000	509 4
85 4-Chlorotoluene	126	11 751	11 751 (0 943)	413800	500 000	485.5
86 1,3,5-Trimethylbenzene	105	11 709	11 709 (0 940)	1355604	500 000	491.0
87 tert-Butylbenzene	119	12 014	12 014 (0.964)	1219099	500 000	497 0

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
88 1,2,4 Trimethylbenzene	105	12.081	12.081	(0.970)	1389420	500.000	490.0
89 sec-Butylbenzene	105	12.240	12.240	(0.982)	1831646	500.000	490.6
90 4 Isopropyltoluene	119	12.387	12.387	(0.994)	1445300	500.000	486.4
91 1,3-Dichlorobenzene	146	12.381	12.381	(0.994)	715958	500.000	478.6
93 1,4-Dichlorobenzene	146	12.485	12.485	(1.002)	733582	500.000	477.8
94 n-Butylbenzene	91	12.797	12.797	(1.027)	1531697	500.000	487.9
95 1,2-Dichlorobenzene	146	12.858	12.858	(1.032)	697072	500.000	489.2
96 1,2-Dibromo-3-chloropropane	157	13.659	13.659	(1.096)	60101	500.000	590.1
97 1,2,4 Trichlorobenzene	180	14.460	14.460	(1.160)	359017	500.000	531.0
98 Hexachlorobutadiene	225	14.582	14.582	(1.170)	174599	500.000	500.1
99 Naphthalene	128	14.710	14.710	(1.181)	773235	500.000	568.1
100 1,2,3-Trichlorobenzene	180	14.961	14.961	(1.201)	248361	500.000	527.0

Data File: /var/chem/hp4.1/40606d.b/4e40606.d
 Date: 06-JUN-2000 13:09
 Client ID: vstd200
 Sample Info: vstd200 5ml
 Volume Injected (ul): 5.0
 Column phase: DB 624

Instrument: hp4.i
 Operator: 16328
 Column diameter: 0.18

/var/chem/hp4.1/40606d.b/4e40606.d



STL-PITTSBURGH

VOLATILE REPORT SW-846 Method

Data file : /var/chem/hp4.i/40606d.b/4e40606.d
Lab Smp Id: vstd200 Client Smp ID: vstd200
Inj Date : 06-JUN-2000 13:09
Operator : 16328 Inst ID: hp4.i
Smp Info : vstd200 5ml
Misc Info : ,40606d.b
Comment :
Method : /var/chem/hp4.i/40606d.b/8260bh2o.m
Meth Date : 06-Jun-2000 13:27 dudeckk Quant Type: ISTD
Cal Date : 06-JUN-2000 13:09 Cal File: 4e40606.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 3.40
Processing Host: hpuxcs21

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON COL (ng)
*****	====	==	=====	=====	=====	=====	=====
* 46 Fluorobenzene	96	7 000	7 000	{1.000}	749614		
* 69 Chlorobenzene-d5	119	10 130	10 130	{1 000}	178155		
* 92 1,4-Dichlorobenzene-d4	152	12.459	12.459	{1 000}	247348		
\$ 39 Dibromofluoromethane	113	6.290	6 290	{0 899}	497464	1000 00	911.9
\$ 43 1,2-Dichloroethane-d4	65	6 688	6 688	{0.955}	510311	1000 00	882 8
\$ 59 Toluene-d8	98	8.650	8 650	{0 854}	2438053	1000 00	884 7
\$ 80 Bromofluorobenzene	95	11.309	11.309	{1 116}	900917	1000 00	840 4
1 Dichlorodifluoromethane	85	1 455	1 455	{0 208}	316550	1000.00	977 4
2 Chloromethane	50	1 644	1 644	{0 235}	781533	1000 00	902 1
3 Vinyl Chloride	62	1 748	1 748	{0 250}	720178	1000 00	993 3
4 Bromomethane	94	2.066	2 066	{0 295}	90764	1000 00	1072
5 Chloroethane	64	2.158	2.158	{0 308}	104744	1000 00	939 7
6 Trichlorofluoromethane	101	2 366	2.366	{0.338}	228931	1000.00	988 6
12 1,1-Dichloroethene	96	2 989	2 989	{0 427}	440822	1000 00	868 3
13 Acetone	43	3 350	3 350	{0 479}	152391	1000 00	927 3

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	----	==	=====	=====	-----	-----
15 Carbon Disulfide	76	3.228	3.228 (0.461)	1433632	1000.00	945.6
18 Methylene Chloride	84	3.821	3.821 (0.546)	554818	1000.00	893.7
19 trans-1,2-Dichloroethene	96	4.157	4.157 (0.594)	607129	1000.00	930.7
20 Methyl tert-butyl ether	73	4.255	4.255 (0.608)	1405887	1000.00	985.8
24 1,1-Dichloroethane	63	4.878	4.878 (0.697)	1062678	1000.00	931.8
27 2,2-Dichloropropane	77	5.618	5.618 (0.803)	819273	1000.00	962.3
28 cis-1,2-dichloroethene	96	5.679	5.679 (0.811)	710367	1000.00	935.7
M 29 1,2-Dichloroethene (total)	100			1317496	2000.00	1867
30 Bromochloromethane	128	5.979	5.979 (0.854)	310176	1000.00	933.0
31 2-Butanone	43	5.820	5.820 (0.831)	388408	1000.00	607.9
37 Chloroform	83	6.095	6.095 (0.871)	968957	1000.00	923.3
38 1,1,1-Trichloroethane	97	6.217	6.217 (0.888)	770702	1000.00	932.5
40 1,1-Dichloropropene	75	6.413	6.413 (0.916)	788536	1000.00	907.9
41 Carbon Tetrachloride	117	6.358	6.358 (0.908)	602002	1000.00	951.0
42 Benzene	78	6.645	6.645 (0.949)	2682713	1000.00	895.6
45 1,2 Dichloroethane	62	6.773	6.773 (0.968)	628642	1000.00	857.5
47 Trichloroethene	130	7.385	7.385 (1.055)	668706	1000.00	923.3
49 1,2-Dichloropropane	63	7.672	7.672 (1.096)	682292	1000.00	929.1
50 Dibromomethane	93	7.800	7.800 (1.114)	333083	1000.00	893.2
53 Bromodichloromethane	83	7.972	7.972 (1.139)	711640	1000.00	964.4
57 cis-1,3-Dichloropropene	75	8.436	8.436 (1.205)	1080311	1000.00	967.5
58 4-Methyl-2-Pentanone	43	8.626	8.626 (0.852)	696650	1000.00	1099
60 Toluene	91	8.717	8.717 (0.861)	2871938	1000.00	849.9
61 trans-1,3-Dichloropropene	75	9.035	9.035 (0.892)	910834	1000.00	930.0
63 1,3-Dichloropropane	76	9.378	9.378 (0.926)	980136	1000.00	861.6
64 1,1,2-Trichloroethane	97	9.213	9.213 (0.909)	557381	1000.00	872.0
65 Tetrachloroethene	164	9.243	9.243 (0.912)	471324	1000.00	883.6
66 2-Hexanone	43	9.457	9.457 (0.934)	470160	1000.00	1091
67 Dibromochloromethane	129	9.567	9.567 (0.944)	510437	1000.00	991.8
68 1,2 Dibromoethane	107	9.683	9.683 (0.956)	534214	1000.00	881.4
70 Chlorobenzene	112	10.154	10.154 (1.002)	1880491	1000.00	869.7
71 1,1,1,2-Tetrachloroethane	131	10.246	10.246 (1.011)	505559	1000.00	861.6
72 Ethylbenzene	106	10.240	10.240 (1.011)	979097	1000.00	815.1
73 m + p-Xylene	106	10.362	10.362 (1.023)	2232892	2000.00	1561
74 Xylene-o	106	10.759	10.759 (1.062)	1198279	1000.00	845.2
M 75 Xylenes (total)	106			3431171	1000.00	2420
76 Styrene	104	10.784	10.784 (1.065)	1952281	1000.00	838.4
77 Bromoform	173	10.985	10.985 (1.084)	289624	1000.00	1034
78 Isopropylbenzene	105	11.108	11.108 (1.097)	2845240	1000.00	824.3
79 Bromobenzene	156	11.450	11.450 (0.919)	685004	1000.00	955.8
81 n-Propylbenzene	120	11.523	11.523 (0.925)	819536	1000.00	857.7
82 2-Chlorotoluene	126	11.633	11.633 (0.934)	702067	1000.00	892.0
83 1,1,2,2-Tetrachloroethane	83	11.487	11.487 (0.922)	669838	1000.00	876.3
84 1,2,3-Trichloropropane	110	11.536	11.536 (0.926)	181053	1000.00	847.3
85 4-Chlorotoluene	126	11.750	11.750 (0.943)	678330	1000.00	839.0
86 1,3,5-Trimethylbenzene	105	11.707	11.707 (0.940)	2235634	1000.00	853.8
87 tert-Butylbenzene	119	12.019	12.019 (0.965)	2053222	1000.00	882.4

Compounds	QUANT SIG	AMOUNTS					
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
88 1,2,4-Trimethylbenzene	105	12.086	12 086	(0 970)	2266686	1000 00	842 7
89 sec-Butylbenzene	105	12 239	12 239	(0 982)	2998348	1000 00	846 7
90 4-Isopropyltoluene	119	12 385	12 385	(0 994)	2208468	1000.00	783 6
91 1,3 Dichlorobenzene	146	12 385	12 385	(0 994)	1129662	1000.00	796 2
93 1,4-Dichlorobenzene	146	12 483	12 483	(1.002)	1236429	1000 00	849 1
94 n-Butylbenzene	91	12 795	12 795	(1 027)	2631131	1000 00	883 7
95 1,2 Dichlorobenzene	146	12 856	12.856	(1 032)	1190070	1000 00	880 5
96 1,2-Dibromo-3-chloropropane	157	13 663	13 663	(1 097)	98242	1000.00	1017
97 1,2,4 Trichlorobenzene	180	14 458	14 458	(1 160)	660029	1000 00	1029
98 Hexachlorobutadiene	225	14.580	14 580	(1 170)	347670	1000 00	1050
99 Naphthalene	128	14 715	14.715	(1 181)	1250646	1000.00	968.8
100 1,2,3-Trichlorobenzene	180	14 959	14 959	(1 201)	452425	1000 00	1012

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FORM 7

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 40703D

Instrument ID: HP4

Calibration Date: 07/03/00 Time: 0555

Lab File ID: CC40703

Init. Calib. Date(s): 06/06/00 06/06/00

Heated Purge: (Y/N) N

Init. Calib. Times: 1126 1309

GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.108	0.101	0.01	6.5	50.0
Chloromethane	0.289	0.232	0.1	19.7	50.0
Vinyl Chloride	0.242	0.221	0.01	8.7	20.0
Bromomethane	0.028	0.018	0.01	35.7	50.0
Chloroethane	0.037	0.046	0.01	24.3	50.0
Trichlorofluoromethane	0.077	0.105	0.01	36.4	50.0
1,1-Dichloroethene	0.169	0.198	0.01	17.2	20.0
Methylene Chloride	0.207	0.230	0.01	11.1	50.0
trans-1,2-Dichloroethene	0.217	0.234	0.01	7.8	50.0
1,1-Dichloroethane	0.380	0.404	0.1	6.3	50.0
cis-1,2-dichloroethene	0.253	0.261	0.01	3.2	50.0
Chloroform	0.350	0.364	0.01	4.0	20.0
Bromochloromethane	0.111	0.118	0.01	6.3	50.0
1,1,1-Trichloroethane	0.275	0.290	0.01	5.4	50.0
Carbon Tetrachloride	0.211	0.229	0.01	8.5	50.0
1,2-Dichloroethane	0.245	0.260	0.01	6.1	50.0
Benzene	0.999	1.017	0.01	1.8	50.0
Trichloroethene	0.242	0.251	0.01	3.7	50.0
1,2-Dichloropropane	0.245	0.249	0.01	1.6	20.0
Bromodichloromethane	0.246	0.256	0.01	4.1	50.0
cis-1,3-Dichloropropene	0.372	0.364	0.01	2.2	50.0
Toluene	4.742	4.618	0.01	2.6	20.0
trans-1,3-Dichloropropene	1.374	1.229	0.01	10.6	50.0
1,1,2-Trichloroethane	0.897	0.860	0.01	4.1	50.0
Tetrachloroethene	0.749	0.737	0.01	1.6	50.0
Dibromochloromethane	0.722	0.736	0.01	1.9	50.0
Chlorobenzene	3.034	2.950	0.3	2.8	50.0
Ethylbenzene	1.686	1.683	0.01	0.2	20.0
Styrene	3.267	3.527	0.01	8.0	50.0
Bromoform	0.393	0.408	0.1	3.8	50.0
1,1,2,2-Tetrachloroethane	0.773	0.651	0.3	15.8	50.0
1,3-Dichlorobenzene	1.434	1.324	0.01	7.7	50.0
1,4-Dichlorobenzene	1.472	1.315	0.01	10.7	50.0
1,2-Dichlorobenzene	1.366	1.227	0.01	10.2	50.0
Dibromomethane	0.124	0.129	0.01	4.0	50.0
1,2-Dibromoethane	0.850	0.817	0.01	3.9	50.0
1,1,1,2-Tetrachloroethane	0.823	0.831	0.01	1.0	50.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

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Lab Name: STL PITTSBURGH Contract:
Lab Code: STLPIT Case No.: SAS No.: SDG No.: 40703D
Instrument ID: HP4 Calibration Date: 07/03/00 Time: 0555
Lab File ID: CC40703 Init. Calib. Date(s): 06/06/00 06/06/00
Heated Purge: (Y/N) N Init. Calib. Times: 1126 1309
GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2,3-Trichloropropane	0.216	0.190	0.01	12.0	50.0
1,2-Dibromo-3-chloropropane	0.097	0.068	0.01	29.9	50.0
2,2-Dichloropropane	0.284	0.294	0.01	3.5	50.0
1,1-Dichloropropene	0.290	0.294	0.01	1.4	50.0
1,3-Dichloropropane	1.596	1.520	0.01	4.8	50.0
n-Propylbenzene	0.966	0.863	0.01	10.7	50.0
Bromobenzene	0.724	0.635	0.01	12.3	50.0
1,3,5-Trimethylbenzene	2.647	2.361	0.01	10.8	50.0
2-Chlorotoluene	0.796	0.700	0.01	12.1	50.0
4-Chlorotoluene	0.817	0.732	0.01	10.4	50.0
tert-Butylbenzene	2.351	2.091	0.01	11.0	50.0
1,2,4-Trimethylbenzene	2.718	2.438	0.01	10.3	50.0
sec-Butylbenzene	3.579	3.199	0.01	10.6	50.0
4-Isopropyltoluene	2.849	2.638	0.01	7.4	50.0
n-Butylbenzene	3.009	2.657	0.01	11.7	50.0
1,2,4-Trichlorobenzene	0.648	0.443	0.01	31.6	50.0
Hexachlorobutadiene	0.335	0.247	0.01	26.3	50.0
Naphthalene	1.305	0.759	0.01	41.8	50.0
1,2,3-Trichlorobenzene	0.452	0.227	0.01	49.8	50.0
Acetone	0.055	0.081	0.01	47.3	50.0
Carbon Disulfide	0.505	0.645	0.01	27.7	50.0
2-Butanone	0.213	0.203	0.01	4.7	50.0
4-Methyl-2-Pentanone	0.889	0.977	0.01	9.9	50.0
2-Hexanone	0.605	0.664	0.01	9.8	50.0
Methyl tert-butyl ether	0.476	0.567	0.01	19.1	50.0
Isopropylbenzene	4.844	5.055	0.01	4.4	50.0
1,2-Dichloroethene (total)	0.235	0.248	0.01	5.5	50.0
Xylenes (total)	1.990	2.044	0.01	2.7	50.0
Dibromofluoromethane	0.182	0.215	0.01	18.1	50.0
1,2-Dichloroethane-d4	0.193	0.231	0.01	19.7	50.0
Toluene-d8	3.867	4.231	0.01	9.4	50.0
Bromofluorobenzene	1.504	1.591	0.01	5.8	50.0

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CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: hp4.i
 Lab File ID: CC40703.D
 Analysis Type: WATER

Injection Date: 03-JUL-2000 05:55
 Lab Sample ID: vstd50
 Method File: \\qpitpa02\d\chem\hp4.i\40703d.b\8260Bh

COMPOUND	EXPECTED CONC.	MEASURED CONC	%D	MAX %D
154 Xylenes (total)	750.0000	772.5646	3.0	50.0
153 1,2-Dichloroethene (total)	500.0000	526.1846	5.2	50.0
1 Dichlorodifluoromethane	250.0000	232.9062	6.8	50.0
2 Chloromethane	250.0000	201.0886	19.6	50.0
3 Vinyl Chloride	250.0000	228.7182	8.5	20.0
4 Bromomethane	250.0000	157.0444	37.2	50.0
5 Chloroethane	250.0000	311.2135	24.5	50.0
6 Trichlorofluoromethane	250.0000	340.2061	36.1	50.0
9 1,1-Dichloroethene	250.0000	292.9373	17.2	20.0
107 Carbon Disulfide	250.0000	319.0004	27.6	50.0
106 Acetone	250.0000	369.1952	47.7	50.0
10 Methylene Chloride	250.0000	277.3381	10.9	50.0
13 trans-1,2-Dichloroethene	250.0000	269.0441	7.6	50.0
134 Methyl tert-butyl ether	250.0000	298.1948	19.3	50.0
15 1,1-Dichloroethane	250.0000	265.9290	6.4	50.0
74 2,2-Dichloropropane	250.0000	259.1970	3.7	50.0
17 cis-1,2-dichloroethene	250.0000	257.9780	3.2	50.0
108 2-Butanone	250.0000	238.7503	4.5	50.0
19 Bromochloromethane	250.0000	267.1270	6.9	50.0
18 Chloroform	250.0000	260.2716	4.1	20.0
20 1,1,1-Trichloroethane	250.0000	263.3142	5.3	50.0
149 Dibromofluoromethane	250.0000	296.0598	18.4	50.0
21 Carbon Tetrachloride	250.0000	271.3195	8.5	50.0
75 1,1-Dichloropropene	250.0000	253.9576	1.6	50.0
24 Benzene	250.0000	254.5469	1.8	50.0
150 1,2-Dichloroethane-d4	250.0000	299.5302	19.8	50.0
23 1,2-Dichloroethane	250.0000	266.3488	6.5	50.0
137 Fluorobenzene	250.0000	250.0000	0.0	50.0
26 Trichloroethene	250.0000	259.8509	3.9	50.0
27 1,2-Dichloropropane	250.0000	253.8128	1.5	20.0
60 Dibromomethane	250.0000	259.8576	3.9	50.0
28 Bromodichloromethane	250.0000	259.8924	4.0	50.0
31 cis-1,3-Dichloropropene	250.0000	244.6876	2.1	50.0
110 4-Methyl-2-Pentanone	250.0000	274.5563	9.8	50.0
151 Toluene-d8	250.0000	273.5235	9.4	50.0
33 Toluene	250.0000	243.4626	2.6	20.0
34 trans-1,3-Dichloropropene	250.0000	223.4834	10.6	50.0
36 1,1,2-Trichloroethane	250.0000	239.5943	4.2	50.0
37 Tetrachloroethene	250.0000	246.1707	1.5	50.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: hp4.i
 Lab File ID: CC40703.D
 Analysis Type: WATER

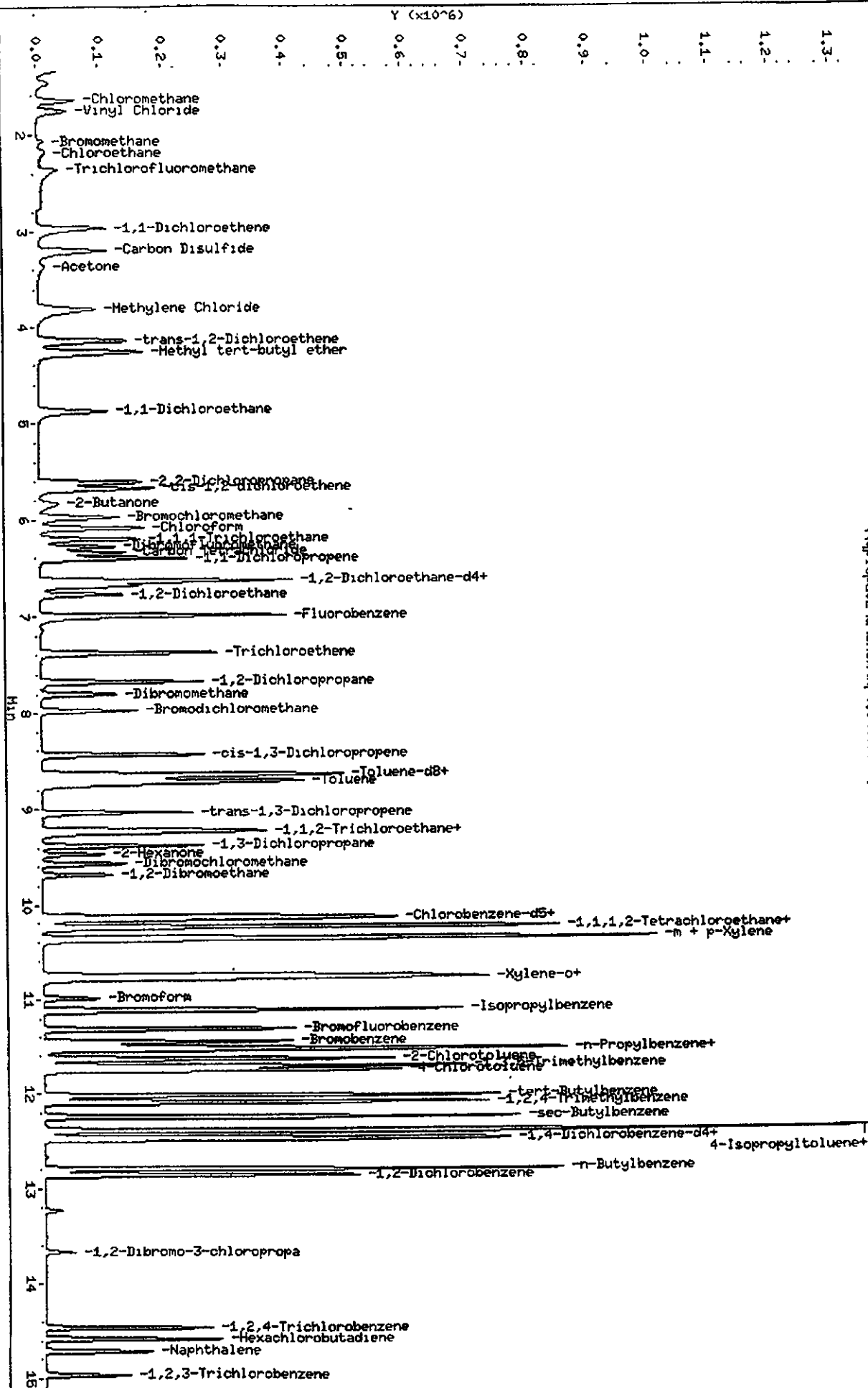
Injection Date: 03-JUL-2000 05:55
 Lab Sample ID: vstd50
 Method File: \\qpitpa02\d\chem\hp4.i\40703d.b

COMPOUND	EXPECTED CONC.	MEASURED CONC	%D	MAX %D
77 1,3-Dichloropropane	250.0000	237.9746	4.8	50.0
111 2-Hexanone	250.0000	274.3446	9.7	50.0
38 Dibromochloromethane	250.0000	254.8381	1.9	50.0
63 1,2-Dibromoethane	250.0000	240.1759	3.9	50.0
101 Chlorobenzene-d5	250.0000	250.0000	0.0	50.0
40 Chlorobenzene	250.0000	243.0720	2.8	50.0
41 Ethylbenzene	250.0000	249.6704	0.1	20.0
64 1,1,1,2-Tetrachloroethane	250.0000	252.4418	1.0	50.0
0 m + p-Xylene	500.0000	510.9923	2.2	50.0
0 Xylene-o	250.0000	256.9096	2.8	50.0
44 Styrene	250.0000	269.8813	8.0	50.0
45 Bromoform	250.0000	259.6784	3.9	50.0
144 Isopropylbenzene	250.0000	260.8876	4.4	50.0
152 Bromofluorobenzene	250.0000	264.4646	5.8	50.0
84 Bromobenzene	250.0000	219.1039	12.4	50.0
46 1,1,2,2-Tetrachloroethane	250.0000	210.8084	15.7	50.0
83 n-Propylbenzene	250.0000	223.3702	10.7	50.0
65 1,2,3-Trichloropropane	250.0000	219.5349	12.2	50.0
86 2-Chlorotoluene	250.0000	219.9084	12.0	50.0
85 1,3,5-Trimethylbenzene	250.0000	223.0686	10.8	50.0
87 4-Chlorotoluene	250.0000	223.9610	10.4	50.0
88 tert-Butylbenzene	250.0000	222.2481	11.1	50.0
89 1,2,4-Trimethylbenzene	250.0000	224.1785	10.3	50.0
90 sec-Butylbenzene	250.0000	223.4484	10.6	50.0
91 4-Isopropyltoluene	250.0000	231.4836	7.4	50.0
48 1,3-Dichlorobenzene	250.0000	230.8126	7.7	50.0
102 1,4-Dichlorobenzene-d4	250.0000	250.0000	0.0	50.0
49 1,4-Dichlorobenzene	250.0000	223.4097	10.6	50.0
94 n-Butylbenzene	250.0000	220.7506	11.7	50.0
50 1,2-Dichlorobenzene	250.0000	224.5499	10.2	50.0
69 1,2-Dibromo-3-chloropropane	250.0000	175.1034	30.0	50.0
95 1,2,4-Trichlorobenzene	250.0000	170.9137	31.6	50.0
96 Hexachlorobutadiene	250.0000	184.6284	26.1	50.0
97 Naphthalene	250.0000	145.3485	41.9	50.0
98 1,2,3-Trichlorobenzene	250.0000	125.6824	49.7	50.0

Data File: \\spitpa02\chem\hp4.1\40703d.b\CC40703.D
 Date: 03-JUL-2000 05:55
 Client ID: vstd50
 Sample Info: vstd50 5ml
 Volume Injected (ul): 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 10099
 Column diameter: 0.18

\\spitpa02\chem\hp4.1\40703d.b\CC40703.D



Data File: \\gpitpa02\d\chem\hp4.i\40703d.b\CC40703.D
Report Date: 03-Jul-2000 06:26

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\gpitpa02\d\chem\hp4.i\40703d.b\CC40703.D
Lab Smp Id: vstd50 Client Smp ID: vstd50
Inj Date : 03-JUL-2000 05:55 MS Autotune Date: 16-DEC-1999 09:07
Operator : 10099 Inst ID: hp4.i
Smp Info : vstd50 5ml
Misc Info : ,400703d.b,8260Bh2o.M
Comment :
Method : \\gpitpa02\d\chem\hp4.i\40703d.b\8260Bh2o.m
Meth Date : 03-Jul-2000 06:26 gordonk Quant Type: ISTD
Cal Date : 06-JUN-2000 12:18 Cal File: 4c40606.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 4.04
Processing Host: PITPC073

V6
7/3/00

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(ng)	(ng)
* 46 Fluorobenzene		96	6.995	6.995	(1.000)	457049	250.000	
* 69 Chlorobenzene-d5		119	10.125	10.125	(1.000)	114381	250.000	
* 92 1,4-Dichlorobenzene-d4		152	12.460	12.460	(1.000)	205384	250.000	
\$ 39 Dibromofluoromethane		113	6.286	6.286	(0.899)	98473	250.000	296.1
\$ 43 1,2-Dichloroethane-d4		65	6.683	6.683	(0.955)	105574	250.000	299.5
\$ 59 Toluene-d8		98	8.646	8.646	(0.854)	483944	250.000	273.5
\$ 80 Bromofluorobenzene		95	11.311	11.311	(1.117)	182020	250.000	264.5
1 Dichlorodifluoromethane		85	1.463	1.463	(0.209)	45991	250.000	232.9
2 Chloromethane		50	1.652	1.652	(0.236)	106216	250.000	201.1
3 Vinyl Chloride		62	1.756	1.756	(0.251)	101103	250.000	228.7
4 Bromomethane		94	2.068	2.068	(0.296)	8110	250.000	157.0
5 Chloroethane		64	2.172	2.172	(0.311)	21150	250.000	311.2
6 Trichlorofluoromethane		101	2.361	2.361	(0.338)	48034	250.000	340.2
12 1,1-Dichloroethane		96	2.966	2.966	(0.424)	90673	250.000	292.9
13 Acetone		43	3.370	3.370	(0.482)	36992	250.000	369.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
15 Carbon Disulfide	76	3.199	3.199	(0.457)	294869	250.000	319.0
18 Methylene Chloride	84	3.810	3.810	(0.545)	104975	250.000	277.3
19 trans-1,2-Dichloroethene	96	4.140	4.140	(0.592)	107013	250.000	269.0
20 Methyl tert-butyl ether	73	4.262	4.262	(0.609)	259296	250.000	298.2
24 1,1-Dichloroethane	63	4.868	4.868	(0.696)	184914	250.000	265.9
27 2,2-Dichloropropane	77	5.607	5.607	(0.802)	134551	250.000	259.2
28 cis-1,2-dichloroethene	96	5.675	5.675	(0.811)	119414	250.000	258.0
M 29 1,2-Dichloroethene (total)	100				226428	500.000	526.2
30 Bromochloromethane	128	5.974	5.974	(0.854)	54145	250.000	267.1
31 2-Butanone	43	5.827	5.827	(0.833)	93009	250.000	238.8
37 Chloroform	83	6.090	6.090	(0.871)	166530	250.000	260.3
38 1,1,1-Trichloroethane	97	6.206	6.206	(0.887)	132690	250.000	263.3
40 1,1-Dichloropropene	75	6.408	6.408	(0.916)	134477	250.000	254.0
41 Carbon Tetrachloride	117	6.347	6.347	(0.907)	104718	250.000	271.3
42 Benzene	78	6.641	6.641	(0.949)	464862	250.000	254.5
45 1,2-Dichloroethane	62	6.775	6.775	(0.969)	119054	250.000	266.4
47 Trichloroethene	130	7.380	7.380	(1.055)	114749	250.000	259.8
49 1,2-Dichloropropane	63	7.674	7.674	(1.097)	113641	250.000	253.8
50 Dibromomethane	93	7.796	7.796	(1.114)	59082	250.000	259.8
53 Bromodichloromethane	83	7.973	7.973	(1.140)	116923	250.000	259.9
57 cis-1,3-Dichloropropene	75	8.438	8.438	(1.206)	166585	250.000	244.7
58 4-Methyl-2-Pentanone	43	8.633	8.633	(0.853)	111707	250.000	274.6
60 Toluene	91	8.719	8.719	(0.861)	528193	250.000	243.5
61 trans-1,3-Dichloropropene	75	9.031	9.031	(0.892)	140532	250.000	223.5
63 1,3-Dichloropropane	76	9.379	9.379	(0.926)	173811	250.000	238.0
64 1,1,2-Trichloroethane	97	9.208	9.208	(0.909)	98326	250.000	239.6
65 Tetrachloroethene	164	9.233	9.233	(0.912)	84304	250.000	246.2
66 2-Hexanone	43	9.465	9.465	(0.935)	75928	250.000	274.3
67 Dibromochloromethane	129	9.569	9.569	(0.945)	84205	250.000	254.8
68 1,2-Dibromoethane	107	9.685	9.685	(0.957)	93457	250.000	240.2
70 Chlorobenzene	112	10.156	10.156	(1.003)	337432	250.000	243.1
71 1,1,1,2-Tetrachloroethane	131	10.247	10.247	(1.012)	95100	250.000	252.4
72 Ethylbenzene	106	10.235	10.235	(1.011)	192545	250.000	249.7
73 m + p-Xylene	106	10.357	10.357	(1.023)	469337	500.000	511.0
74 Xylene-o	106	10.755	10.755	(1.062)	233833	250.000	256.9
M 75 Xylenes (total)	106				703171	250.000	772.6
76 Styrene	104	10.785	10.785	(1.065)	403465	250.000	269.9
77 Bromoform	173	10.987	10.987	(1.085)	46692	250.000	259.7
78 Isopropylbenzene	105	11.109	11.109	(1.097)	578168	250.000	260.9
79 Bromobenzene	156	11.446	11.446	(0.919)	130381	250.000	219.1
81 n-Propylbenzene	120	11.519	11.519	(0.924)	177216	250.000	223.4
82 2-Chlorotoluene	126	11.629	11.629	(0.933)	143717	250.000	219.9
83 1,1,2,2-Tetrachloroethane	83	11.488	11.488	(0.922)	133804	250.000	210.8
84 1,2,3-Trichloropropane	110	11.537	11.537	(0.926)	38950	250.000	219.5
85 4-Chlorotoluene	126	11.751	11.751	(0.943)	150342	250.000	224.0
86 1,3,5-Trimethylbenzene	105	11.708	11.708	(0.940)	485014	250.000	223.1
87 tert-Butylbenzene	119	12.014	12.014	(0.964)	429379	250.000	222.2

Data File: \\gpitpa02\d\chem\hp4.i\40703d.b\CC40703.D
 Report Date: 03-Jul-2000 06:26

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT	ON-COL
	MASS					(ng)	(ng)
*****	****	**	*****	*****	*****	*****	*****
88 1,2,4-Trimethylbenzene	105	12.081	12.081	(0.970)	500667	250.000	224.2
89 sec-Butylbenzene	105	12.234	12.234	(0.982)	657002	250.000	223.4
90 4-Isopropyltoluene	119	12.381	12.381	(0.994)	541718	250.000	231.5
91 1,3-Dichlorobenzene	146	12.381	12.381	(0.994)	271925	250.000	230.8
93 1,4-Dichlorobenzene	146	12.479	12.479	(1.001)	270121	250.000	223.4
94 n-Butylbenzene	91	12.791	12.791	(1.026)	545778	250.000	220.8
95 1,2-Dichlorobenzene	146	12.858	12.858	(1.032)	251995	250.000	224.5
96 1,2-Dibromo-3-chloropropane	157	13.659	13.659	(1.096)	14045	250.000	175.1
97 1,2,4-Trichlorobenzene	180	14.459	14.459	(1.160)	91019	250.000	170.9
98 Hexachlorobutadiene	225	14.576	14.576	(1.170)	50769	250.000	184.6
99 Naphthalene	128	14.710	14.710	(1.181)	155808	250.000	145.3
100 1,2,3-Trichlorobenzene	180	14.961	14.961	(1.201)	46650	250.000	125.7

**GC/MS VOLATILE
QC DATA**

Data File: /var/chem/hp4.1/40606d.b/cf40606.d

Date : 06-JUN-2000 10:58

Client ID: 50NGBFB

Instrument: hp4.1

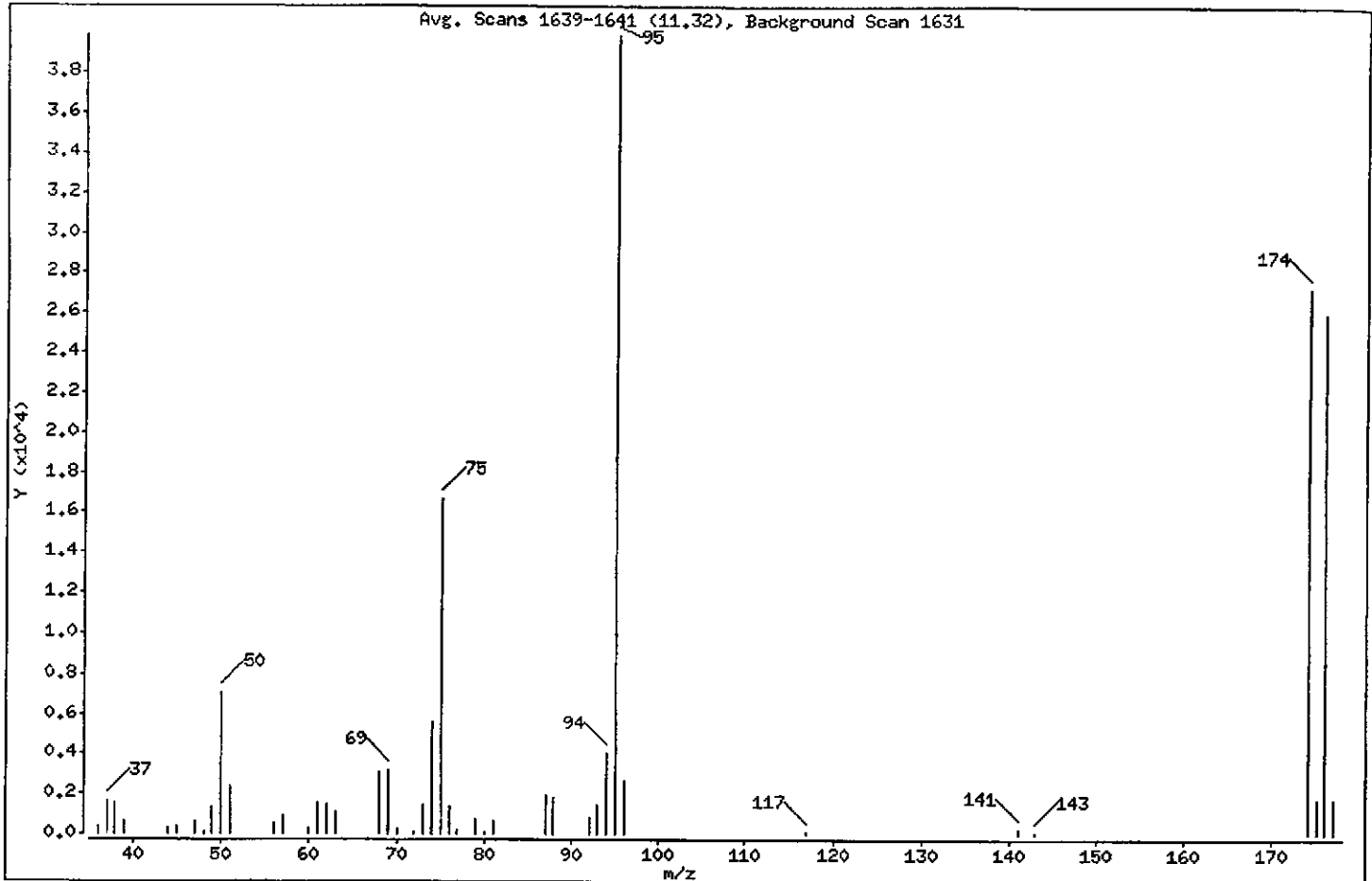
Sample Info: bfb 1ul inj

Operator: 16328

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.72
75	30.00 - 60.00% of mass 95	41.76
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	68.51
175	5.00 - 9.00% of mass 174	4.25 (6.21)
176	95.00 - 101.00% of mass 174	65.39 (95.46)
177	5.00 - 9.00% of mass 176	4.26 (6.52)

Date : 06-JUN-2000 10:58

Client ID: 50NCBFB

Instrument: hp4.1

Sample Info: bfb 1ul inj

Operator: 16328

Column phase: DB624 20m

Column diameter: 0.18

Data File: cf40606.d

Spectrum: Avg. Scans 1639-1641 (11,32), Background Scan 1631

Location of Maximum: 95.00

Number of points: 43

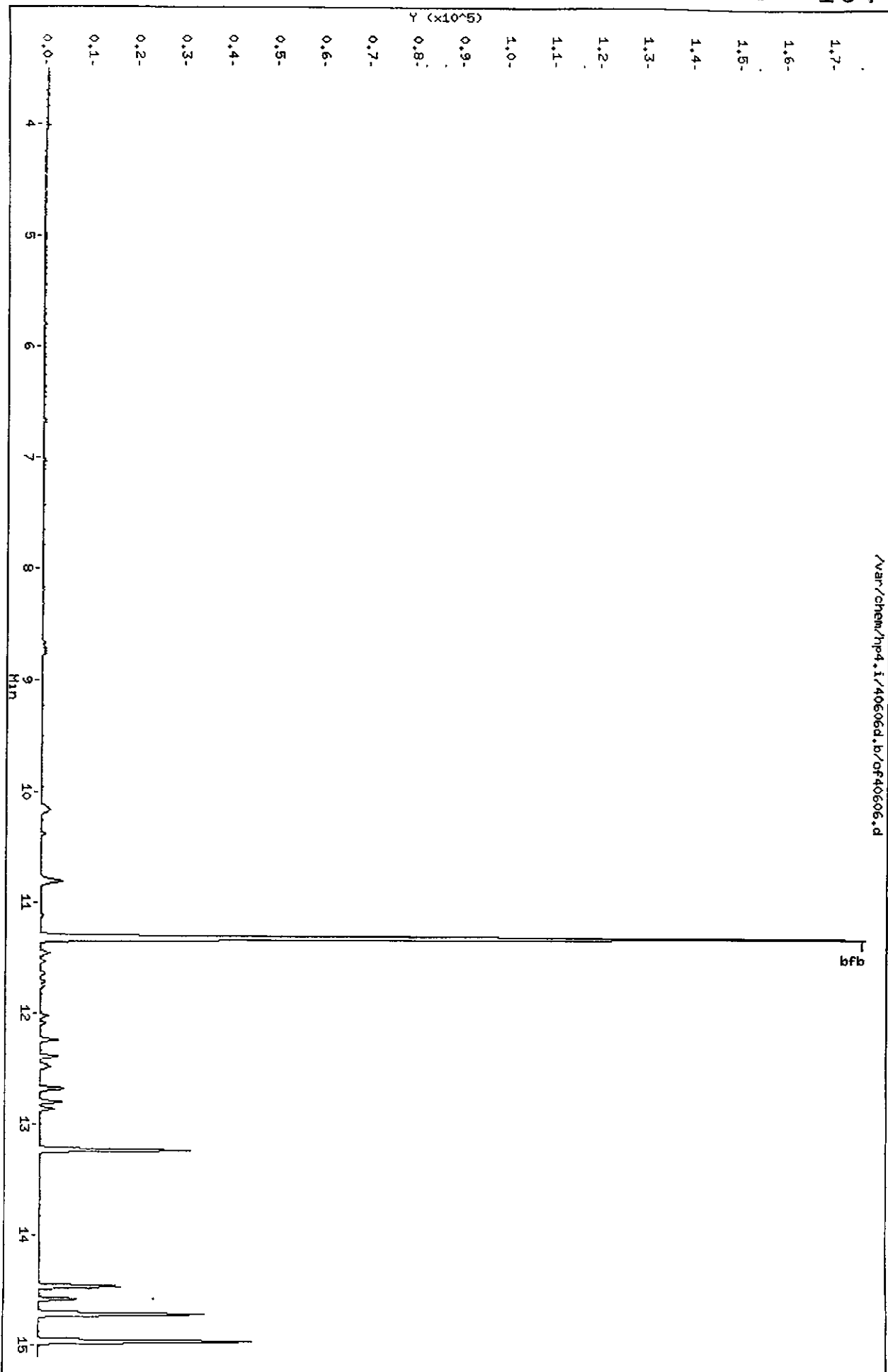
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	331	56.00	563	74.00	5578	94.00	4000
37.00	1616	57.00	959	75.00	16648	95.00	39864
38.00	1599	60.00	233	76.00	1390	96.00	2646
39.00	649	61.00	1567	77.00	188	117.00	88
44.00	315	62.00	1487	79.00	722	141.00	267
45.00	325	63.00	1105	80.00	71	143.00	73
47.00	604	68.00	3097	81.00	617	174.00	27304
48.00	85	69.00	3200	87.00	1968	175.00	1696
49.00	1418	70.00	277	88.00	1796	176.00	26064
50.00	7064	72.00	111	92.00	851	177.00	1700
51.00	2389	73.00	1461	93.00	1464		

Data File: /var/chem/hp4.i/40606d.b/cf40606.d
 Date: 06-JUN-2000 10:58
 Client ID: 50NCEFB
 Sample Info: bfb lui inj

Instrument: hp4.i

Operator: 16328
 Column diameter: 0.18
 Column phase: DB624 20m

/var/chem/hp4.i/40606d.b/cf40606.d



Data File: \\QPITPA02\D\chem\hp4.1\40703d.b\BF40703.D

Date : 03-JUL-2000 05:32

Client ID: 50NGBFB

Instrument: hp4.1

Sample Info: bfb 1ul inj

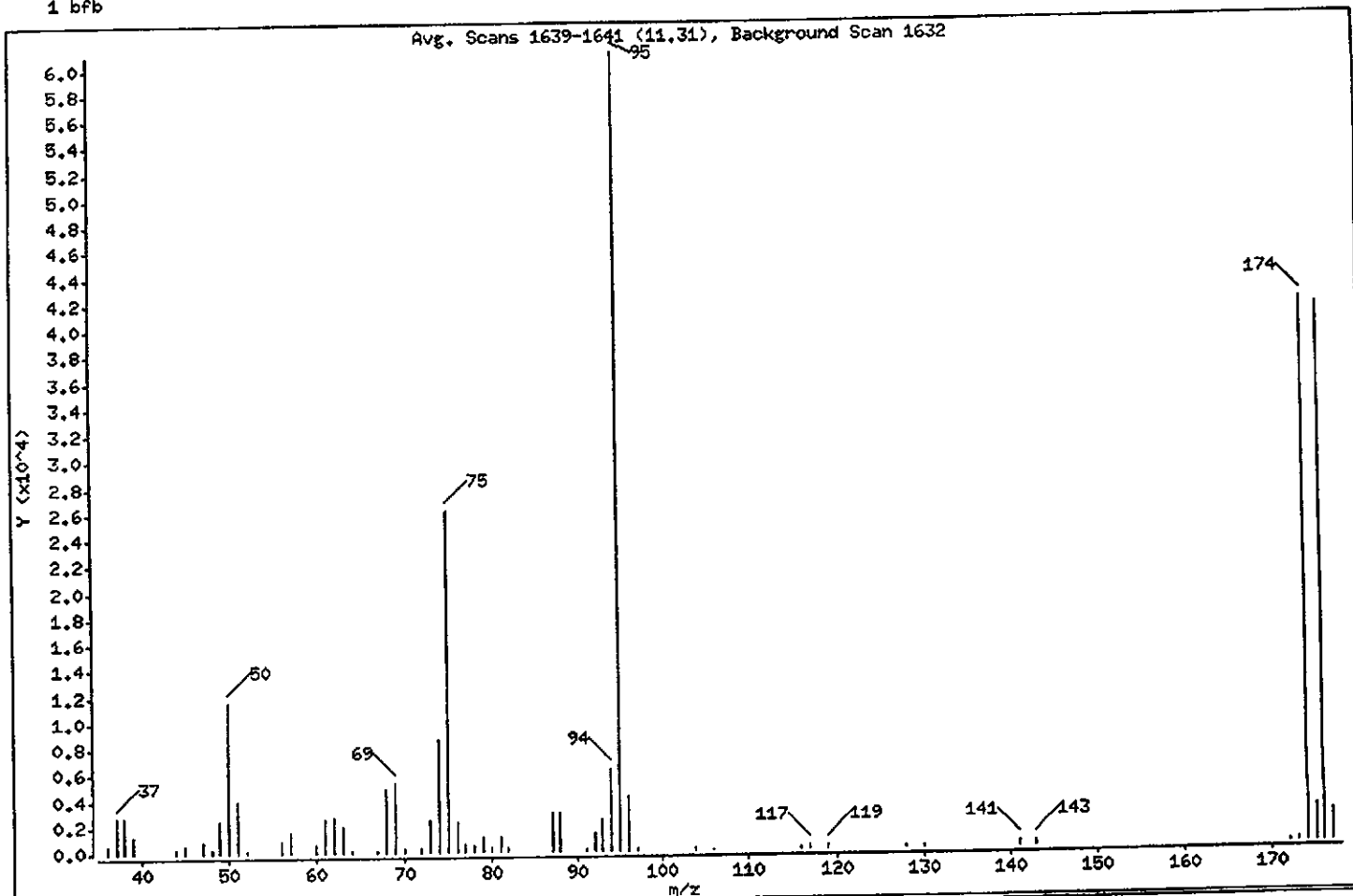
Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.96
75	30.00 - 60.00% of mass 95	42.84
96	5.00 - 9.00% of mass 95	6.82
173	Less than 2.00% of mass 174	0.51 < 0.75
174	50.00 - 100.00% of mass 95	68.11
175	5.00 - 9.00% of mass 174	4.70 < 6.90
176	95.00 - 101.00% of mass 174	67.25 < 98.74
177	5.00 - 9.00% of mass 176	3.89 < 5.78

Data File: \\QPITPA02\ID\chem\hp4.1\40703d.b\BF40703.D

Page 3

Date : 03-JUL-2000 05:32

Client ID: 50MGBFB

Instrument: hp4.1

Sample Info: bfb 1ul inj

Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.18

Data File: BF40703.D

Spectrum: Avg. Scans 1639-1641 (11.31), Background Scan 1632

Location of Maximum: 95.00

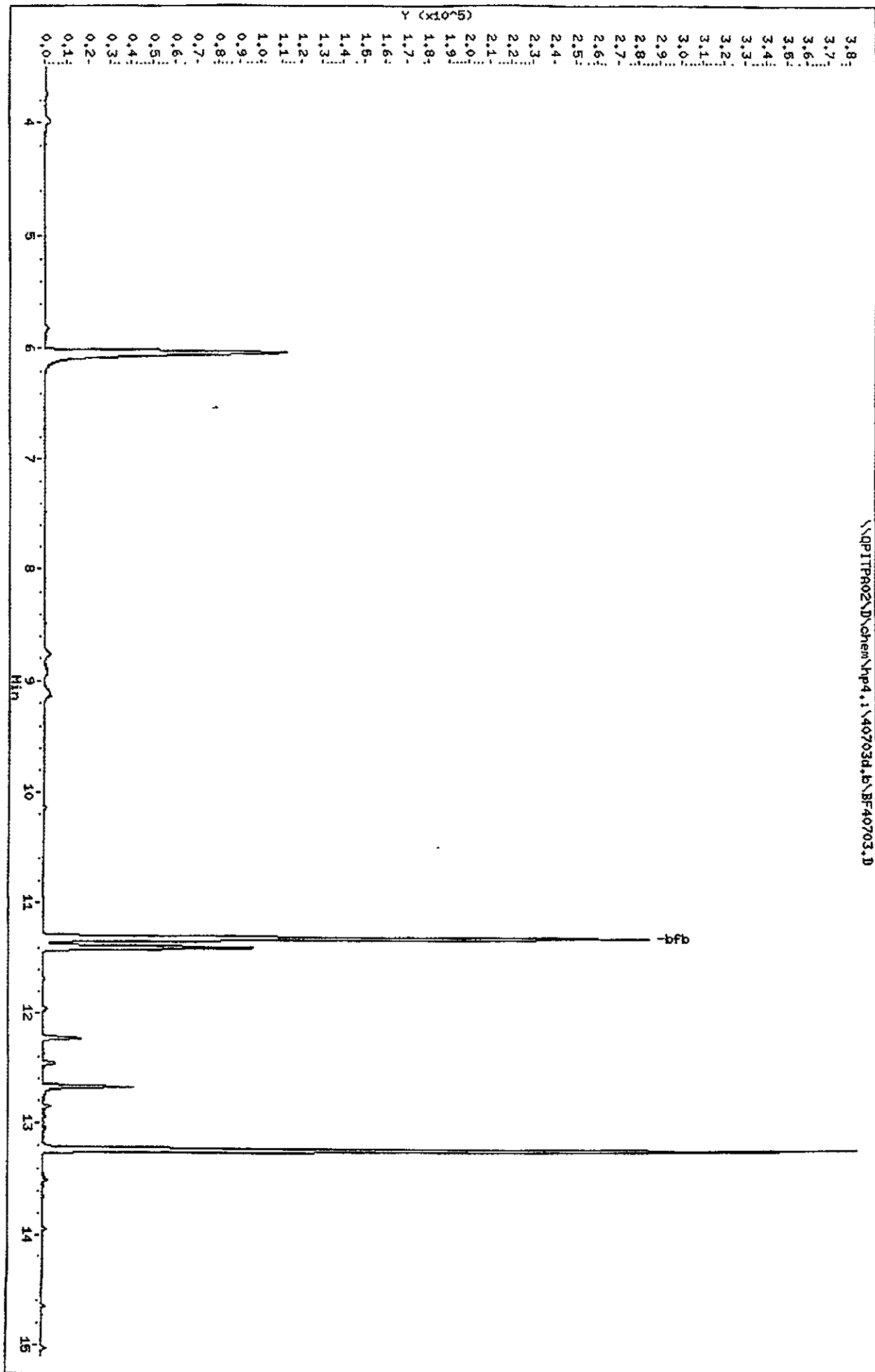
Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	522	61.00	2564	79.00	1107	116.00	71
37.00	2651	62.00	2598	80.00	284	117.00	302
38.00	2639	63.00	1932	81.00	1138	119.00	272
39.00	1266	64.00	84	82.00	274	128.00	167
44.00	351	67.00	85	87.00	3004	130.00	71
45.00	551	68.00	4879	88.00	2965	141.00	398
47.00	851	69.00	5268	91.00	79	143.00	455
48.00	345	70.00	345	92.00	1445	172.00	190
49.00	2410	72.00	335	93.00	2332	173.00	313
50.00	11581	73.00	2366	94.00	6342	174.00	41600
51.00	3870	74.00	8705	95.00	61080	175.00	2869
52.00	79	75.00	26160	96.00	4168	176.00	41080
56.00	870	76.00	2263	97.00	91	177.00	2376
57.00	1609	77.00	518	104.00	105		
60.00	528	78.00	352	106.00	67		

Data File: \\QPITPA02\chem\hp4.1\40703d.b\BF40703.D
 Date : 03-JUL-2000 05:32
 Client ID: BONGCBFB
 Sample Info: bfb 1ul inj
 Volume Injected (ul): 1.0
 Column phase: DB624 20m

Instrument: hp4.1
 Operator: 10099
 Column diameter: 0.18

\\QPITPA02\chem\hp4.1\40703d.b\BF40703.D



UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER Lab Sample ID: C0G030000 097
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 06/30/00
Work Order: DFNA0101 Date Extracted: 07/03/00
Dilution factor: 1 Date Analyzed: 07/03/00

QC Batch: 0185097

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	20	U
71-43-2	Benzene	5.0	U
75-27-4	Bromodichloromethane	5.0	U
75-25-2	Bromoform	5.0	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	20	U
75-15-0	Carbon disulfide	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
108-90-7	Chlorobenzene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5.0	U
74-87-3	Chloromethane	10	U
75-34-3	1,1-Dichloroethane	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
100-41-4	Ethylbenzene	5.0	U
591-78-6	2-Hexanone	20	U
75-09-2	Methylene chloride	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
100-42-5	Styrene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-88-3	Toluene	5.0	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER Lab Sample ID: C0G030000 097
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)Sample WT/Vol: 5 / mL Date Received: 06/30/00
Work Order: DFNA0101 Date Extracted: 07/03/00
Dilution factor: 1 Date Analyzed: 07/03/00

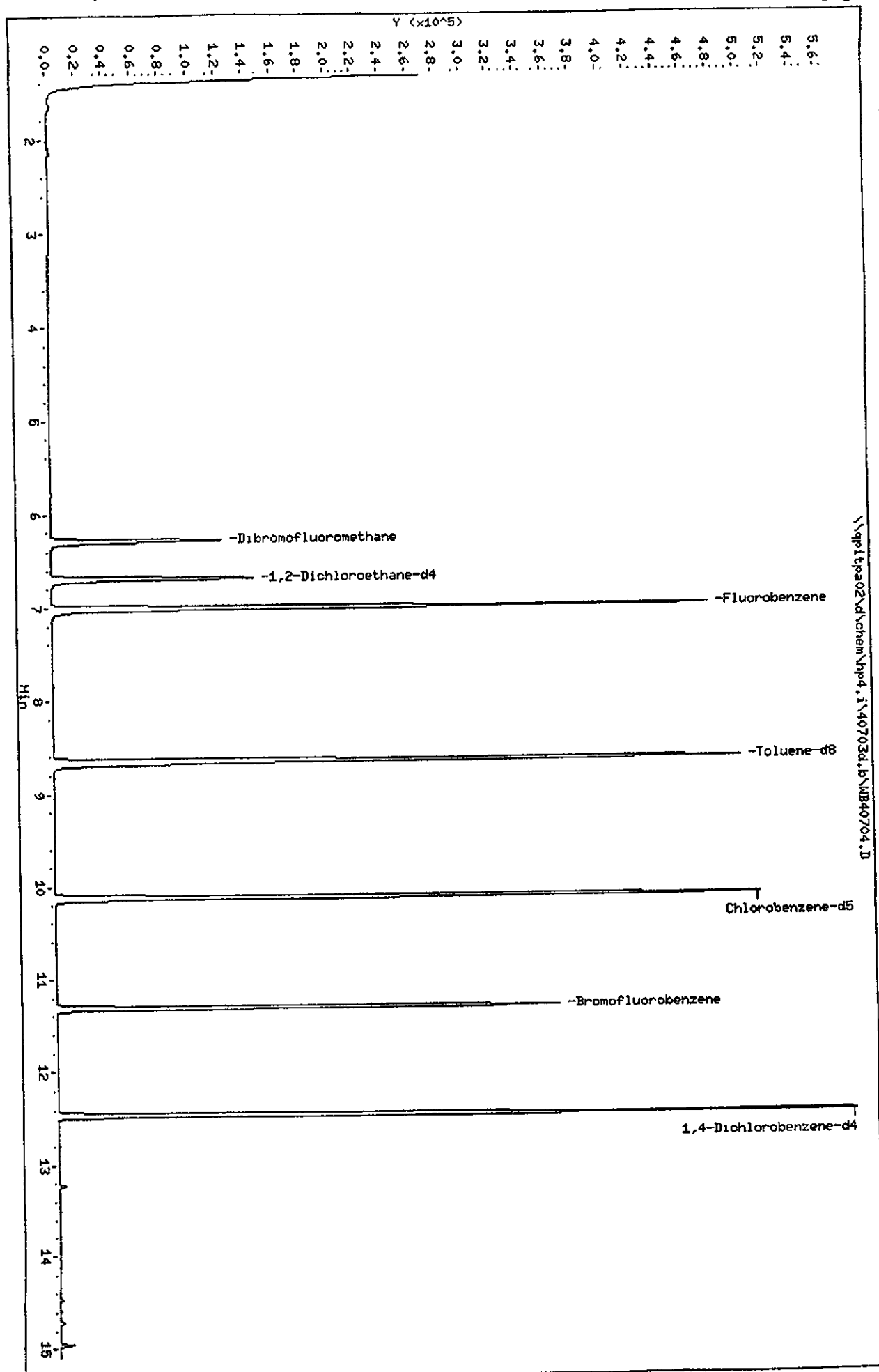
QC Batch: 0185097

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Xylenes (total)	5.0	U

Data File: \\pittpa02\chem\hpd.1\40703d.b\MB40704.D
Date: 03-JUL-2000 06:41
Client ID:
Sample Info: vblk 5ml
Volume Injected (uL): 5.0
Column phase: DB 624

Instrument: hpd.1
Operator: 10099
Column diameter: 0.18



Data File: \\qpitpa02\d\chem\hp4.i\40703d.b\WB40704.D
Report Date: 03-Jul-2000 07:24

Page 1

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40703d.b\WB40704.D

Lab Smp Id:

Inj Date : 03-JUL-2000 06:41

MS Autotune Date: 16-DEC-1999 09:07

Operator : 10099

Inst ID: hp4.i

Smp Info : vblk 5ml

Misc Info : ,40703d.b,8260Bh2o.M

Comment :

Method : \\QPITPA02\D\chem\hp4.i\40703d.b\8260Bh2o.m

Meth Date : 03-Jul-2000 06:46 gordonk

Quant Type: ISTD

Cal Date : 06-JUN-2000 12:18

Cal File: 4c40606.d

Als bottle: 4

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 2-padep.sub

Target Version: 4.04

Processing Host: QPITPA02

KLG
7/3/00

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.005	6.999	(1.000)	522897	250.000		
* 69 Chlorobenzene-d5	119	10.123	10.123	(1.000)	114492	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.458	12.458	(1.000)	178635	250.000		
\$ 39 Dibromofluoromethane	113	6.290	6.286	(0.898)	98429	258.662	51.73	
\$ 43 1,2-Dichloroethane-d4	65	6.687	6.993	(0.955)	107180	265.793	53.16	
\$ 59 Toluene-d8	98	8.649	8.643	(0.854)	443468	250.404	50.08	
\$ 80 Bromofluorobenzene	95	11.309	11.309	(1.117)	158285	229.756	45.95	
1 Dichlorodifluoromethane	85				Compound Not Detected			
2 Chloromethane	50				Compound Not Detected.			
3 Vinyl Chloride	62				Compound Not Detected.			
4 Bromomethane	94				Compound Not Detected.			
5 Chloroethane	64				Compound Not Detected.			
6 Trichlorofluoromethane	101				Compound Not Detected.			
12 1,1-Dichloroethene	96				Compound Not Detected.			
13 Acetone	43				Compound Not Detected.			

Data File: \\qpitpa02\d\chem\hp4.1\40703d.b\WB40704.D
Report Date: 03-Jul-2000 07:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
*****	----	--	-----	-----	-----	-----	-----
15 Carbon Disulfide	76				Compound Not Detected		
18 Methylene Chloride	84				Compound Not Detected		
19 trans-1,2-Dichloroethene	96				Compound Not Detected.		
20 Methyl tert-butyl ether	73				Compound Not Detected		
22 Acrylonitrile	53				Compound Not Detected.		
24 1,1-Dichloroethane	63				Compound Not Detected		
27 2,2-Dichloropropane	77				Compound Not Detected.		
28 cis-1,2-dichloroethene	96				Compound Not Detected		
M 29 1,2-Dichloroethene (total)	100				Compound Not Detected.		
30 Bromochloromethane	128				Compound Not Detected.		
31 2-Butanone	43				Compound Not Detected.		
37 Chloroform	83				Compound Not Detected.		
38 1,1,1-Trichloroethane	97				Compound Not Detected.		
40 1,1-Dichloropropene	75				Compound Not Detected.		
41 Carbon Tetrachloride	117				Compound Not Detected.		
42 Benzene	78				Compound Not Detected		
44 Isobutanol	41				Compound Not Detected.		
45 1,2-Dichloroethane	62				Compound Not Detected.		
47 Trichloroethene	130				Compound Not Detected.		
49 1,2-Dichloropropane	63				Compound Not Detected		
50 Dibromomethane	93				Compound Not Detected.		
53 Bromodichloromethane	83				Compound Not Detected.		
57 cis-1,3-Dichloropropene	75				Compound Not Detected.		
58 4-Methyl-2-Pentanone	43				Compound Not Detected.		
60 Toluene	91				Compound Not Detected.		
61 trans-1,3-Dichloropropene	75				Compound Not Detected.		
63 1,3-Dichloropropane	76				Compound Not Detected.		
64 1,1,2-Trichloroethane	97				Compound Not Detected.		
65 Tetrachloroethene	164				Compound Not Detected		
66 2-Hexanone	43				Compound Not Detected.		
67 Dibromochloromethane	129				Compound Not Detected.		
68 1,2-Dibromoethane	107				Compound Not Detected		
70 Chlorobenzene	112				Compound Not Detected.		
71 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.		
72 Ethylbenzene	106				Compound Not Detected.		
73 m + p-Xylene	106				Compound Not Detected.		
74 Xylene-o	106				Compound Not Detected.		
M 75 Xylenes (total)	106				Compound Not Detected.		
76 Styrene	104				Compound Not Detected.		
77 Bromoform	173				Compound Not Detected.		
78 Isopropylbenzene	105				Compound Not Detected.		
79 Bromobenzene	156				Compound Not Detected.		
81 n-Propylbenzene	120				Compound Not Detected.		
82 2-Chlorotoluene	126				Compound Not Detected.		
83 1,1,1,2,2-Tetrachloroethane	83				Compound Not Detected.		
84 1,2,3-Trichloropropane	110				Compound Not Detected		
85 4-Chlorotoluene	126				Compound Not Detected.		

Data File: \\gpitpa02\d\chem\hp4.i\40703d.b\WB40704.D
 Report Date: 03-Jul-2000 07:24

Page 3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
*****	****	--	*****	*****	*****	*****	*****
86 1,3,5-Trimethylbenzene	105				Compound Not Detected.		
87 tert-Butylbenzene	119				Compound Not Detected.		
88 1,2,4-Trimethylbenzene	105				Compound Not Detected.		
89 sec-Butylbenzene	105				Compound Not Detected.		
90 4-Isopropyltoluene	119				Compound Not Detected.		
91 1,3-Dichlorobenzene	146				Compound Not Detected.		
93 1,4-Dichlorobenzene	146				Compound Not Detected.		
94 n-Butylbenzene	91				Compound Not Detected.		
95 1,2-Dichlorobenzene	146				Compound Not Detected.		
96 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.		
97 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
98 Hexachlorobutadiene	225				Compound Not Detected.		
99 Naphthalene	128				Compound Not Detected.		
100 1,2,3-Trichlorobenzene	180				Compound Not Detected.		

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER Lab Sample ID: C0G030000 097
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)Sample WT/Vol: 5 / mL Date Received: 06/30/00
Work Order: DFNA0102 Date Extracted: 07/03/00
Dilution factor: 1 Date Analyzed: 07/03/00

QC Batch: 0185097

Client Sample Id: CHECK SAMPLE

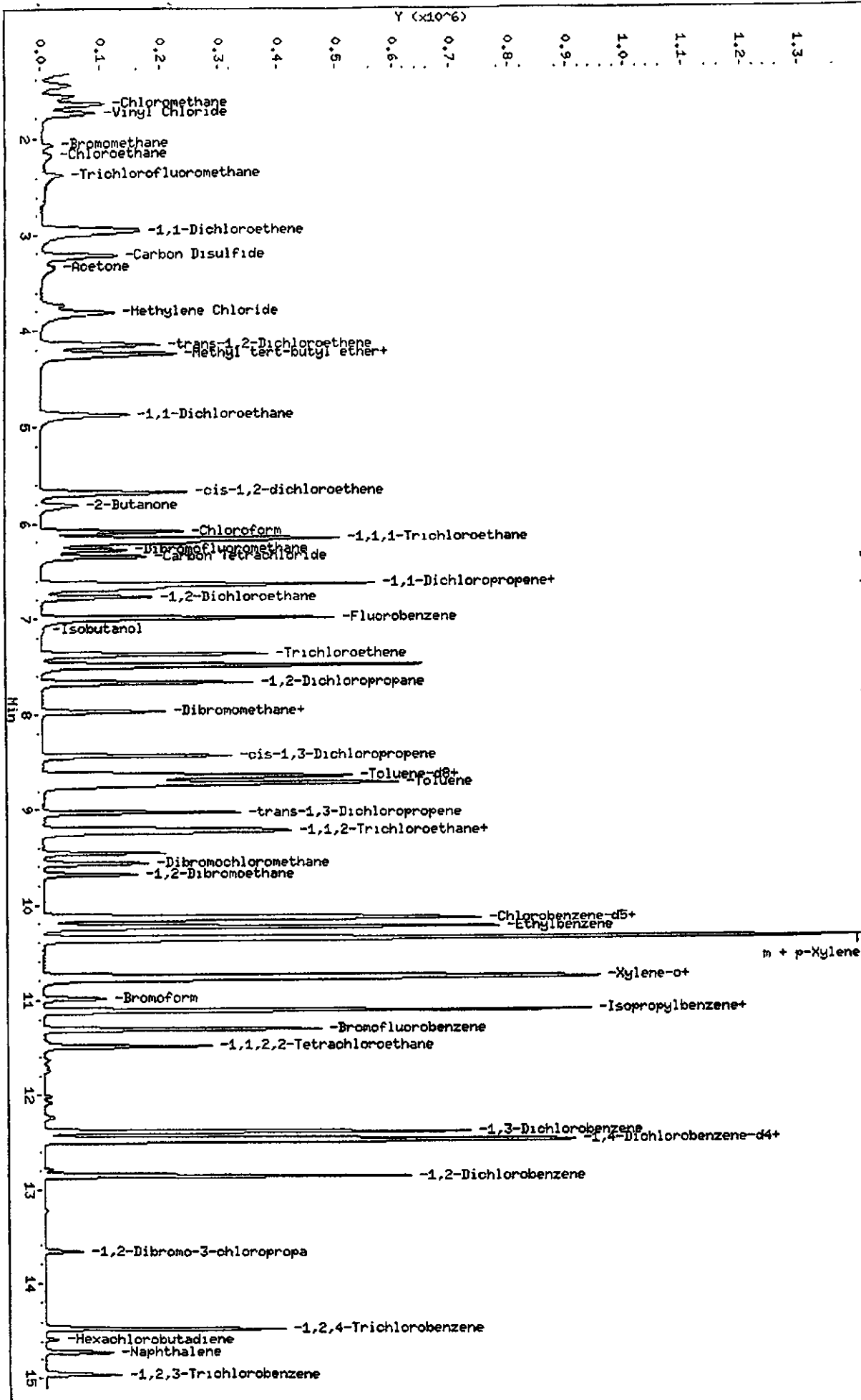
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
71-43-2	Benzene	55.0	
108-90-7	Chlorobenzene	52.8	
75-35-4	1,1-Dichloroethene	50.7	
108-88-3	Toluene	54.0	
79-01-6	Trichloroethene	54.3	

Data File: \\ppltpa02\chem\hpd.1\40703d.b\4070309.D
 Date : 03-JUL-2000 10:04
 Client ID: INTRA-LAB CHECK
 Sample Info: blank ms 5ml
 Volume injected (uL): 5.0
 Column phase: DB 624

Instrument: hpd.i

Operator: 10099
 Column diameter: 0.18

\\ppltpa02\chem\hpd.1\40703d.b\4070309.D



Data File: \\gpitpa02\d\chem\hp4.i\40703d.b\4070309.D
Report Date: 03-Jul-2000 12:23

Page 1

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\gpitpa02\d\chem\hp4.i\40703d.b\4070309.D
Lab Smp Id: DFNA0102 Client Smp ID: INTRA-LAB CHECK
Inj Date : 03-JUL-2000 10:04 MS Autotune Date: 16-DEC-1999 09:07
Operator : 10099 Inst ID: hp4.i
Smp Info : blank ms 5ml
Misc Info : dfna0102,40703d.b,8260Bh2o.M
Comment :
Method : \\gpitpa02\d\chem\hp4.i\40703d.b\8260Bh2o.m
Meth Date : 03-Jul-2000 06:46 gordonk Quant Type: ISTD
Cal Date : 06-JUN-2000 12:18 Cal File: 4c40606.d
Als bottle: 13 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC073

K6
7/3/00

Compound Sublist: 2-padep.sub

Concentration Formula: Amt * DF * (Vf/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vf	5.000	FinalVolume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.995	6.999	(1.000)	584835	250.000	
* 69 Chlorobenzene-d5	119	10.125	10.123	(1.000)	136723	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.454	12.458	(1.000)	234487	250.000	
\$ 39 Dibromofluoromethane	113	6.286	6.286	(0.899)	109565	257.433	51.49
\$ 43 1,2-Dichloroethane-d4	65	6.683	6.993	(0.955)	117051	259.530	51.91 (H)
\$ 59 Toluene-d8	98	8.646	8.643	(0.854)	525929	248.679	49.74
\$ 80 Bromofluorobenzene	95	11.305	11.309	(1.117)	208871	253.886	50.78
1 Dichlorodifluoromethane	85	1.463	1.463	(0.209)	98244	388.816	77.76
2 Chloromethane	50	1.658	1.625	(0.237)	189203	279.933	55.99
3 Vinyl Chloride	62	1.750	1.756	(0.250)	173619	306.947	61.39
4 Bromomethane	94	2.068	2.053	(0.296)	15390	232.900	46.58
5 Chloroethane	64	2.178	2.172	(0.311)	28563	328.459	65.69
6 Trichlorofluoromethane	101	2.367	2.361	(0.338)	51518	285.156	57.03
12 1,1-Dichloroethene	96	2.985	2.966	(0.427)	100473	253.674	50.73
13 Acetone	43	3.339	3.325	(0.477)	69963	545.690	109.1

K6
7/3/00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
15 Carbon Disulfide	76	3.223	3.581	(0.461)	329325	278.430	55.69
18 Methylene Chloride	84	3.810	3.826	(0.545)	132019	272.577	54.52
19 trans-1,2-Dichloroethene	96	4.152	4.140	(0.594)	153189	300.984	60.20
20 Methyl tert-butyl ether	73	4.250	4.254	(0.608)	356047	319.993	64.00
22 Acrylonitrile	53	4.250	4.401	(0.608)	4069	16.5193	3.304
24 1,1-Dichloroethane	63	4.874	4.868	(0.697)	255220	286.840	57.37
27 2,2-Dichloropropane	77	Compound Not Detected.					
28 cis-1,2-dichloroethene	96	5.675	5.675	(0.811)	161436	272.557	54.51
M 29 1,2-Dichloroethene (total)	100				314625	571.390	114.3
30 Bromochloromethane	128	Compound Not Detected.					
31 2-Butanone	43	5.809	5.807	(0.830)	137140	275.114	55.02
37 Chloroform	83	6.090	6.090	(0.871)	232352	283.799	56.76
38 1,1,1-Trichloroethane	97	6.213	6.206	(0.888)	180022	279.184	55.84
40 1,1-Dichloropropene	75	6.647	6.408	(0.950)	10372	15.3075	3.062
41 Carbon Tetrachloride	117	6.353	6.347	(0.908)	140222	283.926	56.78
42 Benzene	78	6.641	6.650	(0.949)	642012	274.736	54.95
44 Isobutanol	41	7.124	6.797	(1.018)	1010	69.7232	13.94
45 1,2-Dichloroethane	62	6.775	6.999	(0.969)	164211	287.103	57.42
47 Trichloroethene	130	7.380	7.380	(1.055)	153343	271.374	54.27
49 1,2-Dichloropropane	63	7.674	7.674	(1.097)	159381	278.192	55.64
50 Dibromomethane	93	7.967	7.796	(1.139)	3962	13.6183	2.724
53 Bromodichloromethane	83	7.967	7.973	(1.139)	152191	264.370	52.87
57 cis-1,3-Dichloropropene	75	8.432	8.438	(1.205)	198887	228.303	45.66
58 4-Methyl-2-Pentanone	43	8.621	8.633	(0.851)	162689	334.520	66.90
60 Toluene	91	8.719	8.723	(0.861)	700559	270.145	54.03
61 trans-1,3-Dichloropropene	75	9.031	9.031	(0.892)	189515	252.131	50.43
63 1,3-Dichloropropane	76	Compound Not Detected.					
64 1,1,2-Trichloroethane	97	9.208	9.208	(0.909)	129241	263.464	52.69
65 Tetrachloroethene	164	9.239	9.233	(0.912)	112122	273.900	54.78
66 2-Hexanone	43	8.621	9.077	(0.851)	163764	495.023	99.00 (H)
67 Dibromochloromethane	129	9.563	9.569	(0.944)	105438	266.954	53.39
68 1,2-Dibromoethane	107	9.679	9.685	(0.956)	125035	268.820	53.76
70 Chlorobenzene	112	10.150	10.156	(1.002)	438153	264.050	52.81
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 Ethylbenzene	106	10.235	10.233	(1.011)	252178	273.561	54.71
73 m + p-Xylene	106	10.358	10.349	(1.023)	617888	562.797	112.6
74 Xylene-o	106	10.755	10.758	(1.062)	300163	275.895	55.18
M 75 Xylenes (total)	106				918051	843.827	168.8
76 Styrene	104	10.779	10.785	(1.065)	487004	272.528	54.50
77 Bromoform	173	10.981	10.987	(1.085)	53646	249.599	49.92
78 Isopropylbenzene	105	11.109	11.113	(1.097)	772059	291.449	58.29
79 Bromobenzene	156	Compound Not Detected.					
81 n-Propylbenzene	120	11.109	11.516	(0.892)	214668	236.994	47.40
82 2-Chlorotoluene	126	Compound Not Detected.					
83 1,1,2,2-Tetrachloroethane	83	11.488	11.488	(0.922)	169223	233.521	46.70
84 1,2,3-Trichloropropane	110	Compound Not Detected.					
85 4-Chlorotoluene	126	Compound Not Detected.					

K6
7/3/00

Data File: \\qpitpa02\d\chem\hp4.i\40703d.b\4070309.D
 Report Date: 03-Jul-2000 12:23

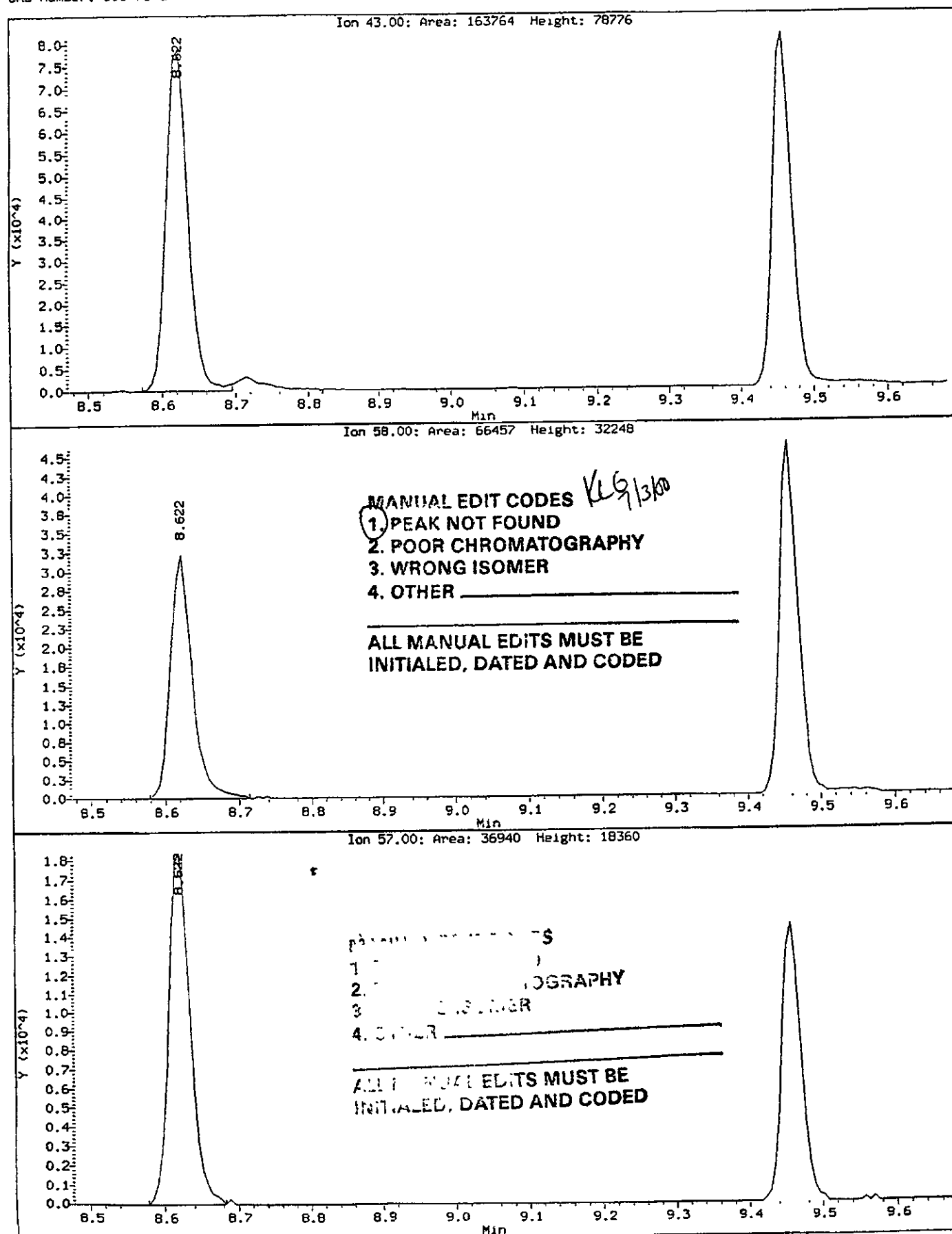
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
86 1,3,5-Trimethylbenzene	105				Compound Not Detected.		
87 tert-Butylbenzene	119				Compound Not Detected.		
88 1,2,4-Trimethylbenzene	105				Compound Not Detected.		
89 sec-Butylbenzene	105				Compound Not Detected.		
90 4-Isopropyltoluene	119				Compound Not Detected.		
91 1,3-Dichlorobenzene	146	12.381	12.391	(0.994)	343362	255.276	51.06
93 1,4-Dichlorobenzene	146	12.479	12.482	(1.002)	342566	248.162	49.63
94 n-Butylbenzene	91				Compound Not Detected.		
95 1,2-Dichlorobenzene	146	12.858	12.849	(1.032)	305581	238.504	47.70
96 1,2-Dibromo-3-chloropropane	157	13.659	13.656	(1.097)	17404	190.051	38.01
97 1,2,4-Trichlorobenzene	180	14.460	14.457	(1.161)	135224	222.406	44.48
98 Hexachlorobutadiene	225	14.576	14.579	(1.170)	4058	12.9259	2.585
99 Naphthalene	128	14.710	14.714	(1.181)	99789	81.5364	16.31
100 1,2,3-Trichlorobenzene	180	14.961	14.958	(1.201)	42162	99.4928	19.90

QC Flag Legend

H - Operator selected an alternate compound hit.

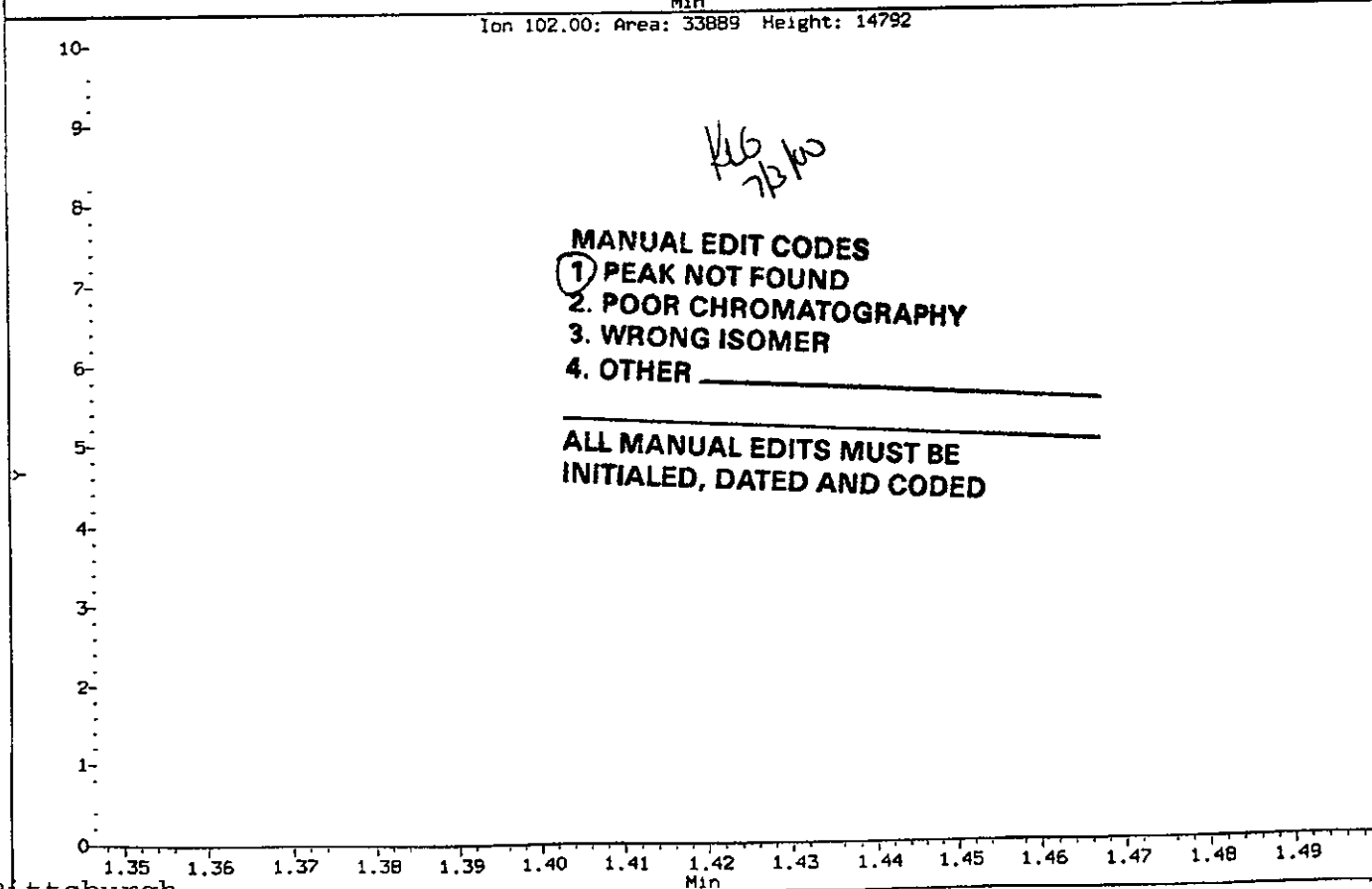
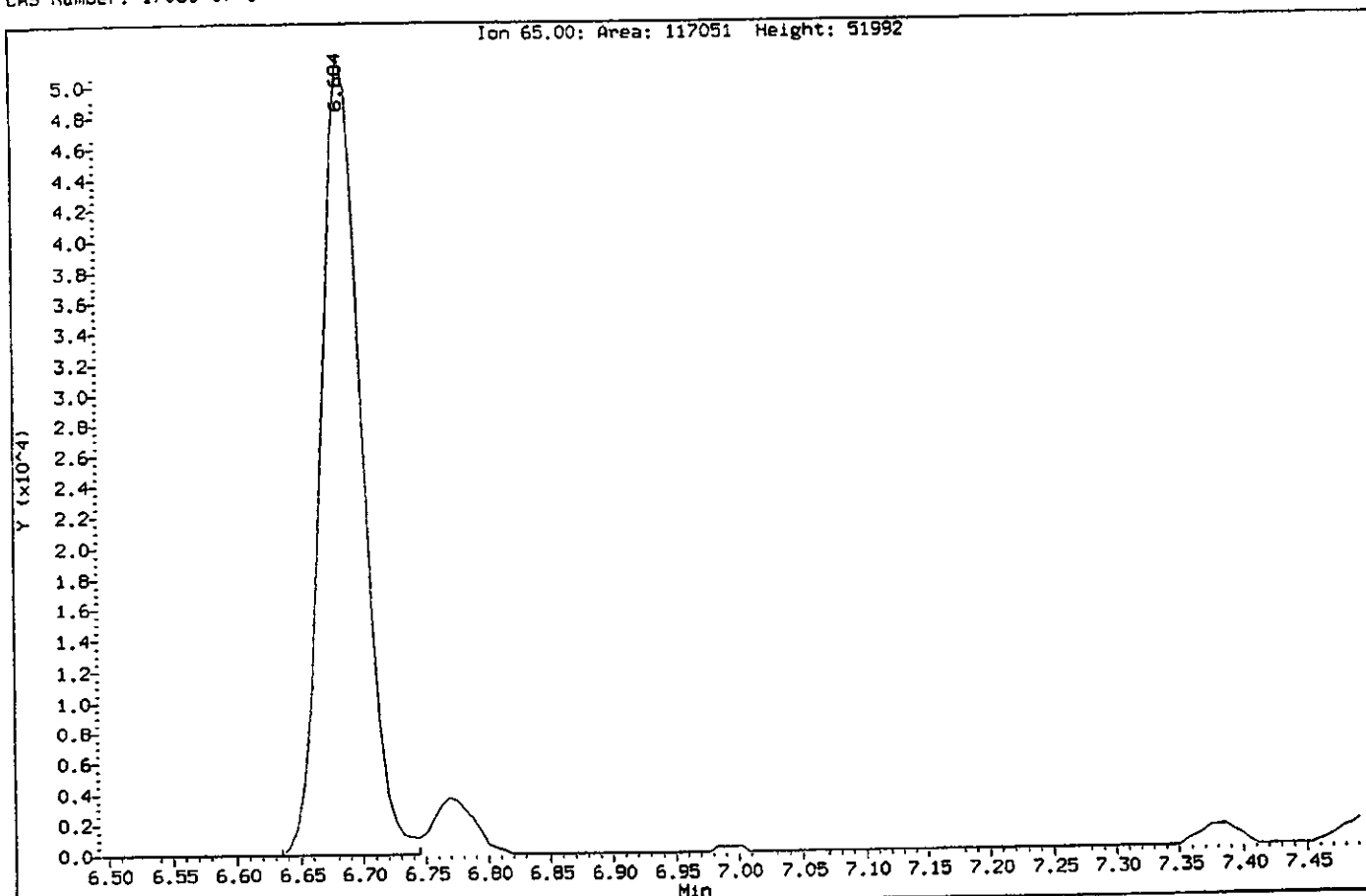
Data File: \\qpitpa02\d\chem\hp4.1\40703d.b\4070309.D
 Injection Date: 03-JUL-2000 10:04
 Instrument: hp4.1
 Client Sample ID: INTRA-LAB CHECK

Compound: 2-Hexanone
 CAS Number: 591-78-6



Data File: \\qpitpa02\d\chem\hp4.1\40703d.b\4070309.D
Injection Date: 03-JUL-2000 10:04
Instrument: hp4.1
Client Sample ID:

Compound: 1,2-Dichloroethane-d4
CAS Number: 17060-07-0



**GC/MS VOLATILE
MISCELLANEOUS**

Analyst: Ko

Reviewed by:

Date:

Method No.: 8240-H2O

Instrument ID:

Methanol Lot No.:

Std: 192-140-14 BFD

Std: 192-140-9 DMT

Std: 192-140-10 Sum

Std: 192-140-10 Kd

Std: 192-144-1 C2/mms

192-142-5A4

192-142-4 Ac666

192-142-6 Vm1 A4H

192-141-5 Apple

192-144-2 V/A

Date	Run No.	Lot No./ Sample No.	Vol./Wt	pH	Port No.	Comments
6/6/00	1. BF406062	BFD	1.0			905
	2. CC406062	VSD50	5.0			VC, 1.1-Dec 1
	3. IC406062	VSD50 Sum	5.0			
	4. 2C406062	VSD50	5.0			
	5. CF406060	BFD	1.0			1058
	6. 4A406060	VSD5	5.0			
	7. 4B406060	VSD20	5.0			
	8. 4C406060	VSD50	5.0			
	9. 4B406060	VSD100	5.0			
	10. 4E406060	VSD200	5.0			
	11.					
	12.					
	13.					
	14.					
	15.					
	16.					
	17.					
	18.					
	19.					
	20.					
	21.					
	22.					



GCMS Volatile

Run Log

Method: 820B

Inst. ID HP4



STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8360

Analyst KG

Reviewed by:

Date:

Std: 192.185.1BFB Std: 192.184.3Lut
Std: 192.185.12MBE/152 Std: 192.182.3MS

Std: 192.184.4Sur

Std: 192.184.2VOA

Std: 192.183.10Ketones

Date	File ID	Lot No./Sample No.	Vol./Wt.	pH	Port#	Comments
7/3/00	1. BF40703	BFB	50mg			0532
	2. C040703	VSID50	5ml			
	3. C40703	VSID50 Bonus	5ml			
	4. C040703	VBULK	5ml			
	5. C070301	C0F300204.001	5ml	1		7B062900.01
	6. C070303	C0F260107.001	5ml	7		
	7. C070303	C0F300207.001	5ml	1		
	8. C070304	C0F300252.001	5ml	1		
	9. C070305	C0F300252.003	5ml	1		
	10. C070306	C0F300252.001 MS	5ml			
	11. C070307	C0F300252.001 MS	5ml	1		
	12. C070308	C0F300252.001 MSB	5ml	1		
	13. C070309	Blank MS	5ml			
	14. C070312	C0F300252.002	5ml	1		
	15. C070313	C0F300243.001	5ml	1		
	16. C070314	C0F300252.001	5ml	1		
	17. C070315	C0F300243.001	5ml	1		
	18. C070316	C0F300243.002	5ml	1		
	19. C070317	C0F300243.003	5ml	1		
	20.					
	21.					
	22.					

REQUESTED BY: GORDONK

METHOD: QK Volatile Organics, GC/MS (8260B)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SPX	MATRIX DESCRIPTION	QTY	
										RCVD	REQD
2D CLP1	DFKQ3-1-01		247385	399411	I-15-QK C0F300207	001			WATER	0	13 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

CLP1
Larry Gordon

Larry Gordon
NYS

7/3/00 0530

7/3/00 1230

***** END OF REPORT *****

GC/MS SEMIVOLATILE DATA

**GC/MS SEMIVOLATILE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0F300207

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/S1/0181/IDW/001	63	79	71	85	59	63	00
02	METHOD BLK. DFN9J101	64	70	67	85	60	81	00
03	LCS DFN9J102	77	76	72	86	54	85	00
04	LCSD DFN9J103	78	80	72	88	55	87	00

SURROGATES

SRG01 = Phenol-d5
 SRG02 = 2-Fluorobiphenyl
 SRG03 = Nitrobenzene-d5
 SRG04 = Terphenyl-d14
 SRG05 = 2-Fluorophenol
 SRG06 = 2,4,6-Tribromophenol

QC LIMITS

(10-113)
 (30-110)
 (32-112)
 (10-144)
 (13-110)
 (21-122)

Column to be used to flag recovery values
 * Values outside of required QC Limits
 D System monitoring Compound diluted out

FORM II

SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G030000

WO #: DFN9J102

BATCH: 0185092

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	52.4	70	10- 131	
2-Chlorophenol	75.0	57.2	76	19- 124	
1,4-Dichlorobenzene	50.0	36.7	73	28- 110	
N-Nitrosodi-n-propylamine	50.0	39.6	79	30- 115	
1,2,4-Trichlorobenzene	50.0	35.2	70	31- 110	
4-Chloro-3-methylphenol	75.0	59.4	79	29- 124	
Acenaphthene	50.0	40.1	80	39- 118	
4-Nitrophenol	75.0	51.6	69	19- 144	
2,4-Dinitrotoluene	50.0	37.7	75	47- 131	
Pentachlorophenol	75.0	59.9	80	10- 140	
Pyrene	50.0	38.7	77	46- 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G030000

WO #: DFN9J103

BATCH: 0185092

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	53.4	71	10 - 131	
2-Chlorophenol	75.0	56.8	76	19 - 124	
1,4-Dichlorobenzene	50.0	36.6	73	28 - 110	
N-Nitrosodi-n-propylamine	50.0	38.2	76	30 - 115	
1,2,4-Trichlorobenzene	50.0	36.1	72	31 - 110	
4-Chloro-3-methylphenol	75.0	58.5	78	29 - 124	
Acenaphthene	50.0	41.6	83	39 - 118	
4-Nitrophenol	75.0	52.8	70	19 - 144	
2,4-Dinitrotoluene	50.0	38.6	77	47 - 131	
Pentachlorophenol	75.0	59.5	79	10 - 140	
Pyrene	50.0	38.7	77	46 - 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

BLANK WORKORDER NO.

SW846 8270C METHOD BLANK SUMMARY

DFN9J101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D0705001.

Lot Number: C0F300207

Date Analyzed: 07/05/00

Time Analyzed: 13:21

Matrix: WATER

Date Extracted: 07/01/00

GC Column: HP5MS ID: .25

Extraction Method: 3520C

Instrument ID: 721

Level: (low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DF/S1/0181/IDW/001	DFKQ3102	D0705002.	07/05/00	13:50
02	CHECK SAMPLE	DFN9J102 C	D0703018.	07/03/00	18:22
03	DUPLICATE CHECK	DFN9J103 L	D0703019.	07/03/00	18:52
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

663 184

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: -

Lab File ID: D0626DF3

DFTPP Injection Date: 06/26/00

Instrument ID: 721

DFTPP Injection Time: 1413

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	58.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	46.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.1
275	10.0 - 30.0% of mass 198	22.7
365	Greater than 1.0% of mass 198	2.49
441	Present, but less than mass 443	12.6
442	Greater than 40.0% of mass 198	70.7
443	17.0 - 23.0% of mass 442	14.6 (20.6)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD50	D0626CC1	06/26/00	1434
02	SSTD020	SSTD20	D0626CC2	06/26/00	1504
03	SSTD080	SSTD80	D0626CC3	06/26/00	1534
04	SSTD120	SSTD120	D0626CC4	06/26/00	1604
05	SSTD160	SSTD160	D0626CC5	06/26/00	1634
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

663 185

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID: D0703DFT

DFTPP Injection Date: 07/03/00

Instrument ID: 721

DFTPP Injection Time: 0910

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	51.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.6
275	10.0 - 30.0% of mass 198	25.1
365	Greater than 1.0% of mass 198	2.48
441	Present, but less than mass 443	12.6
442	Greater than 40.0% of mass 198	80.9
443	17.0 - 23.0% of mass 442	17.6 (21.7)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD50	D0703CCC	07/03/00	0930
02	INTRA-LAB CH	DFN9J102	D0703018	07/03/00	1822
03	INTRA-LAB CH	DFN9J103	D0703019	07/03/00	1852
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

663 186

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID: D0705DF2

DFTPP Injection Date: 07/05/00

Instrument ID: 721

DFTPP Injection Time: 1230

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	47.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	25.7
365	Greater than 1.0% of mass 198	3.28
441	Present, but less than mass 443	12.4
442	Greater than 40.0% of mass 198	77.7
443	17.0 - 23.0% of mass 442	14.8 (19.0)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD50	D0705CCC	07/05/00	1251
02	INTRA-LAB BL	DFN9J101	D0705001	07/05/00	1321
03	DF/SI/0181/I	DFKQ3102	D0705002	07/05/00	1350
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

663 187

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID (Standard): D0703CCC

Date Analyzed: 07/03/00

Instrument ID: 721

Time Analyzed: 0930

	IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (ANT)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	106782	4.60	366356	5.82	205085	8.38
UPPER LIMIT	213564	5.10	732712	6.32	410170	8.88
LOWER LIMIT	53391	4.10	183178	5.32	102543	7.88
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB CH	96980	4.60	395365	5.82	232886	8.38
02 INTRA-LAB CH	102238	4.60	408487	5.82	233666	8.38
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

663 188

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID (Standard): D0703CCC

Date Analyzed: 07/03/00

Instrument ID: 721

Time Analyzed: 0930

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	364931	11.26	338717	17.09	242882	20.05
UPPER LIMIT	729862	11.76	677434	17.59	485764	20.55
LOWER LIMIT	182466	10.76	169359	16.59	121441	19.55
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB CH	446832	11.25	435598	17.08	375311	20.04
02 INTRA-LAB CH	453246	11.26	446213	17.08	381908	20.04
03						
04						
05						
06						
07						
08						
09						
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11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

663 189

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID (Standard): D0705CCC

Date Analyzed: 07/05/00

Instrument ID: 721

Time Analyzed: 1251

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	107308	4.58	367360	5.79	195034	8.35
UPPER LIMIT	214616	5.08	734720	6.29	390068	8.85
LOWER LIMIT	53654	4.08	183680	5.29	97517	7.85
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	118660	4.57	432024	5.79	232952	8.34
02 DF/SI/0181/I	109139	4.57	370840	5.79	176292	8.34
03						
04						
05						
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17						
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19						
20						
21						
22						

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

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

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

663 190

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT Case No.:

SAS No.:

SDG No.: C0F300207

Lab File ID (Standard): D0705CCC

Date Analyzed: 07/05/00

Instrument ID: 721

Time Analyzed: 1251

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	340000	11.22	321544	17.05	249198	20.02
UPPER LIMIT	680000	11.72	643088	17.55	498396	20.52
LOWER LIMIT	170000	10.72	160772	16.55	124599	19.52
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	424824	11.22	389183	17.05	330076	20.01
02 DF/SI/0181/I	279533	11.22	221504	17.05	190612	20.02
03						
04						
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17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

**GC/MS SEMIVOLATILE
SAMPLE DATA**

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3102

Date Extracted: 07/01/00

Dilution factor: 4

Date Analyzed: 07/05/00

QC Batch: 0185092

Client Sample Id: DF/S1/0181/IDW/001

		CONCENTRATION UNITS:		
CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
110-86-1	Pyridine	80		U
83-32-9	Acenaphthene	40		U
208-96-8	Acenaphthylene	40		U
120-12-7	Anthracene	40		U
56-55-3	Benzo(a)anthracene	40		U
50-32-8	Benzo(a)pyrene	40		U
205-99-2	Benzo(b)fluoranthene	40		U
207-08-9	Benzo(k)fluoranthene	40		U
191-24-2	Benzo(ghi)perylene	40		U
111-91-1	bis(2-Chloroethoxy)methane	40		U
111-44-4	bis(2-Chloroethyl) ether	40		U
117-81-7	bis(2-Ethylhexyl) phthalate	130		
101-55-3	4-Bromophenyl phenyl ether	40		U
85-68-7	Butyl benzyl phthalate	40		U
86-74-8	Carbazole	40		U
106-47-8	4-Chloroaniline	40		U
59-50-7	4-Chloro-3-methylphenol	40		U
91-58-7	2-Chloronaphthalene	40		U
95-57-8	2-Chlorophenol	40		U
7005-72-3	4-Chlorophenyl phenyl ether	40		U
218-01-9	Chrysene	40		U
53-70-3	Dibenz(a,h)anthracene	40		U
132-64-9	Dibenzofuran	40		U
95-50-1	1,2-Dichlorobenzene	40		U
541-73-1	1,3-Dichlorobenzene	40		U
106-46-7	1,4-Dichlorobenzene	40		U
91-94-1	3,3'-Dichlorobenzidine	200		U
120-83-2	2,4-Dichlorophenol	40		U

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3102

Date Extracted: 07/01/00

Dilution factor: 4

Date Analyzed: 07/05/00

QC Batch: 0185092

Client Sample Id: DF/S1/0181/IDW/001

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/L	Q
84-66-2	Diethyl phthalate	40		U
105-67-9	2,4-Dimethylphenol	40		U
131-11-3	Dimethyl phthalate	40		U
84-74-2	Di-n-butyl phthalate	40		U
117-84-0	Di-n-octyl phthalate	40		U
51-28-5	2,4-Dinitrophenol	200		U
534-52-1	4,6-Dinitro-2-methylphenol	200		U
121-14-2	2,4-Dinitrotoluene	40		U
606-20-2	2,6-Dinitrotoluene	40		U
206-44-0	Fluoranthene	40		U
86-73-7	Fluorene	40		U
118-74-1	Hexachlorobenzene	40		U
87-68-3	Hexachlorobutadiene	40		U
77-47-4	Hexachlorocyclopentadiene	200		U
67-72-1	Hexachloroethane	40		U
193-39-5	Indeno(1,2,3-cd)pyrene	40		U
78-59-1	Isophorone	40		U
91-57-6	2-Methylnaphthalene	40		U
95-48-7	2-Methylphenol	40		U
106-44-5	4-Methylphenol	40		U
91-20-3	Naphthalene	40		U
88-74-4	2-Nitroaniline	200		U
99-09-2	3-Nitroaniline	200		U
100-01-6	4-Nitroaniline	200		U
98-95-3	Nitrobenzene	40		U
88-75-5	2-Nitrophenol	40		U
100-02-7	4-Nitrophenol	200		U
621-64-7	N-Nitrosodi-n-propylamine	40		U

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3102

Date Extracted: 07/01/00

Dilution factor: 4

Date Analyzed: 07/05/00

QC Batch: 0185092

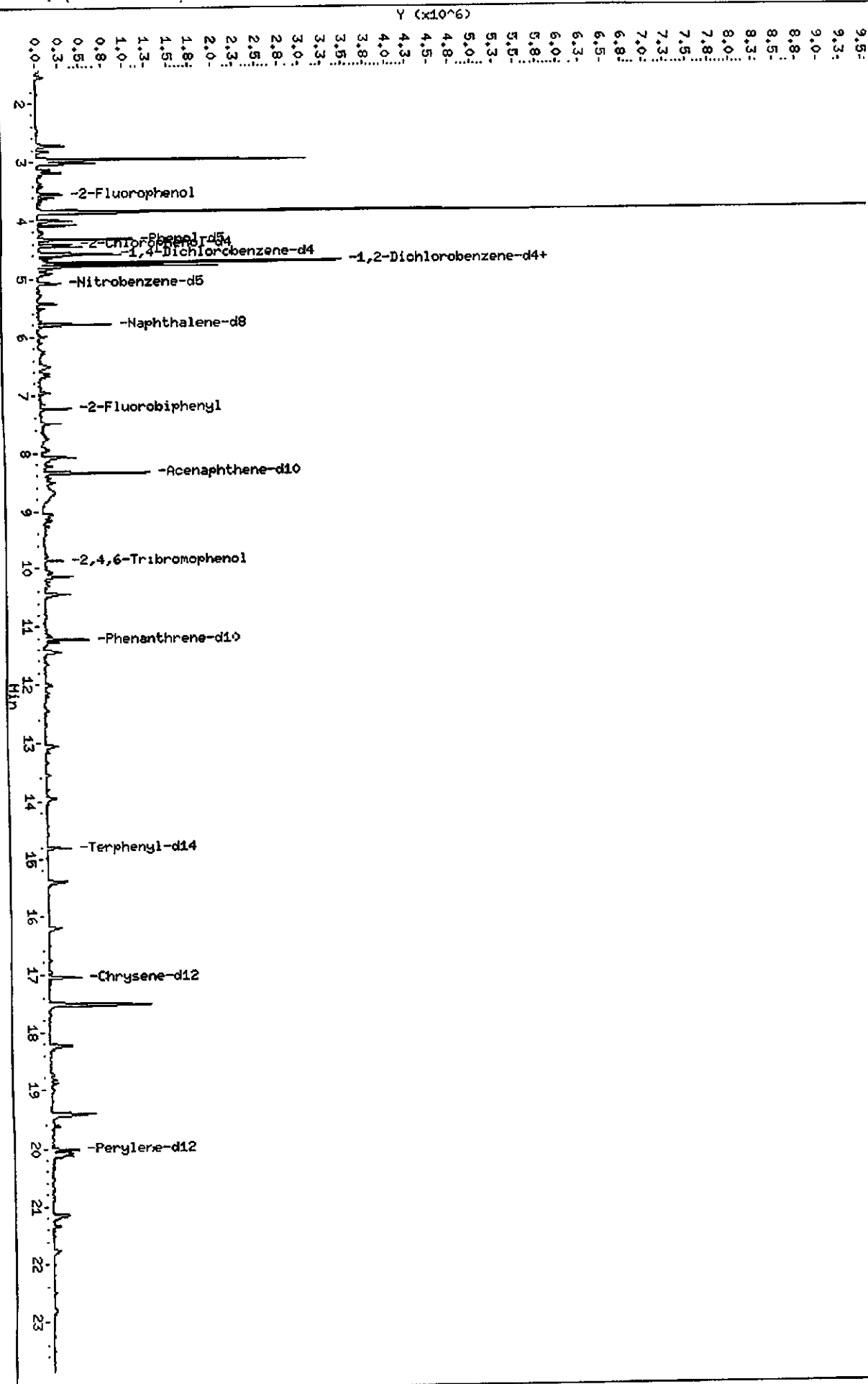
Client Sample Id: DF/S1/0181/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	40	U
108-60-1	2,2'-oxybis(1-Chloropropane)	40	U
87-86-5	Pentachlorophenol	200	U
85-01-8	Phenanthrene	40	U
108-95-2	Phenol	40	U
129-00-0	Pyrene	40	U
120-82-1	1,2,4-Trichlorobenzene	40	U
95-95-4	2,4,5-Trichlorophenol	40	U
88-06-2	2,4,6-Trichlorophenol	40	U

Data File: \NQPITPA02\chem\721.i\4070500.b\00705002.D
Date: 05-JUL-2000 13:50
Client ID: DF/SI/0181/IDM/001
Sample Info: 00F300207-001 4x h2o 7/1/00 82700
Volume Injected (uL): 2.0
Column phase: He5-HS

Instrument: 721.i
Operator: 001562, DJF
Column diameter: 0.25

\\NQPITPA02\chem\721.i\4070500.b\00705002.D



STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270
Data file : \\QPITPA02\D\chem\721.i\d070500.b\D0705002.D
Lab Smp Id: DFKQ3102 Client Smp ID: DF/SI/0181/IDW/001
Inj Date : 05-JUL-2000 13:50
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0f300207-001 4x h2o 7/1/00 8270c
Misc Info : dfkq3102,d070500.b,8270c.m,3-root.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d070500.b\8270c.m
Meth Date : 05-Jul-2000 13:39 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 14:34 Cal File: D0626CC1.D
Als bottle: 4
Dil Factor: 4.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

pk 2
7-5-00

Compound Sublist: 3-root.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	4.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(NG)	(ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.573	4.576	(1.000)	109139	40.0000	(Q)
* 2 Naphthalene-d8	136	5.789	5.792	(1.000)	370840	40.0000	
* 3 Acenaphthene-d10	164	8.342	8.345	(1.000)	176292	40.0000	
* 4 Phenanthrene-d10	188	11.218	11.221	(1.000)	279533	40.0000	
* 5 Chrysene-d12	240	17.051	17.053	(1.000)	221504	40.0000	
* 6 Perylene-d12	264	20.020	20.023	(1.000)	190612	40.0000	
10 N-Nitrosodimethylamine	74						
9 Pyridine	79						
16 Methyl methanesulfonate	80						
21 Aniline	93						
22 Phenol	94						
23 bis(2-Chloroethyl) ether	93						
24 2-Chlorophenol	128						
26 1,3-Dichlorobenzene	146						

Data File: \\QPITPA02\D\chem\721.i\d070500.b\D0705002.D
Report Date: 05-Jul-2000 15:44

Page 2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
28 1,2-Dichlorobenzene	146				Compound Not Detected.		
29 Benzyl Alcohol	108	4 721	4.717	(1.032)	23341	10.8475	21.695 (aQ) -- NA
30 2-Methylphenol	108				Compound Not Detected.		
31 2,2'-oxybis(1-Chloropropane)	45				Compound Not Detected.		
32 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
41 Isophorone	82				Compound Not Detected.		
42 2-Nitrophenol	139				Compound Not Detected.		
43 2,4-Dimethylphenol	107				Compound Not Detected.		
44 bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
48 2,4-Dichlorophenol	162				Compound Not Detected.		
49 Benzoic Acid	122				Compound Not Detected.		
50 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
51 Naphthalene	128				Compound Not Detected.		
52 4-Chloroaniline	127				Compound Not Detected.		
56 Hexachlorobutadiene	224				Compound Not Detected.		
59 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
62 2-Methylnaphthalene	142				Compound Not Detected.		
63 1-Methylnaphthalene	142				Compound Not Detected.		
64 Hexachlorocyclopentadiene	236				Compound Not Detected.		
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
70 2-Chloronaphthalene	162				Compound Not Detected.		
73 2-Nitroaniline	65				Compound Not Detected.		
76 Dimethylphthalate	163				Compound Not Detected.		
78 2,6-Dinitrotoluene	165				Compound Not Detected.		
79 Acenaphthylene	152				Compound Not Detected.		
81 3-Nitroaniline	138				Compound Not Detected.		
82 Acenaphthene	153				Compound Not Detected.		
83 2,4-Dinitrophenol	184				Compound Not Detected.		
85 4-Nitrophenol	109				Compound Not Detected.		
86 Dibenzofuran	168				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
91 2,3,5,6-Tetrachlorophenol	231				Compound Not Detected.		
88 2,3,4,6-Tetrachlorophenol	231				Compound Not Detected.		
92 2-Naphthylamine	143				Compound Not Detected.		
93 Diethylphthalate	149				Compound Not Detected.		
94 Fluorene	166				Compound Not Detected.		
95 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
96 4-Nitroaniline	138				Compound Not Detected.		
98 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
99 N-Nitrosodiphenylamine (1)	169				Compound Not Detected.		
100 1,2-Diphenylhydrazine	77				Compound Not Detected.		
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		

Data File: \\QPITPA02\D\chem\721.i\d070500.b\D0705002.D
Report Date: 05-Jul-2000 15:44

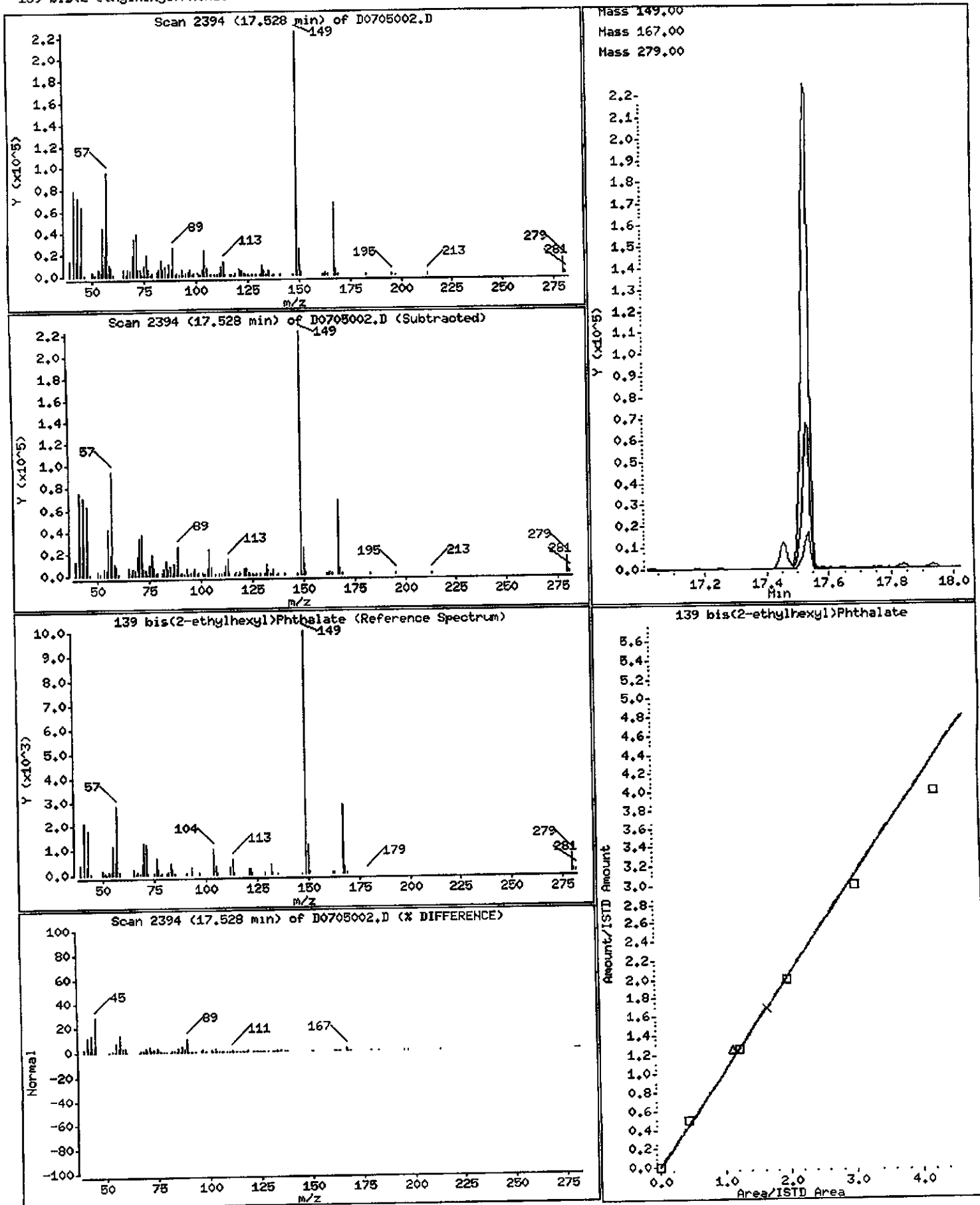
Page 3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
123 Fluoranthene	202				Compound Not Detected.		
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202				Compound Not Detected.		
131 Butylbenzylphthalate	149				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149	17.528	17.517	(1.028)	364912	67.4315	134.86
140 Di-n-octylphthalate	149	18.838	18.834	(0.941)	67321	6.63116	13.262(a) < MDL
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz[a]anthracene	256				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.084	5.086	(0.878)	70037	17.8388	35.678(a)
\$ 155 2-Fluorobiphenyl	172	7.234	7.243	(0.867)	116982	19.8288	39.658(a)
\$ 156 Terphenyl-d14	244	14.813	14.809	(0.869)	116403	21.2284	42.457
\$ 157 Phenol-d5	99	4.338	4.334	(0.949)	86799	23.7586	47.517(Q)
\$ 158 2-Fluorophenol	112	3.538	3.528	(0.774)	65586	21.9924	43.985
\$ 159 2,4,6-Tribromophenol	330	9.868	9.857	(0.880)	30677	23.5267	47.053
\$ 186 2-Chlorophenol-d4	132	4.418	4.421	(0.966)	96248	25.6982	51.396
\$ 187 1,2-Dichlorobenzene-d4	152	4.741	4.737	(1.037)	49250	18.2651	36.530(aQ)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

139 bis(2-ethylhexyl)Phthalate



**GC/MS SEMIVOLATILE
CALIBRATION DATA**

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: -

Instrument ID: 721

Calibration Date(s): 06/26/00

Min $\overline{RRF}$ for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1	=D0626CC2.D	RRF2	=D0626CC1.D			
RRF3		=D0626CC3.D	RRF4	=D0626CC4.D	RRF5	=D0626CC5.D		
COMPOUND		RRF1	RRF2	RRF3	RRF4	RRF5	RRF	% RSD
Phenol	*	1.354	1.490	1.535	1.524	1.587	1.498	5.9*
bis(2-Chloroethyl) ether		0.957	1.083	1.089	1.054	1.097	1.056	5.5
2-Chlorophenol		1.368	1.498	1.493	1.486	1.571	1.483	4.9
1,3-Dichlorobenzene		1.437	1.548	1.526	1.536	1.578	1.525	3.5
1,4-Dichlorobenzene	*	1.539	1.683	1.620	1.642	1.705	1.638	3.9*
1,2-Dichlorobenzene		1.400	1.590	1.548	1.616	1.749	1.581	8.0
2-Methylphenol		0.950	1.046	1.026	0.978	1.038	1.008	4.1
2,2'-oxybis(1-Chloropropane		1.190	1.295	1.297	1.250	1.297	1.266	3.7
4-Methylphenol		1.054	1.158	1.226	1.173	1.251	1.172	6.5
Hexachloroethane		0.692	0.750	0.736	0.716	0.794	0.738	5.2
Nitrobenzene		0.390	0.434	0.448	0.449	0.457	0.436	6.1
Isophorone		0.611	0.657	0.687	0.658	0.651	0.653	4.2
2-Nitrophenol	*	0.208	0.230	0.231	0.231	0.237	0.227	4.9*
2,4-Dimethylphenol		0.337	0.388	0.401	0.397	0.403	0.385	7.2
bis(2-Chloroethoxy) methane		0.332	0.352	0.358	0.354	0.366	0.352	3.6
N-Nitroso-di-n-propylamine	#	0.865	0.928	0.944	0.877	0.921	0.907	3.7#
2,4-Dichlorophenol	*	0.293	0.324	0.323	0.337	0.352	0.326	6.7*
1,2,4-Trichlorobenzene		0.336	0.361	0.367	0.370	0.384	0.364	4.9
Naphthalene		0.991	1.096	1.117	1.144	1.185	1.107	6.6
4-Chloroaniline		0.415	0.446	0.465	0.454	0.459	0.448	4.4
Hexachlorobutadiene	*	0.243	0.276	0.277	0.291	0.304	0.278	8.2*
4-Chloro-3-Methylphenol		0.302	0.329	0.345	0.328	0.315	0.324	5.0
2-Methylnaphthalene		0.644	0.714	0.742	0.752	0.767	0.724	6.7
Hexachlorocyclopentadiene	#	0.531	0.571	0.557	0.591	0.630	0.576	6.5#
2,4,6-Trichlorophenol	*	0.426	0.456	0.438	0.445	0.470	0.447	3.7*
2,4,5-Trichlorophenol		0.458	0.499	0.482	0.458	0.495	0.478	4.1
2-Chloronaphthalene		1.155	1.272	1.277	1.339	1.419	1.292	7.5
2-Nitroaniline		0.444	0.454	0.463	0.437	0.429	0.445	3.0
Dimethylphthalate		1.505	1.541	1.583	1.443	1.493	1.513	3.5
Acenaphthylene		1.799	1.899	1.881	1.875	1.948	1.880	2.9
2,6-Dinitrotoluene		0.358	0.370	0.380	0.360	0.370	0.368	2.4
3-Nitroaniline		0.340	0.375	0.396	0.372	0.378	0.372	5.4
Acenaphthene	*	1.088	1.183	1.162	1.157	1.174	1.153	3.3*
2,4-Dinitrophenol	#	0.207	0.264	0.283	0.262	0.275	0.258	11.5#
4-Nitrophenol	#	0.383	0.401	0.413	0.384	0.412	0.399	3.7#
Dibenzofuran		1.638	1.724	1.730	1.726	1.786	1.721	3.1
2,4-Dinitrotoluene		0.458	0.487	0.514	0.465	0.491	0.483	4.7

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

663 202

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: -

Instrument ID: 721

Calibration Date(s): 06/26/00

Min $\overline{RRF}$ for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1 =D0626CC2.D	RRF2 =D0626CC1.D				
RRF3 =D0626CC3.D		RRF4 =D0626CC4.D	RRF5 =D0626CC5.D				
COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
Diethylphthalate	1.705	1.761	1.897	1.791	1.915	1.814	5.0
4-Chlorophenyl-phenylether	0.677	0.745	0.771	0.769	0.799	0.752	6.2
Fluorene	1.287	1.388	1.479	1.449	1.536	1.428	6.7
4-Nitroaniline	0.355	0.366	0.393	0.351	0.352	0.363	4.8
4,6-Dinitro-2-methylphenol	0.159	0.179	0.191	0.188	0.198	0.183	8.2
N-Nitrosodiphenylamine (1)	0.484	0.492	0.516	0.557	0.570	0.524	7.3*
4-Bromophenyl-phenylether	0.210	0.235	0.243	0.249	0.264	0.240	8.2
Hexachlorobenzene	0.275	0.300	0.317	0.325	0.336	0.311	7.6
Pentachlorophenol	0.168	0.198	0.210	0.213	0.224	0.203	10.6*
Phenanthrene	0.940	1.045	1.076	1.076	1.123	1.052	6.5
Anthracene	0.967	1.056	1.096	1.086	1.140	1.069	6.0
Carbazole	0.816	0.888	0.955	0.930	0.963	0.910	6.6
Di-n-Butylphthalate	1.342	1.452	1.583	1.531	1.593	1.500	7.0
Fluoranthene	0.993	1.108	1.203	1.146	1.176	1.125	7.3*
Pyrene	1.102	1.179	1.164	1.212	1.250	1.181	4.7
Butylbenzylphthalate	0.644	0.690	0.681	0.703	0.718	0.687	4.0
3,3'-Dichlorobenzidine	0.421	0.455	0.482	0.489	0.513	0.472	7.5
Benzo(a)Anthracene	0.995	1.043	1.090	1.098	1.139	1.073	5.2
Chrysene	0.902	1.007	1.034	1.050	1.126	1.024	7.9
bis(2-ethylhexyl)Phthalate	0.863	0.968	0.978	1.010	1.066	0.977	7.6
Di-n-octylphthalate	1.818	2.087	2.109	2.217	2.420	2.130	10.3*
Benzo(b)fluoranthene	1.138	1.263	1.461	1.672	1.970	1.501	22.1
Benzo(k)fluoranthene	1.218	1.435	1.381	1.277	1.298	1.322	6.5
Benzo(a)pyrene	1.001	1.156	1.200	1.200	1.305	1.172	9.4*
Indeno(1,2,3-cd)pyrene	0.948	1.129	1.227	1.222	1.360	1.177	12.9
Dibenz(a,h)anthracene	0.999	1.212	1.296	1.300	1.452	1.252	13.2
Benzo(g,h,i)perylene	0.953	1.096	1.156	1.103	1.187	1.099	8.2
Pyridine	0.741	0.843	0.790	0.781	0.771	0.785	4.8
N-Nitrosodimethylamine	0.448	0.538	0.478	0.474	0.470	0.482	7.0
Aniline	1.544	1.494	1.668	1.664	1.720	1.618	5.9
Benzyl Alcohol	0.744	0.775	0.810	0.785	0.829	0.789	4.1
Benzoic Acid	0.218	0.238	0.240	0.256	0.262	0.243	7.2
1-Methylnaphthalene	0.602	0.651	0.670	0.686	0.692	0.660	5.5
2,3,4,6-Tetrachlorophenol	0.417	0.433	0.472	0.452	0.461	0.447	5.0
2,3,5,6-Tetrachlorophenol	0.407	0.428	0.451	0.433	0.446	0.433	4.0

Contract:

SDG No. : -

Calibration Date(s): 06/26/00

Max %RSD for CCC(*) = 30.0%

2026

INITIAL CALIBRATION REPORT

Instrument ID: 721.i
 Lab File ID: D0626CC1.D
 Analysis Type: NONE

Injection Date: 26-JUN-2000 14:34
 Lab Sample ID: sstd50
 Method File: \\QPITPA02\D\chem\721.i\d062600.b\8270c.

COMPOUND	%RSD
Pyridine	4.8
N-Nitrosodimethylamine	7.0
Methyl methanesulfonate	9.8
2-Fluorophenol	1.3
Phenol-d5	3.9
Phenol	5.9
Aniline	5.9
bis(2-Chloroethyl)ether	5.5
2-Chlorophenol-d4	4.4
2-Chlorophenol	4.9
1,3-Dichlorobenzene	3.5
1,4-Dichlorobenzene	3.9
Benzyl Alcohol	4.1
1,2-Dichlorobenzene-d4	8.7
1,2-Dichlorobenzene	8.0
2-Methylphenol	4.1
2,2'-oxybis(1-Chloropropane)	3.7
4-Methylphenol	6.5
N-Nitroso-di-n-propylamine	3.7
Hexachloroethane	5.2
Nitrobenzene-d5	4.8
Nitrobenzene	6.1
Isophorone	4.2
2-Nitrophenol	4.9
2,4-Dimethylphenol	7.2
bis(2-Chloroethoxy)methane	3.6
Benzoic Acid	7.2
2,4-Dichlorophenol	6.7
1,2,4-Trichlorobenzene	4.9
Naphthalene	6.6
4-Chloroaniline	4.4
Hexachlorobutadiene	8.2
4-Chloro-3-Methylphenol	5.0
2-Methylnaphthalene	6.7
1-Methylnaphthalene	5.5
Hexachlorocyclopentadiene	6.5
2,4,6-Trichlorophenol	3.7
2,4,5-Trichlorophenol	4.1
2-Fluorobiphenyl	3.8

INITIAL CALIBRATION REPORT

Instrument ID: 721.i
Lab File ID: D0626CC1.D
Analysis Type: NONE

Injection Date: 26-JUN-2000 14:34
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d062600.b

COMPOUND	%RSD
2-Chloronaphthalene	7.5
2-Nitroaniline	3.0
Dimethylphthalate	3.5
Acenaphthylene	2.9
2,6-Dinitrotoluene	2.4
3-Nitroaniline	5.4
Acenaphthene	3.3
2,4-Dinitrophenol	11.5
4-Nitrophenol	3.7
Dibenzofuran	3.1
2,4-Dinitrotoluene	4.7
2,3,5,6-Tetrachlorophenol	4.0
2-Naphthylamine	13.9
2,3,4,6-Tetrachlorophenol	5.0
Diethylphthalate	5.0
Fluorene	6.7
4-Chlorophenyl-phenylether	6.2
4-Nitroaniline	4.8
4,6-Dinitro-2-methylphenol	8.2
N-Nitrosodiphenylamine (1)	7.3
1,2-Diphenylhydrazine	8.5
2,4,6-Tribromophenol	9.5
4-Bromophenyl-phenylether	8.2
Hexachlorobenzene	7.6
Pentachlorophenol	10.6
Phenanthrene	6.5
Anthracene	6.0
Carbazole	6.6
Di-n-Butylphthalate	7.0
Fluoranthene	7.3
Benzidine	6.0
Pyrene	4.7
Terphenyl-d14	7.5
Butylbenzylphthalate	4.0
Benzo(a)Anthracene	5.2
3,3'-Dichlorobenzidine	7.5
Chrysene	7.9
bis(2-ethylhexyl)Phthalate	7.6
Di-n-octylphthalate	10.3

INITIAL CALIBRATION REPORT

Instrument ID: 721.i
Lab File ID: D0626CC1.D
Analysis Type: NONE

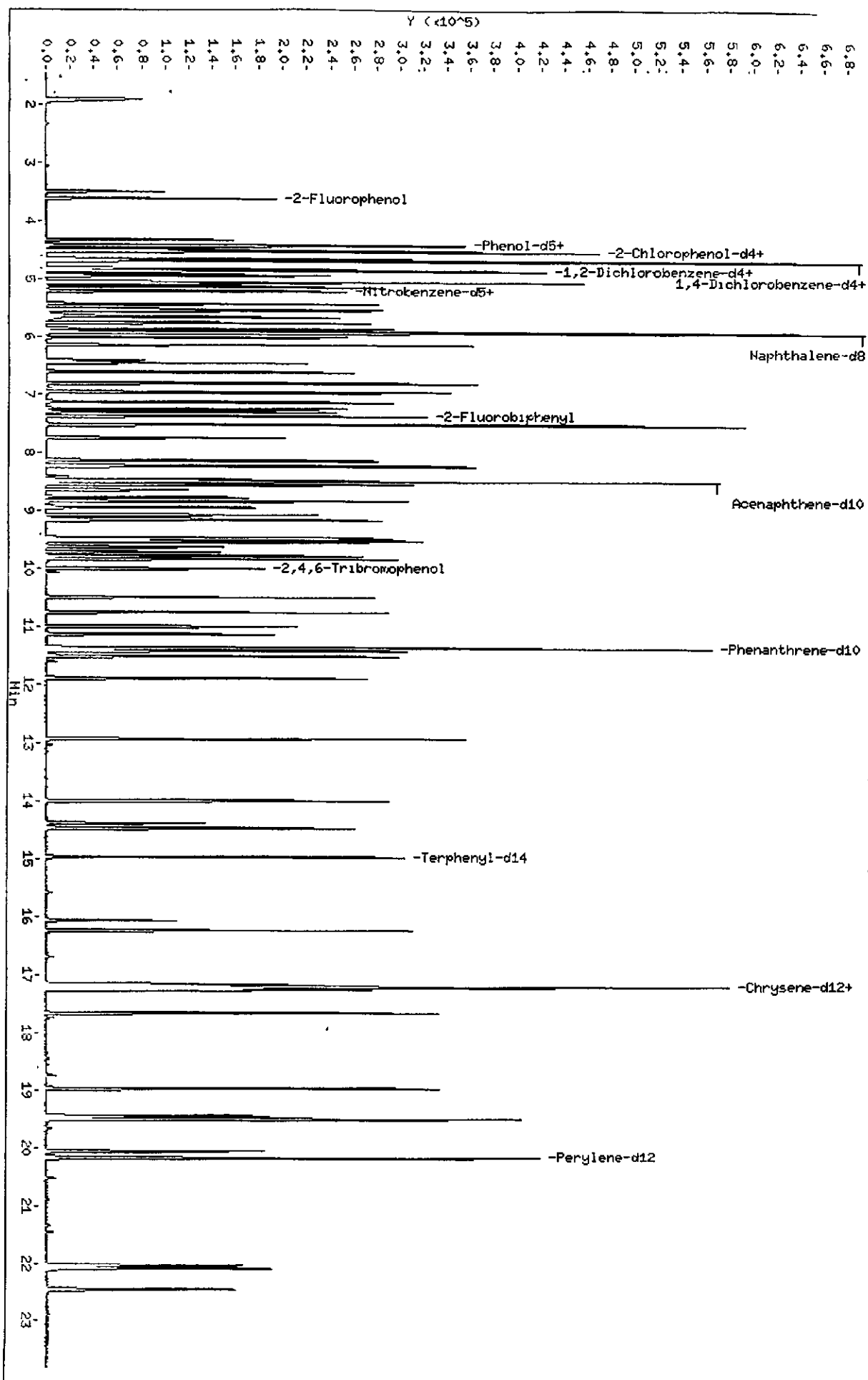
Injection Date: 26-JUN-2000 14:34
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d062600.b

COMPOUND	%RSD
=====	=====
Benzo(b)fluoranthene	22.1
Benzo(k)fluoranthene	6.5
7,12-dimethylbenz[a]anthracen	17.0
Benzo(a)pyrene	9.4
Indeno(1,2,3-cd)pyrene	12.9
Dibenz(a,h)anthracene	13.2
Benzo(g,h,i)perylene	8.2

The average of all %RSD's in the initial calibration is 6.5

Data File: \\OPITPA02\JN\chem\721.1\062600.b\0626002.D
 Date: 26-JUN-2000 15:04
 Client ID: SST0020
 Sample Info: sst0020 (10UG/ML) 194-175-10 8270/clp/625
 Column phase: Hp5-MS

Instrument: 721.1
 Operator: 001562, DLF
 Column diameter: 0.25



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STL Pittsburgh

Semivolatiles REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d062600.b\D0626CC2.D
Lab Smp Id: sstd20 Client Smp ID: SSTD020
Inj Date : 26-JUN-2000 15:04
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd020 (10UG/ML) 194-175-10 8270/clp/625
Misc Info : sstd20,d062600.b,8270c.m,3-root.sub,1,1
Comment :
Method : \\QPITPA02\D\chem\721.i\d062600.b\8270c.m
Meth Date : 27-Jun-2000 08:06 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 15:04 Cal File: D0626CC2.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

DLF
6-27-00

Compound Sublist: 3-root.sub

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.679	4.679	(1.000)	92473	40 0000	
* 2 Naphthalene-d8	136	5.915	5.915	(1.000)	345938	40 0000	
* 3 Acenaphthene-d10	164	8.502	8.502	(1.000)	190784	40 0000	
* 4 Phenanthrene-d10	188	11.385	11.385	(1.000)	382583	40 0000	
* 5 Chrysene-d12	240	17.224	17.224	(1.000)	337295	40 0000	
* 6 Perylene-d12	264	20.187	20.187	(1.000)	268105	40 0000	
10 N-Nitrosodimethylamine	74	1.911	1.911	(0.408)	20696	20 0000	18.173 (Q)
9 Pyridine	79	1.891	1.891	(0.404)	34263	20.0000	18 709
16 Methyl methanesulfonate	80	3.496	3.496	(0.747)	45747	20.0000	22 394
21 Aniline	93	4.437	4.437	(0.948)	71395	20 0000	20.333 (Q)
22 Phenol	94	4.417	4.417	(0.944)	62582	20.0000	19.038 (Q)
23 bis(2-Chloroethyl)ether	93	4.491	4.491	(0.960)	44255	20 0000	18 766
24 2-Chlorophenol	128	4.524	4.524	(0.967)	63261	20.0000	19 097
26 1,3-Dichlorobenzene	146	4.645	4.645	(0.993)	66438	20.0000	19 254
27 1,4-Dichlorobenzene	146	4.692	4.692	(1.003)	71162	20.0000	19.105
28 1,2-Dichlorobenzene	146	4.854	4.854	(1.037)	64736	20.0000	18 728
29 Benzyl Alcohol	108	4.807	4.807	(1.027)	34418	20 0000	19 597
30 2-Methylphenol	108	4.921	4.921	(1.052)	43932	20 0000	19 041
31 2,2'-oxybis(1-Chloropropane)	45	4.948	4.948	(1.057)	55044	20 0000	19.157
32 N-Nitroso-di-n-propylamine	70	5.075	5.075	(1.085)	40016	20.0000	19 307
192 4-Methylphenol	108	5.042	5.042	(1.078)	48731	20.0000	19 063
34 Hexachloroethane	117	5.129	5.129	(1.096)	31973	20.0000	19.182
35 Nitrobenzene	77	5.210	5.210	(0.881)	67531	20 0000	18 939
41 Isophorone	82	5.432	5.432	(0.918)	105748	20 0000	19 275
42 2-Nitrophenol	139	5.526	5.526	(0.934)	35932	20 0000	18 992
43 2,4-Dimethylphenol	107	5.546	5.546	(0.938)	58316	20.0000	18 608

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	=====	==	=====	=====	=====	=====	=====
44 bis(2-Chloroethoxy)methane	93	5.660	5.660	(0.957)	57363	20.0000	19.388
48 2,4-Dichlorophenol	162	5.761	5.761	(0.974)	50751	20.0000	18.998
49 Benzoic Acid	122	5.660	5.660	(0.957)	37654	20.0000	19.128 (M)
50 1,2,4-Trichlorobenzene	180	5.862	5.862	(0.991)	58058	20.0000	19.266
51 Naphthalene	128	5.935	5.935	(1.003)	171467	20.0000	18.995
52 4-Chloroaniline	127	6.009	6.009	(1.016)	71762	20.0000	19.264
56 Hexachlorobutadiene	225	6.144	6.144	(1.039)	42015	20.0000	18.736 (Q)
59 4-Chloro-3-Methylphenol	107	6.607	6.607	(1.117)	52163	20.0000	19.130
62 2-Methylnaphthalene	142	6.802	6.802	(1.150)	111377	20.0000	18.964
63 1-Methylnaphthalene	142	6.957	6.957	(1.176)	104194	20.0000	19.222
64 Hexachlorocyclopentadiene	237	7.132	7.132	(0.839)	50630	20.0000	19.272
66 2,4,6-Trichlorophenol	196	7.246	7.246	(0.852)	40680	20.0000	19.327
67 2,4,5-Trichlorophenol	196	7.299	7.299	(0.859)	43654	20.0000	19.134
70 2-Chloronaphthalene	162	7.521	7.521	(0.885)	110201	20.0000	19.036
73 2-Nitroaniline	65	7.743	7.743	(0.911)	42357	20.0000	19.765
76 Dimethylphthalate	163	8.133	8.133	(0.957)	143527	20.0000	19.762
78 2,6-Dinitrotoluene	165	8.240	8.240	(0.969)	34155	20.0000	19.667
79 Acenaphthylene	152	8.220	8.220	(0.967)	171585	20.0000	19.456
81 3-Nitroaniline	138	8.469	8.469	(0.996)	32473	20.0000	19.020
82 Acenaphthene	153	8.556	8.556	(1.006)	103816	20.0000	19.162
83 2,4-Dinitrophenol	184	8.643	8.643	(1.017)	19757	20.0000	17.571
85 4-Nitrophenol	109	8.778	8.778	(1.032)	36511	20.0000	19.539
86 Dibenzofuran	168	8.838	8.838	(1.040)	156242	20.0000	19.486
87 2,4-Dinitrotoluene	165	8.946	8.946	(1.052)	43715	20.0000	19.385
91 2,3,5,6-Tetrachlorophenol	232	9.073	9.073	(1.067)	38798	20.0000	19.485
88 2,3,4,6-Tetrachlorophenol	232	9.161	9.161	(1.077)	39754	20.0000	19.622
92 2-Naphthylamine	143	9.141	9.141	(1.075)	88359	20.0000	21.282
93 Diethylphthalate	149	9.470	9.470	(1.114)	162608	20.0000	19.676
94 Fluorene	166	9.497	9.497	(1.117)	122814	20.0000	19.250
95 4-Chlorophenyl-phenylether	204	9.530	9.530	(1.121)	64546	20.0000	19.042
96 4-Nitroaniline	138	9.624	9.624	(1.132)	33889	20.0000	19.700
98 4,6-Dinitro-2-methylphenol	198	9.718	9.718	(0.854)	30394	20.0000	18.816
99 N-Nitrosodiphenylamine (1)	169	9.786	9.786	(0.860)	92531	20.0000	19.830
100 1,2-Diphenylhydrazine	77	9.833	9.833	(0.864)	158222	20.0000	19.393
106 4-Bromophenyl-phenylether	248	10.498	10.498	(0.922)	40226	20.0000	18.892
107 Hexachlorobenzene	284	10.760	10.760	(0.945)	52655	20.0000	19.124
111 Pentachlorophenol	266	11.143	11.143	(0.979)	32139	20.0000	18.365 (Q)
115 Phenanthrene	178	11.425	11.425	(1.004)	179860	20.0000	18.945
116 Anthracene	178	11.519	11.519	(1.012)	185047	20.0000	19.118
119 Carbazole	167	11.902	11.902	(1.045)	156124	20.0000	19.162 (Q)
120 Di-n-Butylphthalate	149	12.937	12.937	(1.136)	256815	20.0000	19.218
123 Fluoranthene	202	14.005	14.005	(1.230)	189976	20.0000	18.910
124 Benzidine	184	14.388	14.388	(0.835)	75839	20.0000	20.347
125 Pyrene	202	14.476	14.476	(0.840)	185796	20.0000	19.324
131 Butylbenzylphthalate	149	16.249	16.249	(0.943)	108693	20.0000	19.323
135 3,3'-Dichlorobenzidine	252	17.244	17.244	(1.001)	71012	20.0000	19.229
136 Benzo(a)Anthracene	228	17.177	17.177	(0.997)	167814	20.0000	19.527

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	====	==	=====	=====	=====	=====	=====
137 Chrysene	228	17 271	17 271	(1 003)	152214	20 0000	18.903
139 bis (2-ethylhexyl)Phthalate	149	17 667	17 667	(1 026)	145612	20 0000	18.852
140 Di-n-octylphthalate	149	18 977	18 977	(0 940)	243746	20 0000	18 624
141 Benzo(b)fluoranthene	252	19 455	19 455	(0 964)	152505	20 0000	18 957
142 Benzo(k)fluoranthene	252	19 508	19 508	(0 966)	163307	20 0000	18 364
143 7,12-dimethylbenz[a]anthracen	256	19 515	19 515	(0 967)	68899	20 0000	17 892
146 Benzo(a)pyrene	252	20 066	20 066	(0 994)	134182	20 0000	18 561
149 Indeno(1,2,3-cd)pyrene	276	22 041	22 041	(1 092)	127148	20 0000	18.264
150 Dibenzo(a,h)anthracene	278	22 095	22 095	(1 095)	133930	20 0000	18 072
151 Benzo(g,h,i)perylene	276	22 458	22 458	(1 113)	127763	20 0000	18.602
\$ 154 Nitrobenzene-d5	82	5 196	5 196	(0 878)	67200	20.0000	19 082
\$ 155 2-Fluorobiphenyl	172	7 373	7 373	(0.867)	120440	20 0000	19 188
\$ 156 Terphenyl-d14	244	14.973	14.973	(0 869)	149356	20 0000	18 981
\$ 157 Phenol-d5	99	4 410	4 410	(0 943)	58754	20.0000	19 690
\$ 158 2-Fluorophenol	112	3 611	3 611	(0.772)	50511	20.0000	19 965
\$ 159 2,4,6-Tribromophenol	330	10.007	10 007	(0 879)	31268	20 0000	19 326
\$ 186 2-Chlorophenol-d4	132	4 511	4 511	(0 964)	59805	20 0000	19 630
\$ 187 1,2-Dichlorobenzene-d4	152	4 840	4 840	(1.034)	39704	20 0000	18.676

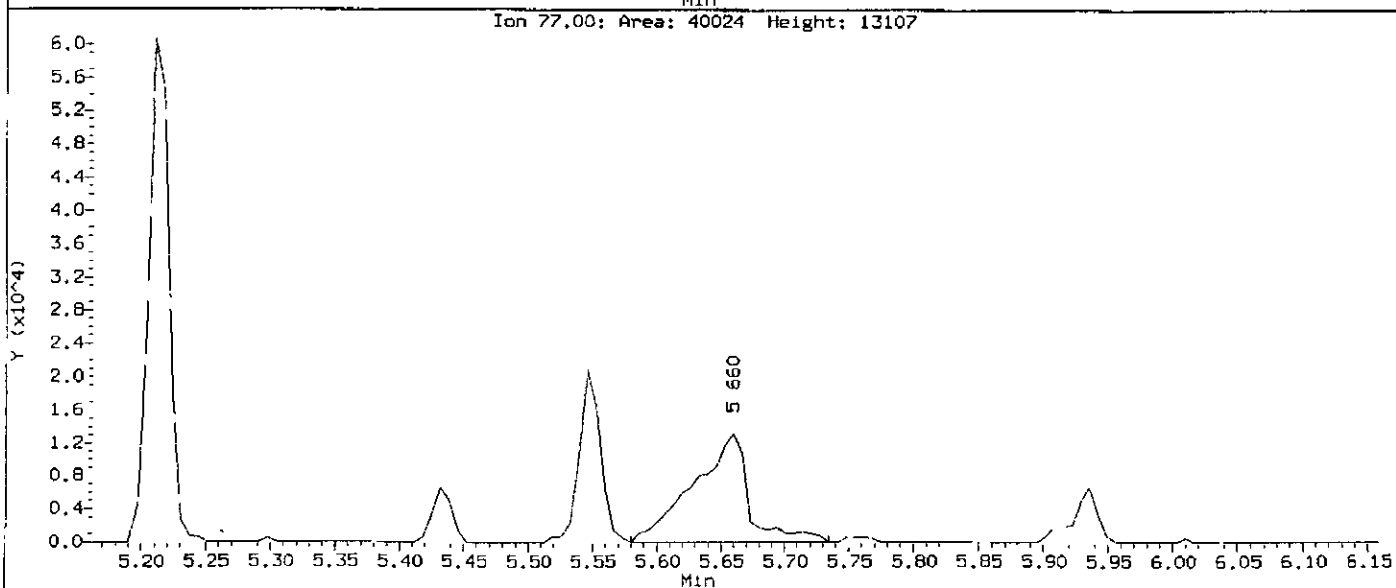
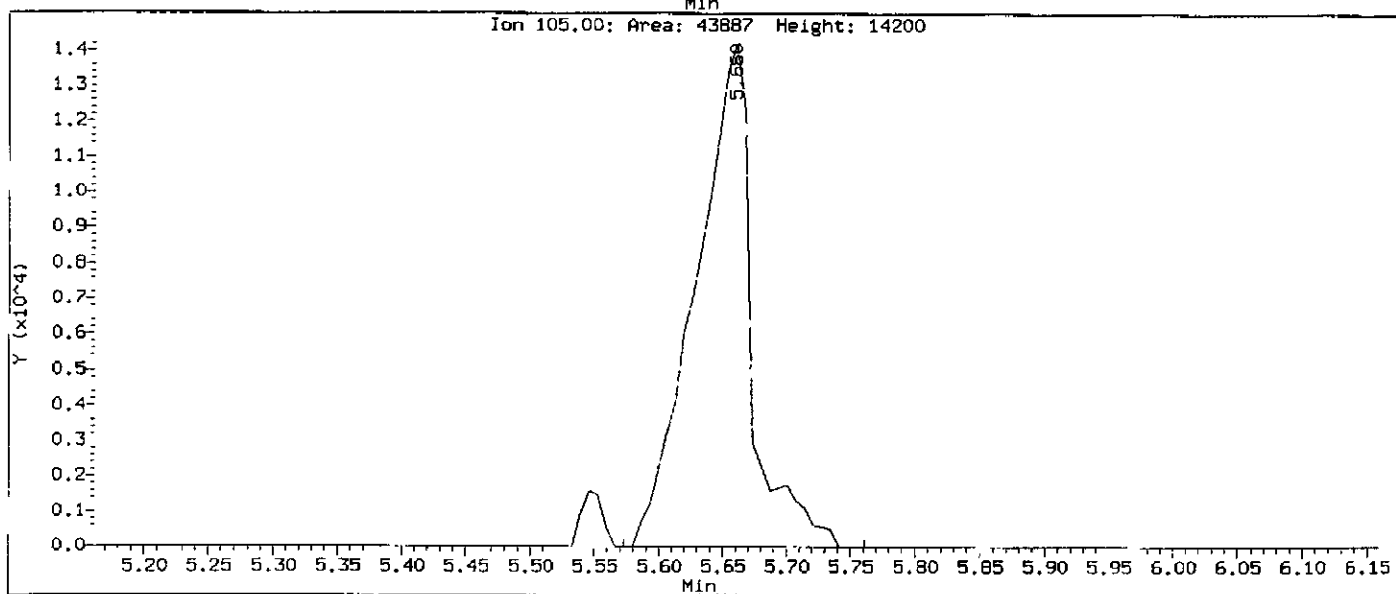
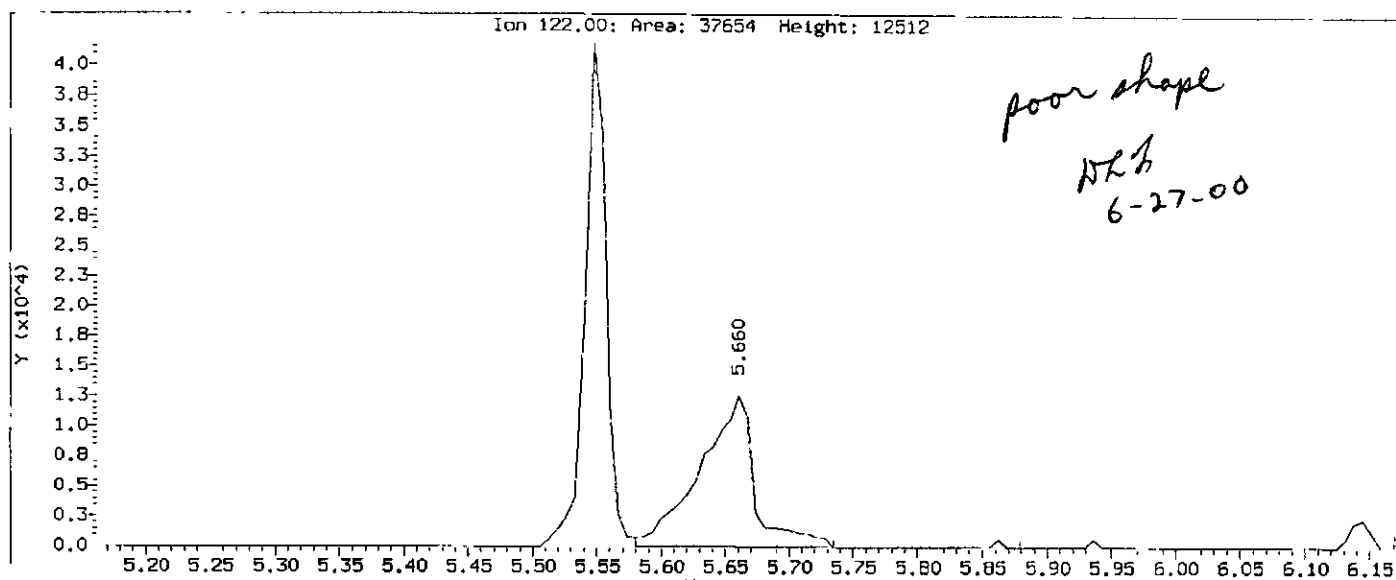
QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.

Data File: \\QPITPA02\D\chem\721.1\d062600.b\D0626CC2.D
Injection Date: 26-JUN-2000 15:04
Instrument: 721.1
Client Sample ID:

663 211

Compound: Benzoic Acid
CAS Number: 65-85-0

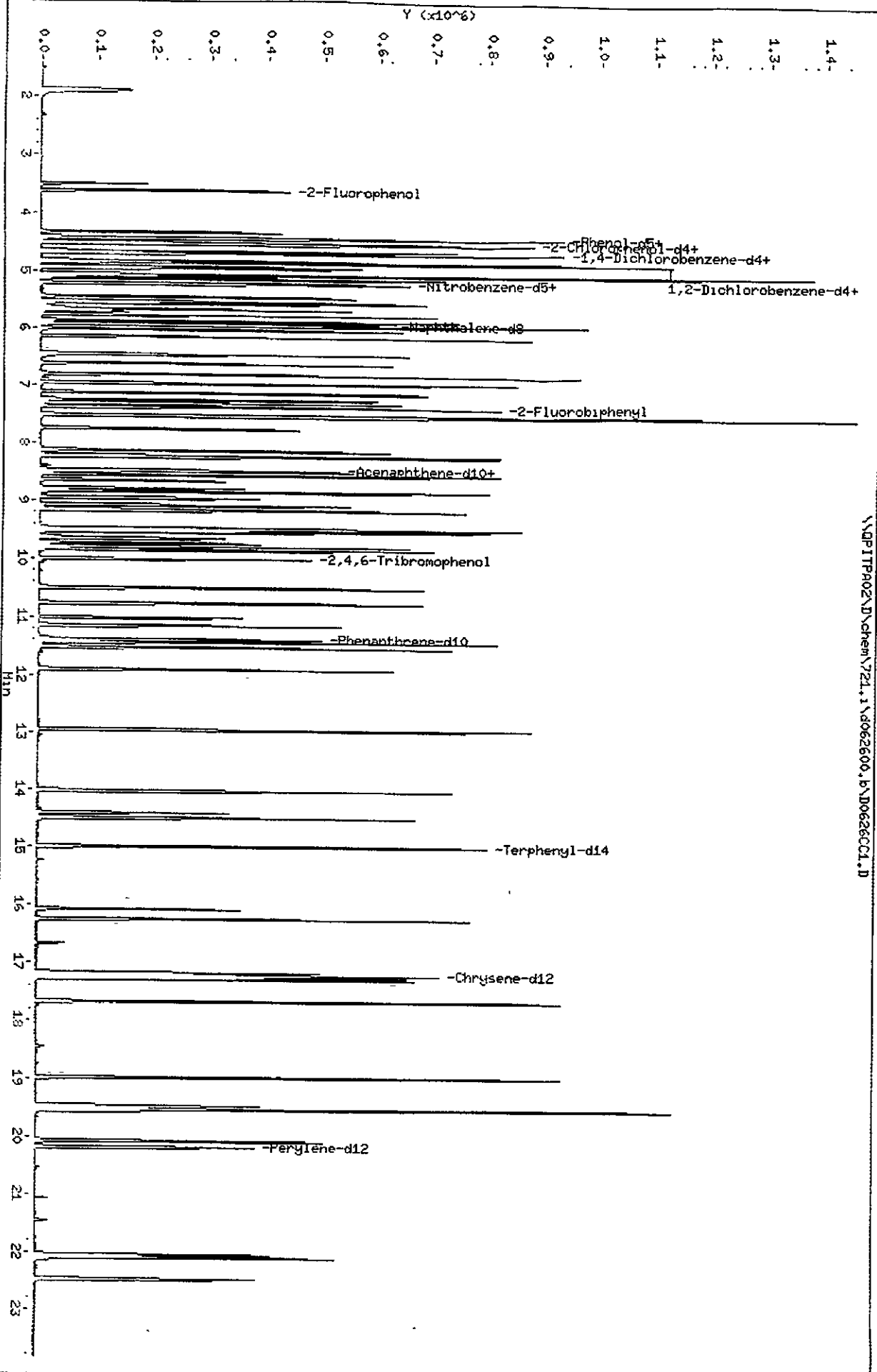


Data File: \\NPITPA02\chem\721.1\4062600.b\4062600C1.D
Date: 26-JUN-2000 14:34
Client ID: SST050
Sample Info: sst050 (25UC/ML) 194-178-12 8270/01/625

Column phase: Hp5-MS

Instrument: 721.1
Operator: 001562, DLF
Column diameter: 0.25

\\NPITPA02\chem\721.1\4062600.b\4062600C1.D



212 699

663 213

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d062600.b\D0626CC1.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 26-JUN-2000 14:34
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd050 (25UG/ML) 194-178-12 8270/clp/625
Misc Info : sstd50,d062600.b,8270c.m,3-root.sub,1,2
Comment :
Method : \\QPITPA02\D\chem\721.i\d062600.b\8270c.m
Meth Date : 27-Jun-2000 08:05 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 14:34 Cal File: D0626CC1.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

DLF
6-27-00

						AMOUNTS	
QUANT SIG						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
=====	----	==	=====	=====	=====	-----	-----
* 1 1,4-Diclorobenzene-d4	152	4.677	4.677	(1.000)	90422	40.0000	
* 2 Naphthalene-d8	136	5.920	5.920	(1.000)	330973	40.0000	
* 3 Acenaphthene-d10	164	8.500	8.500	(1.000)	188202	40.0000	
* 4 Phenanthrene-d10	188	11.390	11.390	(1.000)	364293	40.0000	
* 5 Chrysene-d12	240	17.235	17.235	(1.000)	335927	40.0000	
* 6 Perylene-d12	264	20.192	20.192	(1.000)	268038	40.0000	
10 N-Nitrosodimethylamine	74	1.909	1.909	(0.408)	60766	50.0000	50.000
9 Pyridine	79	1.875	1.875	(0.401)	95313	50.0000	50.000 (M)
16 Methyl methanesulfonate	80	3.495	3.495	(0.747)	87919	50.0000	50.000
21 Aniline	93	4.442	4.442	(0.950)	168817	50.0000	50.000
22 Phenol	94	4.422	4.422	(0.945)	168437	50.0000	50.000
23 bis(2-Chloroethyl)ether	93	4.496	4.496	(0.961)	122416	50.0000	50.000
24 2-Chlorophenol	128	4.529	4.529	(0.968)	169262	50.0000	50.000
26 1,3-Dichlorobenzene	146	4.644	4.644	(0.993)	174992	50.0000	50.000
27 1,4-Dichlorobenzene	146	4.691	4.691	(1.003)	190260	50.0000	50.000
28 1,2-Dichlorobenzene	146	4.852	4.852	(1.037)	179752	50.0000	50.000
29 Benzyl Alcohol	108	4.812	4.812	(1.029)	87597	50.0000	50.000
30 2-Methylphenol	108	4.926	4.926	(1.053)	118215	50.0000	50.000
31 2,2'-oxybis(1-Chloropropane)	45	4.953	4.953	(1.059)	146396	50.0000	50.000
32 N-Nitroso-di-n-propylamine	70	5.087	5.087	(1.088)	104839	50.0000	50.000
192 4-Methylphenol	108	5.054	5.054	(1.080)	130841	50.0000	50.000
34 Hexachloroethane	117	5.127	5.127	(1.096)	84826	50.0000	50.000
35 Nitrobenzene	77	5.222	5.222	(0.882)	179614	50.0000	50.000
41 Isophorone	82	5.443	5.443	(0.919)	271962	50.0000	50.000
42 2-Nitrophenol	139	5.524	5.524	(0.933)	95069	50.0000	50.000
43 2,4-Dimethylphenol	107	5.557	5.557	(0.939)	160355	50.0000	50.000

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	=====	==	=====	=====	=====	=====	=====
44 bis (2-Chloroethoxy)methane	93	5.665	5.665	(0.957)	145859	50.0000	50.000
48 2,4-Dichlorophenol	162	5.766	5.766	(0.974)	134198	50.0000	50.000
49 Benzoic Acid	122	5.712	5.712	(0.965)	98271	50.0000	50.000
50 1,2,4-Trichlorobenzene	180	5.867	5.867	(0.991)	149444	50.0000	50.000
51 Naphthalene	128	5.940	5.940	(1.003)	453527	50.0000	50.000
52 4-Chloroaniline	127	6.014	6.014	(1.016)	184752	50.0000	50.000
56 Hexachlorobutadiene	225	6.142	6.142	(1.037)	114056	50.0000	50.000
59 4-Chloro-3-Methylphenol	107	6.619	6.619	(1.118)	136108	50.0000	50.000
62 2-Methylnaphthalene	142	6.807	6.807	(1.150)	295488	50.0000	50.000
63 1-Methylnaphthalene	142	6.962	6.962	(1.176)	269376	50.0000	50.000
64 Hexachlorocyclopentadiene	237	7.136	7.136	(0.840)	134291	50.0000	50.000
66 2,4,6-Trichlorophenol	196	7.257	7.257	(0.854)	107310	50.0000	50.000
67 2,4,5-Trichlorophenol	196	7.311	7.311	(0.860)	117401	50.0000	50.000
70 2-Chloronaphthalene	162	7.533	7.533	(0.886)	299302	50.0000	50.000
73 2-Nitroaniline	65	7.755	7.755	(0.912)	106941	50.0000	50.000
76 Dimethylphthalate	163	8.144	8.144	(0.958)	362486	50.0000	50.000
78 2,6-Dinitrotoluene	165	8.252	8.252	(0.971)	87086	50.0000	50.000
79 Acenaphthylene	152	8.225	8.225	(0.968)	446822	50.0000	50.000
81 3-Nitroaniline	138	8.480	8.480	(0.998)	88332	50.0000	50.000
82 Acenaphthene	153	8.561	8.561	(1.007)	278415	50.0000	50.000
83 2,4-Dinitrophenol	184	8.662	8.662	(1.019)	62197	50.0000	50.000
85 4-Nitrophenol	109	8.803	8.803	(1.036)	94293	50.0000	50.000
86 Dibenzofuran	168	8.850	8.850	(1.041)	405659	50.0000	50.000
87 2,4-Dinitrotoluene	165	8.964	8.964	(1.055)	114653	50.0000	50.000
91 2,3,5,6-Tetrachlorophenol	232	9.085	9.085	(1.069)	100739	50.0000	50.000
88 2,3,4,6-Tetrachlorophenol	232	9.172	9.172	(1.079)	101822	50.0000	50.000
92 2-Naphthylamine	143	9.152	9.152	(1.077)	191657	50.0000	50.000
93 Diethylphthalate	149	9.482	9.482	(1.115)	414212	50.0000	50.000
94 Fluorene	166	9.502	9.502	(1.118)	326481	50.0000	50.000
95 4-Chlorophenyl-phenylether	204	9.542	9.542	(1.123)	175191	50.0000	50.000
96 4-Nitroaniline	138	9.656	9.656	(1.136)	86120	50.0000	50.000
98 4,6-Dinitro-2-methylphenol	198	9.737	9.737	(0.855)	81456	50.0000	50.000
99 N-Nitrosodiphenylamine (1)	169	9.797	9.797	(0.860)	224033	50.0000	50.000
100 1,2-Diphenylhydrazine	77	9.844	9.844	(0.864)	400211	50.0000	50.000
106 4-Bromophenyl-phenylether	248	10.510	10.510	(0.923)	106989	50.0000	50.000
107 Hexachlorobenzene	284	10.772	10.772	(0.946)	136826	50.0000	50.000
111 Pentachlorophenol	266	11.155	11.155	(0.979)	90126	50.0000	50.000
115 Phenanthrene	178	11.437	11.437	(1.004)	475833	50.0000	50.000
116 Anthracene	178	11.531	11.531	(1.012)	481136	50.0000	50.000
119 Carbazole	167	11.921	11.921	(1.047)	404172	50.0000	50.000
120 Di-n-Butylphthalate	149	12.949	12.949	(1.137)	661110	50.0000	50.000
123 Fluoranthene	202	14.017	14.017	(1.231)	504391	50.0000	50.000
124 Benzidine	184	14.400	14.400	(0.835)	182385	50.0000	50.000
125 Pyrene	202	14.494	14.494	(0.841)	494969	50.0000	50.000
131 Butylbenzylphthalate	149	16.254	16.254	(0.943)	289602	50.0000	50.000
135 3,3'-Dichlorobenzidine	252	17.262	17.262	(1.002)	190993	50.0000	50.000
136 Benzo(a)Anthracene	228	17.195	17.195	(0.998)	438056	50.0000	50.000

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Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	=====	==	=====	=====	=====	=====	=====
137 Chrysene	228	17 296	17 296	(1.004)	422963	50 0000	50 000
139 bis(2-ethylhexyl)Phthalate	149	17 679	17 679	(1.026)	406706	50 0000	50 000
140 Di-n-octylphthalate	149	18.989	18.989	(0.940)	699266	50 0000	50.000
141 Benzo(b)fluoranthene	252	19 480	19 480	(0.965)	423099	50 0000	50 000
142 Benzo(k)fluoranthene	252	19 533	19 533	(0.967)	480912	50 0000	50 000
143 7,12-dimethylbenz[a]anthracen	256	19 547	19 547	(0.968)	212782	50 0000	50 000
146 Benzo(a)pyrene	252	20 084	20 084	(0.995)	387359	50 0000	50 000
149 Indeno(1,2,3-cd)pyrene	276	22 067	22 067	(1.093)	378201	50.0000	50.000
150 Dibenz(a,h)anthracene	278	22 114	22 114	(1.095)	406154	50 0000	50 000
151 Benzo(g,h,i)perylene	276	22.490	22 490	(1.114)	367324	50 0000	50.000
\$ 154 Nitrobenzene-d5	82	5.201	5 201	(0.879)	176187	50.0000	50 000
\$ 155 2-Fluorobiphenyl	172	7 385	7 385	(0.869)	322152	50.0000	50 000
\$ 156 Terphenyl-d14	244	14 985	14 985	(0.869)	411818	50.0000	50.000
\$ 157 Phenol-d5	99	4.415	4 415	(0.944)	148145	50 0000	50.000
\$ 158 2-Fluorophenol	112	3 609	3 609	(0.772)	123908	50 0000	50 000
\$ 159 2,4,6-Tribromophenol	330	10.012	10 012	(0.879)	79627	50 0000	50 000
\$ 186 2-Chlorophenol-d4	132	4.516	4 516	(0.966)	151705	50.0000	50 000
\$ 187 1,2-Dichlorobenzene-d4	152	4 845	4 845	(1.036)	110824	50 0000	50 000

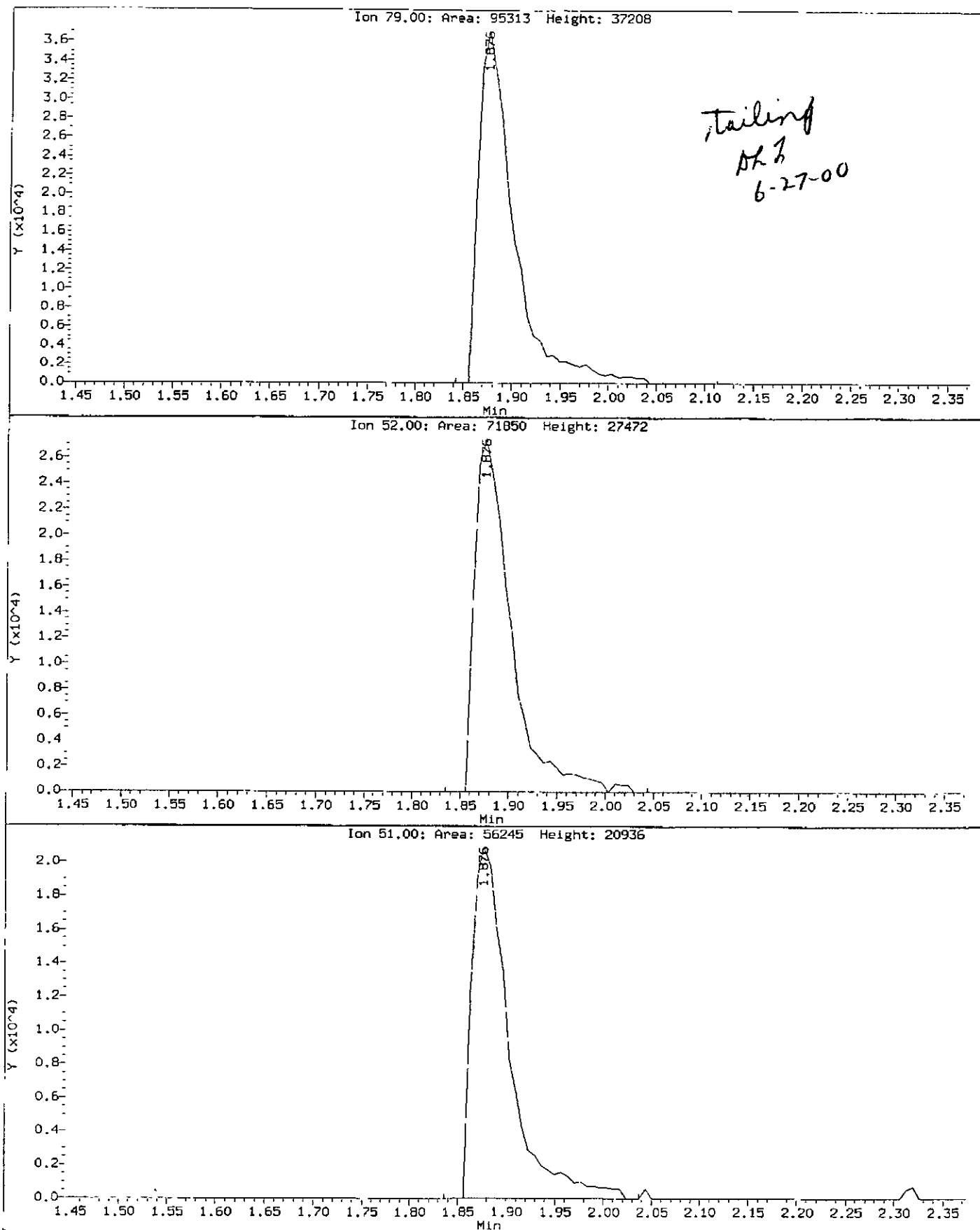
QC Flag Legend

M - Compound response manually integrated.

Data File: \\QPITPA02\\B\\chem\\721.1\\d062600.b\\d0626CC1.D
Injection Date: 26-JUN-2000 14:34
Instrument: 721.1
Client Sample ID: SST0050

663 216

Compound: Pyridine
CAS Number: 110-86-1



Data File: \\QPI1F802\chem\721.1\4062600.b\0626CC3.D
Date : 26-JUN-2000 15:34

Client ID: SST080

Sample Info: sst080 (40UC/ML) 194-175-12 8270/01p/625

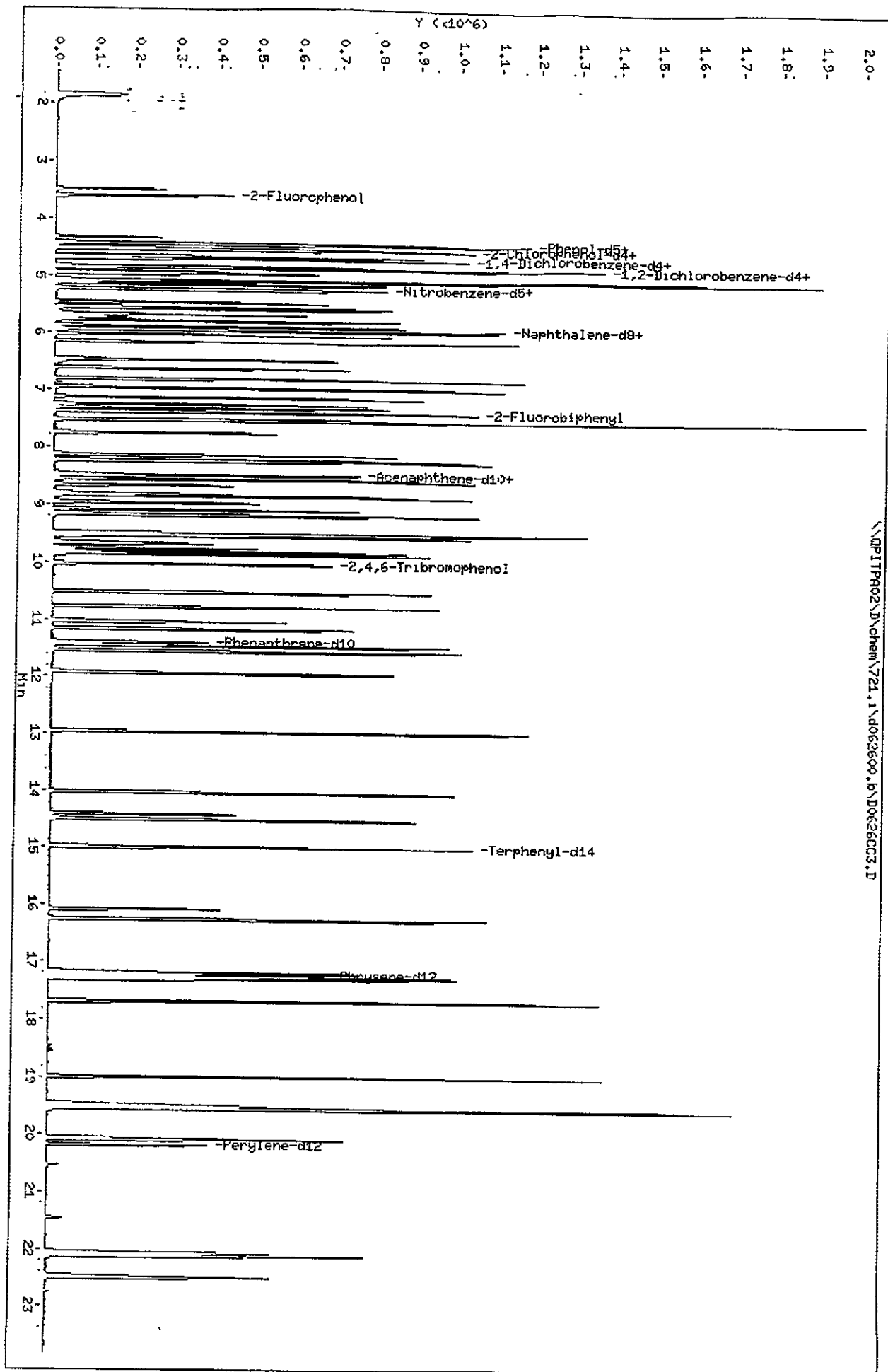
Column phase: Hp5-MS

Instrument: 721.1

Operator: 001562, DLF

Column diameter: 0.25

\\QPI1F802\chem\721.1\4062600.b\0626CC3.D



4172 699

663 218

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d062600.b\D0626CC3.D
Lab Smp Id: sstd80 Client Smp ID: SSTD080
Inj Date : 26-JUN-2000 15:34
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd080 (40UG/ML) 194-175-12 8270/clp/625
Misc Info : sstd80,d062600.b,8270c.m,3-root.sub,1,3
Comment :
Method : \\QPITPA02\D\chem\721.i\d062600.b\8270c.m
Meth Date : 27-Jun-2000 08:06 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 15:34 Cal File: D0626CC3.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

PL 7
6-27-00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.675	4.675	(1.000)	68394	40.0000	
* 2 Naphthalene-d8	136	5.918	5.918	(1.000)	249600	40.0000	
* 3 Acenaphthene-d10	164	8.505	8.505	(1.000)	152418	40.0000	
* 4 Phenanthrene-d10	188	11.394	11.394	(1.000)	299598	40.0000	
* 5 Chrysene-d12	240	17.240	17.240	(1.000)	306118	40.0000	
* 6 Perylene-d12	264	20.203	20.203	(1.000)	248555	40.0000	
10 N-Nitrosodimethylamine	74	1.859	1.859	(0.398)	65411	80.0000	78.423
9 Pyridine	79	1.832	1.832	(0.392)	108093	80.0000	79.870 (M)
16 Methyl methanesulfonate	80	3.485	3.485	(0.746)	136462	80.0000	86.596
21 Aniline	93	4.433	4.433	(0.948)	228168	80.0000	85.072
22 Phenol	94	4.426	4.426	(0.947)	209936	80.0000	84.125
23 bis(2-Chloroethyl)ether	93	4.493	4.493	(0.961)	148941	80.0000	83.515
24 2-Chlorophenol	128	4.527	4.527	(0.968)	204269	80.0000	82.219
26 1,3-Dichlorobenzene	146	4.641	4.641	(0.993)	208759	80.0000	81.191
27 1,4-Dichlorobenzene	146	4.688	4.688	(1.003)	221644	80.0000	80.302
28 1,2-Dichlorobenzene	146	4.849	4.849	(1.037)	211752	80.0000	81.862
29 Benzyl Alcohol	108	4.816	4.816	(1.030)	110810	80.0000	83.461
30 2-Methylphenol	108	4.923	4.923	(1.053)	140351	80.0000	81.483
31 2,2'-oxybis(1-Chloropropane)	45	4.950	4.950	(1.059)	177463	80.0000	82.305
32 N-Nitroso-di-n-propylamine	70	5.091	5.091	(1.089)	129158	80.0000	82.789
192 4-Methylphenol	108	5.058	5.058	(1.082)	167756	80.0000	85.613
34 Hexachloroethane	117	5.125	5.125	(1.096)	100659	80.0000	81.093
35 Nitrobenzene	77	5.219	5.219	(0.882)	223471	80.0000	84.449
41 Isophorone	82	5.447	5.447	(0.921)	343195	80.0000	84.345
42 2-Nitrophenol	139	5.528	5.528	(0.934)	115394	80.0000	82.965
43 2,4-Dimethylphenol	107	5.555	5.555	(0.939)	200168	80.0000	85.487

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Compounds	QUANT SIG			EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS	RT					CAL-AMT (NG)	ON-COL (NG)
44 bis(2-Chloroethoxy)methane	93	5.669	5.669 (0.958)			178913	80.0000	82.502
48 2,4-Dichlorophenol	162	5.770	5.770 (0.975)			161468	80.0000	82.475
49 Benzoic Acid	122	5.736	5.736 (0.969)			120086	80.0000	82.977 (Q)
50 1,2,4-Trichlorobenzene	180	5.871	5.871 (0.992)			183295	80.0000	82.818
51 Naphthalene	128	5.945	5.945 (1.005)			557475	80.0000	83.643
52 4-Chloroaniline	127	6.019	6.019 (1.017)			232364	80.0000	84.190
56 Hexachlorobutadiene	225	6.146	6.146 (1.039)			138278	80.0000	83.560 (Q)
59 4-Chloro-3-Methylphenol	107	6.623	6.623 (1.119)			172060	80.0000	84.822
62 2-Methylnaphthalene	142	6.811	6.811 (1.151)			370220	80.0000	84.767
63 1-Methylnaphthalene	142	6.966	6.966 (1.177)			334416	80.0000	83.590
64 Hexachlorocyclopentadiene	237	7.134	7.134 (0.839)			169816	80.0000	80.605
66 2,4,6-Trichlorophenol	196	7.262	7.262 (0.854)			133637	80.0000	79.648
67 2,4,5-Trichlorophenol	196	7.322	7.322 (0.861)			146813	80.0000	80.365
70 2-Chloronaphthalene	162	7.537	7.537 (0.886)			389320	80.0000	82.738
73 2-Nitroaniline	65	7.759	7.759 (0.912)			141091	80.0000	81.591
76 Dimethylphthalate	163	8.149	8.149 (0.958)			482632	80.0000	82.092
78 2,6-Dinitrotoluene	165	8.256	8.256 (0.971)			115740	80.0000	82.248
79 Acenaphthylene	152	8.229	8.229 (0.968)			573505	80.0000	80.927
81 3-Nitroaniline	138	8.491	8.491 (0.998)			120712	80.0000	85.474
82 Acenaphthene	153	8.565	8.565 (1.007)			354285	80.0000	81.226
83 2,4-Dinitrophenol	184	8.673	8.673 (1.020)			86150	80.0000	89.943
85 4-Nitrophenol	109	8.820	8.820 (1.037)			125900	80.0000	82.838
86 Dibenzofuran	168	8.854	8.854 (1.041)			527245	80.0000	81.523
87 2,4-Dinitrotoluene	165	8.975	8.975 (1.055)			156846	80.0000	84.571
91 2,3,5,6-Tetrachlorophenol	232	9.096	9.096 (1.070)			137577	80.0000	84.210
88 2,3,4,6-Tetrachlorophenol	232	9.183	9.183 (1.080)			144003	80.0000	85.763
92 2-Naphthylamine	143	9.170	9.170 (1.078)			241705	80.0000	75.101
93 Diethylphthalate	149	9.492	9.492 (1.116)			578421	80.0000	84.917
94 Fluorene	166	9.513	9.513 (1.119)			450972	80.0000	85.459
95 4-Chlorophenyl-phenylether	204	9.546	9.546 (1.122)			234950	80.0000	84.385
96 4-Nitroaniline	138	9.674	9.674 (1.137)			119875	80.0000	84.676
98 4,6-Dinitro-2-methylphenol	198	9.754	9.754 (0.856)			114523	80.0000	86.729
99 N-Nitrosodiphenylamine (1)	169	9.808	9.808 (0.861)			309226	80.0000	83.026
100 1,2-Diphenylhydrazine	77	9.855	9.855 (0.865)			533680	80.0000	82.320
106 4-Bromophenyl-phenylether	248	10.514	10.514 (0.923)			145578	80.0000	84.728
107 Hexachlorobenzene	284	10.776	10.776 (0.946)			189925	80.0000	85.215
111 Pentachlorophenol	266	11.159	11.159 (0.979)			125739	80.0000	87.470 (Q)
115 Phenanthrene	178	11.448	11.448 (1.005)			644894	80.0000	84.373
116 Anthracene	178	11.542	11.542 (1.013)			656502	80.0000	84.291
119 Carbazole	167	11.925	11.925 (1.047)			572243	80.0000	86.208 (Q)
120 Di-n-Butylphthalate	149	12.953	12.953 (1.137)			948676	80.0000	86.801
123 Fluoranthene	202	14.028	14.028 (1.231)			720660	80.0000	87.377
124 Benzidine	184	14.411	14.411 (0.836)			287270	80.0000	83.216
125 Pyrene	202	14.505	14.505 (0.841)			712609	80.0000	81.102
131 Butylbenzylphthalate	149	16.265	16.265 (0.943)			416984	80.0000	81.111
135 3,3'-Dichlorobenzidine	252	17.273	17.273 (1.002)			294967	80.0000	85.165
136 Benzo(a)Anthracene	228	17.206	17.206 (0.998)			667501	80.0000	83.638

663 220

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	====	==	=====	=====	=====	=====	=====
137 Chrysene	228	17 307	17 307	(1.004)	632852	80 0000	84 281
139 bis(2-ethylhexyl)Phthalate	149	17 683	17 683	(1.026)	599055	80 0000	83 557
140 Di-n-octylphthalate	149	19 000	19 000	(0.940)	1048644	80.0000	84 171
141 Benzo(b)fluoranthene	252	19 504	19 504	(0.965)	726159	80.0000	90 796
142 Benzo(k)fluoranthene	252	19.564	19 564	(0.968)	686512	80 0000	82 150 (MH)
143 7,12-dimethylbenz[a]anthracen	256	19.564	19.564	(0.968)	342322	80 0000	89 934
146 Benzo(a)pyrene	252	20 102	20 102	(0.995)	596420	80.0000	85 778
149 Indeno(1,2,3-cd)pyrene	276	22 084	22 084	(1.093)	609958	80 0000	89 121
150 Dibenz(a,h)anthracene	278	22.131	22 131	(1.095)	644290	80 0000	88 686
151 Benzo(g,h,i)perylene	276	22 514	22 514	(1.114)	574801	80 0000	86 567
\$ 154 Nitrobenzene-d5	82	5 206	5 206	(0.880)	214211	80.0000	82 821
\$ 155 2-Fluorobiphenyl	172	7.389	7.389	(0.869)	399612	80.0000	79.794
\$ 156 Terphenyl-d14	244	14.995	14 995	(0.870)	593036	80 0000	82.002
\$ 157 Phenol-d5	99	4 413	4 413	(0.944)	186274	80 0000	82 883
\$ 158 2-Fluorophenol	112	3 600	3 600	(0.770)	147559	80.0000	79 235
\$ 159 2,4,6-Tribromophenol	330	10 023	10 023	(0.880)	112808	80 0000	85.805
\$ 186 2-Chlorophenol-d4	132	4 513	4 513	(0.966)	187958	80 0000	82 245
\$ 187 1,2-Dichlorobenzene-d4	152	4.843	4.843	(1.036)	135341	80 0000	83 949

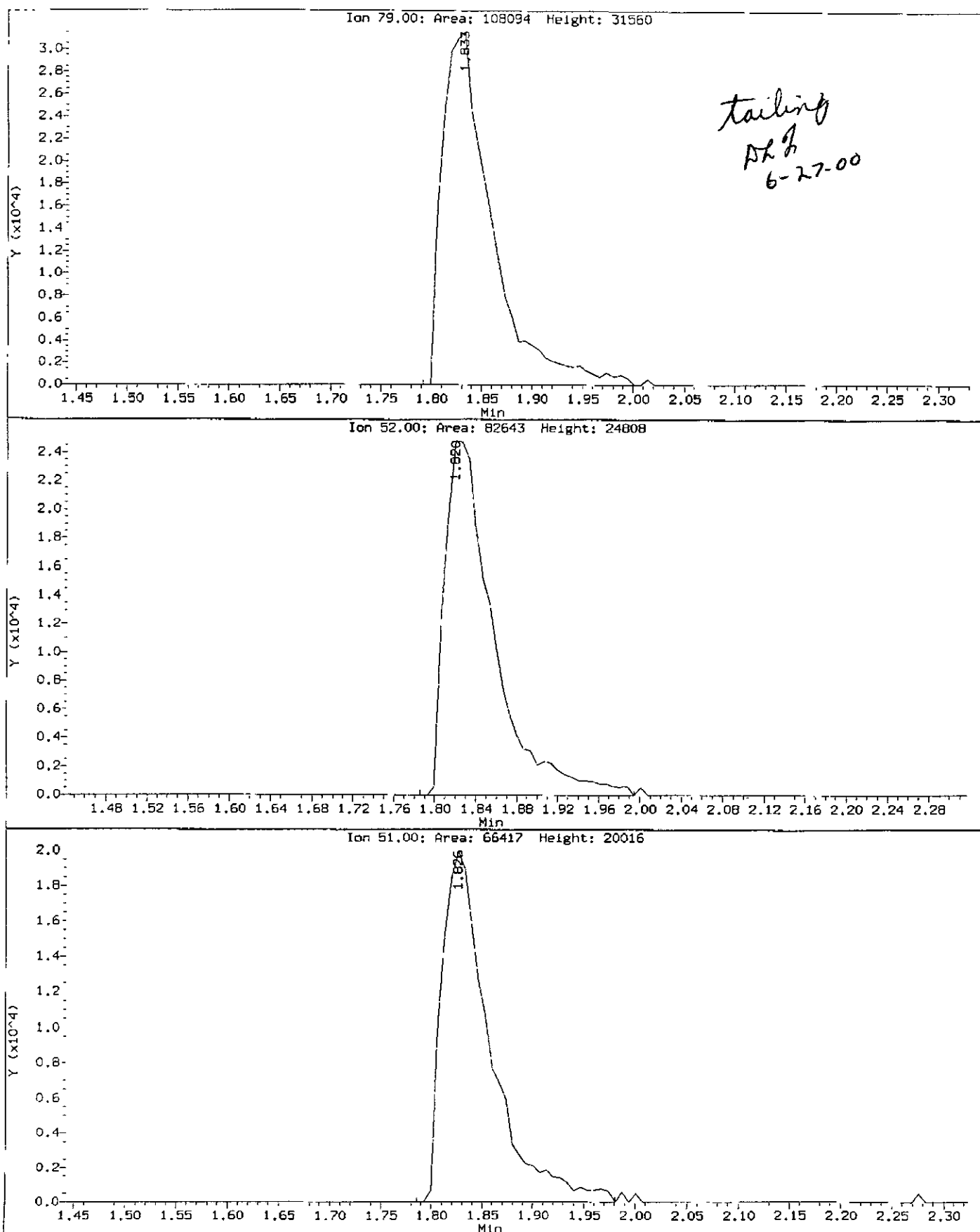
QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Data File: \\QPITPA02\N\chem\721.1\d062600.b\d0626CC3.D
Injection Date: 26-JUN-2000 15:34
Instrument: 721.1
Client Sample ID:

663 221

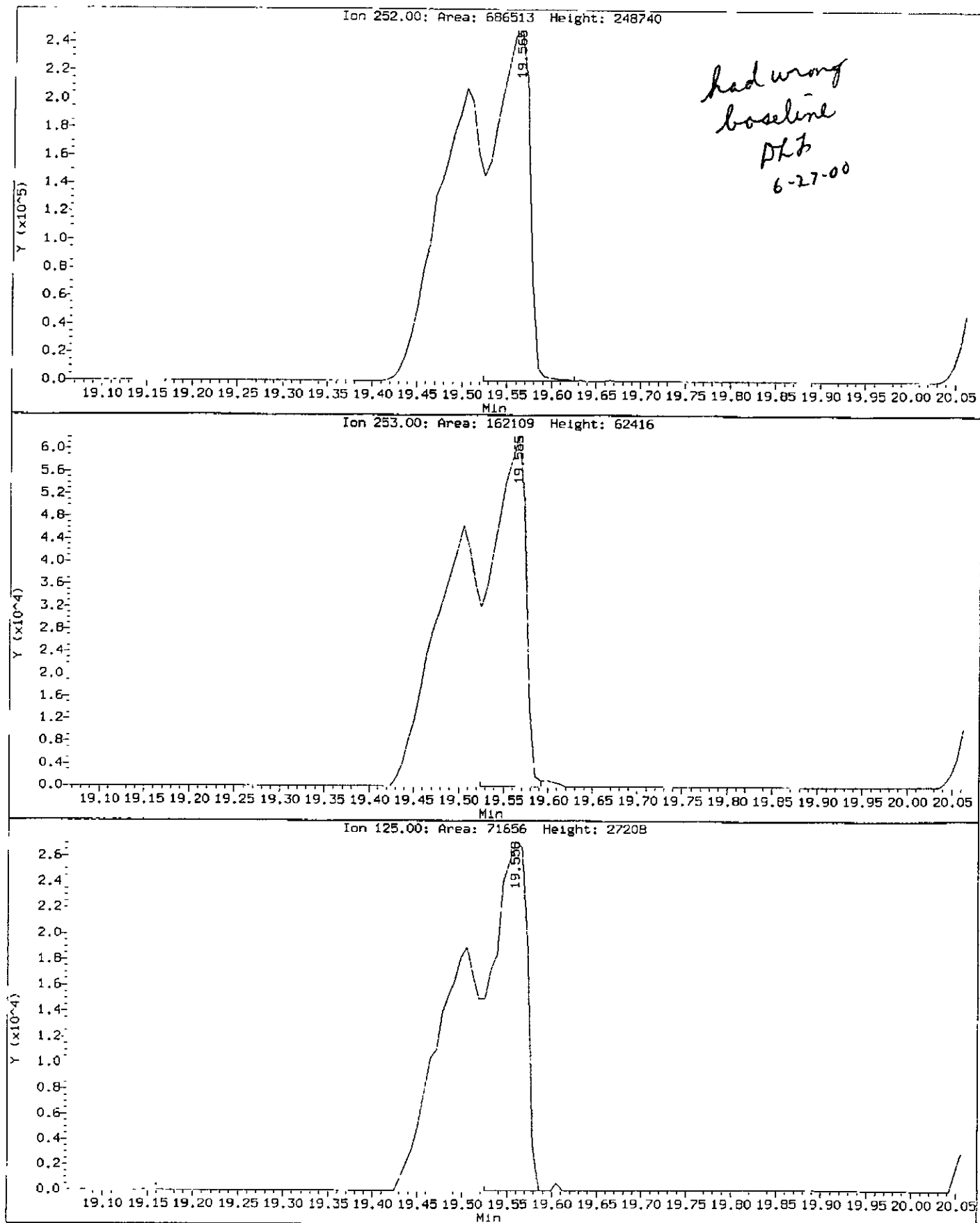
Compound: Pyridine
CAS Number: 110-86-1



Data File: \\QPITPA02\chem\721.1\062600.b\0626CC3.D
Injection Date: 26-JUN-2000 15:34
Instrument: 721.1
Client Sample ID:

663 222

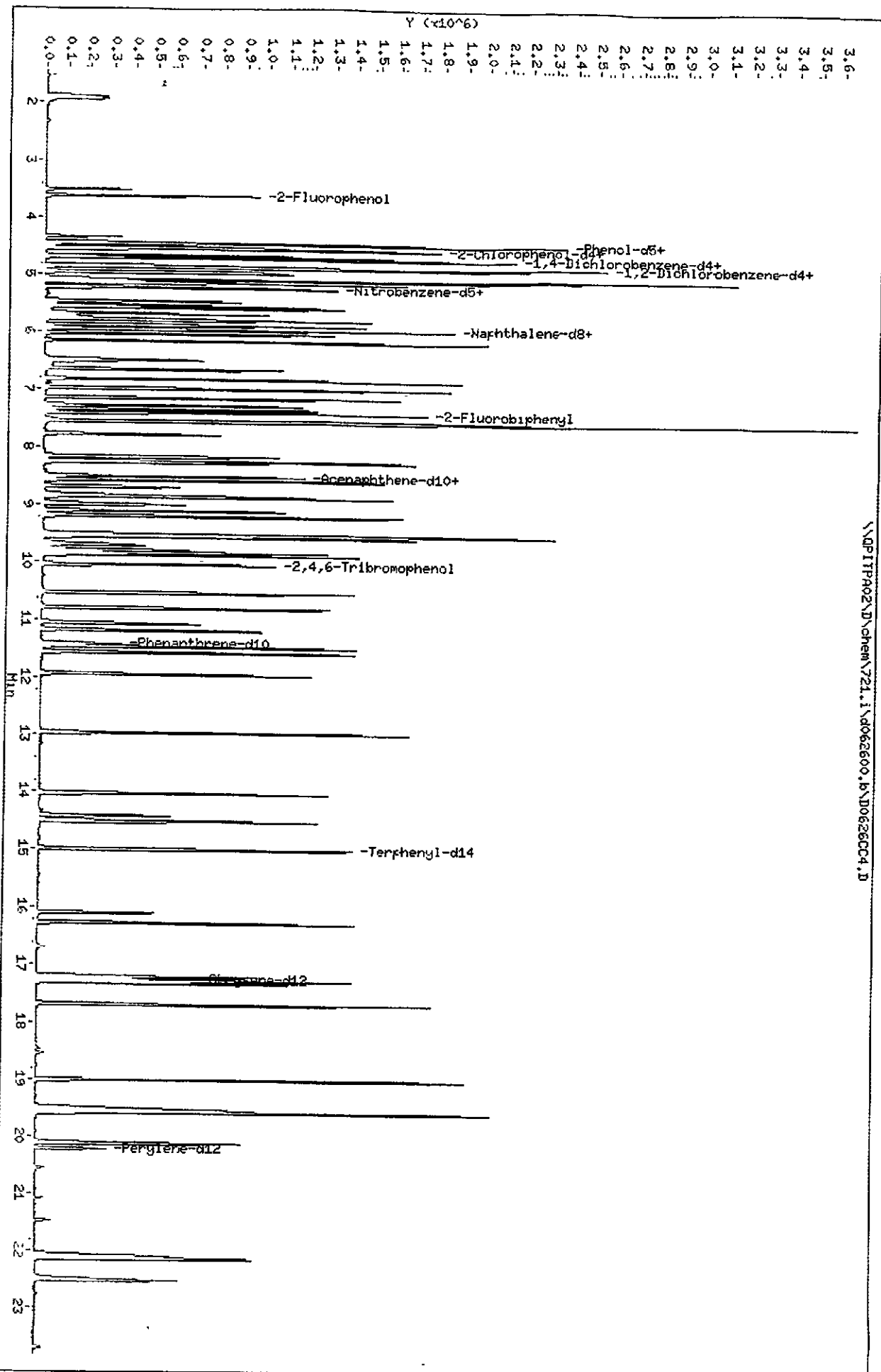
Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



Data File: \\QPI17P02\N\chem\721.1\062600.b\0626004.D
 Date : 26-JUN-2000 16:04
 Client ID: SSTD120
 Sample Info: sstd120 (6000/HL) 194-175-13 8270/c/p/625

Column phase: Hp5-MS

Instrument: 721.1
 Operator: 001562, ILF
 Column diameter: 0.25



622 699

663 224

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d062600.b\D0626CC4.D
Lab Smp Id: sstd120 Client Smp ID: SSTD120
Inj Date : 26-JUN-2000 16:04
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd120 (60UG/ML) 194-175-13 8270/clp/625
Misc Info : sstd120,d062600.b,8270c.m,3-root.sub,1,4
Comment :
Method : \\QPITPA02\D\chem\721.i\d062600.b\8270c.m
Meth Date : 27-Jun-2000 08:07 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 16:04 Cal File: D0626CC4.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

DRZ
6-27-00

Compound Sublist: 3-root.sub

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
*****	----	---	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.683	4.683	(1.000)	85518	40.0000	(Q)
* 2 Naphthalene-d8	136	5.926	5.926	(1.000)	287070	40.0000	
* 3 Acenaphthene-d10	164	8.506	8.506	(1.000)	168861	40.0000	
* 4 Phenanthrene-d10	188	11.395	11.395	(1.000)	303854	40.0000	
* 5 Chrysene-d12	240	17.248	17.248	(1.000)	278190	40.0000	
* 6 Perylene-d12	264	20.204	20.204	(1.000)	217993	40.0000	
10 N-Nitrosodimethylamine	74	1.928	1.928	(0.412)	121565	120.000	117.40
9 Pyridine	79	1.881	1.881	(0.402)	200454	120.000	118.84 (M)
16 Methyl methanesulfonate	80	3.514	3.514	(0.750)	236005	120.000	119.83
21 Aniline	93	4.448	4.448	(0.950)	426886	120.000	125.39
22 Phenol	94	4.441	4.441	(0.948)	391116	120.000	123.96
23 bis(2-Chloroethyl)ether	93	4.508	4.508	(0.963)	270482	120.000	120.97
24 2-Chlorophenol	128	4.535	4.535	(0.968)	381349	120.000	122.06
26 1,3-Dichlorobenzene	146	4.656	4.656	(0.994)	394036	120.000	121.91
27 1,4-Dichlorobenzene	146	4.696	4.696	(1.003)	421199	120.000	121.53
28 1,2-Dichlorobenzene	146	4.864	4.864	(1.039)	414586	120.000	126.03
29 Benzyl Alcohol	108	4.831	4.831	(1.032)	201347	120.000	120.96
30 2-Methylphenol	108	4.938	4.938	(1.055)	251029	120.000	117.40
31 2,2'-oxybis(1-Chloropropane)	45	4.958	4.958	(1.059)	320616	120.000	119.19 (Q)
32 N-Nitroso-di-n-propylamine	70	5.113	5.113	(1.092)	225091	120.000	116.51
192 4-Methylphenol	108	5.072	5.072	(1.083)	300940	120.000	122.11
34 Hexachloroethane	117	5.133	5.133	(1.096)	183775	120.000	118.80
35 Nitrobenzene	77	5.234	5.234	(0.883)	386427	120.000	125.15
41 Isophorone	82	5.462	5.462	(0.922)	566391	120.000	120.77
42 2-Nitrophenol	139	5.536	5.536	(0.934)	198783	120.000	123.17
43 2,4-Dimethylphenol	107	5.570	5.570	(0.940)	342312	120.000	125.26

663 225

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	=====	==	=====	=====	=====	=====	=====
44 bis(2-Chloroethoxy)methane	93	5.677	5.677	(0.958)	304473	120.000	121.55
48 2,4-Dichlorophenol	162	5.785	5.785	(0.976)	290483	120.000	126.63
49 Benzoic Acid	122	5.778	5.778	(0.975)	220800	120.000	129.25 (M)
50 1,2,4-Trichlorobenzene	180	5.872	5.872	(0.991)	319004	120.000	123.95
51 Naphthalene	128	5.953	5.953	(1.005)	984994	120.000	126.26
52 4-Chloroaniline	127	6.027	6.027	(1.017)	390814	120.000	122.32
56 Hexachlorobutadiene	225	6.148	6.148	(1.037)	250456	120.000	128.49 (Q)
59 4-Chloro-3-Methylphenol	107	6.645	6.645	(1.121)	282318	120.000	120.76
62 2-Methylnaphthalene	142	6.819	6.819	(1.151)	647391	120.000	126.54
63 1-Methylnaphthalene	142	6.974	6.974	(1.177)	590698	120.000	126.18
64 Hexachlorocyclopentadiene	237	7.142	7.142	(0.840)	299469	120.000	126.12
66 2,4,6-Trichlorophenol	196	7.270	7.270	(0.855)	225592	120.000	121.02
67 2,4,5-Trichlorophenol	196	7.337	7.337	(0.863)	231782	120.000	115.84
70 2-Chloronaphthalene	162	7.545	7.545	(0.887)	678201	120.000	127.42
73 2-Nitroaniline	65	7.774	7.774	(0.914)	221463	120.000	116.67
76 Dimethylphthalate	163	8.157	8.157	(0.959)	731248	120.000	114.11
78 2,6-Dinitrotoluene	165	8.271	8.271	(0.972)	182348	120.000	117.71 (Q)
79 Acenaphthylene	152	8.244	8.244	(0.969)	949745	120.000	120.72
81 3-Nitroaniline	138	8.506	8.506	(1.000)	188254	120.000	120.24
82 Acenaphthene	153	8.580	8.580	(1.009)	586269	120.000	120.99
83 2,4-Dinitrophenol	184	8.687	8.687	(1.021)	132740	120.000	123.78
85 4-Nitrophenol	109	8.842	8.842	(1.039)	194314	120.000	116.52 (Q)
86 Dibenzofuran	168	8.869	8.869	(1.043)	874630	120.000	121.54
87 2,4-Dinitrotoluene	165	8.996	8.996	(1.058)	235435	120.000	115.89
91 2,3,5,6-Tetrachlorophenol	232	9.104	9.104	(1.070)	219171	120.000	120.82
88 2,3,4,6-Tetrachlorophenol	232	9.198	9.198	(1.081)	228930	120.000	122.28
92 2-Naphthylamine	143	9.185	9.185	(1.080)	340053	120.000	100.53
93 Diethylphthalate	149	9.507	9.507	(1.118)	907498	120.000	120.19
94 Fluorene	166	9.521	9.521	(1.119)	734273	120.000	124.15
95 4-Chlorophenyl-phenylether	204	9.554	9.554	(1.123)	389813	120.000	124.72
96 4-Nitroaniline	138	9.702	9.702	(1.141)	177989	120.000	115.04
98 4,6-Dinitro-2-methylphenol	198	9.776	9.776	(0.858)	171520	120.000	125.96
99 N-Nitrosodiphenylamine (1)	169	9.823	9.823	(0.862)	507528	120.000	130.46
100 1,2-Diphenylhydrazine	77	9.870	9.870	(0.866)	896346	120.000	131.84
106 4-Bromophenyl-phenylether	248	10.522	10.522	(0.923)	226901	120.000	127.50
107 Hexachlorobenzene	284	10.791	10.791	(0.947)	296121	120.000	128.07
111 Pentachlorophenol	266	11.174	11.174	(0.981)	193897	120.000	129.49 (Q)
115 Phenanthrene	178	11.456	11.456	(1.005)	981028	120.000	124.85
116 Anthracene	178	11.557	11.557	(1.014)	990158	120.000	123.97
119 Carbazole	167	11.940	11.940	(1.048)	848066	120.000	124.42 (Q)
120 Di-n-Butylphthalate	149	12.961	12.961	(1.137)	1396041	120.000	124.40
123 Fluoranthene	202	14.036	14.036	(1.232)	1045118	120.000	123.67
124 Benzidine	184	14.419	14.419	(0.836)	349224	120.000	113.37
125 Pyrene	202	14.513	14.513	(0.841)	1011891	120.000	124.97
131 Butylbenzylphthalate	149	16.273	16.273	(0.944)	586755	120.000	124.15
135 3,3'-Dichlorobenzidine	252	17.281	17.281	(1.002)	408126	120.000	127.11
136 Benzo(a)Anthracene	228	17.214	17.214	(0.998)	916761	120.000	124.74

663 226

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	=====	==	=====	=====	=====	=====	=====
137 Chrysene	228	17.315	17.315	(1.004)	876309	120.000	126.21
139 bis(2-ethylhexyl)Phthalate	149	17.691	17.691	(1.026)	842574	120.000	126.86
140 Di-n-octylphthalate	149	19.008	19.008	(0.941)	1449929	120.000	129.28
141 Benzo(b)fluoranthene	252	19.525	19.525	(0.966)	1093383	120.000	145.04
142 Benzo(k)fluoranthene	252	19.586	19.586	(0.969)	835458	120.000	115.43 (MH)
143 7,12-dimethylbenz[a]anthracen	256	19.579	19.579	(0.969)	486045	120.000	138.22
146 Benzo(a)pyrene	252	20.117	20.117	(0.996)	784772	120.000	126.40
149 Indeno(1,2,3-cd)pyrene	276	22.092	22.092	(1.093)	799341	120.000	129.61
150 Dibenz(a,h)anthracene	278	22.146	22.146	(1.096)	850199	120.000	129.80
151 Benzo(g,h,i)perylene	276	22.522	22.522	(1.115)	721185	120.000	122.86
\$ 154 Nitrobenzene-d5	82	5.214	5.214	(0.880)	373471	120.000	124.11
\$ 155 2-Fluorobiphenyl	172	7.397	7.397	(0.870)	690277	120.000	123.28
\$ 156 Terphenyl-d14	244	14.997	14.997	(0.869)	861117	120.000	128.08
\$ 157 Phenol-d5	99	4.434	4.434	(0.947)	344979	120.000	122.06
\$ 158 2-Fluorophenol	112	3.614	3.614	(0.772)	277726	120.000	119.45
\$ 159 2,4,6-Tribromophenol	330	10.038	10.038	(0.881)	181635	120.000	131.77
\$ 186 2-Chlorophenol-d4	132	4.528	4.528	(0.967)	358512	120.000	124.05
\$ 187 1,2-Dichlorobenzene-d4	152	4.851	4.851	(1.036)	259977	120.000	126.60

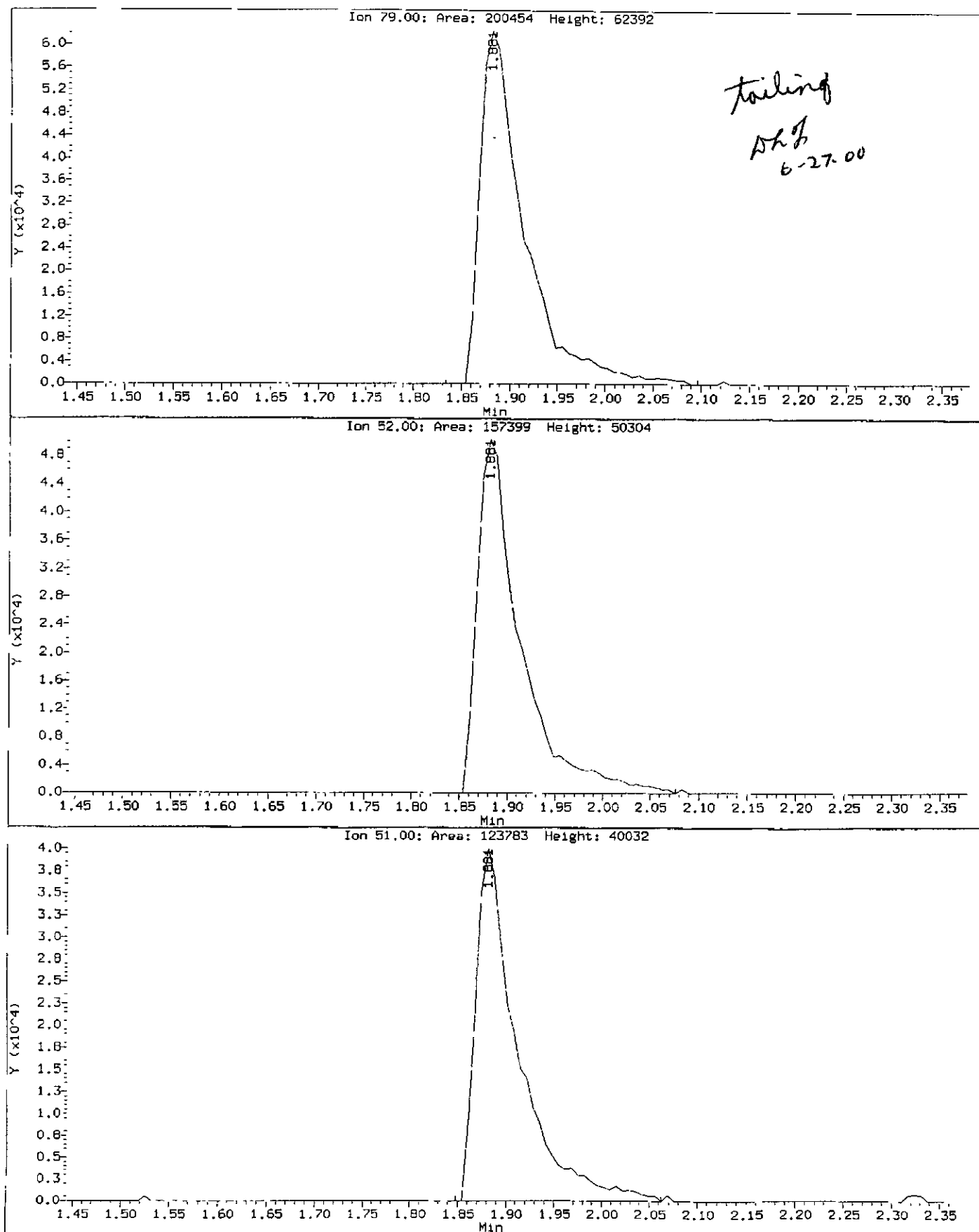
QC Flag Legend

Q - Qualifier signal failed the ratio test.
 M - Compound response manually integrated.
 H - Operator selected an alternate compound hit.

Data File: \\QPITPA02\B\chem\721.1\062600.b\062600C4.D
Injection Date: 26-JUN-2000 16:04
Instrument: 721.1
Client Sample ID:

663 227

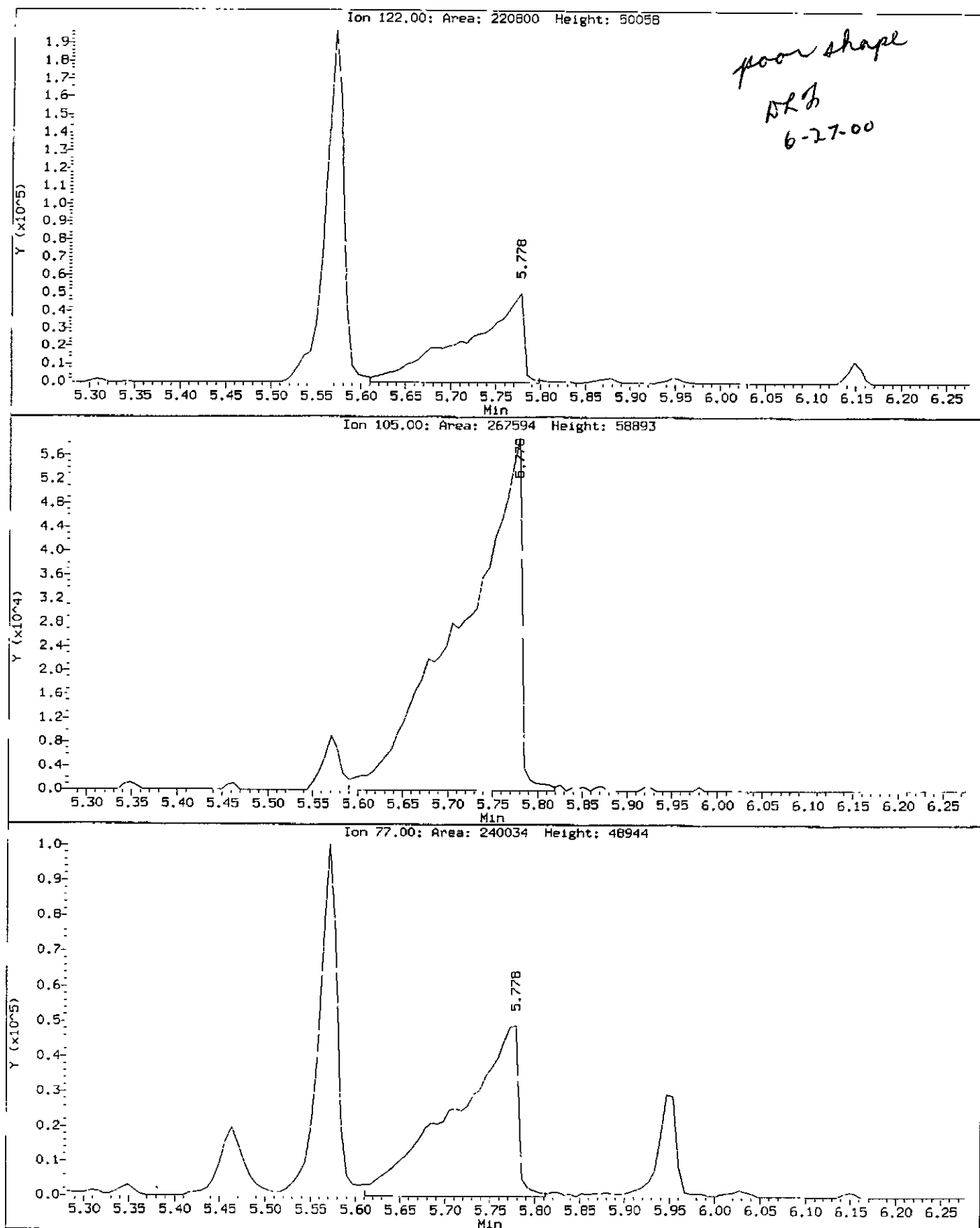
Compound: Pyridine
CAS Number: 110-86-1



Data File: \\QPIITPA02\B\chem\721.1\ld062600.b\ld0626CC4.D
Injection Date: 26-JUN-2000 16:04
Instrument: 721.1
Client Sample ID:

663 228

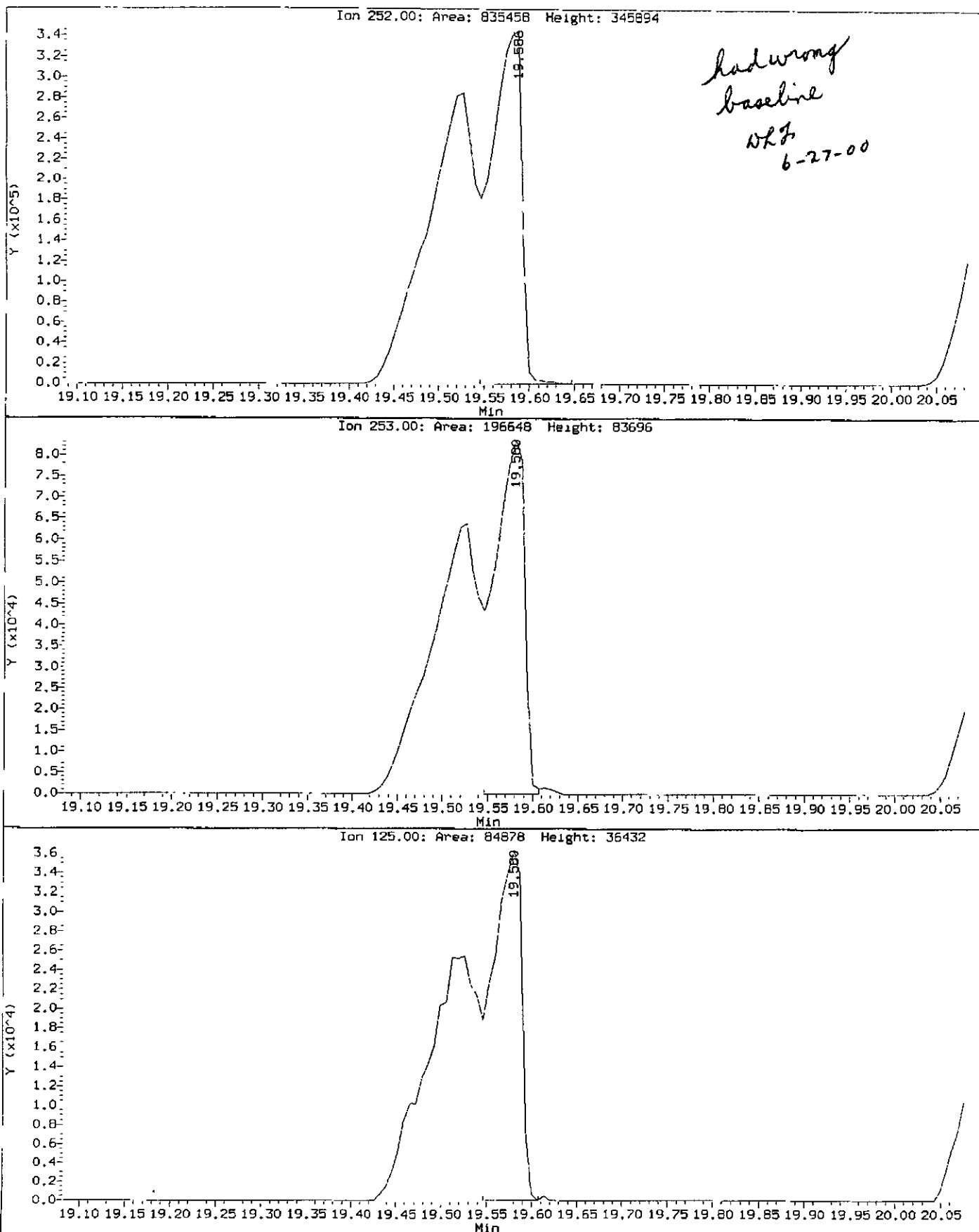
Compound: Benzoic Acid
CAS Number: 65-85-0



Data File: \\QF1TPA02\\D\\chem\\721.1\\d062600 b\\D0626CC4.D
Injection Date: 26-JUN-2000 16:04
Instrument: 721.1
Client Sample ID:

663 229

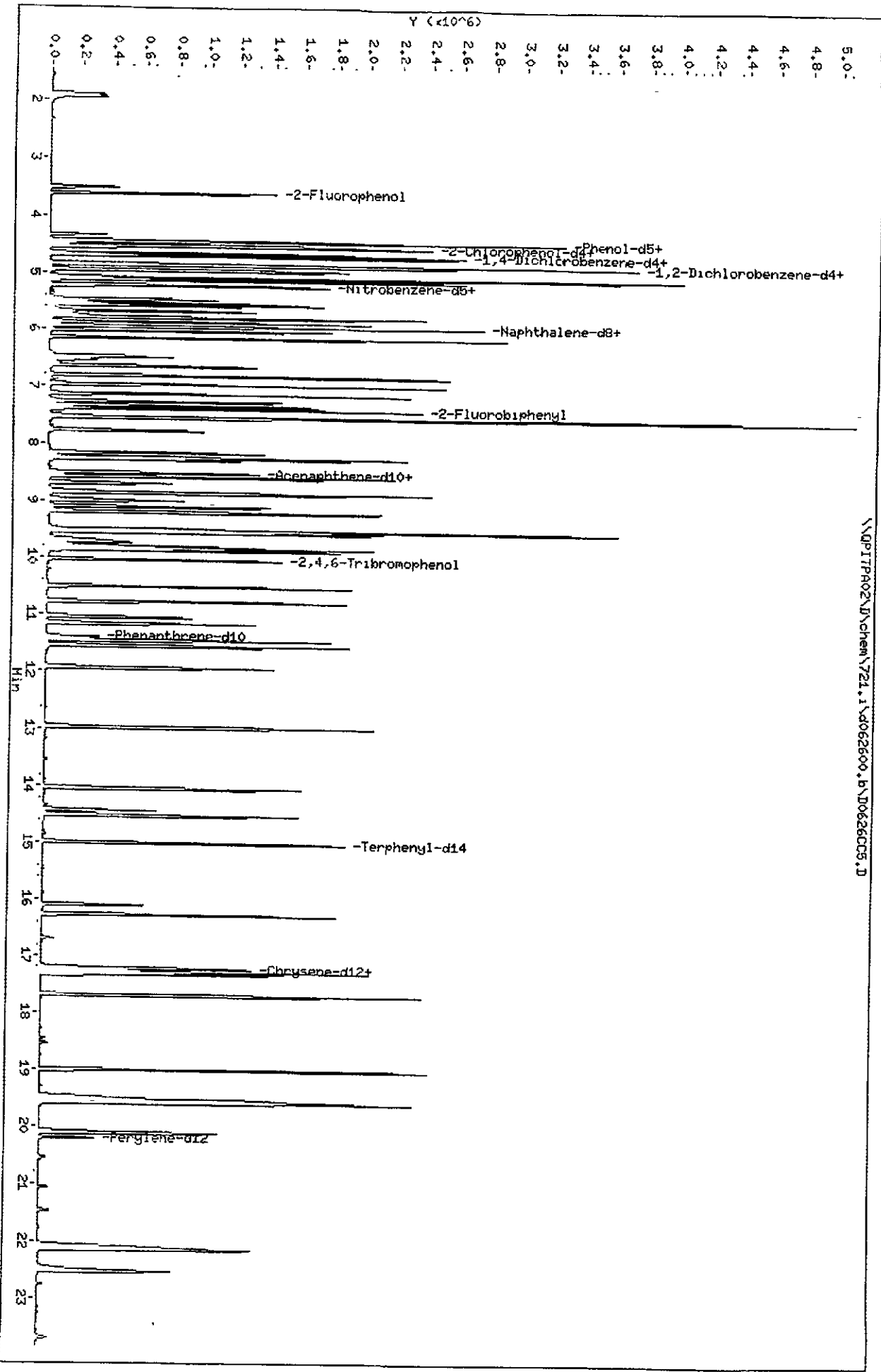
Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



Data File: \\QPI\PA02\N\chem\724.1\062600.b\062605.D
 Date : 26-JUN-2000 16:34
 Client ID: SST1460
 Sample Info: sstd160 (80UG/ML) 194-175-14 8270/01p/625
 Column phase: Hp5-MS

Instrument: 724.1
 Operator: 001562, DLF
 Column diameter: 0.25

\\QPI\PA02\N\chem\724.1\062600.b\062605.D



032 699

663 231

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d062600.b\D0626CC5.D
Lab Smp Id: sstd160 Client Smp ID: SSTD160
Inj Date : 26-JUN-2000 16:34
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd160 (80UG/ML) 194-175-14 8270/clp/625
Misc Info : sstd160,d062600.b,8270c.m,3-root.sub,1,5
Comment :
Method : \\QPITPA02\D\chem\721.i\d062600.b\8270c.m
Meth Date : 27-Jun-2000 08:08 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 16:34 Cal File: D0626CC5.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

AK 3
6-27-00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.689	4.689	(1.000)	89783	40 0000	(Q)
* 2 Naphthalene-d8	136	5.926	5.926	(1.000)	304124	40.0000	
* 3 Acenaphthene-d10	164	8.513	8.513	(1.000)	173290	40 0000	
* 4 Phenanthrene-d10	188	11.409	11.409	(1.000)	309128	40 0000	
* 5 Chrysene-d12	240	17.254	17.254	(1.000)	283655	40.0000	
* 6 Perylene-d12	264	20.217	20.217	(1.000)	212270	40 0000	
10 N-Nitrosodimethylamine	74	1.941	1.941	(0.414)	168936	160 000	156.30
9 Pyridine	79	1.881	1.881	(0.401)	276799	160 000	157.03(M)
16 Methyl methanesulfonate	80	3.520	3.520	(0.751)	318167	160 000	155.06
21 Aniline	93	4.454	4.454	(0.950)	617542	160 000	170.06(A)
22 Phenol	94	4.454	4.454	(0.950)	569876	160 000	169.49(A)
23 bis(2-Chloroethyl)ether	93	4.515	4.515	(0.963)	393956	160 000	166.20(A)
24 2-Chlorophenol	128	4.542	4.542	(0.968)	564267	160.000	169.48(A)
26 1,3-Dichlorobenzene	146	4.656	4.656	(0.993)	566590	160 000	165.53(A)
27 1,4-Dichlorobenzene	146	4.703	4.703	(1.003)	612320	160 000	166.55(A)
28 1,2-Dichlorobenzene	146	4.864	4.864	(1.037)	628241	160 000	177.06(A)
29 Benzyl Alcohol	108	4.837	4.837	(1.032)	297653	160 000	168.15(A)
30 2-Methylphenol	108	4.938	4.938	(1.053)	372912	160 000	164.86(A)
31 2,2'-oxybis(1-Chloropropane)	45	4.965	4.965	(1.059)	465806	160 000	163.93(AQ)
32 N-Nitroso-di-n-propylamine	70	5.126	5.126	(1.093)	330818	160.000	162.47(A)
192 4-Methylphenol	108	5.079	5.079	(1.083)	449178	160.000	170.70(A)
34 Hexachloroethane	117	5.133	5.133	(1.095)	285005	160 000	172.16(A)
35 Nitrobenzene	77	5.240	5.240	(0.884)	555915	160.000	167.86(A)
41 Isophorone	82	5.475	5.475	(0.924)	792467	160 000	159.60
42 2-Nitrophenol	139	5.543	5.543	(0.935)	287886	160 000	166.63(A)
43 2,4-Dimethylphenol	107	5.583	5.583	(0.942)	490465	160.000	167.43(A)

663 232

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
=====	=====	==	=====	=====	=====	=====	=====
44 bis(2-Chloroethoxy)methane	93	5.684	5.684	(0.959)	444745	160.000	166.02(A)
48 2,4-Dichlorophenol	162	5.791	5.791	(0.977)	428705	160.000	172.86(A)
49 Benzoic Acid	122	5.798	5.798	(0.978)	318377	160.000	172.48(A)
50 1,2,4-Trichlorobenzene	180	5.879	5.879	(0.992)	467739	160.000	169.10(A)
51 Naphthalene	128	5.953	5.953	(1.005)	1441912	160.000	171.37(A)
52 4-Chloroaniline	127	6.033	6.033	(1.018)	558146	160.000	163.90(A)
56 Hexachlorobutadiene	225	6.154	6.154	(1.039)	369414	160.000	174.76(A)
59 4-Chloro-3-Methylphenol	107	6.658	6.658	(1.124)	383147	160.000	155.73
62 2-Methylnaphthalene	142	6.826	6.826	(1.152)	932731	160.000	169.53(A)
63 1-Methylnaphthalene	142	6.981	6.981	(1.178)	842461	160.000	167.79(A)
64 Hexachlorocyclopentadiene	237	7.142	7.142	(0.839)	436947	160.000	175.09(A)
66 2,4,6-Trichlorophenol	196	7.276	7.276	(0.855)	325869	160.000	168.17(A)
67 2,4,5-Trichlorophenol	196	7.350	7.350	(0.863)	342956	160.000	165.57(A)
70 2-Chloronaphthalene	162	7.552	7.552	(0.887)	983698	160.000	175.68(A)
73 2-Nitroaniline	65	7.787	7.787	(0.915)	297519	160.000	154.13
76 Dimethylphthalate	163	8.170	8.170	(0.960)	1034853	160.000	157.88
78 2,6-Dinitrotoluene	165	8.284	8.284	(0.973)	256369	160.000	161.01(A)
79 Acenaphthylene	152	8.251	8.251	(0.969)	1350582	160.000	165.78(A)
81 3-Nitroaniline	138	8.519	8.519	(1.001)	262198	160.000	162.54(A)
82 Acenaphthene	153	8.586	8.586	(1.009)	813646	160.000	162.88(A)
83 2,4-Dinitrophenol	184	8.707	8.707	(1.023)	190693	160.000	170.44(A)
85 4-Nitrophenol	109	8.862	8.862	(1.041)	285723	160.000	165.51(A)
86 Dibenzofuran	168	8.875	8.875	(1.043)	1237978	160.000	166.05(A)
87 2,4-Dinitrotoluene	165	9.010	9.010	(1.058)	340511	160.000	162.65(A)
91 2,3,5,6-Tetrachlorophenol	232	9.111	9.111	(1.070)	309169	160.000	164.82(A)
88 2,3,4,6-Tetrachlorophenol	232	9.211	9.211	(1.082)	319525	160.000	165.01(A)
92 2-Naphthylamine	143	9.205	9.205	(1.081)	464724	160.000	138.39
93 Diethylphthalate	149	9.520	9.520	(1.118)	1327529	160.000	168.94(A)
94 Fluorene	166	9.534	9.534	(1.120)	1064534	160.000	172.08(A)
95 4-Chlorophenyl-phenylether	204	9.567	9.567	(1.124)	553572	160.000	169.91(A)
96 4-Nitroaniline	138	9.735	9.735	(1.144)	244350	160.000	155.08
98 4,6-Dinitro-2-methylphenol	198	9.803	9.803	(0.859)	244213	160.000	172.76(A)
99 N-Nitrosodiphenylamine (1)	169	9.843	9.843	(0.863)	704699	160.000	174.12(A)
100 1,2-Diphenylhydrazine	77	9.883	9.883	(0.866)	1255155	160.000	176.72(A)
106 4-Bromophenyl-phenylether	248	10.528	10.528	(0.923)	326330	160.000	175.79(A)
107 Hexachlorobenzene	284	10.797	10.797	(0.946)	415456	160.000	173.02(A)
111 Pentachlorophenol	266	11.180	11.180	(0.980)	277271	160.000	177.14(A)
115 Phenanthrene	178	11.469	11.469	(1.005)	1389079	160.000	170.82(A)
116 Anthracene	178	11.570	11.570	(1.014)	1410175	160.000	170.65(A)
119 Carbazole	167	11.953	11.953	(1.048)	1191210	160.000	169.29(A)
120 Di-n-Butylphthalate	149	12.974	12.974	(1.137)	1969455	160.000	169.85(A)
123 Fluoranthene	202	14.049	14.049	(1.231)	1454638	160.000	167.27(A)
124 Benzidine	184	14.425	14.425	(0.836)	456309	160.000	148.00
125 Pyrene	202	14.526	14.526	(0.842)	1417845	160.000	169.25(A)
131 Butylbenzylphthalate	149	16.280	16.280	(0.944)	815013	160.000	167.21(A)
135 3,3'-Dichlorobenzidine	252	17.295	17.295	(1.002)	581969	160.000	173.90(A)
136 Benzo(a)Anthracene	228	17.227	17.227	(0.998)	1291978	160.000	169.77(A)

663 233

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	=====	==	=====	=====	=====	=====	=====
137 Chrysene	228	17.335	17.335	(1.005)	1277417	160.000	175.94 (A)
139 bis(2-ethylhexyl)Phthalate	149	17.698	17.698	(1.026)	1209732	160.000	174.56 (A)
140 Di-n-octylphthalate	149	19.021	19.021	(0.941)	2055037	160.000	181.77 (A)
141 Benzo(b)fluoranthene	252	19.552	19.552	(0.967)	1672941	160.000	210.07 (A)
142 Benzo(k)fluoranthene	252	19.606	19.606	(0.970)	1102538	160.000	157.14 (MH)
143 7,12-dimethylbenz[a]anthracen	256	19.599	19.599	(0.969)	697492	160.000	193.15 (A)
146 Benzo(a)pyrene	252	20.130	20.130	(0.996)	1108191	160.000	178.12 (A)
149 Indeno(1,2,3-cd)pyrene	276	22.119	22.119	(1.094)	1154456	160.000	184.79 (AM)
150 Dibenz(a,h)anthracene	278	22.159	22.159	(1.096)	1232986	160.000	185.59 (A)
151 Benzo(g,h,i)perylene	276	22.542	22.542	(1.115)	1007907	160.000	172.80 (A)
\$ 154 Nitrobenzene-d5	82	5.220	5.220	(0.881)	535589	160.000	166.34 (A)
\$ 155 2-Fluorobiphenyl	172	7.404	7.404	(0.870)	961765	160.000	165.84 (A)
\$ 156 Terphenyl-d14	244	15.010	15.010	(0.870)	1230208	160.000	175.20 (A)
\$ 157 Phenol-d5	99	4.441	4.441	(0.947)	505314	160.000	168.13 (A)
\$ 158 2-Fluorophenol	112	3.621	3.621	(0.772)	400436	160.000	163.22 (A)
\$ 159 2,4,6-Tribromophenol	330	10.045	10.045	(0.880)	256066	160.000	177.58 (A)
\$ 186 2-Chlorophenol-d4	132	4.528	4.528	(0.966)	522988	160.000	169.74 (A)
\$ 187 1,2-Dichlorobenzene-d4	152	4.851	4.851	(1.034)	394772	160.000	177.97 (A)

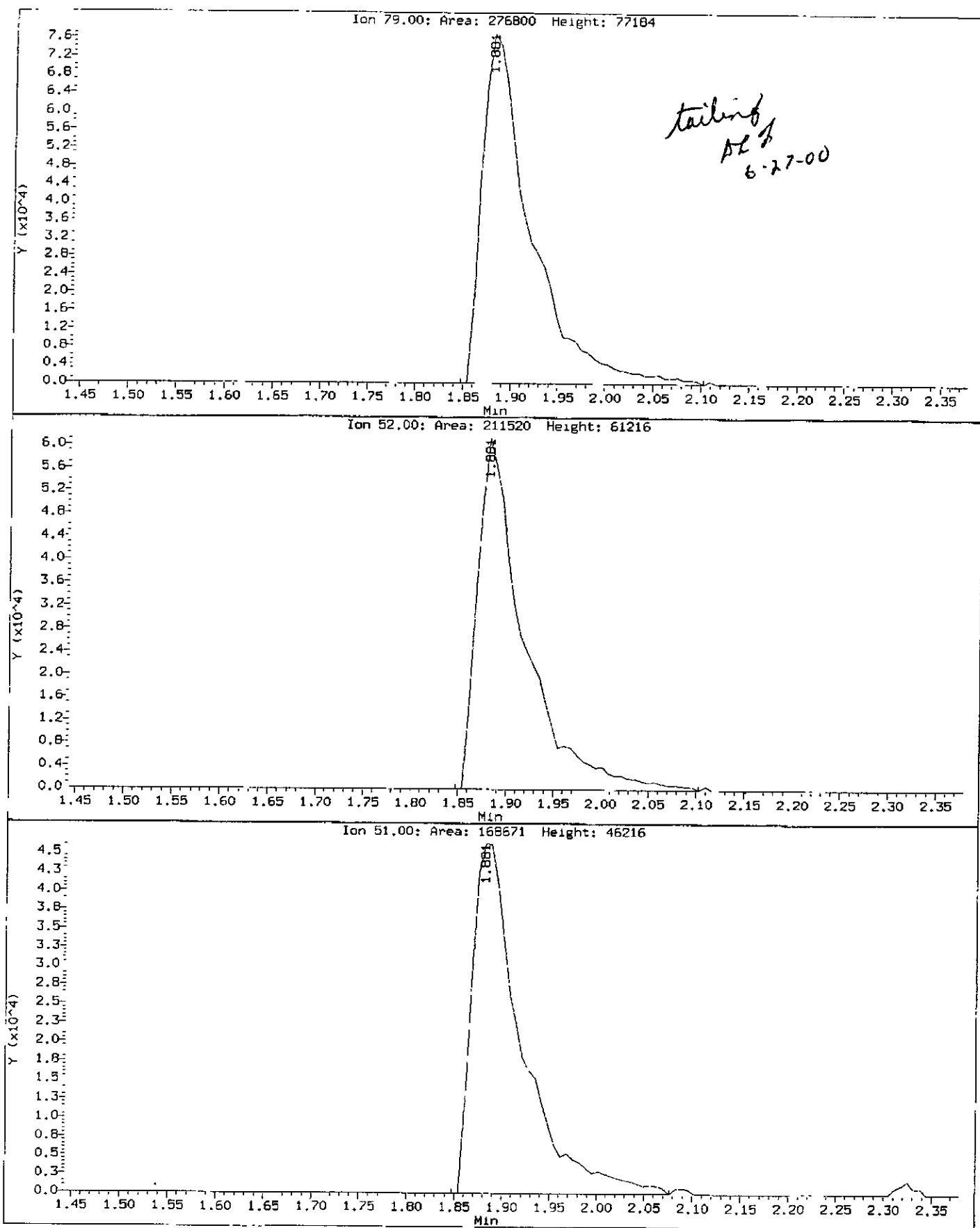
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: \\QPITPA02\N\chem\721.1\062600.b\0626005.D
Injection Date: 26-JUN-2000 16:34
Instrument: 721.1
Client Sample ID:

663 234

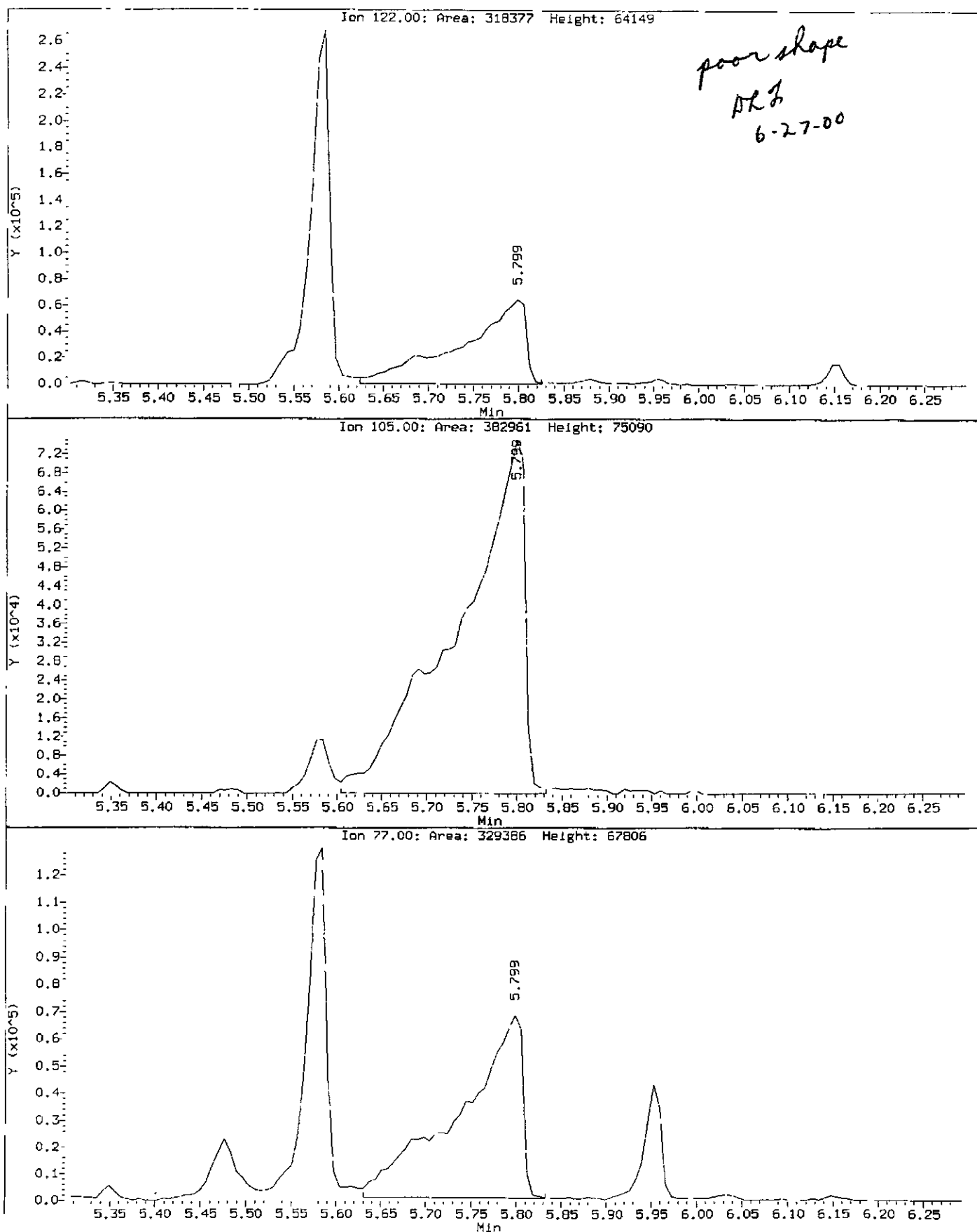
Compound: Pyridine
CAS Number: 110-86-1



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Instrument: 721.1
Client Sample ID:

663 235

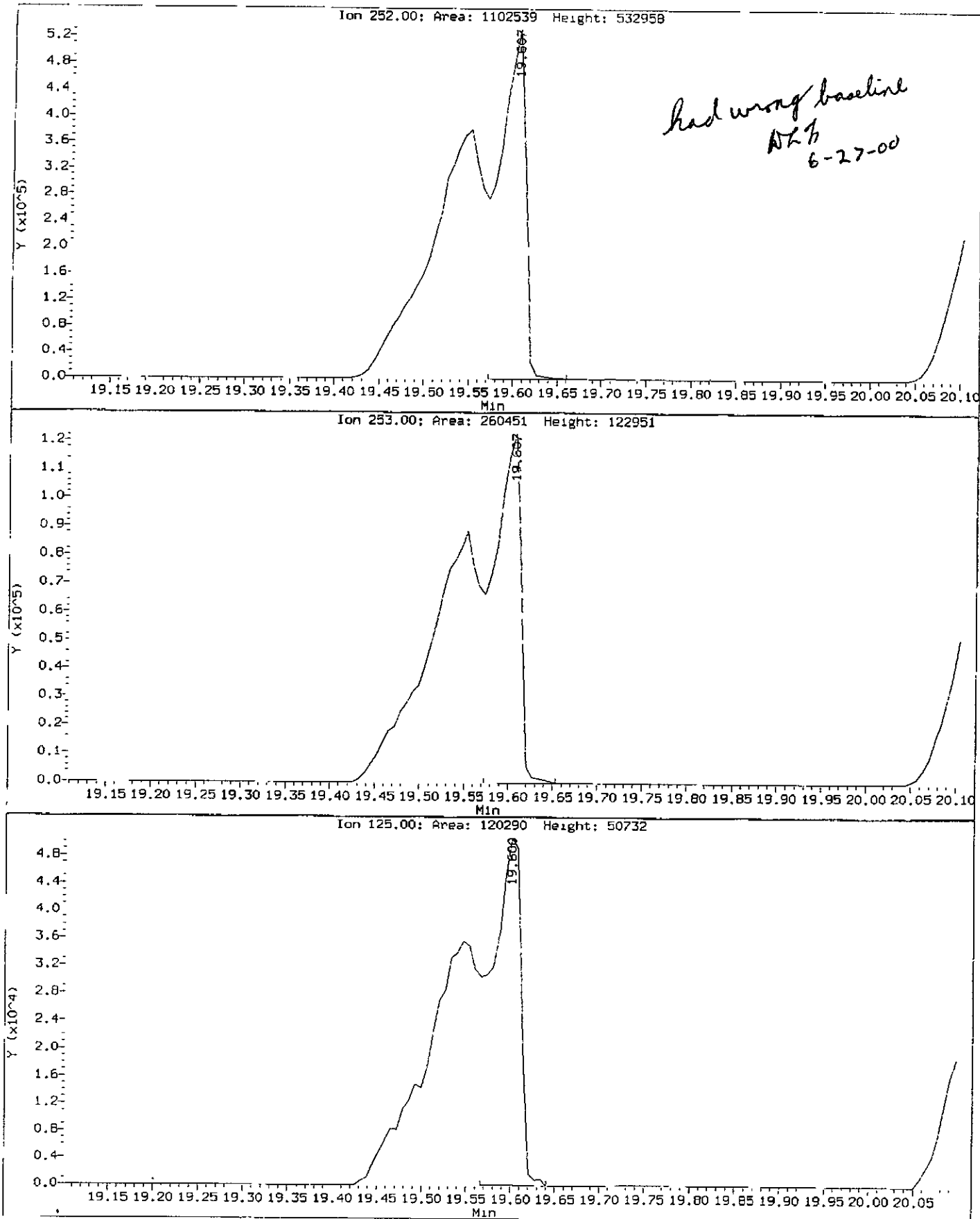
Compound: Benzoic Acid
CAS Number: 65-85-0



Data File: \\QPITPA02\Jchem\721.1\062600.b\062600.D
Injection Date: 26-JUN-2000 16:34
Instrument: 721.1
Client Sample ID:

663 236

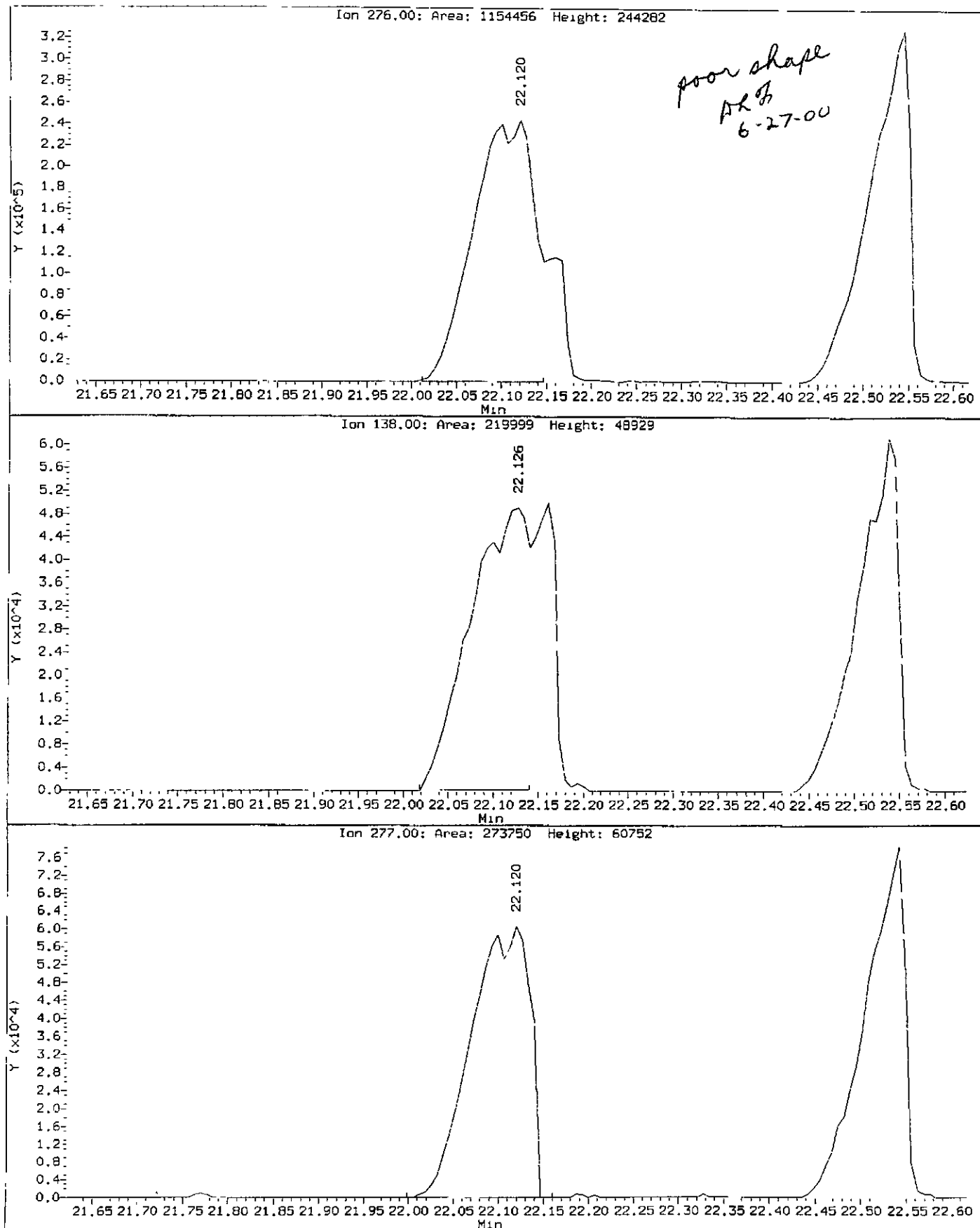
Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



Data File: \\QPITPA02\B\chem\721.1\d062600.b\d0626005.D
Injection Date: 26-JUN-2000 16:34
Instrument: 721.1
Client Sample ID:

663 237

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

663 238

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Instrument ID: 721

Calibration Date: 07/03/00 Time: 0930

Lab File ID: D0703CCC

Init. Calib. Date(s): 06/26/00 06/26/00

Init. Calib. Times: 1434 1634

GC Column: HP5-MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.498	1.354	0.01	9.6	20.0
bis(2-Chloroethyl) ether	1.056	0.962	0.01	8.9	50.0
2-Chlorophenol	1.483	1.306	0.01	11.9	50.0
1,3-Dichlorobenzene	1.525	1.487	0.01	2.5	50.0
1,4-Dichlorobenzene	1.638	1.588	0.01	3.0	20.0
1,2-Dichlorobenzene	1.581	1.492	0.01	5.6	50.0
2-Methylphenol	1.008	0.903	0.01	10.4	50.0
2,2'-oxybis(1-Chloropropane)	1.266	1.201	0.01	5.1	50.0
4-Methylphenol	1.172	0.999	0.01	14.8	50.0
Hexachloroethane	0.738	0.659	0.01	10.7	50.0
Nitrobenzene	0.436	0.423	0.01	3.0	50.0
Isophorone	0.653	0.624	0.01	4.4	50.0
2-Nitrophenol	0.227	0.223	0.01	1.8	20.0
2,4-Dimethylphenol	0.385	0.346	0.01	10.1	50.0
bis(2-Chloroethoxy) methane	0.352	0.324	0.01	8.0	50.0
N-Nitroso-di-n-propylamine	0.907	0.828	0.05	8.7	50.0
2,4-Dichlorophenol	0.326	0.315	0.01	3.4	20.0
1,2,4-Trichlorobenzene	0.364	0.342	0.01	6.0	50.0
Naphthalene	1.107	1.010	0.01	8.8	50.0
4-Chloroaniline	0.448	0.403	0.01	10.0	50.0
Hexachlorobutadiene	0.278	0.271	0.01	2.5	20.0
4-Chloro-3-Methylphenol	0.324	0.285	0.01	12.0	20.0
2-Methylnaphthalene	0.724	0.706	0.01	2.5	50.0
Hexachlorocyclopentadiene	0.576	0.588	0.05	2.1	50.0
2,4,6-Trichlorophenol	0.447	0.411	0.01	8.0	20.0
2,4,5-Trichlorophenol	0.478	0.446	0.01	6.7	50.0
2-Chloronaphthalene	1.292	1.212	0.01	6.2	50.0
2-Nitroaniline	0.445	0.427	0.01	4.0	50.0
Dimethylphthalate	1.513	1.430	0.01	5.5	50.0
Acenaphthylene	1.880	1.799	0.01	4.3	50.0
2,6-Dinitrotoluene	0.368	0.342	0.01	7.1	50.0
3-Nitroaniline	0.372	0.349	0.01	6.2	50.0
Acenaphthene	1.153	1.121	0.01	2.8	20.0
2,4-Dinitrophenol	0.258	0.220	0.05	14.7	50.0
4-Nitrophenol	0.399	0.348	0.05	12.8	50.0
Dibenzofuran	1.721	1.640	0.01	4.7	50.0
2,4-Dinitrotoluene	0.483	0.445	0.01	7.9	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

663 239

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0F300207

Instrument ID: 721 Calibration Date: 07/03/00 Time: 0930

Lab File ID: D0703CCC Init. Calib. Date(s): 06/26/00 06/26/00

Init. Calib. Times: 1434 1634

GC Column: HP5-MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.814	1.690	0.01	6.8	50.0
4-Chlorophenyl-phenylether	0.752	0.681	0.01	9.4	50.0
Fluorene	1.428	1.305	0.01	8.6	50.0
4-Nitroaniline	0.363	0.325	0.01	10.5	50.0
4,6-Dinitro-2-methylphenol	0.183	0.166	0.01	9.3	50.0
N-Nitrosodiphenylamine (1)	0.524	0.505	0.01	3.6	20.0
4-Bromophenyl-phenylether	0.240	0.246	0.01	2.5	50.0
Hexachlorobenzene	0.311	0.316	0.01	1.6	50.0
Pentachlorophenol	0.203	0.190	0.01	6.4	20.0
Phenanthrene	1.052	0.989	0.01	6.0	50.0
Anthracene	1.069	1.034	0.01	3.3	50.0
Carbazole	0.910	0.888	0.01	2.4	50.0
Di-n-Butylphthalate	1.500	1.500	0.01	0.0	50.0
Fluoranthene	1.125	1.067	0.01	5.2	20.0
Pyrene	1.181	1.141	0.01	3.4	50.0
Butylbenzylphthalate	0.687	0.666	0.01	3.0	50.0
3,3'-Dichlorobenzidine	0.472	0.460	0.01	2.5	50.0
Benzo(a) Anthracene	1.073	1.048	0.01	2.3	50.0
Chrysene	1.024	0.996	0.01	2.7	50.0
bis(2-ethylhexyl) Phthalate	0.977	0.916	0.01	6.2	50.0
Di-n-octylphthalate	2.130	2.064	0.01	3.1	20.0
Benzo(b) fluoranthene	1.501	1.271	0.01	15.3	50.0
Benzo(k) fluoranthene	1.322	1.400	0.01	5.9	50.0
Benzo(a) pyrene	1.172	1.134	0.01	3.2	20.0
Indeno(1,2,3-cd) pyrene	1.177	1.002	0.01	14.9	50.0
Dibenz(a,h) anthracene	1.252	1.042	0.01	16.8	50.0
Benzo(g,h,i) perylene	1.099	0.943	0.01	14.2	50.0
Pyridine	0.785	0.687	0.01	12.5	50.0
N-Nitrosodimethylamine	0.482	0.428	0.01	11.2	50.0
Aniline	1.618	1.408	0.01	13.0	50.0
Benzyl Alcohol	0.789	0.689	0.01	12.7	50.0
Benzoic Acid	0.243	0.176	0.01	27.6	50.0
1-Methylnaphthalene	0.660	0.648	0.01	1.8	50.0
2,3,4,6-Tetrachlorophenol	0.447	0.428	0.01	4.2	50.0
2,3,5,6-Tetrachlorophenol	0.433	0.419	0.01	3.2	50.0
1,2-Diphenylhydrazine	0.919	0.895	0.01	2.6	50.0
Benzidine	0.435	0.362	0.01	16.8	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

663 240

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Instrument ID: 721

Calibration Date: 07/03/00 Time: 0930

Lab File ID: D0703CCC

Init. Calib. Date(s): 06/26/00 06/26/00

Init. Calib. Times: 1434 1634

GC Column: HP5-MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Methyl methanesulfonate	0.914	0.702	0.01	23.2	50.0
2-Naphthylamine	0.775	0.855	0.01	10.3	50.0
7,12-dimethylbenz[a]anthracene	0.680	0.653	0.01	4.0	50.0
Nitrobenzene-d5	0.423	0.418	0.01	1.2	50.0
2-Fluorobiphenyl	1.339	1.306	0.01	2.5	50.0
Terphenyl-d14	0.990	1.014	0.01	2.4	50.0
Phenol-d5	1.339	1.244	0.01	7.1	50.0
2-Fluorophenol	1.093	1.000	0.01	8.5	50.0
2,4,6-Tribromophenol	0.186	0.197	0.01	5.9	50.0
2-Chlorophenol-d4	1.372	1.249	0.01	9.0	50.0
1,2-Dichlorobenzene-d4	0.988	0.969	0.01	1.9	50.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 721.i
Lab File ID: D0703CCC.D
Analysis Type: NONE

Injection Date: 03-JUL-2000 09:30
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d070300.b

8270.625

COMPOUND	EXPECTED CONC	MEASURED CONC.	%D	MAX %D
66 Pyridine	50.0000	43.7405	12.5	50.0
67 N-Nitrosodimethylamine	50.0000	44.4427	11.1	50.0
87 Methyl methanesulfonate	50.0000	38.3830	23.2	50.0
185 2-Fluorophenol	50.0000	45.7483	8.5	50.0
184 Phenol-d5	50.0000	46.4717	7.1	50.0
1 Phenol	50.0000	45.1786	9.6	20.0
68 Aniline	50.0000	43.5091	13.0	50.0
2 bis(2-Chloroethyl)ether	50.0000	45.5553	8.9	50.0
187 2-Chlorophenol-d4	50.0000	45.4880	9.0	50.0
3 2-Chlorophenol	50.0000	44.0351	11.9	50.0
4 1,3-Dichlorobenzene	50.0000	48.7433	2.5	50.0
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0
5 1,4-Dichlorobenzene	50.0000	48.4856	3.0	20.0
69 Benzyl Alcohol	50.0000	43.7085	12.6	50.0
188 1,2-Dichlorobenzene-d4	50.0000	49.0283	1.9	50.0
6 1,2-Dichlorobenzene	50.0000	47.1792	5.6	50.0
7 2-Methylphenol	50.0000	44.8066	10.4	50.0
8 2,2'-oxybis(1-Chloropropane)	50.0000	47.4377	5.1	50.0
9 4-Methylphenol	50.0000	42.6059	14.8	50.0
18 N-Nitroso-di-n-propylamine	50.0000	45.6269	8.7	50.0
12 Hexachloroethane	50.0000	44.6594	10.7	50.0
181 Nitrobenzene-d5	50.0000	49.2980	1.4	50.0
13 Nitrobenzene	50.0000	48.5924	2.8	50.0
14 Isophorone	50.0000	47.7836	4.4	50.0
15 2-Nitrophenol	50.0000	48.9840	2.0	20.0
16 2,4-Dimethylphenol	50.0000	44.9729	10.1	50.0
17 bis(2-Chloroethoxy)methane	50.0000	45.9936	8.0	50.0
71 Benzoic Acid	50.0000	36.1573	27.7	50.0
18 2,4-Dichlorophenol	50.0000	48.2921	3.4	20.0
19 1,2,4-Trichlorobenzene	50.0000	46.9962	6.0	50.0
32 Naphthalene-d8	40.0000	40.0000	0.0	50.0
20 Naphthalene	50.0000	45.6589	8.7	50.0
21 4-Chloroaniline	50.0000	44.9827	10.0	50.0
22 Hexachlorobutadiene	50.0000	48.7912	2.4	20.0
23 4-Chloro-3-Methylphenol	50.0000	44.0389	11.9	20.0
24 2-Methylnaphthalene	50.0000	48.7995	2.4	50.0
72 1-Methylnaphthalene	50.0000	49.0387	1.9	50.0
25 Hexachlorocyclopentadiene	50.0000	51.0496	2.1	50.0
26 2,4,6-Trichlorophenol	50.0000	45.9379	8.1	20.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

663 242

Instrument ID: 721.i
Lab File ID: D0703CCC.D
Analysis Type: NONE

Injection Date: 03-JUL-2000 09:30
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d070300.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
27 2,4,5-Trichlorophenol	50.0000	46.6073	6.8	50.0
182 2-Fluorobiphenyl	50.0000	48.7843	2.4	50.0
28 2-Chloronaphthalene	50.0000	46.8837	6.2	50.0
29 2-Nitroaniline	50.0000	47.9596	4.1	50.0
30 Dimethylphthalate	50.0000	47.2525	5.5	50.0
31 Acenaphthylene	50.0000	47.8347	4.3	50.0
32 2,6-Dinitrotoluene	50.0000	46.4582	7.1	50.0
33 3-Nitroaniline	50.0000	46.9117	6.2	50.0
52 Acenaphthene-d10	40.0000	40.0000	0.0	50.0
34 Acenaphthene	50.0000	48.6060	2.8	20.0
35 2,4-Dinitrophenol	50.0000	42.5300	14.9	50.0
36 4-Nitrophenol	50.0000	43.6905	12.6	50.0
37 Dibenzofuran	50.0000	47.6405	4.7	50.0
38 2,4-Dinitrotoluene	50.0000	46.0243	8.0	50.0
77 2,3,5,6-Tetrachlorophenol	50.0000	48.4223	3.2	50.0
114 2-Naphthylamine	50.0000	55.1306	10.3	50.0
76 2,3,4,6-Tetrachlorophenol	50.0000	47.8352	4.3	50.0
39 Diethylphthalate	50.0000	46.6007	6.8	50.0
41 Fluorene	50.0000	45.7014	8.6	50.0
40 4-Chlorophenyl-phenylether	50.0000	45.3022	9.4	50.0
42 4-Nitroaniline	50.0000	44.7379	10.5	50.0
43 4,6-Dinitro-2-methylphenol	50.0000	45.3218	9.4	50.0
44 N-Nitrosodiphenylamine (1)	50.0000	48.2236	3.6	20.0
78 1,2-Diphenylhydrazine	50.0000	48.7117	2.6	50.0
186 2,4,6-Tribromophenol	50.0000	52.8339	5.7	50.0
45 4-Bromophenyl-phenylether	50.0000	51.1151	2.2	50.0
46 Hexachlorobenzene	50.0000	50.9077	1.8	50.0
47 Pentachlorophenol	50.0000	46.8508	6.3	20.0
78 Phenanthrene-d10	40.0000	40.0000	0.0	50.0
48 Phenanthrene	50.0000	46.9784	6.0	50.0
49 Anthracene	50.0000	48.3698	3.3	50.0
50 Carbazole	50.0000	48.7738	2.5	50.0
51 Di-n-Butylphthalate	50.0000	49.9737	0.1	50.0
52 Fluoranthene	50.0000	47.4030	5.2	20.0
79 Benzidine	50.0000	41.6596	16.7	50.0
53 Pyrene	50.0000	48.2896	3.4	50.0
183 Terphenyl-d14	50.0000	51.2040	2.4	50.0
54 Butylbenzylphthalate	50.0000	48.4357	3.1	50.0
56 Benzo(a)Anthracene	50.0000	48.8119	2.4	50.0

663 243

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

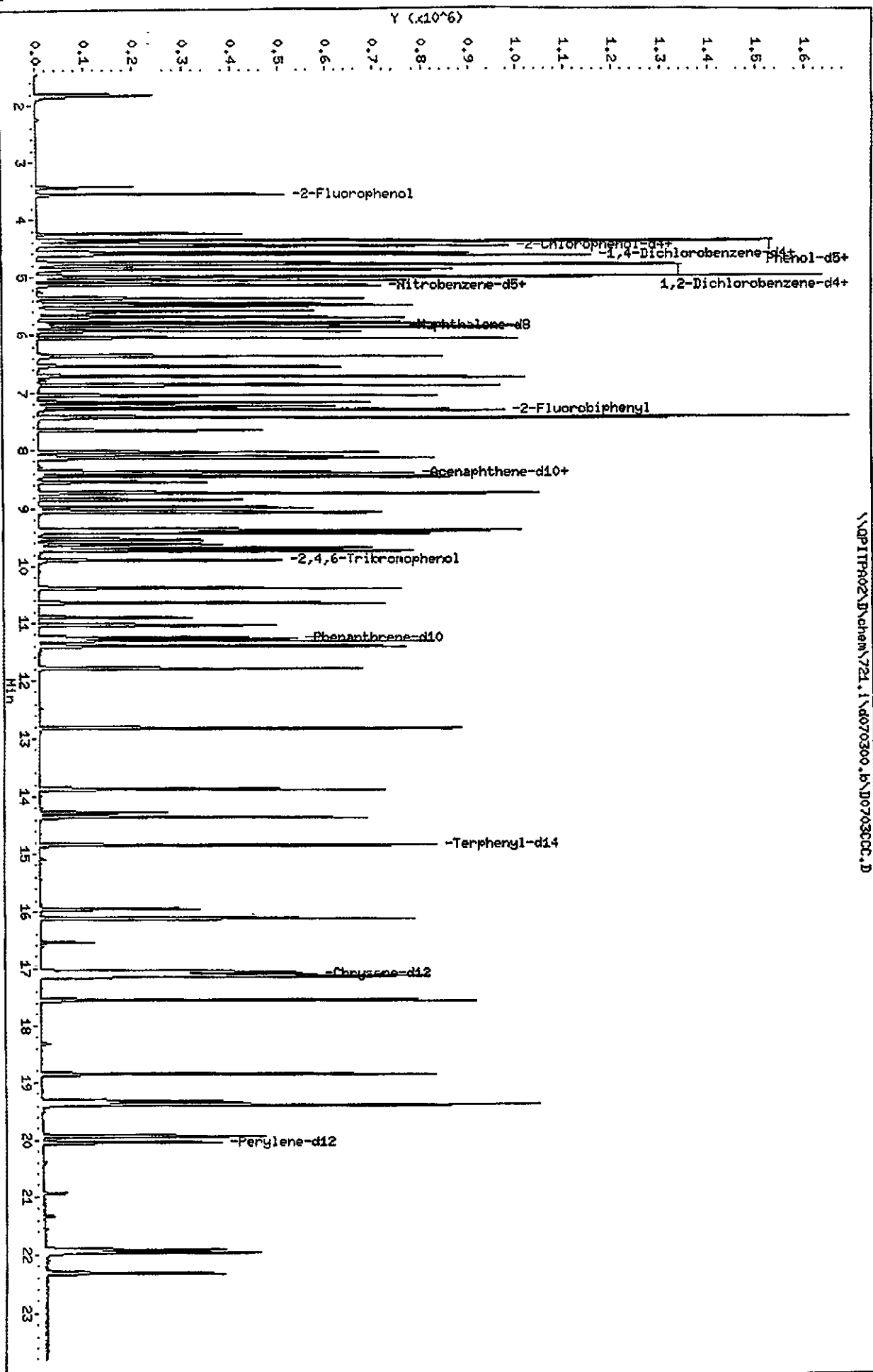
Instrument ID: 721.i
Lab File ID: D0703CCC.D
Analysis Type: NONE

Injection Date: 03-JUL-2000 09:30
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d070300.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
-----	-----	-----	-----	-----
90 Chrysene-d12	40.0000	40.0000	0.0	50.0
55 3,3'-Dichlorobenzidine	50.0000	48.7441	2.5	50.0
57 Chrysene	50.0000	48.6539	2.7	50.0
58 bis(2-ethylhexyl)Phthalate	50.0000	46.8443	6.3	50.0
59 Di-n-octylphthalate	50.0000	48.4417	3.1	20.0
60 Benzo(b)fluoranthene	50.0000	42.3539	15.3	50.0
61 Benzo(k)fluoranthene	50.0000	52.9319	5.9	50.0
143 7,12-dimethylbenz(a)anthracen	50.0000	48.0167	4.0	50.0
62 Benzo(a)pyrene	50.0000	48.3585	3.3	20.0
101 Perylene-d12	40.0000	40.0000	0.0	50.0
63 Indeno(1,2,3-cd)pyrene	50.0000	42.5468	14.9	50.0
64 Dibenz(a,h)anthracene	50.0000	41.5995	16.8	50.0
65 Benzo(g,h,i)perylene	50.0000	42.8853	14.2	50.0

Data File: \\GPITP802\J\chem\721.i\070300.b\070300C.D
 Date : 03-JUL-2000 09:30
 Client ID: SST060
 Sample Info: sstd060 (250G/ML) 194-179-7 8270/cjp/625
 Column phase: Hp5-MS

Instrument: 721.i
 Operator: 001662, DLF
 Column diameter: 0.25



663 245

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d070300.b\D0703CCC.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 03-JUL-2000 09:30
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd050 (25UG/ML) 194-179-7 8270/clp/625
Misc Info : sstd50,d070300.b,8270c.m,3-root.sub,2
Comment :
Method : \\QPITPA02\D\chem\721.i\d070300.b\8270c.m
Meth Date : 03-Jul-2000 10:05 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 14:34 Cal File: D0626CC1.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

DLH
7-3-00

Compound Sublist: 3-root.sub

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.598	4.598	(1.000)	106782	40.0000	
* 2 Naphthalene-d8	136	5.821	5.821	(1.000)	366356	40.0000	
* 3 Acenaphthene-d10	164	8.381	8.381	(1.000)	205085	40.0000	
* 4 Phenanthrene-d10	188	11.257	11.257	(1.000)	364931	40.0000	
* 5 Chrysene-d12	240	17.089	17.089	(1.000)	338717	40.0000	
* 6 Perylene-d12	264	20.045	20.045	(1.000)	242882	40.0000	
10 N-Nitrosodimethylamine	74	1.816	1.816	(0.395)	57130	50.0000	44.443
9 Pyridine	79	1.796	1.796	(0.391)	91700	50.0000	43.740 (M)
16 Methyl methanesulfonate	80	3.429	3.429	(0.746)	93668	50.0000	38.383
21 Aniline	93	4.370	4.370	(0.950)	187912	50.0000	43.509
22 Phenol	94	4.370	4.370	(0.950)	180664	50.0000	45.178
23 bis(2-Chloroethyl)ether	93	4.423	4.423	(0.962)	128430	50.0000	45.555
24 2-Chlorophenol	128	4.457	4.457	(0.969)	174372	50.0000	44.035
26 1,3-Dichlorobenzene	146	4.571	4.571	(0.994)	198433	50.0000	48.743
27 1,4-Dichlorobenzene	146	4.611	4.611	(1.003)	212001	50.0000	48.486
28 1,2-Dichlorobenzene	146	4.773	4.773	(1.038)	199092	50.0000	47.179
29 Benzyl Alcohol	108	4.739	4.739	(1.031)	92018	50.0000	43.708
30 2-Methylphenol	108	4.860	4.860	(1.057)	120545	50.0000	44.807
31 2,2'-oxybis(1-Chloropropane)	45	4.873	4.873	(1.060)	160318	50.0000	47.438
32 N-Nitroso-di-n-propylamine	70	5.001	5.001	(1.088)	110494	50.0000	45.627
192 4-Methylphenol	108	4.981	4.981	(1.083)	133340	50.0000	42.606
34 Hexachloroethane	117	5.041	5.041	(1.096)	87932	50.0000	44.659
35 Nitrobenzene	77	5.136	5.136	(0.882)	193857	50.0000	48.592
41 Isophorone	82	5.357	5.357	(0.920)	285811	50.0000	47.784
42 2-Nitrophenol	139	5.438	5.438	(0.934)	101945	50.0000	48.984
43 2,4-Dimethylphenol	107	5.478	5.478	(0.941)	158696	50.0000	44.973

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
44 bis(2-Chloroethoxy)methane	93	5.572	5.572	(0.957)	148426	50.0000	45.994
48 2,4-Dichlorophenol	162	5.680	5.680	(0.976)	144274	50.0000	48.292
49 Benzoic Acid	122	5.626	5.626	(0.967)	80398	50.0000	36.157
50 1,2,4-Trichlorobenzene	180	5.774	5.774	(0.992)	156589	50.0000	46.996
51 Naphthalene	128	5.841	5.841	(1.003)	462790	50.0000	45.659
52 4-Chloroaniline	127	5.922	5.922	(1.017)	184534	50.0000	44.983
56 Hexachlorobutadiene	225	6.043	6.043	(1.038)	124238	50.0000	48.791
59 4-Chloro-3-Methylphenol	107	6.533	6.533	(1.122)	130524	50.0000	44.039
62 2-Methylnaphthalene	142	6.701	6.701	(1.151)	323433	50.0000	48.799
63 1-Methylnaphthalene	142	6.856	6.856	(1.178)	296597	50.0000	49.039
64 Hexachlorocyclopentadiene	237	7.024	7.024	(0.838)	150771	50.0000	51.050
66 2,4,6-Trichlorophenol	196	7.151	7.151	(0.853)	105349	50.0000	45.938
67 2,4,5-Trichlorophenol	196	7.212	7.212	(0.861)	114252	50.0000	46.607
70 2-Chloronaphthalene	162	7.420	7.420	(0.885)	310693	50.0000	46.884
73 2-Nitroaniline	65	7.642	7.642	(0.912)	109563	50.0000	47.960
76 Dimethylphthalate	163	8.025	8.025	(0.958)	366560	50.0000	47.252
78 2,6-Dinitrotoluene	165	8.132	8.132	(0.970)	87548	50.0000	46.458
79 Acenaphthylene	152	8.105	8.105	(0.967)	461209	50.0000	47.835
81 3-Nitroaniline	138	8.367	8.367	(0.998)	89559	50.0000	46.912
82 Acenaphthene	153	8.441	8.441	(1.007)	287344	50.0000	48.606
83 2,4-Dinitrophenol	184	8.542	8.542	(1.019)	56313	50.0000	42.530
85 4-Nitrophenol	109	8.717	8.717	(1.040)	89260	50.0000	43.690
86 Dibenzofuran	168	8.724	8.724	(1.041)	420339	50.0000	47.640
87 2,4-Dinitrotoluene	165	8.838	8.838	(1.055)	114029	50.0000	46.024
91 2,3,5,6-Tetrachlorophenol	232	8.972	8.972	(1.071)	107496	50.0000	48.422
88 2,3,4,6-Tetrachlorophenol	232	9.060	9.060	(1.081)	109622	50.0000	47.835
92 2-Naphthylamine	143	9.033	9.033	(1.078)	219095	50.0000	55.131
93 Diethylphthalate	149	9.355	9.355	(1.116)	433387	50.0000	46.601
94 Fluorene	166	9.375	9.375	(1.119)	334599	50.0000	45.701
95 4-Chlorophenyl-phenylether	204	9.416	9.416	(1.123)	174676	50.0000	45.302
96 4-Nitroaniline	138	9.537	9.537	(1.138)	83422	50.0000	44.738
98 4,6-Dinitro-2-methylphenol	198	9.611	9.611	(0.854)	75631	50.0000	45.322
99 N-Nitrosodiphenylamine (1)	169	9.671	9.671	(0.859)	230401	50.0000	48.224
100 1,2-Diphenylhydrazine	77	9.718	9.718	(0.863)	408417	50.0000	48.712
106 4-Bromophenyl-phenylether	248	10.377	10.377	(0.922)	112016	50.0000	51.115
107 Hexachlorobenzene	284	10.639	10.639	(0.945)	144307	50.0000	50.908
111 Pentachlorophenol	266	11.028	11.028	(0.980)	86574	50.0000	46.851
115 Phenanthrene	178	11.304	11.304	(1.004)	450973	50.0000	46.978
116 Anthracene	178	11.398	11.398	(1.013)	471851	50.0000	48.370
119 Carbazole	167	11.788	11.788	(1.047)	405148	50.0000	48.774
120 Di-n-Butylphthalate	149	12.816	12.816	(1.138)	684053	50.0000	49.974
123 Fluoranthene	202	13.877	13.877	(1.233)	486652	50.0000	47.403
124 Benzidine	184	14.267	14.267	(0.835)	153375	50.0000	41.660
125 Pyrene	202	14.348	14.348	(0.840)	483046	50.0000	48.290
131 Butylbenzylphthalate	149	16.121	16.121	(0.943)	281907	50.0000	48.436
135 3,3'-Dichlorobenzidine	252	17.123	17.123	(1.002)	194794	50.0000	48.744
136 Benzo(a)Anthracene	228	17.049	17.049	(0.998)	443568	50.0000	48.812

663 247

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT (NG)	ON-COL (NG)
-----	----		----	-----	-----	-----	-----	-----
137 Chrysene	228		17.143	17.143	(1.003)	421834	50.0000	48.654
139 bis(2-ethylhexyl) Phthalate	149		17.539	17.539	(1.026)	387648	50.0000	46.844
140 Di-n-octylphthalate	149		18.856	18.856	(0.941)	626651	50.0000	48.442
141 Benzo(b)fluoranthene	252		19.333	19.333	(0.964)	385938	50.0000	42.354
142 Benzo(k)fluoranthene	252		19.387	19.387	(0.967)	424936	50.0000	52.932
143 7,12-dimethylbenz(a)anthracen	256		19.394	19.394	(0.967)	198398	50.0000	48.017
146 Benzo(a)pyrene	252		19.938	19.938	(0.995)	344260	50.0000	48.358
149 Indeno(1,2,3-cd)pyrene	276		21.920	21.920	(1.094)	304137	50.0000	42.547
150 Dibenz(a,h)anthracene	278		21.974	21.974	(1.096)	316226	50.0000	41.599
151 Benzo(g,h,i)perylene	276		22.330	22.330	(1.114)	286209	50.0000	42.885
\$ 154 Nitrobenzene-d5	82		5.115	5.115	(0.879)	191209	50.0000	49.298
\$ 155 2-Fluorobiphenyl	172		7.272	7.272	(0.868)	334815	50.0000	48.784
\$ 156 Terphenyl-d14	244		14.845	14.845	(0.869)	429346	50.0000	51.204
\$ 157 Phenol-d5	99		4.356	4.356	(0.947)	166112	50.0000	46.472
\$ 158 2-Fluorophenol	112		3.557	3.557	(0.774)	133485	50.0000	45.748
\$ 159 2,4,6-Tribromophenol	330		9.893	9.893	(0.879)	89938	50.0000	52.834
\$ 186 2-Chlorophenol-d4	132		4.443	4.443	(0.966)	166688	50.0000	45.488
\$ 187 1,2-Dichlorobenzene-d4	152		4.766	4.766	(1.037)	129345	50.0000	49.028

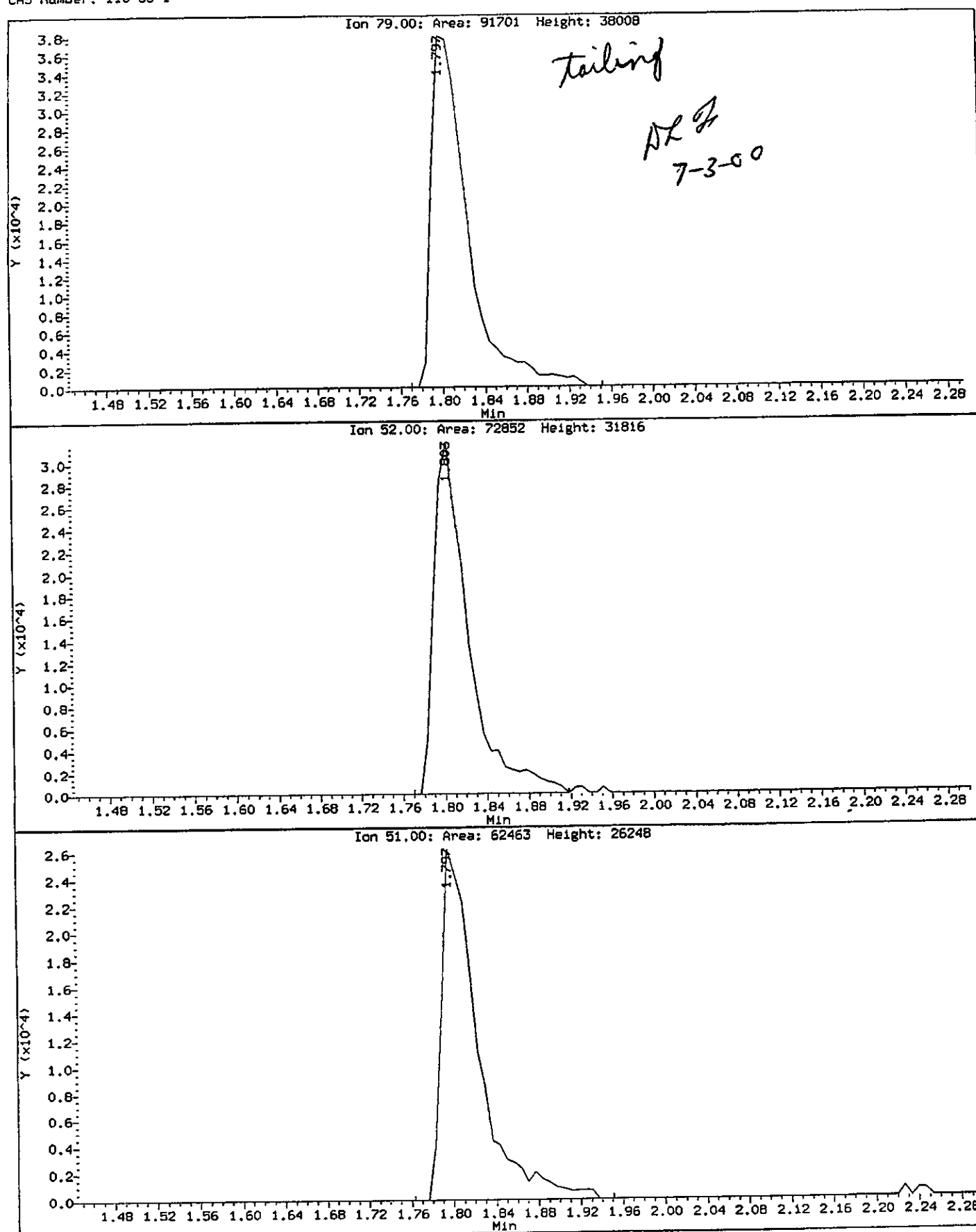
QC Flag Legend

M - Compound response manually integrated.

Data File: \\QPITPA02\D\chem\721.i\d070300.b\d0703CCC.D
Injection Date: 03-JUL-2000 09:30
Instrument: 721.i
Client Sample ID:

663 248

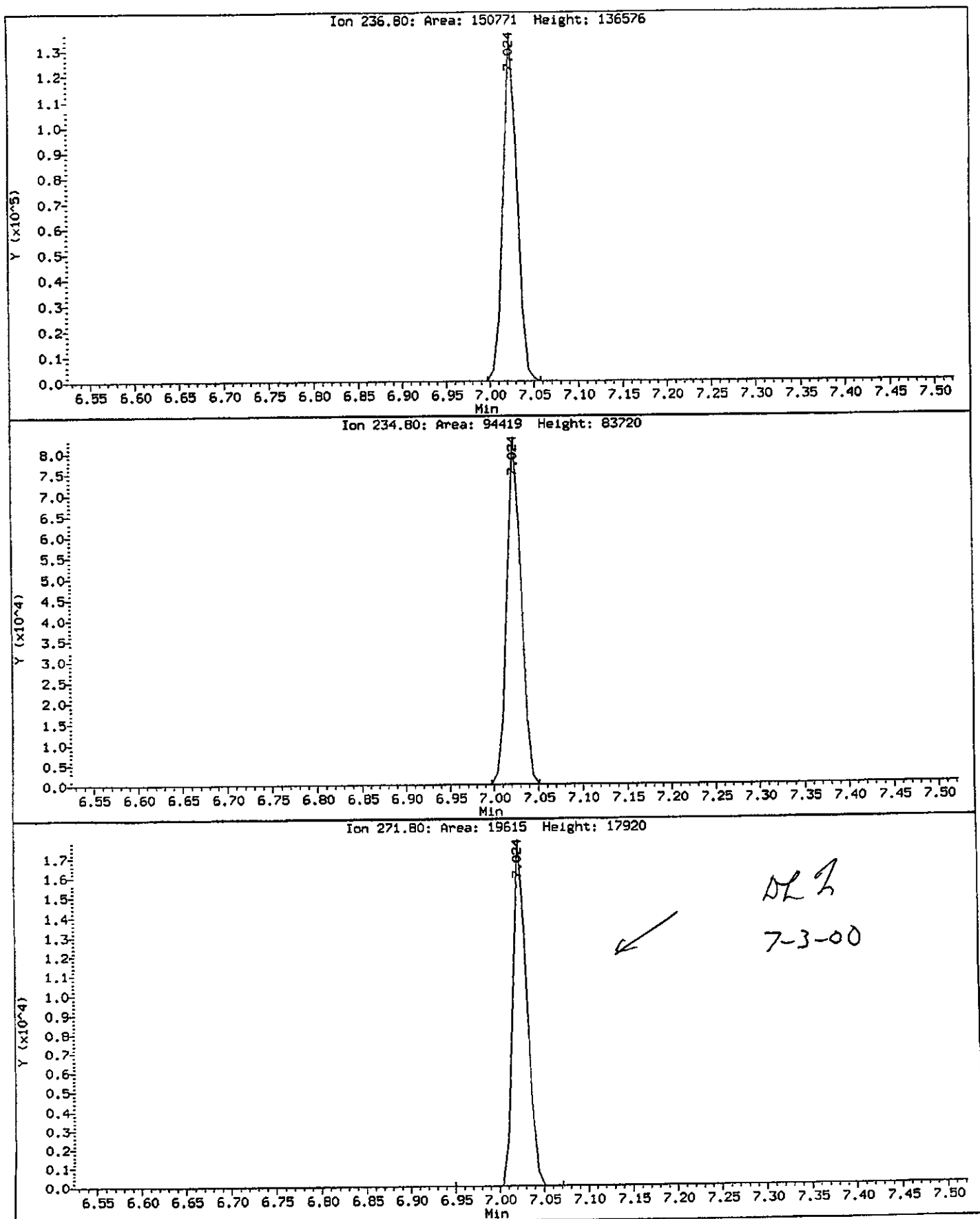
Compound: Pyridine
CAS Number: 110-86-1



Data File: \\QPITPA02\1\chem\721.1\1\070300.b\0703CCC.D
Injection Date: 03-JUL-2000 09:30
Instrument: 721.1
Client Sample ID: SST0050

663 249

Compound: Hexachlorocyclopentadiene
CAS Number: 77-47-4



FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

663 250

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Instrument ID: 721

Calibration Date: 07/05/00

Time: 1251

Lab File ID: D0705CCC

Init. Calib. Date(s): 06/26/00

06/26/00

Init. Calib. Times: 1434

1634

GC Column: HP5-MS

ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.498	1.376	0.01	8.1	20.0
bis(2-Chloroethyl) ether	1.056	0.965	0.01	8.6	50.0
2-Chlorophenol	1.483	1.342	0.01	9.5	50.0
1,3-Dichlorobenzene	1.525	1.527	0.01	0.1	50.0
1,4-Dichlorobenzene	1.638	1.590	0.01	2.9	20.0
1,2-Dichlorobenzene	1.581	1.481	0.01	6.3	50.0
2-Methylphenol	1.008	0.898	0.01	10.9	50.0
2,2'-oxybis(1-Chloropropane)	1.266	1.198	0.01	5.4	50.0
4-Methylphenol	1.172	0.982	0.01	16.2	50.0
Hexachloroethane	0.738	0.670	0.01	9.2	50.0
Nitrobenzene	0.436	0.422	0.01	3.2	50.0
Isophorone	0.653	0.614	0.01	6.0	50.0
2-Nitrophenol	0.227	0.220	0.01	3.1	20.0
2,4-Dimethylphenol	0.385	0.349	0.01	9.4	50.0
bis(2-Chloroethoxy) methane	0.352	0.314	0.01	10.8	50.0
N-Nitroso-di-n-propylamine	0.907	0.796	0.05	12.2	50.0
2,4-Dichlorophenol	0.326	0.308	0.01	5.5	20.0
1,2,4-Trichlorobenzene	0.364	0.349	0.01	4.1	50.0
Naphthalene	1.107	1.006	0.01	9.1	50.0
4-Chloroaniline	0.448	0.398	0.01	11.2	50.0
Hexachlorobutadiene	0.278	0.275	0.01	1.1	20.0
4-Chloro-3-Methylphenol	0.324	0.276	0.01	14.8	20.0
2-Methylnaphthalene	0.724	0.682	0.01	5.8	50.0
Hexachlorocyclopentadiene	0.576	0.586	0.05	1.7	50.0
2,4,6-Trichlorophenol	0.447	0.426	0.01	4.7	20.0
2,4,5-Trichlorophenol	0.478	0.446	0.01	6.7	50.0
2-Chloronaphthalene	1.292	1.277	0.01	1.2	50.0
2-Nitroaniline	0.445	0.421	0.01	5.4	50.0
Dimethylphthalate	1.513	1.466	0.01	3.1	50.0
Acenaphthylene	1.880	1.852	0.01	1.5	50.0
2,6-Dinitrotoluene	0.368	0.341	0.01	7.3	50.0
3-Nitroaniline	0.372	0.351	0.01	5.6	50.0
Acenaphthene	1.153	1.144	0.01	0.8	20.0
2,4-Dinitrophenol	0.258	0.195	0.05	24.4	50.0
4-Nitrophenol	0.399	0.352	0.05	11.8	50.0
Dibenzofuran	1.721	1.668	0.01	3.1	50.0
2,4-Dinitrotoluene	0.483	0.454	0.01	6.0	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

663 251

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Instrument ID: 721

Calibration Date: 07/05/00

Time: 1251

Lab File ID: D0705CCC

Init. Calib. Date(s): 06/26/00

06/26/00

Init. Calib. Times: 1434

1634

GC Column: HP5-MS

ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.814	1.683	0.01	7.2	50.0
4-Chlorophenyl-phenylether	0.752	0.682	0.01	9.3	50.0
Fluorene	1.428	1.319	0.01	7.6	50.0
4-Nitroaniline	0.363	0.328	0.01	9.6	50.0
4,6-Dinitro-2-methylphenol	0.183	0.161	0.01	12.0	50.0
N-Nitrosodiphenylamine (1)	0.524	0.515	0.01	1.7	20.0
4-Bromophenyl-phenylether	0.240	0.258	0.01	7.5	50.0
Hexachlorobenzene	0.311	0.335	0.01	7.7	50.0
Pentachlorophenol	0.203	0.190	0.01	6.4	20.0
Phenanthrene	1.052	1.013	0.01	3.7	50.0
Anthracene	1.069	1.041	0.01	2.6	50.0
Carbazole	0.910	0.901	0.01	1.0	50.0
Di-n-Butylphthalate	1.500	1.518	0.01	1.2	50.0
Fluoranthene	1.125	1.069	0.01	5.0	20.0
Pyrene	1.181	1.143	0.01	3.2	50.0
Butylbenzylphthalate	0.687	0.653	0.01	4.9	50.0
3,3'-Dichlorobenzidine	0.472	0.467	0.01	1.0	50.0
Benzo(a)Anthracene	1.073	1.056	0.01	1.6	50.0
Chrysene	1.024	0.997	0.01	2.6	50.0
bis(2-ethylhexyl)Phthalate	0.977	0.895	0.01	8.4	50.0
Di-n-octylphthalate	2.130	1.896	0.01	11.0	20.0
Benzo(b)fluoranthene	1.501	1.278	0.01	14.8	50.0
Benzo(k)fluoranthene	1.322	1.375	0.01	4.0	50.0
Benzo(a)pyrene	1.172	1.143	0.01	2.5	20.0
Indeno(1,2,3-cd)pyrene	1.177	1.068	0.01	9.3	50.0
Dibenz(a,h)anthracene	1.252	1.124	0.01	10.2	50.0
Benzo(g,h,i)perylene	1.099	1.071	0.01	2.5	50.0
Pyridine	0.785	0.711	0.01	9.4	50.0
N-Nitrosodimethylamine	0.482	0.431	0.01	10.6	50.0
Aniline	1.618	1.428	0.01	11.7	50.0
Benzyl Alcohol	0.789	0.685	0.01	13.2	50.0
Benzoic Acid	0.243	0.152	0.01	37.4	50.0
1-Methylnaphthalene	0.660	0.642	0.01	2.7	50.0
2,3,4,6-Tetrachlorophenol	0.447	0.428	0.01	4.2	50.0
2,3,5,6-Tetrachlorophenol	0.433	0.433	0.01	0.0	50.0
1,2-Diphenylhydrazine	0.919	0.945	0.01	2.8	50.0
Benzidine	0.435	0.364	0.01	16.3	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

663 252

Lab Code: STL PIT

Case No.:

SAS No.:

SDG No.: C0F300207

Instrument ID: 721

Calibration Date: 07/05/00 Time: 1251

Lab File ID: D0705CCC

Init. Calib. Date(s): 06/26/00 06/26/00

Init. Calib. Times: 1434 1634

GC Column: HP5-MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Methyl methanesulfonate	0.914	0.681	0.01	25.5	50.0
2-Naphthylamine	0.775	0.766	0.01	1.2	50.0
7,12-dimethylbenz [a] anthrace	0.680	0.633	0.01	6.9	50.0
=====	=====	=====	=====	=====	=====
Nitrobenzene-d5	0.423	0.422	0.01	0.2	50.0
2-Fluorobiphenyl	1.339	1.345	0.01	0.4	50.0
Terphenyl-d14	0.990	1.010	0.01	2.0	50.0
Phenol-d5	1.339	1.219	0.01	9.0	50.0
2-Fluorophenol	1.093	1.016	0.01	7.0	50.0
2,4,6-Tribromophenol	0.186	0.200	0.01	7.5	50.0
2-Chlorophenol-d4	1.372	1.250	0.01	8.9	50.0
1,2-Dichlorobenzene-d4	0.988	0.951	0.01	3.7	50.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: 721.i
 Lab File ID: D0705CCC.D
 Analysis Type: NONE

Injection Date: 05-JUL-2000 12:51
 Lab Sample ID: sstd50
 Method File: \\QPITPA02\D\chem\721.i\d070500.b

8270c

COMPOUND	EXPECTED CONC.	MEASURED CONC	%D	MAX %D
66 Pyridine	50.0000	45.2999	9.4	50.0
67 N-Nitrosodimethylamine	50.0000	44.7861	10.4	50.0
87 Methyl methanesulfonate	50.0000	37.2292	25.5	50.0
185 2-Fluorophenol	50.0000	46.4657	7.1	50.0
184 Phenol-d5	50.0000	45.5106	9.0	50.0
68 Aniline	50.0000	44.1204	11.8	50.0
1 Phenol	50.0000	45.9236	8.2	20.0
2 bis(2-Chloroethyl) ether	50.0000	45.6705	8.7	50.0
187 2-Chlorophenol-d4	50.0000	45.5140	9.0	50.0
3 2-Chlorophenol	50.0000	45.2393	9.5	50.0
4 1,3-Dichlorobenzene	50.0000	50.0620	0.1	50.0
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0
5 1,4-Dichlorobenzene	50.0000	48.5545	2.9	20.0
69 Benzyl Alcohol	50.0000	43.4541	13.1	50.0
188 1,2-Dichlorobenzene-d4	50.0000	48.1019	3.8	50.0
6 1,2-Dichlorobenzene	50.0000	46.8605	6.3	50.0
7 2-Methylphenol	50.0000	44.5752	10.8	50.0
8 2,2'-oxybis(1-Chloropropane)	50.0000	47.3091	5.4	50.0
9 4-Methylphenol	50.0000	41.8769	16.2	50.0
18 N-Nitroso-di-n-propylamine	50.0000	43.8943	12.2	50.0
12 Hexachloroethane	50.0000	45.4523	9.1	50.0
181 Nitrobenzene-d5	50.0000	49.8393	0.3	50.0
13 Nitrobenzene	50.0000	48.4173	3.2	50.0
14 Isophorone	50.0000	47.0180	6.0	50.0
15 2-Nitrophenol	50.0000	48.3642	3.3	20.0
16 2,4-Dimethylphenol	50.0000	45.3449	9.3	50.0
17 bis(2-Chloroethoxy)methane	50.0000	44.5696	10.9	50.0
71 Benzoic Acid	50.0000	31.3479	37.3	50.0
18 2,4-Dichlorophenol	50.0000	47.2895	5.4	20.0
19 1,2,4-Trichlorobenzene	50.0000	47.9749	4.1	50.0
32 Naphthalene-d8	40.0000	40.0000	0.0	50.0
20 Naphthalene	50.0000	45.4370	9.1	50.0
21 4-Chloroaniline	50.0000	44.4625	11.1	50.0
22 Hexachlorobutadiene	50.0000	49.4094	1.2	20.0
23 4-Chloro-3-Methylphenol	50.0000	42.7132	14.6	20.0
24 2-Methylnaphthalene	50.0000	47.1420	5.7	50.0
72 1-Methylnaphthalene	50.0000	48.6533	2.7	50.0
25 Hexachlorocyclopentadiene	50.0000	50.8823	1.8	50.0
26 2,4,6-Trichlorophenol	50.0000	47.5946	4.8	20.0

CONTINUING CALIBRATION COMPOUNDS
 PERCENT DRIFT REPORT

Instrument ID: 721.i
 Lab File ID: D0705CCC.D
 Analysis Type: NONE

Injection Date: 05-JUL-2000 12:51
 Lab Sample ID: sstd50
 Method File: \\QPITPA02\D\chem\721.i\d070500.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
27 2,4,5-Trichlorophenol	50.0000	46.6662	6.7	50.0
182 2-Fluorobiphenyl	50.0000	50.2389	0.5	50.0
28 2-Chloronaphthalene	50.0000	49.4059	1.2	50.0
29 2-Nitroaniline	50.0000	47.2040	5.6	50.0
30 Dimethylphthalate	50.0000	48.4400	3.1	50.0
31 Acenaphthylene	50.0000	49.2511	1.5	50.0
32 2,6-Dinitrotoluene	50.0000	46.4011	7.2	50.0
33 3-Nitroaniline	50.0000	47.1211	5.8	50.0
52 Acenaphthene-d10	40.0000	40.0000	0.0	50.0
34 Acenaphthene	50.0000	49.6230	0.8	20.0
35 2,4-Dinitrophenol	50.0000	37.7014	24.6	50.0
36 4-Nitrophenol	50.0000	44.1637	11.7	50.0
37 Dibenzofuran	50.0000	48.4611	3.1	50.0
38 2,4-Dinitrotoluene	50.0000	46.9383	6.1	50.0
77 2,3,5,6-Tetrachlorophenol	50.0000	50.0097	0.0	50.0
114 2-Naphthylamine	50.0000	49.3811	1.2	50.0
76 2,3,4,6-Tetrachlorophenol	50.0000	47.8469	4.3	50.0
39 Diethylphthalate	50.0000	46.4017	7.2	50.0
41 Fluorene	50.0000	46.1877	7.6	50.0
40 4-Chlorophenyl-phenylether	50.0000	45.3199	9.4	50.0
42 4-Nitroaniline	50.0000	45.0613	9.9	50.0
43 4,6-Dinitro-2-methylphenol	50.0000	44.1409	11.7	50.0
44 N-Nitrosodiphenylamine (1)	50.0000	49.1805	1.6	20.0
78 1,2-Diphenylhydrazine	50.0000	51.3948	2.8	50.0
186 2,4,6-Tribromophenol	50.0000	53.6992	7.4	50.0
45 4-Bromophenyl-phenylether	50.0000	53.7411	7.5	50.0
46 Hexachlorobenzene	50.0000	53.8504	7.7	50.0
47 Pentachlorophenol	50.0000	46.8853	6.2	20.0
78 Phenanthrene-d10	40.0000	40.0000	0.0	50.0
48 Phenanthrene	50.0000	48.1549	3.7	50.0
49 Anthracene	50.0000	48.6780	2.6	50.0
50 Carbazole	50.0000	49.4640	1.1	50.0
51 Di-n-Butylphthalate	50.0000	50.5846	1.2	50.0
52 Fluoranthene	50.0000	47.4950	5.0	20.0
79 Benzidine	50.0000	41.8256	16.3	50.0
53 Pyrene	50.0000	48.3704	3.3	50.0
183 Terphenyl-d14	50.0000	51.0224	2.0	50.0
54 Butylbenzylphthalate	50.0000	47.5084	5.0	50.0
56 Benzo(a)Anthracene	50.0000	49.1937	1.6	50.0

Data File: \\QPITPA02\D\chem\721.i\d070500.b/D0705CCC.D
Report Date: 07/05/2000

663 255

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

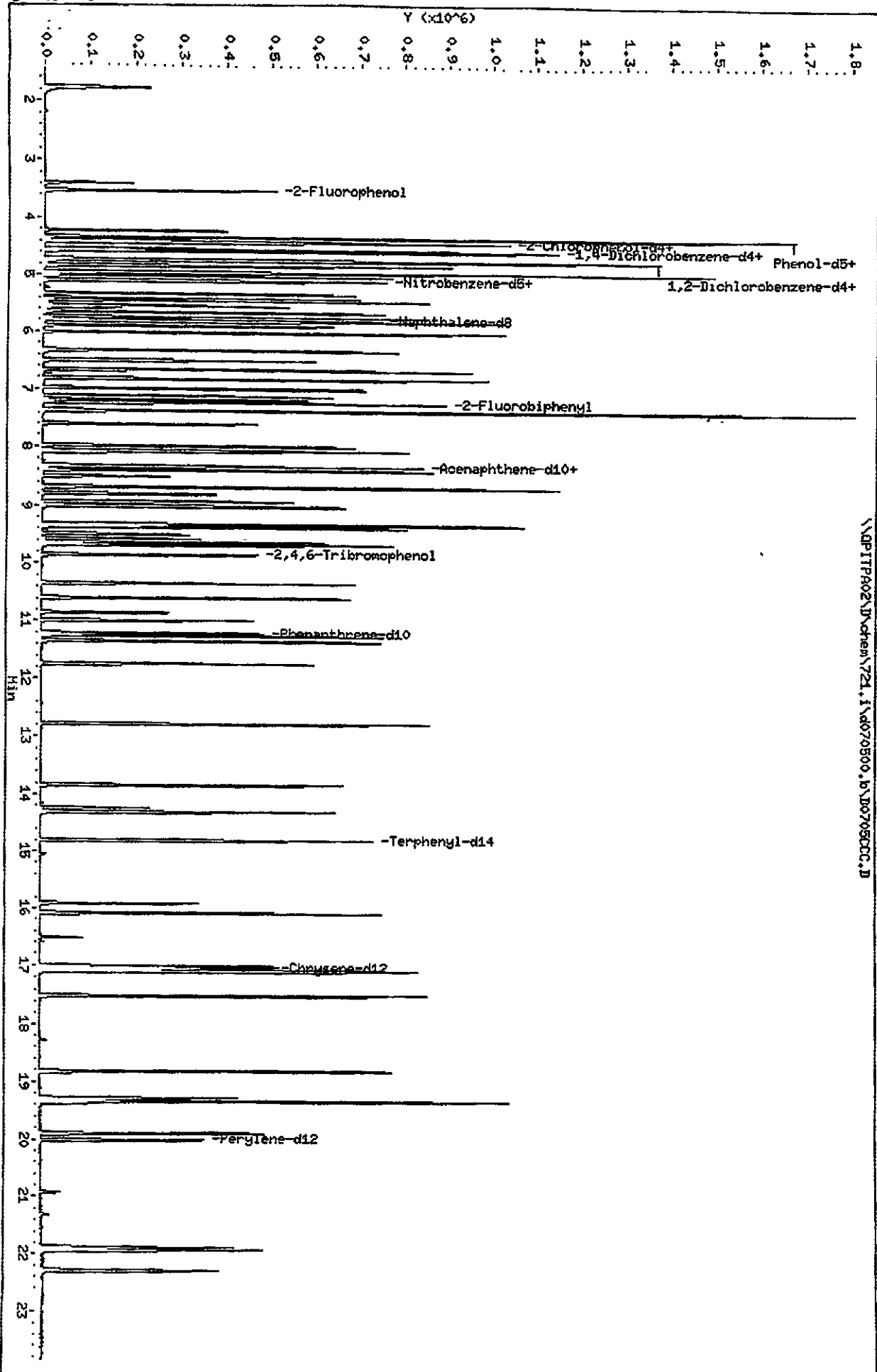
Instrument ID: 721.i
Lab File ID: D0705CCC.D
Analysis Type: NONE

Injection Date: 05-JUL-2000 12:51
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\721.i\d070500.b

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
90 Chrysene-d12	40.0000	40.0000	0.0	50.0
55 3,3'-Dichlorobenzidine	50.0000	49.4777	1.0	50.0
57 Chrysene	50.0000	48.6796	2.6	50.0
58 bis(2-ethylhexyl)Phthalate	50.0000	45.8062	8.4	50.0
59 Di-n-octylphthalate	50.0000	44.4922	11.0	20.0
60 Benzo(b)fluoranthene	50.0000	42.5853	14.8	50.0
61 Benzo(k)fluoranthene	50.0000	52.0105	4.0	50.0
143 7,12-dimethylbenz(a)anthracen	50.0000	46.5256	6.9	50.0
62 Benzo(a)pyrene	50.0000	48.7611	2.5	20.0
101 Perylene-d12	40.0000	40.0000	0.0	50.0
63 Indeno(1,2,3-cd)pyrene	50.0000	45.3475	9.3	50.0
64 Dibenz(a,h)anthracene	50.0000	44.9034	10.2	50.0
65 Benzo(g,h,i)perylene	50.0000	48.7221	2.6	50.0

Data File: \\QIPITP802\N\chem\721.1\6070800.b\0705CCC.D
 Date : 05-JUL-2000 12:51
 Client ID: SST0050
 Sample Info: sst0050 (25UC/ML) 194-179-7 8270/olp/625
 Column phase: Hp5-MS

Instrument: 721.i
 Operator: 001562, DLF
 Column diameter: 0.25



Data File: \\QPITPA02\D\chem\721.i\d070500.b\D0705CCC.D
Report Date: 05-Jul-2000 13:40

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d070500.b\D0705CCC.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 05-JUL-2000 12:51
Operator : 001562, DLF Inst ID: 721.i
Smp Info : sstd050 (25UG/ML) 194-179-7 8270/clp/625
Misc Info : sstd50,d070500.b,8270c.m,3-root.sub,2
Comment :
Method : \\QPITPA02\D\chem\721.i\d070500.b\8270c.m
Meth Date : 05-Jul-2000 13:39 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 14:34 Cal File: D0626CC1.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

PLH
7-500

Compound Sublist: 3-root.sub

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.576	4.576	(1.000)	107308	40.0000	
* 2 Naphthalene-d8	136	5.792	5.792	(1.000)	367360	40.0000	
* 3 Acenaphthene-d10	164	8.345	8.345	(1.000)	195034	40.0000	
* 4 Phenanthrene-d10	188	11.221	11.221	(1.000)	340000	40.0000	
* 5 Chrysene-d12	240	17.053	17.053	(1.000)	321544	40.0000	
* 6 Perylene-d12	264	20.023	20.023	(1.000)	249198	40.0000	
10 N-Nitrosodimethylamine	74	1.774	1.774	(0.388)	57855	50.0000	44.786
9 Pyridine	79	1.754	1.754	(0.383)	95437	50.0000	45.300 (M)
16 Methyl methanesulfonate	80	3.400	3.400	(0.743)	91300	50.0000	37.229
21 Aniline	93	4.341	4.341	(0.949)	191491	50.0000	44.120
22 Phenol	94	4.347	4.347	(0.950)	184548	50.0000	45.924
23 bis(2-Chloroethyl) ether	93	4.394	4.394	(0.960)	129389	50.0000	45.670
24 2-Chlorophenol	128	4.435	4.435	(0.969)	180023	50.0000	45.239
26 1,3-Dichlorobenzene	146	4.542	4.542	(0.993)	204805	50.0000	50.062
27 1,4-Dichlorobenzene	146	4.589	4.589	(1.003)	213348	50.0000	48.554
28 1,2-Dichlorobenzene	146	4.750	4.750	(1.038)	198721	50.0000	46.860
29 Benzyl Alcohol	108	4.717	4.717	(1.031)	91933	50.0000	43.454
30 2-Methylphenol	108	4.831	4.831	(1.056)	120513	50.0000	44.575
31 2,2'-oxybis(1-Chloropropane)	45	4.844	4.844	(1.059)	160671	50.0000	47.309
32 N-Nitroso-di-n-propylamine	70	4.979	4.979	(1.088)	106822	50.0000	43.894
192 4-Methylphenol	108	4.959	4.959	(1.084)	131704	50.0000	41.877
34 Hexachloroethane	117	5.019	5.019	(1.097)	89934	50.0000	45.452
35 Nitrobenzene	77	5.107	5.107	(0.882)	193688	50.0000	48.417
41 Isophorone	82	5.328	5.328	(0.920)	282002	50.0000	47.018
42 2-Nitrophenol	139	5.409	5.409	(0.934)	100931	50.0000	48.364
43 2,4-Dimethylphenol	107	5.449	5.449	(0.941)	160447	50.0000	45.345

Data File: \\QPITPA02\D\chem\721.i\d070500.b\D0705CCC.D
Report Date: 05-Jul-2000 13:40

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Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)	(NG)
*****	****	**	*****	*****	*****	*****	*****
44 bis(2-Chloroethoxy)methane	93	5.550	5.550	(0.958)	144225	50.0000	44.570
48 2,4-Dichlorophenol	162	5.658	5.658	(0.977)	141666	50.0000	47.290
49 Benzoic Acid	122	5.590	5.590	(0.965)	69895	50.0000	31.348 (M)
50 1,2,4-Trichlorobenzene	180	5.745	5.745	(0.992)	160288	50.0000	47.975
51 Naphthalene	128	5.812	5.812	(1.003)	461803	50.0000	45.437
52 4-Chloroaniline	127	5.893	5.893	(1.017)	182900	50.0000	44.462
56 Hexachlorobutadiene	225	6.014	6.014	(1.038)	126157	50.0000	49.409
59 4-Chloro-3-Methylphenol	107	6.504	6.504	(1.123)	126942	50.0000	42.713
62 2-Methylnaphthalene	142	6.665	6.665	(1.151)	313304	50.0000	47.142
63 1-Methylnaphthalene	142	6.820	6.820	(1.177)	295072	50.0000	48.653
64 Hexachlorocyclopentadiene	237	6.995	6.995	(0.838)	142912	50.0000	50.882
66 2,4,6-Trichlorophenol	196	7.122	7.122	(0.853)	103799	50.0000	47.594
67 2,4,5-Trichlorophenol	196	7.189	7.189	(0.862)	108790	50.0000	46.666
70 2-Chloronaphthalene	162	7.384	7.384	(0.885)	311361	50.0000	49.406
73 2-Nitroaniline	65	7.613	7.613	(0.912)	102552	50.0000	47.204
76 Dimethylphthalate	163	7.996	7.996	(0.958)	357356	50.0000	48.440
78 2,6-Dinitrotoluene	165	8.103	8.103	(0.971)	83155	50.0000	46.401
79 Acenaphthylene	152	8.076	8.076	(0.968)	451593	50.0000	49.251
81 3-Nitroaniline	138	8.332	8.332	(0.998)	85550	50.0000	47.121
82 Acenaphthene	153	8.406	8.406	(1.007)	278979	50.0000	49.623
83 2,4-Dinitrophenol	184	8.513	8.513	(1.020)	47473	50.0000	37.701
85 4-Nitrophenol	109	8.688	8.688	(1.041)	85805	50.0000	44.164
86 Dibenzofuran	168	8.695	8.695	(1.042)	406624	50.0000	48.461
87 2,4-Dinitrotoluene	165	8.809	8.809	(1.056)	110594	50.0000	46.938
91 2,3,5,6-Tetrachlorophenol	232	8.936	8.936	(1.071)	105579	50.0000	50.010
88 2,3,4,6-Tetrachlorophenol	232	9.024	9.024	(1.081)	104275	50.0000	47.847
92 2-Naphthylamine	143	8.997	8.997	(1.078)	186628	50.0000	49.381
93 Diethylphthalate	149	9.326	9.326	(1.118)	410387	50.0000	46.402
94 Fluorene	166	9.340	9.340	(1.119)	321586	50.0000	46.188
95 4-Chlorophenyl-phenylether	204	9.380	9.380	(1.124)	166180	50.0000	45.320
96 4-Nitroaniline	138	9.501	9.501	(1.138)	79907	50.0000	45.061
98 4,6-Dinitro-2-methylphenol	198	9.582	9.582	(0.854)	68628	50.0000	44.141
99 N-Nitrosodiphenylamine (1)	169	9.642	9.642	(0.859)	218920	50.0000	49.180
100 1,2-Diphenylhydrazine	77	9.689	9.689	(0.863)	401475	50.0000	51.395
106 4-Bromophenyl-phenylether	248	10.341	10.341	(0.922)	109725	50.0000	53.741
107 Hexachlorobenzene	284	10.603	10.603	(0.945)	142220	50.0000	53.850
111 Pentachlorophenol	266	10.993	10.993	(0.980)	80719	50.0000	46.885
115 Phenanthrene	178	11.268	11.268	(1.004)	430686	50.0000	48.155
116 Anthracene	178	11.362	11.362	(1.013)	442416	50.0000	48.678
119 Carbazole	167	11.759	11.759	(1.048)	382811	50.0000	49.464
120 Di-n-Butylphthalate	149	12.787	12.787	(1.140)	645111	50.0000	50.584
123 Fluoranthene	202	13.842	13.842	(1.234)	454285	50.0000	47.495
124 Benzidine	184	14.238	14.238	(0.835)	146179	50.0000	41.826
125 Pyrene	202	14.312	14.312	(0.839)	459323	50.0000	48.370
131 Butylbenzylphthalate	149	16.092	16.092	(0.944)	262491	50.0000	47.508
135 3,3'-Dichlorobenzidine	252	17.094	17.094	(1.002)	187701	50.0000	49.478
136 Benzo(a)Anthracene	228	17.020	17.020	(0.998)	424373	50.0000	49.194

663 259

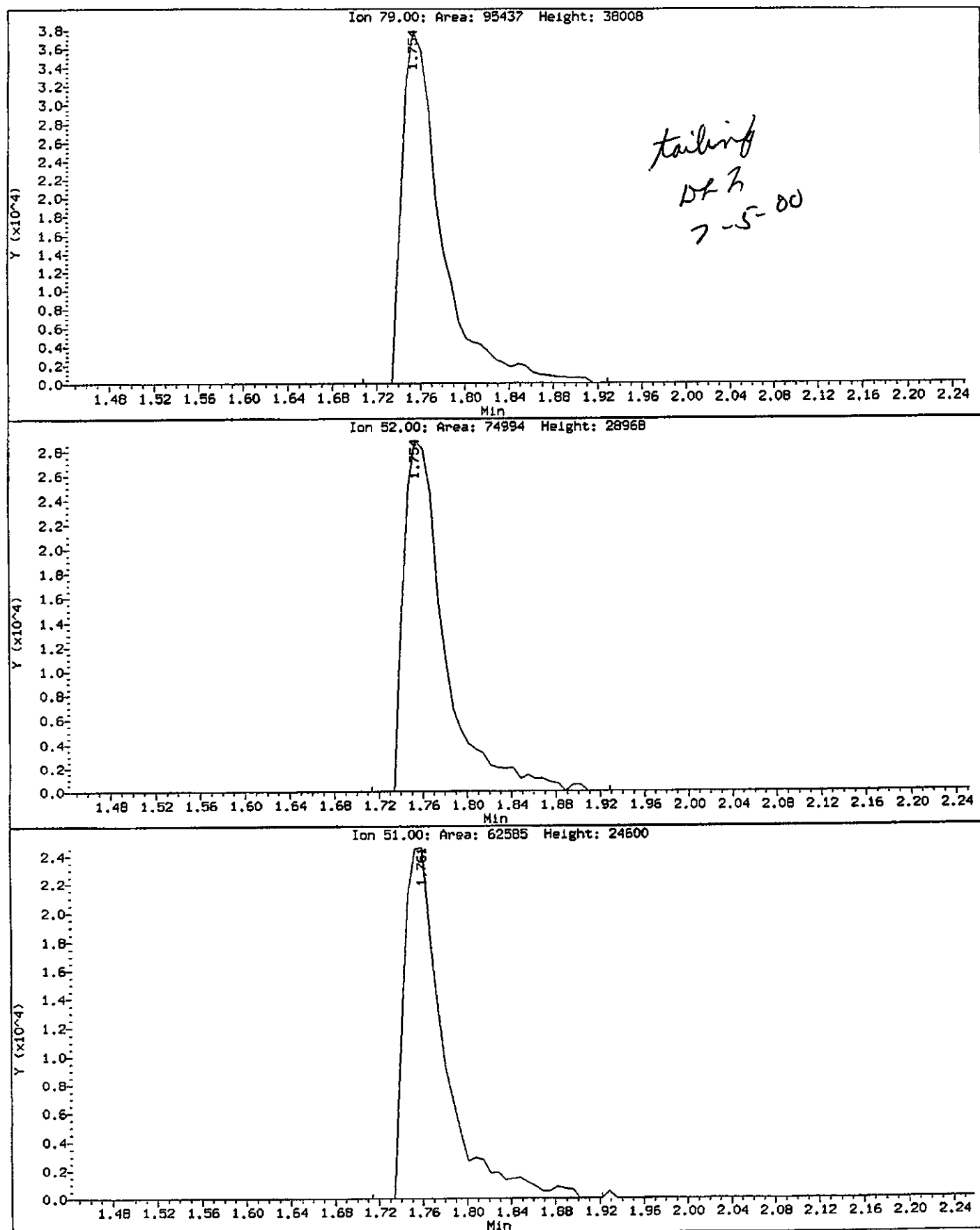
Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT (NG)	ON-COL (NG)
137 Chrysene	228		17.114	17.114	(1.004)	400658	50.0000	48.680
139 bis(2-ethylhexyl)Phthalate	149		17.517	17.517	(1.027)	359839	50.0000	45.806
140 Di-n-octylphthalate	149		18.834	18.834	(0.941)	590526	50.0000	44.492
141 Benzo(b)fluoranthene	252		19.298	19.298	(0.964)	398137	50.0000	42.585
142 Benzo(k)fluoranthene	252		19.351	19.351	(0.966)	428397	50.0000	52.010
143 7,12-dimethylbenz[a]anthracen	256		19.365	19.365	(0.967)	197236	50.0000	46.526
146 Benzo(a)pyrene	252		19.909	19.909	(0.994)	356153	50.0000	48.761
149 Indeno(1,2,3-cd)pyrene	276		21.898	21.898	(1.094)	332587	50.0000	45.348
150 Dibenz(a,h)anthracene	278		21.945	21.945	(1.096)	350218	50.0000	44.903
151 Benzo(g,h,i)perylene	276		22.308	22.308	(1.114)	333618	50.0000	48.722
\$ 154 Nitrobenzene-d5	82		5.086	5.086	(0.878)	193838	50.0000	49.839
\$ 155 2-Fluorobiphenyl	172		7.243	7.243	(0.868)	327900	50.0000	50.239
\$ 156 Terphenyl-d14	244		14.809	14.809	(0.868)	406132	50.0000	51.022
\$ 157 Phenol-d5	99		4.334	4.334	(0.947)	163478	50.0000	45.511
\$ 158 2-Fluorophenol	112		3.528	3.528	(0.771)	136246	50.0000	46.466
\$ 159 2,4,6-Tribromophenol	330		9.857	9.857	(0.878)	85166	50.0000	53.699
\$ 186 2-Chlorophenol-d4	132		4.421	4.421	(0.966)	167605	50.0000	45.514
\$ 187 1,2-Dichlorobenzene-d4	152		4.737	4.737	(1.035)	127526	50.0000	48.102

QC Flag Legend

M - Compound response manually integrated.

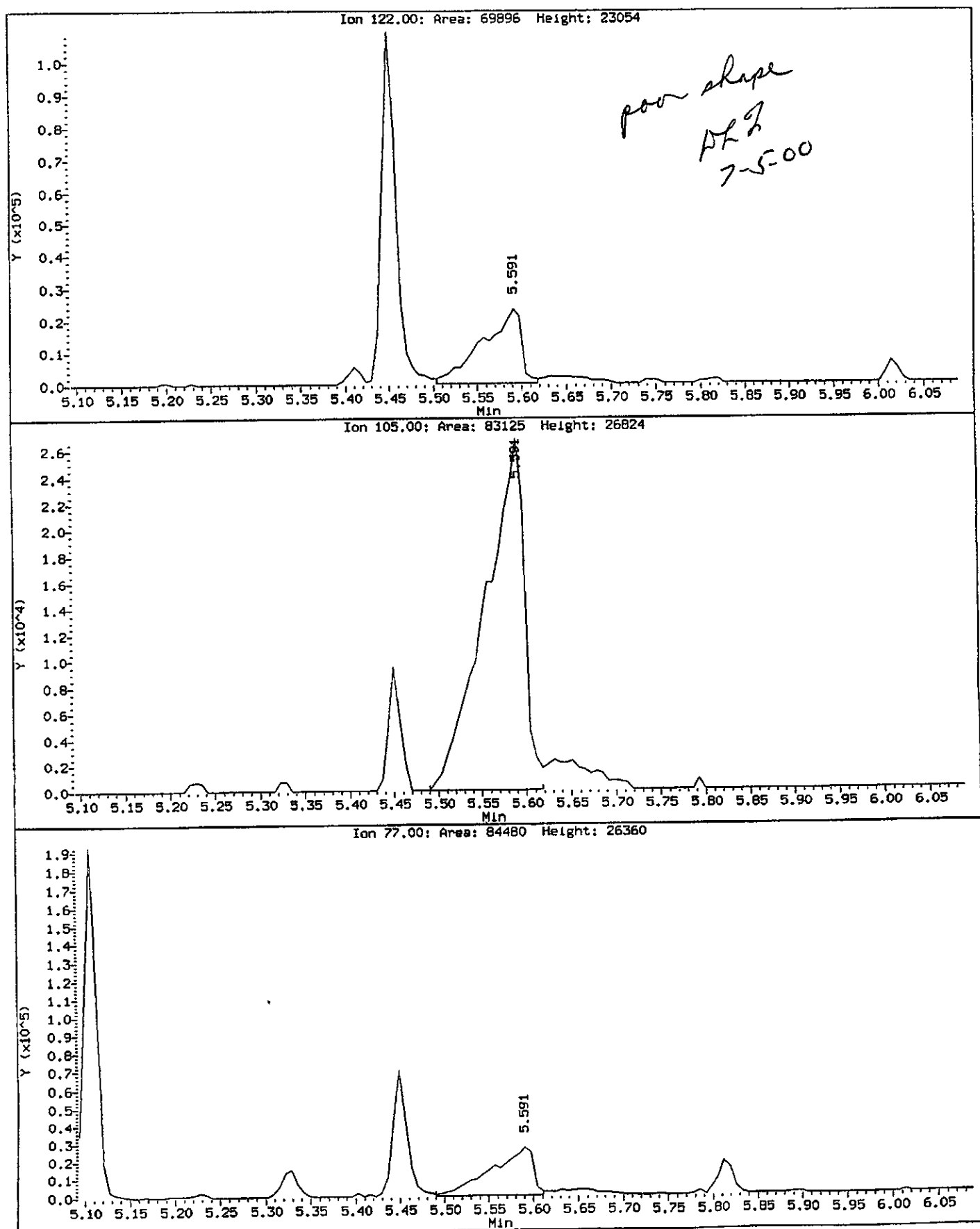
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Injection Date: 05-JUL-2000 12:51
Instrument: 721.1
Client Sample ID:

Compound: Pyridine
CAS Number: 110-86-1



Data File: \\QPITPA02\DLChem\721.1\070500.b\070500.D
Injection Date: 05-JUL-2000 12:51
Instrument: 721.1
Client Sample ID:

Compound: Benzoic Acid
CAS Number: 65-85-0



663 262

**GC/MS SEMIVOLATILE
QC DATA**

Date : 26-JUN-2000 14:13

Client ID: DFTPP02

Instrument: 721.1

Sample Info: dftpp (25ug/ml) 194-175-8

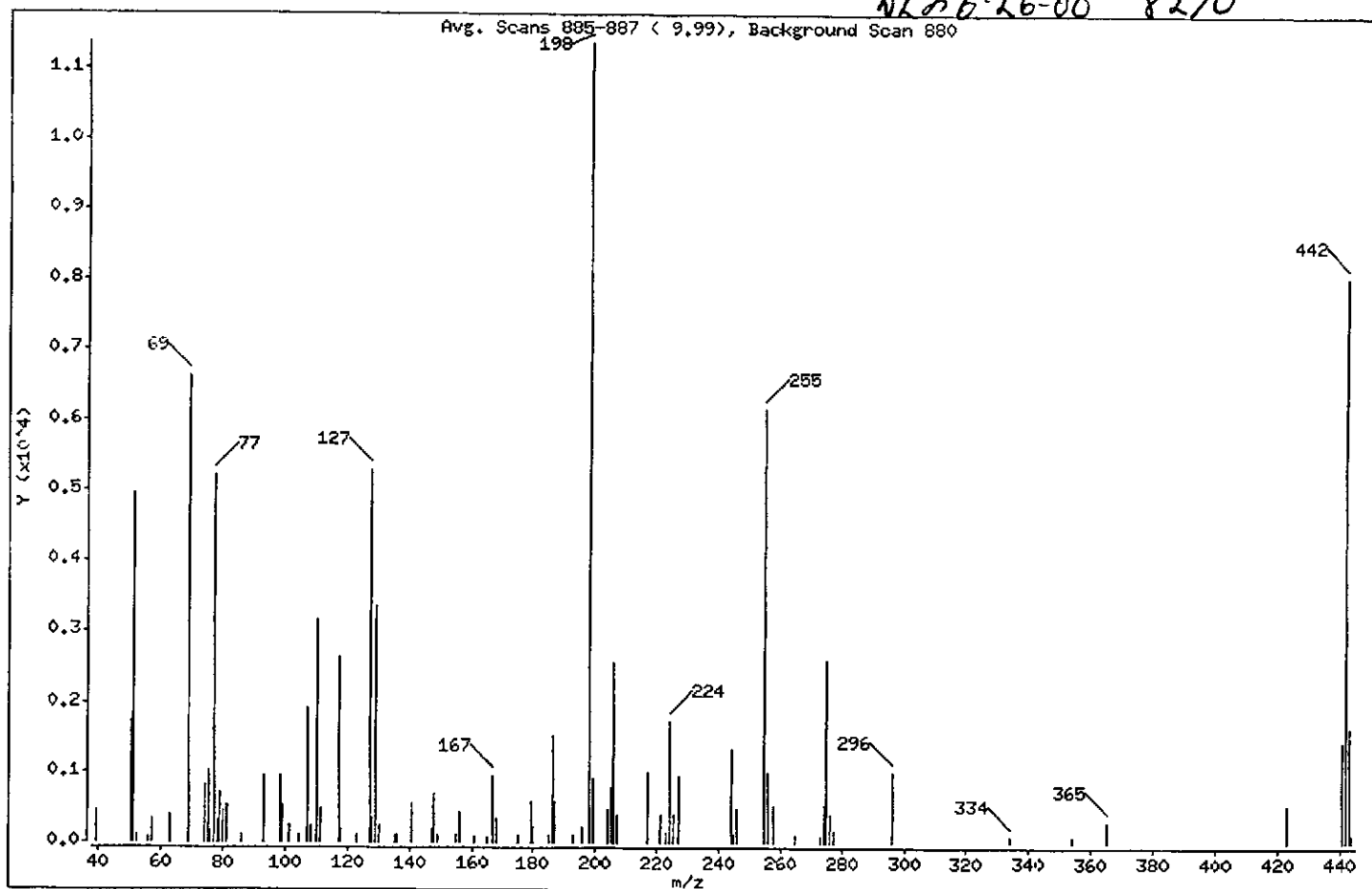
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

DL26-26-00 8270



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	43.47
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	58.12
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	46.51
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.05
275	10.00 - 30.00% of mass 198	22.74
365	Greater than 1.00% of mass 198	2.49
441	Present, but less than mass 443	12.57
442	Greater than 40.00% of mass 198	70.70
443	17.00 - 23.00% of mass 442	14.59 (20.64)

Date : 26-JUN-2000 14:13

Client ID: DFTPF02

Instrument: 721.1

Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

Data File: D0626DF3.D

Spectrum: Avg. Scans 885-887 (9.99), Background Scan 880

Location of Maximum: 198.00

Number of points: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	454	107.00	1905	168.00	333	245.00	111
50.00	1720	108.00	224	175.00	99	246.00	458
51.00	4946	110.00	3165	179.00	581	255.00	6150
52.00	109	111.00	464	180.00	208	256.00	990
56.00	87	117.00	2652	185.00	98	258.00	512
57.00	349	118.00	185	186.00	1504	265.00	109
63.00	392	123.00	112	187.00	565	273.00	90
69.00	6613	127.00	5292	193.00	102	274.00	529
74.00	800	128.00	329	196.00	201	275.00	2587
75.00	1017	129.00	3343	198.00	11378	276.00	396
76.00	164	130.00	223	199.00	916	277.00	169
77.00	5215	135.00	106	204.00	477	296.00	987
78.00	323	136.00	113	205.00	794	334.00	90
79.00	719	141.00	539	206.00	2576	354.00	86
80.00	454	147.00	174	207.00	404	365.00	283
81.00	527	148.00	678	217.00	987	423.00	534
86.00	116	149.00	107	221.00	383	441.00	1430
93.00	939	155.00	105	223.00	131	442.00	8044
98.00	952	156.00	408	224.00	1726	443.00	1660
99.00	511	161.00	90	225.00	393	444.00	94
101.00	239	165.00	83	227.00	945		
104.00	92	167.00	949	244.00	1328		

Data File: \\QPI1TP402\Inchem\721.1\4062600.b\406260F3.D
Date: 26-JUN-2000 14:13

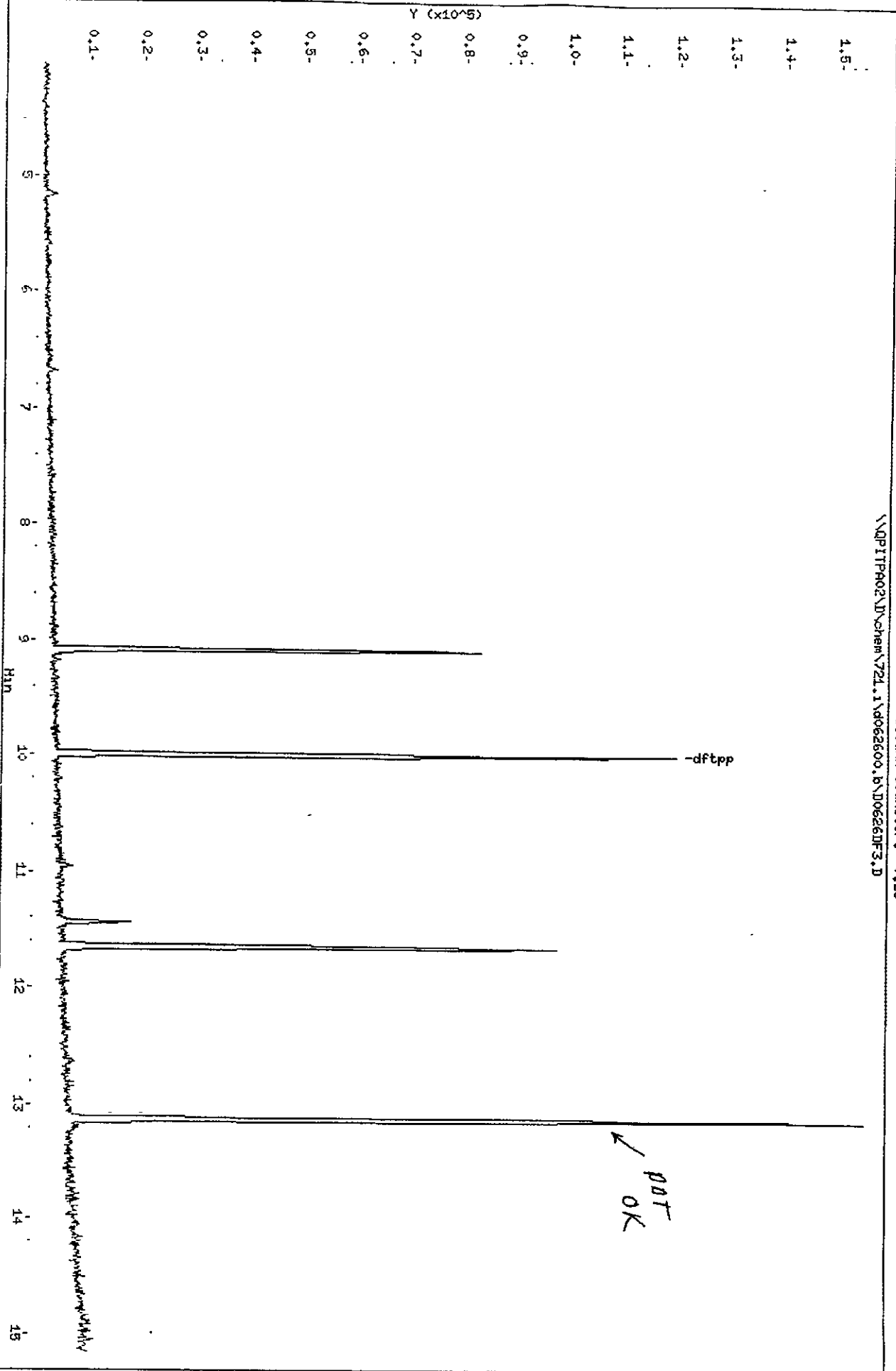
Client ID: DFTPP02

Sample Info: dftpp (25ug/ml) 194-175-8

Column phase:

\\QPI1TP402\Inchem\721.1\4062600.b\406260F3.D

Operator: 001562, ILF
Column diameter: 0.25

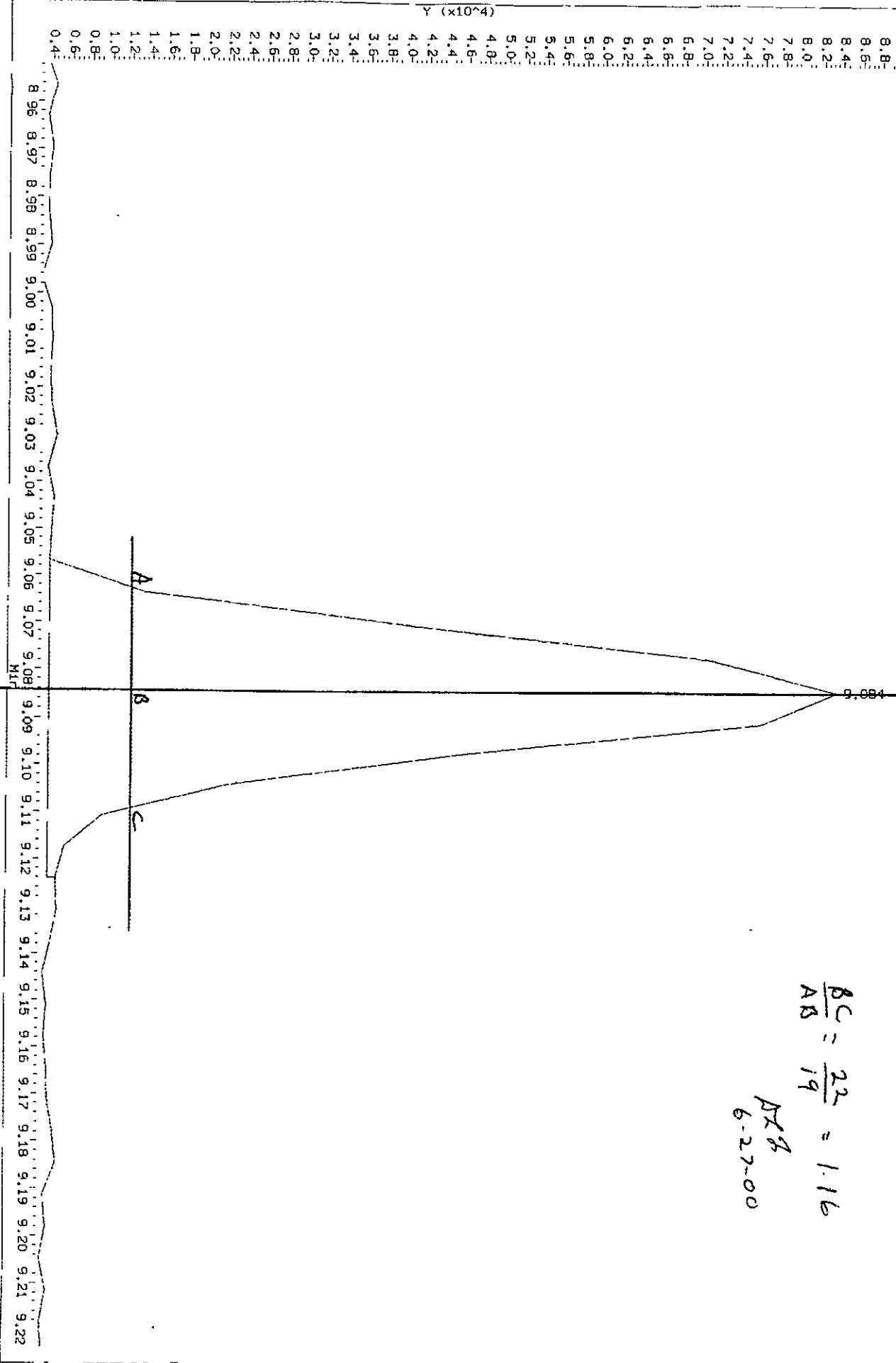


597 699

0.03 0.01

Data File: \\RPITP02\DYChem\721.L\0062600.b\00626DF3.D
 Injection Date: 26-JUN-2000 14:13
 Instrument: 721.1
 Client Sample ID: DFTFP02

HP ChemStation MS data.ms: 8.951 to 9.224 Min



992 663 266

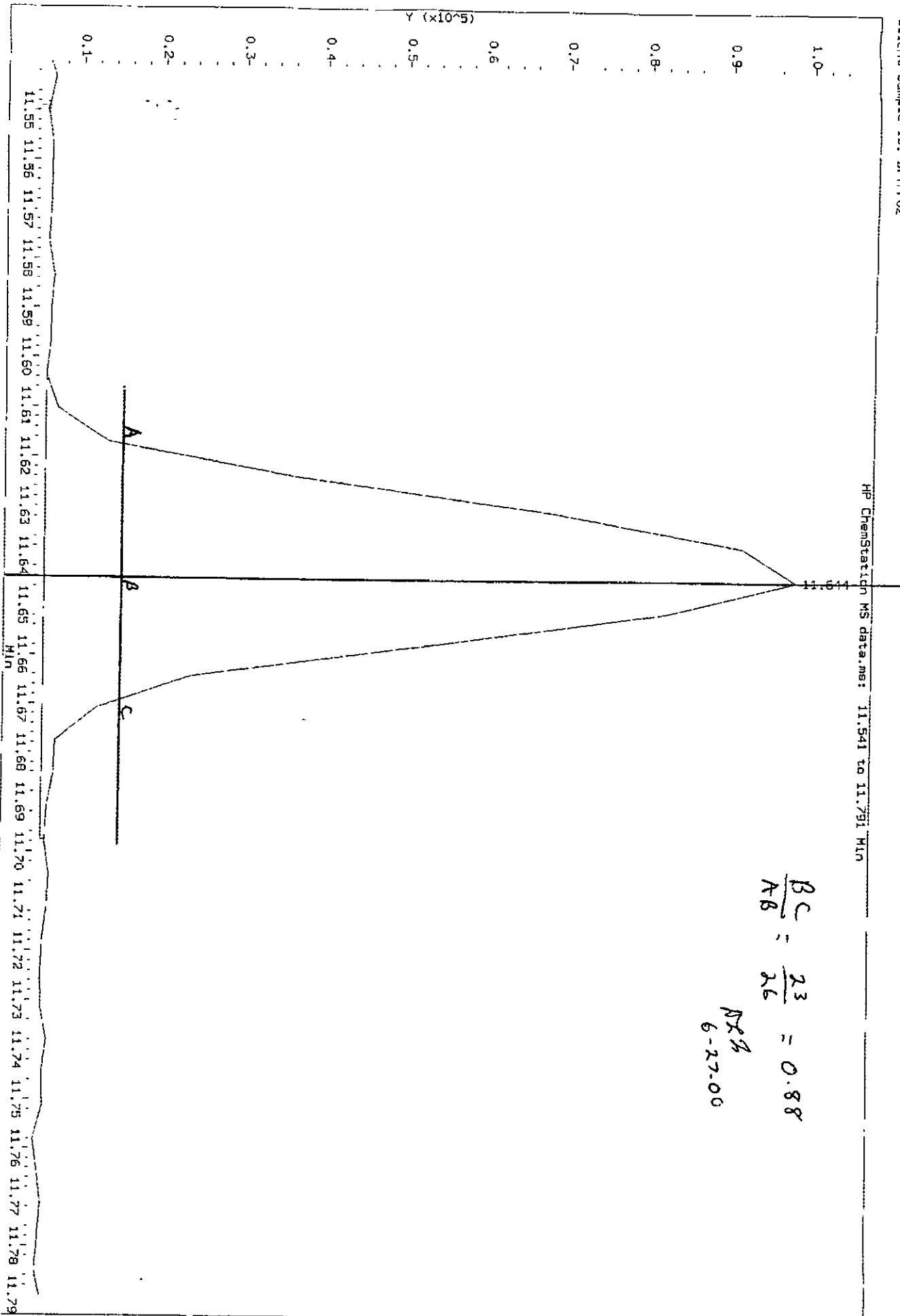
000 1001

Data File: \VPITP02\chem\721.1\4062600.b\4062600.F3.D
Injection Date: 26-JUN-2000 14:13
Instrument: 721.1
Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 11.541 to 11.791 Min

$$\frac{B_C}{A_B} = \frac{23}{26} = 0.88$$

AKA
6-27-00



663 267

Date : 03-JUL-2000 09:10

Client ID: DFTPP02

Instrument: 721.1

663 268

Sample Info: dftpp (25ug/ml) 194-175-8

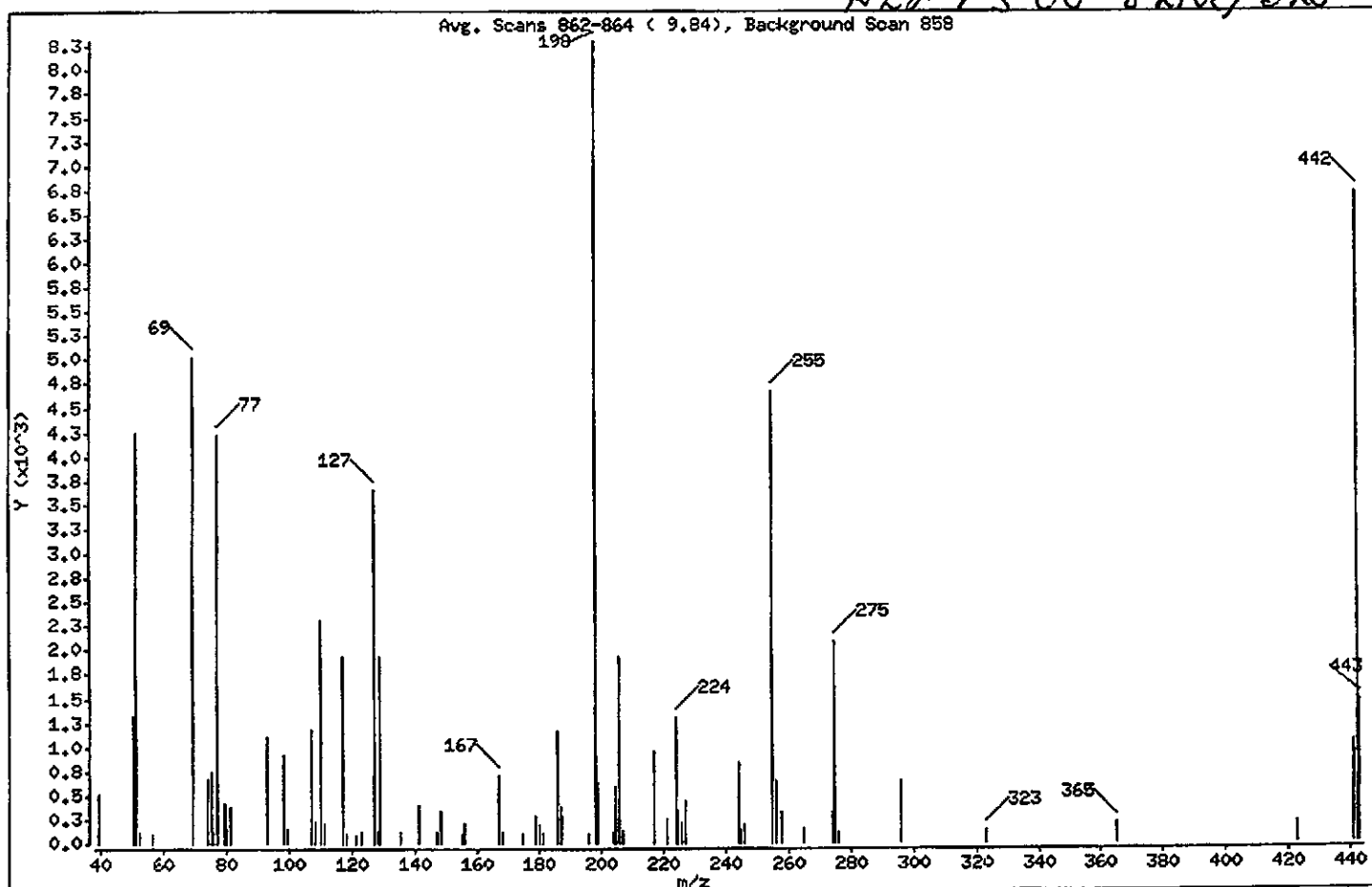
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

ALP 7-3-00 8270.625



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	51.05
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.50
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	43.99
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.60
275	10.00 - 30.00% of mass 198	25.12
365	Greater than 1.00% of mass 198	2.48
441	Present, but less than mass 443	12.59
442	Greater than 40.00% of mass 198	80.93
443	17.00 - 23.00% of mass 442	17.60 (21.74)

Date : 03-JUL-2000 09:10

Client ID: DFTPP02

Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

663 269

Data File: D0703DFT.D

Spectrum: Avg. Scans 862-864 (9.84), Background Scan 858

Location of Maximum: 198.00

Number of points: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	510	110.00	2320	179.00	291	244.00	838
50.00	1319	111.00	214	180.00	187	245.00	125
51.00	4244	117.00	1925	181.00	88	246.00	193
52.00	124	118.00	100	186.00	1168	255.00	4658
56.00	94	121.00	83	187.00	383	256.00	654
69.00	5029	123.00	122	196.00	86	258.00	334
74.00	675	127.00	3657	198.00	8313	265.00	153
75.00	746	128.00	125	199.00	632	274.00	322
76.00	117	129.00	1928	204.00	111	275.00	2088
77.00	4219	135.00	119	205.00	587	276.00	114
79.00	427	141.00	407	206.00	1938	296.00	646
80.00	161	147.00	107	207.00	143	323.00	129
81.00	390	148.00	347	217.00	950	365.00	206
93.00	1105	155.00	97	221.00	245	423.00	201
98.00	922	156.00	207	224.00	1307	441.00	1047
99.00	147	167.00	715	225.00	353	442.00	6728
107.00	1177	168.00	110	226.00	213	443.00	1463
108.00	221	175.00	97	227.00	439		

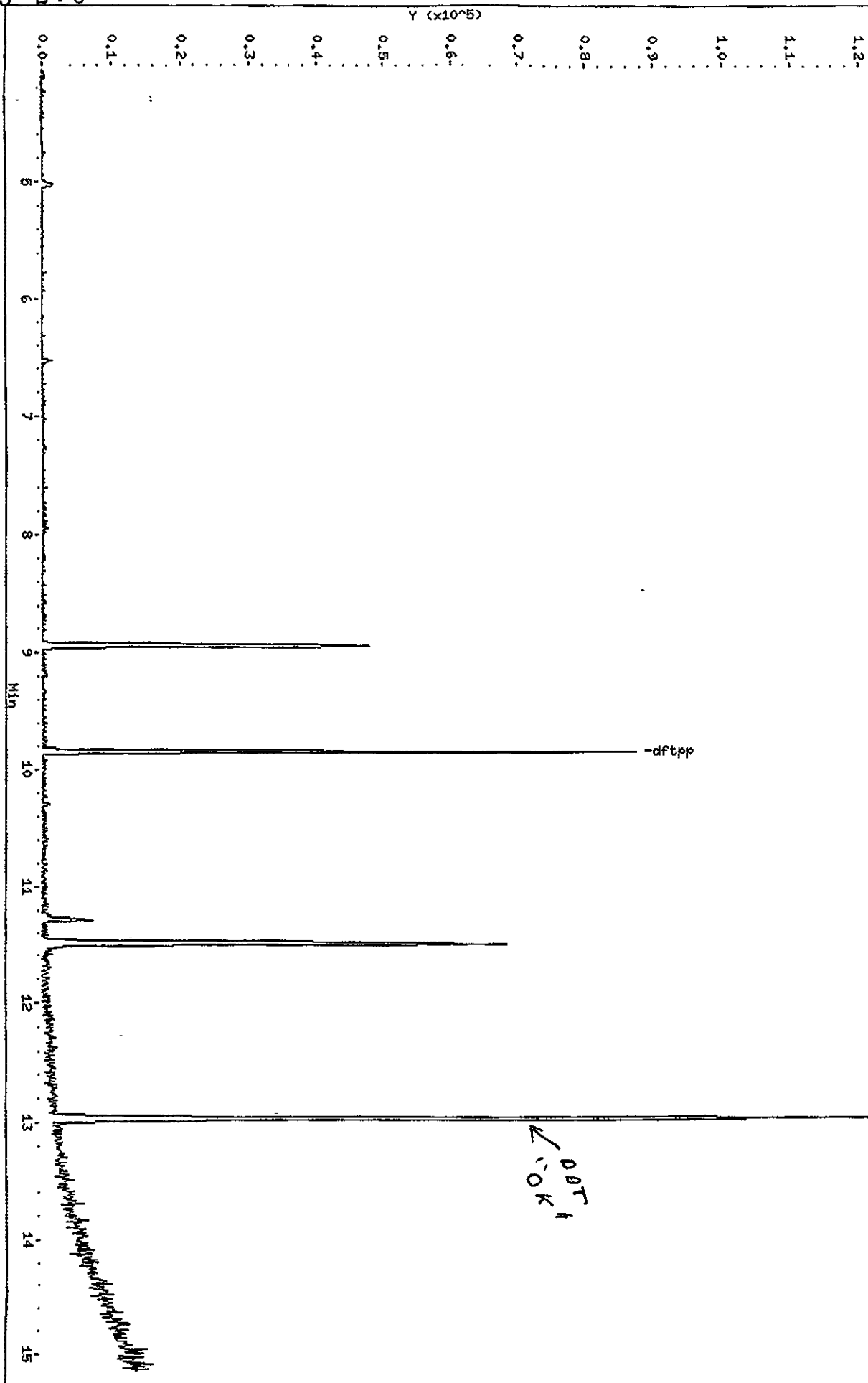
Data File: \\QPITPA02\chem\724.1\4070300.b\4070300FT.D
Date: 03-JUL-2000 09:10
Client ID: DFPP02
Sample Info: dfpp (25ug/ml) 194-175-8

Instrument: 724.1

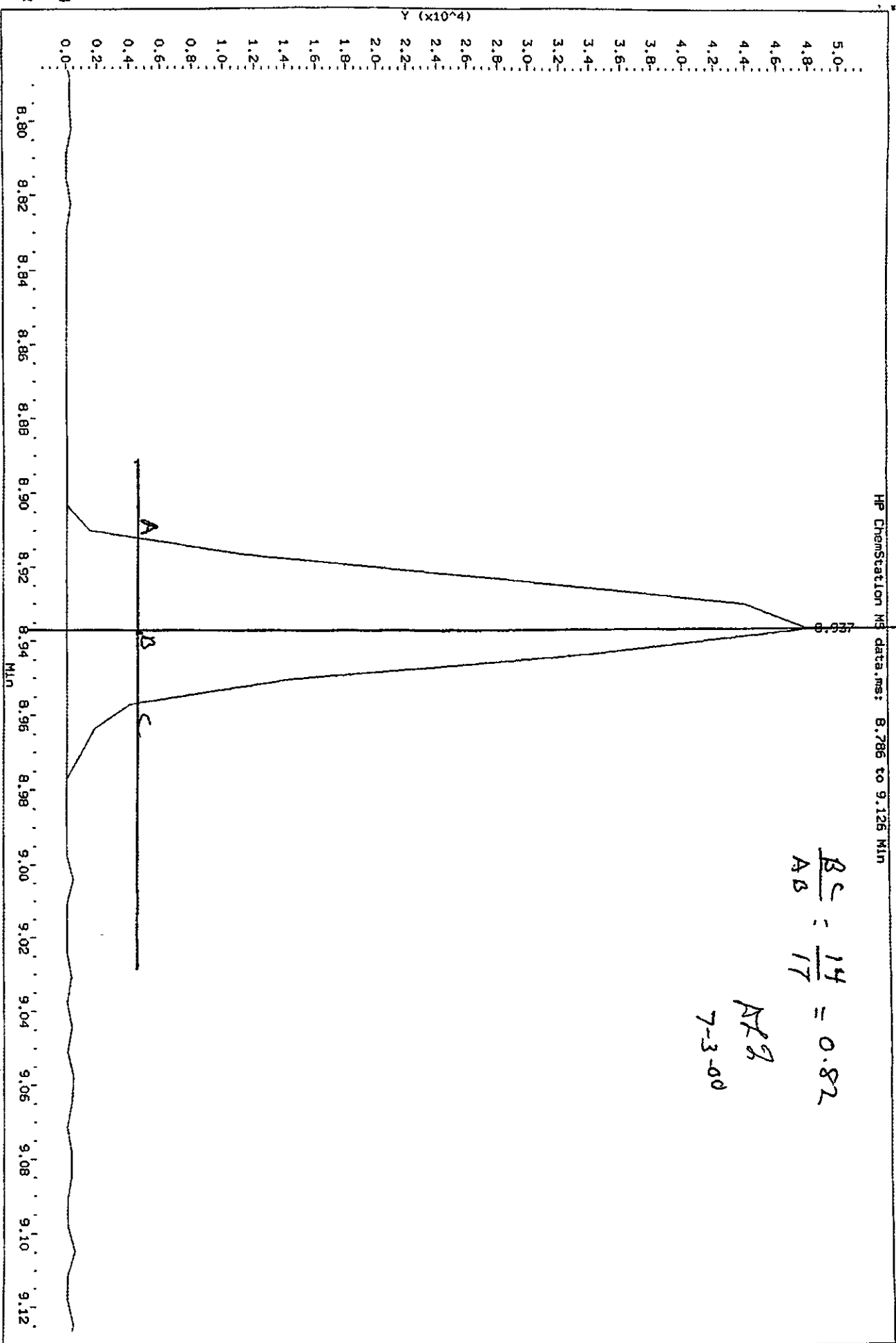
Operator: 001562, JLF
Column diameter: 0.25

Column phase:

\\QPITPA02\chem\724.1\4070300.b\4070300FT.D



Data File: \VPT1P02\N\chem\721.1\4070300.b\40703DFT.D
 Injection Date: 03-JUL-2000 09:10
 Instrument: 721.1
 Client Sample ID: DFTPP02

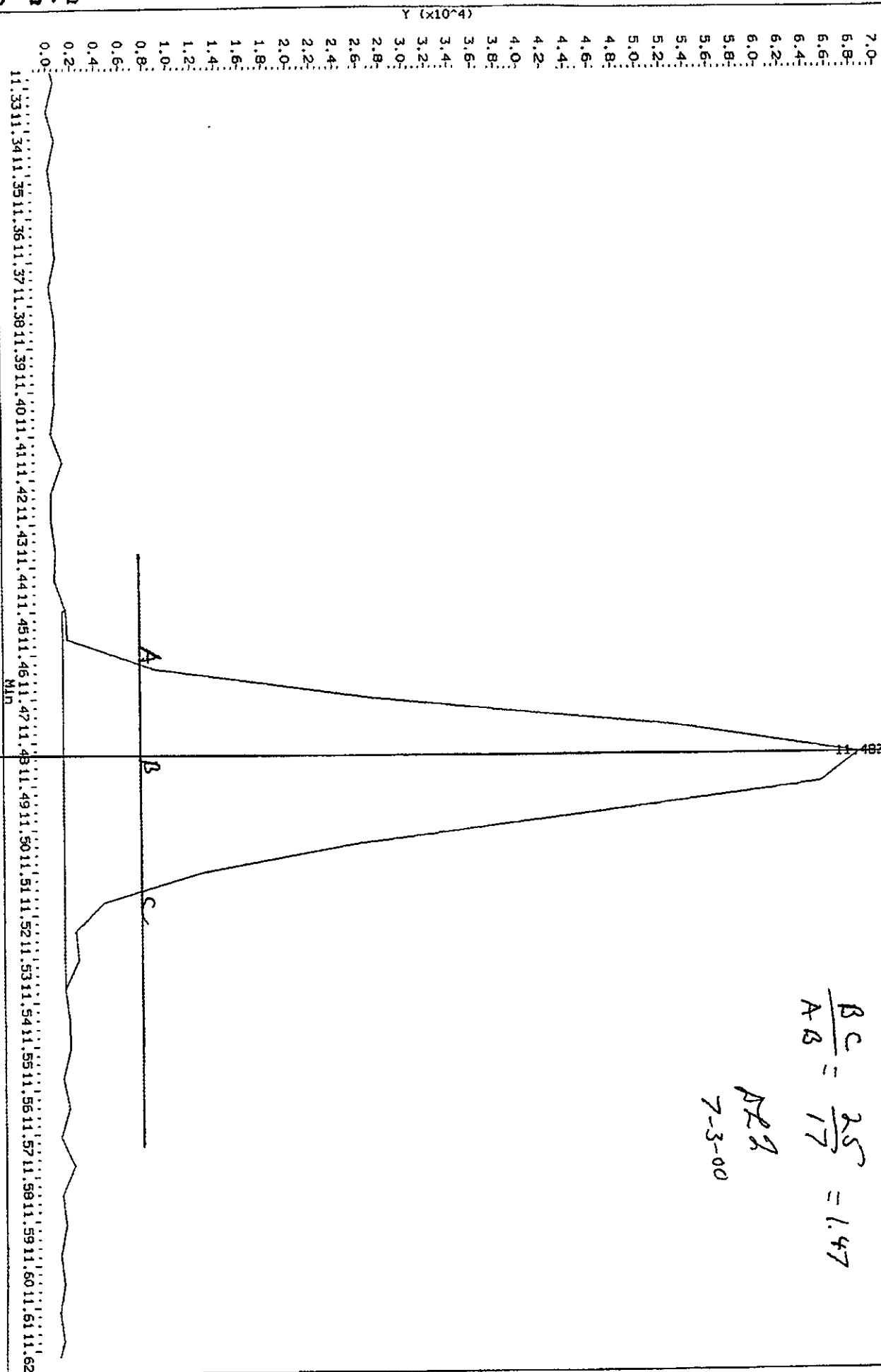


$$\frac{B}{A} = \frac{14}{17} = 0.82$$

AK2
 7-3-00

Data File: \\QPI7P02\chem\721.1\070300.b\070300.D
 Injection Date: 03-JUL-2000 09:10
 Instrument: 721.1
 Client Sample ID: DTFP02

HP ChemStation MS data.ms: 11.427 to 11.621 Min



$$\frac{B}{A+B} = \frac{25}{17} = 1.47$$

7-3-00

Data File: \\QPITPA02\chem\721.i\d070509.b\d0705DF2.D

Date : 05-JUL-2000 12:30

Client ID: DFTPP02

Instrument: 721.i

Sample Info: dftpp (25ug/ml) 194-175-8

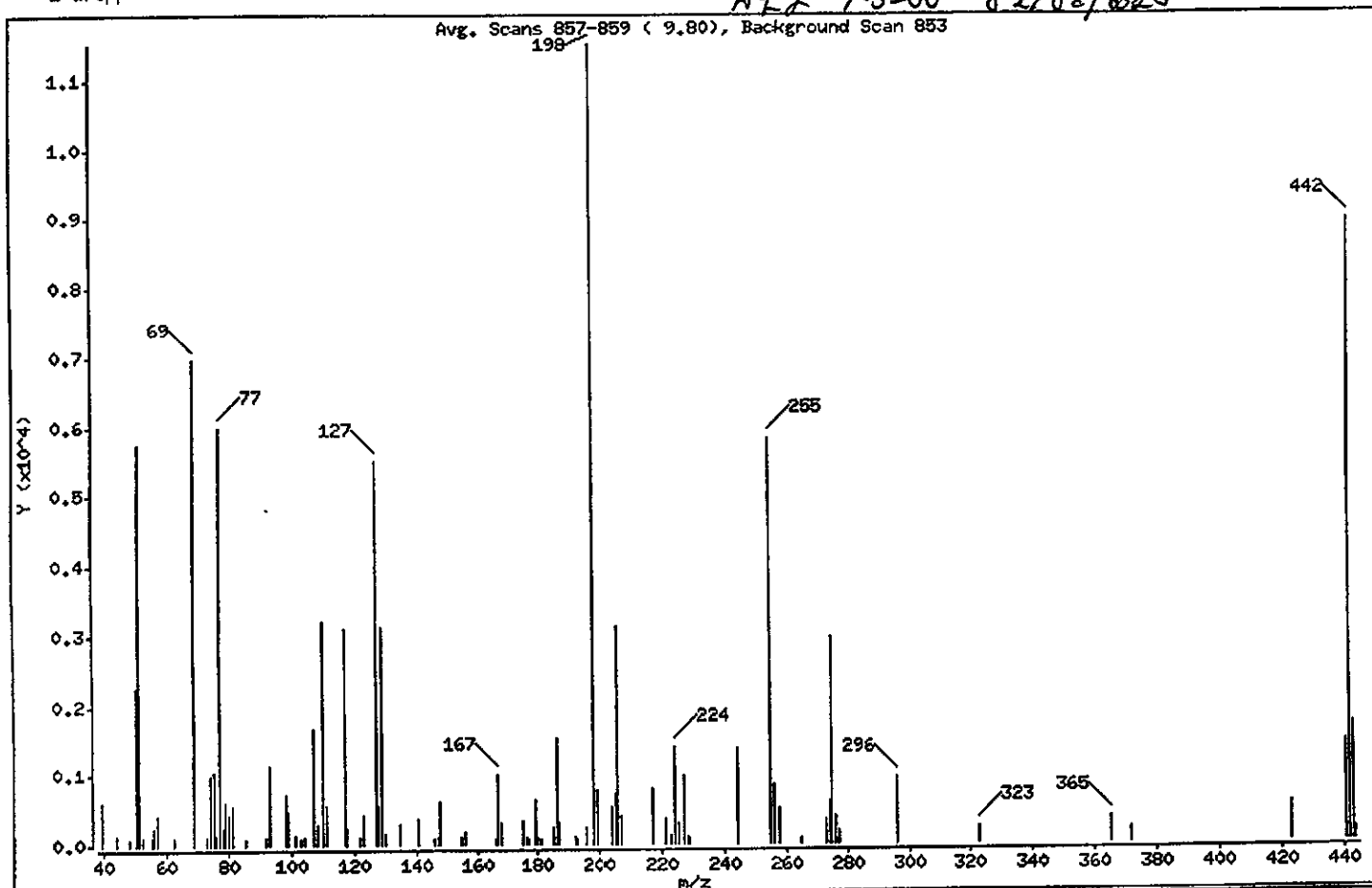
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

AL2 7-5-00 8270-1625



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
81	30.00 - 60.00% of mass 198	49.91
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.46
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.73
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.74
276	10.00 - 30.00% of mass 198	25.67
365	Greater than 1.00% of mass 198	3.28
441	Present, but less than mass 443	12.42
442	Greater than 40.00% of mass 198	77.72
443	17.00 - 23.00% of mass 442	14.78 (19.02)

Date : 05-JUL-2000 12:30

Client ID: DFTPP02

Instrument: 721.1

Sample Info: dftpp (25ug/ml) 194-175-8

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

Data File: D0705DF2.D

Spectrum: Avg. Scans 857-859 (9.80), Background Scan 853

Location of Maximum: 198.00

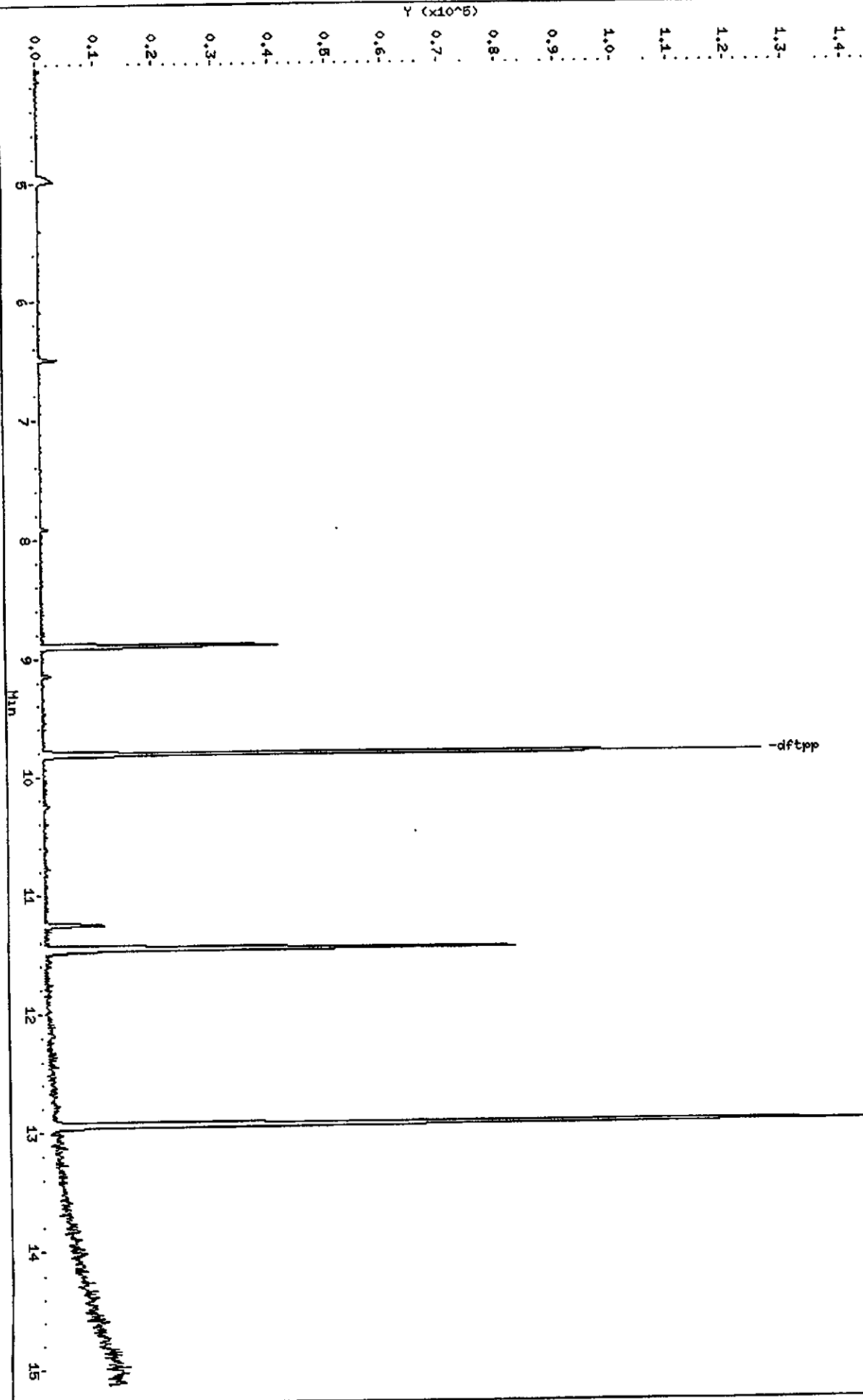
Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	620	99.00	471	167.00	1017	225.00	303
44.00	122	101.00	139	168.00	313	227.00	987
48.00	86	103.00	92	175.00	335	228.00	110
50.00	2252	104.00	108	176.00	102	229.00	90
51.00	5754	107.00	1672	177.00	89	244.00	1378
52.00	118	108.00	293	179.00	623	255.00	5831
55.00	111	110.00	3197	180.00	108	256.00	836
56.00	247	111.00	550	181.00	85	258.00	493
57.00	428	117.00	3096	185.00	242	265.00	91
62.00	103	118.00	231	186.00	1533	273.00	349
69.00	6970	122.00	94	187.00	310	274.00	604
73.00	97	123.00	417	192.00	114	276.00	2959
74.00	973	127.00	5502	193.00	92	276.00	406
75.00	1024	128.00	557	196.00	245	277.00	193
76.00	121	129.00	3137	198.00	11528	296.00	956
77.00	5985	130.00	151	199.00	777	323.00	248
78.00	237	135.00	300	204.00	540	365.00	378
79.00	614	141.00	377	205.00	708	372.00	202
80.00	418	146.00	89	206.00	3137	423.00	561
81.00	569	147.00	118	207.00	410	441.00	1432
85.00	85	148.00	617	217.00	791	442.00	8959
92.00	108	155.00	102	221.00	372	443.00	1704
93.00	1127	156.00	189	223.00	130	444.00	186
98.00	718	166.00	89	224.00	1412		

Data File: \\RPITPA02\Jchem\724.i\4070500.b.D0705DF2.D
 Date: 05-JUL-2000 12:30
 Client ID: DFTPP02
 Sample Info: dftpp (25ug/ml) 194-175-8

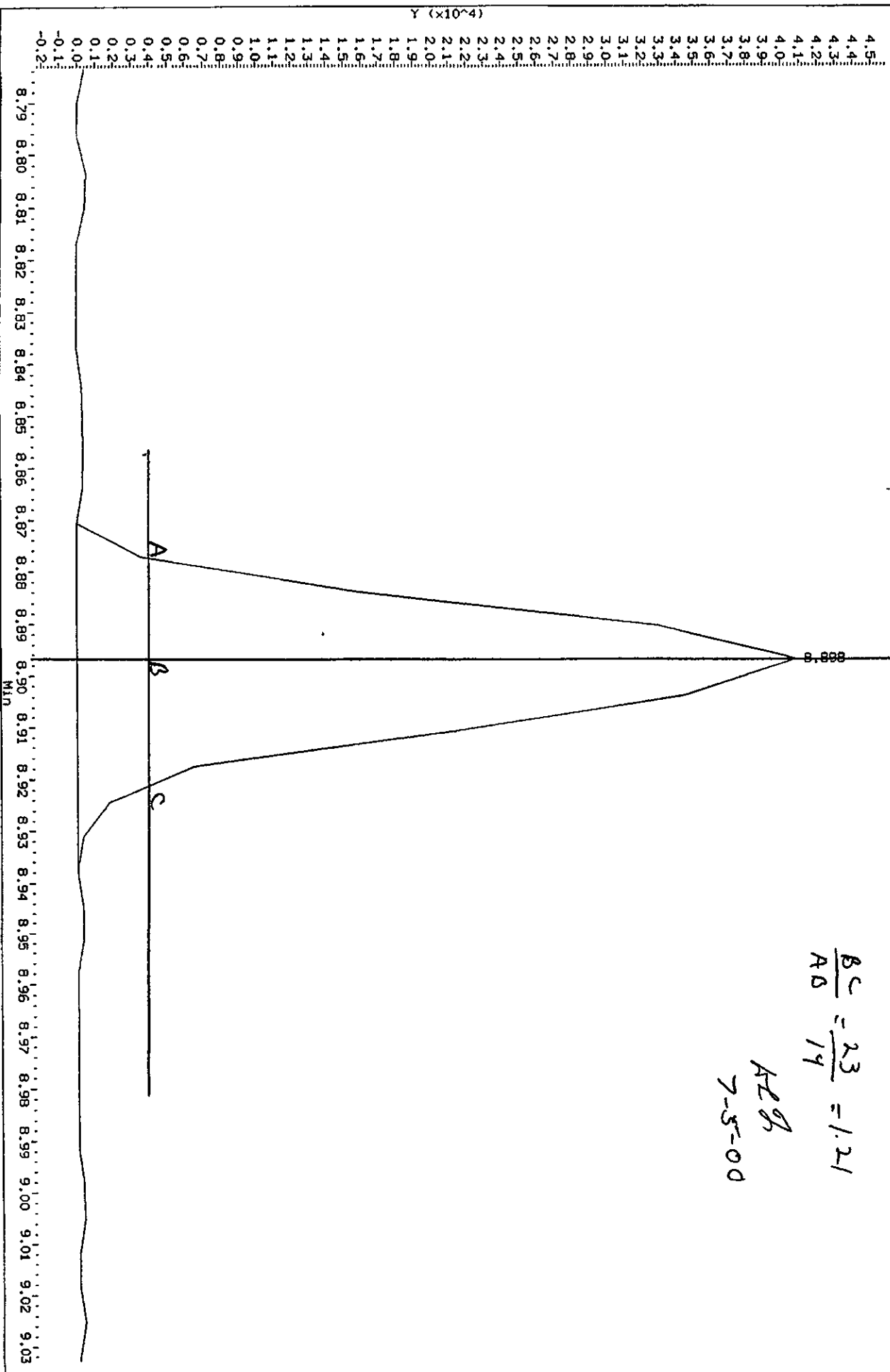
Instrument: 724.i
 Operator: 001562, MLF
 Column diameter: 0.25

\\RPITPA02\Jchem\724.i\4070500.b.D0705DF2.D



Data File: \\QPI1P002\Nchem\721.1\0070500.b\0070500.D
 Injection Date: 05-JUL-2000 12:30
 Instrument: 721.1
 Client Sample ID: DF1P02

HP ChemStation MS data.ms: 8.784 to 9.033 Min

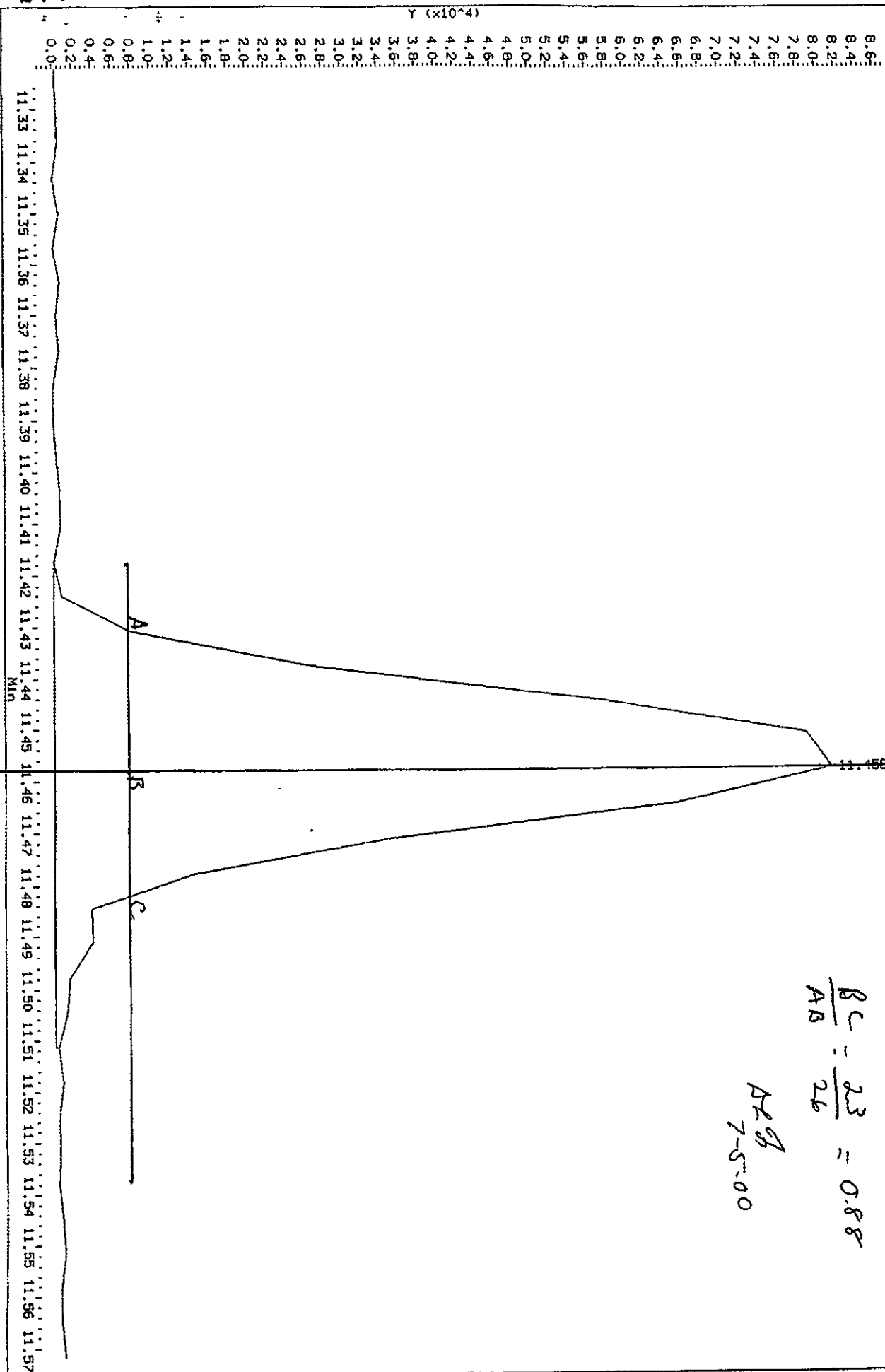


$$\frac{B_C}{A_D} = \frac{23}{14} = 1.21$$

ALB
 7-5-00

Data File: \GPIPPA02\chem\721.1\4070500.b\007050DF2.D
 Injection Date: 05-JUL-2000 12:30
 Instrument: 721.1
 Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 11.322 to 11.572 Min



$$\frac{B}{A} = \frac{23}{26} = 0.88$$

ALG
 7-5-00

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG030000 092

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN9J101

Date Extracted: 07/01/00

Dilution factor: 1

Date Analyzed: 07/05/00

QC Batch: 0185092

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
110-86-1	Pyridine	20		U
83-32-9	Acenaphthene	10		U
208-96-8	Acenaphthylene	10		U
120-12-7	Anthracene	10		U
56-55-3	Benzo(a)anthracene	10		U
50-32-8	Benzo(a)pyrene	10		U
205-99-2	Benzo(b)fluoranthene	10		U
207-08-9	Benzo(k)fluoranthene	10		U
191-24-2	Benzo(ghi)perylene	10		U
111-91-1	bis(2-Chloroethoxy)methane	10		U
111-44-4	bis(2-Chloroethyl) ether	10		U
117-81-7	bis(2-Ethylhexyl) phthalate	10		U
101-55-3	4-Bromophenyl phenyl ether	10		U
85-68-7	Butyl benzyl phthalate	10		U
86-74-8	Carbazole	10		U
106-47-8	4-Chloroaniline	10		U
59-50-7	4-Chloro-3-methylphenol	10		U
91-58-7	2-Chloronaphthalene	10		U
95-57-8	2-Chlorophenol	10		U
7005-72-3	4-Chlorophenyl phenyl ether	10		U
218-01-9	Chrysene	10		U
53-70-3	Dibenz(a,h)anthracene	10		U
132-64-9	Dibenzofuran	10		U
95-50-1	1,2-Dichlorobenzene	10		U
541-73-1	1,3-Dichlorobenzene	10		U
106-46-7	1,4-Dichlorobenzene	10		U
91-94-1	3,3'-Dichlorobenzidine	50		U
120-83-2	2,4-Dichlorophenol	10		U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

663 279

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G030000 092

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN9J101

Date Extracted: 07/01/00

Dilution factor: 1

Date Analyzed: 07/05/00

QC Batch: 0185092

Client Sample Id: INTRA-LAB BLANK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U
131-11-3	Dimethyl phthalate	10	U
84-74-2	Di-n-butyl phthalate	10	U
117-84-0	Di-n-octyl phthalate	10	U
51-28-5	2,4-Dinitrophenol	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
121-14-2	2,4-Dinitrotoluene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
206-44-0	Fluoranthene	10	U
86-73-7	Fluorene	10	U
118-74-1	Hexachlorobenzene	10	U
87-68-3	Hexachlorobutadiene	10	U
77-47-4	Hexachlorocyclopentadiene	50	U
67-72-1	Hexachloroethane	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
78-59-1	Isophorone	10	U
91-57-6	2-Methylnaphthalene	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	4-Methylphenol	10	U
91-20-3	Naphthalene	10	U
88-74-4	2-Nitroaniline	50	U
99-09-2	3-Nitroaniline	50	U
100-01-6	4-Nitroaniline	50	U
98-95-3	Nitrobenzene	10	U
88-75-5	2-Nitrophenol	10	U
100-02-7	4-Nitrophenol	50	U
621-64-7	N-Nitrosodi-n-propylamine	10	U

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G030000 092

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN9J101

Date Extracted: 07/01/00

Dilution factor: 1

Date Analyzed: 07/05/00

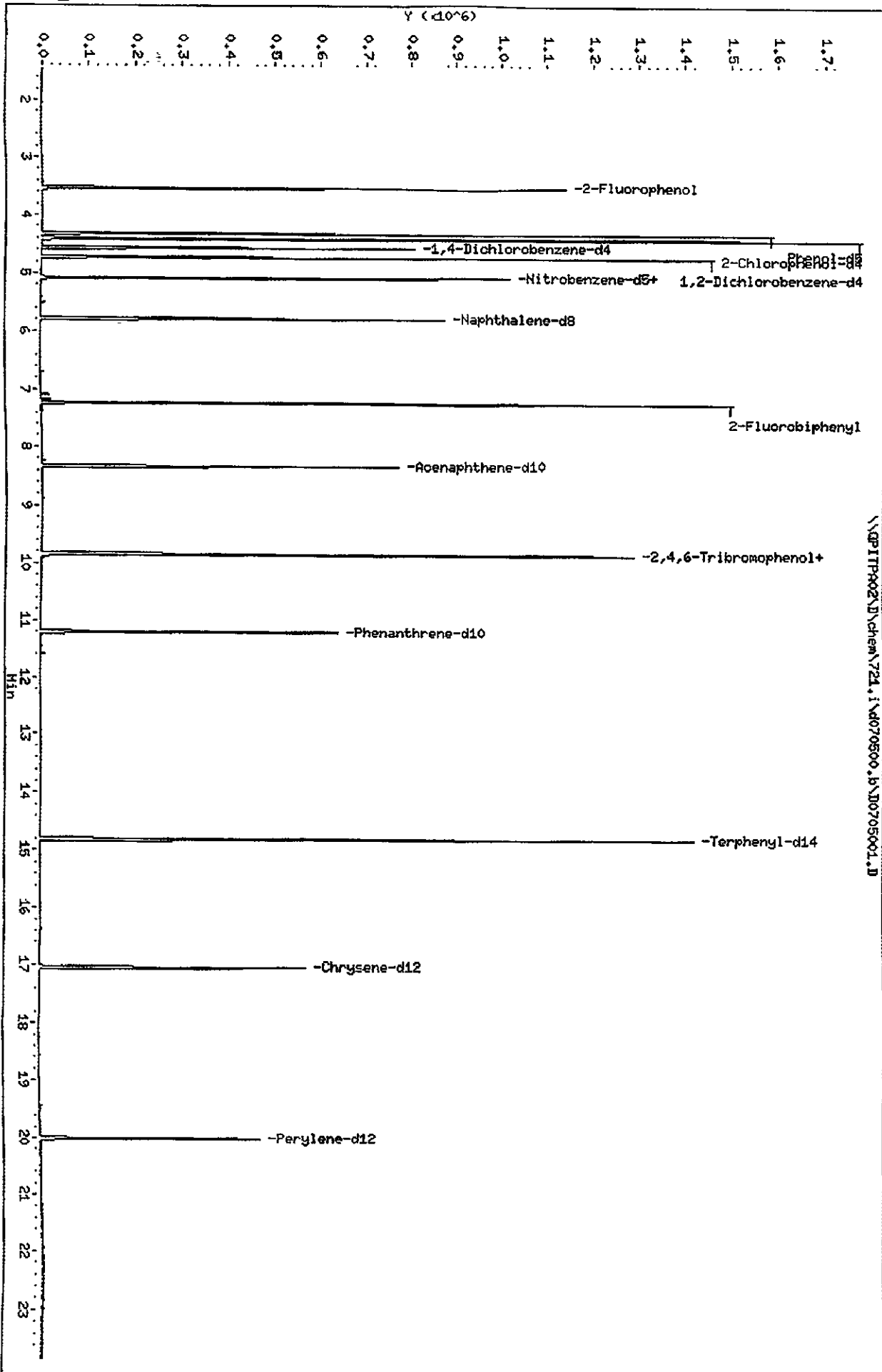
QC Batch: 0185092

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
86-30-6	N-Nitrosodiphenylamine	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
88-06-2	2,4,6-Trichlorophenol	10	U

Data File: \\QIPTR02\N\chem\721.i\4070500.b\0705001.D
 Date: 05-JUL-2000 13:24
 Client ID: INTRA-LAB BLANK
 Sample Info: 00500129-blk h2o 7/1/00 82700
 Volume Injected (ul): 2.0
 Column phase: HP5-MS

Instrument: 721.1
 Operator: 001562, DLF
 Column diameter: 0.25



663 282

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d070500.b\D0705001.D
Lab Smp Id: DFN9J101 Client Smp ID: INTRA-LAB BLANK
Inj Date : 05-JUL-2000 13:21
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0f300129-sblk h2o 7/1/00 8270c
Misc Info : dfn9j101,d070500.b,8270c.m,3-root.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d070500.b\8270c.m
Meth Date : 05-Jul-2000 13:39 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 14:34 Cal File: D0626CC1.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-root.sub
Target Version: 4.04
Processing Host: PITPC013

PL 1
7-5-00

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.573	4.576	(1.000)	118660	40.0000	(Q)
* 2 Naphthalene-d8	136	5.789	5.792	(1.000)	432024	40.0000	
* 3 Acenaphthene-d10	164	8.342	8.345	(1.000)	232952	40.0000	
* 4 Phenanthrene-d10	188	11.218	11.221	(1.000)	424824	40.0000	
* 5 Chrysene-d12	240	17.051	17.053	(1.000)	389183	40.0000	
* 6 Perylene-d12	264	20.014	20.023	(1.000)	330076	40.0000	
10 N-Nitrosodimethylamine	74				Compound Not Detected.		
9 Pyridine	79				Compound Not Detected.		
16 Methyl methanesulfonate	80				Compound Not Detected.		
21 Aniline	93				Compound Not Detected.		
22 Phenol	94				Compound Not Detected.		
23 bis(2-Chloroethyl)ether	93				Compound Not Detected.		
24 2-Chlorophenol	128				Compound Not Detected.		
26 1,3-Dichlorobenzene	146				Compound Not Detected.		

Data File: \\QPITPA02\D\chem\721.i\d070500.b\D0705001.D
Report Date: 05-Jul-2000 15:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
27 1,4-Dichlorobenzene	146				Compound Not Detected.		
28 1,2-Dichlorobenzene	146				Compound Not Detected.		
29 Benzyl Alcohol	108				Compound Not Detected.		
30 2-Methylphenol	108				Compound Not Detected.		
31 2,2'-oxybis(1-Chloropropane)	45				Compound Not Detected.		
32 N-Nitroso-di-n-propylamine	70				Compound Not Detected.		
192 4-Methylphenol	108				Compound Not Detected.		
34 Hexachloroethane	117				Compound Not Detected.		
35 Nitrobenzene	77				Compound Not Detected.		
41 Isophorone	82				Compound Not Detected.		
42 2-Nitrophenol	139				Compound Not Detected.		
43 2,4-Dimethylphenol	107				Compound Not Detected.		
44 bis(2-Chloroethoxy)methane	93				Compound Not Detected.		
48 2,4-Dichlorophenol	162				Compound Not Detected.		
49 Benzoic Acid	122				Compound Not Detected.		
50 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
51 Naphthalene	128				Compound Not Detected.		
52 4-Chloroaniline	127				Compound Not Detected.		
56 Hexachlorobutadiene	224				Compound Not Detected.		
59 4-Chloro-3-Methylphenol	107				Compound Not Detected.		
62 2-Methylnaphthalene	142				Compound Not Detected.		
63 1-Methylnaphthalene	142				Compound Not Detected.		
64 Hexachlorocyclopentadiene	236				Compound Not Detected.		
66 2,4,6-Trichlorophenol	196				Compound Not Detected.		
67 2,4,5-Trichlorophenol	196				Compound Not Detected.		
70 2-Chloronaphthalene	162				Compound Not Detected.		
73 2-Nitroaniline	65				Compound Not Detected.		
76 Dimethylphthalate	163				Compound Not Detected.		
78 2,6-Dinitrotoluene	165				Compound Not Detected.		
79 Acenaphthylene	152				Compound Not Detected.		
81 3-Nitroaniline	138				Compound Not Detected.		
82 Acenaphthene	153				Compound Not Detected.		
83 2,4-Dinitrophenol	184				Compound Not Detected.		
85 4-Nitrophenol	109				Compound Not Detected.		
86 Dibenzofuran	168				Compound Not Detected.		
87 2,4-Dinitrotoluene	165				Compound Not Detected.		
91 2,3,5,6-Tetrachlorophenol	231				Compound Not Detected.		
88 2,3,4,6-Tetrachlorophenol	231				Compound Not Detected.		
92 2-Naphthylamine	143				Compound Not Detected.		
93 Diethylphthalate	149				Compound Not Detected.		
94 Fluorene	166				Compound Not Detected.		
95 4-Chlorophenyl-phenylether	204				Compound Not Detected.		
96 4-Nitroaniline	138				Compound Not Detected.		
98 4,6-Dinitro-2-methylphenol	198				Compound Not Detected.		
99 N-Nitrosodiphenylamine (1)	169				Compound Not Detected.		
100 1,2-Diphenylhydrazine	77				Compound Not Detected.		
106 4-Bromophenyl-phenylether	248				Compound Not Detected.		

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	265				Compound Not Detected.		
115 Phenanthrene	178				Compound Not Detected.		
116 Anthracene	178				Compound Not Detected.		
119 Carbazole	167				Compound Not Detected.		
120 Di-n-Butylphthalate	149				Compound Not Detected.		
123 Fluoranthene	202				Compound Not Detected.		
124 Benzidine	184				Compound Not Detected.		
125 Pyrene	202				Compound Not Detected.		
131 Butylbenzylphthalate	149				Compound Not Detected.		
135 3,3'-Dichlorobenzidine	252				Compound Not Detected.		
136 Benzo(a)Anthracene	228				Compound Not Detected.		
137 Chrysene	228				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
143 7,12-dimethylbenz[a]anthracene	256				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.084	5.086	(0.878)	305680	66.8319	33.416
\$ 155 2-Fluorobiphenyl	172	7.240	7.243	(0.868)	549407	70.4753	35.238
\$ 156 Terphenyl-d14	244	14.820	14.809	(0.869)	817429	84.8457	42.423
\$ 157 Phenol-d5	99	4.331	4.334	(0.947)	381321	96.0002	48.000
\$ 158 2-Fluorophenol	112	3.525	3.528	(0.771)	289887	89.4057	44.703
\$ 159 2,4,6-Tribromophenol	330	9.854	9.857	(0.878)	241027	121.629	60.814
\$ 186 2-Chlorophenol-d4	132	4.418	4.421	(0.966)	429180	105.396	52.698
\$ 187 1,2-Dichlorobenzene-d4	152	4.734	4.737	(1.035)	187777	64.0521	32.026

QC Flag Legend

Q - Qualifier signal failed the ratio test.

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G030000 092

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN9J102

Date Extracted: 07/01/00

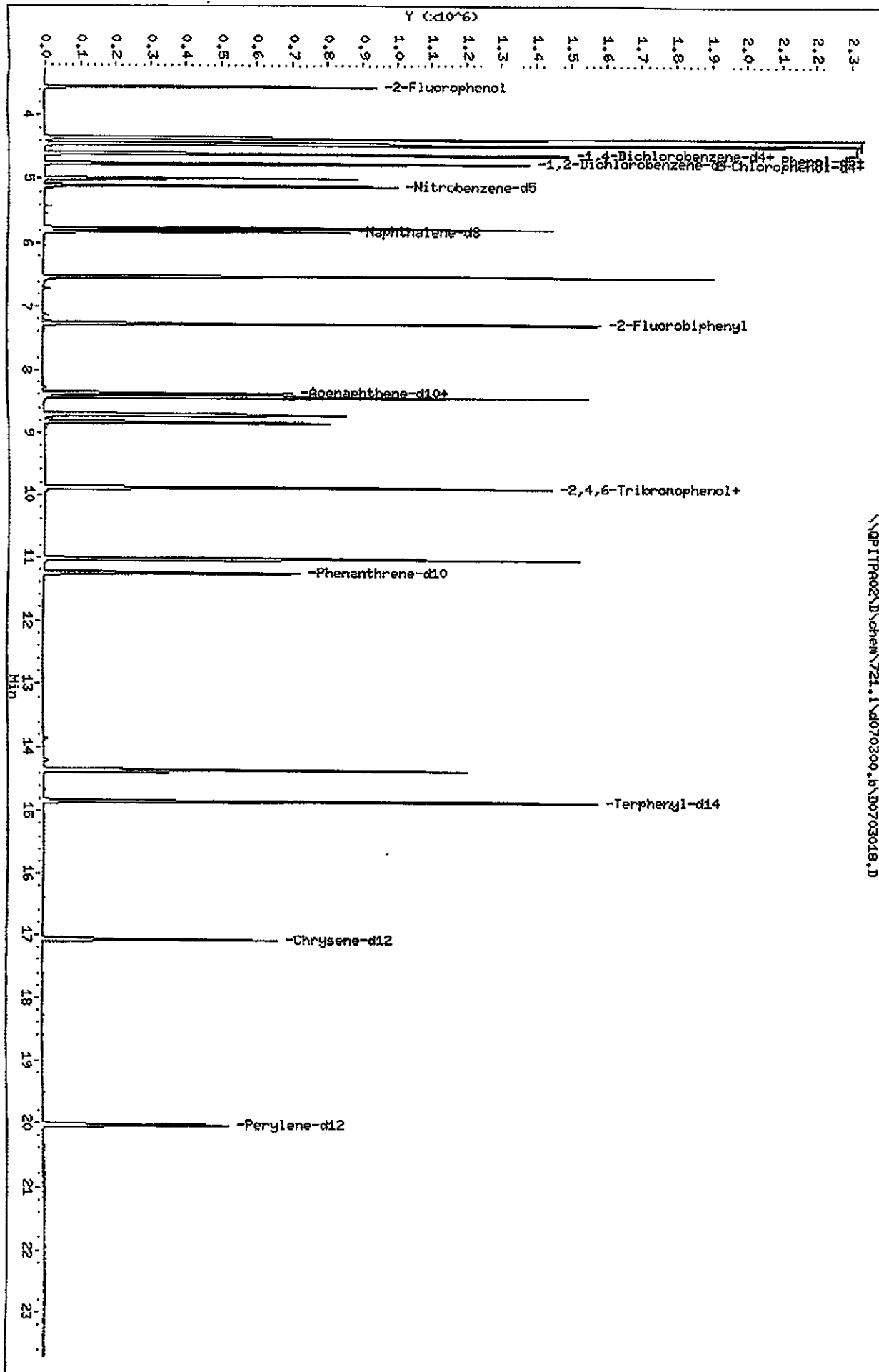
Dilution factor: 1

Date Analyzed: 07/03/00

QC Batch: 0185092

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L Q
83-32-9	Acenaphthene	40.1	
59-50-7	4-Chloro-3-methylphenol	59.4	
95-57-8	2-Chlorophenol	57.2	
106-46-7	1,4-Dichlorobenzene	36.7	
121-14-2	2,4-Dinitrotoluene	37.7	
100-02-7	4-Nitrophenol	51.6	
621-64-7	N-Nitrosodi-n-propylamine	39.6	
87-86-5	Pentachlorophenol	59.9	
108-95-2	Phenol	52.4	
129-00-0	Pyrene	38.7	
120-82-1	1,2,4-Trichlorobenzene	35.2	



Data File: \\GPITPA02\B\chem\721.i\6070300.b\60703018.D
 Date : 03-JUL-2000 18:22
 Client ID: INTR-LAB CHECK
 Sample Info: 607030129-1cs h2o 7/1/00 8270c
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 721.i
 Operator: 001562, JLF
 Column diameter: 0.25

Data File: \\QPITPA02\D\chem\721.i\d070300.b\D0703018.D
Report Date: 05-Jul-2000 10:31

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\721.i\d070300.b\D0703018.D
Lab Smp Id: DFN9J102 Client Smp ID: INTRA-LAB CHECK
Inj Date : 03-JUL-2000 18:22
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0f300129-lcs h2o 7/1/00 8270c
Misc Info : dfn9j102,d070300.b,8270c.m,pader.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d070300.b\8270c.m
Meth Date : 05-Jul-2000 10:27 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 14:34 Cal File: D0626CC1.D
Als bottle: 20 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

AK 2
7-5-00

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.600	4.598	(1.000)	96980	40.0000	
* 2 Naphthalene-d8	136	5.816	5.821	(1.000)	395365	40.0000	
* 3 Acenaphthene-d10	164	8.376	8.381	(1.000)	232886	40.0000	
* 4 Phenanthrene-d10	188	11.252	11.257	(1.000)	446832	40.0000	
* 5 Chrysene-d12	240	17.078	17.089	(1.000)	435598	40.0000	
* 6 Perylene-d12	264	20.041	20.045	(1.000)	375311	40.0000	
22 Phenol	94	4.371	4.370	(0.950)	380297	104.713	52.356 (Q)
23 bis (2-Chloroethyl) ether	93	Compound Not Detected.					
24 2-Chlorophenol	128	4.459	4.457	(0.969)	411293	114.364	57.182
26 1,3-Dichlorobenzene	146	Compound Not Detected.					
27 1,4-Dichlorobenzene	146	4.613	4.611	(1.003)	291780	73.4761	36.738
28 1,2-Dichlorobenzene	146	Compound Not Detected.					
30 2-Methylphenol	108	Compound Not Detected.					
31 2,2'-oxybis (1-Chloropropane)	45	Compound Not Detected.					

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
32 N-Nitroso-d1-n-propylamine	70	4.996	5.001	(1.086)	174318	79.2574	39.629
192 4-Methylphenol	108	Compound Not Detected.					
34 Hexachloroethane	117	Compound Not Detected.					
35 Nitrobenzene	77	Compound Not Detected.					
41 Isophorone	82	Compound Not Detected.					
42 2-Nitrophenol	139	Compound Not Detected.					
43 2,4-Dimethylphenol	107	Compound Not Detected.					
44 bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
48 2,4-Dichlorophenol	162	Compound Not Detected.					
50 1,2,4-Trichlorobenzene	180	5.769	5.774	(0.992)	253445	70.4840	35.242
51 Naphthalene	128	Compound Not Detected.					
52 4-Chloroaniline	127	Compound Not Detected.					
56 Hexachlorobutadiene	224	Compound Not Detected.					
59 4-Chloro-3-Methylphenol	107	6.522	6.533	(1.121)	379862	118.762	59.381
62 2-Methylnaphthalene	142	Compound Not Detected.					
64 Hexachlorocyclopentadiene	236	Compound Not Detected.					
66 2,4,6-Trichlorophenol	196	Compound Not Detected.					
67 2,4,5-Trichlorophenol	196	Compound Not Detected.					
70 2-Chloronaphthalene	162	Compound Not Detected.					
73 2-Nitroaniline	65	Compound Not Detected.					
76 Dimethylphthalate	163	Compound Not Detected.					
78 2,6-Dinitrotoluene	165	Compound Not Detected.					
79 Acenaphthylene	152	Compound Not Detected.					
81 3-Nitroaniline	138	Compound Not Detected.					
82 Acenaphthene	153	8.443	8.441	(1.008)	538264	80.1814	40.091
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	8.726	8.717	(1.042)	239628	103.290	51.645 (Q)
86 Dibenzofuran	168	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	8.840	8.838	(1.055)	212168	75.4124	37.706
93 Diethylphthalate	149	Compound Not Detected.					
94 Fluorene	166	Compound Not Detected.					
95 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96 4-Nitroaniline	138	Compound Not Detected.					
98 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99 N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
106 4-Bromophenyl-phenylether	248	Compound Not Detected.					
107 Hexachlorobenzene	283	Compound Not Detected.					
111 Pentachlorophenol	266	11.030	11.028	(0.980)	271137	119.835	59.918
115 Phenanthrene	178	Compound Not Detected.					
116 Anthracene	178	Compound Not Detected.					
119 Carbazole	167	Compound Not Detected.					
120 Di-n-Butylphthalate	149	Compound Not Detected.					
123 Fluoranthene	202	Compound Not Detected.					
125 Pyrene	202	14.363	14.348	(0.841)	996441	77.4582	38.729
131 Butylbenzylphthalate	149	Compound Not Detected.					
135 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136 Benzo(a)Anthracene	228	Compound Not Detected.					

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
137 Chrysene	228				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.117	5.115	(0.880)	303034	72.3965	36.198
\$ 155 2-Fluorobiphenyl	172	7.274	7.272	(0.868)	594571	76.2904	38.145
\$ 156 Terphenyl-d14	244	14.853	14.845	(0.870)	930085	86.2523	43.126
\$ 157 Phenol-d5	99	4.365	4.356	(0.949)	376519	115.982	57.991
\$ 158 2-Fluorophenol	112	3.545	3.557	(0.771)	216398	81.6604	40.830
\$ 159 2,4,6-Tribromophenol	330	9.888	9.893	(0.879)	265935	127.589	63.794
\$ 186 2-Chlorophenol-d4	132	4.445	4.443	(0.966)	414471	124.538	62.269
\$ 187 1,2-Dichlorobenzene-d4	152	4.761	4.766	(1.035)	171172	71.4408	35.720

QC Flag Legend

Q - Qualifier signal failed the ratio test.

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G030000 092

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN9J103

Date Extracted: 07/01/00

Dilution factor: 1

Date Analyzed: 07/03/00

QC Batch: 0185092

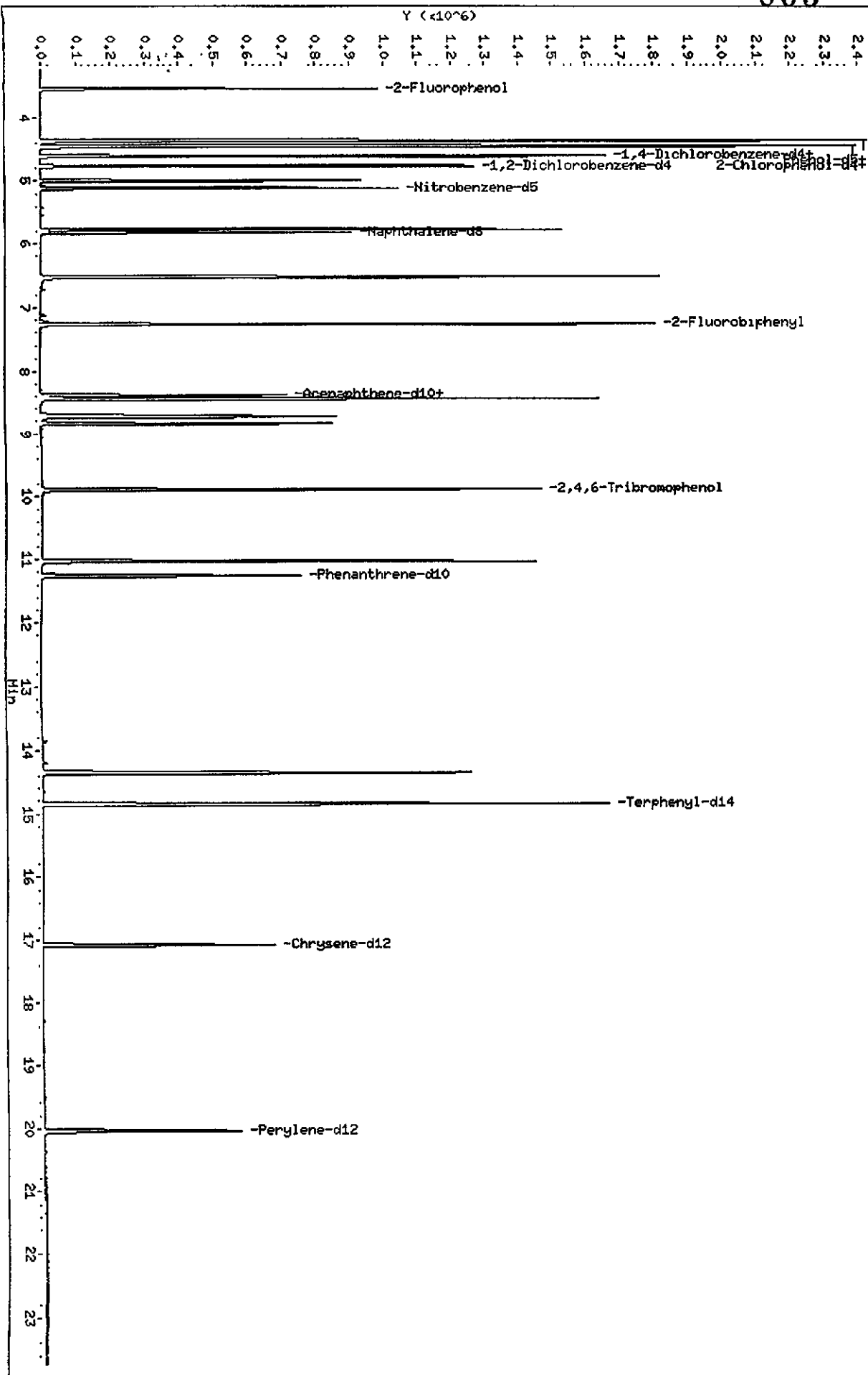
Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	41.6	
59-50-7	4-Chloro-3-methylphenol	58.5	
95-57-8	2-Chlorophenol	56.8	
106-46-7	1,4-Dichlorobenzene	36.6	
121-14-2	2,4-Dinitrotoluene	38.6	
100-02-7	4-Nitrophenol	52.8	
621-64-7	N-Nitrosodi-n-propylamine	38.2	
87-86-5	Pentachlorophenol	59.5	
108-95-2	Phenol	53.4	
129-00-0	Pyrene	38.7	
120-82-1	1,2,4-Trichlorobenzene	36.1	

Data File: \\NPITP02\N\chem\721.1\070300.b\0703019.D
 Date : 03-JUL-2000 18:52
 Client ID: INTRA-LAB CHECK
 Sample Info: 00F300129-1.csd h2o 7/1/00 8270c
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 721.1
 Operator: 001562, DLF
 Column diameter: 0.25

\\NPITP02\N\chem\721.1\070300.b\0703019.D



663 292

STL Pittsburgh

Semivolatile REPORT SW-846 Method 8270
Data file : \\QPITPA02\D\chem\721.i\d070300.b\D0703019.D
Lab Smp Id: DFN9J103 Client Smp ID: INTRA-LAB CHECK
Inj Date : 03-JUL-2000 18:52
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0f300129-lcsd h2o 7/1/00 8270c
Misc Info : dfn9j103,d070300.b,8270c.m,pader.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d070300.b\8270c.m
Meth Date : 05-Jul-2000 10:27 ferguson Quant Type: ISTD
Cal Date : 26-JUN-2000 14:34 Cal File: D0626CC1.D
Als bottle: 21 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC013

plh
7-5-00

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.596	4.598 (1.000)		102238	40.0000	
* 2 Naphthalene-d8	136	5.819	5.821 (1.000)		408487	40.0000	
* 3 Acenaphthene-d10	164	8.379	8.381 (1.000)		233666	40.0000	
* 4 Phenanthrene-d10	188	11.255	11.257 (1.000)		453246	40.0000	
* 5 Chrysene-d12	240	17.080	17.089 (1.000)		446213	40.0000	
* 6 Perylene-d12	264	20.043	20.045 (1.000)		381908	40.0000	
22 Phenol	94	4.374	4.370 (0.952)		408984	106.820	53.410(Q)
23 bis(2-Chloroethyl) ether	93		Compound Not Detected.				
24 2-Chlorophenol	128	4.461	4.457 (0.971)		430662	113.591	56.796
26 1,3-Dichlorobenzene	146		Compound Not Detected.				
27 1,4-Dichlorobenzene	146	4.609	4.611 (1.003)		306643	73.2476	36.624
28 1,2-Dichlorobenzene	146		Compound Not Detected.				
30 2-Methylphenol	108		Compound Not Detected.				
31 2,2'-oxybis(1-Chloropropane)	45		Compound Not Detected.				

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
32 N-Nitroso-di-n-propylamine	70	4.999	5.001	(1.088)	177068	76 3673	38 184
192 4-Methylphenol	108	Compound Not Detected.					
34 Hexachloroethane	117	Compound Not Detected.					
35 Nitrobenzene	77	Compound Not Detected.					
41 Isophorone	82	Compound Not Detected.					
42 2-Nitrophenol	139	Compound Not Detected.					
43 2,4-Dimethylphenol	107	Compound Not Detected.					
44 bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
48 2,4-Dichlorophenol	162	Compound Not Detected.					
50 1,2,4-Trichlorobenzene	180	5.772	5.774	(0.992)	268472	72 2647	36.132
51 Naphthalene	128	Compound Not Detected.					
52 4-Chloroaniline	127	Compound Not Detected.					
56 Hexachlorobutadiene	224	Compound Not Detected.					
59 4-Chloro-3-Methylphenol	107	6.524	6.533	(1.121)	386707	117.018	58.509
62 2-Methylnaphthalene	142	Compound Not Detected.					
64 Hexachlorocyclopentadiene	236	Compound Not Detected.					
66 2,4,6-Trichlorophenol	196	Compound Not Detected.					
67 2,4,5-Trichlorophenol	196	Compound Not Detected.					
70 2-Chloronaphthalene	162	Compound Not Detected.					
73 2-Nitroaniline	65	Compound Not Detected.					
76 Dimethylphthalate	163	Compound Not Detected.					
78 2,6-Dinitrotoluene	165	Compound Not Detected.					
79 Acenaphthylene	152	Compound Not Detected.					
81 3-Nitroaniline	138	Compound Not Detected.					
82 Acenaphthene	153	8.439	8.441	(1.007)	561014	83.2913	41.646
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	8.728	8.717	(1.042)	245999	105.682	52.841 (Q)
86 Dibenzofuran	168	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	8.842	8.838	(1.055)	217837	77.1689	38.584
93 Diethylphthalate	149	Compound Not Detected.					
94 Fluorene	166	Compound Not Detected.					
95 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
96 4-Nitroaniline	138	Compound Not Detected.					
98 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
99 N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
106 4-Bromophenyl-phenylether	248	Compound Not Detected.					
107 Hexachlorobenzene	283	Compound Not Detected.					
111 Pentachlorophenol	266	11.033	11.028	(0.980)	273271	119.069	59.535
115 Phenanthrene	178	Compound Not Detected.					
116 Anthracene	178	Compound Not Detected.					
119 Carbazole	167	Compound Not Detected.					
120 Di-n-Butylphthalate	149	Compound Not Detected.					
123 Fluoranthene	202	Compound Not Detected.					
125 Pyrene	202	14.359	14.348	(0.841)	1019862	77 3929	38.696
131 Butylbenzylphthalate	149	Compound Not Detected.					
135 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
136 Benzo(a)Anthracene	228	Compound Not Detected.					

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
137 Chrysene	228				Compound Not Detected.		
139 bis(2-ethylhexyl)Phthalate	149				Compound Not Detected.		
140 Di-n-octylphthalate	149				Compound Not Detected.		
141 Benzo(b)fluoranthene	252				Compound Not Detected.		
142 Benzo(k)fluoranthene	252				Compound Not Detected.		
146 Benzo(a)pyrene	252				Compound Not Detected.		
149 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
150 Dibenz(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.113	5.115 (0.879)		312745	72 3164	36 158
\$ 155 2-Fluorobiphenyl	172	7.270	7.272 (0.868)		622344	79 5874	39.794
\$ 156 Terphenyl-d14	244	14.856	14.845 (0.870)		967154	87.5562	43.778
\$ 157 Phenol-d5	99	4.361	4.356 (0.949)		398542	116.452	58.226
\$ 158 2-Fluorophenol	112	3.548	3 557 (0.772)		229946	82 3103	41.155
\$ 159 2,4,6-Tribromophenol	330	9.891	9.893 (0.879)		275170	130.151	65.076
\$ 186 2-Chlorophenol-d4	132	4.448	4.443 (0.968)		428582	122.155	61.078
\$ 187 1,2-Dichlorobenzene-d4	152	4.764	4.766 (1.037)		177446	70.2505	35.125

QC Flag Legend

Q - Qualifier signal failed the ratio test.

**GC/MS SEMIVOLATILE
MISCELLANEOUS**

Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS
 Operator: 001562, DLF
 Data Path: D:\HPCHEM\1\DATA\d062600.b\ **663 296 NEW COLUMN**
 Pre-Seq Cmd:
 Post-Seq Cmd: *OK* **6-26-00** **NEW SPT**

Method Sections To Run On A Barcode Mismatch
 (X) Full Method (X) Inject Anyway
 () Reprocessing Only () Don't Inject

IS = 194-174-1

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	D0626WUP	70EARLY	25 warm up
2	Sample	100	D0626WU2	70EARLY	25 warm up
3	Sample	1	D0626DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
4	Sample	100	D0626WU3	70EARLY	25 warm up
5	Sample	1	D0626DF2	DFTHP90	dftpp (25ug/ml) 194-175-8
6	Sample	1413 6-26-00	D0626DF3	DFTHP90	dftpp (25ug/ml) 194-175-8
7	Sample	2	D0626CC1	70EARLY	sstd050 (25UG/ML) 194-178-12
8	Sample	3	D0626CC2	70EARLY	sstd020 (10UG/ML) 194-175-10
9	Sample	4	D0626CC3	70EARLY	sstd080 (40UG/ML) 194-175-12
10	Sample	5	D0626CC4	70EARLY	sstd120 (60UG/ML) 194-175-13
11	Sample	6	D0626CC5	70EARLY	sstd160 (80UG/ML) 194-175-14
12	Sample	GOOD	D0626CVS	70EARLY	std ver 194-175-7
13	Sample	PQ	D0626001	70EARLY	c0f170111-sblk tclp 6/23/00 8
14	Sample	PQ	D0626002	70EARLY	c0f170111-lcs tclp 6/23/00 82
15	Sample	PQ	D0626003	70EARLY	c0f170111-lcsd tclp 6/23/00 8
16	Sample	PQ	D0626004	70EARLY	c0f170111-001 tclp 6/23/00 82
17	Sample	Q	D0626005	70EARLY	c0f170104-001 tclp 6/23/00 82
18	Sample	PQ	D0626006	70EARLY	c0f170110-sblk tclp 6/23/00 8
19	Sample	PQ	D0626007	70EARLY	c0f170110-lcs tclp 6/23/00 82
20	Sample	Q	D0626008	70EARLY	c0f170110-001 tclp 6/23/00 82
21	Sample	Q	D0626009	70EARLY	c0f170110-001ms tclp 6/23/00
22	Sample	Q	D0626010	70EARLY	c0f170110-001msd tclp 6/23/00
23	Sample	PQ	D0626011	70EARLY	c0f170104-sblk WD 6/22/00 827
24	Sample	PQ	D0626012	70EARLY	c0f170104-lcs WD 6/22/00 8270
25	Sample	Q	D0626013	70EARLY	c0f170104-002 WD 6/22/00 8270
26	Sample	Q	D0626014	70EARLY	c0f170104-002ms WD 6/22/00 82
27	Sample	Q	D0626015	70EARLY	c0f170104-002msd WD 6/22/00 8
28	Sample	✓	D0626016	70EARLY	blank
29	Sample	✓	D0626017	70EARLY	blank
30					

FR/27/00

Continuous L-L Extraction Worksheet

STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

Me Q₂ Committed To Your Success

Began	7-1-00	Time	1230	Prep Meth #	H2SO4	35202	Solvent	186-15-12	Solvent Lot	NaSO4 Lot Number	713624	Clean up Method	N/A
Change over	7-3-00	Time	1000	Analysis	8270	NaOH	080-09	Solvent Mfg.	Baker	Surrogate	Lot #	Matrix Spike	Lot #
Completed	7-3-00	Time	0800	Client ID	N/A	Extract Vol (mL)	Final Volume mL	pH	Surrogate	Lot #	Surrogate	Lot #	MS Vol (mL)
Lot Number	Sample ID	Client ID	Extract Vol (mL)	Final Volume mL	pH	Surrogate	Lot #	Surrogate	Lot #	Surrogate	Lot #	Surrogate	Lot #
1. COF300129	BLK	N/A	1000	1.0	5/2/11	194-179-6	0.5	194-179-1	0.5	N/A	0.5	N/A	N/A
2.	CS	N/A	1000	1.0	5/2/11	194-179-6	0.5	194-179-1	0.5	N/A	0.5	N/A	N/A
3.	CS	N/A	1000	1.0	5/2/11	194-179-6	0.5	194-179-1	0.5	N/A	0.5	N/A	N/A
4.	CS	N/A	1000	1.0	5/2/11	194-179-6	0.5	194-179-1	0.5	N/A	0.5	N/A	N/A
5. COF300207	001	N/A	1000	1.0	5/2/11	194-179-6	0.5	194-179-1	0.5	N/A	0.5	N/A	N/A
6.													
7.													
8.													
9.													
10.													
11.													
12.													
13.													
14.													
15.													
16.													
17.													
18.													
19.													
20.													
21.													
22.													
23.													
Prep Analysis:	KC	KC	KC	IN/KC	KC	KC	KC	KC	KC	KC	KC	KC	KC
Extract(s)	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG
Record line number from above	7-3-00	0750	7-3-00	0840	7-3-00	1030	7-3-00	1200	7-3-00	1300	7-3-00	1400	7-3-00
Batch Number:	0185092												

Sequence Name: D:\HPCHEM\1\SEQUENCE\D070300.S
 Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS
 Operator: 001562, DLF
 Data Path: D:\HPCHEM\1\DATA\d070300.b\ 663 298
 Pre-Seq Cmd:
 Post-Seq Cmd:

7-3-00

8270c
625

Method Sections To Run On A Barcode Mismatch
 (X) Full Method (X) Inject Anyway
 () Reprocessing Only () Don't Inject

IS = 194-174-

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	D0703WUP	70EARLY	25 warm up
2	Sample	10910 73-04	D0703DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
3	Sample	8270/6252	D0703CCC	70EARLY	sstd050 (25UG/ML) 194-179-7 8
4	Sample	PQ	3	D0703001	8270C ✓ c0f270194-sblk h2o 7/2/00 827
5	Sample	PQ	4	D0703002	8270C ✓ c0f270194-lcs h2o 7/2/00 8270
6	Sample	PQ	5	D0703003	8270C ✓ c0f270194-lcsd h2o 7/2/00 827
7	Sample	PQ	6	D0703004	8270C ✓ c0f270194-001 h2o 7/2/00 8270
8	Sample	PQ	7	D0703005	8270C c0f300204-sblk soil 7/1/00 82
9	Sample	PQ	8	D0703006	8270C c0f300204-lcs soil 7/1/00 827
10	Sample	PQ	9	D0703007	8270C c0f300204-002 soil 7/1/00 827
11	Sample	PQ	10	D0703008	8270C c0f300204-002ms soil 7/1/00 8
12	Sample	PQ	11	D0703009	8270C c0f300204-002msd soil 7/1/00
13	Sample	PQ	12	D0703010	8270C c0f300204-003 soil 7/1/00 827
14	Sample	PQ	13	D0703011	8270C c0f300204-004 soil 7/1/00 827
15	Sample	PQ	14	D0703012	70EARLY c0f260151-sblk TCLP 7/1/00 82
16	Sample	PQ	15	D0703013	70EARLY c0f260151-lcs TCLP 7/1/00 827
17	Sample	PQ	16	D0703014	70EARLY c0f260151-001 TCLP 7/1/00 827
18	Sample	PQ	17	D0703015	70EARLY c0f260151-001ms TCLP 7/1/00 8
19	Sample	PQ	18	D0703016	70EARLY c0f260151-001msd TCLP 7/1/00
20	Sample	PQ	19	D0703017	8270C c0f300129-sblk h2o 7/1/00 827
21	Sample	PQ	20	D0703018	8270C c0f300129-lcs h2o 7/1/00 8270
22	Sample	PQ	21	D0703019	8270C c0f300129-lcsd h2o 7/1/00 827
23	Sample	PQ	22	D0703020	8270C c0f300129-001 h2o 7/1/00 8270
24	Sample	PQ	23	D0703021	8270C c0f300207-001 h2o 7/1/00 8270
25	Sample	PQ	24	D0703022	8270C c0f210255-011 h2o 6/22/00 827
26	Sample	PQ	25	D0703023	8270C c0f210123-001 2x h2o 6/22/00
27	Sample	PQ	26	D0703024	8270C blank
28	Sample	PQ	27	D0703025	70EARLY c0f290177-sblk h2o 6/30/00 62
29	Sample	PQ	28	D0703026	70EARLY c0f290177-lcs h2o 6/30/00 625
30	Sample	PQ	29	D0703027	70EARLY c0f290177-lcsd h2o 6/30/00 62
31	Sample	PQ	30	D0703028	70EARLY c0f290177-002 h2o 6/30/00 625
32	Sample	PQ	31	D0703029	70EARLY c0f270237-003 50x h2o 6/30/00
33	Sample	PQ	32	D0703030	70EARLY blank
34	Sample	PQ	32	D0703031	70EARLY blank

Sequence Name: D:\HPCHEM\1\SEQUENCE\D070500.S

663 299

Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS

Operator: 001562, DLF

Data Path: D:\HPCHEM\1\DATA\d070500.b\

Pre-Seq Cmd:

Post-Seq Cmd:

529
7-5-008270c
625

Method Sections To Run On A Barcode Mismatch
 (X) Full Method (X) Inject Anyway
 () Reprocessing Only () Don't Inject

I-5 = 194-174-1

Line Type	Vial	DataFile	Method	Sample Name

1 Sample	100	D0705WUP	70EARLY	25 warm up
2 Sample	1	D0705DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
3 Sample	1230 7-5-00	D0705DF2	DFTHP90	dftpp (25ug/ml) 194-175-8
4 Sample	8270c 2	D0705CCC	70EARLY	sstd050 (25UG/ML) 194-179-7 8
5 Sample	3	D0705001	70EARLY	c0f300129-sblk h2o 7/1/00 827
6 Sample	4	D0705002	70EARLY	c0f300129-sblk h2o 7/1/00 8270 (4X)
7 Sample	5	D0705003	8270C	c0f220186-001 h2o 6/28/00 827
8 Sample	6	D0705004	8270C	c0f220186-002 h2o 6/28/00 827
9 Sample	7	D0705005	8270C	c0f220186-003 h2o 6/28/00 827
10 Sample	8	D0705006	8270C	c0f220186-005 h2o 6/28/00 827
11 Sample	9	D0705007	8270C	c0f220186-006 2x h2o 6/28/00
12 Sample	10	D0705008	8270C	c0f220186-007 h2o 6/28/00 827
13 Sample	11	D0705009	8270C	c0f220186-008 h2o 6/28/00 827
14 Sample	12	D0705010	8270C	c0f220186-009 h2o 6/28/00 827
15 Sample	13	D0705011	8270C	H0f260115-004 h2o 6/28/00 827
16 Sample	14	D0705012	8270C	c0f130163-sblk h2o mep/gpc 6/
17 Sample	15	D0705013	8270C	c0f130163-lcs h2o mep/gpc 6/2
18 Sample	16	D0705014	8270C	c0f130163-001 h2o mep/gpc 6/2
19 Sample	17	D0705015	8270C	c0f130163-001ms h2o mep/gpc 6
20 Sample	18	D0705016	8270C	c0f130163-001msd h2o mep/gpc
21 Sample	19	D0705017	8270C	c0f130163-002 h2o mep/gpc 6/2
22 Sample	20	D0705018	8270C	c0f130163-003 h2o mep/gpc 6/2
23 Sample	21	D0705019	8270C	c0f140259-001 h2o mep/gpc 6/2
24 Sample	22	D0705020	8270C	c0f140259-002 h2o mep/gpc 6/2
25 Sample	23	D0705021	8270C	c0f140259-003 h2o mep/gpc 6/2
26 Sample	24	D0705022	8270C	c0f140259-sblk h2o mep/gpc 6/
27 Sample	25	D0705023	8270C	c0f150298-001 h2o mep/gpc 6/2
28 Sample	26	D0705024	70EARLY	c0f270237-003 250x h2o 6/30/0
29 Sample	27	D0705025	70EARLY	GPC B 6/30/00
30 Sample	28	D0705026	70EARLY	GPC B 6/30/00

663 300

PSR024 7/02/00 0:49:43 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: GEEHRINK

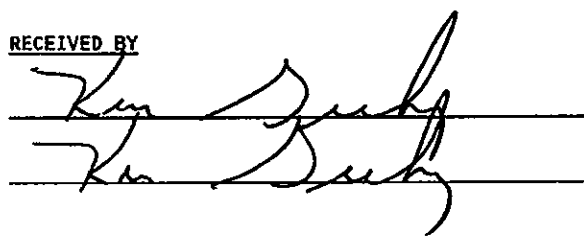
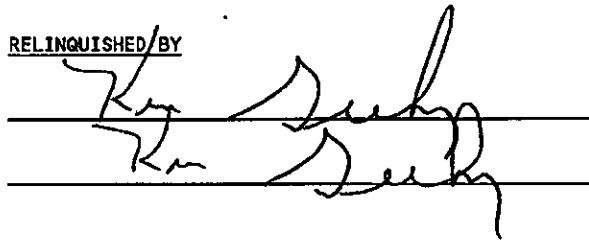
METHOD: QL Base/Neutrals and Acids (8270C)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u> <u>RCVD</u>	<u>QTY</u> <u>REQD</u>
2C	DFJX2-1-01	___	247097	413032	I-49-QL	COF300129	001		WATER	0	6
2D CLP1	DFKQ3-1-02	___	247098	399411	I-49-QL	COF300207	001		WATER	0	13

RELINQUISHED BY

RECEIVED BY

DATE/TIME

7-1-00 0800
7-1-00 1000

***** END OF REPORT *****

STL Pittsburgh

2123

2 280

663 301

PESTICIDE DATA

..

**PESTICIDE
QC SUMMARY**

2E
WATER PESTICIDE SURROGATE RECOVERY

663 303

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0F300207

GC Column(1): DB608

ID: 0.53 (mm)

GC Column(2): DB1701

ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	DF/SI/0181/I	119	63	97	100			0
02	PBLK1	92	92	98	102			0
03	LCS1	95	95	98	103			0
04	LCD1	88	88	96	96			0
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
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16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY

QC LIMITS 31-130

S1 (TCX) = Tetrachloro-m-xylene

S2 (DCB) = Decachlorobiphenyl

(20-141) 02
(52-130) 7.7-cc
10-147

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8M102

BATCH: 0184111

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.234	93	49 - 137	
Heptachlor	0.250	0.226	90	57 - 124	
Aldrin	0.250	0.222	89	62 - 120	
Dieldrin	0.500	0.491	98	68 - 130	
Endrin	0.500	0.493	99	46 - 137	
4,4'-DDT	0.500	0.484	97	60 - 140	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8M103

BATCH: 0184111

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.218	87	49 - 137	
Endrin	0.500	0.499	100	46 - 137	
4,4'-DDT	0.500	0.541	108	60 - 140	
Heptachlor	0.250	0.215	86	57 - 124	
Aldrin	0.250	0.209	84	62 - 120	
Dieldrin	0.500	0.456	91	68 - 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

663 306

PBLK1

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: 40325 SDG No.: C0F300207

Lab Sample ID: DFN8M101

Lab File ID: D-A3796

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW3510

Sulfur Cleanup (Y/N) N

Date Extracted: 07/02/00

Date Analyzed (1): 07/03/00

Date Analyzed (2): 07/03/00

Time Analyzed (1): 1432

Time Analyzed (2): 1432

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column (1): DB608 ID: 0.53 (mm) GC Column (2): DB1701 ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	DF/SI/0181/I	DFKQ3103	07/03/00	07/03/00
02	LCS1	DFN8M102	07/03/00	07/03/00
03	LCD1	DFN8M103	07/03/00	07/03/00
04				
05				
06				
07				
08				
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15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

**PESTICIDE
SAMPLE DATA**

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number: .

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3103

Date Extracted: 07/02/00

Date Analyzed: 07/04/00

QC Batch: 0184111

Client Sample Id: DF/S1/0181/IDW/001

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.030	J P
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.029	J P
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.022	J P
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.012	J P
72-54-8	4,4'-DDD	0.050	U
72-55-9	4,4'-DDE	0.012	J P
50-29-3	4,4'-DDT	0.050	U
60-57-1	Dieldrin	0.050	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
72-20-8	Endrin	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

Data File: /var/chem/gc4.i/4030-G.b/d-a3795.d
 Report Date: 05-Jul-2000 09:10

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3795.d
 Lab Smp Id: DFKQ3103 Client Smp ID: DF/SI/0181/IDW/001
 Inj Date : 03-JUL-2000 14:06
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DFKQ3103,4030-G.b,,PEST.sub,,
 Misc Info : 300207-1
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTA.m
 Meth Date : 05-Jul-2000 08:44 g Quant Type: ESTD
 Cal Date : 29-JUN-2000 20:25 Cal File: d-a3733.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
\$ 1 Tetrachloro-m-xylene	5.733	5.740	-0.007	72407	0.02385	0.2385
28 Chlorobenzilate	18.807	18.840	-0.033	1725	0.00110	0.01096(a)
29 Kepone	Compound Not Detected.					
4 HEXACHLORO BENZENE	7.500	7.453	0.047	26919	0.00550	0.05504
5 alpha-BHC	Compound Not Detected.					
6 gamma-BHC (Lindane)	9.493	9.467	0.026	6682	0.00219	0.02191(a)
7 beta-BHC	9.787	9.747	0.040	4936	0.00289	0.02893(a)
9 Chlordane	10.167	10.140	0.027	27762	0.11652	1.165
10 Heptachlor	Compound Not Detected.					
8 delta-BHC	11.193	11.173	0.020	7405	0.00236	0.02365(a)
11 Aldrin	11.853	11.893	-0.040	11286	0.00456	0.04565(a)
19 Isodrin	13.387	13.420	-0.033	41987	0.01870	0.1870
12 Heptachlor epoxide	Compound Not Detected.					
13 gamma-Chlordane	14.180	14.207	-0.027	3309	0.00118	0.01182(a)
14 alpha-Chlordane	14.580	14.587	-0.007	12241	0.00422	0.04217(a)
15 Endosulfan I	Compound Not Detected.					

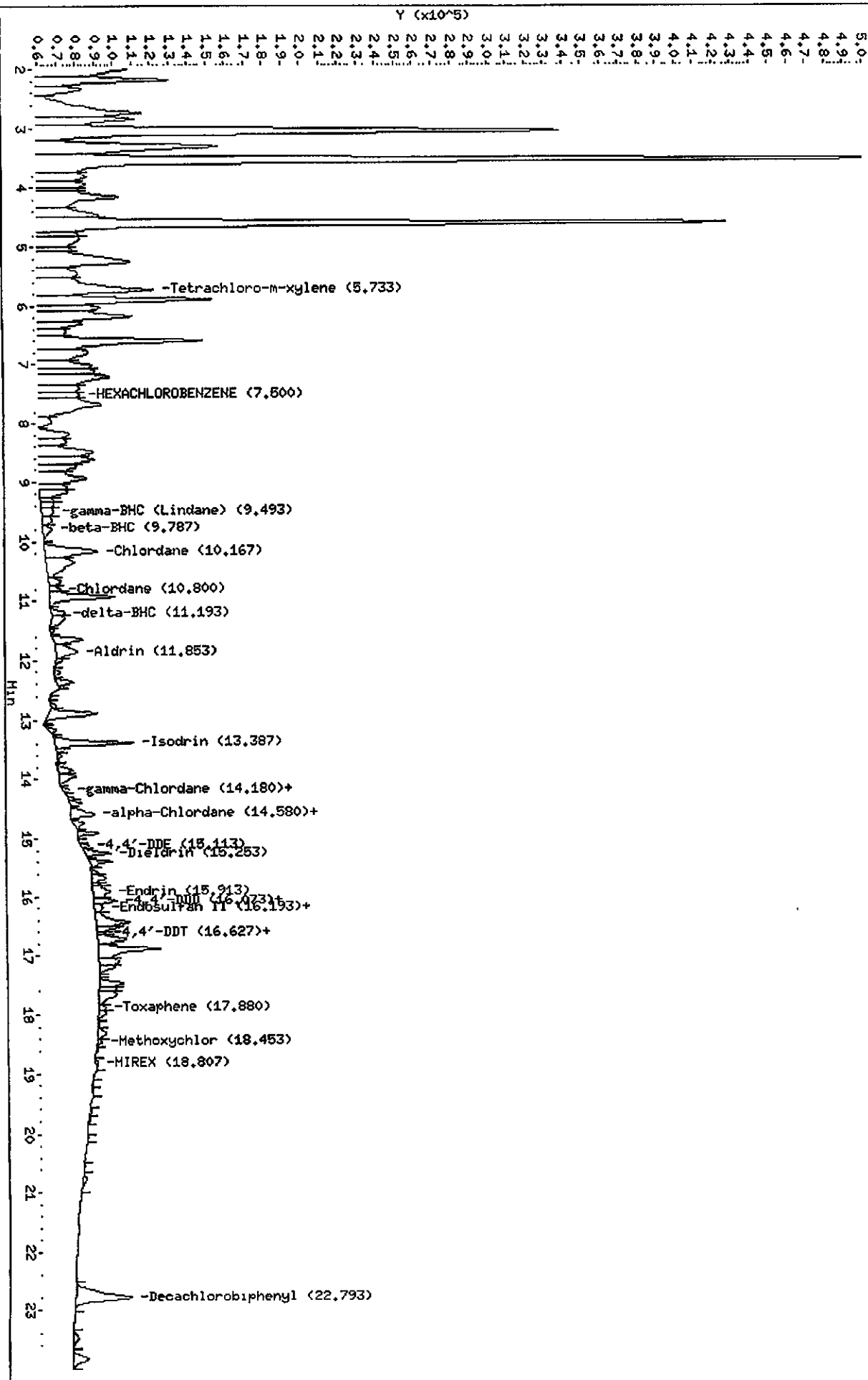
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
16 4,4'-DDE	15.113	15.113	0.000	3686	0.00120	0.01196(a)
17 Dieldrin	15.253	15.260	-0.007	13772	0.00460	0.04603(a)
20 Endrin	15.913	15.900	0.013	9087	0.00366	0.03660(a)
21 4,4'-DDD	16.073	16.060	0.013	12156	0.00461	0.04613(a)
18 Toxaphene	16.073	16.080	-0.007	12156	0.15943	1.594
22 Endosulfan II	16.193	16.207	-0.014	4331	0.00157	0.01570(a)
23 4,4'-DDT	16.627	16.587	0.040	4477	0.00184	0.01837(a)
24 Endrin aldehyde	Compound Not Detected.					
26 Endosulfan sulfate	Compound Not Detected.					
25 Methoxychlor	18.453	18.427	0.026	2293	0.00217	0.02166(a)
27 Endrin ketone	Compound Not Detected.					
\$ 30 Decachlorobiphenyl	22.793	22.807	-0.014	30303	0.01932	0.1932

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.1/4030-G.b/d-a3795.d
 Date : 03-JUL-2000 14:06
 Client ID: DF/SI/0181/IDM/001
 Sample Info: DFKQ3103,4030-G.b,,PEST,sub,,
 Volume Injected (ul): 1.0
 Column phase: DB608

Instrument: gc4.i
 Operator: 1891
 Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-b3795.d
 Report Date: 05-Jul-2000 10:01

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-b3795.d
 Lab Smp Id: DFKQ3103 Client Smp ID: DF/SI/0181/IDW/001
 Inj Date : 03-JUL-2000 14:06
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DFKQ3103,4030-G.b,,PEST.sub,,,
 Misc Info : 300207-1
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTB.m
 Meth Date : 05-Jul-2000 09:58 g Quant Type: ESTD
 Cal Date : 29-JUN-2000 18:14 Cal File: d-b3728.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
5 alpha-BHC				Compound Not Detected.		
58 MIREX				Compound Not Detected.		
29 Kepone				Compound Not Detected.		
4 HEXACHLOROBENZENE				Compound Not Detected.		
6 gamma-BHC (Lindane)	10.033	9.987	0.046	9933	0.00412	0.04118 (a)
7 beta-BHC	12.440	12.467	-0.027	9119	0.00657	0.06571
9 Chlordane	10.227	10.253	-0.026	6342	0.04699	0.4699 (a)
10 Heptachlor	10.833	10.827	0.006	8014	0.00307	0.03071 (a)
8 delta-BHC				Compound Not Detected.		
11 Aldrin	11.813	11.773	0.040	7705	0.00297	0.02970 (a)
12 Heptachlor epoxide				Compound Not Detected.		
13 gamma-Chlordane	14.593	14.633	-0.040	8007	0.00268	0.02680 (a)
14 alpha-Chlordane				Compound Not Detected.		
15 Endosulfan I				Compound Not Detected.		
16 4,4'-DDE	14.887	14.933	-0.046	9409	0.00306	0.03056 (a)
17 Dieldrin				Compound Not Detected		

Data File: /var/chem/gc4.i/4030-G.b/d-b3795.d
 Report Date: 05-Jul-2000 10:01

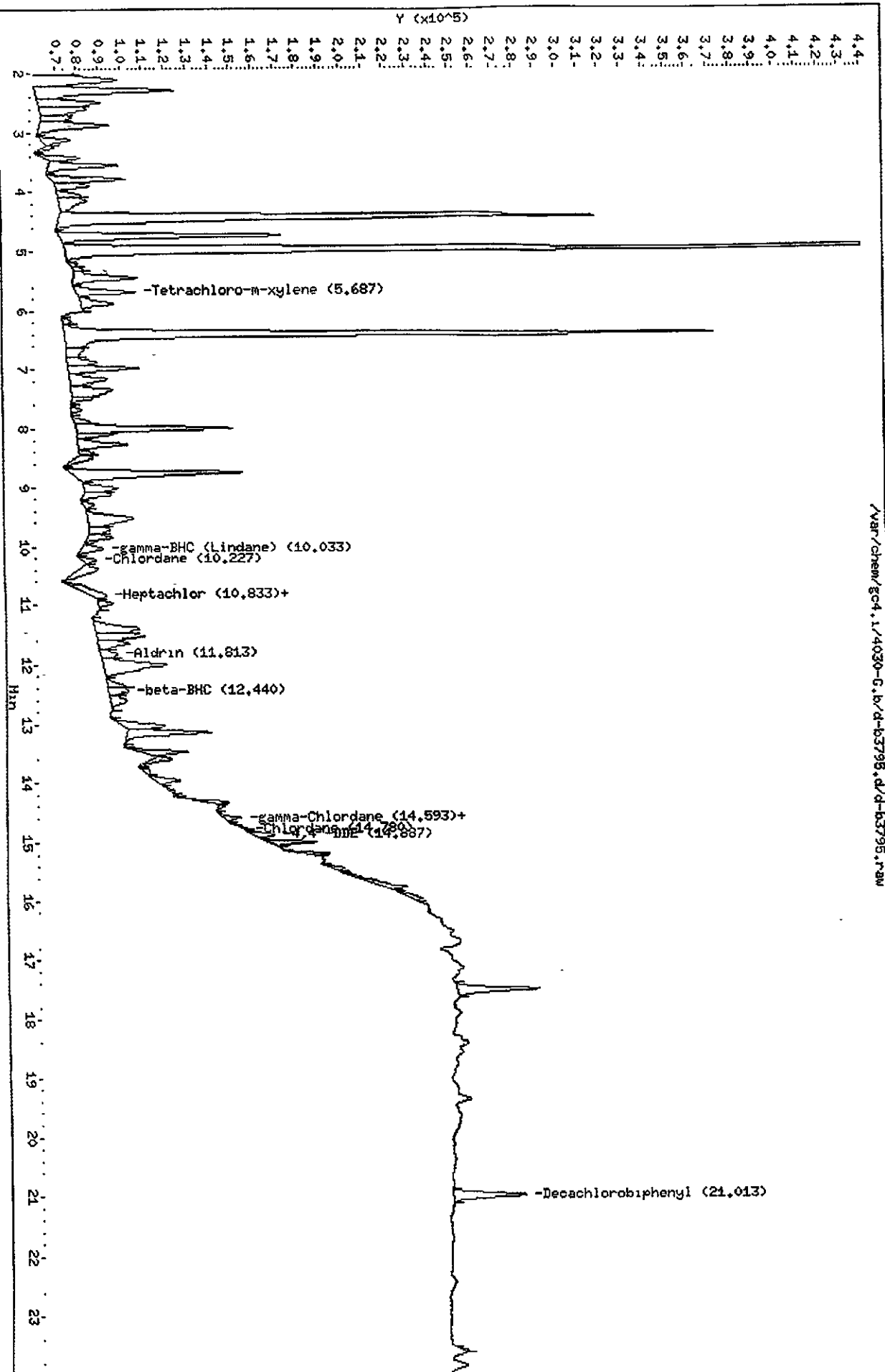
Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(ug/L)
=====	==	=====	=====	=====	=====	=====	=====	=====
20 Endrin						Compound Not Detected		
18 Toxaphene						Compound Not Detected.		
21 4,4'-DDD						Compound Not Detected		
22 Endosulfan II						Compound Not Detected.		
23 4,4'-DDT						Compound Not Detected.		
24 Endrin aldehyde						Compound Not Detected.		
26 Endosulfan sulfate						Compound Not Detected.		
25 Methoxychlor						Compound Not Detected.		
27 Endrin ketone						Compound Not Detected.		
\$ 1 Tetrachloro-m-xylene	5.687	5.693	-0.006		26946		0.01253	0.1253
\$ 30 Decachlorobiphenyl	21.013	21.020	-0.007		33144		0.01990	0.1990

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/eq4.1/4030-G.b/d-b3795.d
Date: 03-JUL-2000 14:06
Client ID: DF/SI/0161/IDM/901
Sample Info: DFKQ3103,4030-G.b,,PEST,sub,,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: eq4.1
Operator: 1891
Column diameter: 0.53



PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

DF/SI/018
1/IDW/001

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: 40325

SDG No.: C0F300207

Lab Sample ID: DFKQ3103

Date(s) Analyzed: 07/03/00 07/03/00

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): DB608

ID: 0.53 (mm)

GC Column(2): DB1701

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
beta-BHC	1	9.79	9.68	9.78	0.02893	
	2	12.44	12.42	12.52	0.06571	127.1
gamma-BHC (Lindane)	1	9.49	9.40	9.50	0.02191	
	2	10.03	9.94	10.04	0.04118	88.0
Aldrin	1	11.85	11.84	11.94	0.04565	
	2	11.81	11.72	11.82	0.02970	53.7
4,4'-DDE	1	15.11	15.06	15.16	0.01196	
	2	14.89	14.88	14.98	0.03056	155.5
gamma-Chlordane	1	14.18	14.14	14.24	0.01182	
	2	14.59	14.58	14.68	0.02680	126.7
	1					
	2					
	1					
	2					
	1					
	2					

**PESTICIDE
CALIBRATION DATA**

Report Date : 03-Jul-2000 11:24

61)
58904A
DB608

663 317

STL-PITTSBURGH

COMPOUND LISTING

Method file : /var/chem/gc4.i/4030-G.b/PESTA.m
Quant Method : ESTD Target Version : 3.40
Last Update : 03-Jul-2000 11:23 Number of CpnDs : 31
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
-----	-----
Initial:Start Threshold	40.000000
Initial:End Threshold	20.000000
Initial:Area Threshold	1000.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	1.000000
Initial:Negative Peaks	ON
Initial:Tension	0.000000

Compound	RT	RT Window	RF
\$ 1 Tetrachloro-m-xylene	5.740	5.690-5.790	3.036e+06
2 Diallate A	7.007	6.957-7.057	1.303e+05
3 Diallate B	7.293	7.243-7.343	3.493e+04
4 HEXACHLOROBENZENE	7.453	7.403-7.503	4.890e+06
5 alpha-BHC	8.047	7.997-8.097	3.461e+06
6 gamma-BHC (Lindane)	9.467	9.417-9.517	3.050e+06
7 beta-BHC	9.747	9.697-9.797	1.706e+06
8 delta-BHC	11.173	11.123-11.223	3.131e+06
9 Chlordane	10.140	10.090-10.190	7.855e+04
	10.753	10.703-10.803	1.396e+05
	14.207	14.157-14.257	2.776e+05
	14.587	14.537-14.637	2.124e+05
10 Heptachlor	10.747	10.697-10.797	2.595e+06
11 Aldrin	11.893	11.843-11.943	2.472e+06
12 Heptachlor epoxide	13.773	13.723-13.823	2.535e+06
13 gamma-Chlordane	14.207	14.157-14.257	2.799e+06
14 alpha-Chlordane	14.587	14.537-14.637	2.903e+06
15 Endosulfan I	14.647	14.597-14.697	2.683e+06
16 4,4'-DDE	15.113	15.063-15.163	3.080e+06
17 Dieldrin	15.260	15.210-15.310	2.992e+06
18 Toxaphene	16.080	16.030-16.130	3.585e+04
	16.240	16.190-16.290	5.010e+04
	16.633	16.583-16.683	3.700e+04
	17.880	17.830-17.930	3.872e+04

Report Date : 03-Jul-2000 11:24

611
58904A
DB608

663 318

STL-PITTSBURGH

COMPOUND LISTING

Method file : /var/chem/gc4.i/4030-G.b/PESTA.m

Compound	RT	RT Window	RF
19 Isodrin	13.420	13.370-13.470	2.246e+06
20 Endrin	15.900	15.850-15.950	2.483e+06
21 4,4'-DDD	16.060	16.010-16.110	2.635e+06
22 Endosulfan II	16.207	16.157-16.257	2.758e+06
23 4,4'-DDT	16.587	16.537-16.637	2.437e+06
24 Endrin aldehyde	16.800	16.750-16.850	2.081e+06
25 Methoxychlor	18.427	18.377-18.477	1.059e+06
26 Endosulfan sulfate	17.040	16.990-17.090	2.199e+06
27 Endrin ketone	18.873	18.823-18.923	2.181e+06
28 MIREX	18.840	18.790-18.890	1.574e+06
29 Kepone	16.020	15.970-16.070	2.377e+04
58 CHLOROBENZILATE	15.707	15.657-15.757	5.332e+05
\$ 30 Decachlorobiphenyl	22.807	22.757-22.857	1.568e+06

Report Date : 28-Jun-2000 17:41

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663 319

STL-PITTSBURGH

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2000 12:13
End Cal Date : 28-JUN-2000 17:01
Quant Method : ESTD
Origin : Disabled
Target Version : 3.40
Integrator : Falcon
Method file : /var/chem/gc4.i/3270-G.b/PESTA.m
Cal Date : 28-Jun-2000 17:40 g
Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gc4.i/3270-G.b/d-a3666.d
Level 2: /var/chem/gc4.i/3270-G.b/d-a3667.d
Level 3: /var/chem/gc4.i/3270-G.b/d-a3668.d
Level 4: /var/chem/gc4.i/3270-G.b/d-a3669.d
Level 5: /var/chem/gc4.i/3270-G.b/d-a3670.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRP	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
2 Diallyl A	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Diallyl B	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 HEXACHLOROBENZENE	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 alpha-BHC	3110800	3248500	3450840	3708000	3786540	3460936	8.360
6 gamma-BHC (Lindane)	2861600	2906700	3043960	3185980	3251870	3050022	5.567
7 beta-BHC	1744200	1813000	1674080	1702640	1596760	1706136	4.714
8 delta-BHC	2690200	2981500	3076480	3457120	3451310	3131322	10.453
9 Chlordane(1)	+++++	+++++	78548	+++++	+++++	78548	0.000
(2)	+++++	+++++	139620	+++++	+++++	139620	0.000
(3)	+++++	+++++	277620	+++++	+++++	277620	0.000
(4)	+++++	+++++	212352	+++++	+++++	212352	0.000
10 Heptachlor	2564000	2547900	2517440	2631080	2715680	2595220	3.050
11 Aldrin	2229000	2396400	2377320	2664840	2694880	2472488	8.104
12 Heptachlor epoxide	2310200	2487000	2464240	2715980	2697240	2534932	6.745
13 gamma-Chlordane	2574200	2774600	2734040	2966160	2945840	2798968	5.785
14 alpha-Chlordane	2757800	2924100	2821600	3045040	2966400	2902988	3.941
15 Endosulfan I	2621000	2627000	2597200	2747940	2820440	2682716	3.607
16 4,4'-DDP	2714800	2952900	3017040	3371780	3345460	3080396	9.024
17 Dieldrin	2670800	2969500	2905000	3139360	3274530	2991838	7.709
18 Toxaphene(1)	+++++	+++++	35852	+++++	+++++	35852	0.000
(2)	+++++	+++++	50096	+++++	+++++	50096	0.000
(3)	+++++	+++++	37004	+++++	+++++	37004	0.000
(4)	+++++	+++++	38718	+++++	+++++	38718	0.000
19 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Endrin	2399400	2717800	2264840	2409440	2623210	2482938	7.393
21 4,4'-DDD	2491400	2830700	2532080	2613940	2707200	2635064	5.202

Report Date : 28-Jun-2000 17:41

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663 320

STL-PITTSBURGH

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2000 12:13
End Cal Date : 28-JUN-2000 17:01
Quant Method : ESTD
Origin : Disabled
Target Version : 3.40
Integrator : Falcon
Method file : /var/chem/gc4.i/3270-G.b/PESTA.m
Cal Date : 28-Jun-2000 17:40 g
Curve Type : Average

	0.00500	0.01000	0.02500	0.05000	0.10000		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRP	% RSD
22 Endosulfan II	2538000	2714000	2659560	2954320	2924960	2758168	6.446
23 4,4'-DDT	2224200	2509900	2357120	2479900	2613800	2436984	6.158
24 Endrin aldehyde	2006800	2118700	2028520	2148440	2100140	2080520	2.903
25 Methoxychlor	1045200	1053000	1048600	1059840	1086520	1058632	1.561
26 Endosulfan sulfate	2018800	2150800	2129800	2341500	2353250	2198830	6.578
27 Endrin ketone	2001400	2142400	2125840	2322320	2314460	2181284	6.260
28 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 1 Tetrachloro-m-xylene	3291600	3201400	3003240	2921380	2763670	3036258	7.007
\$ 30 Decachlorobiphenyl	1656200	1640300	1561200	1516900	1467580	1568436	5.115

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

663 321

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: SDGA18738

GC Column: DB608

ID: 0.53

(mm) Init. Calib. Date(s): 06/28/00 06/28/00

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM): _____

Date Analyzed : 06/28/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 1147

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	15.93	15.87	15.97	0.02281	0.02500	-8.8
4,4'-DDT	16.61	16.56	16.66	0.02413	0.02500	-3.5

4,4'-DDT % breakdown (1): 0.00

Endrin % breakdown (1): ~~14.15~~
11.7

Combined % breakdown (1): ~~14.15~~ 11.7

m u / 28 / 00

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

663 322

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STL-PIT

Case No.:

SAS No.: 40325

SDG No.: SDGA18738

GC Column: DB608

ID: 0.53

(mm)

Init. Calib. Date(s): 06/28/00 06/28/00

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 06/28/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 1819

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	15.92	15.87	15.97	0.02324	0.02500	-7.0
4,4'-DDT	16.61	16.56	16.66	0.02421	0.02500	-3.2

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

~~3.47~~ 3.7

Endrin % breakdown (1):

~~15.84~~

Combined % breakdown (1):

~~19.32~~ 16.4

12.7

Lm
6/29/00

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

663 323

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: SDGA18738

GC Column: DB608

ID: 0.53 (mm) Init. Calib. Date(s): 06/28/00 06/29/00

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 07/03/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 0852

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	15.90	15.85	15.95	0.02480	0.02500	-0.8
4,4'-DDT	16.59	16.54	16.64	0.02575	0.02500	3.0

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

~~5.88~~ 5.8

Endrin % breakdown (1):

~~16.76~~

Combined % breakdown (1):

~~22.64~~

18.4

12.6

LM
7/3/00

Data File: /var/chem/gc4.i/4030-G.b/d-a3784.d
 Report Date: 03-Jul-2000 11:23

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663 324

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 03-JUL-2000 09:18
 Lab File ID: d-a3784.d Init. Calibration Date(s): 06/28/0 06/29/0
 Analysis Type: Init. Calibration Times: 12:13 20:25
 Lab Sample ID: MEDTOX Method File: /var/chem/gc4.i/4030-G.b/PESTA.m
 Quant Type: ESTD

COMPOUND	RRF	RF0	MIN	MAX
18 Toxaphene(1)	35852.000	37743.000	0.010	-5.3 15.0
(2)	50096.000	52701.000	0.010	-5.2 15.0
(3)	37004.000	39255.000	0.010	-6.1 15.0
(4)	38718.000	41394.000	0.010	-6.9 15.0
\$ 1 Tetrachloro-m-xylene	3036258.000	3186240.000	0.000	-4.9 15.0
\$ 30 Decachlorobiphenyl	1568436.000	1597400.000	0.010	-1.8 15.0

Data File: \var\chem\gc4.i\4030-G.b\d-a3785.d
Report Date: 03-Jul-2000 11:23

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DAB08

663 325

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: d-a3785.d
Analysis Type:
Lab Sample ID: MEDCHLOR
Quant Type: ESTD

Injection Date: 03-JUL-2000 09:45
Init. Calibration Date(s): 06/28/0 06/29/0
Init. Calibration Times: 12:13 20:25
Method File: /var/chem/gc4.i/4030-G.b/PESTA.m

COMPOUND	RRF	RFO	MIN		MAX
-----	-----	-----	-----	-----	-----
9 Chlordane(1)	78548.000	86628.000	0.010	-10.3	15.0
(2)	139620.000	152852.000	0.010	-9.5	15.0
(3)	277620.000	297980.000	0.010	-7.3	15.0
(4)	212352.000	225932.000	0.010	-6.4	15.0
\$ 1 Tetrachloro-m-xylene	3036258.000	3263640.000	0.000	-7.5	15.0
\$ 30 Decachlorobiphenyl	1568436.000	1677840.000	0.010	-7.0	15.0

Data File: /var/chem/gc4.i/4030-G.b/d-a3786.d
Report Date: 03-Jul-2000 11:23

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06608

663 326

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: d-a3786.d
Analysis Type:
Lab Sample ID: MEDA
Quant Type: ESTD

Injection Date: 03-JUL-2000 10:11
Init. Calibration Date(s): 06/28/0 06/29/0
Init. Calibration Times: 12:13 20:25
Method File: /var/chem/gc4.i/4030-G.b/PESTA.m

COMPOUND	RRP	RPO	MIN RRP	%D	MAX %D
1 Tetrachloro-m-xylene	3036258.000	3243360.000	0.000	-6.8	15.0
5 alpha-BHC	3460936.000	3786680.000	0.010	-9.4	15.0
6 gamma-BHC (Lindane)	3050022.000	3378240.000	0.010	-10.8	15.0
10 Heptachlor	2595220.000	2729400.000	0.010	-5.2	15.0
15 Endosulfan I	2682716.000	2739600.000	0.010	-2.1	15.0
17 Dieldrin	2991838.000	3064040.000	0.010	-2.4	15.0
20 Endrin	2482938.000	2421920.000	0.010	2.5	15.0
21 4,4'-DDD	2635064.000	2665600.000	0.010	-1.2	15.0
23 4,4'-DDT	2436984.000	2482240.000	0.010	-1.9	15.0
25 Methoxychlor	1058632.000	1068160.000	0.010	-0.9	15.0
30 Decachlorobiphenyl	1568436.000	1653720.000	0.010	-5.4	15.0

Data File: /var/chem/gc4.i/4030-G.b/d-a3787.d
Report Date: 03-Jul-2000 11:23

58904A
10608

663 327

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: d-a3787.d
Analysis Type:
Lab Sample ID: MEDB
Quant Type: ESTD

Injection Date: 03-JUL-2000 10:37
Init. Calibration Date(s): 06/28/0 06/29/0
Init. Calibration Times: 12:13 20:25
Method File: /var/chem/gc4.i/4030-G.b/PESTA.m

COMPOUND	RRP	RFO	MIN RRP	MAX RD	MAX RD
11 Aldrin	2472488.000	2570040.000	0.010	-3.9	15.0
7 beta-BHC	1706136.000	1847520.000	0.010	-8.3	15.0
8 delta-BHC	3131322.000	3356200.000	0.010	-7.2	15.0
12 Heptachlor epoxide	2534932.000	2630680.000	0.010	-3.8	15.0
13 gamma-Chlordane	2798968.000	2889040.000	0.010	-3.2	15.0
14 alpha-Chlordane	2902988.000	2995320.000	0.010	-3.2	15.0
16 4,4'-DDE	3080396.000	3154360.000	0.010	-2.4	15.0
22 Endosulfan II	2758168.000	2819400.000	0.010	-2.2	15.0
24 Endrin aldehyde	2080520.000	2154760.000	0.010	-3.6	15.0
26 Endosulfan sulfate	2198830.000	2218480.000	0.010	-0.9	15.0
27 Endrin ketone	2181284.000	2292880.000	0.010	-5.1	15.0

Data File: /var/chem/gc4.i/4030-G.b/d-a3808.d
Report Date: 05-Jul-2000 08:44

58904A
DB008

663 328

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: d-a3808.d
Analysis Type:
Lab Sample ID: MEDA
Quant Type: ESTD

Injection Date: 03-JUL-2000 19:45
Init. Calibration Date(s): 06/28/0 06/29/0
Init. Calibration Times: 12:13 20:25
Method File: /var/chem/gc4.i/4030-G.b/PESTA.m

COMPOUND	RRF	RPO	MIN RRF	%D	MAX %D
1 Tetrachloro-m-xylene	3036258.000	3232600.000	0.000	-6.5	15.0
5 alpha-BHC	3460936.000	3765120.000	0.010	-8.8	15.0
6 gamma-BHC (Lindane)	3050022.000	3387000.000	0.010	-11.0	15.0
10 Heptachlor	2595220.000	2729160.000	0.010	-5.2	15.0
15 Endosulfan I	2682716.000	2795240.000	0.010	-4.2	15.0
17 Dieldrin	2991838.000	3118680.000	0.010	-4.2	15.0
20 Endrin	2482938.000	2550640.000	0.010	-2.7	15.0
21 4,4'-DDD	2635064.000	2685560.000	0.010	-1.9	15.0
23 4,4'-DDT	2436984.000	2505920.000	0.010	-2.8	15.0
25 Methoxychlor	1058632.000	1116020.000	0.010	-5.4	15.0
30 Decachlorobiphenyl	1568436.000	1688800.000	0.010	-7.7	15.0

Data File: /var/chem/gc4.i/4030-G.b/d-a3809.d
Report Date: 05-Jul-2000 08:44

12
58904A
06608

663 329

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: d-a3809.d
Analysis Type:
Lab Sample ID: MEDB
Quant Type: ESTD

Injection Date: 03-JUL-2000 20:11
Init. Calibration Date(s): 06/28/0 06/29/0
Init. Calibration Times: 12:13 20:25
Method File: /var/chem/gc4.i/4030-G.b/PESTA.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
11 Aldrin	2472488.000	2531560.000	0.010	-2.4	15.0
7 beta-BHC	1706136.000	1822600.000	0.010	-6.8	15.0
8 delta-BHC	3131322.000	3323920.000	0.010	-6.2	15.0
12 Heptachlor epoxide	2534932.000	2633160.000	0.010	-3.9	15.0
13 gamma-Chlordane	2798968.000	2903240.000	0.010	-3.7	15.0
14 alpha-Chlordane	2902988.000	3000880.000	0.010	-3.4	15.0
16 4,4'-DDE	3080396.000	3238760.000	0.010	-5.1	15.0
22 Endosulfan II	2758168.000	2923400.000	0.010	-6.0	15.0
24 Endrin aldehyde	2080520.000	2157920.000	0.010	-3.7	15.0
26 Endosulfan sulfate	2198830.000	2309640.000	0.010	-5.0	15.0
27 Endrin ketone	2181284.000	2320760.000	0.010	-6.4	15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

663 330

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0F300207

GC Column: DB608

ID: 0.53 (mm) Init. Calib. Date(s): 06/28/00 06/28/00

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
TCX: 5.77			DCB: 22.87		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	EVALB	06/28/00	1147	5.77	22.87
02	MEDTOX	06/28/00	1213	5.77	22.87
03	MEDCHLOR	06/28/00	1239	5.77	22.87
04	LOWA	06/28/00	1305	5.77	22.87
05	MLOWA	06/28/00	1332	5.77	22.87
06	MEDA	06/28/00	1358	5.77	22.87
07	MHIGHA	06/28/00	1424	5.77	22.87
08	HIGHA	06/28/00	1450	5.77	22.87
09	LOWB	06/28/00	1516		
10	MLOWB	06/28/00	1542		
11	MEDB	06/28/00	1608		
12	MHIGHB	06/28/00	1635		
13	HIGHB	06/28/00	1701		
14	2ND A	06/28/00	1727	5.77	22.87
15	2ND B	06/28/00	1753		
16	EVALB	06/28/00	1819	5.77	22.87
17	EVALB	07/03/00	0852	5.74	22.81*
18	MEDTOX	07/03/00	0918	5.74	22.81*
19	MEDCHLOR	07/03/00	0945	5.74	22.81*
20	MEDA	07/03/00	1011	5.74	22.81*
21	MEDEB	07/03/00	1037		
22	DF/SI/0181/I DFKQ3103	07/03/00	1406	5.73	22.79*
23	PBLK1 DFN8M101	07/03/00	1432	5.73	22.80*
24	LCS1 DFN8M102	07/03/00	1458	5.73	22.80*
25	LCD1 DFN8M103	07/03/00	1524	5.73	22.79*
26	MEDA	07/03/00	1945	5.73	22.79*
27	MEDEB	07/03/00	2011		
28					
29					
30					
31					
32					

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

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

Data File: /var/chem/gc4.i/3270-G.b/d-a3658.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3658.d
 Lab Smp Id: EVALB
 Inj Date : 28-JUN-2000 11:47
 Operator : 1891
 Smp Info : EVALB,3270-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 17:01
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

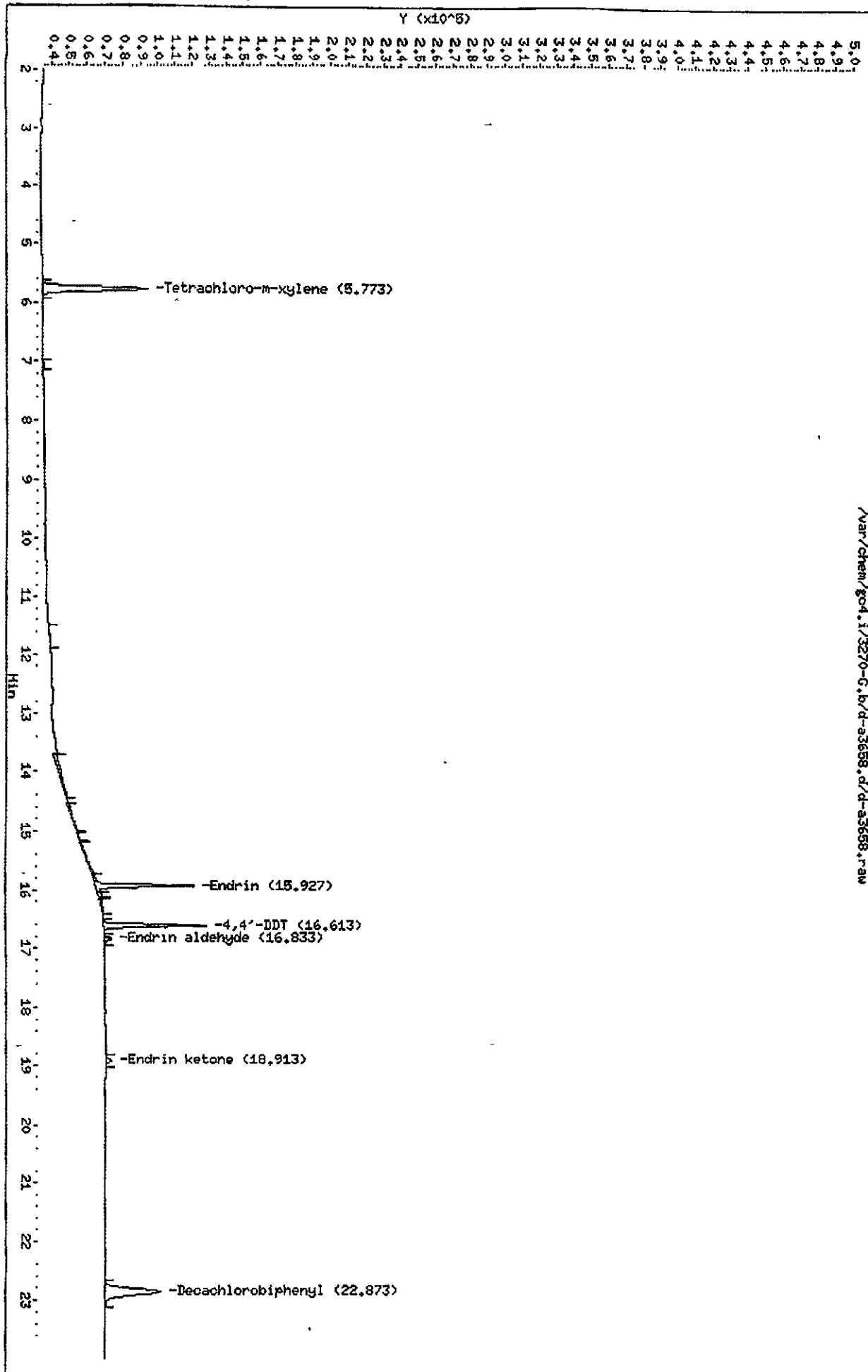
Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3670.d
 QC Sample: PEM
 Compound Sublist: EVALBR.sub

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.773	5.767	0.006	60071	0.01978	0.01978(R)
16 4,4'-DDE	Compound Not Detected.					
20 Endrin	15.927	15.920	0.007	56643	0.02281	0.02281
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	16.613	16.607	0.006	58803	0.02413	0.02413
24 Endrin aldehyde	16.833	16.827	0.006	4108	0.00197	0.001974
27 Endrin ketone	18.913	18.913	0.000	3409	0.00156	0.001563
\$ 30 Decachlorobiphenyl	22.873	22.873	0.000	31537	0.02011	0.02011(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT=0
 Endrin=11.7



Data File: /var/chem/gc04.i/3270-G.b/d-a3658.d
Date: 28-JUN-2000 11:47
Client ID:
Sample Info: EVALB,3270-G.b, EVALBR.sub,3,1
Column Phase: DB608

Instrument: gc04.i
Operator: 1891
Column diameter: 0.53

Data File: /var/chem/gc4.i/3270-G.b/d-a3659.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

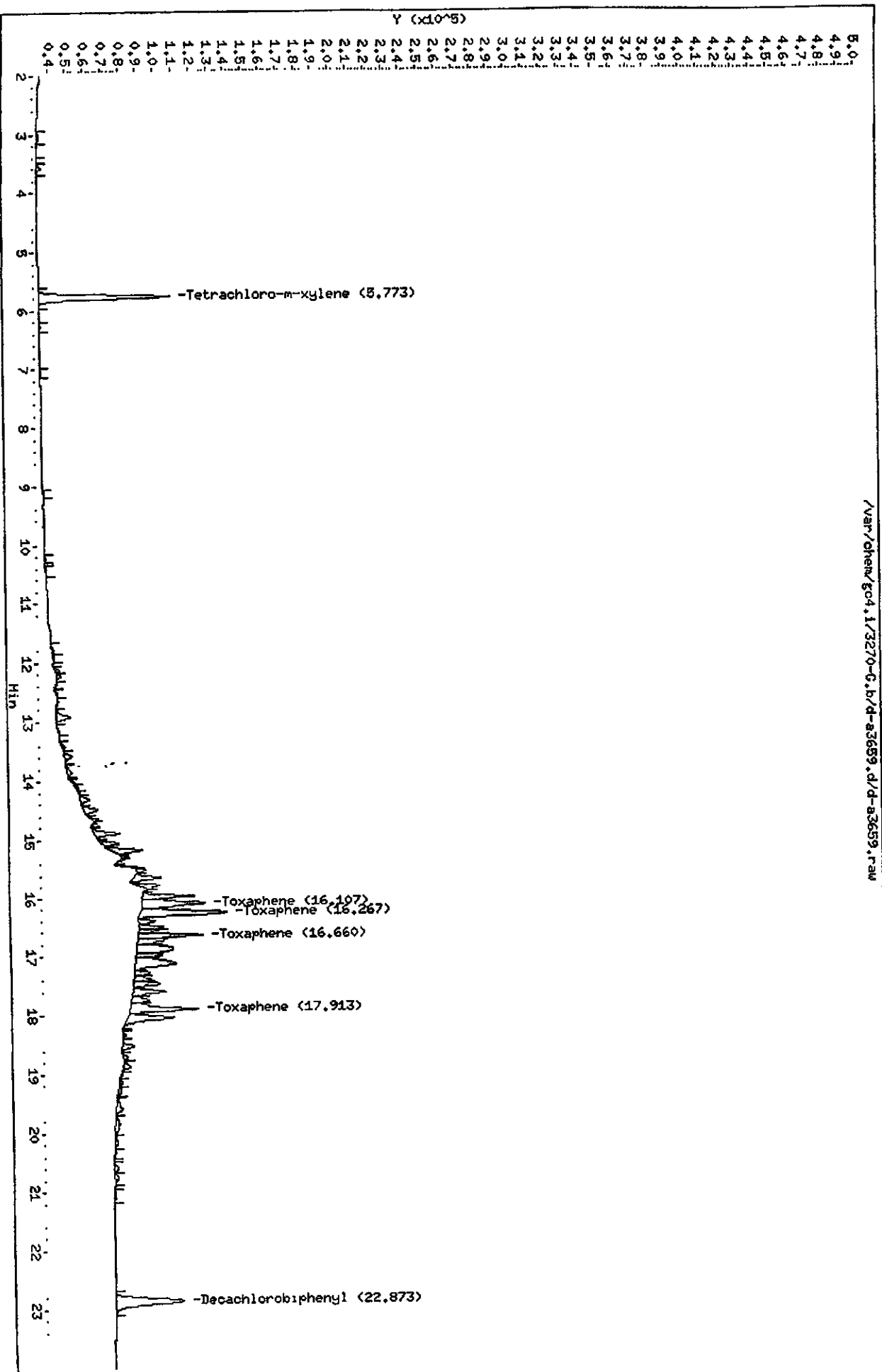
Data file : /var/chem/gc4.i/3270-G.b/d-a3659.d
 Lab Smp Id: MEDTOX
 Inj Date : 28-JUN-2000 12:13
 Operator : 1891
 Smp Info : MEDTOX,3270-G.b,,1-TOX.sub,,1,3
 Misc Info : 190-84-13
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 12:13
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3659.d
 Calibration Sample, Level: 3
 Compound Sublist: 1-TOX.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
18 Toxaphene	16.107	16.107	0.000	35852	1.00000	1.000
\$ 1 Tetrachloro-m-xylene	5.773	5.767	0.006	74380	0.02500	0.02500
\$ 30 Decachlorobiphenyl	22.873	22.873	0.000	38535	0.02500	0.02500

Data File: /var/chem/gc4.1/3270-G.b/d-d-a3659.d
Date: 28-JUN-2000 12:13
Client ID:
Sample Info: HEDTOX, 3270-G.b, 1-TOX, sub, 1,3
Column phase: DB608

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3660.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3660.d
 Lab Smp Id: MEDCHLOR
 Inj Date : 28-JUN-2000 12:39
 Operator : 1891
 Smp Info : MEDCHLOR, 3270-G.b, , 2-CHLO.sub, , 1, 3
 Misc Info : 190-85-10
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 12:39
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3660.d
 Calibration Sample, Level: 3
 Compound Sublist: 2-CHLO.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
9 Chlordane	10.187	10.187	0.000	19637	0.25000	0.2500
\$ 1 Tetrachloro-m-xylene	5.773	5.767	0.006	75081	0.02500	0.02500
\$ 30 Decachlorobiphenyl	22.873	22.873	0.000	39328	0.02500	0.02500

Data File: /var/chem/gc04.1/3270-G.b/d-a3660.d

Date: 28-JUN-2000 12:39

Client ID:

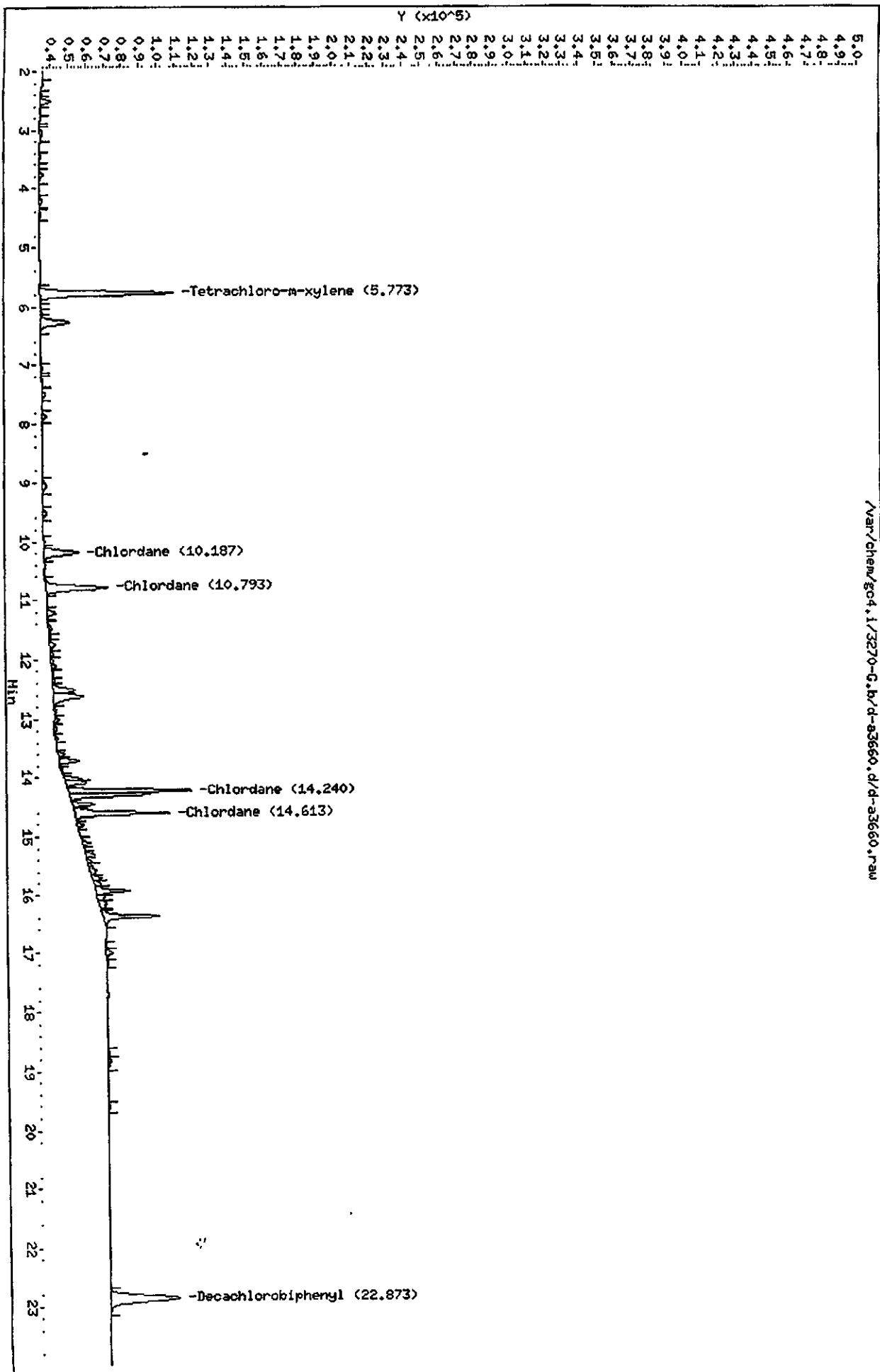
Sample Info: HEDCHLOR, 3270-G.b., 2-CHLO, sub, 1,3

Column phase: DB608

Instrument: gc04.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3661.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3661.d
 Lab Smp Id: LOWA
 Inj Date : 28-JUN-2000 13:05
 Operator : 1891
 Smp Info : LOWA,3270-G.b,,3-INDA.sub,,1,1
 Misc Info : 190-84-1
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 16:08
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3668.d
 Calibration Sample, Level: 1
 Compound Sublist: 3-INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.767	5.767	0.000	16458	0.00500	0.005229
5 alpha-BHC	8.080	8.087	-0.007	15554	0.00500	0.004741
6 gamma-BHC (Lindane)	9.507	9.513	-0.006	14308	0.00500	0.004846
10 Heptachlor	10.787	10.793	-0.006	12820	0.00500	0.005046
15 Endosulfan I	14.667	14.673	-0.006	13105	0.00500	0.005023
17 Dieldrin	15.287	15.287	0.000	13354	0.00500	0.004790
20 Endrin	15.920	15.920	0.000	11997	0.00500	0.005144
21 4,4'-DDD	16.080	16.080	0.000	12457	0.00500	0.004960
23 4,4'-DDT	16.607	16.607	0.000	11121	0.00500	0.004855
25 Methoxychlor	18.460	18.460	0.000	10452	0.01000	0.009984
\$ 30 Decachlorobiphenyl	22.873	22.873	0.000	8281	0.00500	0.005148

Data File: /var/chem/gc04.1/3270-G.b/d-a3661.d

Date: 28-JUN-2000 13:05

Client ID:

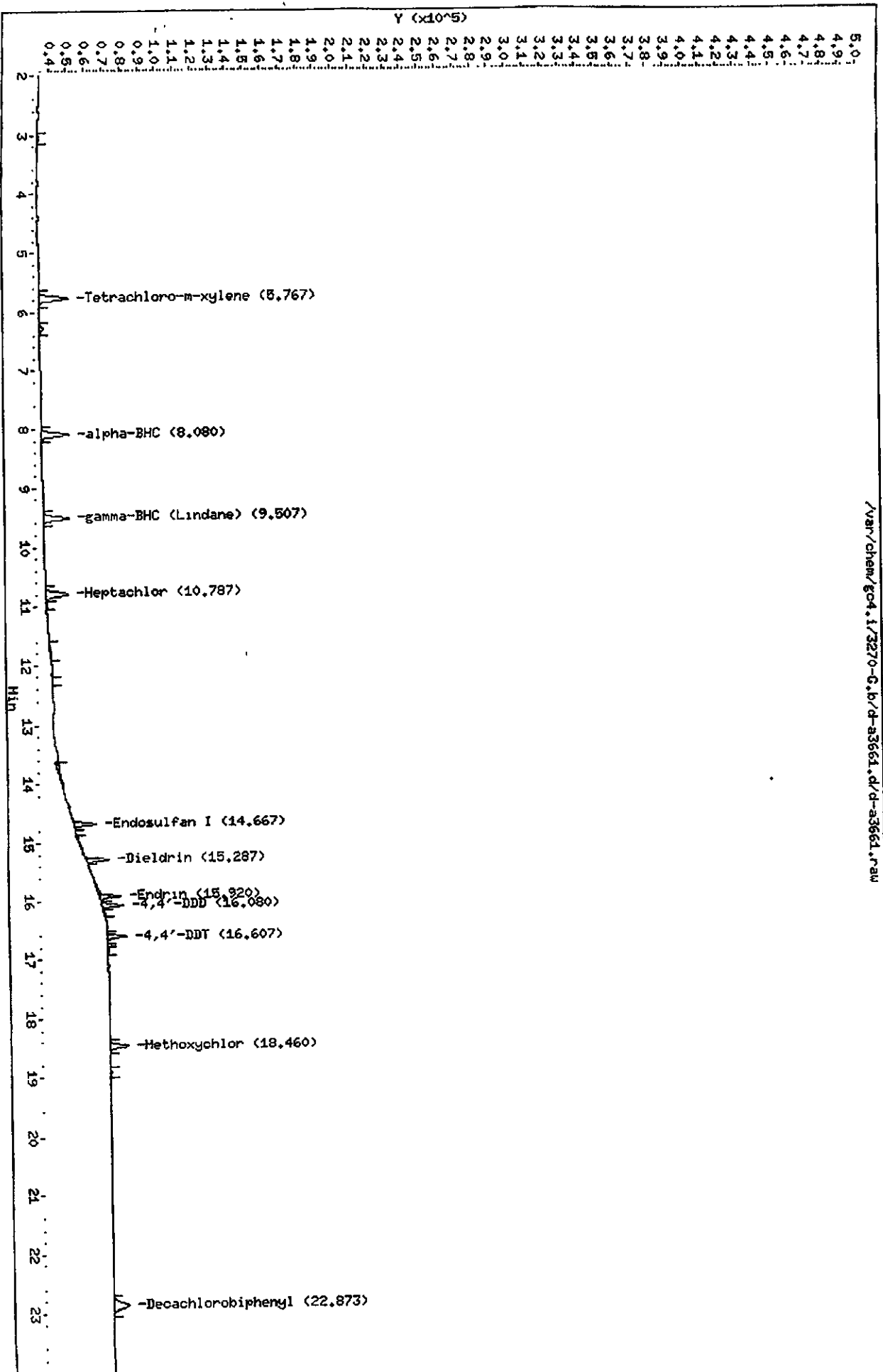
Sample Info: LOMR, 3270-G.b, 3-INDR.sub, 1.1

Column phase: DB608

Instrument: gc04.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3662.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

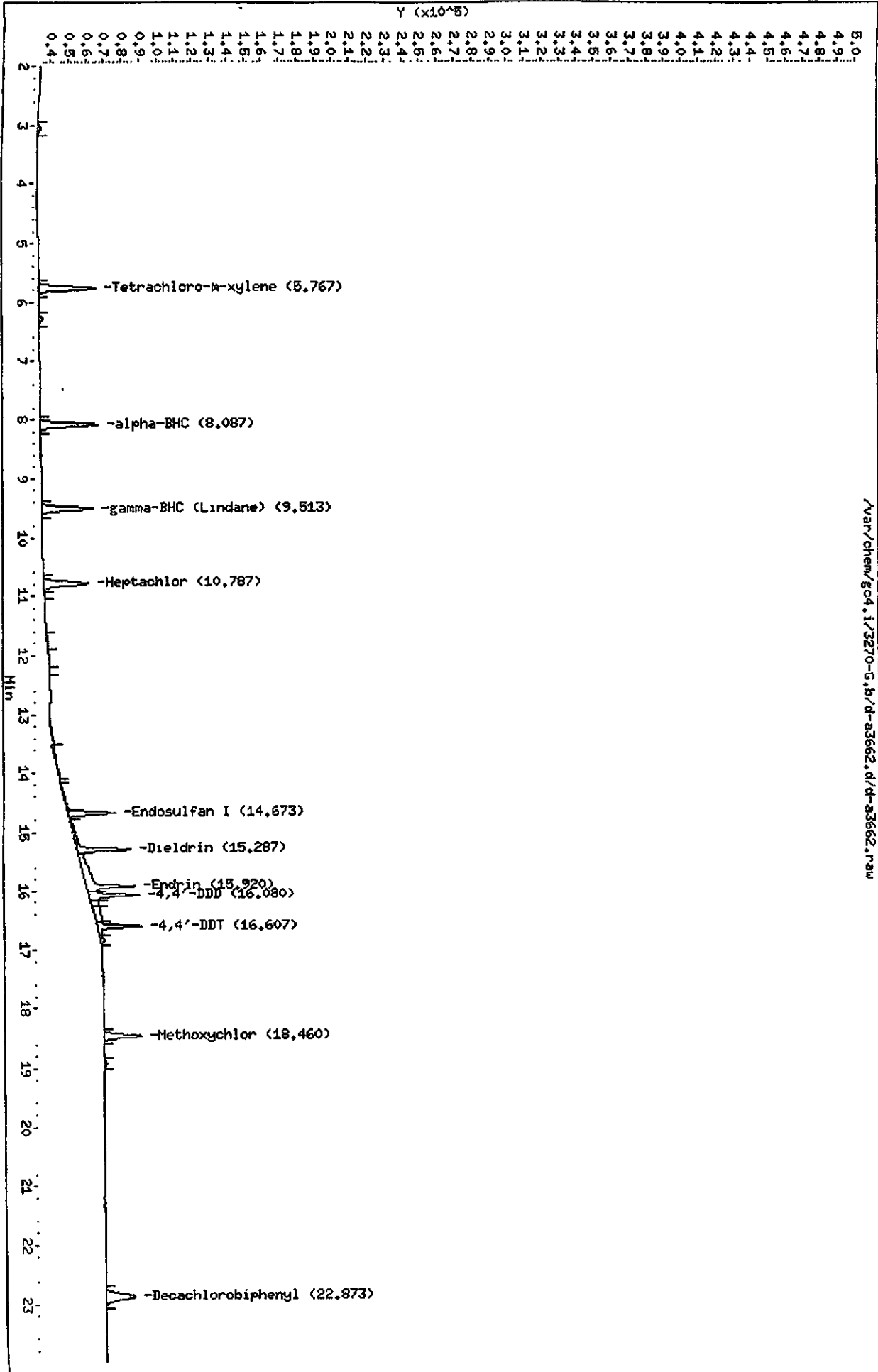
Data file : /var/chem/gc4.i/3270-G.b/d-a3662.d
 Lab Smp Id: MLOWA
 Inj Date : 28-JUN-2000 13:32
 Operator : 1891
 Smp Info : MLOWA,3270-G.b,,3-INDA.sub,,1,2
 Misc Info : 190-84-2
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 16:08
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3668.d
 Calibration Sample, Level: 2
 Compound Sublist: 3-INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.767	5.767	0.000	32014	0.01000	0.01011
5 alpha-BHC	8.087	8.087	0.000	32485	0.01000	0.009934
6 gamma-BHC (Lindane)	9.513	9.513	0.000	29067	0.01000	0.009895
10 Heptachlor	10.787	10.793	-0.006	25479	0.01000	0.01002
15 Endosulfan I	14.673	14.673	0.000	26270	0.01000	0.01004
17 Dieldrin	15.287	15.287	0.000	29695	0.01000	0.01042
20 Endrin	15.920	15.920	0.000	27178	0.01000	0.01104
21 4,4'-DDD	16.080	16.080	0.000	28307	0.01000	0.01081
23 4,4'-DDT	16.607	16.607	0.000	25099	0.01000	0.01062
25 Methoxychlor	18.460	18.460	0.000	21060	0.02000	0.02008
\$ 30 Decachlorobiphenyl	22.873	22.873	0.000	16403	0.01000	0.01013

Data File: /var/chem/ec04.1/3270-G,b/d-a3662.d
Date: 28-JUN-2000 13:32
Client ID:
Sample Info: ML0M9,3270-G,b,3-INDA,sub,4,2
Column phase: DB608

Instrument: EC4.1
Operator: 1894
Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3663.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3663.d
 Lab Smp Id: MEDA
 Inj Date : 28-JUN-2000 13:58
 Operator : 1891
 Smp Info : MEDA,3270-G.b,,3-INDA.sub,,1,3
 Misc Info : 190-84-3
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 13:58
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3663.d
 Calibration Sample, Level: 3
 Compound Sublist: 3-INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.767	5.767	0.000	75081	0.02500	0.02500
5 alpha-BHC	8.087	8.087	0.000	86271	0.02500	0.02500
6 gamma-BHC (Lindane)	9.513	9.513	0.000	76099	0.02500	0.02500
10 Heptachlor	10.793	10.793	0.000	62936	0.02500	0.02500
15 Endosulfan I	14.673	14.673	0.000	64930	0.02500	0.02500
17 Dieldrin	15.287	15.287	0.000	72625	0.02500	0.02500
20 Endrin	15.920	15.920	0.000	56621	0.02500	0.02500
21 4,4'-DDD	16.080	16.080	0.000	63302	0.02500	0.02500
23 4,4'-DDT	16.607	16.607	0.000	58928	0.02500	0.02500
25 Methoxychlor	18.460	18.460	0.000	52430	0.05000	0.05000
\$ 30 Decachlorobiphenyl	22.873	22.873	0.000	39030	0.02500	0.02500

Data File: /var/chem/g04.1/3270-G.b/d-s3663.d

Date: 28-JUN-2000 13:58

Client ID:

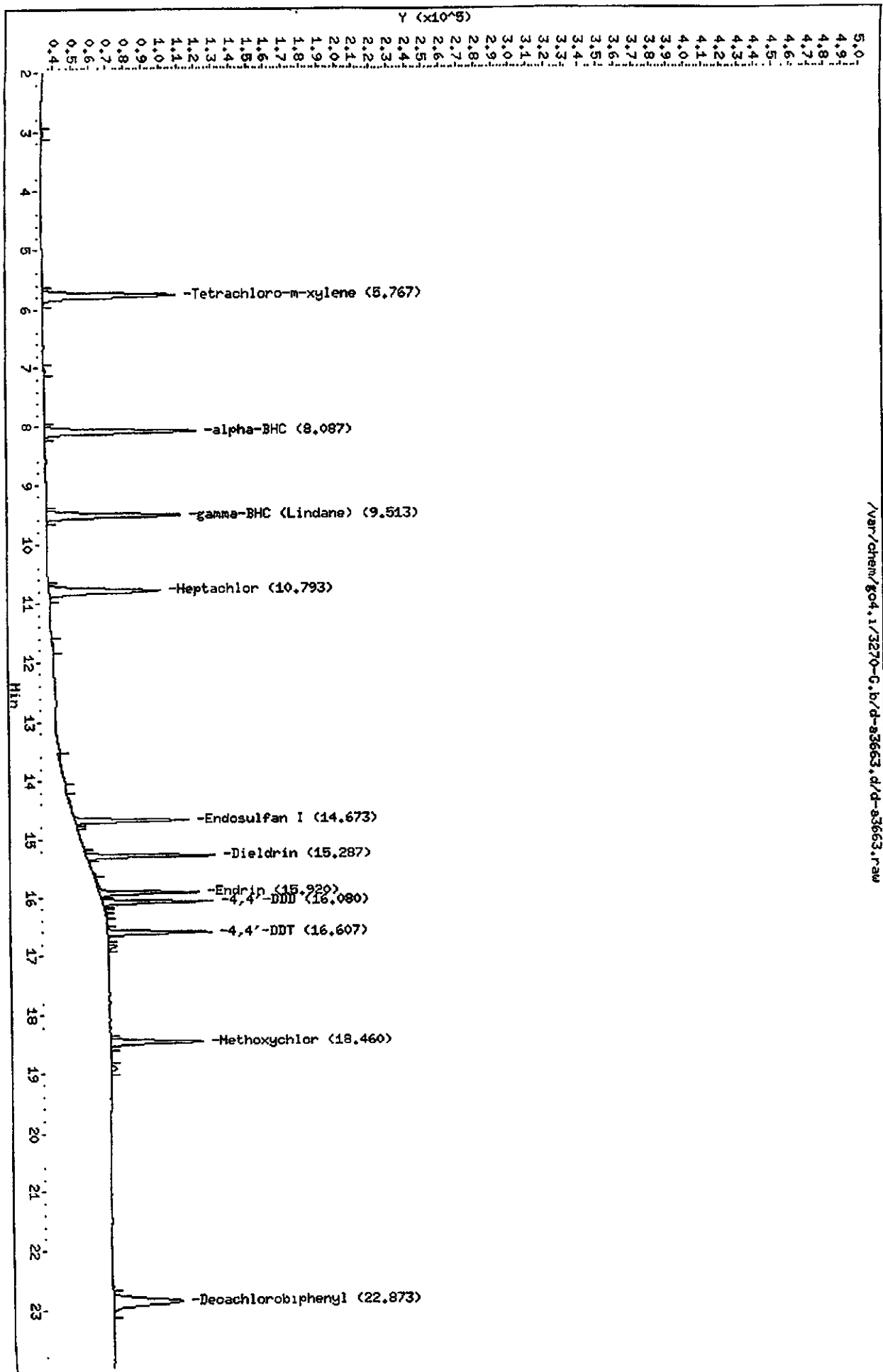
Sample Info: HED4,3270-G.b.,3-INDA,sub,1,3

Column phase: DB608

Instrument: g04.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3664.d
 Report Date: 28-Jun-2000 17:42

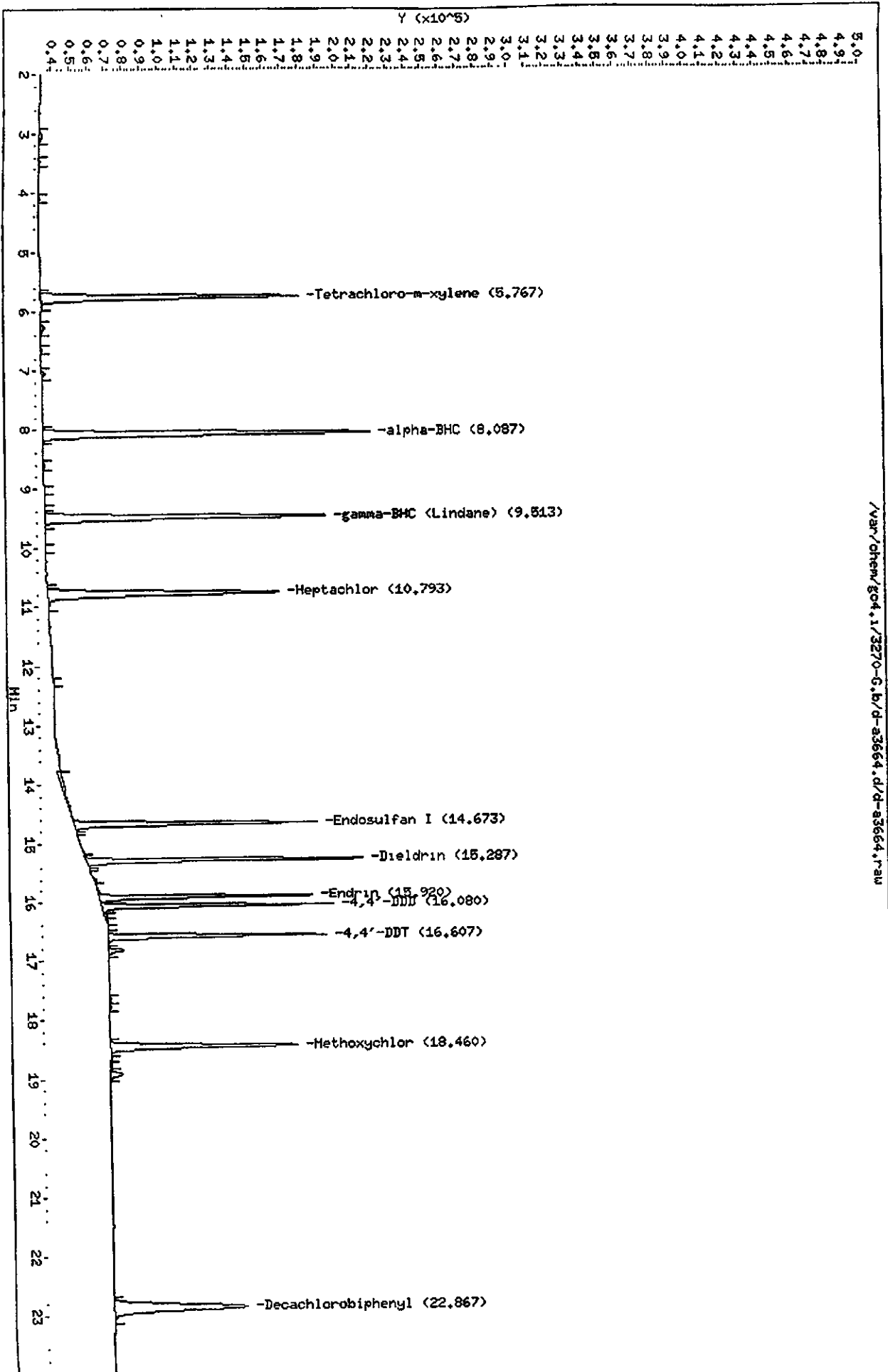
STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3664.d
 Lab Smp Id: MHIGHA
 Inj Date : 28-JUN-2000 14:24
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MHIGHA, 3270-G.b, , 3-INDA.sub, , 1, 4
 Misc Info : 190-84-4
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol Quant Type: ESTD
 Cal Date : 28-JUN-2000 16:08 Cal File: d-a3668.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 3.40

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
§ 1 Tetrachloro-m-xylene	5.767	5.767	0.000	146069	0.05000	0.04705
5 alpha-BHC	8.087	8.087	0.000	185400	0.05000	0.05486
6 gamma-BHC (Lindane)	9.513	9.513	0.000	159299	0.05000	0.05311
10 Heptachlor	10.793	10.793	0.000	131554	0.05000	0.05129
15 Endosulfan I	14.673	14.673	0.000	137397	0.05000	0.05188
17 Dieldrin	15.287	15.287	0.000	156968	0.05000	0.05373
20 Endrin	15.920	15.920	0.000	120472	0.05000	0.04922
21 4,4'-DDD	16.080	16.080	0.000	130697	0.05000	0.04994
23 4,4'-DDT	16.607	16.607	0.000	123995	0.05000	0.05182
25 Methoxychlor	18.460	18.460	0.000	105984	0.10000	0.1008
§ 30 Decachlorobiphenyl	22.867	22.873	-0.006	75845	0.05000	0.04759

Data File: /var/chem/gc04.1/3270-G.b/d-a3664.d
Date: 28-JUN-2000 14:24
Client ID:
Sample Info: HHIGH0,3270-G.b,3-INDA,sub,1,4
Column phase: DB608

Instrument: gc04.1
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3665.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3665.d
 Lab Smp Id: HIGHA
 Inj Date : 28-JUN-2000 14:50
 Operator : 1891
 Smp Info : HIGHA, 3270-G.b, , 3-INDA.sub, , 1, 5
 Misc Info : 190-84-5
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 16:08
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3668.d
 Calibration Sample, Level: 5
 Compound Sublist: 3-INDA.sub

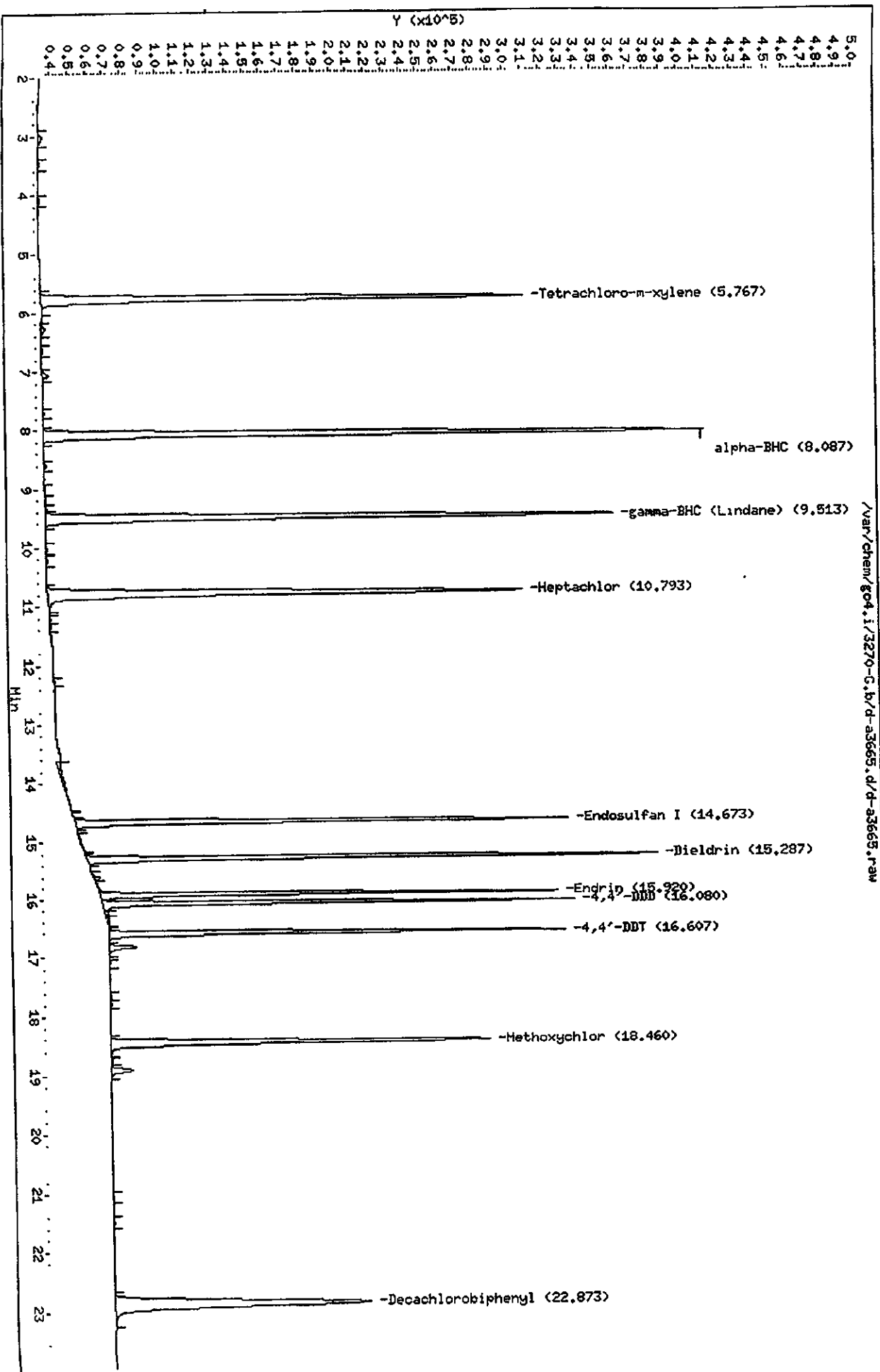
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.767	5.767	0.000	276367	0.10000	0.09102
5 alpha-BHC	8.087	8.087	0.000	378654	0.10000	0.1094 (A)
6 gamma-BHC (Lindane)	9.513	9.513	0.000	325187	0.10000	0.1066 (A)
10 Heptachlor	10.793	10.793	0.000	271568	0.10000	0.1046 (A)
15 Endosulfan I	14.673	14.673	0.000	282044	0.10000	0.1051 (A)
17 Dieldrin	15.287	15.287	0.000	327453	0.10000	0.1094 (A)
20 Endrin	15.920	15.920	0.000	262321	0.10000	0.1056 (A)
21 4,4'-DDD	16.080	16.080	0.000	270720	0.10000	0.1027 (A)
23 4,4'-DDT	16.607	16.607	0.000	261380	0.10000	0.1072 (A)
25 Methoxychlor	18.460	18.460	0.000	217304	0.20000	0.2053 (A)
\$ 30 Decachlorobiphenyl	22.873	22.873	0.000	146758	0.10000	0.09357

QC Flag Legend

A - Target compound detected but, quantitated amount
 exceeded maximum amount.

Data File: /var/chem/gc04.1/3270-G.b/d-a3665.d
Date: 28-JUN-2000 14:50
Client ID:
Sample Info: HIGH, 3270-G.b., 3-INDR, sub., 1.5
Column phase: DB608

Instrument: gc04.1
Operator: 1894
Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3666.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3666.d
 Lab Smp Id: LOWB
 Inj Date : 28-JUN-2000 15:16
 Operator : 1891
 Smp Info : LOWB,3270-G.b,,4-INDB.sub,,1,1
 Misc Info : 190-84-7
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 16:08
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3668.d
 Calibration Sample, Level: 1
 Compound Sublist: 4-INDB.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.933	11.933	0.000	11145	0.00500	0.004839
7 beta-BHC	9.787	9.787	0.000	8721	0.00500	0.005102
8 delta-BHC	11.213	11.213	0.000	13451	0.00500	0.004665
12 Heptachlor epoxide	13.807	13.807	0.000	11551	0.00500	0.004839
13 gamma-Chlordane	14.233	14.233	0.000	12871	0.00500	0.004849
14 alpha-Chlordane	14.613	14.607	0.006	13789	0.00500	0.004943
16 4,4'-DDE	15.133	15.133	0.000	13574	0.00500	0.004736
22 Endosulfan II	16.227	16.227	0.000	12690	0.00500	0.004883
24 Endrin aldehyde	16.827	16.827	0.000	10034	0.00500	0.004973
26 Endosulfan sulfate	17.067	17.067	0.000	10094	0.00500	0.004866
27 Endrin ketone	18.913	18.913	0.000	10007	0.00500	0.004849

Data File: /var/chem/ec04.1/3270-G.b/d-a3666.d

Date: 28-JUN-2000 15:16

Client ID:

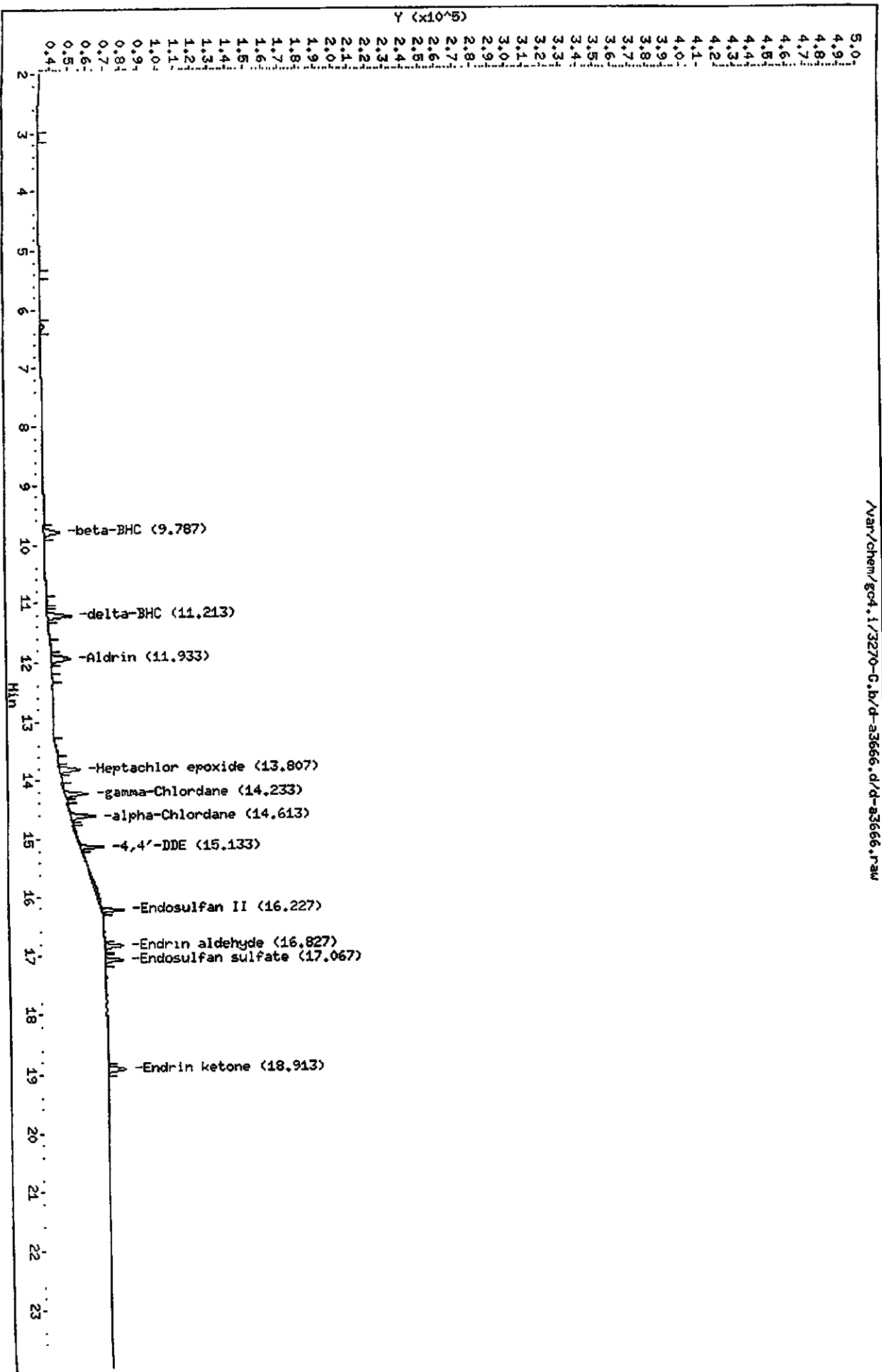
Sample Info: LOAB, 3270-G.b, 4-INDB, sub, 1.1

Column phase: DB608

Instrument: ec04.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3667.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3667.d
 Lab Smp Id: MLOWB
 Inj Date : 28-JUN-2000 15:42
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MLOWB, 3270-G.b, , 4-INDB.sub, , 1, 2
 Misc Info : 190-84-8
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol Quant Type: ESTD
 Cal Date : 28-JUN-2000 16:08 Cal File: d-a3668.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 3.40

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.933	11.933	0.000	23964	0.01000	0.01027
7 beta-BHC	9.787	9.787	0.000	18130	0.01000	0.01040
8 delta-BHC	11.213	11.213	0.000	29815	0.01000	0.01022
12 Heptachlor epoxide	13.807	13.807	0.000	24870	0.01000	0.01027
13 gamma-Chlordane	14.233	14.233	0.000	27746	0.01000	0.01030
14 alpha-Chlordane	14.607	14.607	0.000	29241	0.01000	0.01032
16 4,4'-DDE	15.133	15.133	0.000	29529	0.01000	0.01020
22 Endosulfan II	16.227	16.227	0.000	27140	0.01000	0.01029
24 Endrin aldehyde	16.827	16.827	0.000	21187	0.01000	0.01033
26 Endosulfan sulfate	17.067	17.067	0.000	21508	0.01000	0.01024
27 Endrin ketone	18.913	18.913	0.000	21424	0.01000	0.01025

Data File: /var/chem/gc4.1/3270-G.b/d-a3667.d

Date: 28-JUN-2000 15:42

Client ID:

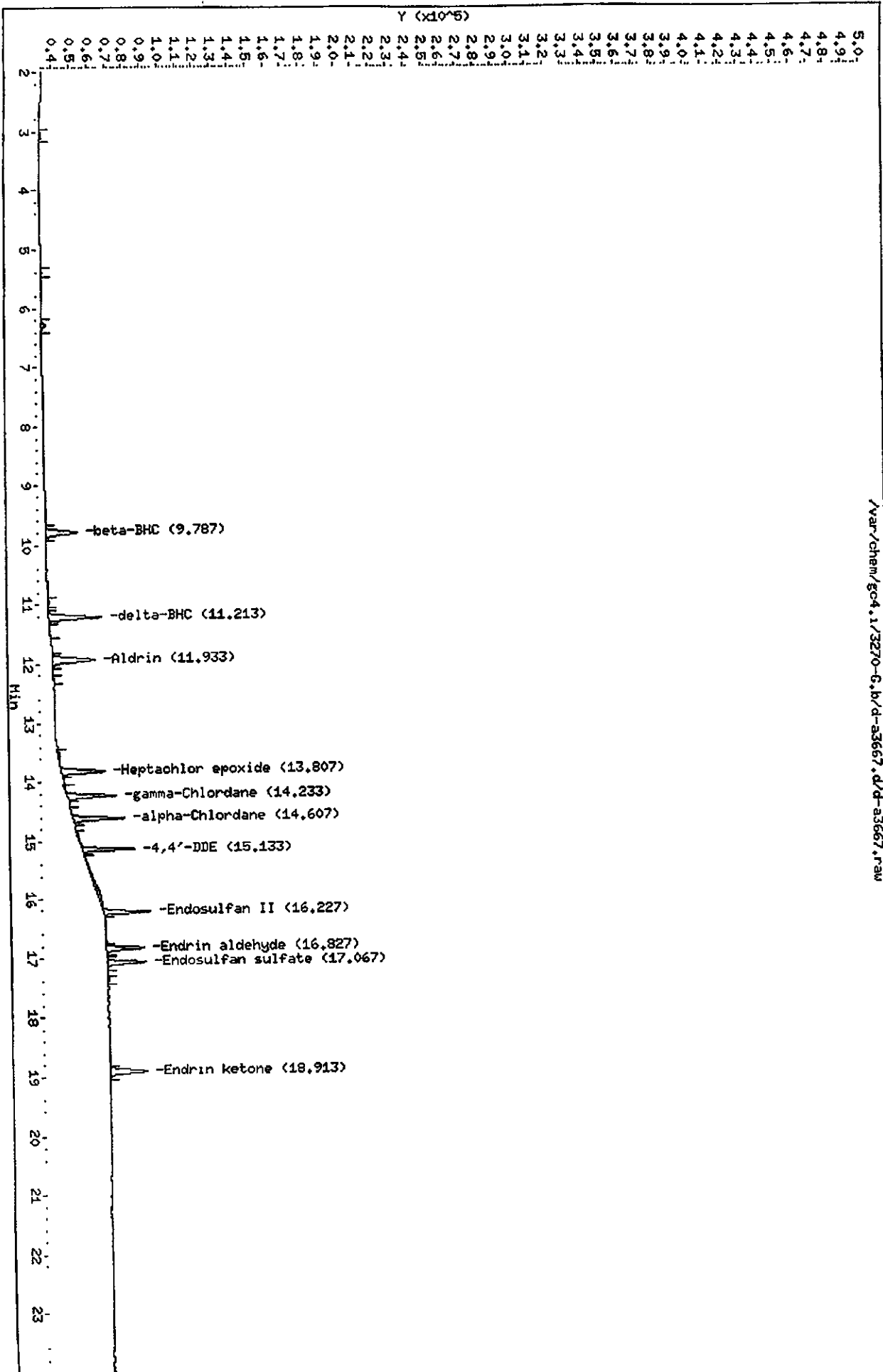
Sample Info: MLOMB,3270-G.b,,4-INDB,sub,,1,2

Column phase: DB608

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3668.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3668.d
 Lab Smp Id: MEDB
 Inj Date : 28-JUN-2000 16:08
 Operator : 1891
 Smp Info : MEDB,3270-G.b,,4-INDB.sub,,1,3
 Misc Info : 190-84-9
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 16:08
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3668.d
 Calibration Sample, Level: 3
 Compound Sublist: 4-INDB.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
11 Aldrin	11.933	11.933	0.000	59433	0.02500	0.02500
7 beta-BHC	9.787	9.787	0.000	41852	0.02500	0.02500
8 delta-BHC	11.213	11.213	0.000	76912	0.02500	0.02500
12 Heptachlor epoxide	13.807	13.807	0.000	61606	0.02500	0.02500
13 gamma-Chlordane	14.233	14.233	0.000	68351	0.02500	0.02500
14 alpha-Chlordane	14.607	14.607	0.000	70540	0.02500	0.02500
16 4,4'-DDB	15.133	15.133	0.000	75426	0.02500	0.02500
22 Endosulfan II	16.227	16.227	0.000	66489	0.02500	0.02500
24 Endrin aldehyde	16.827	16.827	0.000	50713	0.02500	0.02500
26 Endosulfan sulfate	17.067	17.067	0.000	53245	0.02500	0.02500
27 Endrin ketone	18.913	18.913	0.000	53146	0.02500	0.02500

Data File: /var/chem/gc04.1/3270-G.b/d-a3668.d

Date: 28-JUN-2000 16:08

Client ID:

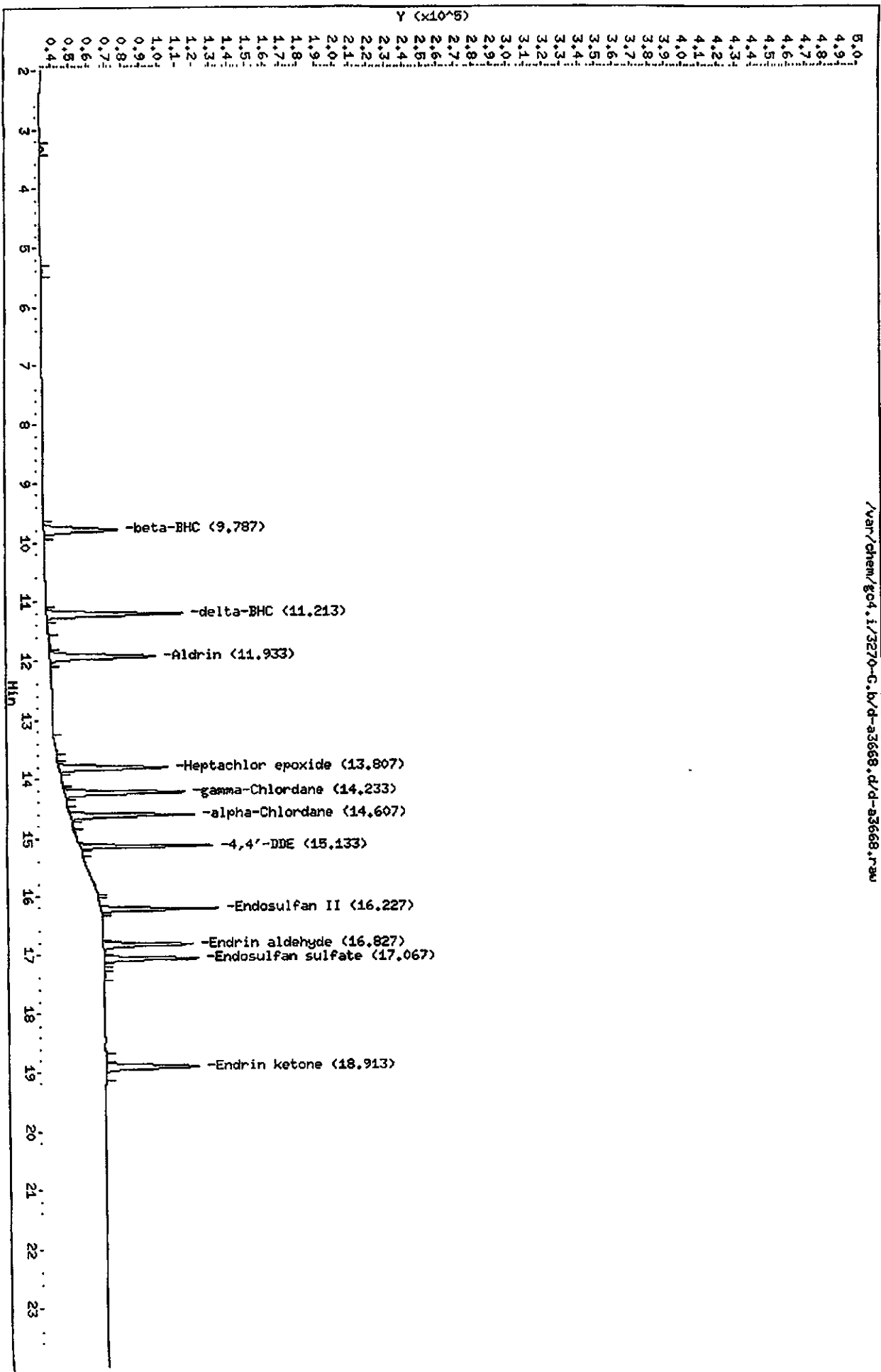
Sample Inlet: HEDB, 3270-G.b, 4-INDB, sub, 1,3

Column phase: DB608

Instrument: gc04.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3669.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3669.d
 Lab Smp Id: MHIGHB
 Inj Date : 28-JUN-2000 16:35
 Operator : 1891
 Smp Info : MHIGHB, 3270-G.b, , 4-INDB.sub, , 1, 4
 Misc Info : 190-84-10
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 16:35
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

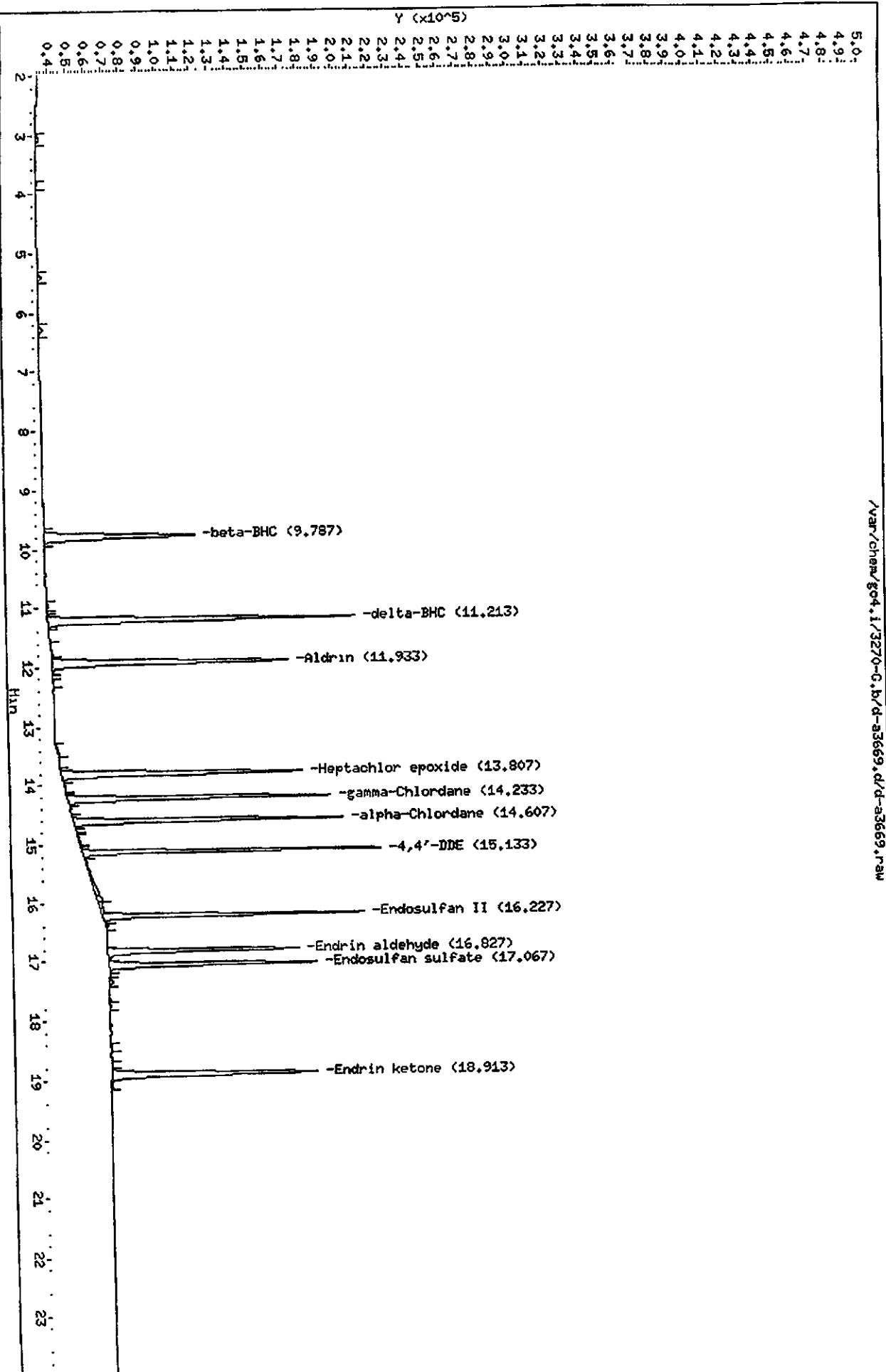
Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3669.d
 Calibration Sample, Level: 4
 Compound Sublist: 4-INDB.sub

Compounds				RESPONSE	AMOUNTS	
	RT	EXP RT	DLT RT		CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.933	11.933	0.000	133242	0.05000	0.05513
7 beta-BHC	9.787	9.787	0.000	85132	0.05000	0.04911
8 delta-BHC	11.213	11.213	0.000	172856	0.05000	0.05665
12 Heptachlor epoxide	13.807	13.807	0.000	135799	0.05000	0.05444
13 gamma-Chlordane	14.233	14.233	0.000	148308	0.05000	0.05369
14 alpha-Chlordane	14.607	14.607	0.000	152252	0.05000	0.05273
16 4,4'-DDE	15.133	15.133	0.000	168589	0.05000	0.05593
22 Endosulfan II	16.227	16.227	0.000	147716	0.05000	0.05438
24 Endrin aldehyde	16.827	16.827	0.000	107422	0.05000	0.05175
26 Endosulfan sulfate	17.067	17.067	0.000	117075	0.05000	0.05420
27 Endrin ketone	18.913	18.913	0.000	116116	0.05000	0.05406

Data File: /var/chem/g04.i/3270-G.b/d-a3669.d
Date: 28-JUN-2000 16:35
Client ID:
Sample Info: NHICH, 3270-G.b, 4-IND, sub, 1.4

Column phase: DB608

Instrument: g04.i
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3670.d
 Report Date: 28-Jun-2000 17:42

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3670.d
 Lab Smp Id: HIGHB
 Inj Date : 28-JUN-2000 17:01
 Operator : 1891
 Smp Info : HIGHB,3270-G.b,,4-INDB.sub,,1,5
 Misc Info : 190-84-11
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 28-Jun-2000 17:41 matkol
 Cal Date : 28-JUN-2000 17:01
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3670.d
 Calibration Sample, Level: 5
 Compound Sublist: 4-INDB.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.933	11.933	0.000	269488	0.10000	0.1090 (A)
7 beta-BHC	9.787	9.787	0.000	159676	0.10000	0.09359
8 delta-BHC	11.213	11.213	0.000	345131	0.10000	0.1102 (A)
12 Heptachlor epoxide	13.807	13.807	0.000	269724	0.10000	0.1064 (A)
13 gamma-Chlordane	14.233	14.233	0.000	294584	0.10000	0.1052 (A)
14 alpha-Chlordane	14.607	14.607	0.000	296640	0.10000	0.1022 (A)
16 4,4'-DDE	15.133	15.133	0.000	334546	0.10000	0.1086 (A)
22 Endosulfan II	16.227	16.227	0.000	292496	0.10000	0.1060 (A)
24 Endrin aldehyde	16.827	16.827	0.000	210014	0.10000	0.1009 (A)
26 Endosulfan sulfate	17.067	17.067	0.000	235325	0.10000	0.1070 (A)
27 Endrin ketone	18.913	18.913	0.000	231446	0.10000	0.1061 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gc4.i/3270-G.b/d-a3670.d
Date: 28-JUN-2000 17:01

Client ID:

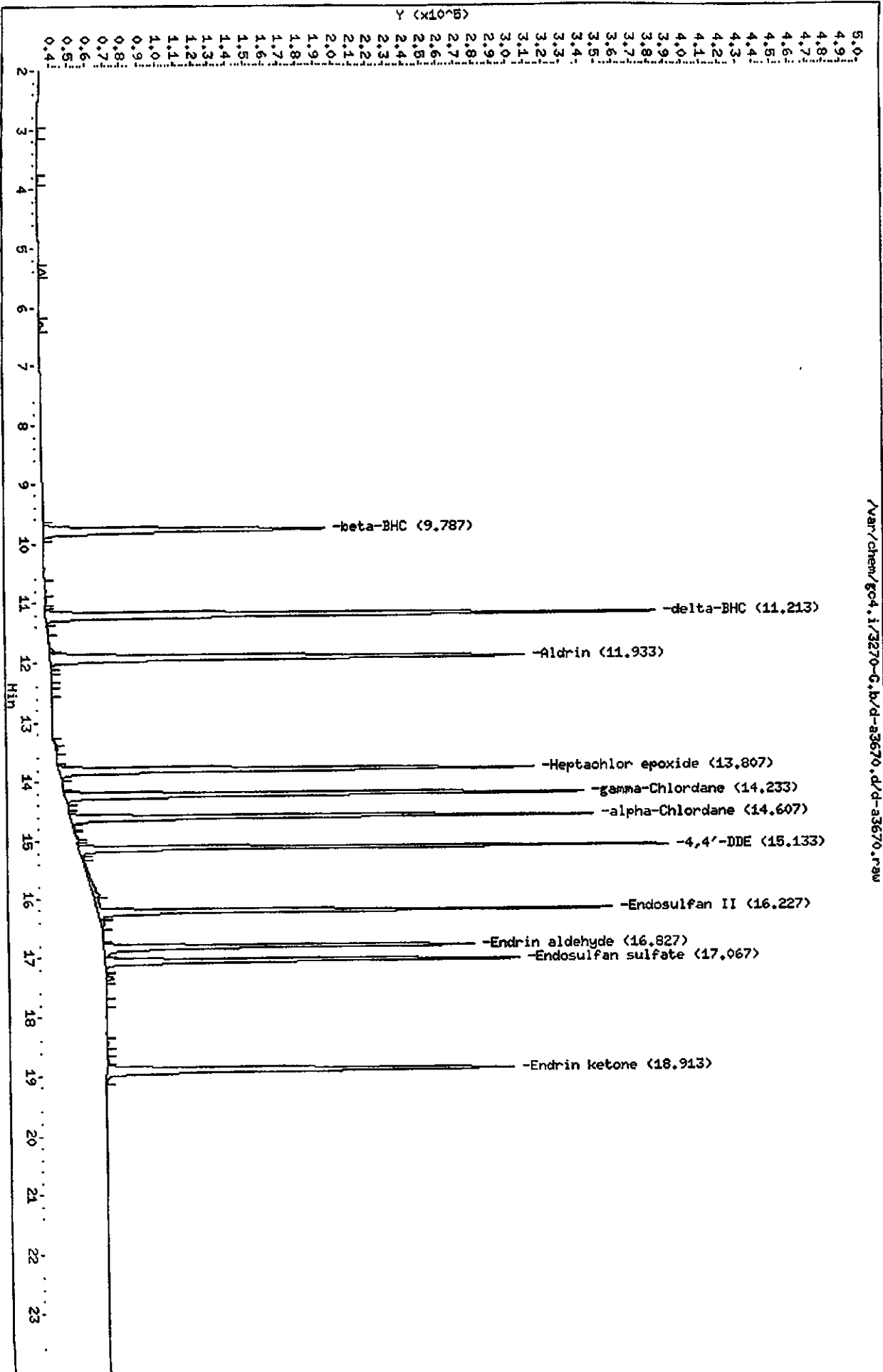
Sample Info: HICB,3270-G.b,,4-INDB,sub,,1.5

Column Phase: DB608

Instrument: gc4.i

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3671.d
 Report Date: 29-Jun-2000 07:56

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3671.d
 Lab Smp Id: 2ND A
 Inj Date : 28-JUN-2000 17:27
 Operator : 1891
 Smp Info : 2ND A, 3270-G.b, , INDA.sub, , 2, 3
 Misc Info : 190-82-2
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 29-Jun-2000 07:53 g
 Cal Date : 28-JUN-2000 17:01
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3670.d
 Continuing Calibration Sample
 Compound Sublist: INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.767	5.767	0.000	60199	0.02500	0.01983
5 alpha-BHC	8.087	8.087	0.000	69149	0.02500	0.01998
6 gamma-BHC (Lindane)	9.507	9.513	-0.006	62235	0.02500	0.02040
10 Heptachlor	10.787	10.793	-0.006	52323	0.02500	0.02016
15 Endosulfan I	14.667	14.673	-0.006	53619	0.02500	0.01999
17 Dieldrin	15.287	15.287	0.000	124944	0.02500	0.04176
20 Endrin	15.920	15.920	0.000	94505	0.02500	0.03806
21 4,4'-DDD	16.080	16.080	0.000	110531	0.02500	0.04195
23 4,4'-DDT	16.607	16.607	0.000	103735	0.02500	0.04257
25 Methoxychlor	18.460	18.460	0.000	222143	0.05000	0.2098 (A)
\$ 30 Decachlorobiphenyl	22.867	22.873	-0.006	63706	0.02500	0.04062

QC Flag Legend

A - Target compound detected but, quantitated amount
 exceeded maximum amount.

Data File: /var/chem/g04.i/3270-G.b/d-a3671.d

Date: 28-JUN-2000 17:27

Client ID:

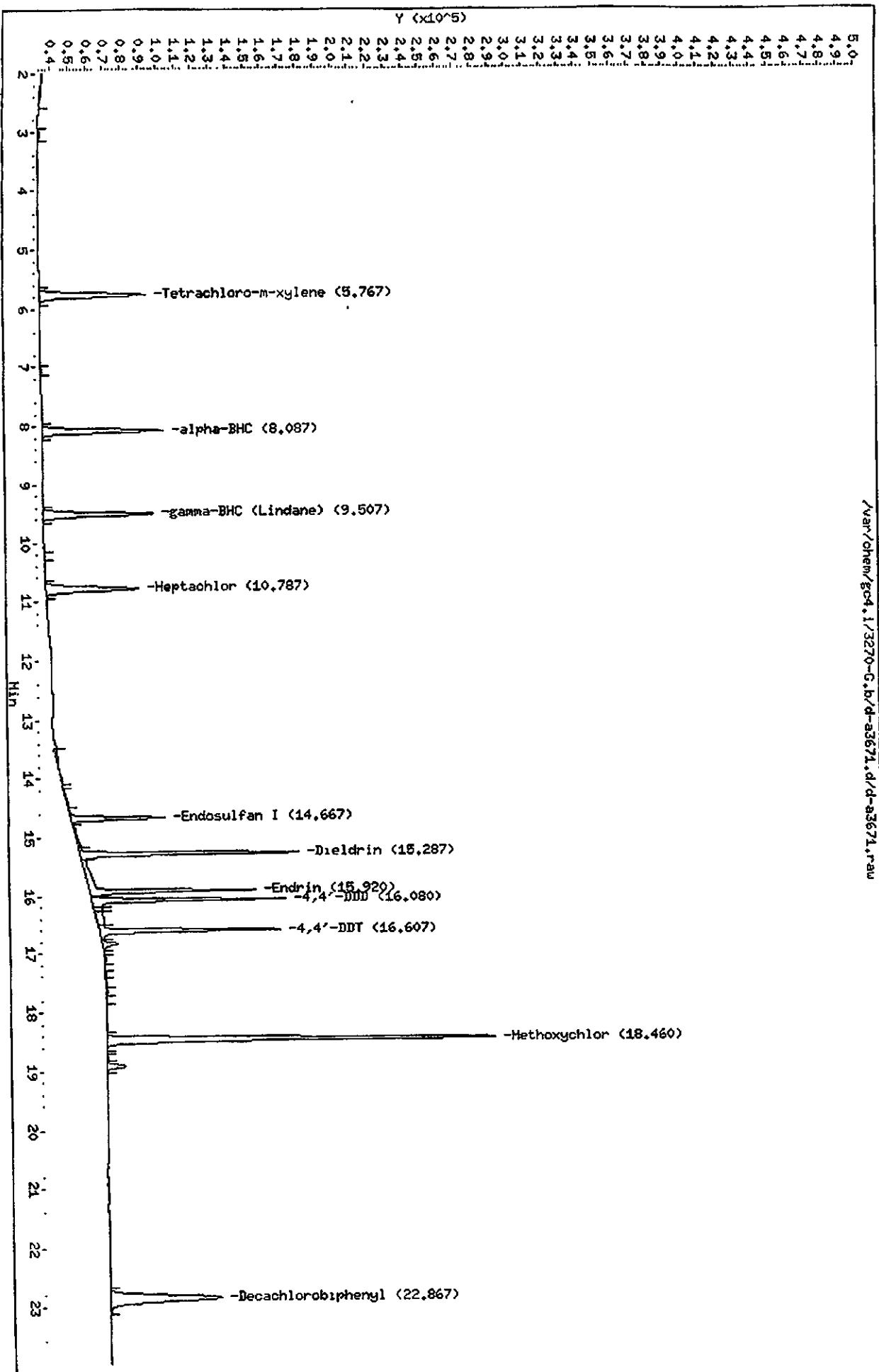
Sample Info: 2ND A, 3270-G.b, INDA, sub, 2, 3

Column Phase: DB608

Instrument: g04.i

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3672.d
 Report Date: 29-Jun-2000 07:56

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3672.d
 Lab Smp Id: 2ND B
 Inj Date : 28-JUN-2000 17:53
 Operator : 1891
 Smp Info : 2ND B, 3270-G.b, , INDB.sub, , 2, 3
 Misc Info : 190-82-5
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 29-Jun-2000 07:53 g
 Cal Date : 28-JUN-2000 17:01
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3670.d
 Continuing Calibration Sample
 Compound Sublist: INDB.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	==	=====	=====	=====	=====	=====
11 Aldrin	11.927	11.933	-0.006	45628	0.02500	0.01845
7 beta-BHC	9.787	9.787	0.000	32740	0.02500	0.01919
8 delta-BHC	11.213	11.213	0.000	56617	0.02500	0.01808
12 Heptachlor epoxide	13.807	13.807	0.000	50147	0.02500	0.01978
13 gamma-Chlordane	14.233	14.233	0.000	53347	0.02500	0.01906
14 alpha-Chlordane	14.607	14.607	0.000	56606	0.02500	0.01950
16 4,4'-DDE	15.133	15.133	0.000	124515	0.02500	0.04042
22 Endosulfan II	16.227	16.227	0.000	110781	0.02500	0.04016
24 Endrin aldehyde	16.827	16.827	0.000	78624	0.02500	0.03779
26 Endosulfan sulfate	17.067	17.067	0.000	88875	0.02500	0.04042
27 Endrin ketone	18.913	18.913	0.000	88380	0.02500	0.04052

Data File: /var/chem/gc4.i/3270-G.b/d-a3672.d

Date: 28-JUN-2000 17:53

Client ID:

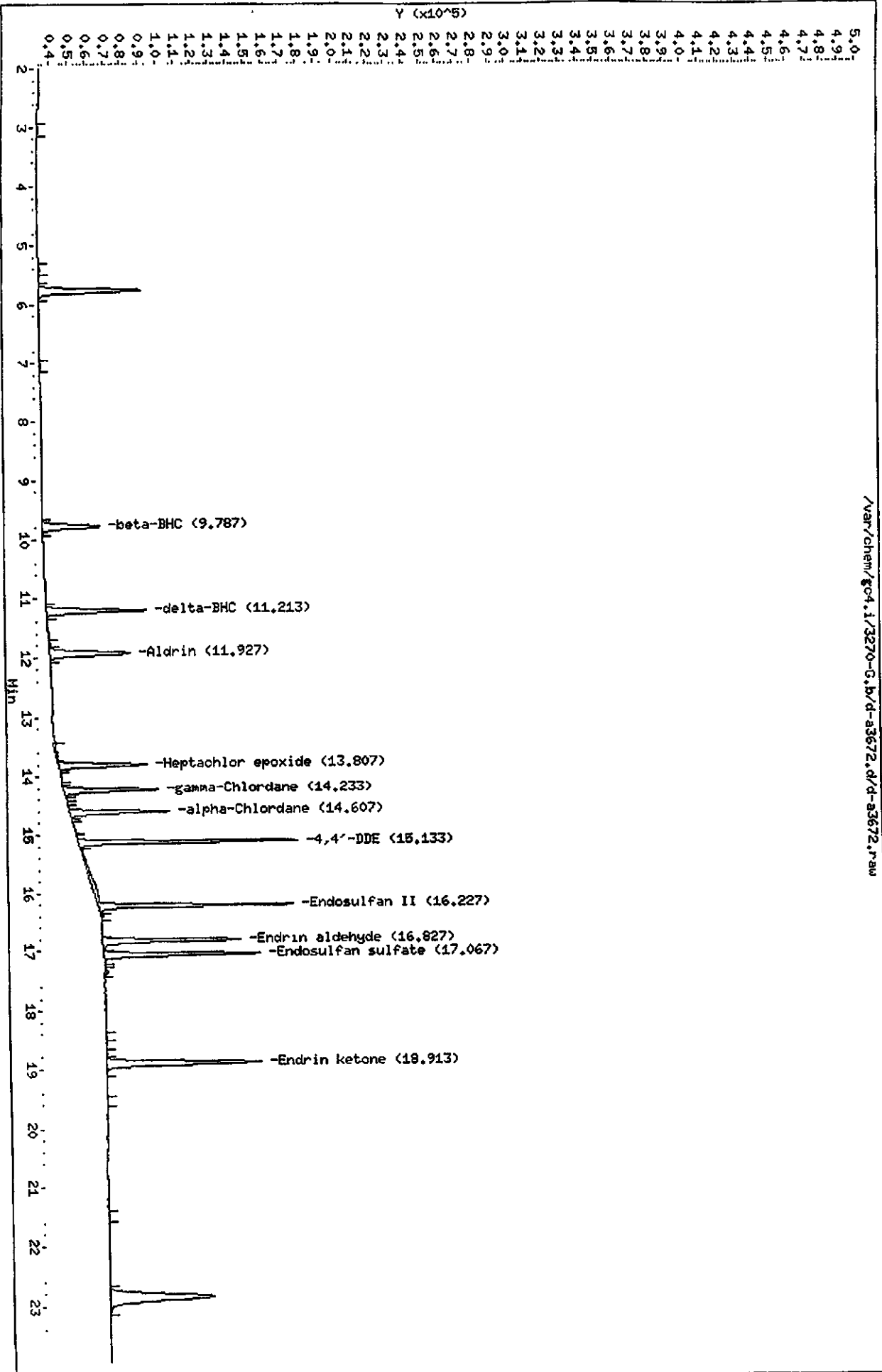
Sample Info: 2ND B, 3270-G.b, INDB.sub, 2.3

Column phase: DB608

Instrument: gc4.i

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-a3673.d
 Report Date: 29-Jun-2000 07:56

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-a3673.d
 Lab Smp Id: EVALB
 Inj Date : 28-JUN-2000 18:19
 Operator : 1891
 Smp Info : EVALB,3270-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTA.m
 Meth Date : 29-Jun-2000 07:53 g
 Cal Date : 28-JUN-2000 17:01
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3670.d
 QC Sample: PEM
 Compound Sublist: EVALBR.sub

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT	RT	ON-COLUMN	FINAL
				RESPONSE	(ng)	(ng)
\$ 1 Tetrachloro-m-xylene	5.767	5.767	0.000	61355	0.02021	0.02021(R)
16 4,4'-DDE	Compound Not Detected.					
20 Endrin	15.920	15.920	0.000	57710	0.02324	0.02324
21 4,4'-DDD	16.087	16.080	0.007	2288	0.000868	0.0008683
23 4,4'-DDT	16.607	16.607	0.000	59010	0.02421	0.02421
24 Endrin aldehyde	16.827	16.827	0.000	4609	0.00222	0.002215
27 Endrin ketone	18.913	18.913	0.000	3808	0.00175	0.001746
\$ 30 Decachlorobiphenyl	22.873	22.873	0.000	32151	0.02050	0.02050(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT = 3.7
 Endrin = 12.7

Data File: /var/chem/ec4,i/3270-G,b/d-a3673.d

Date: 28-JUN-2000 18:19

Client ID:

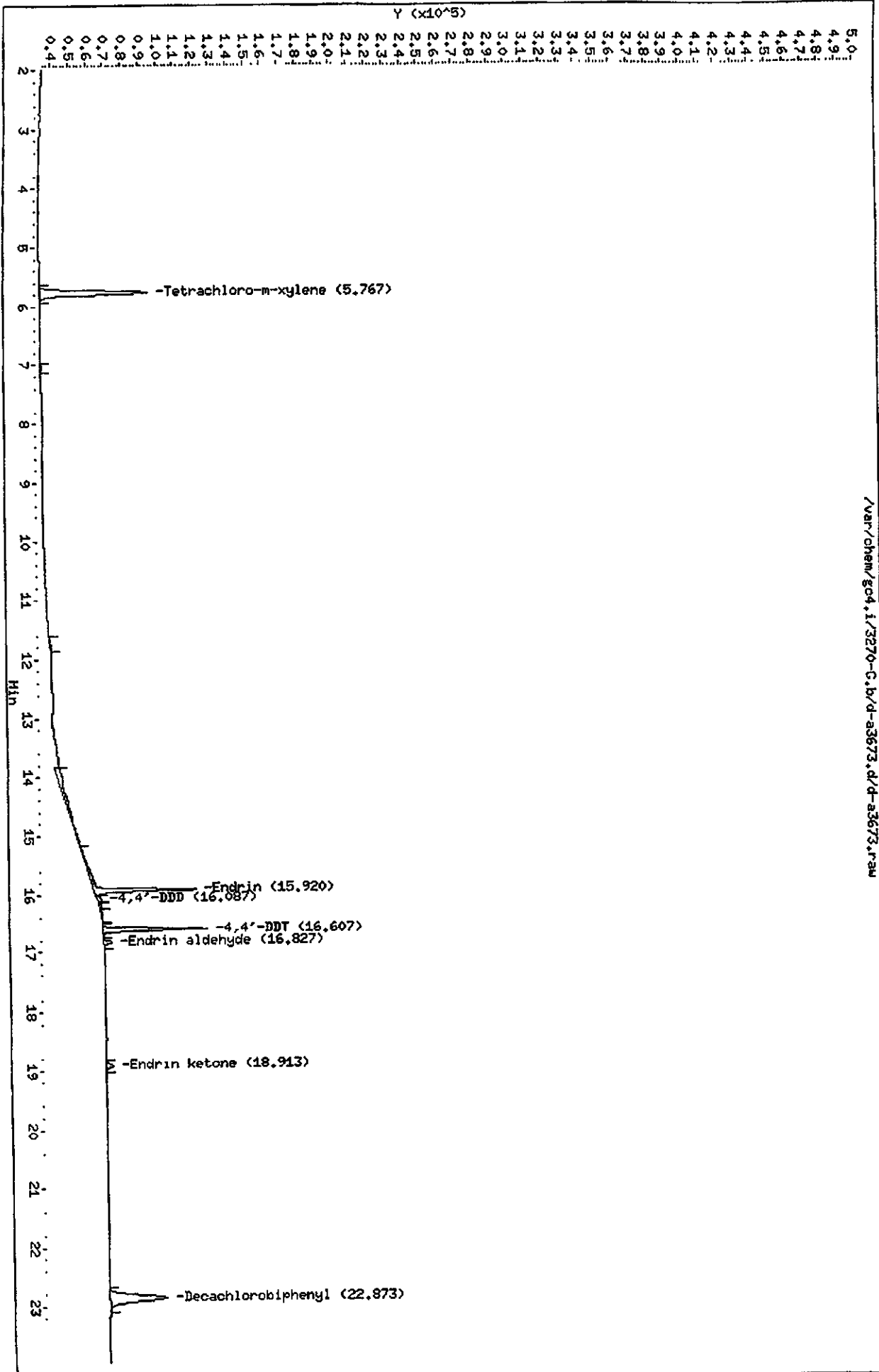
Sample Info: EVALB,3270-G,b,EVALBR,sub,3,1

Column phase: DB608

Instrument: ec4.i

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-a3783.d
 Report Date: 03-Jul-2000 11:25

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3783.d
 Lab Smp Id: EVALB
 Inj Date : 03-JUL-2000 08:52
 Operator : 1891
 Smp Info : EVALB,4030-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTA.m
 Meth Date : 03-Jul-2000 11:24 matkol
 Cal Date : 29-JUN-2000 20:25
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3733.d
 QC Sample: PEM
 Compound Sublist: EVALBR.sub

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.740	5.740	0.000	65224	0.02148	0.02148 (R)
16 4,4'-DDB	Compound Not Detected.					
20 Endrin	15.900	15.900	0.000	61588	0.02480	0.02480
21 4,4'-DDD	16.067	16.060	0.007	3872	0.00147	0.001469
23 4,4'-DDT	16.587	16.587	0.000	62749	0.02575	0.02575
24 Endrin aldehyde	16.807	16.800	0.007	5196	0.00250	0.002497
27 Endrin ketone	18.873	18.873	0.000	3695	0.00169	0.001694
\$ 30 Decachlorobiphenyl	22.807	22.807	0.000	32994	0.02104	0.02104 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

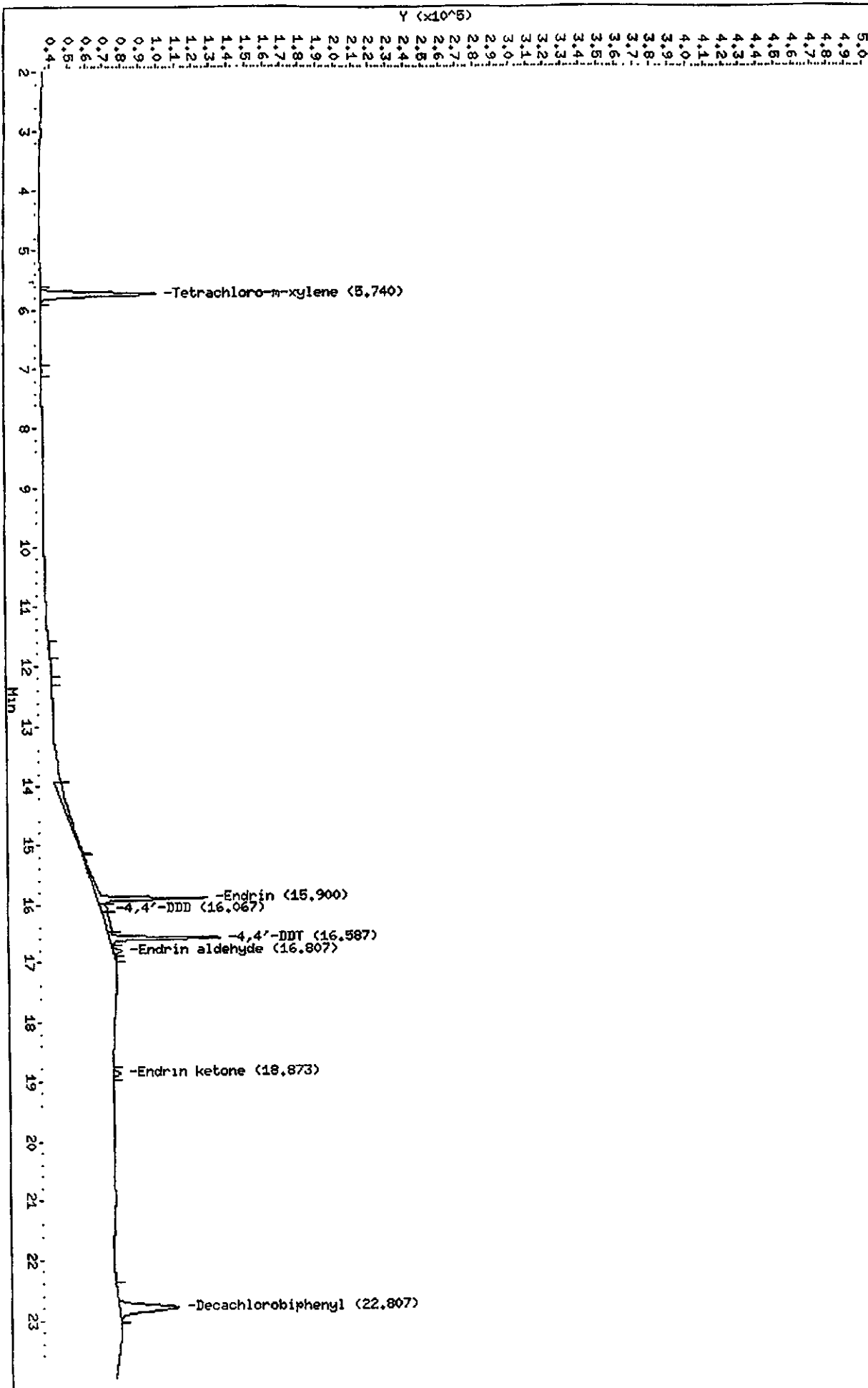
DDT = 5.8
 Endrin = 12.6

Data File: /var/chem/gc4.i/4030-G.b/d-a3783.d
Date: 03-JUL-2000 08:52
Client ID:
Sample Info: EVALB,4030-G.b,EVALBR,sub,7,1

Column phase: DB608

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53

/var/chem/gc4.i/4030-G.b/d-a3783.d/d-a3783.raw



Data File: /var/chem/gc4.i/4030-G.b/d-a3784.d
 Report Date: 03-Jul-2000 11:25

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3784.d
 Lab Smp Id: MEDTOX
 Inj Date : 03-JUL-2000 09:18
 Operator : 1891
 Smp Info : MEDTOX,4030-G.b,,1-TOX.sub,,2,3
 Misc Info : 190-84-13
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTA.m
 Meth Date : 03-Jul-2000 11:24 matkol
 Cal Date : 29-JUN-2000 20:25
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3733.d
 Continuing Calibration Sample
 Compound Sublist: 1-TOX.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
18 Toxaphene	16.080	16.080	0.000	37743	1.00000	1.053
\$ 1 Tetrachloro-m-xylene	5.740	5.740	0.000	79656	0.02500	0.02623
\$ 30 Decachlorobiphenyl	22.807	22.807	0.000	39935	0.02500	0.02546

Data File: /var/chem/gc4.1/4030-G.b/d-a3784.d
Date: 03-JUL-2000 09:18

Client ID:

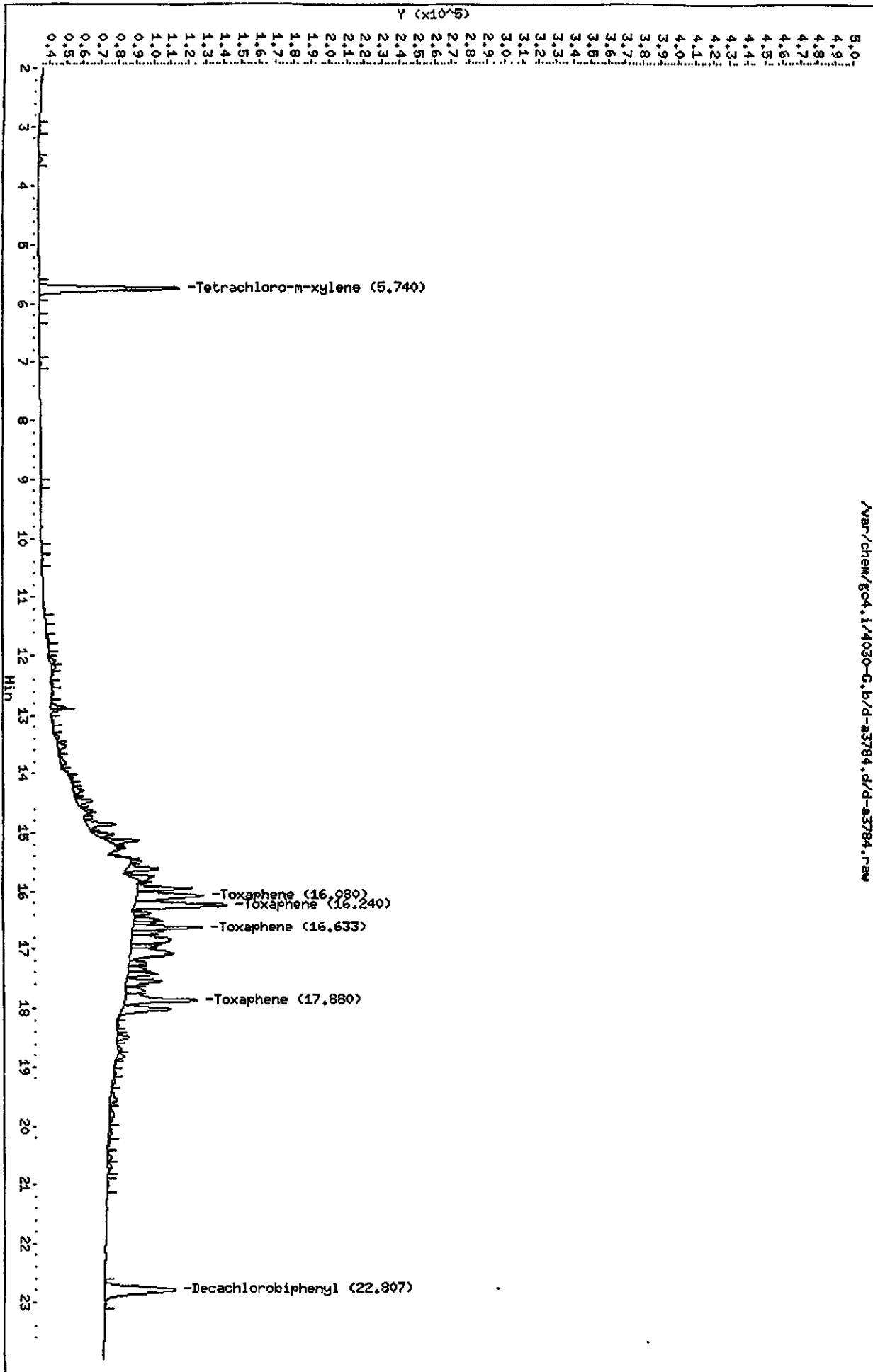
Sample Info: HEDTOX, 4030-G.b, 1-TOK, sub, 2, 3

Column phase: DB608

Instrument: gc4.i

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-a3785.d
Report Date: 03-Jul-2000 11:25

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STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3785.d
Lab Smp Id: MEDCHLOR
Inj Date : 03-JUL-2000 09:45
Operator : 1891
Smp Info : MEDCHLOR,4030-G.b,,2-CHLO.sub,,2,3
Misc Info : 190-85-10
Comment :
Method : /var/chem/gc4.i/4030-G.b/PESTA.m
Meth Date : 03-Jul-2000 11:24 matkol
Cal Date : 29-JUN-2000 20:25
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

Inst ID: gc4.i
Quant Type: ESTD
Cal File: d-a3733.d
Continuing Calibration Sample
Compound Sublist: 2-CHLO.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
9 Chlordane	10.140	10.140	0.000	21657	0.25000	0.2757(M)
\$ 1 Tetrachloro-m-xylene	5.740	5.740	0.000	81591	0.02500	0.02687
\$ 30 Decachlorobiphenyl	22.807	22.807	0.000	41946	0.02500	0.02674

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gc04.1/4030-G,b/d-d-33785.d

Date: 03-JUL-2000 09:45

Client ID:

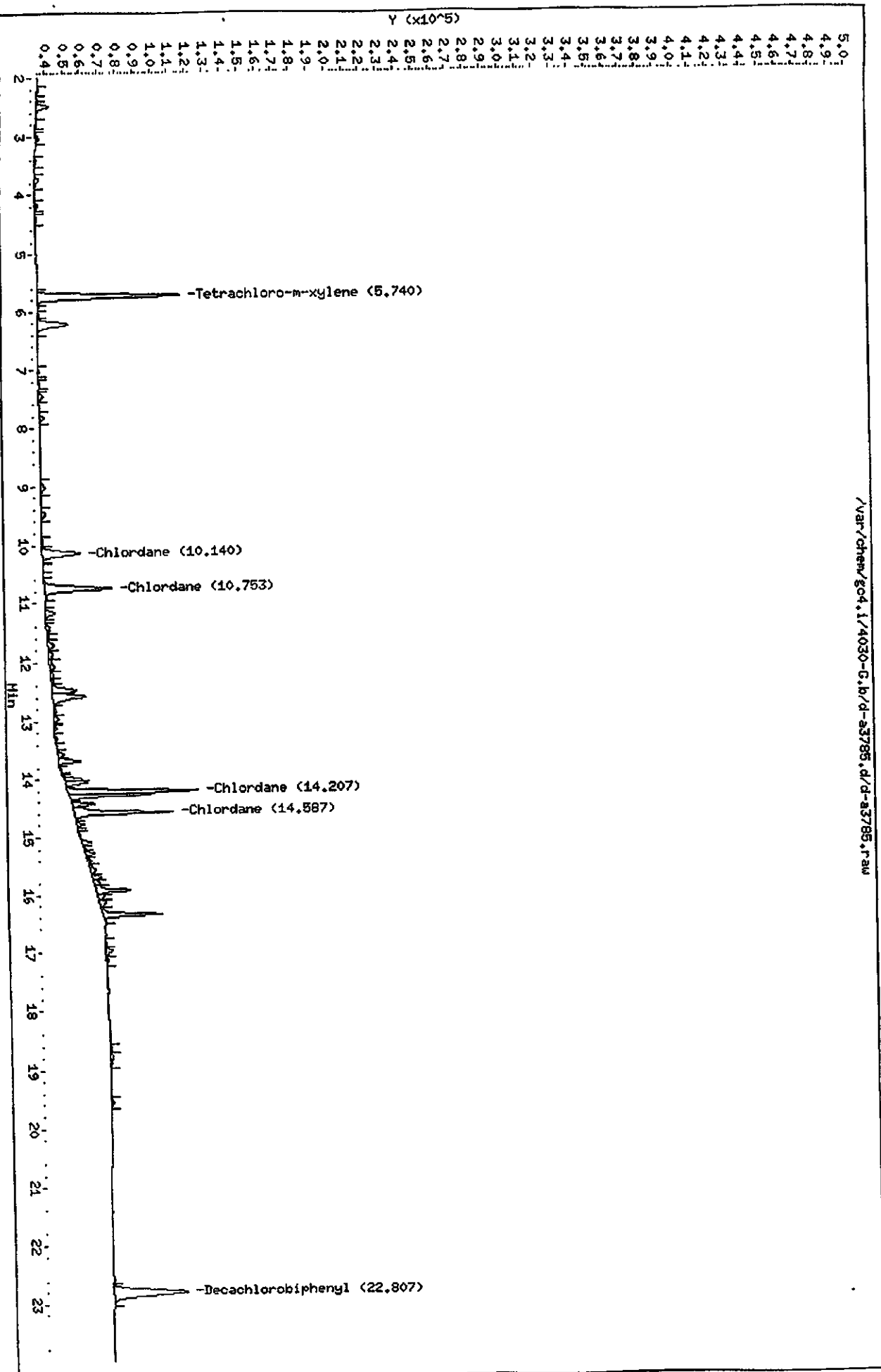
Sample Info: MEDICAL, 4030-G,b,,2-CHL.D, sub,,2,3

Column phase: DB608

Instrument: gc04.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-a3786.d
 Report Date: 03-Jul-2000 11:25

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3786.d
 Lab Smp Id: MEDA
 Inj Date : 03-JUL-2000 10:11
 Operator : 1891
 Smp Info : MEDA,4030-G.b,,INDA.sub,,2,3
 Misc Info : 190-84-3
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTA.m
 Meth Date : 03-Jul-2000 11:24 matkol
 Cal Date : 29-JUN-2000 20:25
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3733.d
 Continuing Calibration Sample
 Compound Sublist: INDA.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
§ 1 Tetrachloro-m-xylene	5.740	5.740	0.000	81084	0.02500	0.02670
5 alpha-BHC	8.047	8.047	0.000	94667	0.02500	0.02735
6 gamma-BHC (Lindane)	9.467	9.467	0.000	84456	0.02500	0.02769
10 Heptachlor	10.747	10.747	0.000	68235	0.02500	0.02629
15 Endosulfan I	14.647	14.647	0.000	68490	0.02500	0.02553
17 Dieldrin	15.260	15.260	0.000	76601	0.02500	0.02560
20 Endrin	15.900	15.900	0.000	60548	0.02500	0.02438
21 4,4'-DDD	16.060	16.060	0.000	66640	0.02500	0.02529
23 4,4'-DDT	16.587	16.587	0.000	62056	0.02500	0.02546
25 Methoxychlor	18.427	18.427	0.000	53408	0.05000	0.05045
§ 30 Decachlorobiphenyl	22.807	22.807	0.000	41343	0.02500	0.02636

Data File: /var/chem/gc4.1/4030-G.b/d-a3786.d

Date: 03-JUL-2000 10:11

Client ID:

Sample Info: HEDA,4030-G.b.,INDA.sub.,2,3

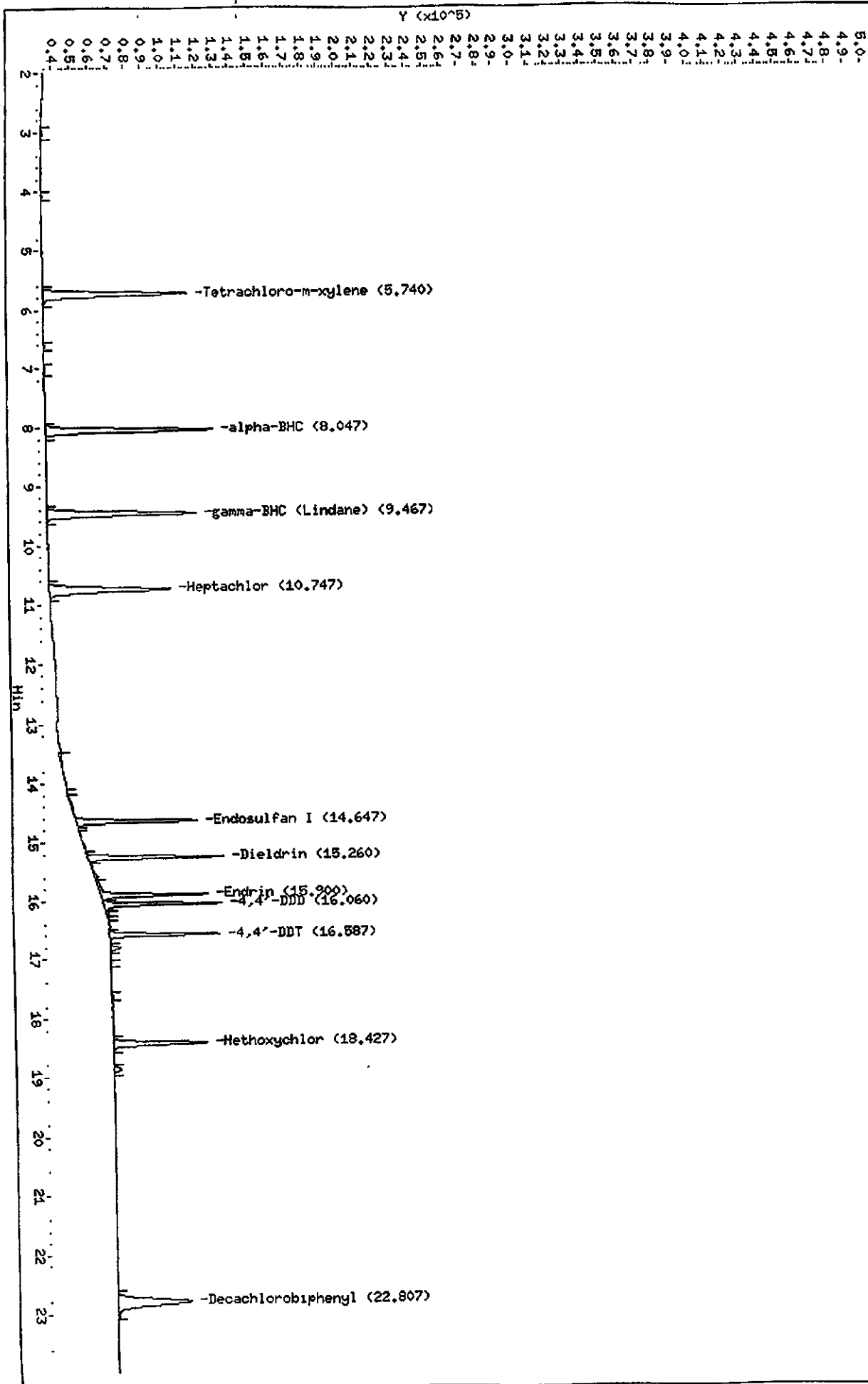
Column phase: DB608

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53

/var/chem/gc4.1/4030-G.b/d-a3786.d/d-a3786.raw



Data File: /var/chem/gc4.i/4030-G.b/d-a3787.d
 Report Date: 03-Jul-2000 11:25

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3787.d
 Lab Smp Id: MEDB
 Inj Date : 03-JUL-2000 10:37
 Operator : 1891
 Smp Info : MEDB, 4030-G.b, , INDB.sub, , 2, 3
 Misc Info : 190-84-9
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTA.m
 Meth Date : 03-Jul-2000 11:24 matkol
 Cal Date : 29-JUN-2000 20:25
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3733.d
 Continuing Calibration Sample
 Compound Sublist: INDB.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.893	11.893	0.000	64251	0.02500	0.02599
7 beta-BHC	9.747	9.747	0.000	46188	0.02500	0.02707
8 delta-BHC	11.173	11.173	0.000	83905	0.02500	0.02680
12 Heptachlor epoxide	13.773	13.773	0.000	65767	0.02500	0.02594
13 gamma-Chlordane	14.207	14.207	0.000	72226	0.02500	0.02580
14 alpha-Chlordane	14.587	14.587	0.000	74883	0.02500	0.02580
16 4,4'-DDE	15.113	15.113	0.000	78859	0.02500	0.02560
22 Endosulfan II	16.207	16.207	0.000	70485	0.02500	0.02556
24 Endrin aldehyde	16.800	16.800	0.000	53869	0.02500	0.02589
26 Endosulfan sulfate	17.040	17.040	0.000	55462	0.02500	0.02522
27 Endrin ketone	18.873	18.873	0.000	57322	0.02500	0.02628

Data File: /var/chem/g04.1/4030-G.b/d-a3787.d

Date: 03-JUL-2000 10:37

Client ID:

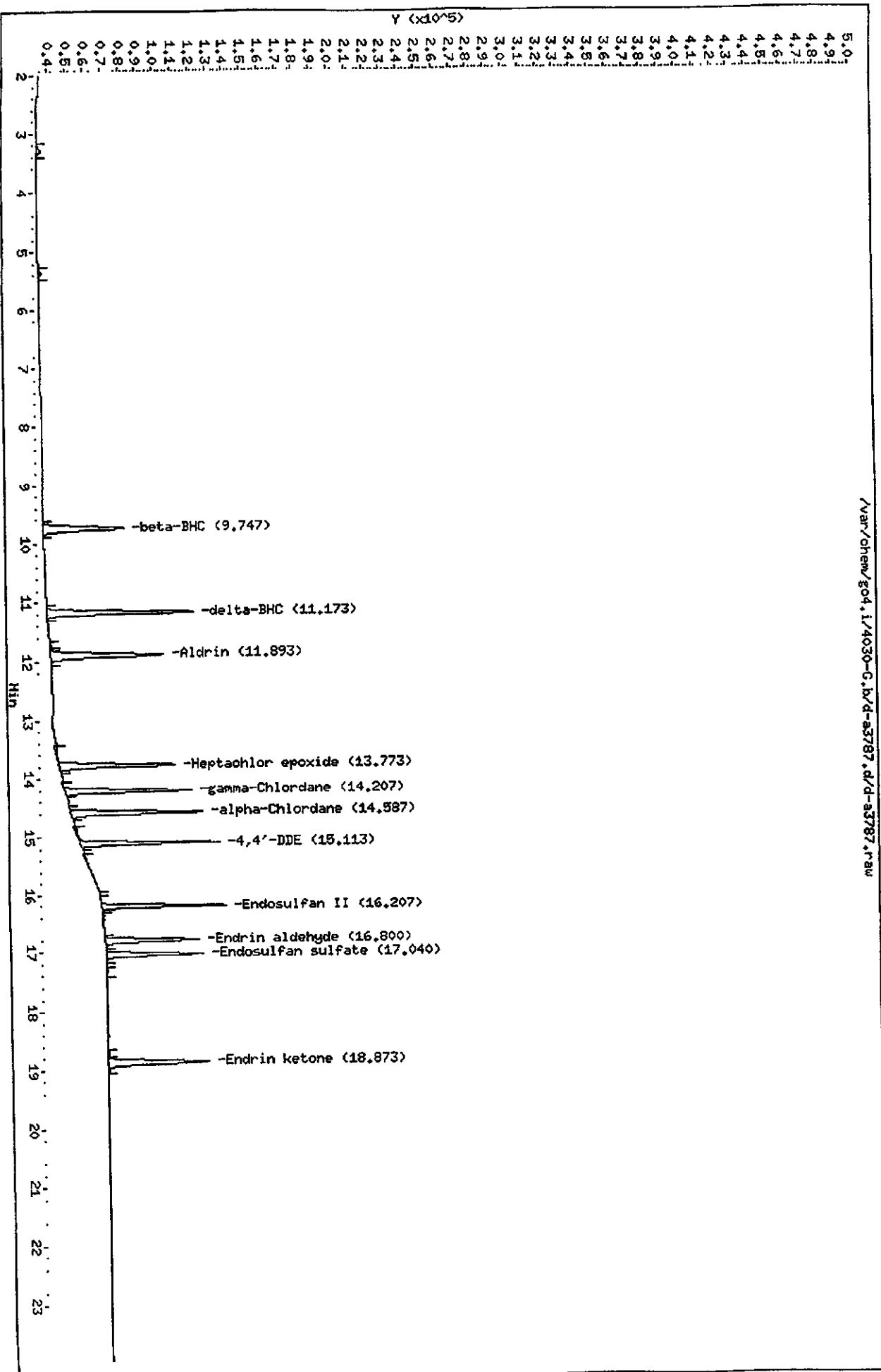
Sample Info: MEDB,4030-G.b., INDB.sub.,2,3

Column phase: DB608

Instrument: g04.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-a3808.d
Report Date: 05-Jul-2000 09:11

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STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3808.d
Lab Smp Id: MEDA
Inj Date : 03-JUL-2000 19:45
Operator : 1891
Smp Info : MEDA,4030-G.b,,INDA.sub,,2,3
Misc Info : 190-84-3
Comment :
Method : /var/chem/gc4.i/4030-G.b/PESTA.m
Meth Date : 05-Jul-2000 08:44 g
Cal Date : 29-JUN-2000 20:25
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

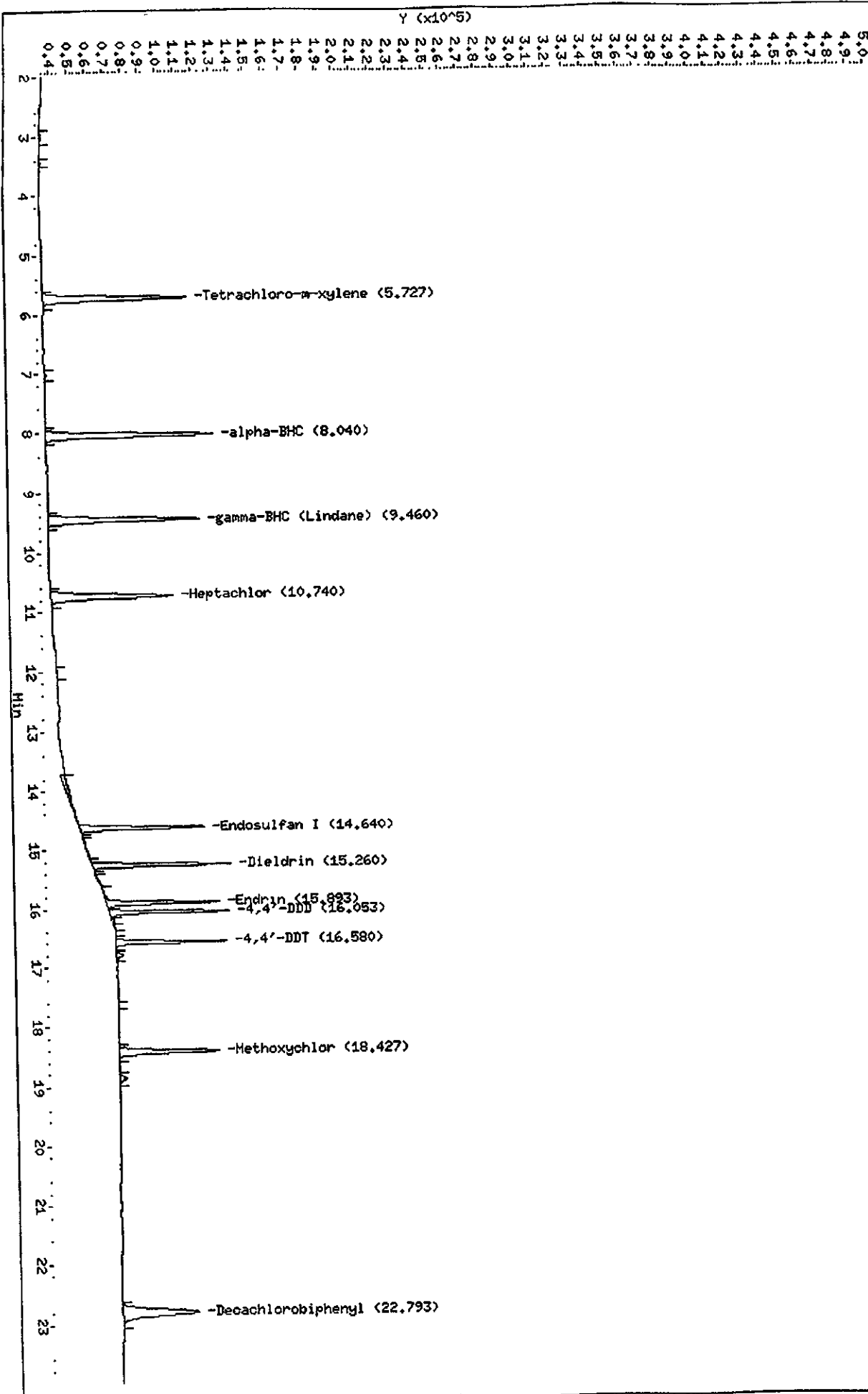
Inst ID: gc4.i
Quant Type: ESTD
Cal File: d-a3733.d
Continuing Calibration Sample
Compound Sublist: INDA.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.727	5.740	-0.013	80815	0.02500	0.02662
5 alpha-BHC	8.040	8.047	-0.007	94128	0.02500	0.02720
6 gamma-BHC (Lindane)	9.460	9.467	-0.007	84675	0.02500	0.02776
10 Heptachlor	10.740	10.747	-0.007	68229	0.02500	0.02629
15 Endosulfan I	14.640	14.647	-0.007	69881	0.02500	0.02605
17 Dieldrin	15.260	15.260	0.000	77967	0.02500	0.02606
20 Endrin	15.893	15.900	-0.007	63766	0.02500	0.02568
21 4,4'-DDD	16.053	16.060	-0.007	67139	0.02500	0.02548
23 4,4'-DDT	16.580	16.587	-0.007	62648	0.02500	0.02571
25 Methoxychlor	18.427	18.427	0.000	55801	0.05000	0.05271
\$ 30 Decachlorobiphenyl	22.793	22.807	-0.014	42220	0.02500	0.02692

Data File: /var/chem/gc04.i/4030-G.b/d-a3808.d
 Date: 03-JUL-2000 19:45
 Client ID:
 Sample Info: HEDR,4030-G.b, INDR,sub,,2,3

Column phase: DB608

Instrument: gc04.i
 Operator: 1891
 Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-a3809.d
 Report Date: 05-Jul-2000 09:11

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3809.d
 Lab Smp Id: MEDB
 Inj Date : 03-JUL-2000 20:11
 Operator : 1891
 Smp Info : MEDB,4030-G.b,,INDB.sub,,2,3
 Misc Info : 190-84-9
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTA.m
 Meth Date : 05-Jul-2000 08:44 g
 Cal Date : 29-JUN-2000 20:25
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

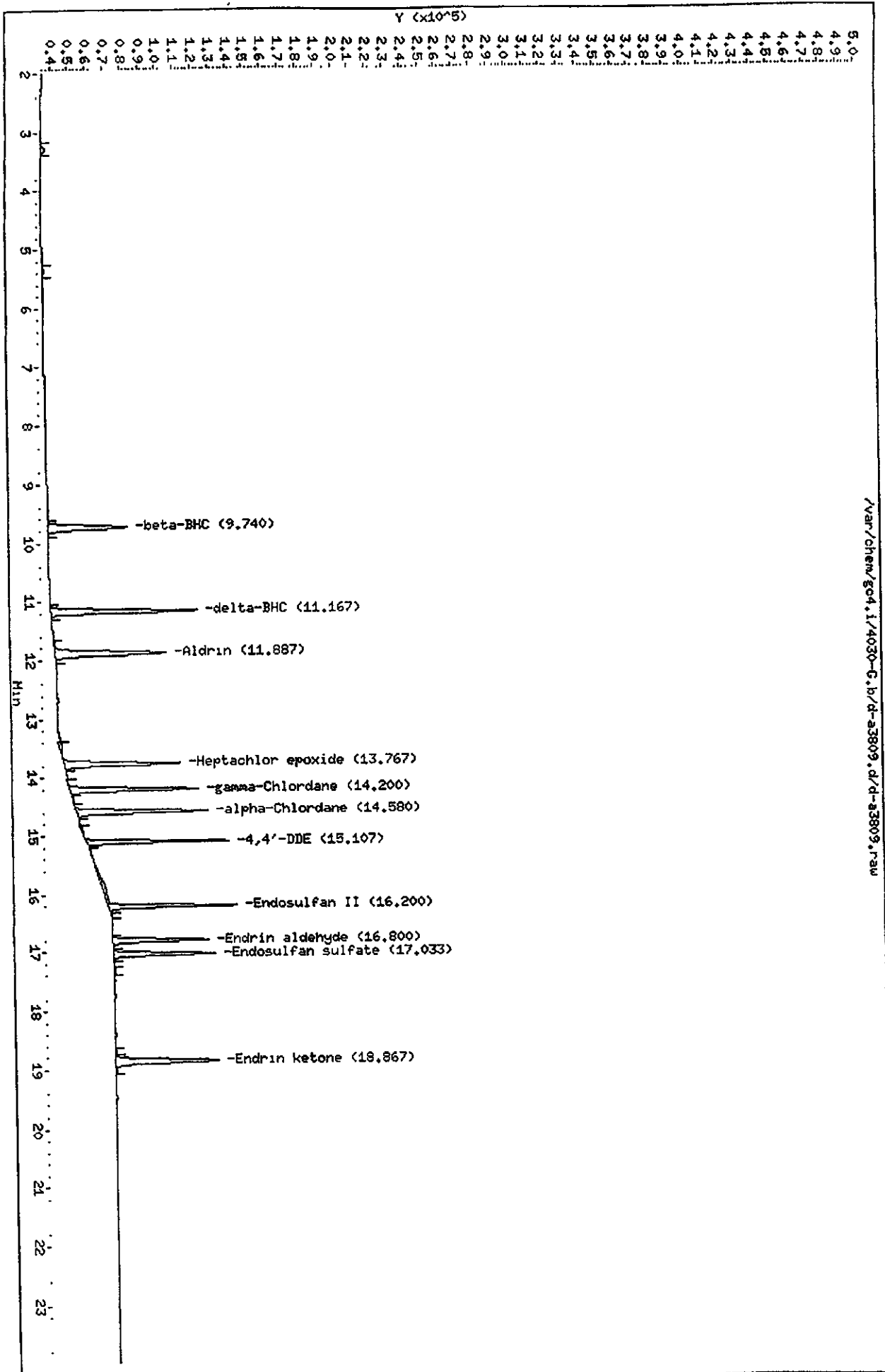
Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-a3733.d
 Continuing Calibration Sample
 Compound Sublist: INDB.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.887	11.893	-0.006	63289	0.02500	0.02560
7 beta-BHC	9.740	9.747	-0.007	45565	0.02500	0.02671
8 delta-BHC	11.167	11.173	-0.006	83098	0.02500	0.02654
12 Heptachlor epoxide	13.767	13.773	-0.006	65829	0.02500	0.02597
13 gamma-Chlordane	14.200	14.207	-0.007	72581	0.02500	0.02593
14 alpha-Chlordane	14.580	14.587	-0.007	75022	0.02500	0.02584
16 4,4'-DDE	15.107	15.113	-0.006	80969	0.02500	0.02628
22 Endosulfan II	16.200	16.207	-0.007	73085	0.02500	0.02650
24 Endrin aldehyde	16.800	16.800	0.000	53948	0.02500	0.02593
26 Endosulfan sulfate	17.033	17.040	-0.007	57741	0.02500	0.02626
27 Endrin ketone	18.867	18.873	-0.006	58019	0.02500	0.02660

Data File: /var/chem/gc04.i/4030-G.b/d-a3809.d
Date: 03-JUL-2000 20:11
Client ID:
Sample Info: HEDB,4030-G.b, INDB.sub,2,3

Column phase: DB608

Instrument: gc04.i
Operator: 1891
Column diameter: 0.53



Report Date : 03-Jul-2000 11:29

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STL-PITTSBURGH

COMPOUND LISTING

Method file : /var/chem/gc4.i/4030-G.b/PESTB.m
Quant Method : ESTD
Last Update : 03-Jul-2000 11:29
Data Type : GC MULTI COMP

Target Version : 3.40
Number of Cpnds : 31

Global Integrator : Falcon

Chromat Events	Values
-----	-----
Initial:Start Threshold	90.000000
Initial:End Threshold	45.000000
Initial:Area Threshold	900.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	1.000000
Initial:Negative Peaks	OFF
Initial:Tension	0.000000
15.000:Start Threshold	672.000000
15.000:End Threshold	336.000000
15.000:Area Threshold	6720.000000

Compound	RT	RT Window	RF
\$ 1 Tetrachloro-m-xylene	5.693	5.643-5.743	2.151e+06
58 MIREX	17.633	17.583-17.683	1.790e+06
2 Diallate A	7.233	7.183-7.283	
3 Diallate B	7.807	7.757-7.857	
4 HEXACHLOROBENZENE	7.040	6.990-7.090	4.437e+06
5 alpha-BHC	8.567	8.517-8.617	2.789e+06
6 gamma-BHC (Lindane)	9.987	9.937-10.037	2.412e+06
7 beta-BHC	12.467	12.417-12.517	1.388e+06
8 delta-BHC	13.313	13.263-13.363	2.679e+06
9 Chlordane	10.253	10.203-10.303	6.534e+04
	10.827	10.777-10.877	1.432e+05
	14.633	14.583-14.683	2.668e+05
	14.753	14.703-14.803	3.761e+05
10 Heptachlor	10.827	10.777-10.877	2.610e+06
11 Aldrin	11.773	11.723-11.823	2.594e+06
12 Heptachlor epoxide	13.873	13.823-13.923	2.703e+06
13 gamma-Chlordane	14.633	14.583-14.683	2.987e+06
14 alpha-Chlordane	14.747	14.697-14.797	2.960e+06
15 Endosulfan I	14.540	14.490-14.590	2.768e+06
16 4,4'-DDE	14.933	14.883-14.983	3.079e+06
17 Dieldrin	15.253	15.203-15.303	3.137e+06

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Report Date : 03-Jul-2000 11:29

STL-PITTSBURGH

COMPOUND LISTING

Method file : /var/chem/gc4.i/4030-G.b/PESTB.m

Compound	RT	RT Window	RF
18 Toxaphene	16.087	16.037-16.137	3.524e+04
	16.413	16.363-16.463	3.036e+04
	16.893	16.843-16.943	2.019e+04
	17.647	17.597-17.697	3.579e+04
19 Isodrin	12.833	12.783-12.883	
20 Endrin	15.607	15.557-15.657	2.540e+06
21 4,4'-DDD	16.227	16.177-16.277	2.400e+06
22 Endosulfan II	16.373	16.323-16.423	2.821e+06
23 4,4'-DDT	16.520	16.470-16.570	2.351e+06
24 Endrin aldehyde	17.100	17.050-17.150	1.336e+06
25 Methoxychlor	17.627	17.577-17.677	1.148e+06
26 Endosulfan sulfate	17.727	17.677-17.777	1.844e+06
27 Endrin ketone	18.720	18.670-18.770	2.112e+06
28 Chlorobenzilate	15.213	15.163-15.263	
29 Kepone	17.827	17.777-17.877	
\$ 30 Decachlorobiphenyl	21.020	20.970-21.070	1.665e+06

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DB1701

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Report Date : 28-Jun-2000 17:43

STL-PITTSBURGH

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2000 12:13
End Cal Date : 28-JUN-2000 17:01
Quant Method : ESTD
Origin : Disabled
Target Version : 3.40
Integrator : Falcon
Method file : /var/chem/gc4.i/3270-G.b/PESTB.m
Cal Date : 28-Jun-2000 17:43 g
Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gc4.i/3270-G.b/d-b3666.d
Level 2: /var/chem/gc4.i/3270-G.b/d-b3667.d
Level 3: /var/chem/gc4.i/3270-G.b/d-b3668.d
Level 4: /var/chem/gc4.i/3270-G.b/d-b3669.d
Level 5: /var/chem/gc4.i/3270-G.b/d-b3670.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
2 Diallylate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Diallylate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 HEXACHLOROBENZENE	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 alpha-BHC	2373800	2538600	2761720	3046900	3225850	2789374	12.588
6 gamma-BHC (Lindane)	2154600	2231300	2378880	2611820	2684710	2412262	9.595
7 beta-BHC	1351400	1418500	1351960	1438680	1377810	1387670	2.846
8 delta-BHC	2250000	2493000	2625320	2960060	3065500	2678776	12.520
9 Chlordane(1)	+++++	+++++	65344	+++++	+++++	65344	0.000
(2)	+++++	+++++	143192	+++++	+++++	143192	0.000
(3)	+++++	+++++	266772	+++++	+++++	266772	0.000
(4)	+++++	+++++	376124	+++++	+++++	376124	0.000
10 Heptachlor	2454200	2506000	2573600	2707360	2806370	2609506	5.568
11 Aldrin	2294000	2475300	2527680	2812680	2860280	2593988	9.188
12 Heptachlor epoxide	2430000	2667900	2670520	2880040	2866070	2702906	6.791
13 gamma-Chlordane	2786000	2955200	2875160	3175600	3145120	2987416	5.663
14 alpha-Chlordane	2743400	2950000	2881600	3118780	3104620	2959680	5.323
15 Endosulfan I	2676600	2705600	2753360	2840320	2863280	2767832	2.956
16 4,4'-DDE	2826400	3096300	3002640	3253240	3216860	3079088	5.609
17 Dieldrin	2949400	3040100	3102800	3237560	3354590	3136890	5.121
18 Toxaphene(1)	+++++	+++++	35239	+++++	+++++	35239	0.000
(2)	+++++	+++++	30359	+++++	+++++	30359	0.000
(3)	+++++	+++++	20188	+++++	+++++	20188	0.000
(4)	+++++	+++++	35787	+++++	+++++	35787	0.000
19 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Endrin	2432400	2520400	2478840	2581500	2685530	2539734	3.868
21 4,4'-DDD	2408800	2409300	2344200	2402980	2434090	2399874	1.390

6E
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D01701

663 380

Report Date : 28-Jun-2000 17:43

STL-PITTSBURGH

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2000 12:13
End Cal Date : 28-JUN-2000 17:01
Quant Method : ESTD
Origin : Disabled
Target Version : 3.40
Integrator : Falcon
Method file : /var/chem/gc4.i/3270-G.b/PESTB.m
Cal Date : 28-Jun-2000 17:43 g
Curve Type : Average

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRP	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
22 Endosulfan II	2829600	2936200	2651360	2901800	2788190	2821430	3.952
23 4,4'-DDT	2237800	2338400	2312680	2395460	2470770	2351022	3.730
24 Endrin aldehyde	1237400	1335100	1315880	1401220	1388870	1335694	4.906
25 Methoxychlor	1114500	1149300	1143780	1159080	1174435	1148219	1.929
26 Endosulfan sulfate	1718000	1863700	1806240	1930480	1902920	1844268	4.588
27 Endrin ketone	2024000	2119500	2066640	2216620	2133290	2112010	3.452
28 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 1 Tetrachloro-m-xylene	2228000	2211100	2135360	2126940	2052580	2150796	3.292
\$ 30 Decachlorobiphenyl	1611200	1684700	1692320	1672080	1667150	1665490	1.918

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

663 381

Lab Name: STL-PITTSBURGH Contract:
 Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: SDGA18738
 GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 06/28/00 06/28/00

EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 06/28/00
 Lab Sample ID (PEM): EVALB Time Analyzed : 1147

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	15.62	15.57	15.67	0.02467	0.02500	-1.3
4,4'-DDT	16.53	16.48	16.58	0.02638	0.02500	5.5

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 0.00
 Combined % breakdown (1): _____

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

663 382

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: SDGA18738
GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 06/28/00 06/28/00

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM): _____

Date Analyzed : 06/28/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 1819

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	15.62	15.57	15.67	0.02394	0.02500	-4.2
4,4'-DDT	16.54	16.48	16.58	0.02507	0.02500	0.3

4,4'-DDT % breakdown (1): 0.00

Endrin % breakdown (1): ~~8.66~~

Combined % breakdown (1): ~~8.66~~ 4.5

4.5

UM
6/29/00

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

663 383

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: SDGA18738

GC Column: DB1701

ID: 0.53

(mm)

Init. Calib. Date(s): 06/28/00 06/29/00

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 07/03/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 0852

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	15.61	15.56	15.66	0.02634	0.02500	5.4
4,4'-DDT	16.52	16.47	16.57	0.02736	0.02500	9.4

4,4'-DDT % breakdown (1): 0.00

Endrin % breakdown (1): ~~7.64~~

Combined % breakdown (1): ~~7.64~~

3.7

3.7

lm/6 7/3/00

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16170

Data File: /var/chem/gc4.i/4030-G.b/d-b3784.d
Report Date: 03-Jul-2000 11:29

663 384

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: d-b3784.d
Analysis Type:
Lab Sample ID: MEDTOX
Quant Type: ESTD

Injection Date: 03-JUL-2000 09:18
Init. Calibration Date(s): 06/28/0 06/29/0
Init. Calibration Times: 12:13 18:14
Method File: /var/chem/gc4.i/4030-G.b/PESTB.m

COMPOUND	RRF	RFO	MIN	RRF	%D	MAX
-----	-----	-----	-----	-----	-----	-----
18 Toxaphene(1)	35239.000	37090.000	0.010	-5.3	15.0	
(2)	30359.000	31556.000	0.010	-3.9	15.0	
(3)	20188.000	21986.000	0.010	-8.9	15.0	
(4)	35787.000	38709.000	0.010	-8.2	15.0	
\$ 1 Tetrachloro-m-xylene	2150796.000	2340640.000	0.000	-8.8	15.0	
\$ 30 Decachlorobiphenyl	1665490.000	1807520.000	0.010	-8.5	15.0	

Data File: /var/chem/gc4.i/4030-G.b/d-b3785.d
Report Date: 03-Jul-2000 11:29

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10174

663 385

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 03-JUL-2000 09:45
Lab File ID: d-b3785.d Init. Calibration Date(s): 06/28/0 06/29/0
Analysis Type: Init. Calibration Times: 12:13 18:14
Lab Sample ID: MEDCHLOR Method File: /var/chem/gc4.i/4030-G.b/PESTB.m
Quant Type: ESTD

COMPOUND	RRF	RF0	MIN	MAX
9 Chlordane(1)	65344.000	76196.000	0.010	-16.6
(2)	143192.000	164796.000	0.010	-15.1
(3)	266772.000	292528.000	0.010	-9.7
(4)	376124.000	413104.000	0.010	-9.8
\$ 1 Tetrachloro-m-xylene	2150796.000	2398040.000	0.000	-11.5
\$ 30 Decachlorobiphenyl	1665490.000	1871120.000	0.010	-12.3

AVE=12.5

Data File: /var/chem/gc4.i/4030-G.b/d-b3786.d
Report Date: 03-Jul-2000 11:29

589046

10/17/00

663 386

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: d-b3786.d
Analysis Type:
Lab Sample ID: MEDA
Quant Type: ESTD

Injection Date: 03-JUL-2000 10:11
Init. Calibration Date(s): 06/28/0 06/29/0
Init. Calibration Times: 12:13 18:14
Method File: /var/chem/gc4.i/4030-G.b/PESTB.m

COMPOUND	RRF	RF0	MIN	MAX
1 Tetrachloro-m-xylene	2150796.000	2373000.000	0.000	-10.3
5 alpha-BHC	2789374.000	3034840.000	0.010	-8.8
6 gamma-BHC (Lindane)	2412262.000	2659360.000	0.010	-10.2
10 Heptachlor	2609506.000	2884720.000	0.010	-10.5
15 Endosulfan I	2767832.000	3004560.000	0.010	-8.6
17 Dieldrin	3136890.000	3323720.000	0.010	-6.0
20 Endrin	2539734.000	2572960.000	0.010	-1.3
21 4,4'-DDD	2399874.000	2467600.000	0.010	-2.8
23 4,4'-DDT	2351022.000	2548360.000	0.010	-8.4
25 Methoxychlor	1148219.000	1201680.000	0.010	-4.7
30 Decachlorobiphenyl	1665490.000	1791160.000	0.010	-7.5

Data File: /var/chem/gc4.i/4030-G.b/d-b3787.d
Report Date: 03-Jul-2000 11:29

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663 387

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 03-JUL-2000 10:37
Lab File ID: d-b3787.d Init. Calibration Date(s): 06/28/00 06/29/00
Analysis Type: Init. Calibration Times: 12:13 18:14
Lab Sample ID: MEDB Method File: /var/chem/gc4.i/4030-G.b/PESTB.m
Quant Type: ESTD

COMPOUND	RRF	RFO	MIN	MAX
11 Aldrin	2593988.000	2825040.000	0.010	-8.9 15.0
7 beta-BHC	1387670.000	1509480.000	0.010	-8.8 15.0
8 delta-BHC	2678776.000	2818600.000	0.010	-5.2 15.0
12 Heptachlor epoxide	2702906.000	2923760.000	0.010	-8.2 15.0
13 gamma-Chlordane	2987416.000	3187440.000	0.010	-6.7 15.0
14 alpha-Chlordane	2959680.000	3217920.000	0.010	-8.7 15.0
16 4,4'-DDE	3079088.000	3275160.000	0.010	-6.4 15.0
22 Endosulfan II	2821430.000	2869400.000	0.010	-1.7 15.0
24 Endrin aldehyde	1335694.000	1442920.000	0.010	-8.0 15.0
26 Endosulfan sulfate	1844268.000	1921640.000	0.010	-4.2 15.0
27 Endrin ketone	2112010.000	2254200.000	0.010	-6.7 15.0

Data File: /var/chem/gc4.i/4030-G.b/d-b3808.d
Report Date: 05-Jul-2000 09:57

58904B
10/1/01

663 388

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: d-b3808.d
Analysis Type:
Lab Sample ID: MEDA
Quant Type: ESTD

Injection Date: 03-JUL-2000 19:45
Init. Calibration Date(s): 06/28/0 06/29/0
Init. Calibration Times: 12:13 18:14
Method File: /var/chem/gc4.i/4030-G.b/PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
1 Tetrachloro-m-xylene	2150796.000	2315000.000	0.000	-7.6
5 alpha-BHC	2789374.000	3026400.000	0.010	-8.5
6 gamma-BHC (Lindane)	2412262.000	2613240.000	0.010	-8.3
10 Heptachlor	2609506.000	2798800.000	0.010	-7.3
15 Endosulfan I	2767832.000	2919360.000	0.010	-5.5
17 Dieldrin	3136890.000	3317920.000	0.010	-5.8
20 Endrin	2539734.000	2729000.000	0.010	-7.5
21 4,4'-DDD	2399874.000	2524280.000	0.010	-5.2
23 4,4'-DDT	2351022.000	2522800.000	0.010	-7.3
25 Methoxychlor	1148219.000	1211220.000	0.010	-5.5
30 Decachlorobiphenyl	1665490.000	1806320.000	0.010	-8.5

Data File: /var/chem/gc4.i/4030-G.b/d-b3809.d
Report Date: 05-Jul-2000 09:57

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DB1701

663 389

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i
Lab File ID: d-b3809.d
Analysis Type:
Lab Sample ID: MEDB
Quant Type: ESTD

Injection Date: 03-JUL-2000 20:11
Init. Calibration Date(s): 06/28/0 06/29/0
Init. Calibration Times: 12:13 18:14
Method File: /var/chem/gc4.i/4030-G.b/PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
11 Aldrin	2593988.000	2721680.000	0.010	-4.9 15.0
7 beta-BHC	1387670.000	1479080.000	0.010	-6.6 15.0
8 delta-BHC	2678776.000	2799080.000	0.010	-4.5 15.0
12 Heptachlor epoxide	2702906.000	2858000.000	0.010	-5.7 15.0
13 gamma-Chlordane	2987416.000	3116080.000	0.010	-4.3 15.0
14 alpha-Chlordane	2959680.000	3133080.000	0.010	-5.9 15.0
16 4,4'-DDE	3079088.000	3172360.000	0.010	-3.0 15.0
22 Endosulfan II	2821430.000	2840120.000	0.010	-0.7 15.0
24 Endrin aldehyde	1335694.000	1422880.000	0.010	-6.5 15.0
26 Endosulfan sulfate	1844268.000	1935360.000	0.010	-4.9 15.0
27 Endrin ketone	2112010.000	2222280.000	0.010	-5.2 15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

663 390

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.: SAS No.: 40325 SDG No.: C0F300207

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 06/28/00 06/28/00

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
EPA SAMPLE NO.		LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #
					DCB RT #
01		EVALB	06/28/00	1147	5.70 21.04
02		MEDTOX	06/28/00	1213	5.71 21.04
03		MEDCHLOR	06/28/00	1239	5.71 21.05
04		LOWA	06/28/00	1305	5.70 21.04
05		MLOWA	06/28/00	1332	5.70 21.04
06		MEDA	06/28/00	1358	5.70 21.05
07		MHIGHA	06/28/00	1424	5.71 21.04
08		HIGHA	06/28/00	1450	5.70 21.05
09		LOWB	06/28/00	1516	
10		MLOWB	06/28/00	1542	
11		MEDB	06/28/00	1608	
12		MHIGHB	06/28/00	1635	
13		HIGHB	06/28/00	1701	
14		2ND A	06/28/00	1727	5.70 21.04
15		2ND B	06/28/00	1753	
16		EVALB	06/28/00	1819	5.71 21.05
17		EVALB	07/03/00	0852	5.69 21.01
18		MEDTOX	07/03/00	0918	5.69 21.01
19		MEDCHLOR	07/03/00	0945	5.69 21.01
20		MEDA	07/03/00	1011	5.69 21.02
21		MEDB	07/03/00	1037	
22	DF/SI/0181/I	DFKQ3103	07/03/00	1406	5.69 21.01
23	PBLK1	DFN8M101	07/03/00	1432	5.69 21.01
24	LCS1	DFN8M102	07/03/00	1458	5.69 21.01
25	LCD1	DFN8M103	07/03/00	1524	5.69 21.01
26		MEDA	07/03/00	1945	5.69 21.01
27		MEDB	07/03/00	2011	
28					
29					
30					
31					
32					

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.05 MINUTES)

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

Data File: /var/chem/gc4.i/3270-G.b/d-b3658.d
 Report Date: 28-Jun-2000 17:44

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3658.d
 Lab Smp Id: EVALB
 Inj Date : 28-JUN-2000 11:47
 Operator : 1891 Inst ID: gc4.i
 Smp Info : EVALB,3270-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol Quant Type: ESTD
 Cal Date : 28-JUN-2000 17:01 Cal File: d-b3670.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 3.40

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.700	5.700	0.000	43307	0.02014	0.02014 (R)
16 4,4'-DDE				Compound Not Detected.		
20 Endrin	15.620	15.620	0.000	62660	0.02467	0.02467
21 4,4'-DDD				Compound Not Detected.		
23 4,4'-DDT	16.533	16.533	0.000	62014	0.02638	0.02638
24 Endrin aldehyde				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	21.040	21.047	-0.007	33867	0.02033	0.02033 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

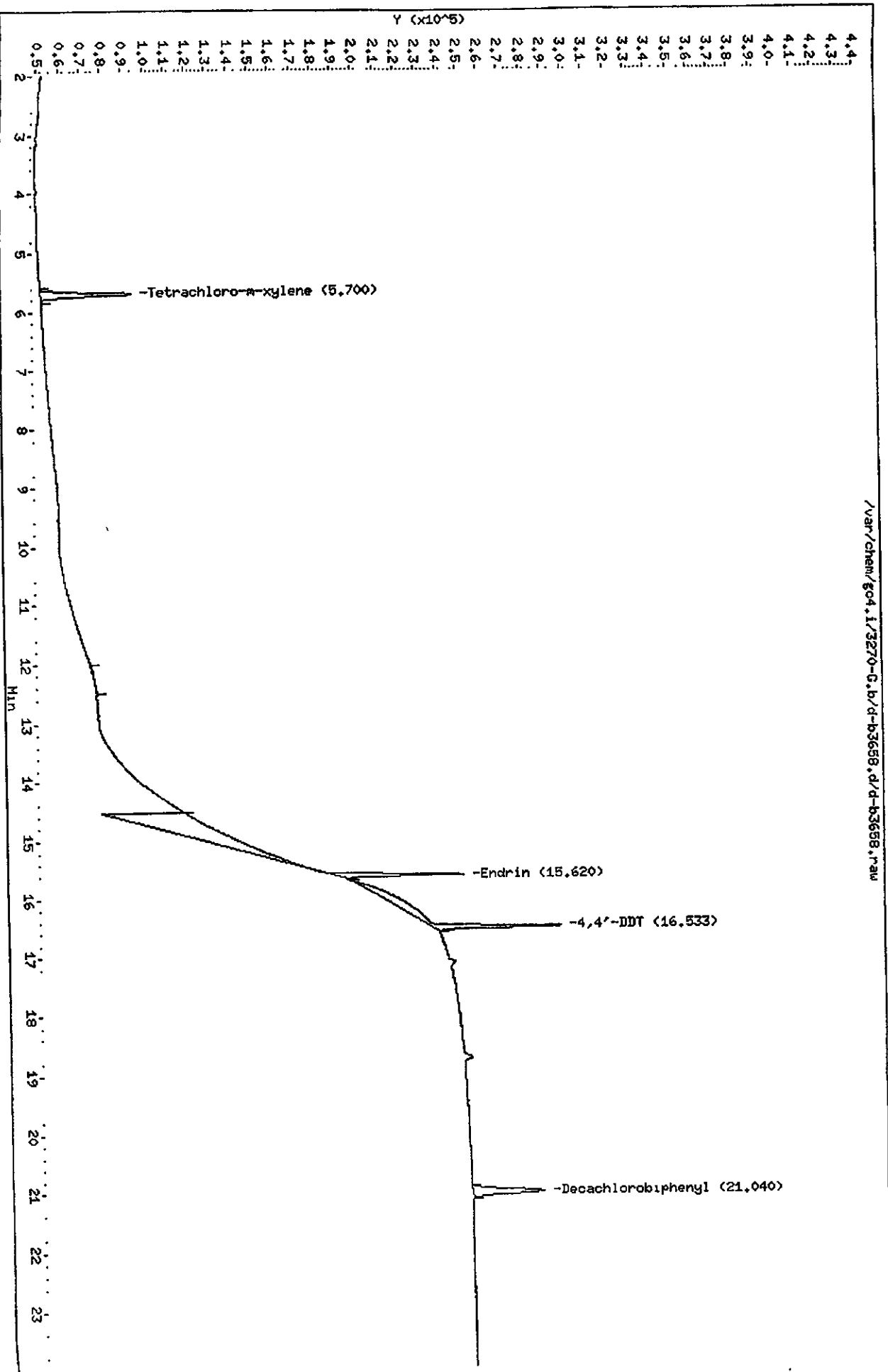
Endrin = 0

DDT = 0

Data File: /var/chem/804.1/3270-G.b/d-b3658.d
Date: 28-JUN-2000 11:47
Client ID:
Sample Info: EVALB,3270-G.b,,EVALBR,sub,,3,1

Column phase: DBA701

Instrument: 804.1
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3659.d
 Report Date: 28-Jun-2000 17:44

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3659.d
 Lab Smp Id: MEDTOX
 Inj Date : 28-JUN-2000 12:13
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDTOX,3270-G.b,,1-TOX.sub,,1,3
 Misc Info : 190-84-13
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol Quant Type: ESTD
 Cal Date : 28-JUN-2000 12:13 Cal File: d-b3659.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1-TOX.sub
 Target Version: 3.40

Compounds	AMOUNTS					ON-COL (ng)
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	
=====	==	=====	=====	=====	=====	=====
18 Toxaphene	16.100	16.100	0.000	35239	1.00000	1.000
\$ 1 Tetrachloro-m-xylene	5.707	5.700	0.007	53583	0.02500	0.02500
\$ 30 Decachlorobiphenyl	21.040	21.047	-0.007	41420	0.02500	0.02500

Data File: /var/chem/gc4.i/3270-G.b/d-b3659.d

Date: 28-JUN-2000 12:13

Client ID:

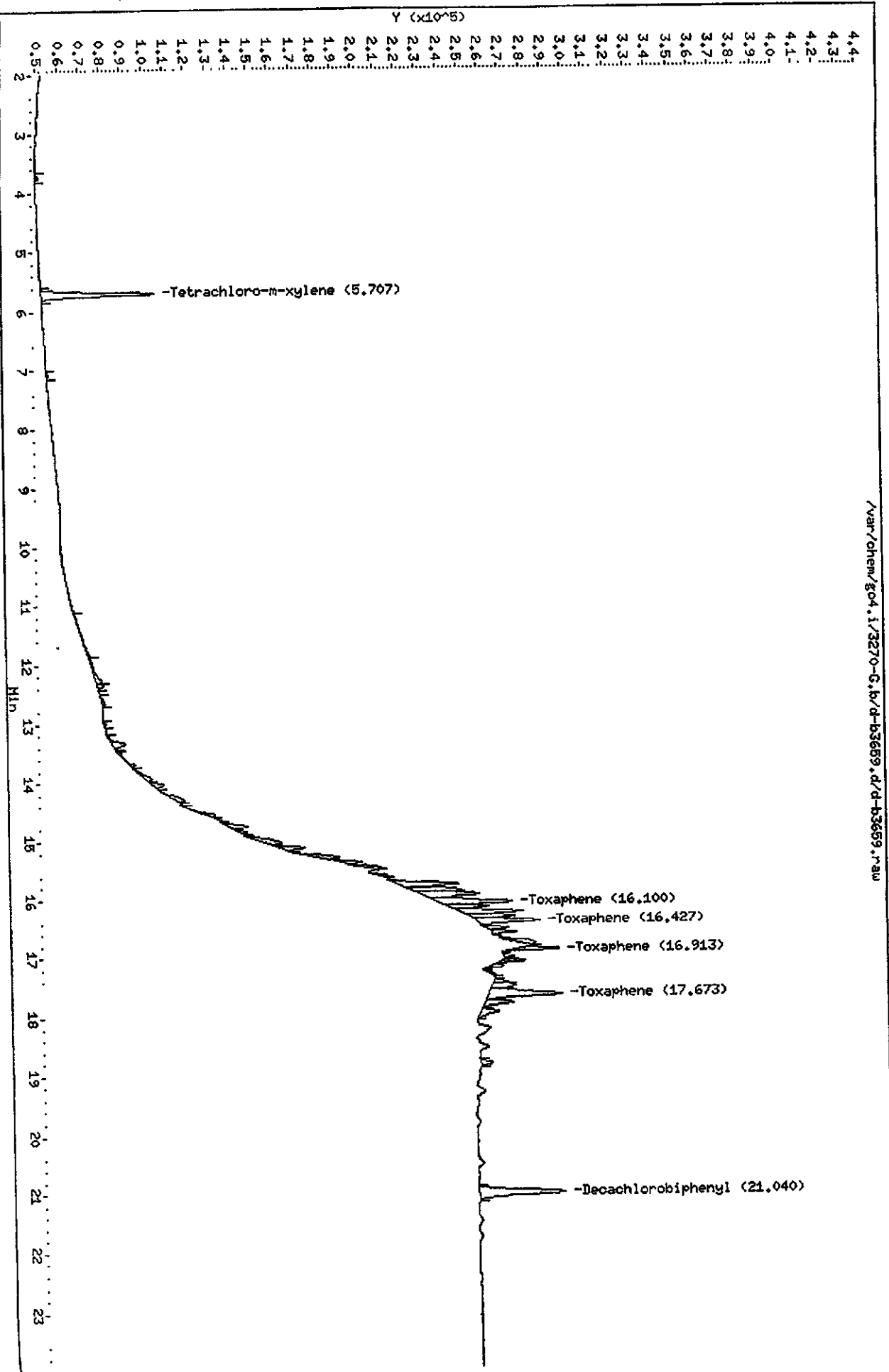
Sample Info: MEDTOX,3270-G.b,1-TOX,sub,1,3

Column phase: DB1701

Instrument: gc4.i

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3660.d
 Report Date: 28-Jun-2000 17:44

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3660.d
 Lab Smp Id: MEDCHLOR
 Inj Date : 28-JUN-2000 12:39
 Operator : 1891
 Smp Info : MEDCHLOR,3270-G.b,,2-CHLO.sub,,1,3
 Misc Info : 190-85-10
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol
 Cal Date : 28-JUN-2000 12:39
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-b3660.d
 Calibration Sample, Level: 3
 Compound Sublist: 2-CHLO.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
9 Chlordane	10.280	10.280	0.000	16336	0.25000	0.2500
\$ 1 Tetrachloro-m-xylene	5.707	5.700	0.007	53905	0.02500	0.02500
\$ 30 Decachlorobiphenyl	21.047	21.047	0.000	42854	0.02500	0.02500

Data File: /var/chem/gc04.i/3270-G,b/d-b3660.d

Date: 28-JUN-2000 12:39

Client ID:

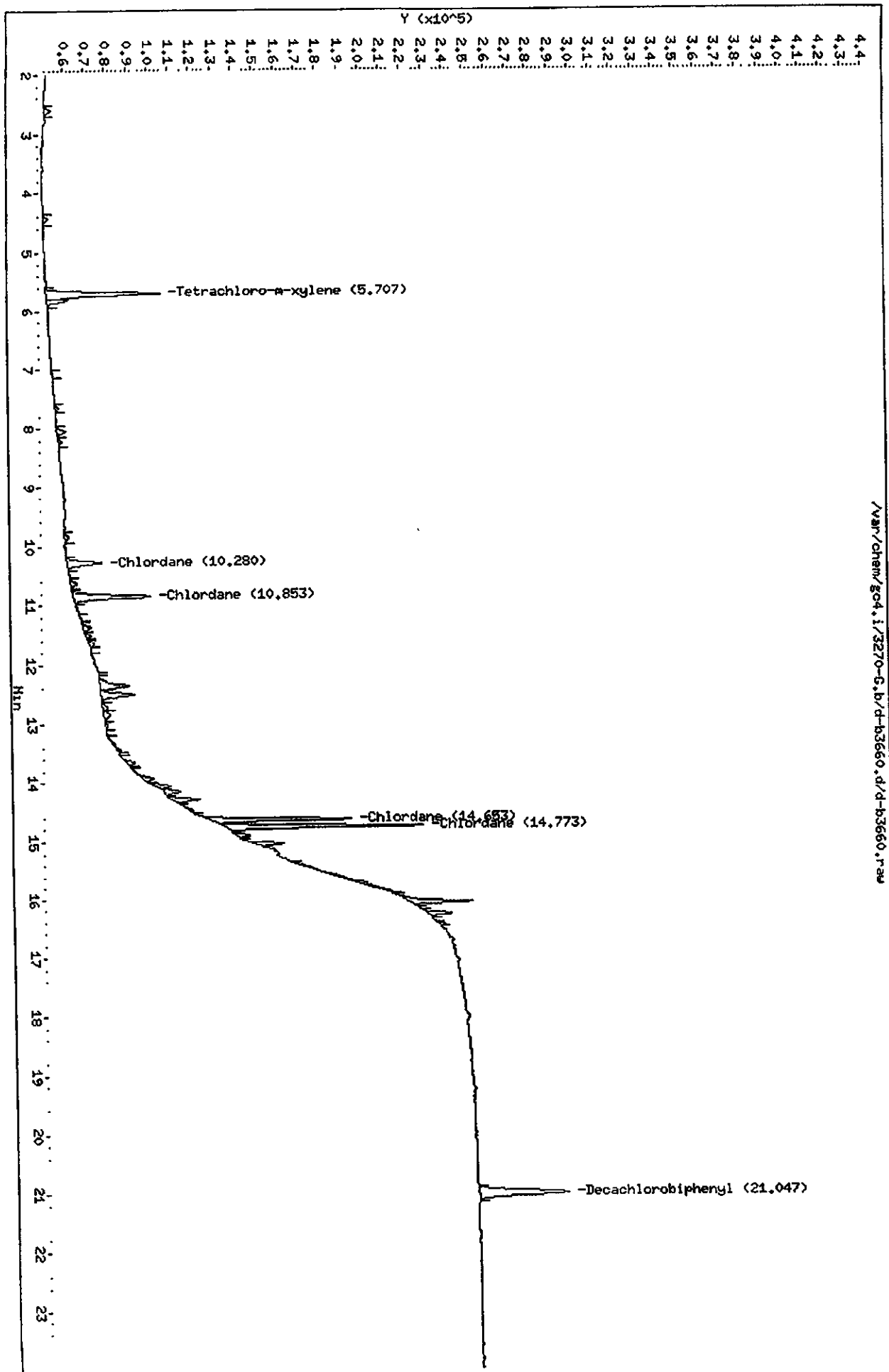
Sample Info: HEDCHLOR,3270-G,b,,2-CHL0,sub,,1,3

Column phase: DB1701

Instrument: gc04.i

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3661.d
 Report Date: 28-Jun-2000 17:44

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3661.d
 Lab Smp Id: LOWA
 Inj Date : 28-JUN-2000 13:05
 Operator : 1891 Inst ID: gc4.i
 Smp Info : LOWA,3270-G.b,,3-INDA.sub,,1,1
 Misc Info : 190-84-1
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol Quant Type: ESTD
 Cal Date : 28-JUN-2000 16:08 Cal File: d-b3668.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 3.40

Compounds	AMOUNTS				ON-COL	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	(ng)
-----	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.700	5.700	0.000	11140	0.00500	0.005106
5 alpha-BHC	8.587	8.587	0.000	11869	0.00500	0.004622
6 gamma-BHC (Lindane)	10.020	10.020	0.000	10773	0.00500	0.004753
10 Heptachlor	10.847	10.847	0.000	12271	0.00500	0.004881
15 Endosulfan I	14.553	14.553	0.000	13383	0.00500	0.004929
17 Dieldrin	15.267	15.267	0.000	14747	0.00500	0.004873
20 Endrin	15.620	15.620	0.000	12162	0.00500	0.004953
21 4,4'-DDD	16.240	16.240	0.000	12044	0.00500	0.005068
23 4,4'-DDT	16.540	16.533	0.007	11189	0.00500	0.004918
25 Methoxychlor	17.647	17.647	0.000	11145	0.01000	0.009870
\$ 30 Decachlorobiphenyl	21.040	21.047	-0.007	8056	0.00500	0.004877

Data File: /var/chem/gc4.i/3270-G.b/d-b3661.d

Date: 28-JUN-2000 13:06

Client ID:

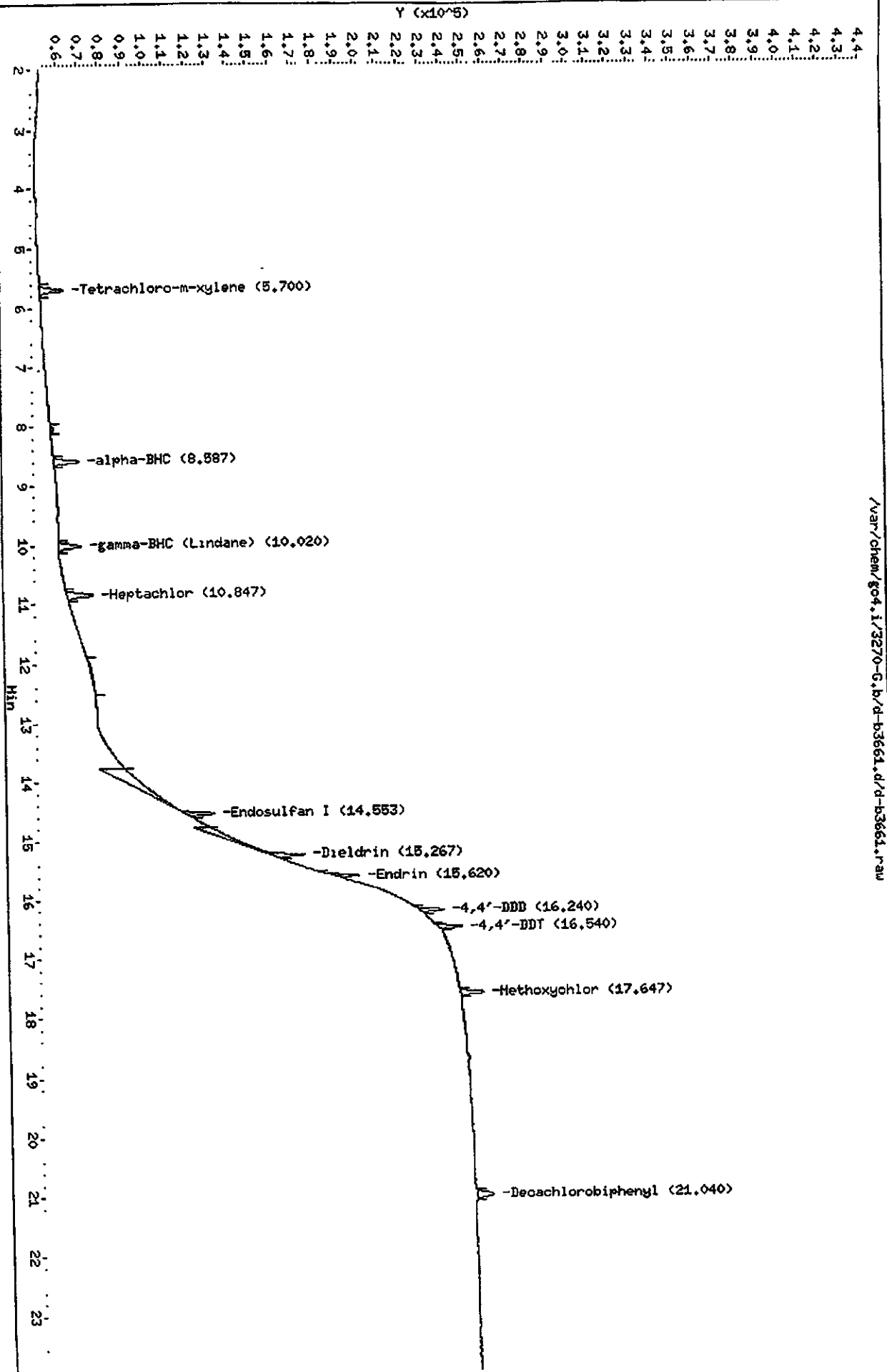
Sample Info: LOM0,3270-G.b/,3-INDA,sub,1,1

Column phase: DB1701

Instrument: gc4.i

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3662.d
 Report Date: 28-Jun-2000 17:44

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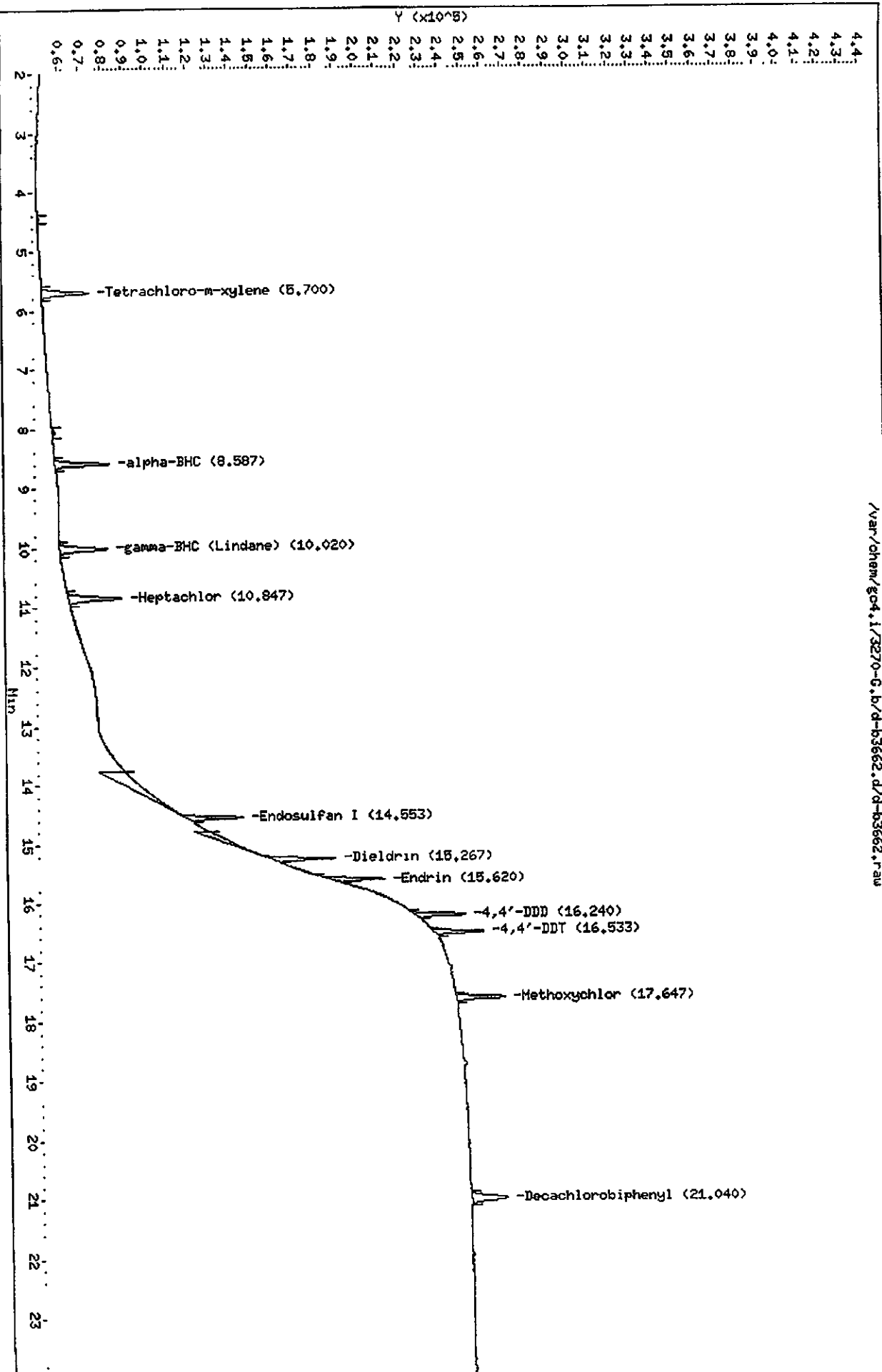
Data file : /var/chem/gc4.i/3270-G.b/d-b3662.d
 Lab Smp Id: MLOWA
 Inj Date : 28-JUN-2000 13:32
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MLOWA,3270-G.b,,3-INDA.sub,,1,2
 Misc Info : 190-84-2
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol Quant Type: ESTD
 Cal Date : 28-JUN-2000 16:08 Cal File: d-b3668.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 3.40

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.700	5.700	0.000	22111	0.01000	0.01009
5 alpha-BHC	8.587	8.587	0.000	25386	0.01000	0.009924
6 gamma-BHC (Lindane)	10.020	10.020	0.000	22313	0.01000	0.009895
10 Heptachlor	10.847	10.847	0.000	25060	0.01000	0.009979
15 Endosulfan I	14.553	14.553	0.000	27056	0.01000	0.009977
17 Dieldrin	15.267	15.267	0.000	30401	0.01000	0.01003
20 Endrin	15.620	15.620	0.000	25204	0.01000	0.01017
21 4,4'-DDD	16.240	16.240	0.000	24093	0.01000	0.01009
23 4,4'-DDT	16.533	16.533	0.000	23384	0.01000	0.01018
25 Methoxychlor	17.647	17.647	0.000	22986	0.02000	0.02024
\$ 30 Decachlorobiphenyl	21.040	21.047	-0.007	16847	0.01000	0.01013

Data File: /var/chem/gc4.i/3270-G.b/d-b3662.d
Date: 28-JUN-2000 13:32
Client ID:
Sample Info: MCMQ, 3270-G.b, 3-INDR, sub, 1,2

Column phase: DB1701

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3663.d
 Report Date: 28-Jun-2000 17:44

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Data file : /var/chem/gc4.i/3270-G.b/d-b3663.d
 Lab Smp Id: MEDA
 Inj Date : 28-JUN-2000 13:58
 Operator : 1891
 Smp Info : MEDA,3270-G.b,,3-INDA.sub,,1,3
 Misc Info : 190-84-3
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol
 Cal Date : 28-JUN-2000 13:58
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-b3663.d
 Calibration Sample, Level: 3
 Compound Sublist: 3-INDA.sub

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL-AMT	ON-COL
						(ng)	(ng)
\$ 1 Tetrachloro-m-xylene	5.700	5.700	0.000	53384		0.02500	0.02500
5 alpha-BHC	8.587	8.587	0.000	69043		0.02500	0.02500
6 gamma-BHC (Lindane)	10.020	10.020	0.000	59472		0.02500	0.02500
10 Heptachlor	10.847	10.847	0.000	64340		0.02500	0.02500
15 Endosulfan I	14.553	14.553	0.000	68834		0.02500	0.02500
17 Dieldrin	15.267	15.267	0.000	77570		0.02500	0.02500
20 Endrin	15.620	15.620	0.000	61971		0.02500	0.02500
21 4,4'-DDD	16.240	16.240	0.000	58605		0.02500	0.02500
23 4,4'-DDT	16.533	16.533	0.000	57817		0.02500	0.02500
25 Methoxychlor	17.647	17.647	0.000	57189		0.05000	0.05000
\$ 30 Decachlorobiphenyl	21.047	21.047	0.000	42308		0.02500	0.02500

Data File: /var/chem/gc4.1/3270-G.b/d-b3663.d

Date: 28-JUN-2000 13:58

Client ID:

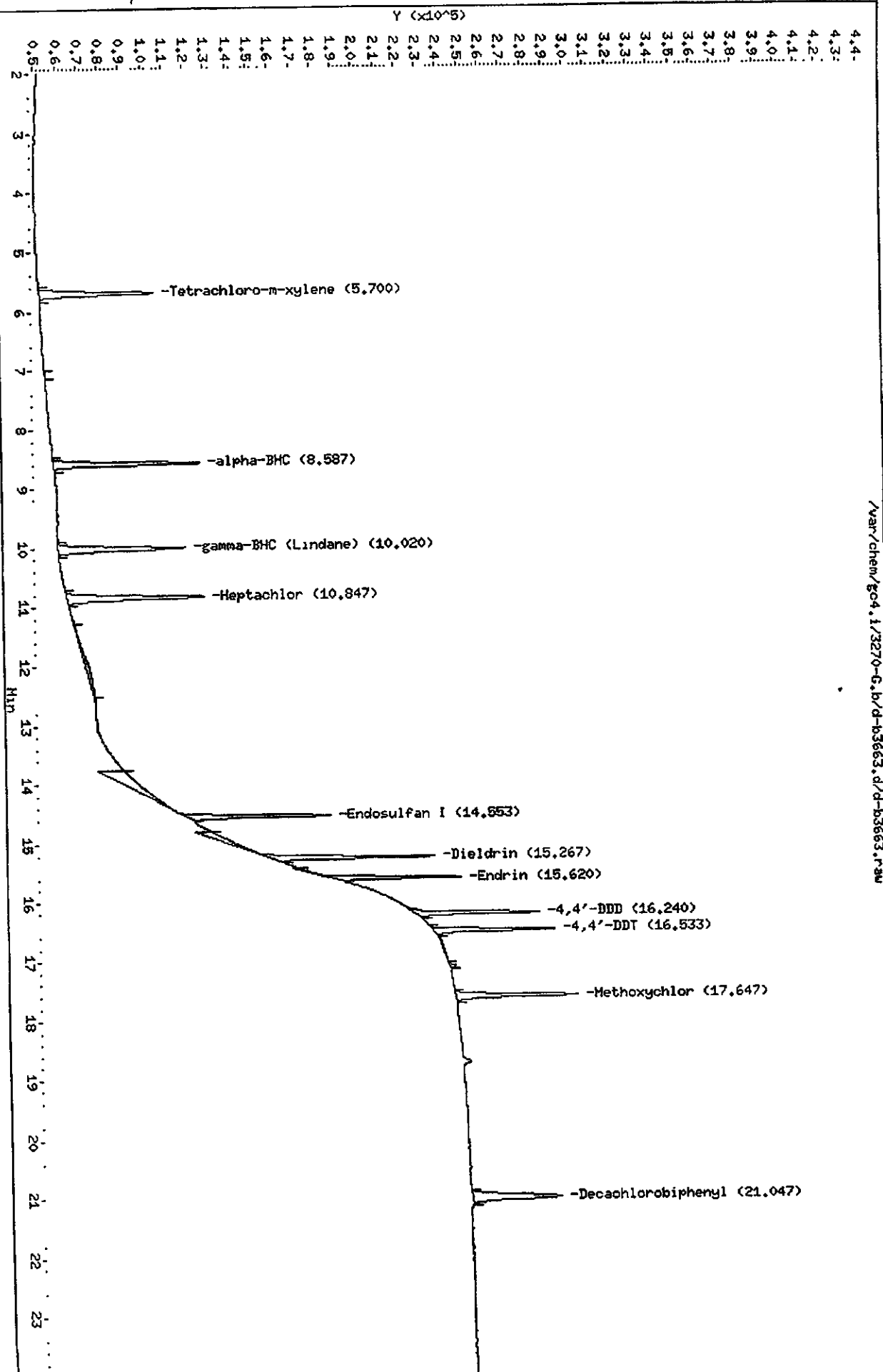
Sample Info: HEDR, 3270-G.b, 3-INDR, sub, 1, 3

Column Phase: DB1701

Instrument: GC4.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3664.d
 Report Date: 28-Jun-2000 17:44

STL-PITTSBURGH

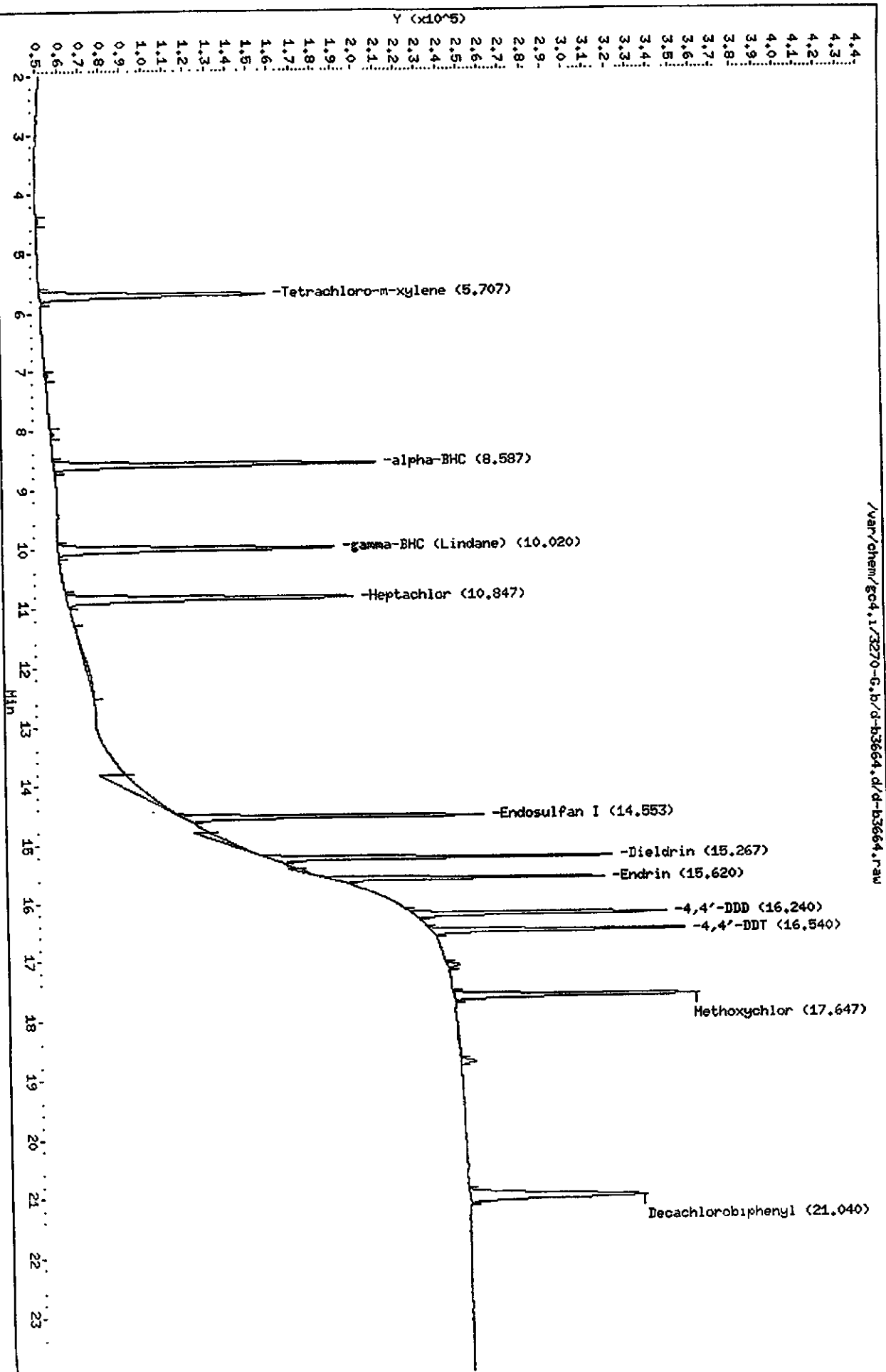
Data file : /var/chem/gc4.i/3270-G.b/d-b3664.d
 Lab Smp Id: MHIGHA
 Inj Date : 28-JUN-2000 14:24
 Operator : 1891
 Smp Info : MHIGHA,3270-G.b,,3-INDA.sub,,1,4
 Misc Info : 190-84-4
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol
 Cal Date : 28-JUN-2000 16:08
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-b3668.d
 Calibration Sample, Level: 4
 Compound Sublist: 3-INDA.sub

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.707	5.700	0.007	106347	0.05000	0.04889
5 alpha-BHC	8.587	8.587	0.000	152345	0.05000	0.05684
6 gamma-BHC (Lindane)	10.020	10.020	0.000	130591	0.05000	0.05571
10 Heptachlor	10.847	10.847	0.000	135368	0.05000	0.05287
15 Endosulfan I	14.553	14.553	0.000	142016	0.05000	0.05176
17 Dieldrin	15.267	15.267	0.000	161878	0.05000	0.05252
20 Endrin	15.620	15.620	0.000	129075	0.05000	0.05156
21 4,4'-DDD	16.240	16.240	0.000	120149	0.05000	0.05024
23 4,4'-DDT	16.540	16.533	0.007	119773	0.05000	0.05160
25 Methoxychlor	17.647	17.647	0.000	115908	0.10000	0.1015
\$ 30 Decachlorobiphenyl	21.040	21.047	-0.007	83604	0.05000	0.05021

Data File: /var/chem/gc04.1/3270-G.b/d-b3664.d
Date: 28-JUN-2000 14:24
Client ID:
Sample Info: HHCHA/3270-G.b, 3-INDA.sub, 1,4
Column phase: DB1701

Instrument: GC04.1
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3665.d
 Report Date: 28-Jun-2000 17:44

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Data file : /var/chem/gc4.i/3270-G.b/d-b3665.d
 Lab Smp Id: HIGHA
 Inj Date : 28-JUN-2000 14:50
 Operator : 1891
 Smp Info : HIGHA, 3270-G.b, , 3-INDA.sub, , 1, 5
 Misc Info : 190-84-5
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol
 Cal Date : 28-JUN-2000 16:08
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-b3668.d
 Calibration Sample, Level: 5
 Compound Sublist: 3-INDA.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	***	*****	*****	*****	*****	*****
\$ 1 Tetrachloro-m-xylene	5.700	5.700	0.000	205258	0.10000	0.09543
5 alpha-BHC	8.587	8.587	0.000	322585	0.10000	0.1156(A)
6 gamma-BHC (Lindane)	10.020	10.020	0.000	268471	0.10000	0.1113(A)
10 Heptachlor	10.847	10.847	0.000	280637	0.10000	0.1075(A)
15 Endosulfan I	14.553	14.553	0.000	286328	0.10000	0.1034(A)
17 Dieldrin	15.267	15.267	0.000	335459	0.10000	0.1069(A)
20 Endrin	15.620	15.620	0.000	268553	0.10000	0.1057(A)
21 4,4'-DDD	16.240	16.240	0.000	243409	0.10000	0.1014(A)
23 4,4'-DDT	16.540	16.533	0.007	247077	0.10000	0.1051(A)
25 Methoxychlor	17.647	17.647	0.000	234887	0.20000	0.2046(A)
\$ 30 Decachlorobiphenyl	21.047	21.047	0.000	166715	0.10000	0.1001(A)

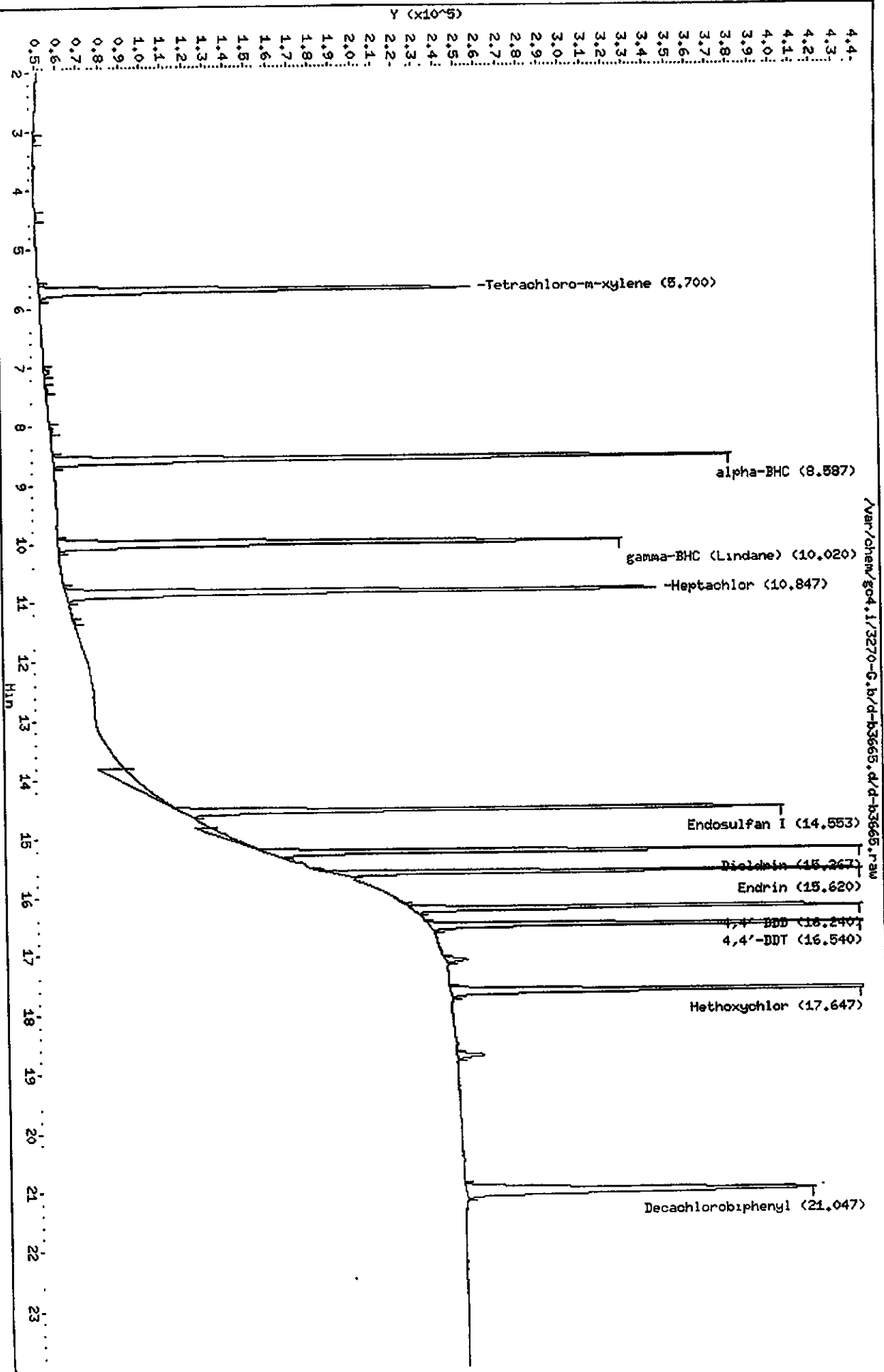
QC Flag Legend

A - Target compound detected but, quantitated amount
 exceeded maximum amount.

Data File: /var/chem/gc4.1/3270-G.b/d-b3665.d
 Date: 28-JUN-2000 14:50
 Client ID:
 Sample Info: HIGH4,3270-G.b,3-INDA.sub,1,5

Column Phase: DB1701

Instrument: gc4.1
 Operator: 1891
 Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3666.d
 Report Date: 28-Jun-2000 17:44

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3666.d
 Lab Smp Id: LOWB
 Inj Date : 28-JUN-2000 15:16
 Operator : 1891 Inst ID: gc4.i
 Smp Info : LOWB,3270-G.b,,4-INDB.sub,,1,1
 Misc Info : 190-84-7
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol Quant Type: ESTD
 Cal Date : 28-JUN-2000 16:08 Cal File: d-b3668.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 3.40

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	**	*****	*****	*****	*****	*****
11 Aldrin	11.793	11.793	0.000	11470	0.00500	0.004758
7 beta-BHC	12.507	12.500	0.007	6757	0.00500	0.004999
8 delta-BHC	13.347	13.347	0.000	11250	0.00500	0.004615
12 Heptachlor epoxide	13.900	13.893	0.007	12150	0.00500	0.004764
13 gamma-Chlordane	14.647	14.647	0.000	13930	0.00500	0.004921
14 alpha-Chlordane	14.767	14.760	0.007	13717	0.00500	0.004877
16 4,4'-DDE	14.947	14.947	0.000	14132	0.00500	0.004849
22 Endosulfan II	16.387	16.387	0.000	14148	0.00500	0.005162
24 Endrin aldehyde	17.127	17.120	0.007	6187	0.00500	0.004846
26 Endosulfan sulfate	17.753	17.747	0.006	8590	0.00500	0.004875
27 Endrin ketone	18.747	18.747	0.000	10120	0.00500	0.004948

Data File: /var/chem/gc4.1/3270-G.b/d-b3666.d

Date: 28-JUN-2000 15:16

Client ID:

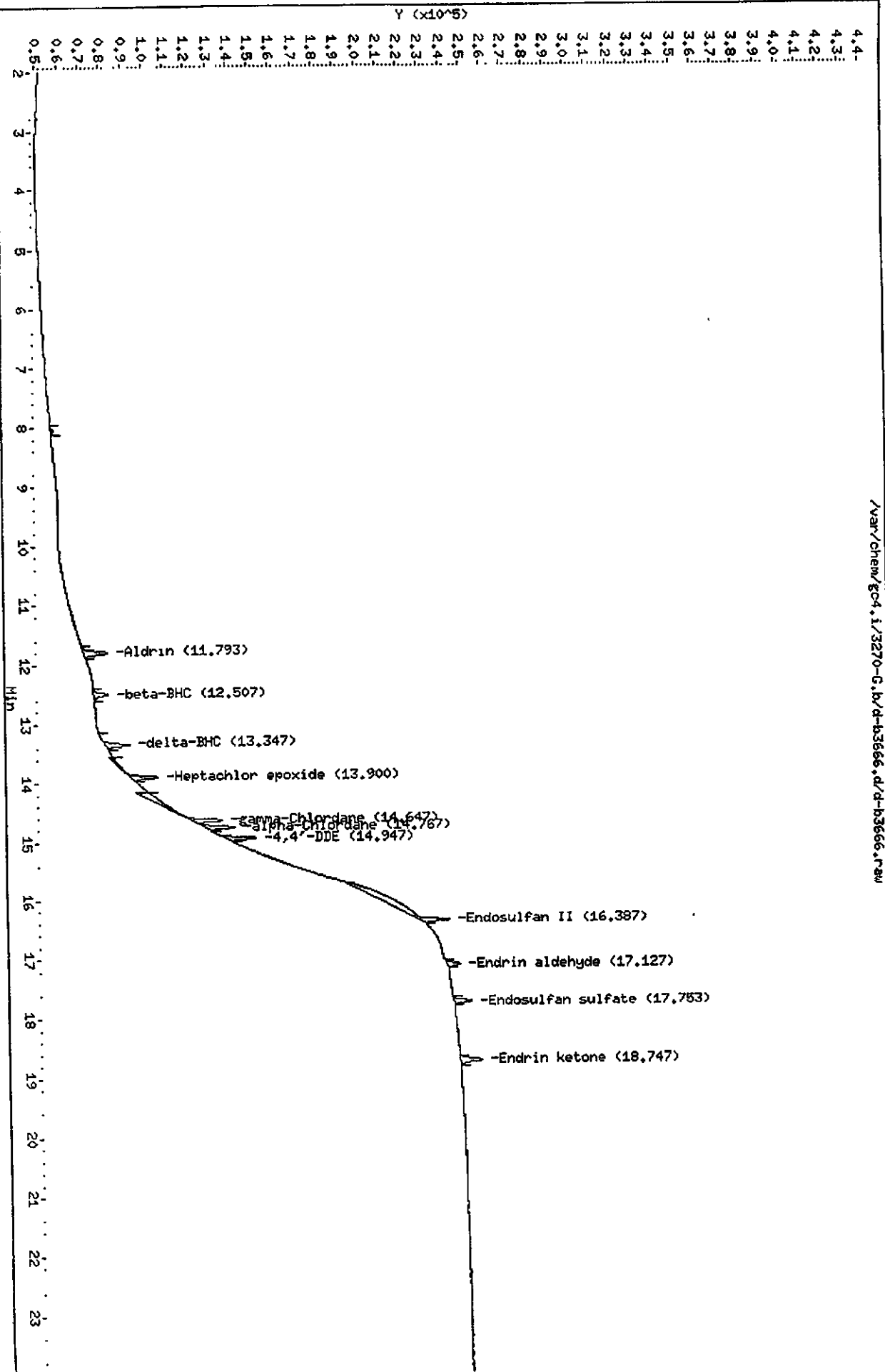
Sample Info: LOMB,3270-G.b,,4-INDB.sub,,1.1

Column phase: DB1701

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3667.d
 Report Date: 28-Jun-2000 17:44

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3667.d
 Lab Smp Id: MLOWB
 Inj Date : 28-JUN-2000 15:42
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MLOWB,3270-G.b,,4-INDB.sub,,1,2
 Misc Info : 190-84-8
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol Quant Type: ESTD
 Cal Date : 28-JUN-2000 16:08 Cal File: d-b3668.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 3.40

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.793	11.793	0.000	24753	0.01000	0.01018
7 beta-BHC	12.500	12.500	0.000	14185	0.01000	0.01032
8 delta-BHC	13.347	13.347	0.000	24930	0.01000	0.01015
12 Heptachlor epoxide	13.893	13.893	0.000	26679	0.01000	0.01030
13 gamma-Chlordane	14.647	14.647	0.000	29552	0.01000	0.01029
14 alpha-Chlordane	14.760	14.760	0.000	29500	0.01000	0.01032
16 4,4'-DDE	14.947	14.947	0.000	30963	0.01000	0.01041
22 Endosulfan II	16.387	16.387	0.000	29362	0.01000	0.01046
24 Endrin aldehyde	17.127	17.120	0.007	13351	0.01000	0.01030
26 Endosulfan sulfate	17.747	17.747	0.000	18637	0.01000	0.01038
27 Endrin ketone	18.747	18.747	0.000	21195	0.01000	0.01024

Data File: /var/chem/gc04.1/3270-G.b/d-b3667.d

Date: 28-JUN-2000 15:42

Client ID:

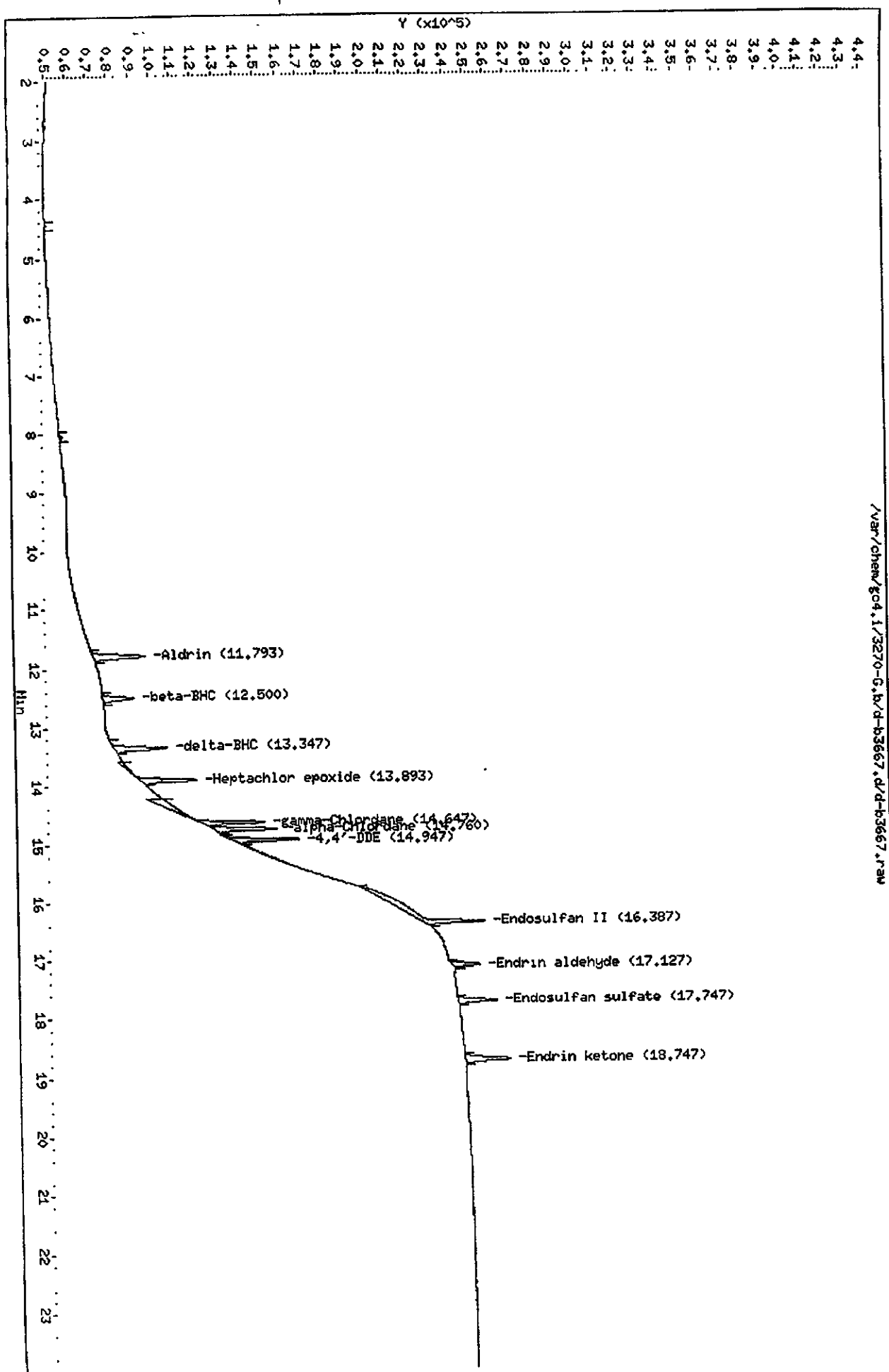
Sample Info: MLOMB, 3270-G.b, 4-INDB, sub, 1, 2

Column phase: DB1701

Instrument: gc04.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3668.d
 Report Date: 28-Jun-2000 17:44

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3668.d
 Lab Smp Id: MEDB
 Inj Date : 28-JUN-2000 16:08
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDB,3270-G.b,,4-INDB.sub,,1,3
 Misc Info : 190-84-9
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol Quant Type: ESTD
 Cal Date : 28-JUN-2000 16:08 Cal File: d-b3668.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 3.40

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.793	11.793	0.000	63192	0.02500	0.02500
7 beta-BHC	12.500	12.500	0.000	33799	0.02500	0.02500
8 delta-BHC	13.347	13.347	0.000	65633	0.02500	0.02500
12 Heptachlor epoxide	13.893	13.893	0.000	66763	0.02500	0.02500
13 gamma-Chlordane	14.647	14.647	0.000	71879	0.02500	0.02500
14 alpha-Chlordane	14.760	14.760	0.000	72040	0.02500	0.02500
16 4,4'-DDE	14.947	14.947	0.000	75066	0.02500	0.02500
22 Endosulfan II	16.387	16.387	0.000	66284	0.02500	0.02500
24 Endrin aldehyde	17.120	17.120	0.000	32897	0.02500	0.02500
26 Endosulfan sulfate	17.747	17.747	0.000	45156	0.02500	0.02500
27 Endrin ketone	18.747	18.747	0.000	51666	0.02500	0.02500

Data File: /var/chem/gc4.1/3270-G.b/d-b3668.d

Date: 28-JUN-2000 16:08

Client ID:

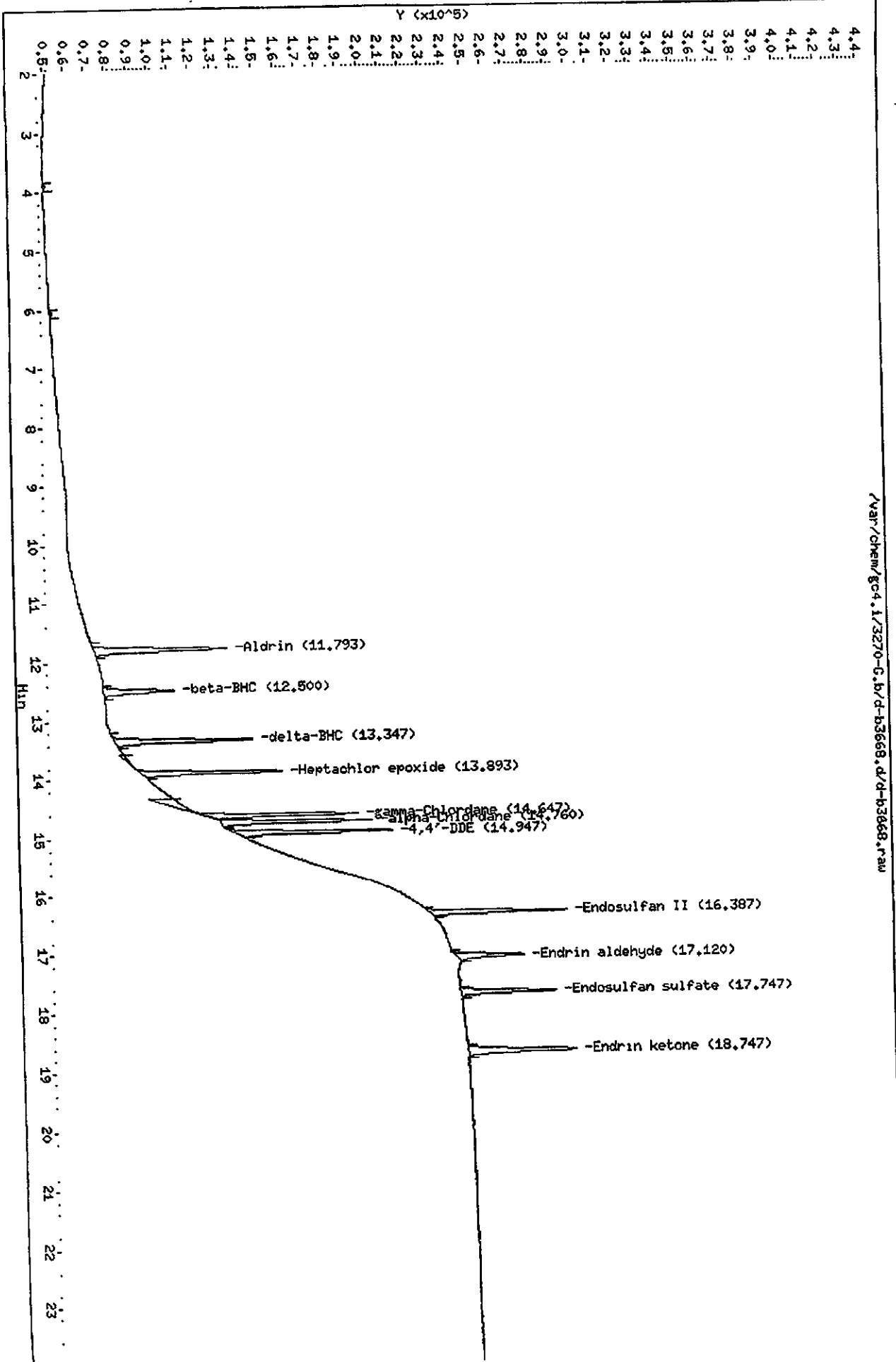
Sample Info: HEDB,3270-G.b/,4-INDB,sub/,4,3

Column phase: DB1701

Instrument: gc4.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3669.d
 Report Date: 28-Jun-2000 17:44

STL-PITTSBURGH

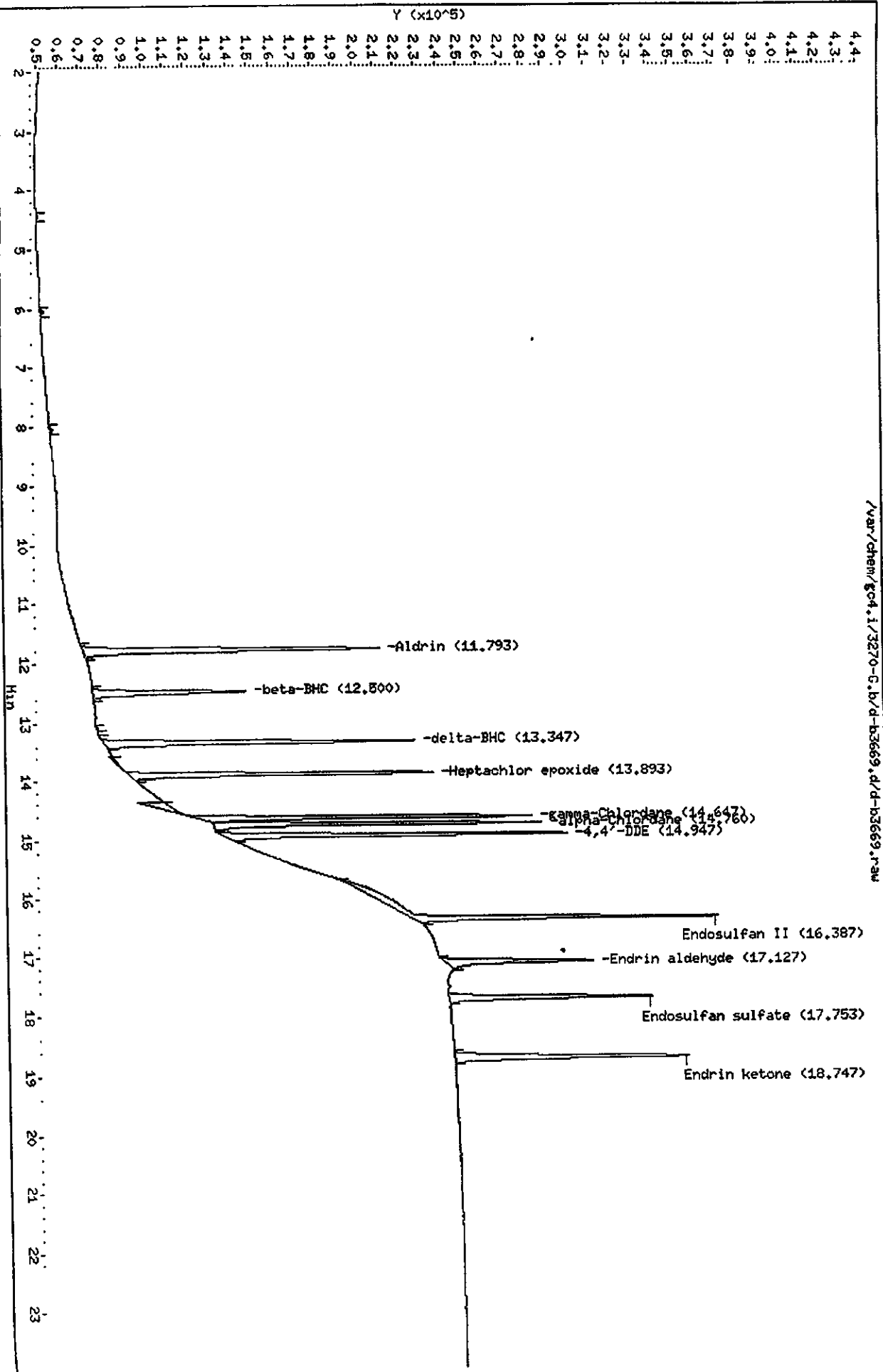
Data file : /var/chem/gc4.i/3270-G.b/d-b3669.d
 Lab Smp Id: MHIGHB
 Inj Date : 28-JUN-2000 16:35
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MHIGHB,3270-G.b,,4-INDB.sub,,1,4
 Misc Info : 190-84-10
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol Quant Type: ESTD
 Cal Date : 28-JUN-2000 16:35 Cal File: d-b3669.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 3.40

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.793	11.793	0.000	140634	0.05000	0.05564
7 beta-BHC	12.500	12.500	0.000	71934	0.05000	0.05175
8 delta-BHC	13.347	13.347	0.000	148003	0.05000	0.05732
12 Heptachlor epoxide	13.893	13.893	0.000	144002	0.05000	0.05409
13 gamma-Chlordane	14.647	14.647	0.000	158780	0.05000	0.05386
14 alpha-Chlordane	14.760	14.760	0.000	155939	0.05000	0.05334
16 4,4'-DDE	14.947	14.947	0.000	162662	0.05000	0.05342
22 Endosulfan II	16.387	16.387	0.000	145090	0.05000	0.05127
24 Endrin aldehyde	17.127	17.120	0.007	70061	0.05000	0.05298
26 Endosulfan sulfate	17.753	17.747	0.006	96524	0.05000	0.05276
27 Endrin ketone	18.747	18.747	0.000	110831	0.05000	0.05261

Data File: /var/chem/gc04.i/3270-G.b/d-b3669.d
 Date: 28-JUN-2000 16:35
 Client ID:
 Sample Info: HHIGHB,3270-G.b,4-INDB.sub,1,4

Column Phase: DB1701

Instrument: gc04.i
 Operator: 1891
 Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3670.d
 Report Date: 28-Jun-2000 17:45

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3670.d
 Lab Smp Id: HIGHB
 Inj Date : 28-JUN-2000 17:01
 Operator : 1891
 Smp Info : HIGHB, 3270-G.b, , 4-INDB.sub, , 1, 5
 Misc Info : 190-84-11
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 28-Jun-2000 17:43 matkol
 Cal Date : 28-JUN-2000 17:01
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-b3670.d
 Calibration Sample, Level: 5
 Compound Sublist: 4-INDB.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.793	11.793	0.000	286028	0.10000	0.1103 (A)
7 beta-BHC	12.500	12.500	0.000	137781	0.10000	0.09929
8 delta-BHC	13.347	13.347	0.000	306550	0.10000	0.1144 (A)
12 Heptachlor epoxide	13.893	13.893	0.000	286607	0.10000	0.1060 (A)
13 gamma-Chlordane	14.647	14.647	0.000	314512	0.10000	0.1053 (A)
14 alpha-Chlordane	14.760	14.760	0.000	310462	0.10000	0.1049 (A)
16 4,4'-DDE	14.947	14.947	0.000	321686	0.10000	0.1045 (A)
22 Endosulfan II	16.387	16.387	0.000	278819	0.10000	0.09882
24 Endrin aldehyde	17.127	17.120	0.007	138887	0.10000	0.1040 (A)
26 Endosulfan sulfate	17.747	17.747	0.000	190292	0.10000	0.1032 (A)
27 Endrin ketone	18.747	18.747	0.000	213329	0.10000	0.1010 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount
 exceeded maximum amount.

Data File: /var/chem/g04.1/3270-G.b/d-b3670.d

Date: 28-JUN-2000 17:01

Client ID:

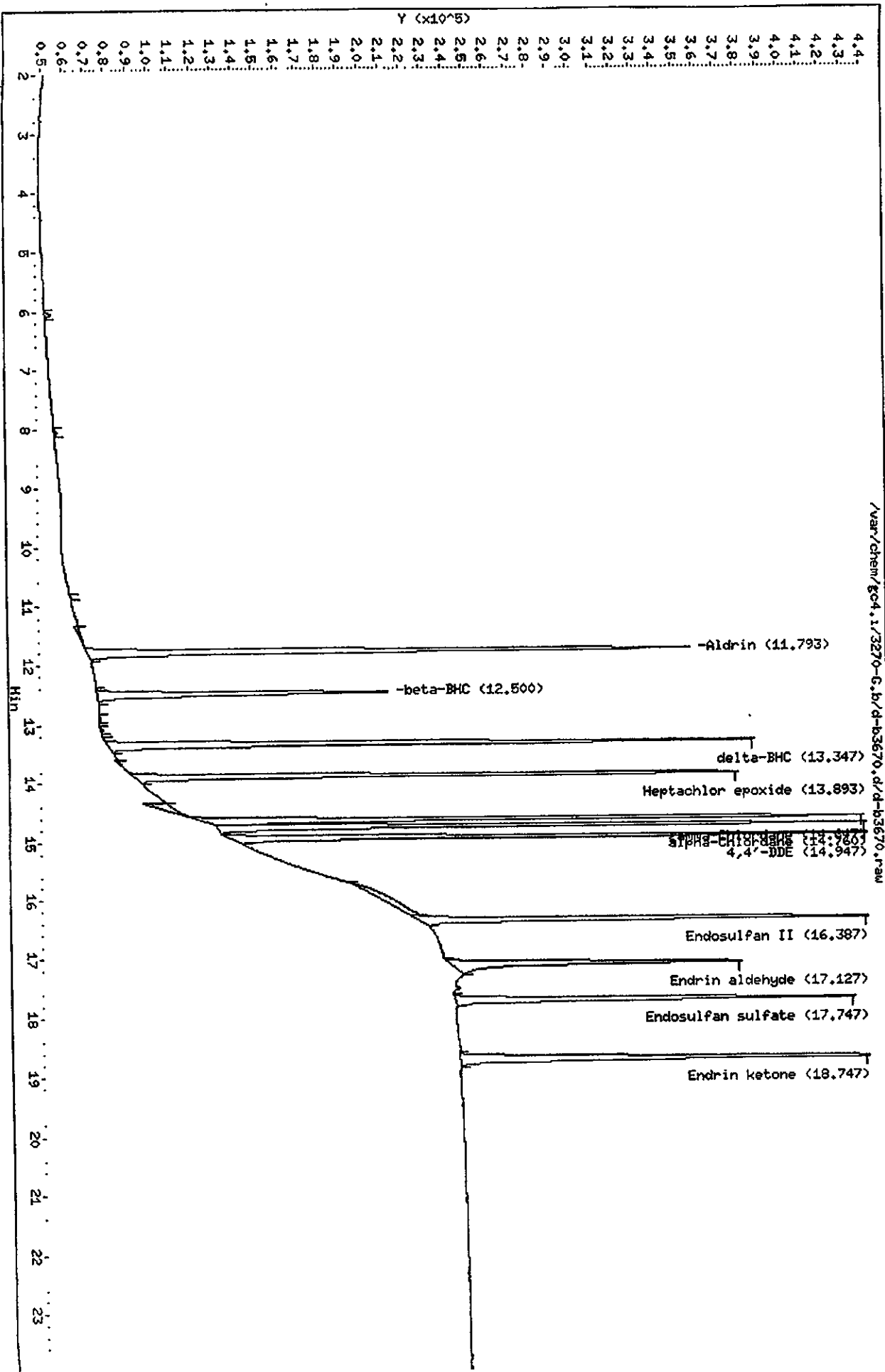
Sample Info: HIGHB,3270-G.b,4-INDB.sub,1,5

Column phase: DB1701

Instrument: g04.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3671.d
 Report Date: 29-Jun-2000 08:32

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3671.d
 Lab Smp Id: 2ND A
 Inj Date : 28-JUN-2000 17:27
 Operator : 1891 Inst ID: gc4.i
 Smp Info : 2ND A, 3270-G.b,, INDA.sub,, 2,3
 Misc Info : 190-82-2
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 29-Jun-2000 08:30 g Quant Type: ESTD
 Cal Date : 28-JUN-2000 17:01 Cal File: d-b3670.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDA.sub
 Target Version: 3.40

						AMOUNTS		
						CAL-AMT	ON-COL	
Compounds	RT	EXP	RT	DLT	RT	RESPONSE	(ng)	(ng)
=====	==	=====		=====		=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.700	5	700	0.000		42448	0.02500	0.01974
5 alpha-BHC	8.587	8.587		0.000		54894	0.02500	0.01968
6 gamma-BHC (Lindane)	10.020	10.020		0.000		48390	0.02500	0.02006
10 Heptachlor	10.847	10.847		0.000		52469	0.02500	0.02011
15 Endosulfan I	14.553	14.553		0.000		55697	0.02500	0.02012
17 Dieldrin	15.267	15.267		0.000		130103	0.02500	0.04148
20 Endrin	15.620	15.620		0.000		95871	0.02500	0.03775
21 4,4'-DDD	16.240	16.240		0.000		101079	0.02500	0.04212
23 4,4'-DDT	16.533	16.533		0.000		98601	0.02500	0.04194
25 Methoxychlor	17.647	17.647		0.000		237827	0.05000	0.2071 (A)
\$ 30 Decachlorobiphenyl	21.040	21.047		-0.007		69489	0.02500	0.04172

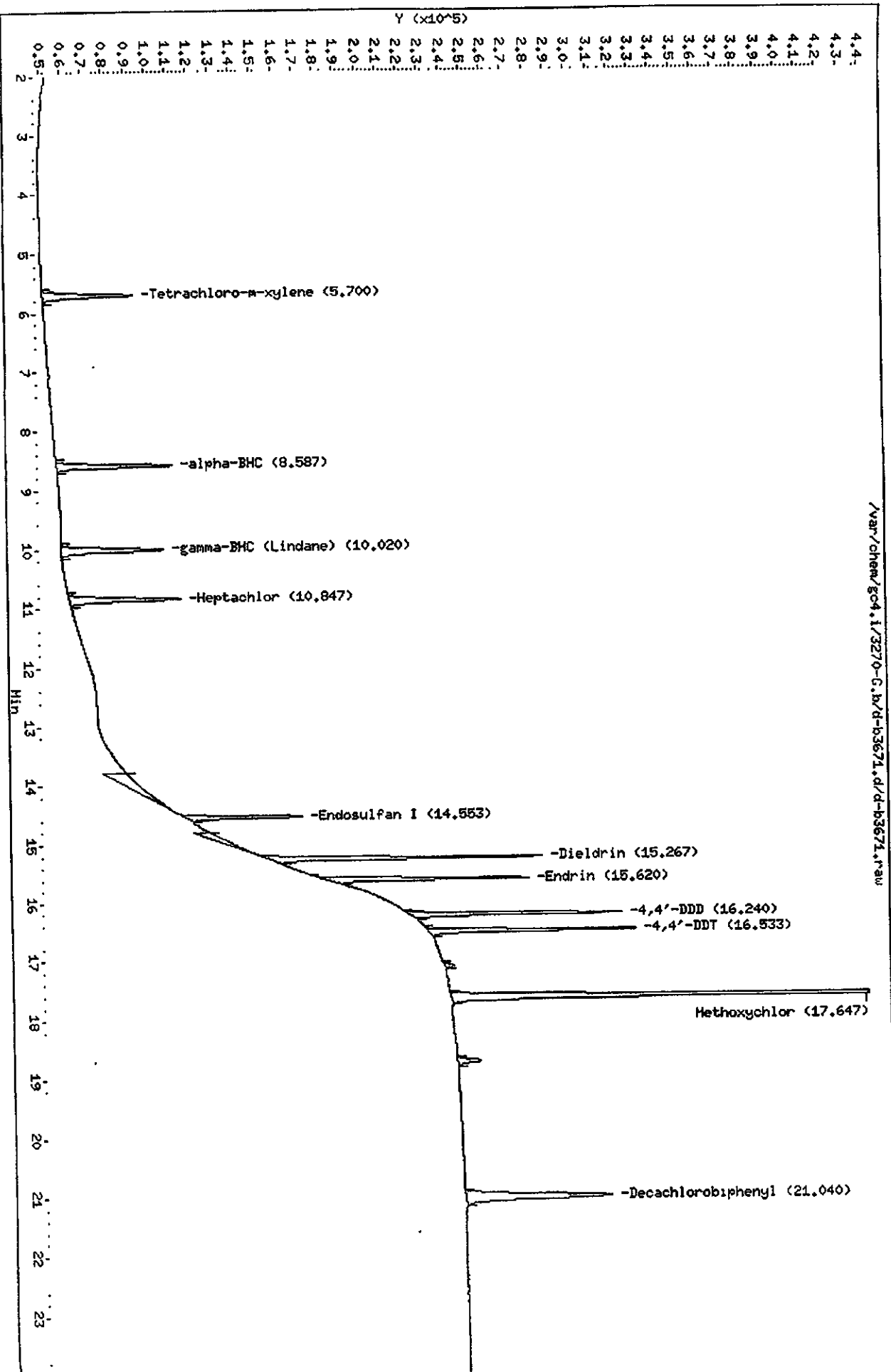
QC Flag Legend

A - Target compound detected but, quantitated amount
 exceeded maximum amount.

Data File: /var/chem/gc4.i/3270-G.b/d-b3671.d
Date: 28-JUN-2000 17:27
Client ID:
Sample Info: 2ND 0,3270-G.b,,INDB.sub,2,3

Column phase: DB1701

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3672.d
 Report Date: 29-Jun-2000 08:32

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3672.d
 Lab Smp Id: 2ND B
 Inj Date : 28-JUN-2000 17:53
 Operator : 1891 Inst ID: gc4.i
 Smp Info : 2ND B,3270-G.b,, INDB.sub,,2,3
 Misc Info : 190-82-5
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 29-Jun-2000 08:30 g Quant Type: ESTD
 Cal Date : 28-JUN-2000 17:01 Cal File: d-b3670.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 3.40

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.787	11.793	-0.006	48861	0.02500	0.01884
7 beta-BHC	12.500	12.500	0.000	26256	0.02500	0.01892
8 delta-BHC	13.347	13.347	0.000	48477	0.02500	0.01810
12 Heptachlor epoxide	13.893	13.893	0.000	53430	0.02500	0.01977
13 gamma-Chlordane	14.647	14.647	0.000	56907	0.02500	0.01905
14 alpha-Chlordane	14.760	14.760	0.000	57418	0.02500	0.01940
16 4,4'-DDE	14.947	14.947	0.000	123535	0.02500	0.04012
22 Endosulfan II	16.387	16.387	0.000	111229	0.02500	0.03942
24 Endrin aldehyde	17.127	17.120	0.007	51224	0.02500	0.03835
26 Endosulfan sulfate	17.747	17.747	0.000	72972	0.02500	0.03957
27 Endrin ketone	18.747	18.747	0.000	84472	0.02500	0.04000

Data File: /var/chem/gc04.1/3270-G.b/d-b3672.d

Date: 28-JUN-2000 17:53

Client ID:

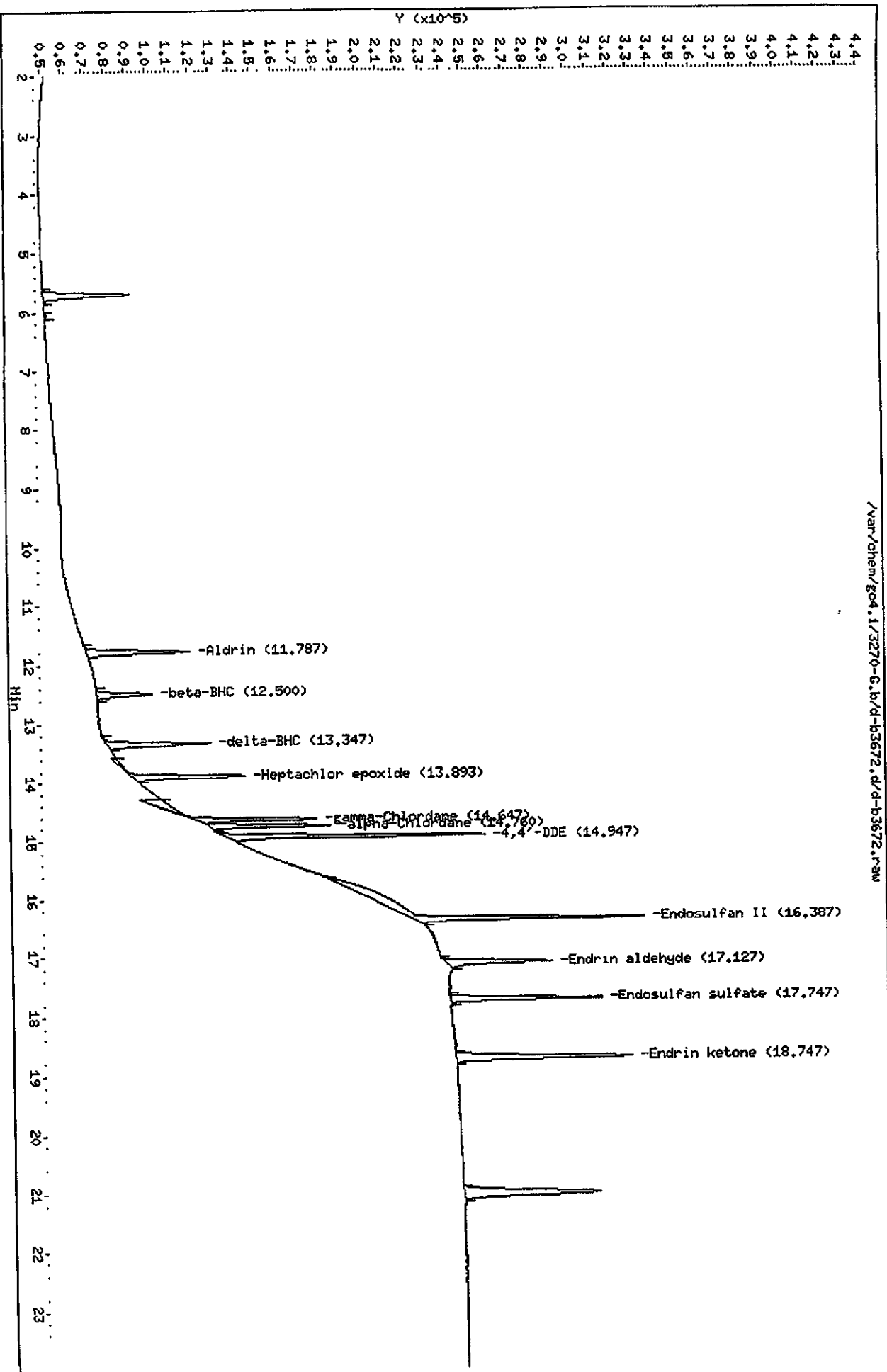
Sample Info: 2ND B, 3270-G.b, INDB.sub, 2,3

Column phase: DB1704

Instrument: gc04.1

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/3270-G.b/d-b3673.d
 Report Date: 29-Jun-2000 08:32

STL-PITTSBURGH

Data file : /var/chem/gc4.i/3270-G.b/d-b3673.d
 Lab Smp Id: EVALB
 Inj Date : 28-JUN-2000 18:19
 Operator : 1891 Inst ID: gc4.i
 Smp Info : EVALB,3270-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : /var/chem/gc4.i/3270-G.b/PESTB.m
 Meth Date : 29-Jun-2000 08:30 g Quant Type: ESTD
 Cal Date : 28-JUN-2000 17:01 Cal File: d-b3670.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 3.40

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.707	5.700	0.007	43504	0.02023	0.02023 (R)
16 4,4'-DDE	Compound Not Detected.					
20 Endrin	15.620	15.620	0.000	60802	0.02394	0.02394
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	16.540	16.533	0.007	58931	0.02507	0.02507
24 Endrin aldehyde	17.127	17.120	0.007	2892	0.00217	0.002165
27 Endrin ketone	Compound Not Detected.					
\$ 30 Decachlorobiphenyl	21.047	21.047	0.000	34168	0.02052	0.02052 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT=0
 Endrin=4.5

Data File: /var/chem/604.i/3270-G.b/d-b3673.d

Date: 28-JUN-2000 18:19

Client ID:

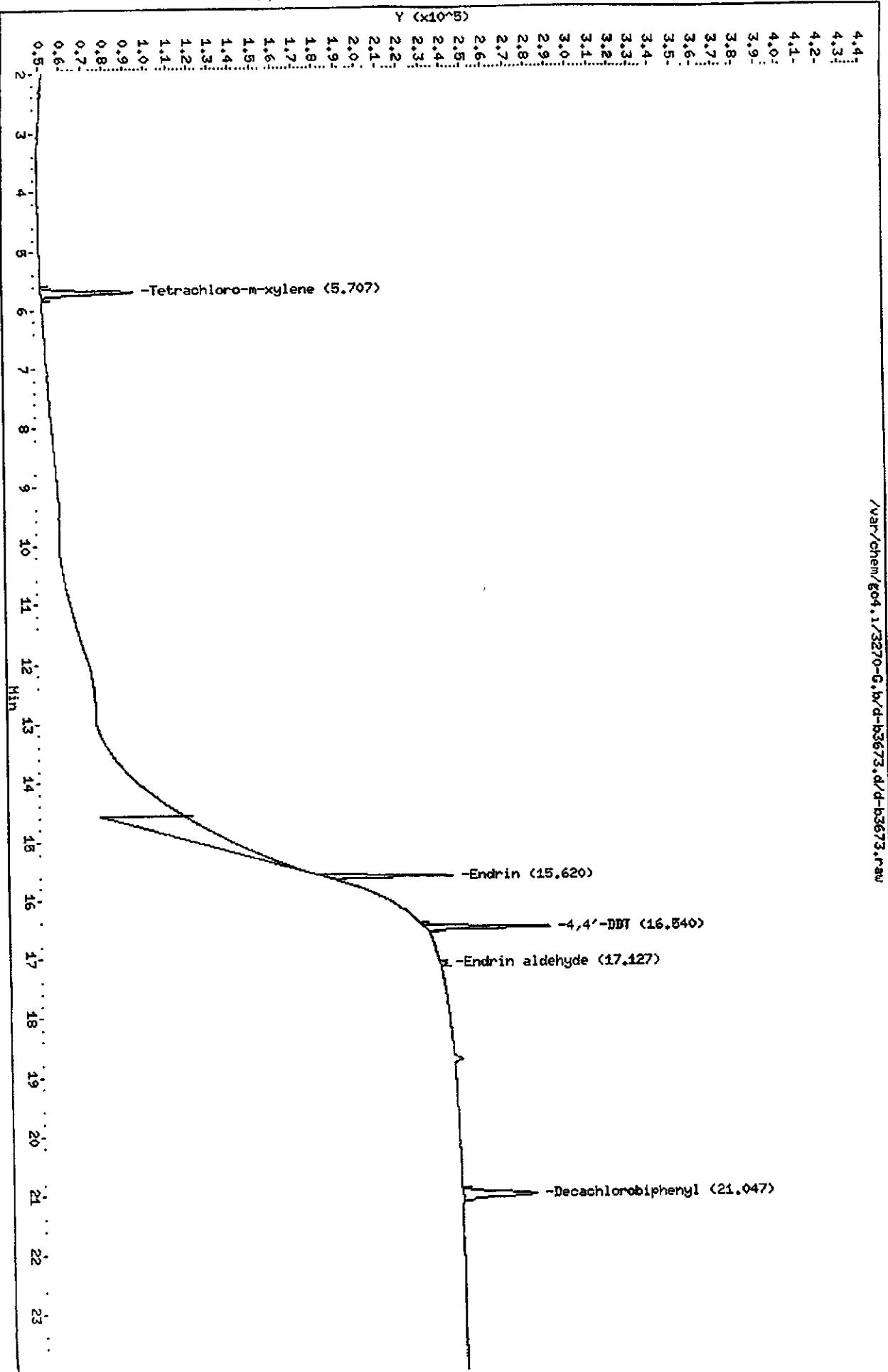
Sample Info: EVALB,3270-G.b.,EVALBR,sub,3.1

Column phase: DB1701

Instrument: 604.i

Operator: 1891

Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-b3783.d
 Report Date: 03-Jul-2000 11:31

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-b3783.d
 Lab Smp Id: EVALB
 Inj Date : 03-JUL-2000 08:52
 Operator : 1891 Inst ID: gc4.i
 Smp Info : EVALB,4030-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTB.m
 Meth Date : 03-Jul-2000 11:30 matkol Quant Type: ESTD
 Cal Date : 29-JUN-2000 18:14 Cal File: d-b3728.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 3.40

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RT	RESPONSE	ON-COLUMN FINAL
					(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.693	5.693	0.000	48434	0.02252	0.02252 (R)
16 4,4'-DDE	Compound Not Detected.					
20 Endrin	15.607	15.607	0.000	66905	0.02634	0.02634
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	16.520	16.520	0.000	64318	0.02736	0.02736
24 Endrin aldehyde	17.107	17.100	0.007	2550	0.00191	0.001909
27 Endrin ketone	Compound Not Detected.					
\$ 30 Decachlorobiphenyl	21.013	21.020	-0.007	36510	0.02192	0.02192 (R)

QC Flag Legend

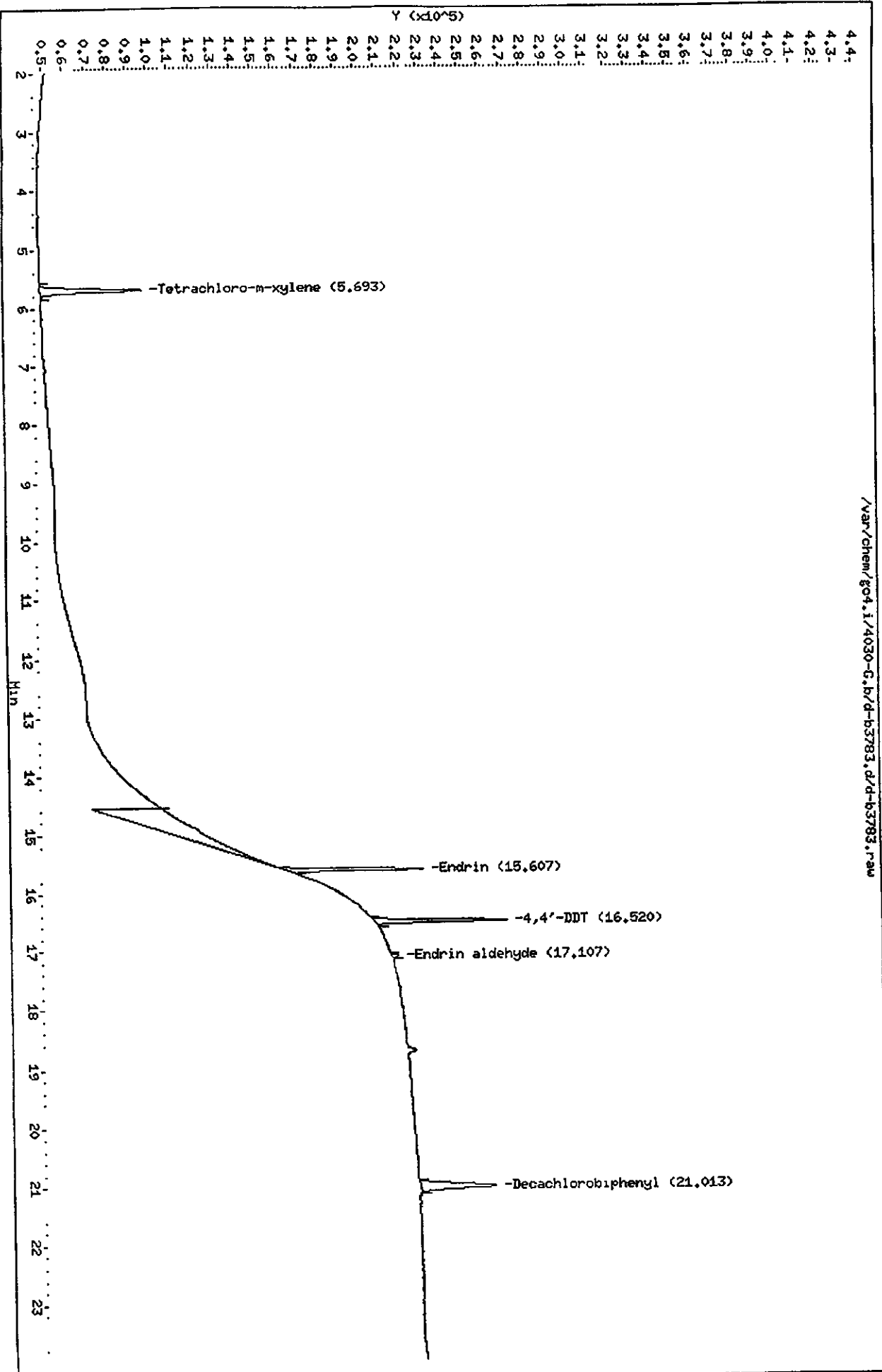
R - Spike/Surrogate failed recovery limits.

EWL = 3.7
DDF = 0

Data File: /var/chem/gc04.i/4030-G.b/d-b3783.d
Date: 03-JUL-2000 08:52
Client ID:
Sample Info: EVALB,4030-G.b, EVALBR.sub,3,1

Column phase: DB1701

Instrument: gc04.i
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-b3784.d
 Report Date: 03-Jul-2000 11:31

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-b3784.d
 Lab Smp Id: MEDTOX
 Inj Date : 03-JUL-2000 09:18
 Operator : 1891
 Smp Info : MEDTOX,4030-G.b,,1-TOX.sub,,2,3
 Misc Info : 190-84-13
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTB.m
 Meth Date : 03-Jul-2000 11:30 matkol
 Cal Date : 29-JUN-2000 18:14
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

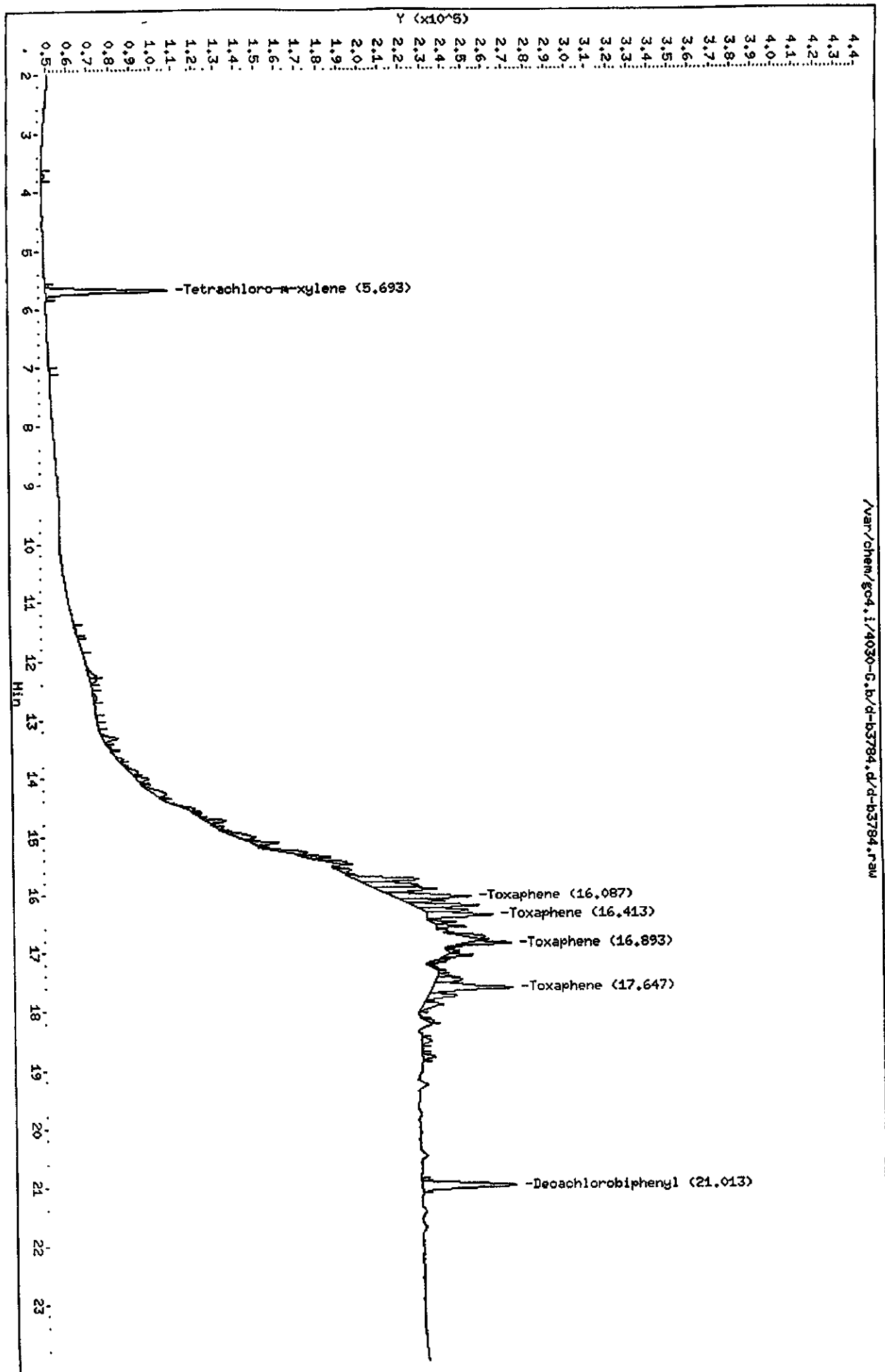
Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-b3728.d
 Continuing Calibration Sample
 Compound Sublist: 1-TOX.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
18 Toxaphene	16.087	16.087	0.000	37090	1.00000	1.052
\$ 1 Tetrachloro-m-xylene	5.693	5.693	0.000	58516	0.02500	0.02721
\$ 30 Decachlorobiphenyl	21.013	21.020	-0.007	45188	0.02500	0.02713

Data File: /var/chem/gc4.i/4030-G,b/d-b3784.d
Date: 03-JUL-2000 09:18
Client ID:
Sample Info: HEDTOX,4030-G,b,1-TOX.sub,2,3

Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-b3785.d
 Report Date: 03-Jul-2000 11:31

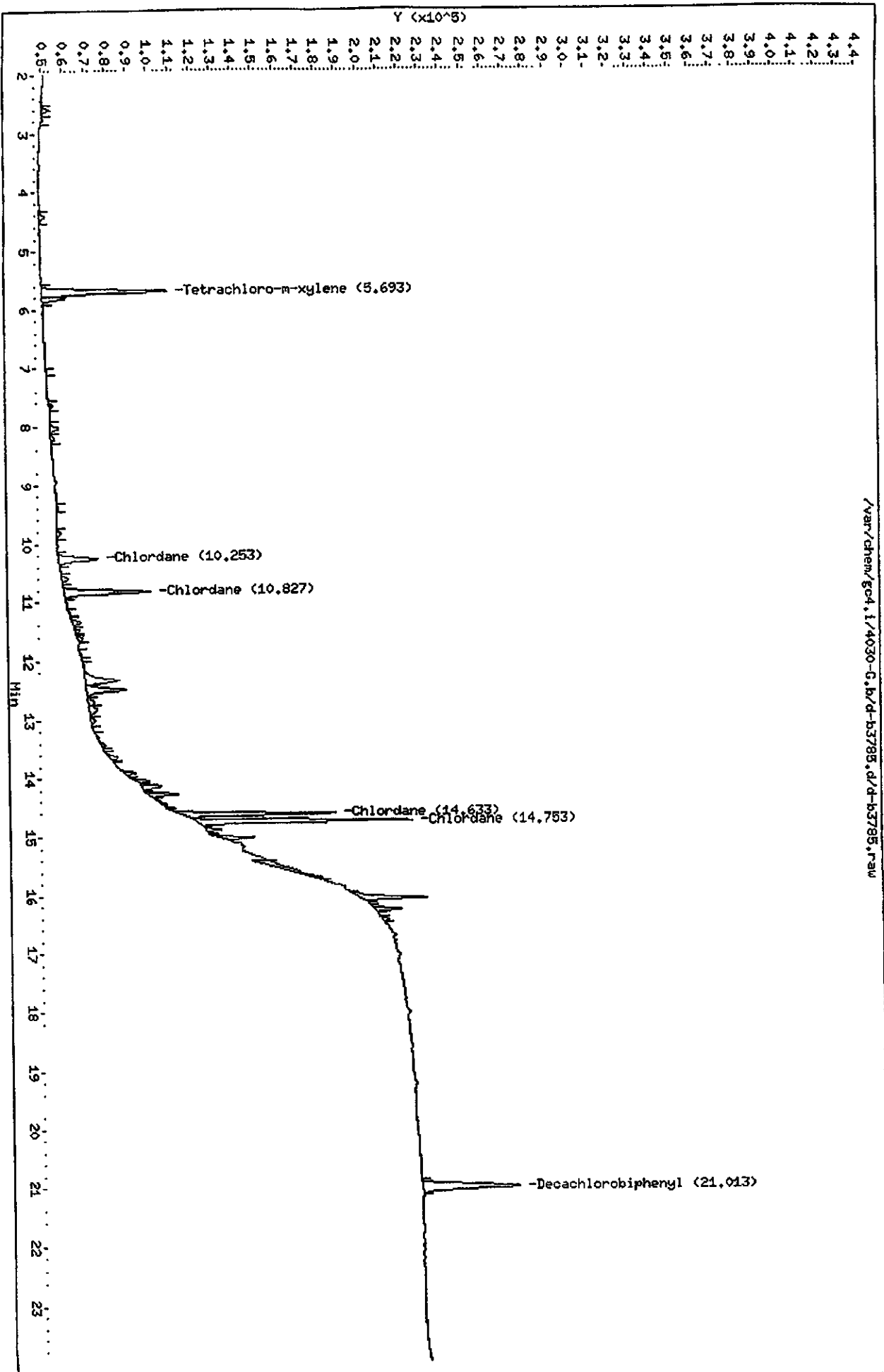
STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-b3785.d
 Lab Smp Id: MEDCHLOR
 Inj Date : 03-JUL-2000 09:45
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDCHLOR,4030-G.b,,2-CHLO.sub,,2,3
 Misc Info : 190-85-10
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTB.m
 Meth Date : 03-Jul-2000 11:30 matkol Quant Type: ESTD
 Cal Date : 29-JUN-2000 18:14 Cal File: d-b3728.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 2-CHLO.sub
 Target Version: 3.40

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
9 Chlordane	10.253	10.253	0.000	19049	0.25000	0.2915
\$ 1 Tetrachloro-m-xylene	5.693	5.693	0.000	59951	0.02500	0.02787
\$ 30 Decachlorobiphenyl	21.013	21.020	-0.007	46778	0.02500	0.02809

Data File: /var/chem/gc4.1/4030-G.b/d-b3785.d
Date: 03-JUL-2000 09:45
Client ID:
Sample Info: HEDCHLOR,4030-G.b,2-CHLO,sub,2,3
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-b3786.d
 Report Date: 03-Jul-2000 11:31

STL-PITTSBURGH

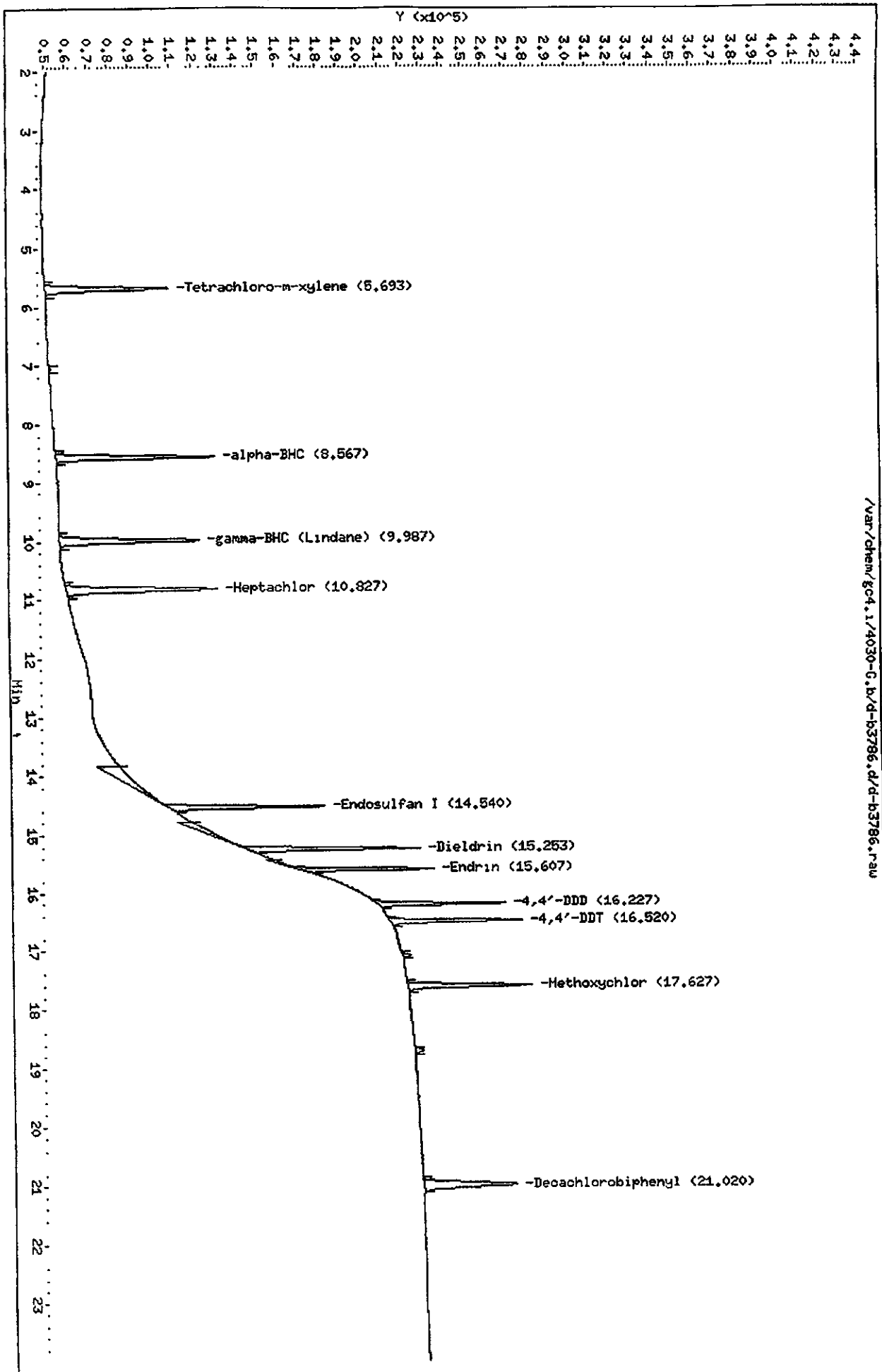
Data file : /var/chem/gc4.i/4030-G.b/d-b3786.d
 Lab Smp Id: MEDA
 Inj Date : 03-JUL-2000 10:11
 Operator : 1891
 Smp Info : MEDA,4030-G.b,,INDA.sub,,2,3
 Misc Info : 190-84-3
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTB.m
 Meth Date : 03-Jul-2000 11:30 matkol
 Cal Date : 29-JUN-2000 18:14
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-b3728.d
 Continuing Calibration Sample
 Compound Sublist: INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.693	5.693	0.000	59325	0.02500	0.02758
5 alpha-BHC	8.567	8.567	0.000	75871	0.02500	0.02720
6 gamma-BHC (Lindane)	9.987	9.987	0.000	66484	0.02500	0.02756
10 Heptachlor	10.827	10.827	0.000	72118	0.02500	0.02764
15 Endosulfan I	14.540	14.540	0.000	75114	0.02500	0.02714
17 Dieldrin	15.253	15.253	0.000	83093	0.02500	0.02649
20 Endrin	15.607	15.607	0.000	64324	0.02500	0.02533
21 4,4'-DDD	16.227	16.227	0.000	61690	0.02500	0.02570
23 4,4'-DDT	16.520	16.520	0.000	63709	0.02500	0.02710
25 Methoxychlor	17.627	17.627	0.000	60084	0.05000	0.05233
\$ 30 Decachlorobiphenyl	21.020	21.020	0.000	44779	0.02500	0.02689

Data File: /var/chem/gc4.1/4030-G.b/d-b3786.d
Date: 03-JUL-2000 10:11
Client ID:
Sample Info: HEDA,4030-G.b.,INDA.sub./2,3
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-b3787.d
 Report Date: 03-Jul-2000 11:31

STL-PITTSBURGH

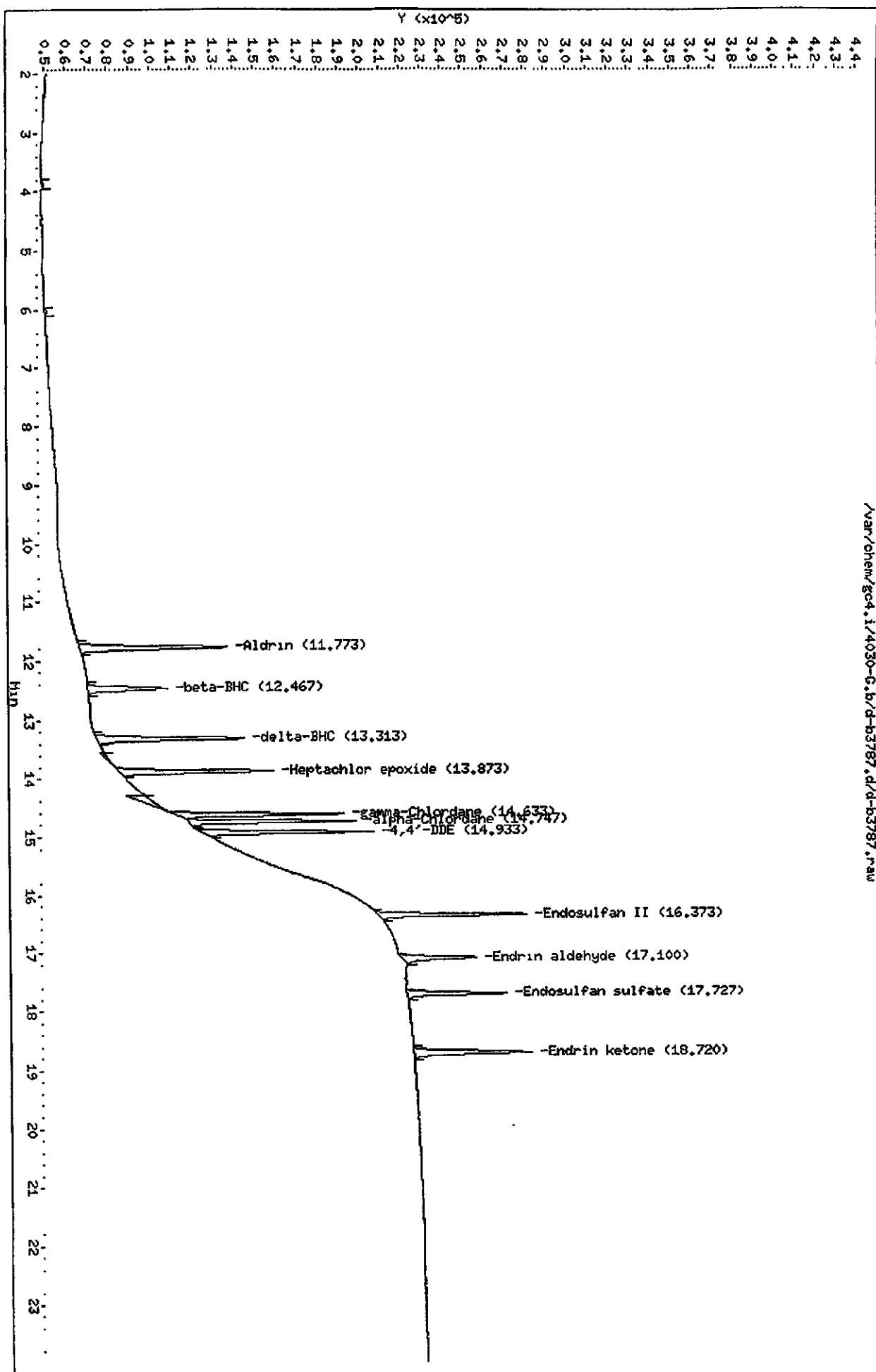
Data file : /var/chem/gc4.i/4030-G.b/d-b3787.d
 Lab Smp Id: MEDB
 Inj Date : 03-JUL-2000 10:37
 Operator : 1891
 Smp Info : MEDB,4030-G.b,,INDB.sub,,2,3
 Misc Info : 190-84-9
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTB.m
 Meth Date : 03-Jul-2000 11:30 matkol
 Cal Date : 29-JUN-2000 18:14
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-b3728.d
 Continuing Calibration Sample
 Compound Sublist: INDB.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	**	*****	*****	*****	*****	*****
11 Aldrin	11.773	11.773	0.000	70626	0.02500	0.02723
7 beta-BHC	12.467	12.467	0.000	37737	0.02500	0.02719
8 delta-BHC	13.313	13.313	0.000	70465	0.02500	0.02630
12 Heptachlor epoxide	13.873	13.873	0.000	73094	0.02500	0.02704
13 gamma-Chlordane	14.633	14.633	0.000	79686	0.02500	0.02667
14 alpha-Chlordane	14.747	14.747	0.000	80448	0.02500	0.02718
16 4,4'-DDE	14.933	14.933	0.000	81879	0.02500	0.02659
22 Endosulfan II	16.373	16.373	0.000	71735	0.02500	0.02542
24 Endrin aldehyde	17.100	17.100	0.000	36073	0.02500	0.02701
26 Endosulfan sulfate	17.727	17.727	0.000	48041	0.02500	0.02605
27 Endrin ketone	18.720	18.720	0.000	56355	0.02500	0.02668

Data File: /var/chem/gc4.i/4030-G.b/d-b3787.d
Date: 03-JUL-2000 10:37
Client ID:
Sample Info: MEDB,4030-G.b, INDB.sub,2,3
Column phase: DB1701

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-b3808.d
 Report Date: 05-Jul-2000 10:01

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-b3808.d
 Lab Smp Id: MEDA
 Inj Date : 03-JUL-2000 19:45
 Operator : 1891
 Smp Info : MEDA,4030-G.b,,INDA.sub,,2,3
 Misc Info : 190-84-3
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTB.m
 Meth Date : 05-Jul-2000 09:58 g
 Cal Date : 29-JUN-2000 18:14
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

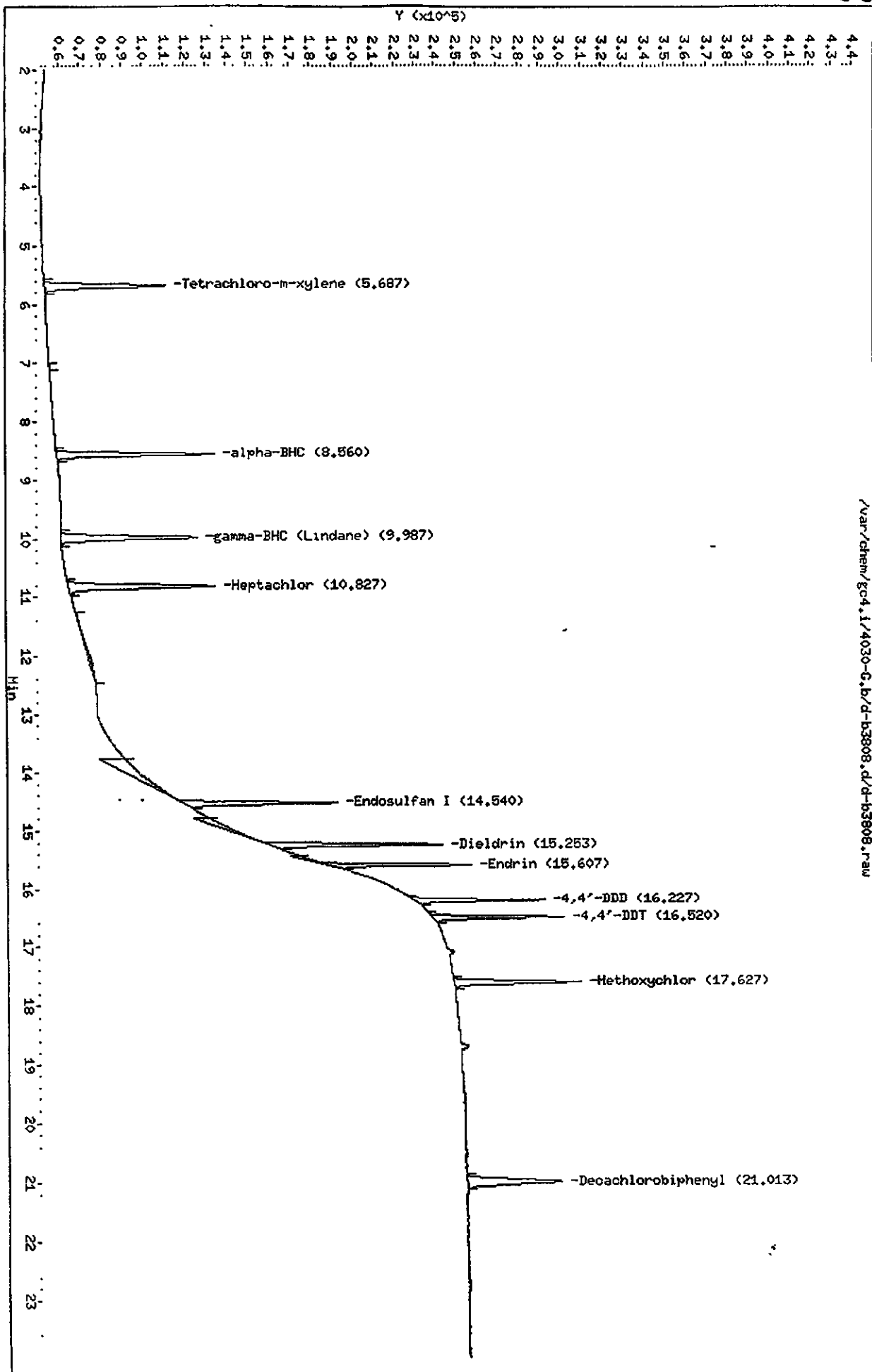
Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-b3728.d
 Continuing Calibration Sample
 Compound Sublist: INDA.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.687	5.693	-0.006	57875	0.02500	0.02691
5 alpha-BHC	8.560	8.567	-0.007	75660	0.02500	0.02712
6 gamma-BHC (Lindane)	9.987	9.987	0.000	65331	0.02500	0.02708
10 Heptachlor	10.827	10.827	0.000	69970	0.02500	0.02681
15 Endosulfan I	14.540	14.540	0.000	72984	0.02500	0.02637
17 Dieldrin	15.253	15.253	0.000	82948	0.02500	0.02644
20 Endrin	15.607	15.607	0.000	68225	0.02500	0.02686
21 4,4'-DDD	16.227	16.227	0.000	63107	0.02500	0.02630
23 4,4'-DDT	16.520	16.520	0.000	63070	0.02500	0.02683
25 Methoxychlor	17.627	17.627	0.000	60561	0.05000	0.05274
\$ 30 Decachlorobiphenyl	21.013	21.020	-0.007	45158	0.02500	0.02711

Data File: /var/chem/gc4.i/4030-G.b/d-b3808.d
Date: 03-JUL-2000 19:45
Client ID:
Sample Info: HEDM, 4030-G.b, INDR, sub, 2,3

Column phase: DB1701

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-b3809.d
 Report Date: 05-Jul-2000 10:02

STL-PITTSBURGH

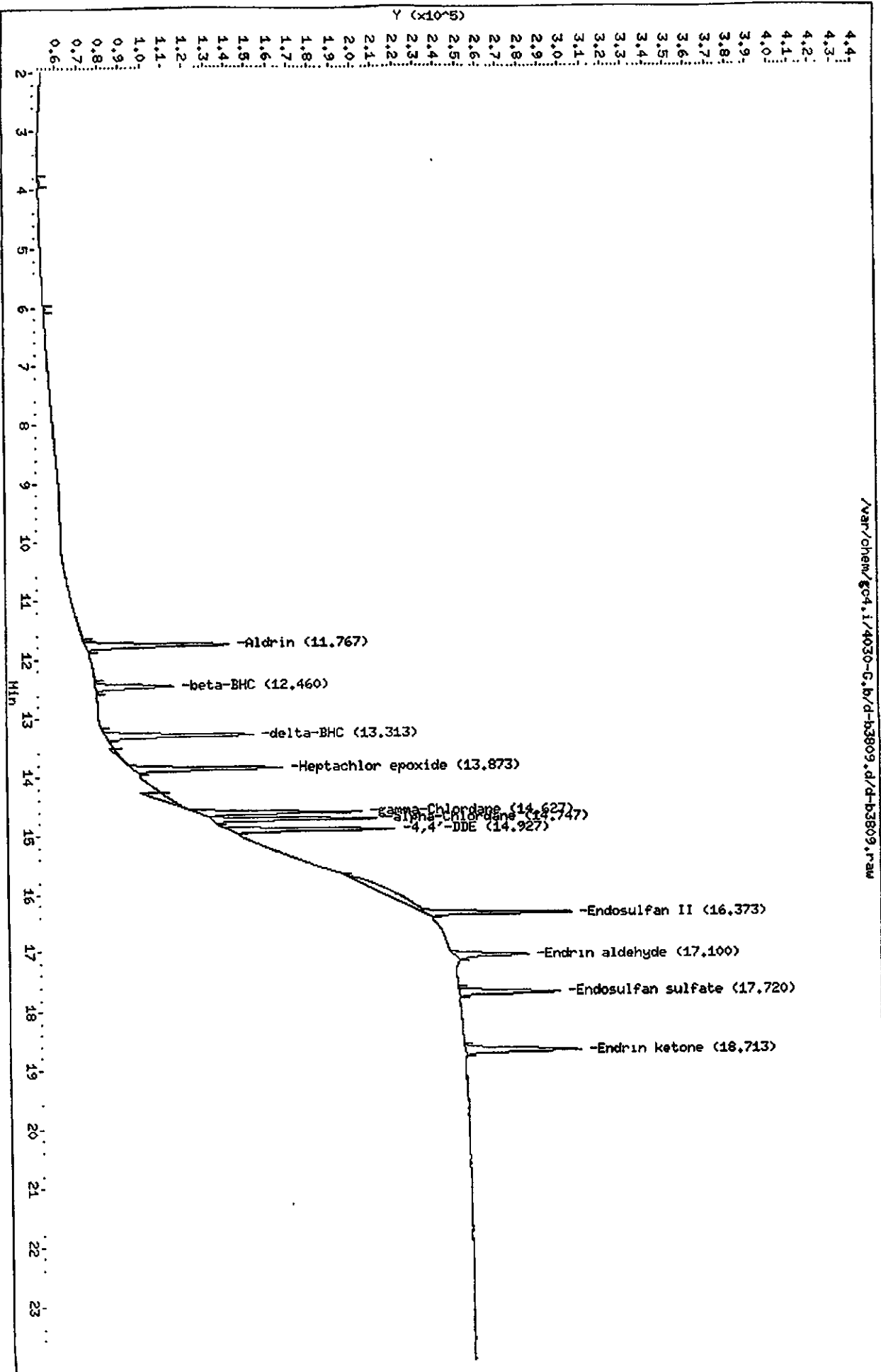
Data file : /var/chem/gc4.i/4030-G.b/d-b3809.d
 Lab Smp Id: MEDB
 Inj Date : 03-JUL-2000 20:11
 Operator : 1891
 Smp Info : MEDB,4030-G.b,,INDB.sub,,2,3
 Misc Info : 190-84-9
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTB.m
 Meth Date : 05-Jul-2000 09:58 g
 Cal Date : 29-JUN-2000 18:14
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc4.i
 Quant Type: ESTD
 Cal File: d-b3728.d
 Continuing Calibration Sample
 Compound Sublist: INDB.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.767	11.773	-0.006	68042	0.02500	0.02623
7 beta-BHC	12.460	12.467	-0.007	36977	0.02500	0.02665
8 delta-BHC	13.313	13.313	0.000	69977	0.02500	0.02612
12 Heptachlor epoxide	13.873	13.873	0.000	71450	0.02500	0.02643
13 gamma-Chlordane	14.627	14.633	-0.006	77902	0.02500	0.02608
14 alpha-Chlordane	14.747	14.747	0.000	78327	0.02500	0.02646
16 4,4'-DDE	14.927	14.933	-0.006	79309	0.02500	0.02576
22 Endosulfan II	16.373	16.373	0.000	71003	0.02500	0.02516
24 Endrin aldehyde	17.100	17.100	0.000	35572	0.02500	0.02663
26 Endosulfan sulfate	17.720	17.727	-0.007	48384	0.02500	0.02623
27 Endrin ketone	18.713	18.720	-0.007	55557	0.02500	0.02630

Data File: /var/chem/gc4.1/4030-G.b/d-b3809.d
Date: 03-JUL-2000 20:11
Client ID:
Sample Info: HEDB, 4030-G.b., INMB, sub., 2.3
Column phase: DB1701

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53



**PESTICIDE
QC DATA**

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

663 438

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 111

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8M101

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/04/00

Moisture %: NA

QC Batch: 0184111

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
72-54-8	4,4'-DDD	0.050	U
72-55-9	4,4'-DDE	0.050	U
50-29-3	4,4'-DDT	0.050	U
60-57-1	Dieldrin	0.050	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.050	U
1031-07-8	Endosulfan sulfate	0.050	U
72-20-8	Endrin	0.050	U
7421-93-4	Endrin aldehyde	0.050	U
53494-70-5	Endrin ketone	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

Data File: /var/chem/gc4.i/4030-G.b/d-a3796.d
 Report Date: 05-Jul-2000 09:10

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3796.d
 Lab Smp Id: DFN8M101 Client Smp ID: PBLK1
 Inj Date : 03-JUL-2000 14:32
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DFN8M101,4030-G.b,,PEST.sub,,3,
 Misc Info : 300207BLK
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTA.m
 Meth Date : 05-Jul-2000 08:44 g Quant Type: ESTD
 Cal Date : 29-JUN-2000 20:25 Cal File: d-a3733.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 1 Tetrachloro-m-xylene	5.733	5.740	-0.007	55783	0.01837	0.1837
28 Chlorobenzilate						
29 Kepone						
4 HEXACHLOROBENZENE						
5 alpha-BHC						
6 gamma-BHC (Lindane)						
7 beta-BHC						
9 Chlordane						
10 Heptachlor						
8 delta-BHC						
11 Aldrin						
19 Isodrin						
12 Heptachlor epoxide						
13 gamma-Chlordane						
14 alpha-Chlordane						
15 Endosulfan I						

Data File: /var/chem/gc4.i/4030-G.b/d-a3796.d
 Report Date: 05-Jul-2000 09:10

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(ug/L)
=====	==	=====	=====	=====	=====	=====	=====	=====
16 4,4'-DDE						Compound Not Detected		
17 Dieldrin						Compound Not Detected.		
20 Endrin						Compound Not Detected.		
21 4,4'-DDD						Compound Not Detected.		
18 Toxaphene						Compound Not Detected.		
22 Endosulfan II	16.213	16.207	0.006		1925	0.000698	0.006979(a)	
23 4,4'-DDT						Compound Not Detected.		
24 Endrin aldehyde						Compound Not Detected		
26 Endosulfan sulfate						Compound Not Detected		
25 Methoxychlor						Compound Not Detected.		
27 Endrin ketone						Compound Not Detected.		
\$ 30 Decachlorobiphenyl	22.800	22.807	-0.007		30905	0.01970	0.1970	

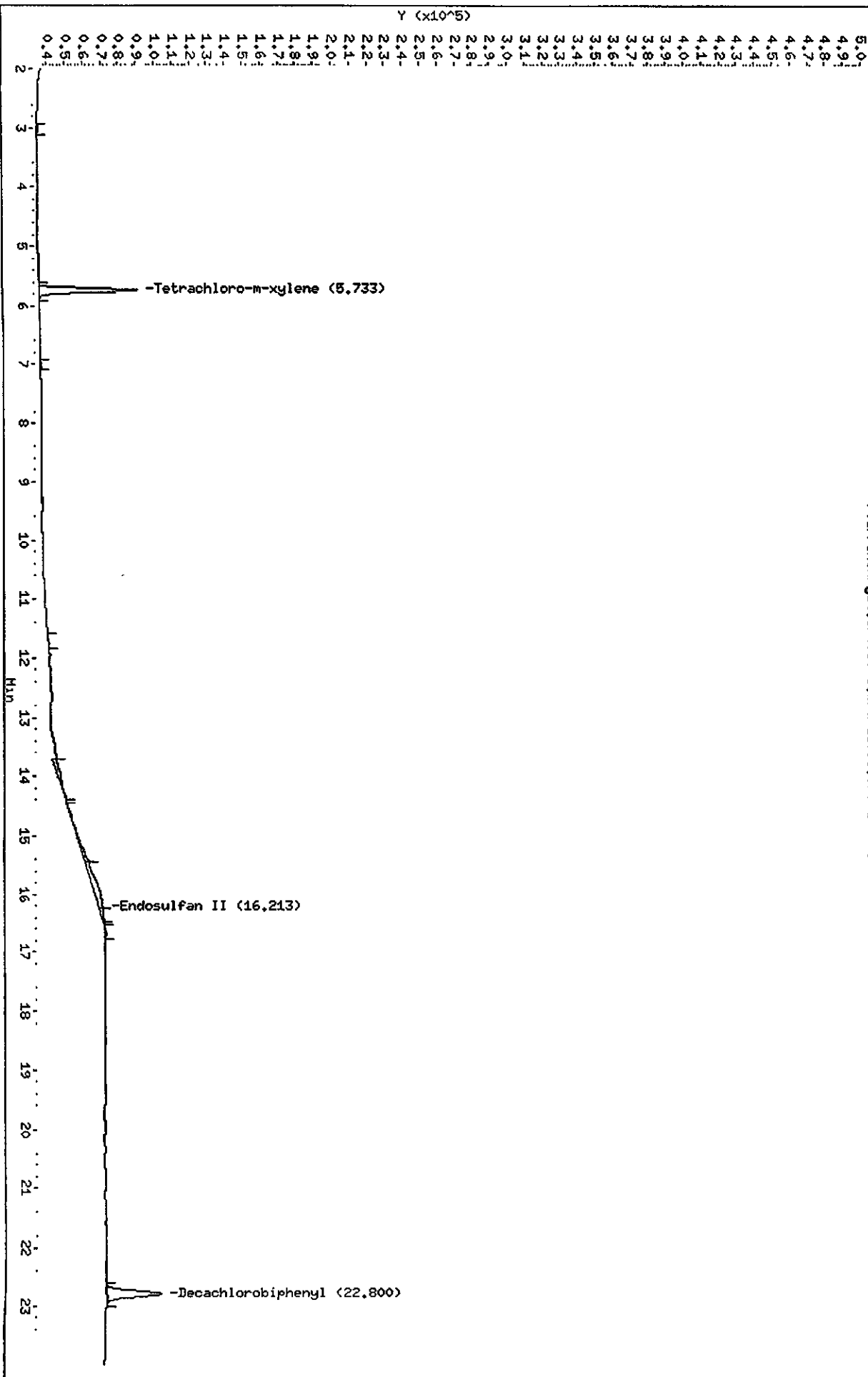
QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.1/4030-G.b/d-a3796.d
Date : 03-JUL-2000 14:32
Client ID: PLK1
Sample Info: DFNBH01,4030-G.b,PEST,sub,3,
Volume Injected (ul): 1.0
Column phase: DB608

Instrument: gc4.1
Operator: 1891
Column diameter: 0.53

/var/chem/gc4.1/4030-G.b/d-a3796.d/d-a3796.raw



Data File: /var/chem/gc4.i/4030-G.b/d-b3796.d
 Report Date: 05-Jul-2000 10:01

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-b3796.d
 Lab Smp Id: DFN8M101 Client Smp ID: PBLK1
 Inj Date : 03-JUL-2000 14:32
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DFN8M101,4030-G.b,,PEST.sub,,3,
 Misc Info : 300207BLK
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTB.m
 Meth Date : 05-Jul-2000 09:58 g Quant Type: ESTD
 Cal Date : 29-JUN-2000 18:14 Cal File: d-b3728.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

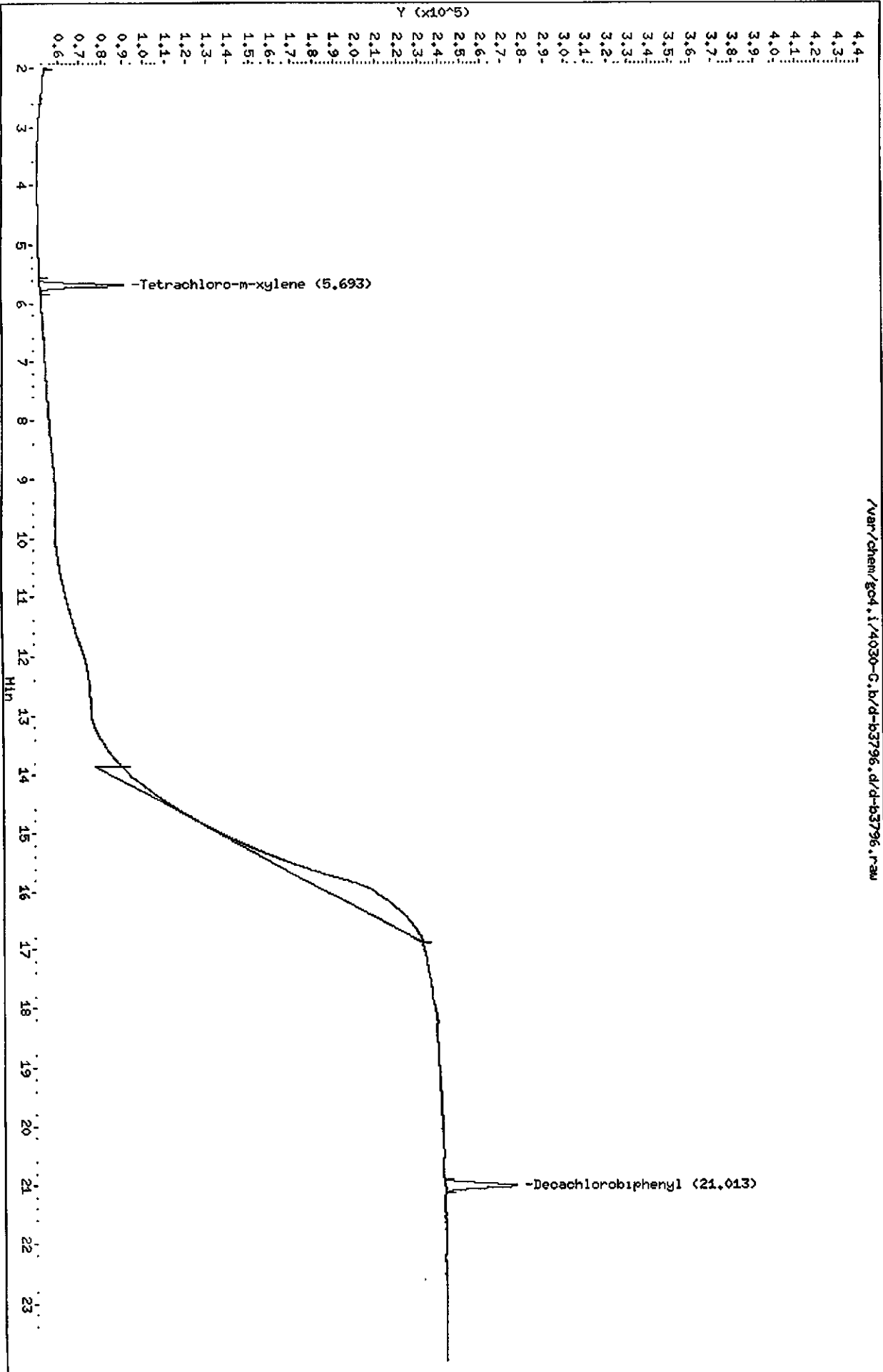
Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (ug/L)
5 alpha-BHC						Compound Not Detected.		
58 MIREX						Compound Not Detected.		
29 Kepone						Compound Not Detected.		
4 HEXACHLOROBENZENE						Compound Not Detected.		
6 gamma-BHC (Lindane)						Compound Not Detected.		
7 beta-BHC						Compound Not Detected.		
9 Chlordane						Compound Not Detected.		
10 Heptachlor						Compound Not Detected.		
8 delta-BHC						Compound Not Detected.		
11 Aldrin						Compound Not Detected.		
12 Heptachlor epoxide						Compound Not Detected.		
13 gamma-Chlordane						Compound Not Detected.		
14 alpha-Chlordane						Compound Not Detected.		
15 Endosulfan I						Compound Not Detected.		
16 4,4'-DDE						Compound Not Detected.		
17 Dieldrin						Compound Not Detected.		

Data File: /var/chem/gc4.i/4030-G.b/d-b3796.d
 Report Date: 05-Jul-2000 10:01

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(ug/L)
=====	==	=====	=====	=====	=====	=====	=====	=====
20 Endrin						Compound Not Detected		
18 Toxaphene						Compound Not Detected.		
21 4,4'-DDD						Compound Not Detected.		
22 Endosulfan II						Compound Not Detected		
23 4,4'-DDT						Compound Not Detected.		
24 Endrin aldehyde						Compound Not Detected.		
26 Endosulfan sulfate						Compound Not Detected.		
25 Methoxychlor						Compound Not Detected.		
27 Endrin ketone						Compound Not Detected.		
\$ 1 Tetrachloro-m-xylene	5.693	5.693	0.000		39811		0.01851	0.1851
\$ 30 Decachlorobiphenyl	21.013	21.020	-0.007		33983		0.02040	0.2040

Data File: /var/chem/gc4.i/4030-G.b/d-b3796.d
 Date: 03-JUL-2000 14:32
 Client ID: PBLK1
 Sample Info: IFN8H101,4030-G.b,,PEST,sub,,3,
 Volume Injected (uL): 1.0
 Column phase: DB1701

Instrument: gc4.i
 Operator: 1891
 Column diameter: 0.53



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

663 445

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 111

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8M102

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/04/00

Moisture %: NA

QC Batch: 0184111

Client Sample Id: CHECK SAMPLE

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.222	
58-89-9	gamma-BHC (Lindane)	0.234	
50-29-3	4,4'-DDT	0.484	
60-57-1	Dieldrin	0.491	
72-20-8	Endrin	0.493	
76-44-8	Heptachlor	0.226	

Data File: /var/chem/gc4.i/4030-G.b/d-a3797.d
 Report Date: 05-Jul-2000 09:10

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3797.d
 Lab Smp Id: DFN8M102 Client Smp ID: LCS1
 Inj Date : 03-JUL-2000 14:58
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DFN8M102,4030-G.b,,PEST.sub,,3,
 Misc Info : 300207LCS
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTA.m
 Meth Date : 05-Jul-2000 08:44 g Quant Type: ESTD
 Cal Date : 29-JUN-2000 20:25 Cal File: d-a3733.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(ug/L)
\$ 1 Tetrachloro-m-xylene	5.733	5.740	-0.007			57925	0.01908	0.1908
28 Chlorobenzilate						Compound Not Detected.		
29 Kepone						Compound Not Detected.		
4 HEXACHLOROBBENZENE						Compound Not Detected.		
5 alpha-BHC						Compound Not Detected.		
6 gamma-BHC (Lindane)	9.467	9.467	0.000			72933	0.02391	0.2391
7 beta-BHC						Compound Not Detected.		
9 Chlordane						Compound Not Detected.		
10 Heptachlor	10.747	10.747	0.000			58611	0.02258	0.2258
8 delta-BHC						Compound Not Detected.		
11 Aldrin	11.893	11.893	0.000			55004	0.02225	0.2225
19 Isodrin						Compound Not Detected.		
12 Heptachlor epoxide						Compound Not Detected.		
13 gamma-Chlordane						Compound Not Detected.		
14 alpha-Chlordane						Compound Not Detected.		
15 Endosulfan I						Compound Not Detected.		

Data File: /var/chem/gc4.i/4030-G.b/d-a3797.d
 Report Date: 05-Jul-2000 09:10

663 447

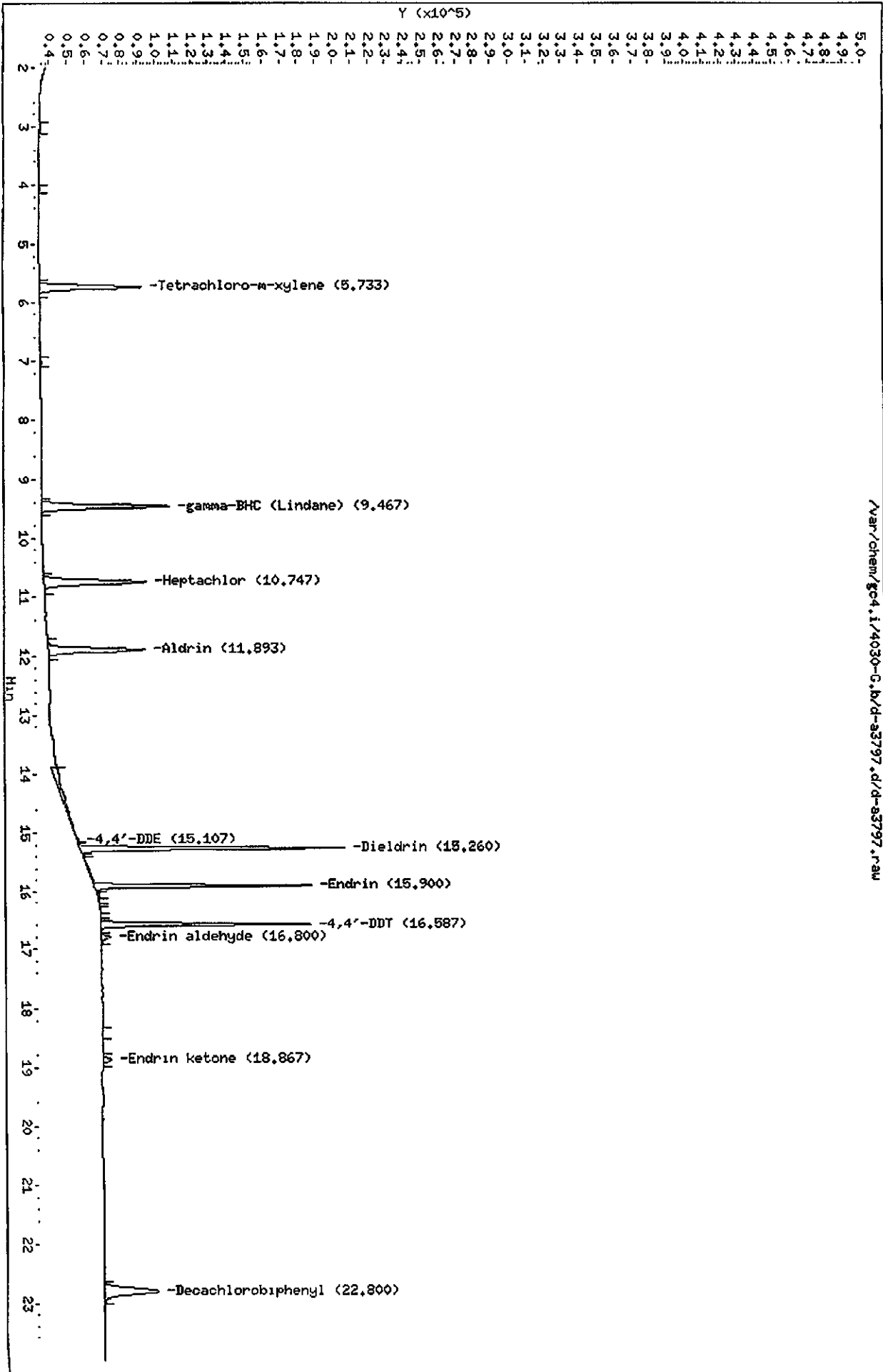
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
16 4,4'-DDE	15.107	15.113	-0.006	893	0.00029	0.002899(a)
17 Dieldrin	15.260	15.260	0.000	148598	0.04967	0.4967
20 Endrin	15.900	15.900	0.000	122331	0.04927	0.4927
21 4,4'-DDD	Compound Not Detected					
18 Toxaphene	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 4,4'-DDT	16.587	16.587	0.000	117975	0.04841	0.4841
24 Endrin aldehyde	16.800	16.800	0.000	5431	0.00261	0.02610(a)
26 Endosulfan sulfate	Compound Not Detected.					
25 Methoxychlor	Compound Not Detected.					
27 Endrin ketone	18.867	18.873	-0.006	4924	0.00226	0.02257(a)
\$ 30 Decachlorobiphenyl	22.800	22.807	-0.007	30603	0.01951	0.1951

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4030-G.b/d-s3797.d
Date: 03-JUL-2000 14:58
Client ID: LCS1
Sample Info: DFN8H102,4030-G.b,,PEST,sub,,3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53



Data File: /var/chem/gc4.i/4030-G.b/d-b3797.d
 Report Date: 05-Jul-2000 10:01

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-b3797.d
 Lab Smp Id: DFN8M102 Client Smp ID: LCS1
 Inj Date : 03-JUL-2000 14:58
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DFN8M102,4030-G.b,,PEST.sub,,3,
 Misc Info : 300207LCS
 Comment :
 Method : /var/chem/gc4.i/4030-G.b/PESTB.m
 Meth Date : 05-Jul-2000 09:58 g Quant Type: ESTD
 Cal Date : 29-JUN-2000 18:14 Cal File: d-b3728.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
5 alpha-BHC				Compound Not Detected.		
5a MIREX				Compound Not Detected.		
29 Kepone				Compound Not Detected		
4 HEXACHLORO BENZENE				Compound Not Detected.		
6 gamma-BHC (Lindane)	9.987	9.987	0.000	56338	0.02335	0.2335
7 beta-BHC				Compound Not Detected.		
9 Chlordane				Compound Not Detected		
10 Heptachlor	10.827	10.827	0.000	61474	0.02356	0.2356
8 delta-BHC				Compound Not Detected.		
11 Aldrin	11.773	11.773	0.000	58864	0.02269	0.2269
12 Heptachlor epoxide				Compound Not Detected.		
13 gamma-Chlordane				Compound Not Detected.		
14 alpha-Chlordane				Compound Not Detected.		
15 Endosulfan I				Compound Not Detected.		
16 4,4'-DDE				Compound Not Detected.		
17 Dieldrin	15.253	15.253	0.000	153969	0.04908	0.4908

Data File: /var/chem/gc4.i/4030-G.b/d-b3797.d
 Report Date: 05-Jul-2000 10:01

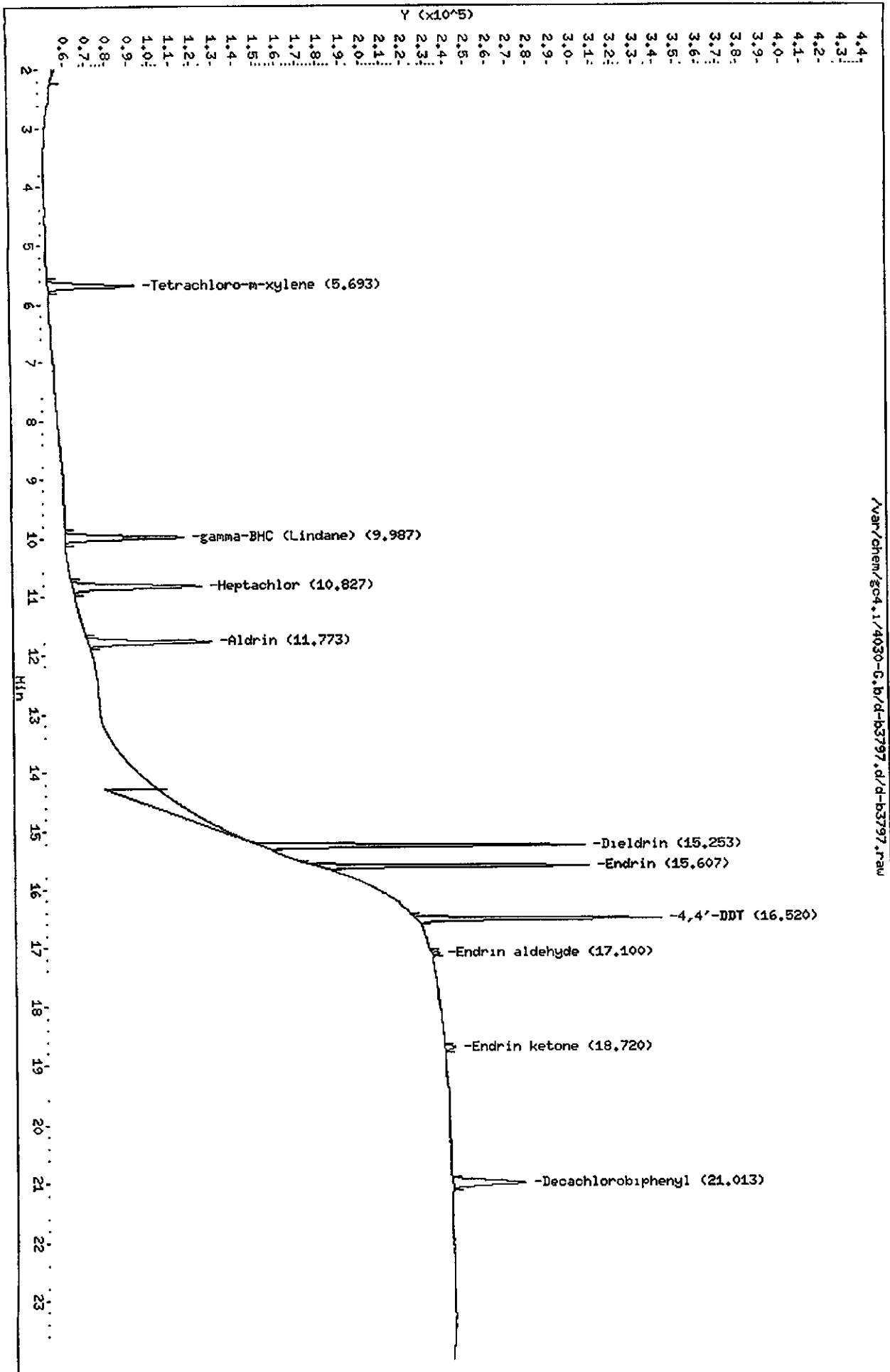
Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(ug/L)
=====	==	=====	=====	=====	=====	=====	=====	=====
20 Endrin	15.607	15.607	0.000		130031		0.05120	0.5120
18 Toxaphene	Compound Not Detected.							
21 4,4'-DDD	Compound Not Detected.							
22 Endosulfan II	Compound Not Detected.							
23 4,4'-DDT	16.520	16.520	0.000		117007		0.04977	0.4977
24 Endrin aldehyde	17.100	17.100	0.000		3362		0.00252	0.02517(a)
26 Endosulfan sulfate	Compound Not Detected.							
25 Methoxychlor	Compound Not Detected.							
27 Endrin ketone	18.720	18.720	0.000		4860		0.00230	0.02301(a)
\$ 1 Tetrachloro-m-xylene	5.693	5.693	0.000		40929		0.01903	0.1903
\$ 30 Decachlorobiphenyl	21.013	21.020	-0.007		34256		0.02057	0.2057

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/ec4.1/4030-G.b/d-b3797.d
Date: 03-JUL-2000 14:58
Client ID: LCS1
Sample Info: DFN8H02,4030-G.b,,PEST,sub,,3,
Volume Injected (ul): 1.0
Column phase: DB1701

Instrument: ec4.1
Operator: 1891
Column diameter: 0.53



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

663 452

EPA SAMPLE NO.

LCS1

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0F300207

Lab Sample ID: DFN8M102

Date(s) Analyzed: 07/03/00 07/03/00

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): DB608

ID: 0.53 (mm)

GC Column(2): DB1701

ID: 0.53 (mm)

ANALYTE =====	COL =====	RT =====	RT WINDOW		CONCENTRATION =====	%D =====
			FROM =====	TO =====		
gamma-BHC (Lindane)	1	9.47	9.40	9.50	0.2391	
	2	9.99	9.94	10.04	0.2335	2.4
Heptachlor	1	10.75	10.68	10.78	0.2258	
	2	10.83	10.78	10.88	0.2356	4.3
Aldrin	1	11.89	11.84	11.94	0.2225	
	2	11.77	11.72	11.82	0.2269	2.0
Dieldrin	1	15.26	15.20	15.30	0.4967	
	2	15.25	15.20	15.30	0.4908	1.2
Endrin	1	15.90	15.84	15.94	0.4927	
	2	15.61	15.56	15.66	0.5120	3.9
4,4'-DDT	1	16.59	16.53	16.63	0.4841	
	2	16.52	16.47	16.57	0.4977	2.8
Endrin ketone	1	18.87	18.81	18.91	0.02257	
	2	18.72	18.67	18.77	0.02301	1.9
Endrin aldehyde	1	16.80	16.74	16.84	0.02610	
	2	17.10	17.05	17.15	0.02517	3.7

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 111

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8M103

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/04/00

Moisture %: NA

QC Batch: 0184111

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.209	
58-89-9	gamma-BHC (Lindane)	0.218	
50-29-3	4,4'-DDT	0.541	
60-57-1	Dieldrin	0.456	
72-20-8	Endrin	0.499	
76-44-8	Heptachlor	0.215	

Data File: /var/chem/gc4.i/4030-G.b/d-a3798.d
Report Date: 05-Jul-2000 09:10

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-a3798.d
Lab Smp Id: DFN8M103 Client Smp ID: LCD1
Inj Date : 03-JUL-2000 15:24
Operator : 1891 Inst ID: gc4.i
Smp Info : DFN8M103,4030-G.b,,PEST.sub,,3,
Misc Info : 300207LCD
Comment :
Method : /var/chem/gc4.i/4030-G.b/PESTA.m
Meth Date : 05-Jul-2000 08:44 g Quant Type: ESTD
Cal Date : 29-JUN-2000 20:25 Cal File: d-a3733.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.40

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 1 Tetrachloro-m-xylene	5.733	5.740	-0.007	53722	0.01769	0.1769
28 Chlorobenzilate				Compound Not Detected.		
29 Kepone				Compound Not Detected.		
4 HEXACHLOROBENZENE				Compound Not Detected.		
5 alpha-BHC				Compound Not Detected.		
6 gamma-BHC (Lindane)	9.460	9.467	-0.007	68982	0.02262	0.2262
7 beta-BHC				Compound Not Detected.		
9 Chlordane				Compound Not Detected.		
10 Heptachlor	10.740	10.747	-0.007	55806	0.02150	0.2150
8 delta-BHC				Compound Not Detected.		
11 Aldrin	11.887	11.893	-0.006	51726	0.02092	0.2092
19 Isodrin				Compound Not Detected.		
12 Heptachlor epoxide				Compound Not Detected.		
13 gamma-Chlordane				Compound Not Detected.		
14 alpha-Chlordane				Compound Not Detected.		
15 Endosulfan I				Compound Not Detected.		

Data File: /var/chem/gc4.i/4030-G.b/d-a3798.d
 Report Date: 05-Jul-2000 09:10

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
16 4,4'-DDE	15.100	15.113	-0.013	1583	0.000514	0.005139 (a)
17 Dieldrin	15.260	15.260	0.000	137962	0.04611	0.4611
20 Endrin	15.900	15.900	0.000	130167	0.05242	0.5242
21 4,4'-DDD	Compound Not Detected.					
18 Toxaphene	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 4,4'-DDT	16.580	16.587	-0.007	131862	0.05411	0.5411
24 Endrin aldehyde	16.800	16.800	0.000	19226	0.00924	0.09241
26 Endosulfan sulfate	17.013	17.040	-0.027	7001	0.00318	0.03184 (a)
25 Methoxychlor	Compound Not Detected.					
27 Endrin ketone	18.873	18.873	0.000	9831	0.00451	0.04507 (a)
\$ 30 Decachlorobiphenyl	22.793	22.807	-0.014	30021	0.01914	0.1914

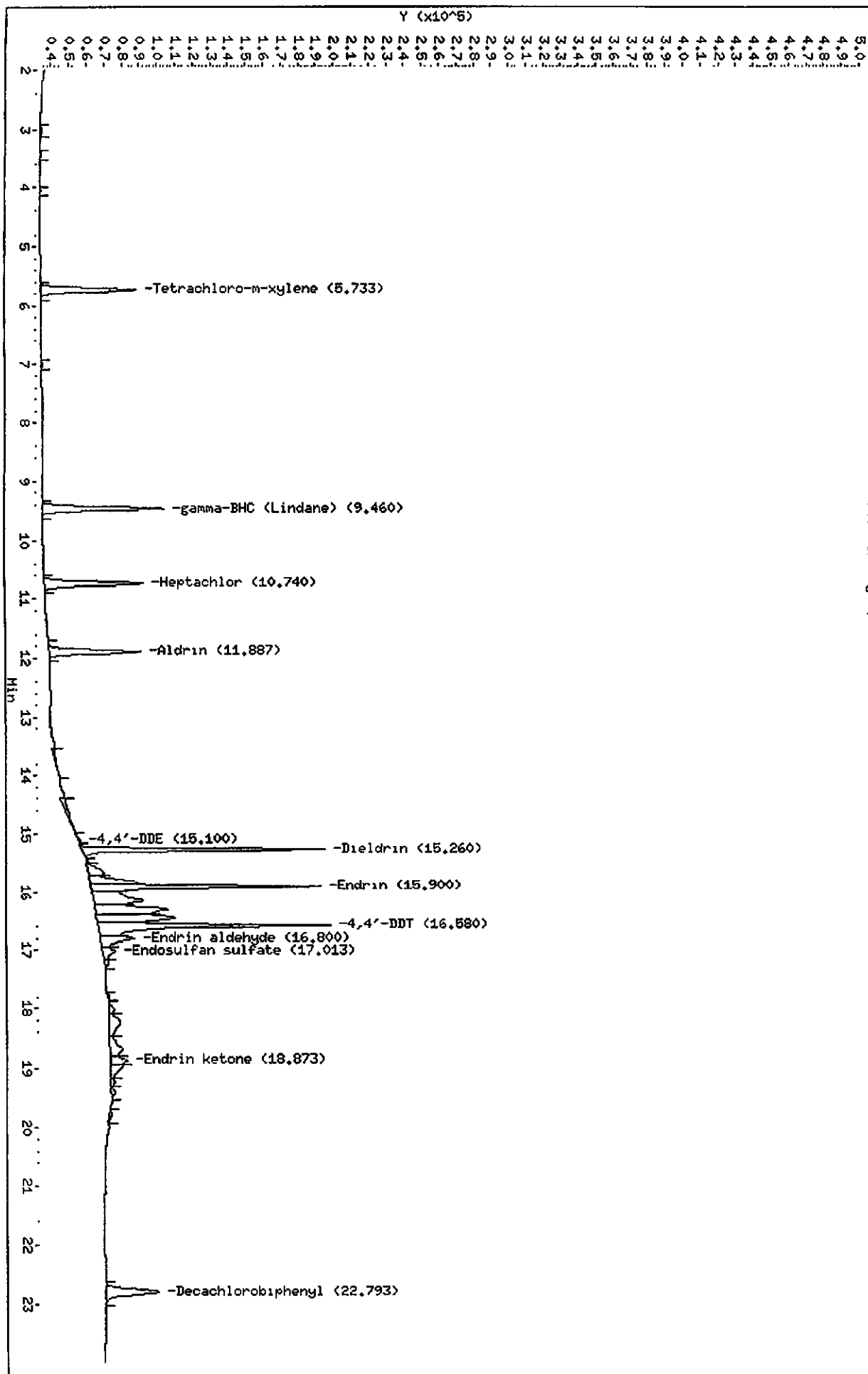
QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gc4.i/4030-G.b/d-a3798.d
Date : 03-JUL-2000 15:24
Client ID: LCM1
Sample Info: DFN8H403,4030-G.b, PEST, sub, 3,
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53

/var/chem/gc4.i/4030-G.b/d-a3798.d/d-a3798.raw



Data File: /var/chem/gc4.i/4030-G.b/d-b3798.d
Report Date: 05-Jul-2000 10:01

STL-PITTSBURGH

Data file : /var/chem/gc4.i/4030-G.b/d-b3798.d
Lab Smp Id: DFN8M103 Client Smp ID: LCD1
Inj Date : 03-JUL-2000 15:24
Operator : 1891 Inst ID: gc4.i
Smp Info : DFN8M103,4030-G.b,,PEST.sub,,3,
Misc Info : 300207LCD
Comment :
Method : /var/chem/gc4.i/4030-G.b/PESTB.m
Meth Date : 05-Jul-2000 09:58 g Quant Type: ESTD
Cal Date : 29-JUN-2000 18:14 Cal File: d-b3728.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 3.40

Concentration Formula: Amt * DF * (Vt/Vo)/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(ug/L)
5 alpha-BHC						Compound Not Detected.		
58 MIREX						Compound Not Detected.		
29 Kepone						Compound Not Detected.		
4 HEXACHLOROBENZENE						Compound Not Detected.		
6 gamma-BHC (Lindane)	9.987	9.987	0	000	52499	0.02176	0.2176	
7 beta-BHC	12.453	12.467	-0	014	598	0.000431	0.004309 (a)	
9 Chlordane						Compound Not Detected.		
10 Heptachlor	10.827	10.827	0	000	57063	0.02187	0.2187	
8 delta-BHC						Compound Not Detected.		
11 Aldrin	11.767	11.773	-0	006	54897	0.02116	0.2116	
12 Heptachlor epoxide						Compound Not Detected.		
13 gamma-Chlordane						Compound Not Detected.		
14 alpha-Chlordane						Compound Not Detected.		
15 Endosulfan I						Compound Not Detected.		
16 4,4'-DDE						Compound Not Detected.		
17 Dieldrin	15.253	15.253	0	000	142996	0.04559	0.4558	

Data File: /var/chem/gc4.i/4030-G.b/d-b3798.d
 Report Date: 05-Jul-2000 10:01

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
20 Endrin	15.607	15.607	0.000	126711	0.04989	0.4989
18 Toxaphene	Compound Not Detected.					
21 4,4'-DDD	Compound Not Detected.					
22 Endosulfan II	16.353	16.373	-0.020	32878	0.01165	0.1165
23 4,4'-DDT	16.520	16.520	0.000	138608	0.05896	0.5896
24 Endrin aldehyde	17.093	17.100	-0.007	40074	0.03000	0.3000
26 Endosulfan sulfate	Compound Not Detected.					
25 Methoxychlor	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
\$ 1 Tetrachloro-m-xylene	5.687	5.693	-0.006	37790	0.01757	0.1757
\$ 30 Decachlorobiphenyl	21.013	21.020	-0.007	32060	0.01925	0.1925

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

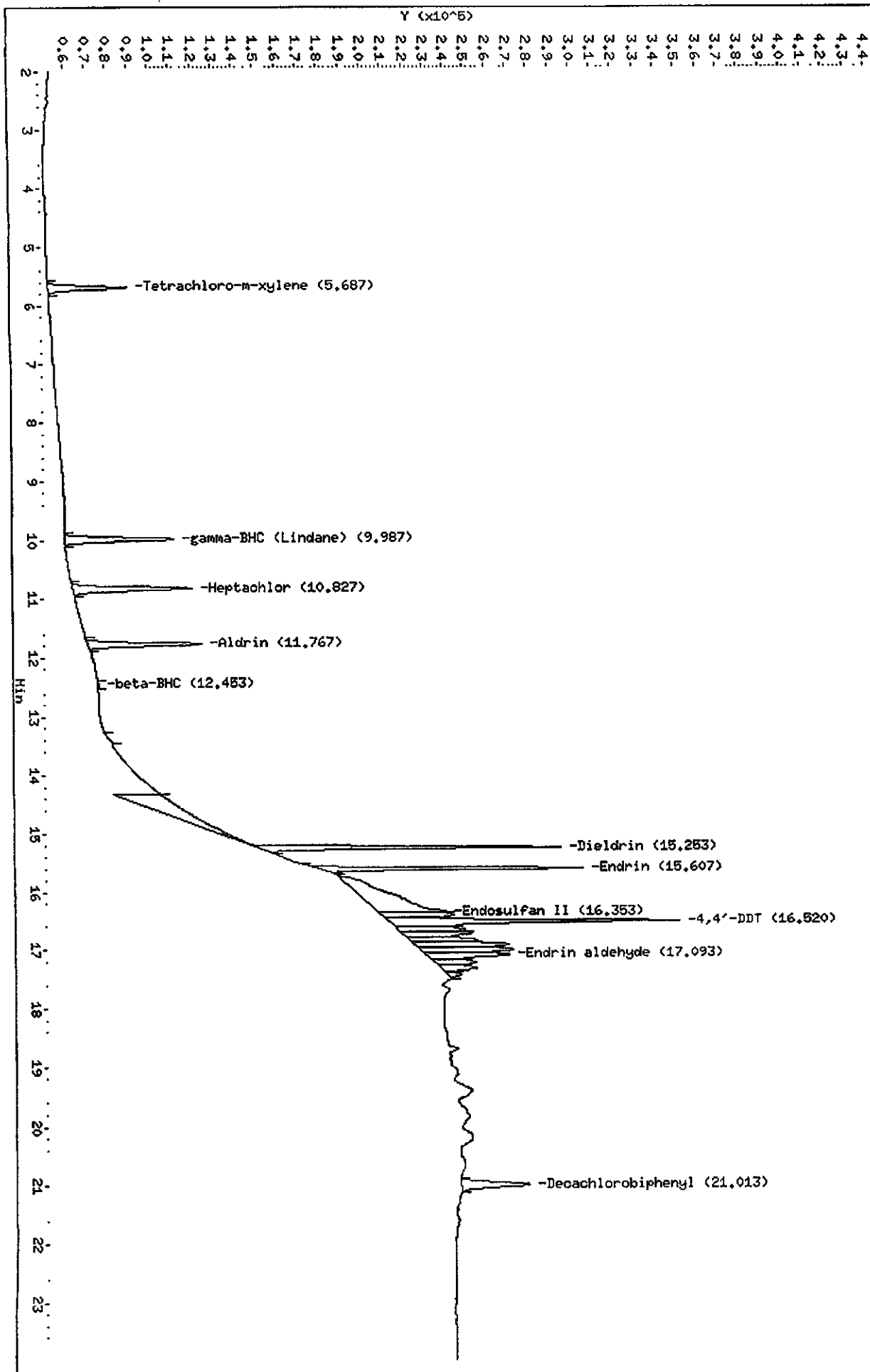
663

453

Data File: /var/chem/gc4.i/4030-G.b/d-b3798.d
Date: 03-JUL-2000 15:24
Client ID: LCD1
Sample Info: DFN8403.4030-G.b, PEST, sub, 3,
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc4.i
Operator: 1891
Column diameter: 0.53

/var/chem/gc4.i/4030-G.b/d-b3798.d/d-b3798.raw



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

663 460

EPA SAMPLE NO.

LCD1

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: 40325

SDG No.: C0F300207

Lab Sample ID: DFN8M103

Date(s) Analyzed: 07/03/00 07/03/00

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): DB608

ID: 0.53 (mm)

GC Column(2): DB1701

ID: 0.53 (mm)

ANALYTE =====	COL ==	RT =====	RT WINDOW		CONCENTRATION =====	%D =====
			FROM =====	TO =====		
gamma-BHC (Lindane)	1	9.46	9.40	9.50	0.2262	
	2	9.99	9.94	10.04	0.2176	4.0
Heptachlor	1	10.74	10.68	10.78	0.2150	
	2	10.83	10.78	10.88	0.2187	1.7
Aldrin	1	11.89	11.84	11.94	0.2092	
	2	11.77	11.72	11.82	0.2116	1.1
Dieldrin	1	15.26	15.20	15.30	0.4611	
	2	15.25	15.20	15.30	0.4558	1.2
Endrin	1	15.90	15.84	15.94	0.5242	
	2	15.61	15.56	15.66	0.4989	5.1
4,4'-DDT	1	16.58	16.53	16.63	0.5411	
	2	16.52	16.47	16.57	0.5896	9.0
Endrin aldehyde	1	16.80	16.74	16.84	0.09241	
	2	17.09	17.05	17.15	0.3000	224.6
	1					
	2					

663 461

**PESTICIDE
MISCELLANEOUS**

Separatory Funnel Extraction Worksheet

Pest T6AD
Feb Acid Denials
UM 7/13/00

Pest/PCB

Pest B# 0184111
PCB B# 0184112

Hexane 1144288822



STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

Date Extraction Began	Date Completed	Parameter	Method	pH	Sample Volume (mL)	Final Volume (mL)	Surrogate Number	Surrogate Volume (mL)	Matrix Spike No.	Matrix Spike Volume (mL)	Cleanup Date
7-2-00	7-2-00	8081A/8082	3510C	5	1000	10.0	190-95-4	1.0	NA	1.0	7-2-00
Lot Number	Sample ID	Client ID									
C0F300207	BLK	ALA									
2.	LC5	3 Pest									
3.	LC50AP										
4.	LC5	3 PCB									
5.	LC50AP										
6.	001	P/P									
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											
15.											
16.											
17.											
18.											
19.											
20.											
21.											
22.											
23.											
24.											
Analyst	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.
Extract(s)											
(Record line number from above)											
ATL Above	7-2-00	1750	Baker	Org. Prep	7-2-00	1950	Baker	7-2-00	1950	Baker	7-2-00
ALL Above	7/13/00	0900	Mayfield	Org. Prep	7/13/00	0945	Mayfield	7/13/00	0945	Mayfield	7/13/00
Sodium Sulfate Mfg.	Baker										
Lot Number	240624										
Reviewed By	Ja										
Date	7-8-00										
Location	DEF-6C										

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\3270-G.SEQ
Created by : DE11/02/98 on : 6/27/00 15:27
Edited by : LM06/27/00 on : 6/29/00 09:03
Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
REVIEWED BY:

663 463

G

Number of Times Edited : 5

Sequence File Header Information:

Number of Rows : 65
Instrument Type : 760 / 900 Series Intelligent Interface
Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB, 3270-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal:Replace	MEDTOX, 3270-G.b	190-84-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR, 3270-G	190-85-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Cal:Replace	LOWA, 3270-G.b,,	190-84-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLOWA, 3270-G.b,	190-84-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDA, 3270-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal:Replace	MHIGHA, 3270-G.b	190-84-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	HIGHA, 3270-G.b,	190-84-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	LOWB, 3270-G.b,,	190-84-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	MLOWB, 3270-G.b,	190-84-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	MEDB, 3270-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHB, 3270-G.b	190-84-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal:Replace	HIGHB, 3270-G.b,	190-84-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A, 3270-G.b,	190-82-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Std Check	2ND B, 3270-G.b,	190-82-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	EVALB, 3270-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DEVRE102, 3270-G	170107001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	~~DEVRE102, 3270-G~~	~~170107002~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DEVRE102, 3270-G	170107003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DEVRE102, 3270-G	170107004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DEVRE102, 3270-G	170107005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	~~DEVRE102, 3270-G~~	~~170107006~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DEVRE102, 3270-G	170107007		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DEVRE102, 3270-G	170107008		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DEVRE102, 3270-G	170107009		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DEVRE102, 3270-G	170107010		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	~~DEVRE102, 3270-G~~	~~170107011~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	~~DEVRE102, 3270-G~~	~~170107012~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DEVRE102, 3270-G	170107013		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	~~DEVRE102, 3270-G~~	~~170107014~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DEVRE102, 3270-G	170107015		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DEVRE102, 3270-G	170107016		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DEVRE102, 3270-G	170107017		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	~~DEVRE102, 3270-G~~	~~170107018~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DEVRE102, 3270-G	170107019		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DEVRE102, 3270-G	170107020		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Std Check	MEDA, 3270-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Std Check	MEDB, 3270-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	EVALB, 3270-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DEVRE102, 3270-G	170107021		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DEVRE102, 3270-G	170107022		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DEVRE102, 3270-G	170107023		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	~~DEVRE102, 3270-G~~	~~170107024~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	DEVRE102, 3270-G	170107025		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	~~DEVRE102, 3270-G~~	~~170107026~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	DEVRE102, 3270-G	170107027		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DEVRE102, 3270-G	170107028		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DEVRE102, 3270-G	170107029		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	DEVRE102, 3270-G	170107030		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DEVRE102, 3270-G	170107031		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DEVRE102, 3270-G	170107032		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DEVRE102, 3270-G	170107033		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DEVRE102, 3270-G	170107034		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DEVRE102, 3270-G	170107035		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DEVRE102, 3270-G	170107036		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DEVRE102, 3270-G	170107037		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DEVRE102, 3270-G	170107038		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DEVRE102, 3270-G	170107039		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DEVRE102, 3270-G	170107040		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

60	Std Check	MEDA, 3270-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
61	Std Check	MEDB, 3270-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
62	Std Check	EVALB, 3270-G.b.,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
63	Sample	DF7XF102, 3270-G	170107LCS2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Std Check	MEDA, 3270-G.b.,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
65	Std Check	MEDB, 3270-G.b.,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

663 464

Sequence Process Information - Channel A

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3658	D-A3658		D-A3658	-	-	-	LPT1
2	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A3659	D-A3659		D-A3659	N	MED	N	LPT1, LPT
3	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A3660	D-A3660		D-A3660	N	MED	N	LPT1, LPT
4	-	1	4	GEN4C	GEN4A	122190A	INDA	D-A3661	D-A3661		D-A3661	N	LOW	N	LPT1
5	-	1	5	GEN4C	GEN4A	122190A	INDA	D-A3662	D-A3662		D-A3662	N	MLOW	N	LPT1
6	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3663	D-A3663		D-A3663	N	MLOW	N	LPT1
7	-	1	7	GEN4C	GEN4A	122190A	INDA	D-A3664	D-A3664		D-A3664	N	MLOW	N	LPT1
8	-	1	8	GEN4C	GEN4A	122190A	INDA	D-A3665	D-A3665		D-A3665	N	MLOW	N	LPT1
9	-	1	9	GEN4C	GEN4A	122190A	INDA	D-A3666	D-A3666		D-A3666	N	LOW	N	LPT1
10	-	1	10	GEN4C	GEN4A	122190A	INDA	D-A3667	D-A3667		D-A3667	N	MLOW	N	LPT1
11	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3668	D-A3668		D-A3668	N	MLOW	N	LPT1
12	-	1	12	GEN4C	GEN4A	122190A	INDA	D-A3669	D-A3669		D-A3669	N	MLOW	N	LPT1
13	-	1	13	GEN4C	GEN4A	122190A	INDA	D-A3670	D-A3670		D-A3670	N	MLOW	N	LPT1
14	-	1	23	GEN4C	GEN4A	122190A	INDA	D-A3671	D-A3671		D-A3671	-	-	-	LPT1
15	-	1	24	GEN4C	GEN4A	122190A	INDA	D-A3672	D-A3672		D-A3672	-	-	-	LPT1
16	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3673	D-A3673		D-A3673	-	-	-	LPT1
17	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3674	D-A3674		D-A3674	-	-	-	LPT1
18	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3675	D-A3675		D-A3675	-	-	-	LPT1
19	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3676	D-A3676		D-A3676	-	-	-	LPT1
20	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3677	D-A3677		D-A3677	-	-	-	LPT1
21	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3678	D-A3678		D-A3678	-	-	-	LPT1
22	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3679	D-A3679		D-A3679	-	-	-	LPT1
23	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3680	D-A3680		D-A3680	-	-	-	LPT1
24	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3681	D-A3681		D-A3681	-	-	-	LPT1
25	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3682	D-A3682		D-A3682	-	-	-	LPT1
26	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3683	D-A3683		D-A3683	-	-	-	LPT1
27	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3684	D-A3684		D-A3684	-	-	-	LPT1
28	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3685	D-A3685		D-A3685	-	-	-	LPT1
29	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3686	D-A3686		D-A3686	-	-	-	LPT1
30	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3687	D-A3687		D-A3687	-	-	-	LPT1
31	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3688	D-A3688		D-A3688	-	-	-	LPT1
32	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3689	D-A3689		D-A3689	-	-	-	LPT1
33	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3690	D-A3690		D-A3690	-	-	-	LPT1
34	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3691	D-A3691		D-A3691	-	-	-	LPT1
35	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3692	D-A3692		D-A3692	-	-	-	LPT1
36	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3693	D-A3693		D-A3693	-	-	-	LPT1
37	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3694	D-A3694		D-A3694	-	-	-	LPT1
38	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3695	D-A3695		D-A3695	-	-	-	LPT1
39	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3696	D-A3696		D-A3696	-	-	-	LPT1
40	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3697	D-A3697		D-A3697	-	-	-	LPT1
41	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3698	D-A3698		D-A3698	-	-	-	LPT1
42	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3699	D-A3699		D-A3699	-	-	-	LPT1
43	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3700	D-A3700		D-A3700	-	-	-	LPT1
44	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3701	D-A3701		D-A3701	-	-	-	LPT1
45	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3702	D-A3702		D-A3702	-	-	-	LPT1
46	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3703	D-A3703		D-A3703	-	-	-	LPT1
47	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3704	D-A3704		D-A3704	-	-	-	LPT1
48	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3705	D-A3705		D-A3705	-	-	-	LPT1
49	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3706	D-A3706		D-A3706	-	-	-	LPT1
50	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3707	D-A3707		D-A3707	-	-	-	LPT1
51	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3708	D-A3708		D-A3708	-	-	-	LPT1
52	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3709	D-A3709		D-A3709	-	-	-	LPT1
53	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3710	D-A3710		D-A3710	-	-	-	LPT1
54	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3711	D-A3711		D-A3711	-	-	-	LPT1
55	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3712	D-A3712		D-A3712	-	-	-	LPT1
56	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3713	D-A3713		D-A3713	-	-	-	LPT1
57	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3714	D-A3714		D-A3714	-	-	-	LPT1
58	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3715	D-A3715		D-A3715	-	-	-	LPT1
59	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3716	D-A3716		D-A3716	-	-	-	LPT1
60	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3717	D-A3717		D-A3717	-	-	-	LPT1
61	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3718	D-A3718		D-A3718	-	-	-	LPT1
62	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3719	D-A3719		D-A3719	-	-	-	LPT1
63	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3720	D-A3720		D-A3720	-	-	-	LPT1
64	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3721	D-A3721		D-A3721	-	-	-	LPT1
65	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3722	D-A3722		D-A3722	-	-	-	LPT1

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\4030-G.SEQ
 Created by : DE11/02/98 on : 7/3/00 11:21
 Edited by : LM04/03/00 on : 7/5/00 08:25
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
 REVIEWED BY:

663 465

G

Number of Times Edited : 3

Sequence File Header Information:

Number of Rows : 45
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

✓
 WMP
 7/5/00

Row	Type	Sample Name	Sample Number	Sequence Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm factor
1	Std Check	EVALB, 4030-G.b.,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal:Replace	MEDTOX, 4030-G.b	190-84-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR, 4030-G	190-85-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Std Check	MEDA, 4030-G.b.,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Std Check	MEDB, 4030-G.b.,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	DFKQV10X, 4030-G	300204002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	DFKQV12L, 4030-G	300204002S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	DFKQV12M, 4030-G	300204002D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	DFKRE10X, 4030-G	300204003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	DFKRK10X, 4030-G	300204004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	DFN8H101, 4030-G	300204BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	DFN8H102, 4030-G	300204LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	DFKQ3103, 4030-G	300207-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	DFN8M101, 4030-G	300207BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	DFN8M102, 4030-G	300207LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	DFN8M103, 4030-G	300207LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DEKR1108, 4030-G	130163-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DEKR111A, 4030-G	130163-1S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DEKR111C, 4030-G	130163-1D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DEKRH108, 4030-G	130163-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DEKRJ108, 4030-G	130163-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DFDCN104, 4030-G	150298BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DER4P106, 4030-G	150298-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DFDCN101, 4030-G	130163BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DFDCN102, 4030-G	130163LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Std Check	MEDA, 4030-G.b.,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Std Check	MEDB, 4030-G.b.,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Std Check	EVALB, 4030-G.b.,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DER4T106, 4030-G	150298-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DER4V106, 4030-G	150298-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DFDCN103, 4030-G	140259BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DENJM107, 4030-G	140259-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DENJX107, 4030-G	140259-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DENK1107, 4030-G	140259-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DFDCN105, 4030-G	160278BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DEV66107, 4030-G	160278001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	DEV6810J, 4030-G	160278002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample	DEV6G107, 4030-G	160278003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample	DFAM3104, 4030-G	260151001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DFAM311C, 4030-G	260151001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DFAM311D, 4030-G	260151001D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DFLNV101, 4030-G	260151BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DFLNV102, 4030-G	260151LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Std Check	MEDA, 4030-G.b.,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Std Check	MEDB, 4030-G.b.,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel A

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3783	D-A3783		D-A3783	-	-	-	LPT1
2	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A3784	D-A3784		D-A3784	N	MED	N	LPT1, LPT
3	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A3785	D-A3785		D-A3785	N	MED	N	LPT1, LPT
4	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3786	D-A3786		D-A3786	-	-	-	LPT1
5	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3787	D-A3787		D-A3787	-	-	-	LPT1
6	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3788	D-A3788		D-A3788	-	-	-	LPT1
7	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3789	D-A3789		D-A3789	-	-	-	LPT1

9	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3790	D-A3790	D-A3790	-	-	-	LPT1:
9	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3791	D-A3791	D-A3791	-	-	-	LPT1:
10	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3792	D-A3792	D-A3792	-	-	-	LPT1:
11	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3793	D-A3793	D-A3793	-	-	-	LPT1:
12	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3794	D-A3794	D-A3794	-	-	-	LPT1:
13	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3795	D-A3795	D-A3795	-	-	-	LPT1:
14	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3796	D-A3796	D-A3796	-	-	-	LPT1:
15	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3797	D-A3797	D-A3797	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3798	D-A3798	D-A3798	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3799	D-A3799	D-A3799	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3800	D-A3800	D-A3800	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3801	D-A3801	D-A3801	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3802	D-A3802	D-A3802	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3803	D-A3803	D-A3803	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3804	D-A3804	D-A3804	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3805	D-A3805	D-A3805	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3806	D-A3806	D-A3806	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3807	D-A3807	D-A3807	-	-	-	LPT1:
26	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3808	D-A3808	D-A3808	-	-	-	LPT1:
27	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3809	D-A3809	D-A3809	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3810	D-A3810	D-A3810	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3811	D-A3811	D-A3811	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3812	D-A3812	D-A3812	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3813	D-A3813	D-A3813	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3814	D-A3814	D-A3814	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3815	D-A3815	D-A3815	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3816	D-A3816	D-A3816	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3817	D-A3817	D-A3817	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3818	D-A3818	D-A3818	-	-	-	LPT1:
37	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3819	D-A3819	D-A3819	-	-	-	LPT1:
38	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3820	D-A3820	D-A3820	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3821	D-A3821	D-A3821	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3822	D-A3822	D-A3822	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3823	D-A3823	D-A3823	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3824	D-A3824	D-A3824	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A3825	D-A3825	D-A3825	-	-	-	LPT1:
44	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A3826	D-A3826	D-A3826	-	-	-	LPT1:
45	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A3827	D-A3827	D-A3827	-	-	-	LPT1:

663 466

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\3270-G.SEQ
 Created by : DE11/02/98 on : 6/27/00 15:27
 Edited by : LM06/27/00 on : 6/29/00 09:03
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
 REVIEWED BY:

663 467

Number of Times Edited : 5

Sequence File Header Information:

Number of Rows : 65
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Sequence Sample Descriptions - Channel B												
Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB, 3270-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal:Replace	MEDTOX, 3270-G.b	190-84-13		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR, 3270-G	190-85-10		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Cal:Replace	LOWA, 3270-G.b,,	190-84-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLOWA, 3270-G.b,	190-84-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDA, 3270-G.b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal:Replace	MHIGHA, 3270-G.b	190-84-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	HIGHA, 3270-G.b,	190-84-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	LOWB, 3270-G.b,,	190-84-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	MLOWB, 3270-G.b,	190-84-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	MEDB, 3270-G b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHB, 3270-G.b	190-84-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal:Replace	HIGHB, 3270-G.b,	190-84-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A, 3270-G.b,	190-82-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Std Check	2ND B, 3270-G.b,	190-82-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	EVALB, 3270-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DEVRE102, 3270-G	170107001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	~~DEVRE102, 3270-G~~	~~170107002~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DEVRE102, 3270-G	170107003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DEVRE102, 3270-G	170107004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DEVRE102, 3270-G	170107005		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	~~DEVRE102, 3270-G~~	~~170107006~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DEVRE102, 3270-G	170107007		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DEVRE102, 3270-G	170107008		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DEVRE102, 3270-G	170107009		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DEVRE102, 3270-G	170107010		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	~~DEVRE102, 3270-G~~	~~170107011~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	~~DEVRE102, 3270-G~~	~~170107012~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DEVRE102, 3270-G	170107013		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	~~DEVRE102, 3270-G~~	~~170107014~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DEVRE102, 3270-G	170107015		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DEVRE102, 3270-G	170107016		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DEVRE102, 3270-G	170107017		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	~~DEVRE102, 3270-G~~	~~170107018~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DF7W3101, 3270-G	170107BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DF7W3102, 3270-G	170107LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Std Check	MEDA, 3270-G b,,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Std Check	MEDB, 3270-G.b,,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Std Check	EVALB, 3270-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DEVRE102, 3270-G	170107019		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DEVRE102, 3270-G	170107020		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DEVRE102, 3270-G	170107021		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DEVRE102, 3270-G	170107022		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Sample	~~DEVRE102, 3270-G~~	~~170107023~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Sample	DEVRE102, 3270-G	170107024		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
46	Sample	~~DEVRE102, 3270-G~~	~~170107025~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
47	Sample	DEVRE102, 3270-G	170107001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
48	Sample	DEVRE102, 3270-G	170107001D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
49	Sample	DEVRE102, 3270-G	170107021S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
50	Sample	DEVRE102, 3270-G	170107021D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
51	Sample	DEVRE102, 3270-G	170107002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
52	Sample	DEVRE102, 3270-G	170107006		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
53	Sample	DEVRE102, 3270-G	170107011		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
54	Sample	DEVRE102, 3270-G	170107012		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
55	Sample	DEVRE102, 3270-G	170107014		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
56	Sample	DEVRE102, 3270-G	170107018		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
57	Sample	DEVRE102, 3270-G	170107023		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
58	Sample	DEVRE102, 3270-G	170107027		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
59	Sample	DEVRE102, 3270-G	170107BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

60	Std Check	MEDA, 3270-G.b,,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
61	Std Check	MEDB, 3270-G.b,,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
62	Std Check	EVALB, 3270-G.b,,	190-88-8	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100,000
63	Sample	DF7XF102, 3270-G	170107LCS2	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
64	Std Check	MEDA, 3270-G.b,,	190-84-3	1.000	1.000	1.000	1.000	1.000	1.000	0.000	100 000
65	Std Check	MEDB, 3270-G.b,,	190-84-9	1.000	1.000	1.000	1.000	1.000	1.000	0 000	100 000

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Sequence Process Information - Channel B

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3658	D-B3658		D-B3658	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B3659	D-B3659		D-B3659	N	MED	N	LPT1, LPT1:
3	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B3660	D-B3660		D-B3660	N	MED	N	LPT1, LPT1:
4	-	1	4	GEN4C	GEN4B	122190A	INDA	D-B3661	D-B3661		D-B3661	N	LOW	N	LPT1:
5	-	1	5	GEN4C	GEN4B	122190A	INDA	D-B3662	D-B3662		D-B3662	N	MLOW	N	LPT1:
6	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3663	D-B3663		D-B3663	N	MLOW	N	LPT1:
7	-	1	7	GEN4C	GEN4B	122190A	INDA	D-B3664	D-B3664		D-B3664	N	MLOW	N	LPT1:
8	-	1	8	GEN4C	GEN4B	122190A	INDA	D-B3665	D-B3665		D-B3665	N	MLOW	N	LPT1:
9	-	1	9	GEN4C	GEN4B	122190A	INDA	D-B3666	D-B3666		D-B3666	N	LOW	N	LPT1:
10	-	1	10	GEN4C	GEN4B	122190A	INDA	D-B3667	D-B3667		D-B3667	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3668	D-B3668		D-B3668	N	MLOW	N	LPT1:
12	-	1	12	GEN4C	GEN4B	122190A	INDA	D-B3669	D-B3669		D-B3669	N	MLOW	N	LPT1:
13	-	1	13	GEN4C	GEN4B	122190A	INDA	D-B3670	D-B3670		D-B3670	N	MLOW	N	LPT1:
14	-	1	23	GEN4C	GEN4B	122190A	INDA	D-B3671	D-B3671		D-B3671	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4B	122190A	INDA	D-B3672	D-B3672		D-B3672	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3673	D-B3673		D-B3673	-	-	-	LPT1:
17	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3674	D-B3674		D-B3674	-	-	-	LPT1:
18	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3675	D-B3675		D-B3675	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3676	D-B3676		D-B3676	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3677	D-B3677		D-B3677	-	-	-	LPT1:
21	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3678	D-B3678		D-B3678	-	-	-	LPT1:
22	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3679	D-B3679		D-B3679	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3680	D-B3680		D-B3680	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3681	D-B3681		D-B3681	-	-	-	LPT1:
25	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3682	D-B3682		D-B3682	-	-	-	LPT1:
26	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3683	D-B3683		D-B3683	-	-	-	LPT1:
27	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3684	D-B3684		D-B3684	-	-	-	LPT1:
28	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3685	D-B3685		D-B3685	-	-	-	LPT1:
29	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3686	D-B3686		D-B3686	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3687	D-B3687		D-B3687	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3688	D-B3688		D-B3688	-	-	-	LPT1:
32	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3689	D-B3689		D-B3689	-	-	-	LPT1:
33	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3690	D-B3690		D-B3690	-	-	-	LPT1:
34	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3691	D-B3691		D-B3691	-	-	-	LPT1:
35	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3692	D-B3692		D-B3692	-	-	-	LPT1:
36	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3693	D-B3693		D-B3693	-	-	-	LPT1:
37	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3694	D-B3694		D-B3694	-	-	-	LPT1:
38	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3695	D-B3695		D-B3695	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3696	D-B3696		D-B3696	-	-	-	LPT1:
40	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3697	D-B3697		D-B3697	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3698	D-B3698		D-B3698	-	-	-	LPT1:
42	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3699	D-B3699		D-B3699	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3700	D-B3700		D-B3700	-	-	-	LPT1:
44	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3701	D-B3701		D-B3701	-	-	-	LPT1:
45	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3702	D-B3702		D-B3702	-	-	-	LPT1:
46	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3703	D-B3703		D-B3703	-	-	-	LPT1:
47	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3704	D-B3704		D-B3704	-	-	-	LPT1:
48	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3705	D-B3705		D-B3705	-	-	-	LPT1:
49	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3706	D-B3706		D-B3706	-	-	-	LPT1:
50	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3707	D-B3707		D-B3707	-	-	-	LPT1:
51	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3708	D-B3708		D-B3708	-	-	-	LPT1:
52	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3709	D-B3709		D-B3709	-	-	-	LPT1:
53	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3710	D-B3710		D-B3710	-	-	-	LPT1:
54	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3711	D-B3711		D-B3711	-	-	-	LPT1:
55	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3712	D-B3712		D-B3712	-	-	-	LPT1:
56	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3713	D-B3713		D-B3713	-	-	-	LPT1:
57	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3714	D-B3714		D-B3714	-	-	-	LPT1:
58	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3715	D-B3715		D-B3715	-	-	-	LPT1:
59	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3716	D-B3716		D-B3716	-	-	-	LPT1:
60	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3717	D-B3717		D-B3717	-	-	-	LPT1:
61	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3718	D-B3718		D-B3718	-	-	-	LPT1:
62	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3719	D-B3719		D-B3719	-	-	-	LPT1:
63	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3720	D-B3720		D-B3720	-	-	-	LPT1:
64	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3721	D-B3721		D-B3721	-	-	-	LPT1:
65	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3722	D-B3722		D-B3722	-	-	-	LPT1:

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\4030-G.SEQ
 Created by : DE11/02/98 on : 7/3/00 11:21
 Edited by : LM04/03/00 on : 7/5/00 08:25
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
 REVIEWED BY:

663 463

Number of Times Edited : 3

Sequence File Header Information:

Number of Rows : 45
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Sequence Sample Descriptions - Channel B												
Row	Type	Sample Name	Sample Number	Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor	Addend	Norm factor
1	Std Check	EVALB, 4030-G.b.,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal:Replace	MEDTOX, 4030-G.b	190-84-13		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
3	Cal:Replace	MEDCHLOR, 4030-G	190-85-10		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Std Check	MEDA, 4030-G.b.,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Std Check	MEDB, 4030-G.b.,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Sample	DFKQV10X, 4030-G	300204002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Sample	DFKQV12L, 4030-G	300204002S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Sample	DFKQV12M, 4030-G	300204002D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Sample	DFKRE10X, 4030-G	300204003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Sample	DFKRR10X, 4030-G	300204004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Sample	DFN8H101, 4030-G	300204BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Sample	DFN8H102, 4030-G	300204LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Sample	DFKQ3103, 4030-G	300207-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Sample	DFN8M101, 4030-G	300207BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Sample	DFN8M102, 4030-G	300207LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Sample	DFN8M103, 4030-G	300207LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DEKR1108, 4030-G	130163-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DEKR111A, 4030-G	130163-1S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	DEKR111C, 4030-G	130163-1D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	DEKRH109, 4030-G	130163-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DEKRJ108, 4030-G	130163-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DFDCN104, 4030-G	150298BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DER4P106, 4030-G	150298-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DFDCN101, 4030-G	130163BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DFDCN102, 4030-G	130163LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Std Check	MEDA, 4030-G.b.,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Std Check	MEDB, 4030-G.b.,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Std Check	EVALB, 4030-G.b.	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DER4T106, 4030-G	150298-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DER4V106, 4030-G	150298-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Sample	DFDCN103, 4030-G	140259BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Sample	DENJM107, 4030-G	140259-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Sample	DENJX107, 4030-G	140259-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Sample	DENK1107, 4030-G	140259-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Sample	DFDCN105, 4030-G	160278BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DEV66107, 4030-G	160278001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	DEV68107, 4030-G	160278002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Sample	DEV66107, 4030-G	160278003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Sample	DFAM3104, 4030-G	260151001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
40	Sample	DFAM311C, 4030-G	260151001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
41	Sample	DFAM311D, 4030-G	260151001D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
42	Sample	DFLNV101, 4030-G	260151BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
43	Sample	DFLNV102, 4030-G	260151LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
44	Std Check	MEDA, 4030-G.b.,	190-84-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
45	Std Check	MEDB, 4030-G.b.,	190-84-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000

Sequence Process Information - Channel B

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3783	D-B3783		D-B3783	-	-	-	LPT1
2	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B3784	D-B3784		D-B3784	N	MED	N	LPT1, LPT2
3	-	1	2	GEN4C	GEN4B	122190A	TOX	D-B3785	D-B3785		D-B3785	N	MED	N	LPT1, LPT2
4	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3786	D-B3786		D-B3786	-	-	-	LPT1
5	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3787	D-B3787		D-B3787	-	-	-	LPT1
6	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3788	D-B3788		D-B3788	-	-	-	LPT1
7	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3789	D-B3789		D-B3789	-	-	-	LPT1

8	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3790	D-B3790	D-B3790	-	-	-	LPT1
9	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3791	D-B3791	D-B3791	-	-	-	LPT1:
10	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3792	D-B3792	D-B3792	-	-	-	LPT1
11	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3793	D-B3793	D-B3793	-	-	-	LPT1
12	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3794	D-B3794	D-B3794	-	-	-	LPT1
13	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3795	D-B3795	D-B3795	-	-	-	LPT1
14	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3796	D-B3796	D-B3796	-	-	-	LPT1
15	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3797	D-B3797	D-B3797	-	-	-	LPT1
16	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3798	D-B3798	D-B3798	-	-	-	LPT1
17	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3799	D-B3799	D-B3799	-	-	-	LPT1
18	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3800	D-B3800	D-B3800	-	-	-	LPT1:
19	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3801	D-B3801	D-B3801	-	-	-	LPT1:
20	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3802	D-B3802	D-B3802	-	-	-	LPT1
21	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3803	D-B3803	D-B3803	-	-	-	LPT1
22	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3804	D-B3804	D-B3804	-	-	-	LPT1:
23	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3805	D-B3805	D-B3805	-	-	-	LPT1:
24	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3806	D-B3806	D-B3806	-	-	-	LPT1
25	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3807	D-B3807	D-B3807	-	-	-	LPT1
26	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3808	D-B3808	D-B3808	-	-	-	LPT1:
27	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3809	D-B3809	D-B3809	-	-	-	LPT1
28	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3810	D-B3810	D-B3810	-	-	-	LPT1
29	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3811	D-B3811	D-B3811	-	-	-	LPT1:
30	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3812	D-B3812	D-B3812	-	-	-	LPT1:
31	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3813	D-B3813	D-B3813	-	-	-	LPT1
32	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3814	D-B3814	D-B3814	-	-	-	LPT1
33	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3815	D-B3815	D-B3815	-	-	-	LPT1
34	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3816	D-B3816	D-B3816	-	-	-	LPT1
35	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3817	D-B3817	D-B3817	-	-	-	LPT1
36	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3818	D-B3818	D-B3818	-	-	-	LPT1
37	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3819	D-B3819	D-B3819	-	-	-	LPT1:
38	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3820	D-B3820	D-B3820	-	-	-	LPT1:
39	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3821	D-B3821	D-B3821	-	-	-	LPT1
40	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3822	D-B3822	D-B3822	-	-	-	LPT1:
41	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3823	D-B3823	D-B3823	-	-	-	LPT1
42	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3824	D-B3824	D-B3824	-	-	-	LPT1:
43	-	1	1	GEN4C	GEN4B	122190A	EVAL	D-B3825	D-B3825	D-B3825	-	-	-	LPT1:
44	-	1	6	GEN4C	GEN4B	122190A	INDA	D-B3826	D-B3826	D-B3826	-	-	-	LPT1
45	-	1	11	GEN4C	GEN4B	122190A	INDA	D-B3827	D-B3827	D-B3827	-	-	-	LPT1

663 470

663 471

PSR024 7/02/00 14:05:24 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: PINOB

METHOD: QJ Pesticides (8081A)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
2D CLP1	DFKQ3-1-03	___	247281	399411	I-09-QJ	COF300207	001		WATER	0	13 1

RELINQUISHED BY

Brian A. Piro
Brian A. Piro

RECEIVED BY

Brian A. Piro
Brian A. Piro

DATE/TIME

7-2-00 1100
7-2-00 1900

***** END OF REPORT *****

PCB DATA

PCB
QC SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0F300207

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/S1/0181/IDW/001	136*	94	01
02	METHOD BLK. DFN8N101	78	89	00
03	LCS DFN8N102	82	93	00
04	LCSD DFN8N103	79	90	00

SURROGATES

SRG01 = Tetrachloro-m-xylene

SRG02 = Decachlorobiphenyl

QC LIMITS

(45-120)

(24-128)

Column to be used to flag recovery values

* Values outside of required QC Limits

D System monitoring Compound diluted out

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8N102

BATCH: 0184112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.85	78	61 - 118	
Aroclor 1260	10.0	8.29	83	61 - 124	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8N103

BATCH: 0184112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.27	73	61 - 118	
Aroclor 1260	10.0	7.50	75	61 - 124	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DFN8N101

663

477

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: H-A40111.

Lot Number: C0F300207

Matrix: WATER

Extraction Method:

Date Extracted: 07/02/00

Date Analyzed(1): 07/04/00

Date Analyzed(2): N/A

Time Analyzed(1): 21:13

Time Analyzed(2): N/A

Instrument ID(1): M/N

Instrument ID(2): N/A

GC Column(1): N/A

ID: N/A

GC Column(2): N/A

ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/S1/0181/IDW/001	DFKQ3104	07/04/00	N/A
02	CHECK SAMPLE	DFN8N102 C	07/04/00	N/A
03	DUPLICATE CHECK	DFN8N103 L	07/04/00	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

PCB
SAMPLE DATA

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3104

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/04/00

Moisture %: NA

QC Batch: 0184112

Client Sample Id: DF/S1/0181/IDW/001

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

Data File: /var/chem/gc8.i/4030.b/h-a40109.d
 Report Date: 05-Jul-2000 11:52

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40109.d
 Lab Smp Id: DFKQ3103 Client Smp ID: DF/SI/0181/IDW/001
 Inj Date : 04-JUL-2000 20:34
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DFKQ3103,4030.b
 Misc Info : 300207001
 Comment :
 Method : /var/chem/gc8.i/4030.b/PCBA.m
 Meth Date : 05-Jul-2000 10:17 eppinged Quant Type: ESTD
 Cal Date : 03-JUL-2000 17:17 Cal File: h-a40025.d
 Als bottle: 93
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PCB.sub
 Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO		
*****			*****	*****	*****	*****	*****		
\$ 1	Tetrachloro-m-xylene				CAS #:	877-09-8			
1 730	1 733	-0.003	22088514	0.02729	0 27286	0.00-	0.00	0.00	

8 Aroclor-1221

CAS #: 11104-28-2

Operator disabled compound identification

14 Aroclor-1232

CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

Data File: /var/chem/gc8.i/4030.b/h-a40109.d
Report Date: 05-Jul-2000 11:52

CONCENTRATIONS									
			ON-COL		FINAL				
RT	EXP RT	DLT RT	RESPONSE (ng)		(ug/L)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====		
15 Aroclor-1242			CAS #. 53469-21-9						
Peaks not detected for Quant. or Qual. signal(s).									

20 Aroclor-1016			CAS #: 12674-11-2						
Operator disabled compound identification.									

21 Aroclor-1248			CAS # 12672-29-6						
Peaks not detected for Quant. or Qual. signal(s)									

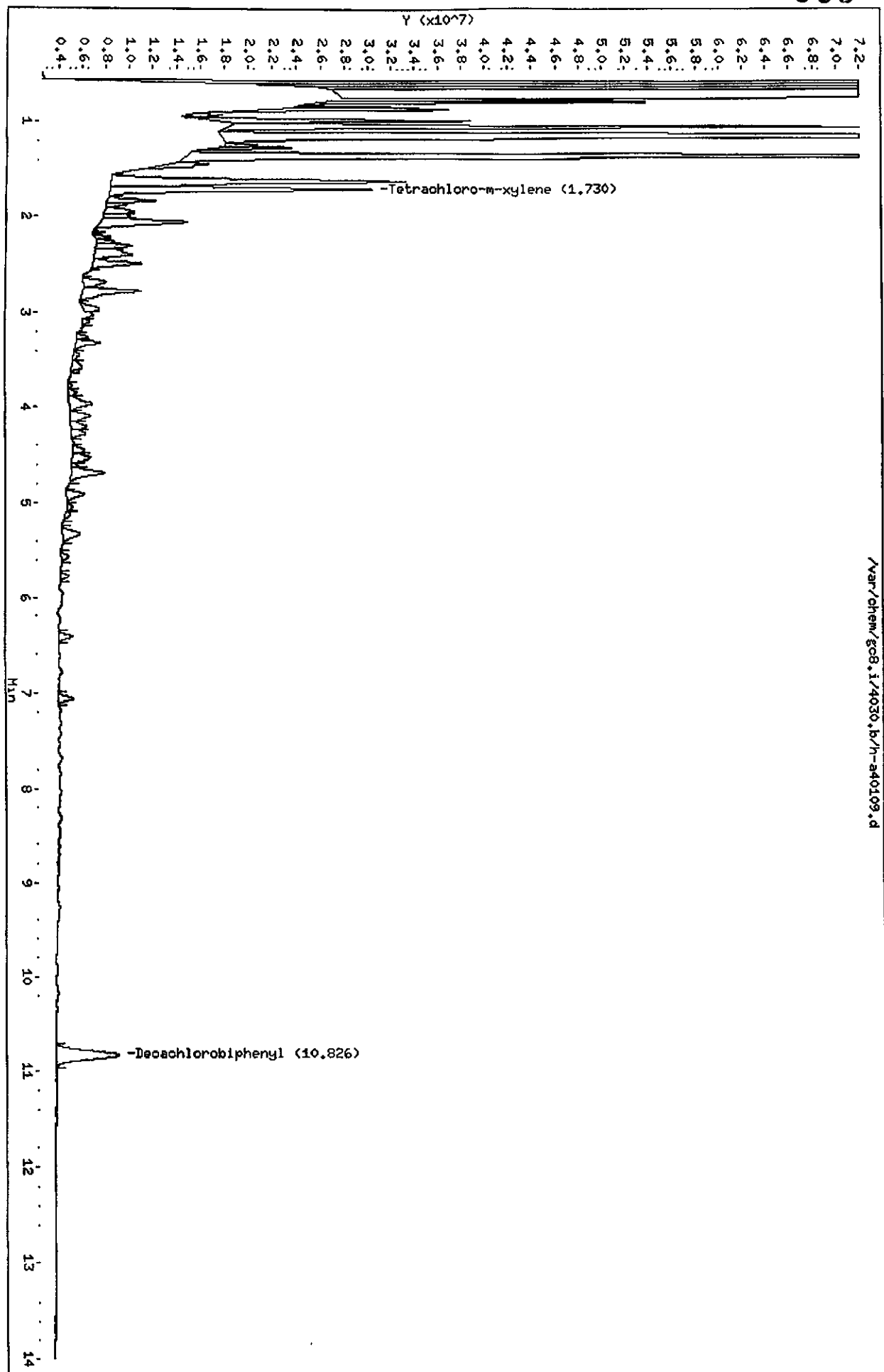
33 Aroclor-1254			CAS #: 11097-69-1						
Operator disabled compound identification.									

\$	34	Decachlorobiphenyl		CAS #: 2051-24-3					
10.826	10	828	-0.002	5236662	0.01883	0.18835	0.00-	0 00	0.00

36 Aroclor-1260			CAS #: 11096-82-5						
Peaks not detected for Quant. or Qual signal(s).									

Data File: /var/chem/gc8.i/4030.b/h-a40109.d
Date : 04-JUL-2000 20:34
Client ID: DF/SI/0484/IDM/001
Sample Info: DFK3103,4030.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53



**PCB
CALIBRATION DATA**

STL-PITTSBURGH

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUL-2000 14:39
 End Cal Date : 03-JUL-2000 17:17
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.40
 Integrator : Falcon
 Method file : /var/chem/gc8.i/4030.b/PCBA.m
 Cal Date : 05-Jul-2000 10:07 eppinged
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gc8.i/4030.b/h-a40021.d
 Level 2: /var/chem/gc8.i/4030.b/h-a40022.d
 Level 3: /var/chem/gc8.i/4030.b/h-a40023.d
 Level 4: /var/chem/gc8.i/4030.b/h-a40024.d
 Level 5: /var/chem/gc8.i/4030.b/h-a40025.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
-----	-----	-----	-----	-----	-----	-----	-----
51 Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Aroclor-1221(1)	+++++	+++++	7541112	+++++	+++++	7541112	0.000
(2)	+++++	+++++	4759512	+++++	+++++	4759512	0.000
(3)	+++++	+++++	14719072	+++++	+++++	14719072	0.000
14 Aroclor-1232(1)	+++++	+++++	9408850	+++++	+++++	9408850	0.000
(2)	+++++	+++++	14398434	+++++	+++++	14398434	0.000
(3)	+++++	+++++	9467532	+++++	+++++	9467532	0.000
(4)	+++++	+++++	6950156	+++++	+++++	6950156	0.000
15 Aroclor-1242(1)	+++++	+++++	16658946	+++++	+++++	16658946	0.000
(2)	+++++	+++++	27405150	+++++	+++++	27405150	0.000
(3)	+++++	+++++	11830452	+++++	+++++	11830452	0.000
(4)	+++++	+++++	16664864	+++++	+++++	16664864	0.000
(5)	+++++	+++++	11932474	+++++	+++++	11932474	0.000
20 Aroclor-1016(1)	14435810	14284110	14614762	11157565	10158214	12930092	16.298
(2)	27064830	25845425	27276728	20772699	19351829	24062302	15.485
(3)	42398030	41630065	45304676	35006181	33658225	39599435	12.683
(4)	19948640	19260335	20417578	15243662	14396092	17853261	15.770
(5)	27343520	26132510	27252666	21124992	18647338	24100205	16.490
21 Aroclor-1248(1)	+++++	+++++	18965438	+++++	+++++	18965438	0.000
(2)	+++++	+++++	17842970	+++++	+++++	17842970	0.000
(3)	+++++	+++++	21696928	+++++	+++++	21696928	0.000
(4)	+++++	+++++	22616062	+++++	+++++	22616062	0.000
(5)	+++++	+++++	21458948	+++++	+++++	21458948	0.000

Report Date : 05-Jul-2000 10:07

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HP68908m
DB608

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Page 2

STL-PITTSBURGH

INITIAL CALIBRATION DATA

Start Cal Date : 03-JUL-2000 14:39
End Cal Date : 03-JUL-2000 17:17
Quant Method : ESTD
Origin : Disabled
Target Version : 3.40
Integrator : Falcon
Method file : /var/chem/gc8.i/4030.b/PCBA.m
Cal Date : 05-Jul-2000 10:07 eppinged
Curve Type : Average

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
33 Aroclor-1254 (1)	+++++	+++++	17620014	+++++	+++++	17620014	0.000
(2)	+++++	+++++	21513626	+++++	+++++	21513626	0.000
(3)	+++++	+++++	16287930	+++++	+++++	16287930	0.000
(4)	+++++	+++++	32727908	+++++	+++++	32727908	0.000
(5)	+++++	+++++	22276230	+++++	+++++	22276230	0.000
36 Aroclor-1260 (1)	34364060	29894660	33553150	25859249	24717026	29677629	14.708
(2)	35601280	31173840	35387418	27591597	26010228	31152873	14.070
(3)	35372940	30842655	35520888	27822101	27011500	31314017	12.883
(4)	52894370	46212460	55261612	44183816	43285770	48367606	11.133
(5)	26864130	23917295	26950828	21965576	21244882	24188542	11.029
\$ 1 Tetrachloro-m-xylene	837495600	795855200	946492800	747368300	720380800	809518540	10.969
\$ 34 Decachlorobiphenyl	288816400	276129900	321935040	256999280	246288510	278033826	10.635

STL-PITTSBURGH

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i
Lab File ID: h-a40093.d
Analysis Type:
Lab Sample ID: M1660
Quant Type: ESTD

Injection Date: 04-JUL-2000 15:22
Init. Calibration Date(s): 07/03/0 07/03/0
Init. Calibration Times: 14:39 17:17
Method File: /var/chem/gc8.i/4030.b/PCBA.m

COMPOUND	RRF	RFO	MIN	RRF	%D	MAX
-----	-----	-----	-----	-----	-----	-----
20 Aroclor-1016(1)	12930092 100	13033356.000	0.010	-0.8	15.0	
(2)	24062302.200	24677348.000	0.010	-2.6	15.0	
(3)	39599435.400	41129576.000	0.010	-3.9	15.0	
(4)	17853261.300	18336842.000	0.010	-2.7	15.0	
(5)	24100205.300	24689660.000	0.010	-2.4	15.0	
\$ 1 Tetrachloro-m-xylene	809518540.000	832975840.000	0.000	-2.9	15.0	
\$ 34 Decachlorobiphenyl	278033826.000	296002640.000	0.010	-6.5	15.0	
36 Aroclor-1260(1)	29677629.100	30143360.000	0.010	-1.6	15.0	
(2)	31152872.600	31943054.000	0.010	-2.5	15.0	
(3)	31314016.700	31747910.000	0.010	-1.4	15.0	
(4)	48367605.600	49691314.000	0.010	-2.7	15.0	
(5)	24188542.300	25109104.000	0.010	-3.8	15.0	

12 H168908m
DBLWS
Data File: /var/chem/gc8.i/4030.b/h-a40114.d
Report Date: 05-Jul-2000 10:17

Page 1

STL-PITTSBURGH

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i
Lab File ID: h-a40114.d
Analysis Type:
Lab Sample ID: M1660
Quant Type: ESTD

Injection Date: 04-JUL-2000 22:12
Init. Calibration Date(s): 07/03/0 07/03/0
Init. Calibration Times: 14:39 17:17
Method File: /var/chem/gc8.i/4030.b/PCBA.m

COMPOUND	RRF	RPO	MIN	MAX
20 Aroclor-1016(1)	12930092.100	12915450.000	0.010	0.1 15.0
(2)	24062302.200	24326192.000	0.010	-1.1 15.0
(3)	39599435.400	40860392.000	0.010	-3.2 15.0
(4)	17853261.300	18311568.000	0.010	-2.6 15.0
(5)	24100205.300	24540882.000	0.010	-1.8 15.0
\$ 1 Tetrachloro-m-xylene	809518540.000	822356360.000	0.000	-1.6 15.0
\$ 34 Decachlorobiphenyl	278033826.000	299332480.000	0.010	-7.7 15.0
36 Aroclor-1260(1)	29677629.100	29988790.000	0.010	-1.0 15.0
(2)	31152872.600	31659902.000	0.010	-1.6 15.0
(3)	31314016.700	32492622.000	0.010	-3.8 15.0
(4)	48367605.600	49932792.000	0.010	-3.2 15.0
(5)	24188542.300	25395558.000	0.010	-5.0 15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

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Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0F300207

GC Column: DB608

ID: 0.53 (mm) Init. Calib. Date(s): 07/03/00 07/03/00

Instrument ID: GC8

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
TCX: 1.73			DCB: 10.83		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	M2154	07/03/00	1439	1.73	10.82
02	M1232	07/03/00	1459		
03	M1242	07/03/00	1519		
04	M1248	07/03/00	1539		
05	L1660	07/03/00	1558	1.73	10.83
06	ML1660	07/03/00	1618	1.73	10.83
07	M1660	07/03/00	1638	1.73	10.83
08	MH1660	07/03/00	1658	1.73	10.83
09	H1660	07/03/00	1717	1.73	10.83
10	2ND2154	07/03/00	1737	1.73	
11	2ND1232	07/03/00	1756		
12	2ND1242	07/03/00	1816		
13	2ND1248	07/03/00	1835		
14	2ND1660	07/03/00	1855		
15	M1660	07/04/00	1522	1.73	10.84
16	DF/SI/0181/I DFKQ3103	07/04/00	2034	1.73	10.83
17	PBLK DFN8M101	07/04/00	2113	1.73	10.83
18	LCS DFN8M102	07/04/00	2133	1.73	10.83
19	LCSD DFN8M103	07/04/00	2152	1.73	10.83
20	M1660	07/04/00	2212	1.73	10.83
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

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

Data File: /var/chem/gc8.i/4030.b/h-a40017.d
Report Date: 05-Jul-2000 10:08

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40017.d
Lab Smp Id: M2154
Inj Date : 03-JUL-2000 14:39
Operator : 010139
Smp Info : M2154,4030.b
Misc Info : 190-83-2
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:08 eppinged
Cal Date : 03-JUL-2000 14:39
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40017.d
Calibration Sample, Level: 3
Compound Sublist: 2-2154.sub
Sample Matrix: None

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ng)		(ng)	TARGET RANGE		RATIO
--	-----	-----	-----	-----	-----	-----	-----	-----
8 Aroclor-1221			CAS #: 11104-28-2					
2.052	2.052	0.000	3770556	0.50000	0.50000	0.00-	0.00	0.00
2.190	2.190	0.000	2379756	0.50000	0.50000	116.57-	156.57	0.00
2.255	2.255	0.000	7359536	0.50000	0.50000	66.04-	106.04	0.00
Average of Peak Amounts =					0.5			

\$ 1 Tetrachloro-m-xylene			CAS #: 877-09-8					
1.731	1.733	-0.002	17693944	0.02500	0.025000	0.00-	0.00	0.00

\$ 34 Decachlorobiphenyl			CAS #: 2051-24-3					
10.824	10.828	-0.004	6269808	0.02500	0.025000	0.00-	0.00	0.00

33 Aroclor-1254			CAS #: 11097-69-1					
4.480	4.480	0.000	8810007	0.50000	0.50000	0.00-	0.00	0.00(M)
4.553	4.553	0.000	10756813	0.50000	0.50000	92.23-	132.23	0.00
5.193	5.193	0.000	8143965	0.50000	0.50000	77.40-	117.40	0.00
5.363	5.363	0.000	16363954	0.50000	0.50000	51.09-	91.09	0.00
5.536	5.536	0.000	11138115	0.50000	0.50000	65.01-	105.01	0.00
Average of Peak Amounts =					0.5			

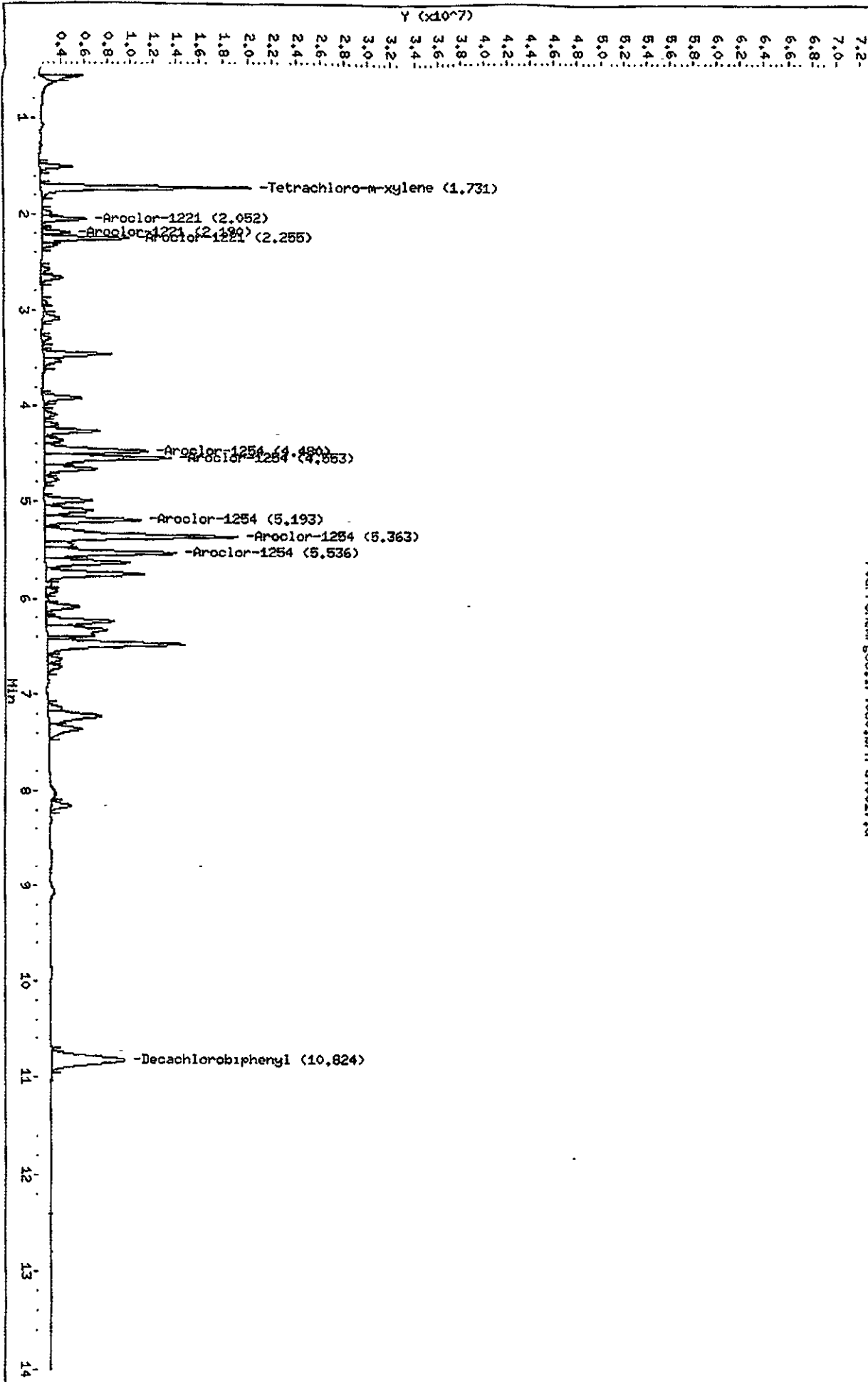
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gc8.1/4030.b/h-a40017.d
Date: 03-JUL-2000 14:39
Client ID:
Sample Info: H2154,4030.b
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

/var/chem/gc8.1/4030.b/h-a40017.d



Data File: /var/chem/gc8.i/4030.b/h-a40018.d
 Report Date: 05-Jul-2000 10:08

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40018.d
 Lab Smp Id: M1232
 Inj Date : 03-JUL-2000 14:59
 Operator : 010139
 Smp Info : M1232,4030.b
 Misc Info : 190-83-2
 Comment :
 Method : /var/chem/gc8.i/4030.b/PCBA.m
 Meth Date : 05-Jul-2000 10:08 eppinged
 Cal Date : 03-JUL-2000 14:59
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

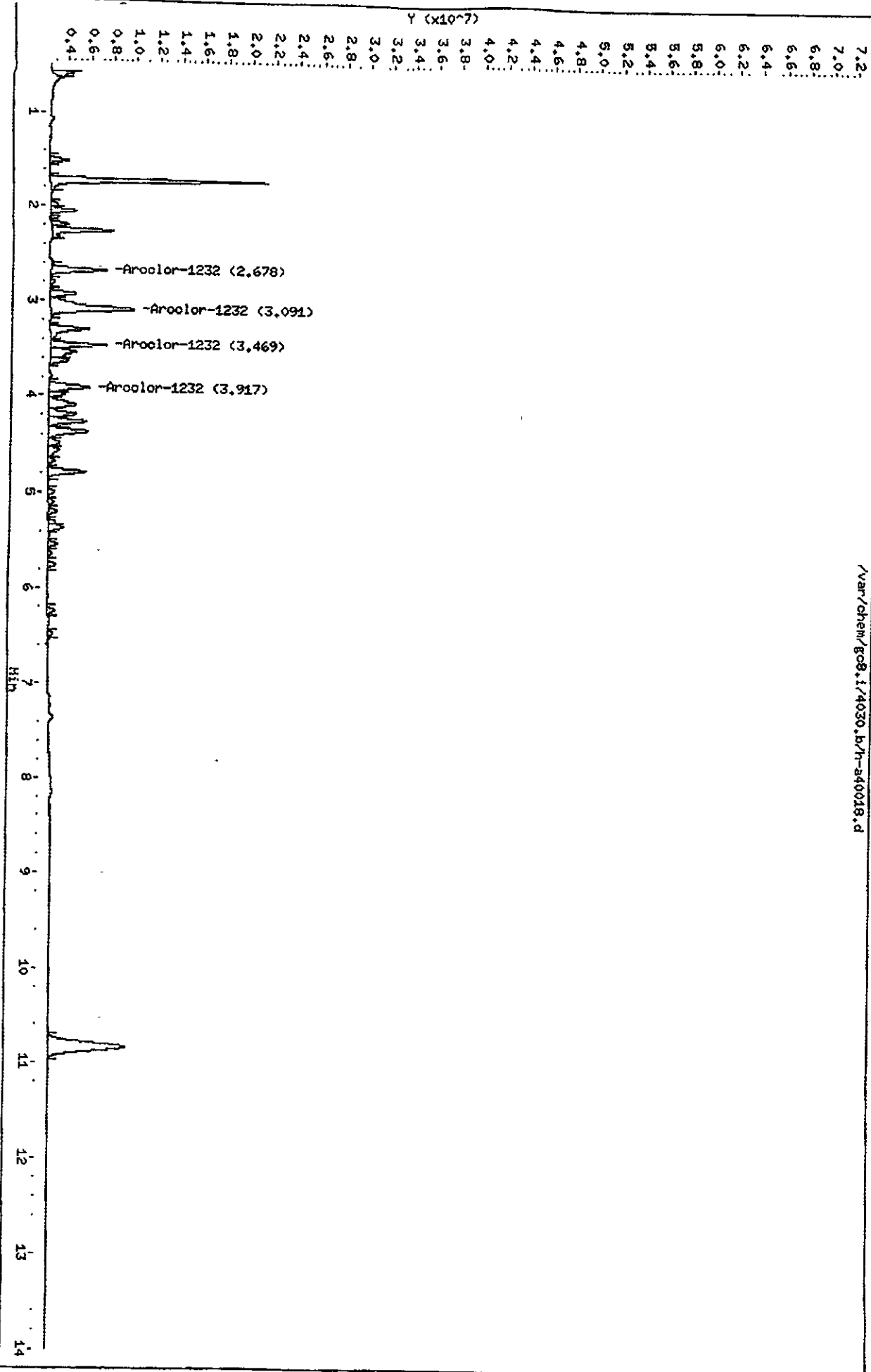
Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: h-a40018.d
 Calibration Sample, Level: 3
 Compound Sublist: 3-1232.sub
 Sample Matrix: None

AMOUNTS						
		CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	TARGET RANGE
ng)						
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	TARGET RANGE
ng)						
14	Aroclor-1232		CAS #	11141-16-5		
2.678	2.678	0.000	4704425	0.50000	0.50000	0.00- 0.00
3.091	3.091	0.000	7199217	0.50000	0.50000	146.26- 186.26
3.469	3.469	0.000	4733766	0.50000	0.50000	65.99- 105.99
3.917	3.917	0.000	3475078	0.50000	0.50000	74.18- 114.18
Average of Peak Amounts =				0.5		

Data File: /var/chem/gc8.1/4030.b/h-a40018.d
Date : 03-JUL-2000 14:59
Client ID:
Sample Info: H4232,4030.b

Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40019.d
Lab Smp Id: M1242
Inj Date : 03-JUL-2000 15:19
Operator : 010139
Smp Info : M1242,4030.b
Misc Info : 190-83-3
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:08 eppinged
Cal Date : 03-JUL-2000 15:19
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

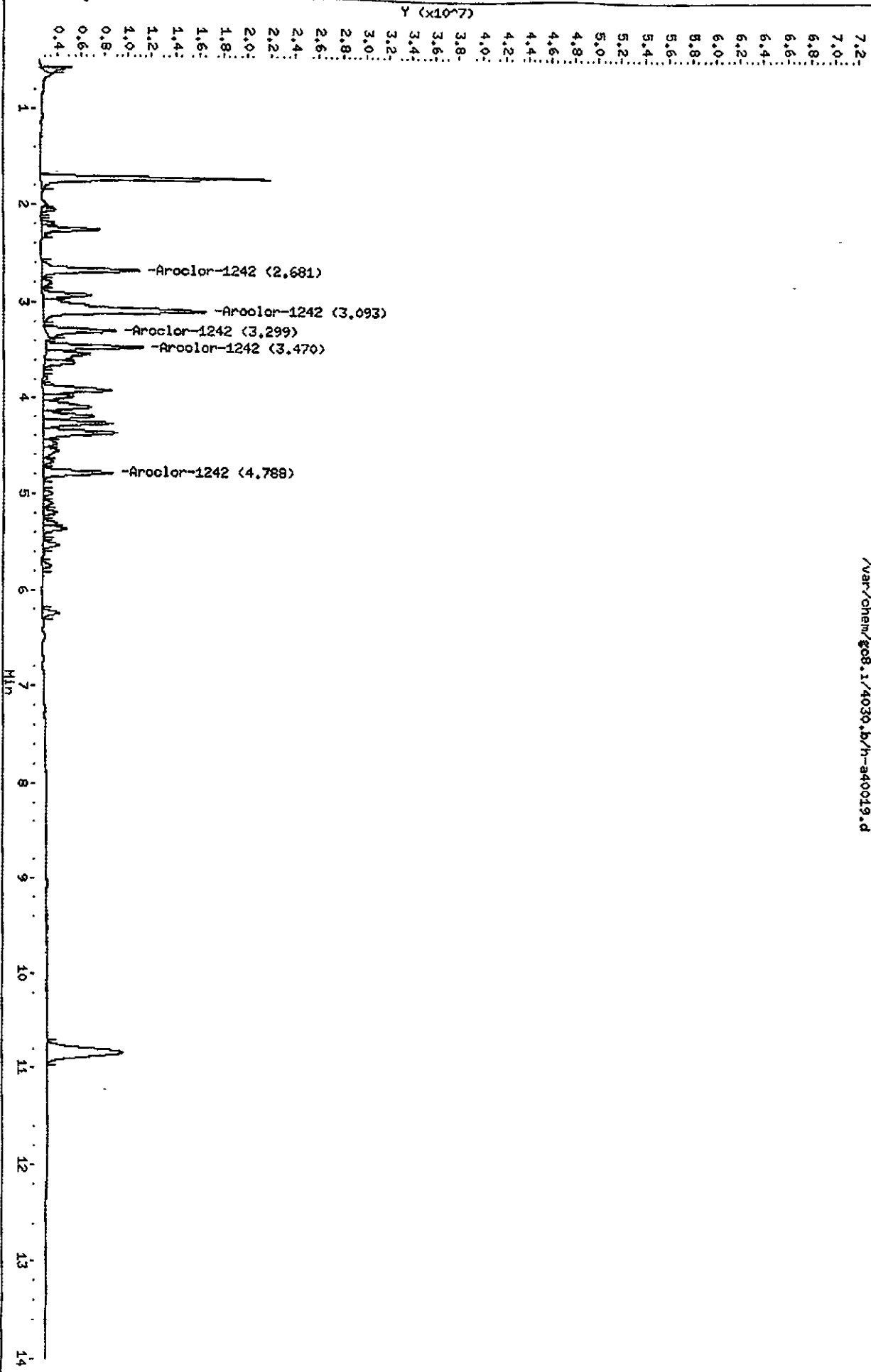
Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40019.d
Calibration Sample, Level: 3
Compound Sublist: 4-1242.sub
Sample Matrix: None

			AMOUNTS					
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	TARGET RANGE	RATIO	
..								
15 Aroclor-1242			CAS #. 53469-21-9					
2.681	2.681	0.000	8329473	0.50000	0.50000	0.00- 0.00	0.00	
3.093	3.093	0.000	13702575	0.50000	0.50000	310.13- 350.13	0.00	
3.299	3.299	0.000	5915226	0.50000	0.50000	749.70- 789.70	0.00	
3.470	3.470	0.000	8332432	0.50000	0.50000	512.48- 552.48	0.00	
4.788	4.788	0.000	5966237	0.50000	0.50000	314.30- 354.30	0.00	
Average of Peak Amounts =					0.5			

Data File: /var/chem/gc8.i/4030.b/h-a40019.d
Date: 03-JUL-2000 15:19
Client ID:
Sample Info: M1242,4030.b
Column phase: DB608

Instrument: gc8.i
Operator: 040139
Column diameter: 0.53

/var/chem/gc8.i/4030.b/h-a40019.d



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STL-PITTSBURGH

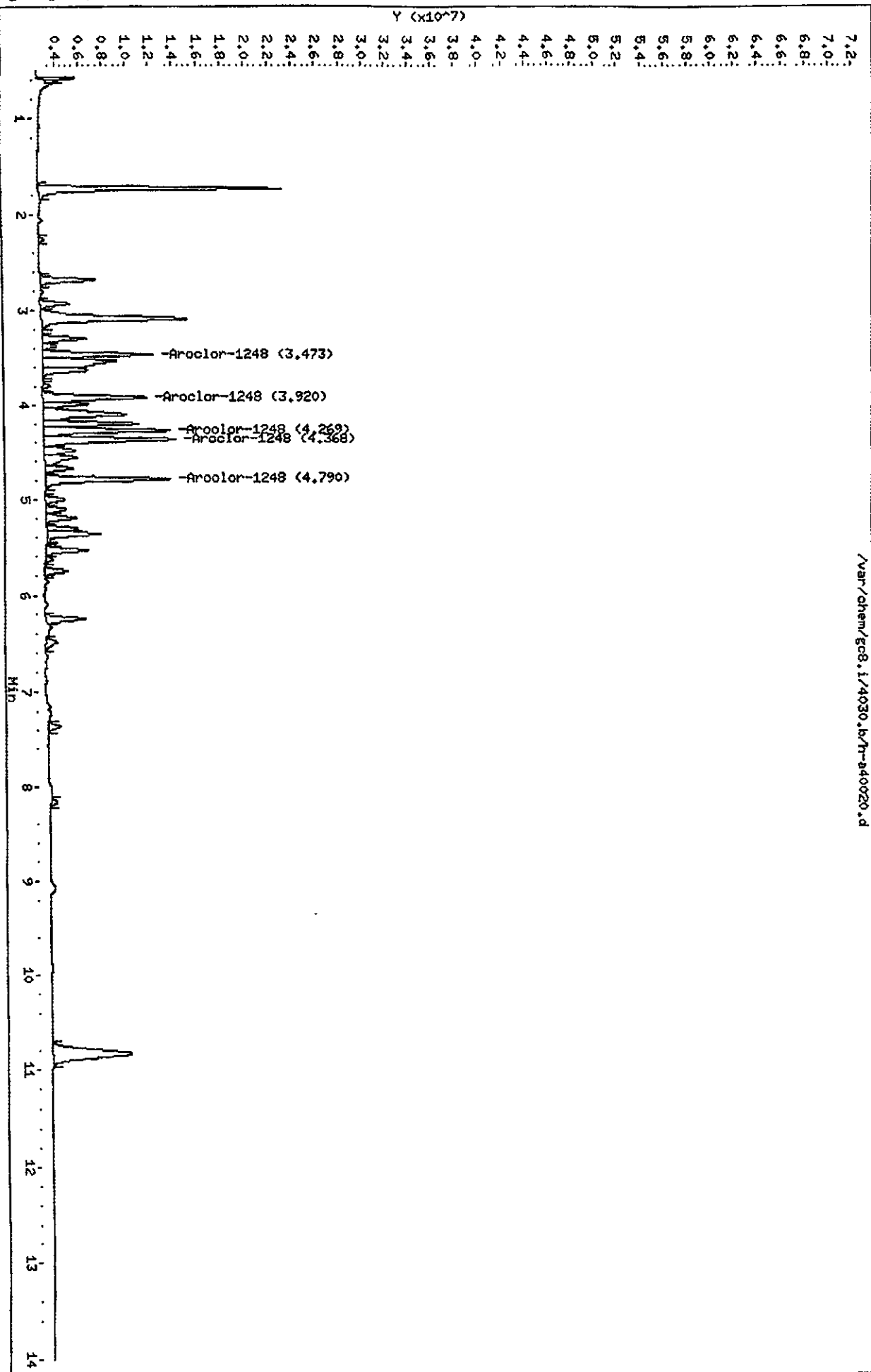
Data file : /var/chem/gc8.i/4030.b/h-a40020.d
Lab Smp Id: M1248
Inj Date : 03-JUL-2000 15:39
Operator : 010139
Smp Info : M1248,4030.b
Misc Info : 190-83-4
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:08 eppinged
Cal Date : 03-JUL-2000 15:39
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40020.d
Calibration Sample, Level: 3
Compound Sublist: 5-1248.sub
Sample Matrix: None

AMOUNTS									
			CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (ng)		(ng)		TARGET RANGE	RATIO	
..									
21 Aroclor-1248					CAS # 12672-29-6				
3.473	3.473	0.000	9482719	0.50000	0.50000	0.00-	0.00	0.00	
3.920	3.920	0.000	8921485	0.50000	0.50000	114.57-	154.57	0.00	
4.269	4.269	0.000	10848464	0.50000	0.50000	63.67-	103.67	0.00	
4.368	4.368	0.000	11308031	0.50000	0.50000	43.86-	83.86	0.00	
4.790	4.790	0.000	10729474	0.50000	0.50000	128.08-	168.08	0.00	
Average of Peak Amounts =					0.5				

Data File: /var/chem/gc8.i/4030.b/r-a40020.d
Date: 03-JUL-2000 15:39
Client ID:
Sample Info: H1248,4030.b
Column phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53



Data File: /var/chem/gc8.i/4030.b/h-a40021.d
Report Date: 05-Jul-2000 10:08

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40021.d
Lab Smp Id: L1660
Inj Date : 03-JUL-2000 15:58
Operator : 010139
Smp Info : L1660,4030.b
Misc Info : 190-83-5
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:08 eppinged
Cal Date : 03-JUL-2000 15:58
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40021.d
Calibration Sample, Level: 1
Compound Sublist: 1-1660.sub
Sample Matrix: None

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016			CAS #. 12674-11-2					
2.258	2.257	0.001	1443581	0.10000	0.10000	0.00-	0.00	0.00(M)
2.681	2.681	0.000	2706483	0.10000	0.10000	80.00-	120.00	0.00
3.094	3.092	0.002	4239803	0.10000	0.10000	416.04-	456.04	0.00
3.300	3.301	-0.001	1994864	0.10000	0.10000	203.51-	243.51	0.00
3.471	3.471	0.000	2734352	0.10000	0.10000	297.56-	337.56	0.00
Average of Peak Amounts =			0.1					

\$ 1 Tetrachloro-m-xylene			CAS # 877-09-8					
1.733	1.733	0.000	4187478	0.00500	0.0054198	0.00-	0.00	0.00

\$ 34 Decachlorobiphenyl			CAS #: 2051-24-3					
10.832	10.828	0.004	1444082	0.00500	0.0053523	0.00-	0.00	0.00

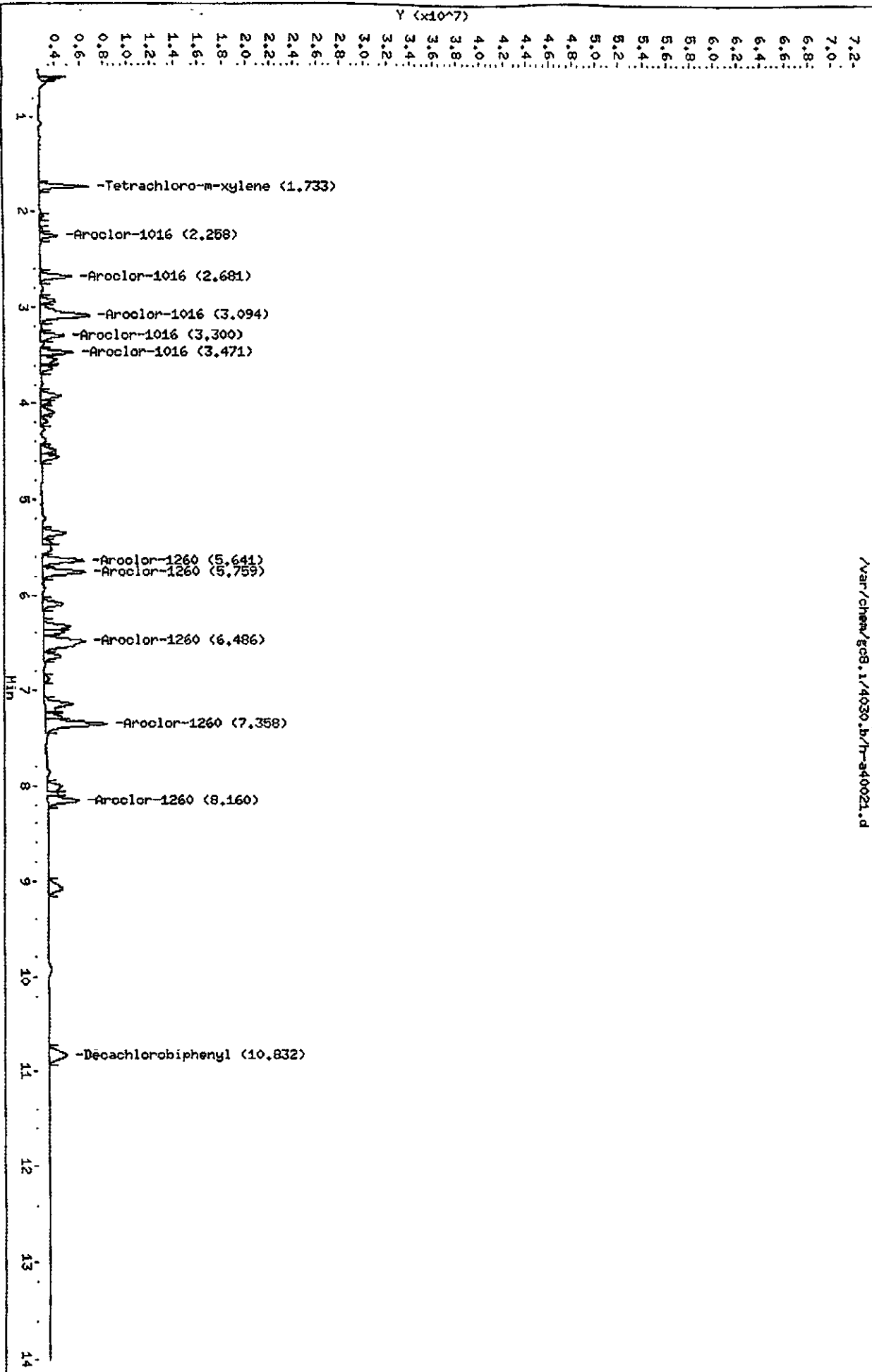
36 Aroclor-1260			CAS # 11096-82-5					
5.641	5.639	0.002	3436406	0.10000	0.10000	0.00-	0.00	0.00(M)
5.759	5.760	-0.001	3560128	0.10000	0.10000	95.86-	135.86	0.00
6.486	6.485	0.001	3537294	0.10000	0.10000	116.91-	156.91	0.00
7.358	7.360	-0.002	5289437	0.10000	0.10000	120.00-	160.00	0.00
8.160	8.158	0.002	2686413	0.10000	0.10000	108.33-	148.33	0.00
Average of Peak Amounts =			0.1					

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/eg8.1/4030.b/h-a40021.d
Date: 03-JUL-2000 15:58
Client ID:
Sample Info: L1660,4030.b
Column phase: DB608

Instrument: eg8.1
Operator: 010139
Column diameter: 0.53



Data File: /var/chem/gc8.i/4030.b/h-a40022.d
Report Date: 05-Jul-2000 10:08

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40022.d

Lab Smp Id: ML1660

Inj Date : 03-JUL-2000 16:18

Operator : 010139

Inst ID: gc8.i

Smp Info : ML1660,4030.b

Misc Info : 190-83-6

Comment :

Method : /var/chem/gc8.i/4030.b/PCBA.m

Meth Date : 05-Jul-2000 10:08 eppinged

Quant Type: ESTD

Cal Date : 03-JUL-2000 16:18

Cal File: h-a40022.d

Als bottle: 6

Calibration Sample, Level: 2

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1-1660.sub

Target Version: 3.40

Sample Matrix: None

AMOUNTS									
			CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (ng)		(ng)	TARGET RANGE		RATIO	
..									
20 Aroclor-1016					CAS # 12674-11-2				
2.258	2.257	0.001	2856822	0.20000	0.19894	0.00-	0.00	0.00 (M)	
2.680	2.681	-0.001	5169085	0.20000	0.19539	80.00-	120.00	0.00	
3.092	3.092	0.000	8326013	0.20000	0.19817	416.04-	456.04	0.00	
3.300	3.301	-0.001	3852067	0.20000	0.19649	203.51-	243.51	0.00	
3.469	3.471	-0.002	5226502	0.20000	0.19547	297.56-	337.56	0.00	
Average of Peak Amounts =					0.19689				

\$ 1 Tetrachloro-m-xylene					CAS # 877-09-8				
1.732	1.733	-0.001	7958552	0.01000	0.010198	0.00-	0.00	0.00 (M)	

\$ 34 Decachlorobiphenyl					CAS # 2051-24-3				
10.832	10.828	0.004	2761299	0.01000	0.010155	0.00-	0.00	0.00	

36 Aroclor-1260					CAS #: 11096-82-5				
5.639	5.639	0.000	5978932	0.20000	0.18609	0.00-	0.00	0.00 (M)	
5.761	5.760	0.001	6234768	0.20000	0.18674	95.86-	135.86	0.00	
6.485	6.485	0.000	6168531	0.20000	0.18632	116.91-	156.91	0.00	
7.360	7.360	0.000	9242492	0.20000	0.18652	120.00-	160.00	0.00	
8.160	8.158	0.002	4783459	0.20000	0.18839	108.33-	148.33	0.00	
Average of Peak Amounts =					0.18681				

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QC Flag Legend

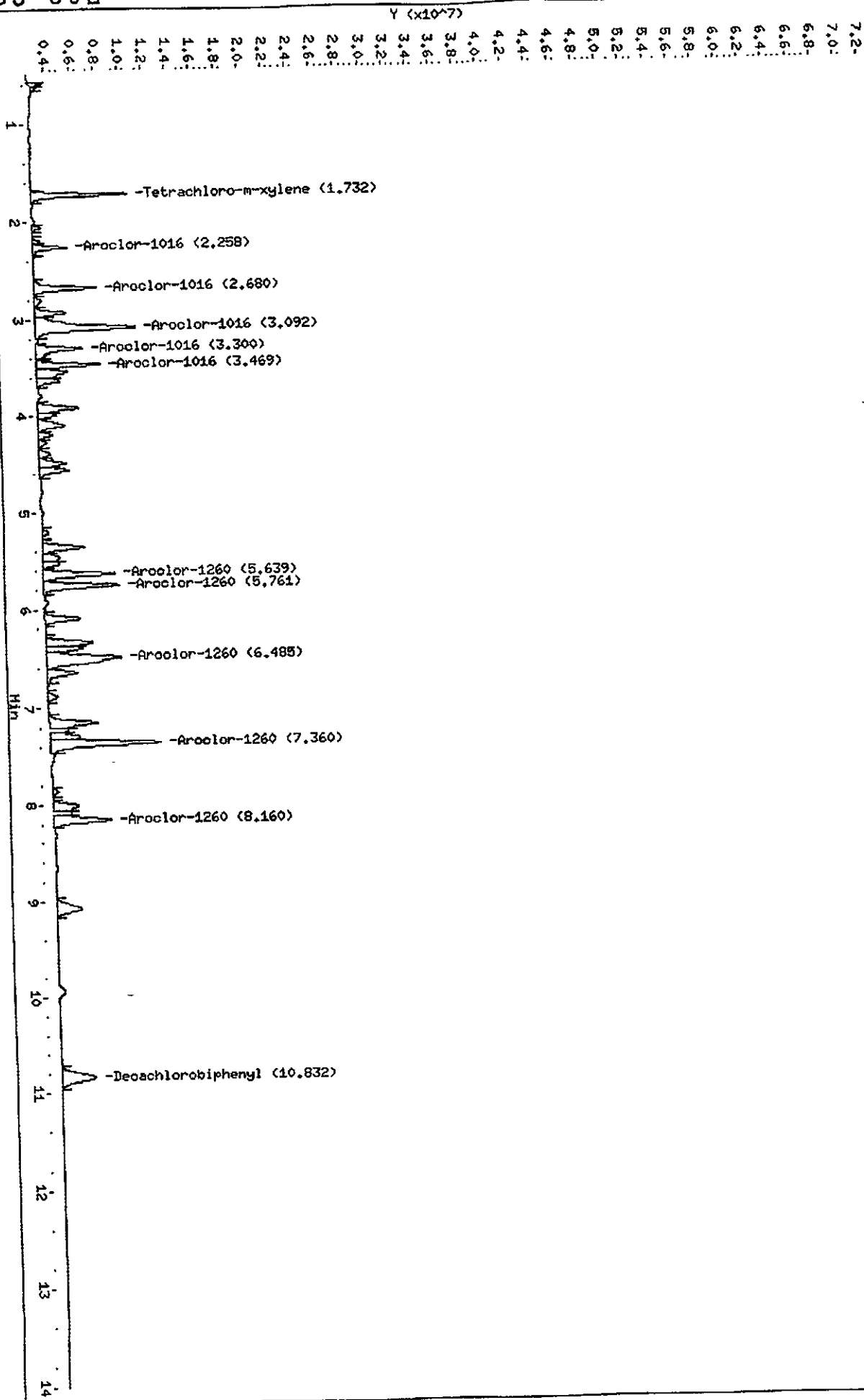
M - Compound response manually integrated.

Data File: /var/chem/gc8.1/4030.b/h-a40022.d
Date: 03-JUL-2000 16:18
Client ID:
Sample Info: HL1660,4030.b

Column phase: DB608

Instrument: gc8.i
Operator: 0210139
Column diameter: 0.53

/var/chem/gc8.1/4030.b/h-a40022.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40023.d
Lab Smp Id: M1660
Inj Date : 03-JUL-2000 16:38
Operator : 010139
Smp Info : M1660,4030.b
Misc Info : 190-83-7
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:08 eppinged
Cal Date : 03-JUL-2000 16:38
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40023.d
Calibration Sample, Level: 3
Compound Sublist: 1-1660.sub
Sample Matrix: None

AMOUNTS									
			CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (ng)		(ng)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016					CAS #: 12674-11-2				
2.257	2.257	0.000	7307381	0.50000	0.50588	0.00-	0.00	0.00(M)	
2.681	2.681	0.000	13638364	0.50000	0.51025	80.00-	120.00	0.00	
3.092	3.092	0.000	22652338	0.50000	0.52544	416.04-	456.04	0.00	
3.301	3.301	0.000	10208789	0.50000	0.51364	203.51-	243.51	0.00	
3.471	3.471	0.000	13626333	0.50000	0.50638	297.56-	337.56	0.00	
Average of Peak Amounts =					0.51232				

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8				
1.733	1.733	0.000	23662320	0.02500	0.027516	0.00-	0.00	0.00	

\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3				
10.828	10.828	0.000	8048376	0.02500	0.027225	0.00-	0.00	0.00	

36 Aroclor-1260					CAS #: 11096-82-5				
5.639	5.639	0.000	16776575	0.50000	0.51456	0.00-	0.00	0.00(M)	
5.760	5.760	0.000	17693709	0.50000	0.51958	95.86-	135.86	0.00	
6.485	6.485	0.000	17760444	0.50000	0.52372	116.91-	156.91	0.00	
7.360	7.360	0.000	27630806	0.50000	0.53698	120.00-	160.00	0.00	
8.158	8.158	0.000	13475414	0.50000	0.52007	108.33-	148.33	0.00	
Average of Peak Amounts =					0.52298				

QC Flag Legend

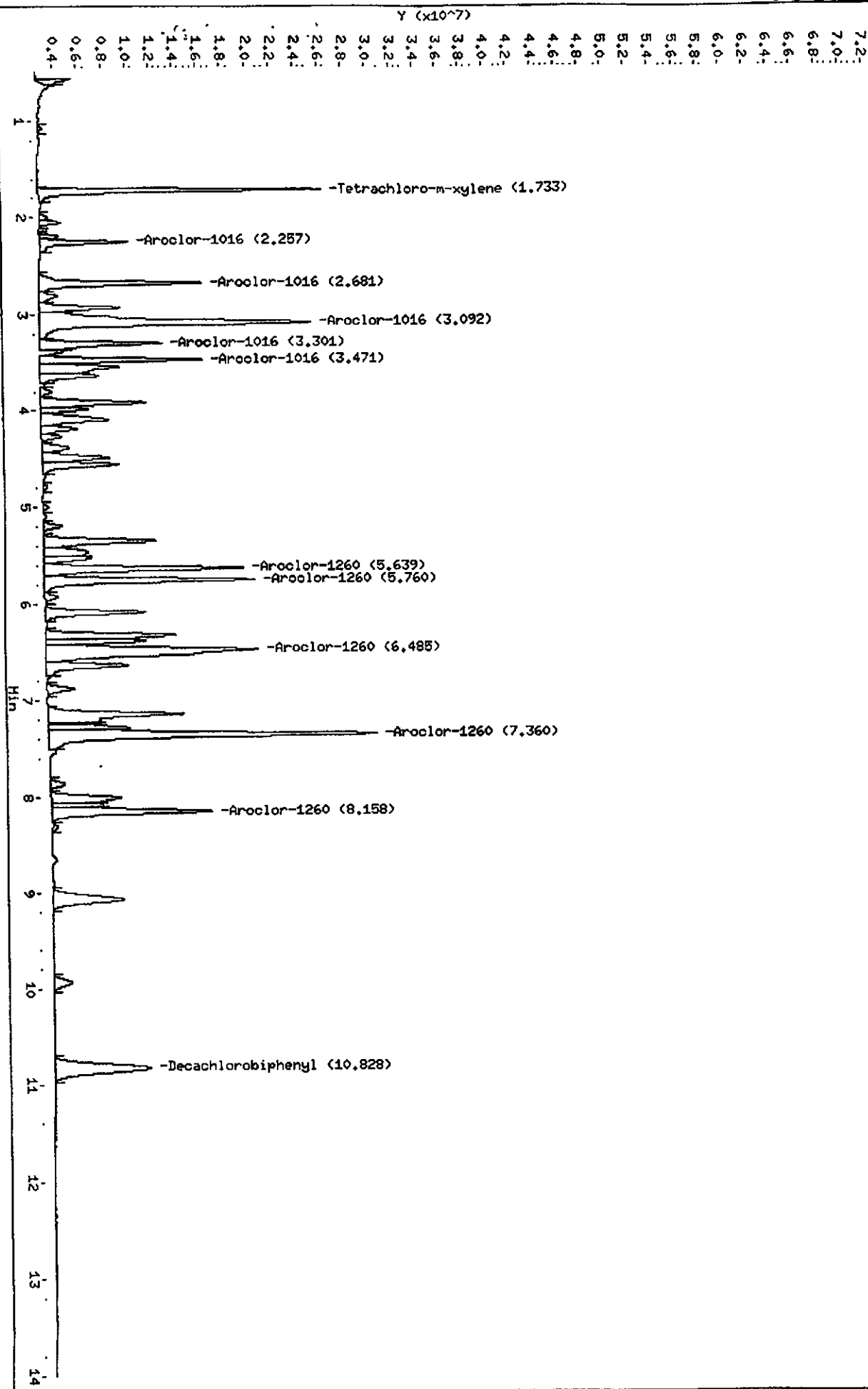
M - Compound response manually integrated.

Data File: /var/chem/ec8.i/4030.b/h-a40023.d
Date: 03-JUL-2000 16:38
Client ID:
Sample Info: H1660,4030.b

Column phase: DB608

Instrument: ec8.i
Operator: 010139
Column diameter: 0.53

/var/chem/ec8.i/4030.b/h-a40023.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40024.d
Lab Smp Id: MH1660
Inj Date : 03-JUL-2000 16:58
Operator : 010139
Smp Info : MH1660,4030.b
Misc Info : 190-83-8
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:08 eppinged
Cal Date : 03-JUL-2000 16:58
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40024.d
Calibration Sample, Level: 4
Compound Sublist: 1-1660.sub
Sample Matrix: None

AMOUNTS								
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO		
			RESPONSE (ng)	(ng)				
20	Aroclor-1016			CAS # 12674-11-2				
2.258	2.257	0.001	11157565 1 00000	0.81902	0.00- 0.00	0.00		
2.680	2.681	-0.001	20772699 1 00000	0.82301	80.00- 120.00	0.00		
3.092	3.092	0.000	35006181 1.00000	0.85205	416.04- 456.04	0.00		
3.300	3.301	-0.001	15243662 1.00000	0.81440	203.51- 243.51	0.00		
3.470	3.471	-0.001	21124992 1 00000	0.82962	297.56- 337.56	0.00		
Average of Peak Amounts =				0.82762				

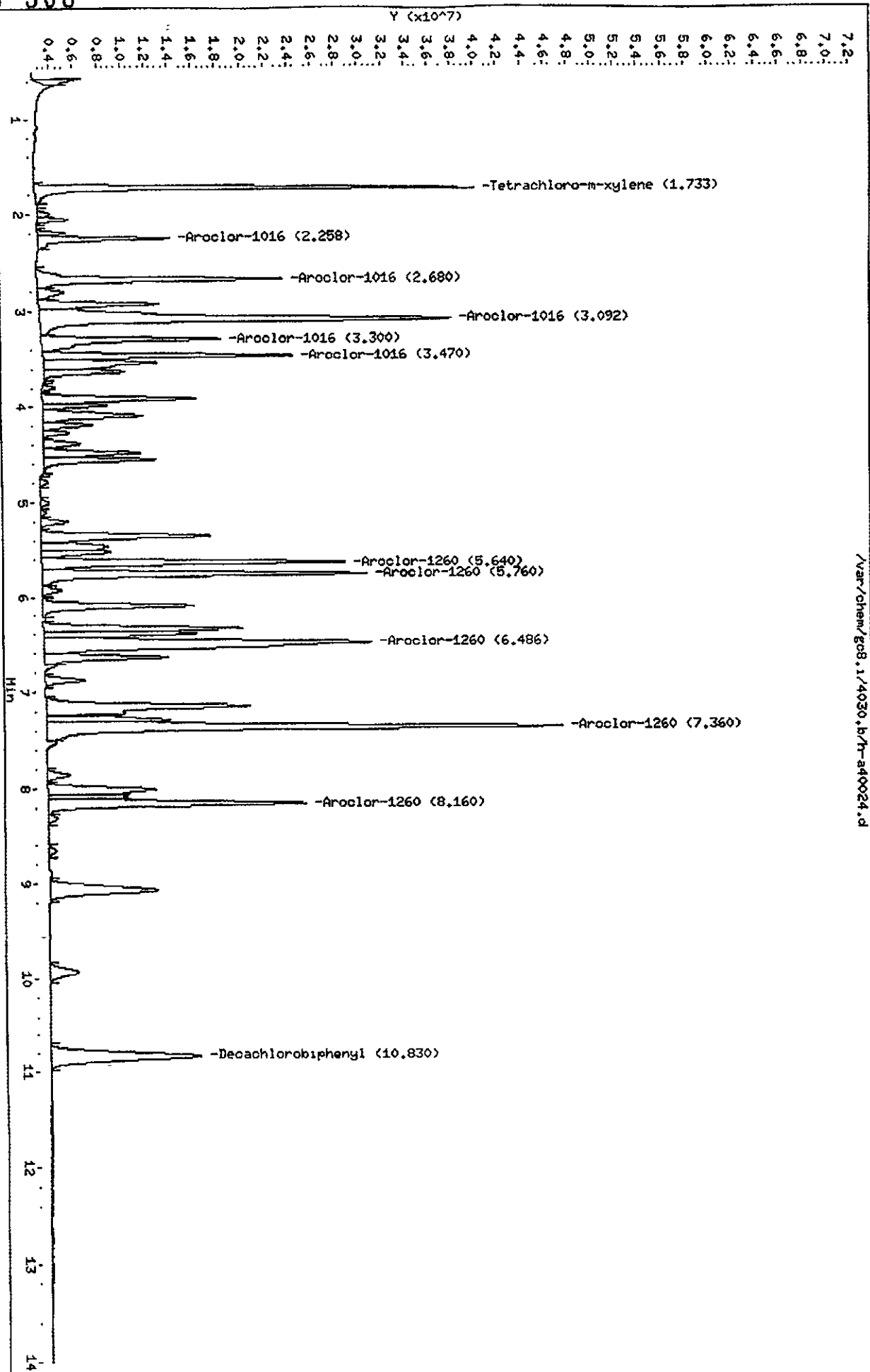
\$ 1	Tetrachloro-m-xylene			CAS #: 877-09-8				
1.733	1.733	0.000	37368415 0 05000	0.044924	0.00- 0.00	0.00		

\$ 34	Decachlorobiphenyl			CAS #: 2051-24-3				
10.810	10.828	0.002	12849964 0 05000	0.044935	0.00- 0.00	0.00		

36	Aroclor-1260			CAS #: 11096-82-5				
5.640	5.639	0.001	25859249 1 00000	0.83639	0.00- 0.00	0.00 (M)		
5.760	5.760	0.000	27591597 1.00000	0.85058	95.86- 135.86	0.00		
6.486	6.485	0.001	27822101 1.00000	0.85898	116.91- 156.91	0.00		
7.360	7.360	0.000	44183816 1 00000	0.89012	120.00- 160.00	0.00		
8.160	8.158	0.002	21965576 1 00000	0.88129	108.33- 148.33	0.00		
Average of Peak Amounts =				0.86347				

QC Flag Legend

M - Compound response manually integrated.



Date File: /var/chem/gc8.1/4030.b/h-a40024.d
Date: 03-JUL-2000 16:58
Client ID:
Sample Info: H41660,4030.b
Column Phase: DB608

Instrument: gc8.1
Operator: Q10139
Column diameter: 0.53

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40025.d
Lab Smp Id: H1660
Inj Date : 03-JUL-2000 17:17
Operator : 010139
Smp Info : H1660,4030.b
Misc Info : 190-83-9
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:08 eppinged
Cal Date : 03-JUL-2000 17:17
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40025.d
Calibration Sample, Level: 5
Compound Sublist: 1-1660.sub
Sample Matrix: None

AMOUNTS									
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT	ON-COL	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====		
20 Aroclor-1016					CAS # 12674-11-2				
2.259	2.257	0.002	20316427 2.00000	1.5712	0.00-	0.00	0.00		
2.682	2.681	0.001	38703658 2.00000	1.6085	80.00-	120.00	0.00		
3.096	3.092	0.004	67316450 2.00000	1.6999	416.04-	456.04	0.00		
3.301	3.301	0.000	28792183 2.00000	1.6127	203.51-	243.51	0.00		
3.471	3.471	0.000	37294677 2.00000	1.5475	297.56-	337.56	0.00		
Average of Peak Amounts =					1.608				

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8				
1.734	1.733	0.001	72038080 0.10000	0.088989	0.00-	0.00	0.00		

\$ 34 Decachlorobiphenyl					CAS # 2051-24-3				
10.829	10.828	0.001	24628851 0.10000	0.088582	0.00-	0.00	0.00		

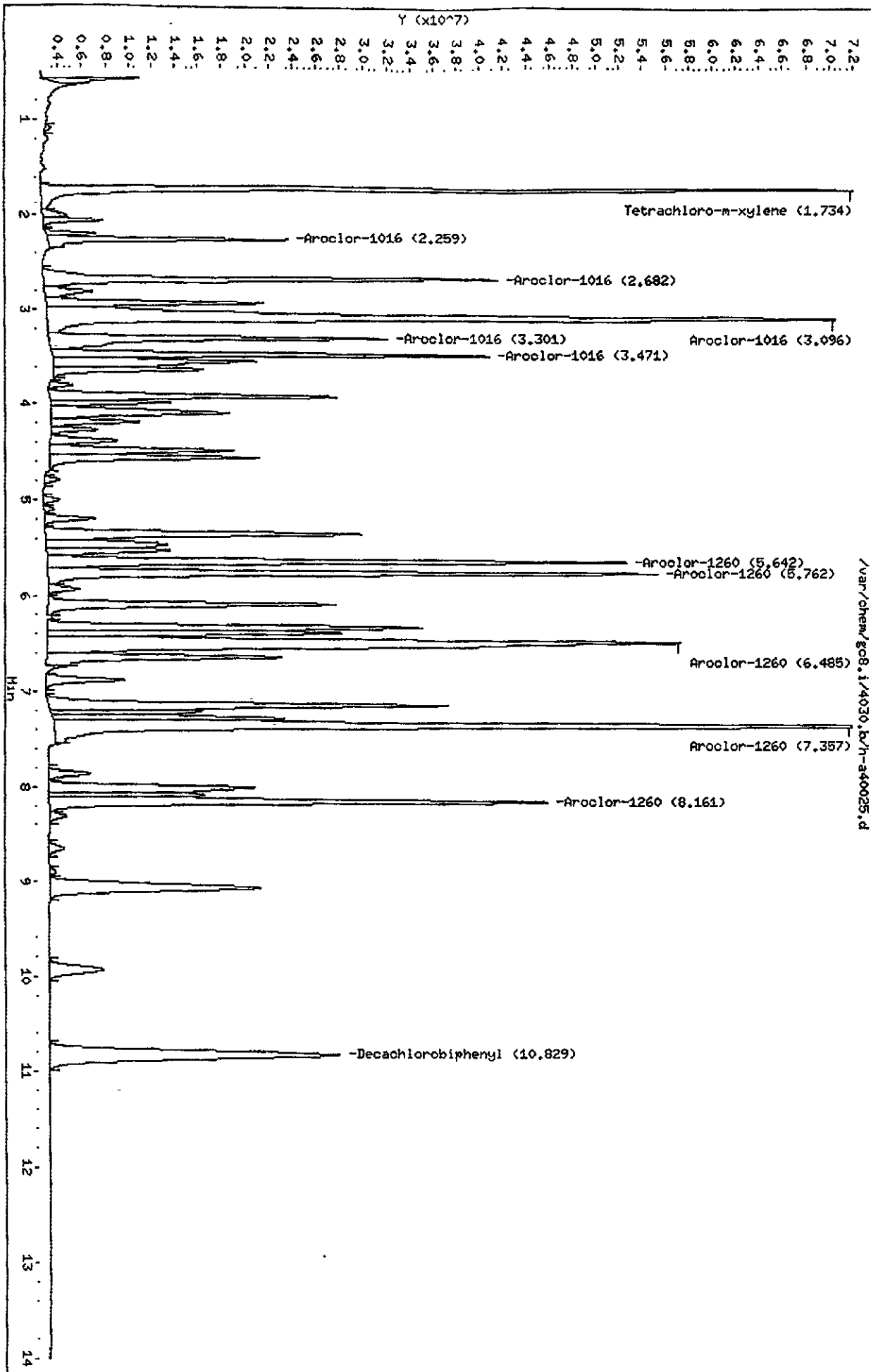
36 Aroclor-1260					CAS # 11096-82-5				
5.642	5.639	0.003	49434053 2.00000	1.6657	0.00-	0.00	0.00(M)		
5.762	5.760	0.002	52020456 2.00000	1.6698	95.86-	135.86	0.00		
6.485	6.485	0.000	54022999 2.00000	1.7252	116.91-	156.91	0.00		
7.357	7.360	-0.003	86571540 2.00000	1.7899	120.00-	160.00	0.00		
8.161	8.158	0.003	42489765 2.00000	1.7566	108.33-	148.33	0.00		
Average of Peak Amounts =					1.7214				

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gc8.1/4030.b/h-a40025.d
Date: 03-JUL-2000 17:17
Client ID:
Sample Info: H1660,4030.b
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40026.d
Lab Smp Id: 2ND2154
Inj Date : 03-JUL-2000 17:37
Operator : 010139
Smp Info : 2ND2154,4030.b
Misc Info : 190-92-1
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:17 eppinged
Cal Date : 03-JUL-2000 17:17
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40
Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40025.d
Continuing Calibration Sample
Compound Sublist: 2154.sub
Sample Matrix: None

AMOUNTS									
			CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (ng)		(ng)		TARGET RANGE		RATIO
--	-----	-----	-----	-----	-----	-----	-----	-----	-----
8 Aroclor-1221					CAS #		11104-28-2		
2.054	2.052	0.002	3713432	0.50000	0.49242	0.00-	0.00	0.00	
2.194	2.190	0.004	2410982	0.50000	0.50656	116.57-	156.57	0.00	
2.258	2.255	0.003	7406727	0.50000	0.50321	66.04-	106.04	0.00	
Average of Peak Amounts =					0.50073		0.17-D		

\$ 1 Tetrachloro-m-xylene					CAS #		877-09-8		
1.731	1.733	-0.002	892639	0.02500	0.0011027	0.00-	0.00	0.00	

\$ 34 Decachlorobiphenyl					CAS #		2051-24-3		

Compound Not Detected									

33 Aroclor-1254					CAS #		11097-69-1		
4.487	4.480	0.007	8912762	0.50000	0.50583	0.00-	0.00	0.00(M	
4.559	4.553	0.006	10848280	0.50000	0.50425	92.23-	132.23	0.00	
5.197	5.193	0.004	8188854	0.50000	0.50276	77.40-	117.40	0.00	
5.367	5.363	0.004	15988754	0.50000	0.48854	51.09-	91.09	0.00	
5.540	5.536	0.004	11518532	0.50000	0.51708	65.01-	105.01	0.00	
Average of Peak Amounts =					0.50369		0.77-D		

QC Flag Legend

M - Compound response manually integrated.

2nd
SOURCE

Data File: /var/chem/608.i/4030.b/h-a40026.d

Date: 03-JUL-2000 17:37

Client ID:

Sample Info: 2ND2154,4030.b

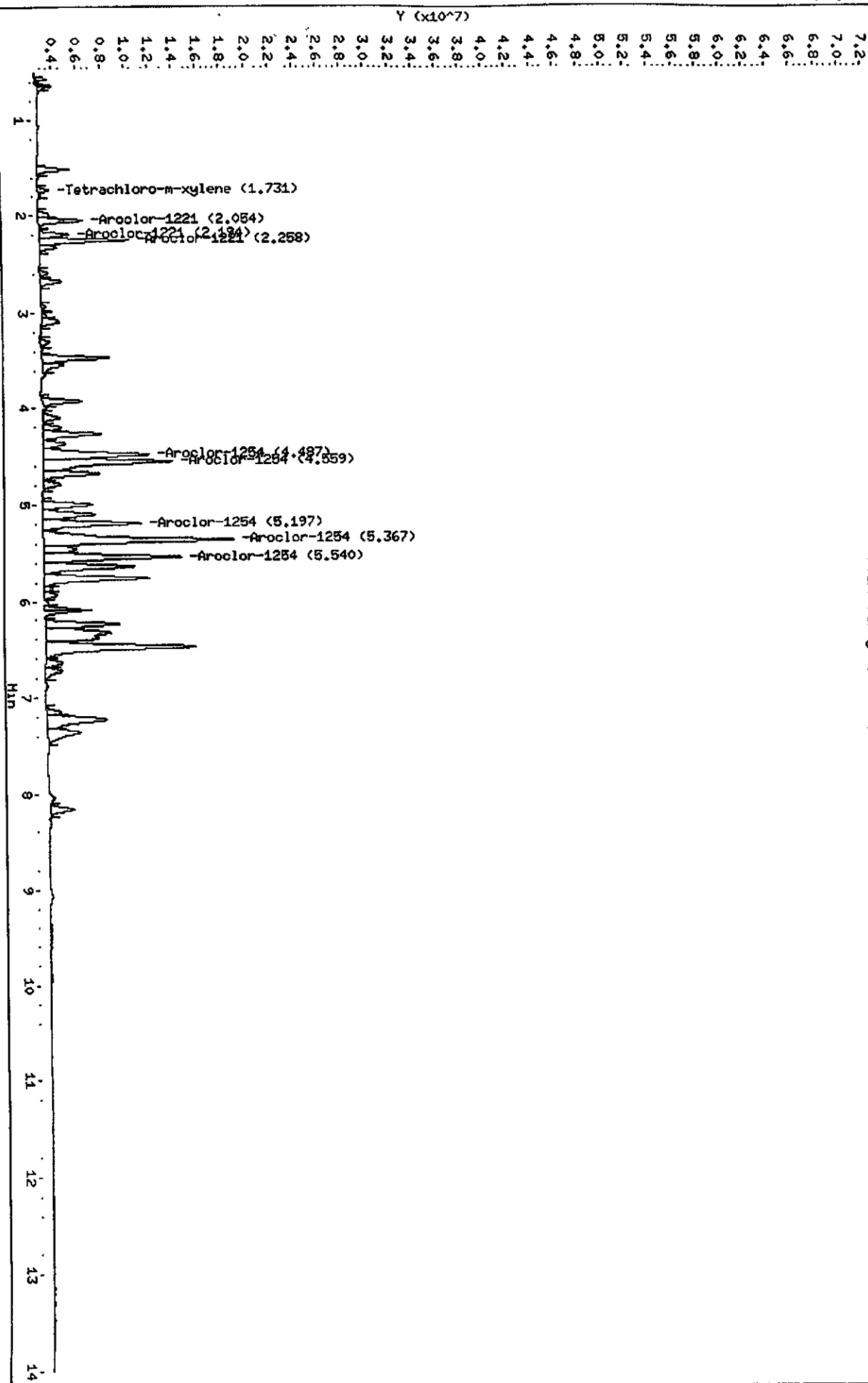
Column phase: DB608

Instrument: 608.1

Operator: 010139

Column diameter: 0.53

/var/chem/608.i/4030.b/h-a40026.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40027.d
 Lab Smp Id: 2ND1232
 Inj Date : 03-JUL-2000 17:56
 Operator : 010139 Inst ID: gc8.i
 Smp Info : 2ND1232,4030.b
 Misc Info : 190-92-2
 Comment :
 Method : /var/chem/gc8.i/4030.b/PCBA.m
 Meth Date : 05-Jul-2000 10:17 eppinged Quant Type: ESTD
 Cal Date : 03-JUL-2000 17:17 Cal File: h-a40025.d
 Als bottle: 11 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1232.sub
 Target Version: 3.40 Sample Matrix: None

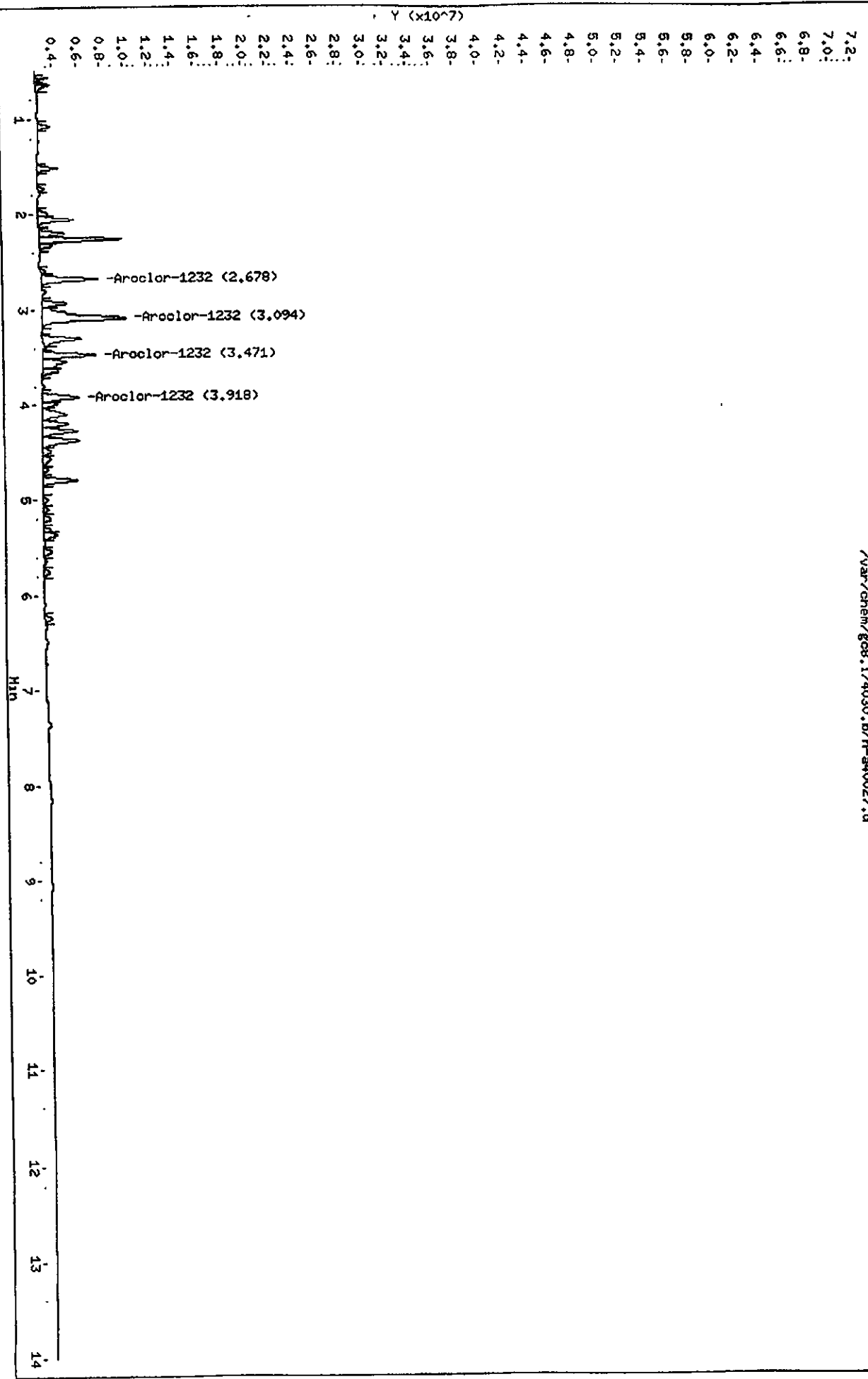
AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
14 Aroclor-1232			CAS #: 11141-16-5					
2.678	2.678	0.000	4826771	0.50000	0.51300	0.00-	0.00	0.00
3.094	3.091	0.003	7086773	0.50000	0.49219	146.26-	186.26	0.00
3.471	3.469	0.002	4475493	0.50000	0.47272	65.99-	105.99	0.00
3.918	3.917	0.001	3167854	0.50000	0.45580	74.18-	114.18	0.00
Average of Peak Amounts =			0.48343		3.37-D			

2nd
source

Data File: /var/chem/gc8.1/4030.b/h-a40027.d
Date: 03-JUL-2000 17:56
Client ID:
Sample Info: 2ND1232,4030.b
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

/var/chem/gc8.1/4030.b/h-a40027.d



Data File: /var/chem/gc8.i/4030.b/h-a40028.d
Report Date: 05-Jul-2000 10:19

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40028.d
Lab Smp Id: 2ND1242
Inj Date : 03-JUL-2000 18:16
Operator : 010139
Smp Info : 2ND1242,4030.b
Misc Info : 190-92-3
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:17 eppinged
Cal Date : 03-JUL-2000 17:17
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40025.d
Continuing Calibration Sample
Compound Sublist: 1242.sub
Sample Matrix: None

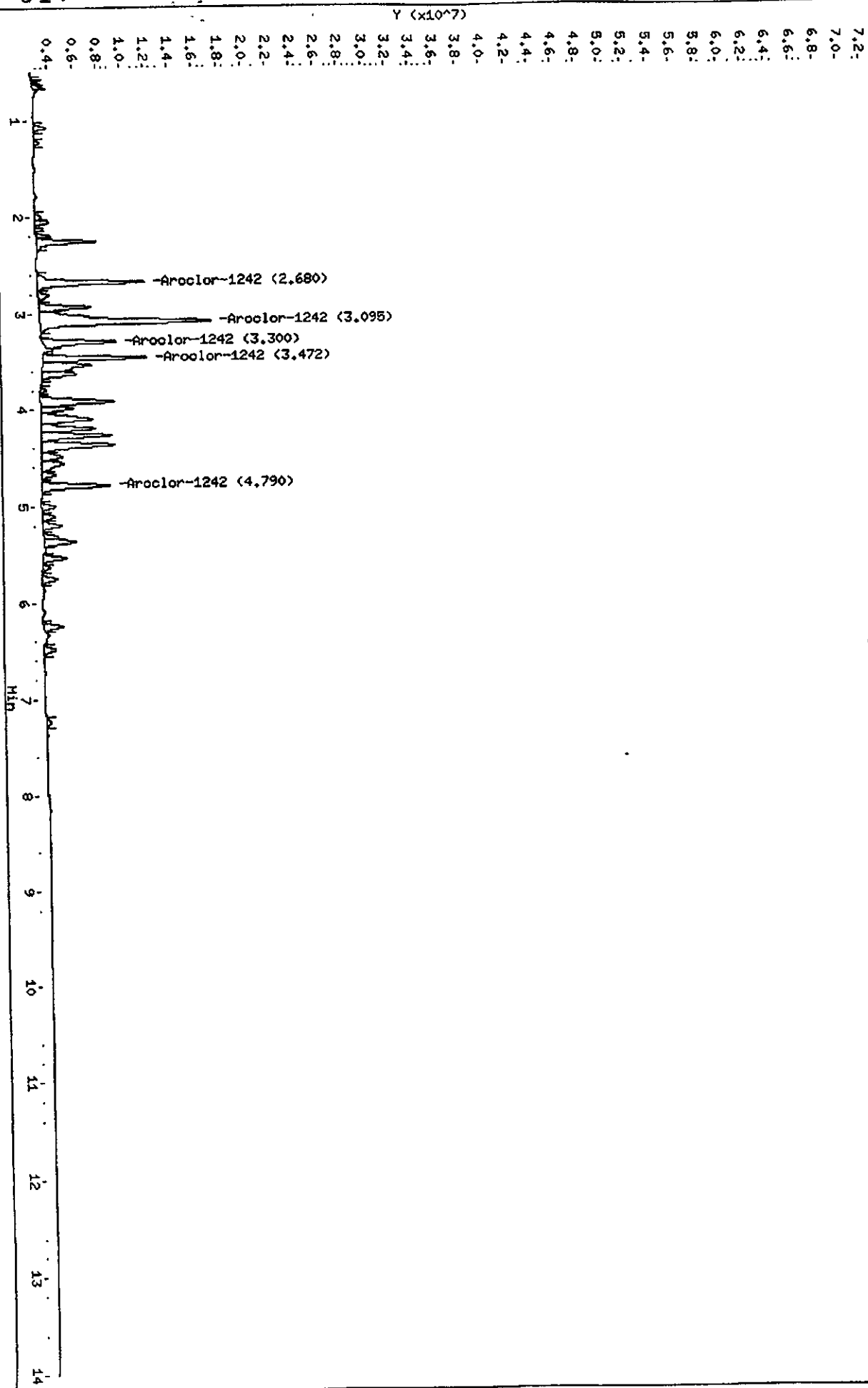
AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
..	*****	*****	*****	*****	*****	*****	*****	*****
15 Aroclor-1242			CAS #: 53469-21-9					
2.680	2.681	-0.001	8934971	0.50000	0.53635	0.00-	0.00	0.00
3.095	3.093	0.002	14314383	0.50000	0.52232	310.13-	350.13	0.00
3.300	3.299	0.001	6183410	0.50000	0.52267	749.70-	789.70	0.00
3.472	3.470	0.002	8761126	0.50000	0.52572	512.48-	552.48	0.00
4.790	4.788	0.002	5748079	0.50000	0.48172	314.30-	354.30	0.00
Average of Peak Amounts =			0.51776		367.0			

2nd
SWEE

Data File: /var/chem/gc8.1/4030.b/h-a40028.d
Date: 03-JUL-2000 18:16
Client ID:
Sample Info: 2ND1242, 4030.b
Column Phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

/var/chem/gc8.1/4030.b/h-a40028.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40029.d
Lab Smp Id: 2ND1248
Inj Date : 03-JUL-2000 18:35
Operator : 010139
Smp Info : 2ND1248,4030.b
Misc Info : 190-92-4
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:17 eppinged
Cal Date : 03-JUL-2000 17:17
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40025.d
Continuing Calibration Sample
Compound Sublist: 1248.sub
Sample Matrix: None

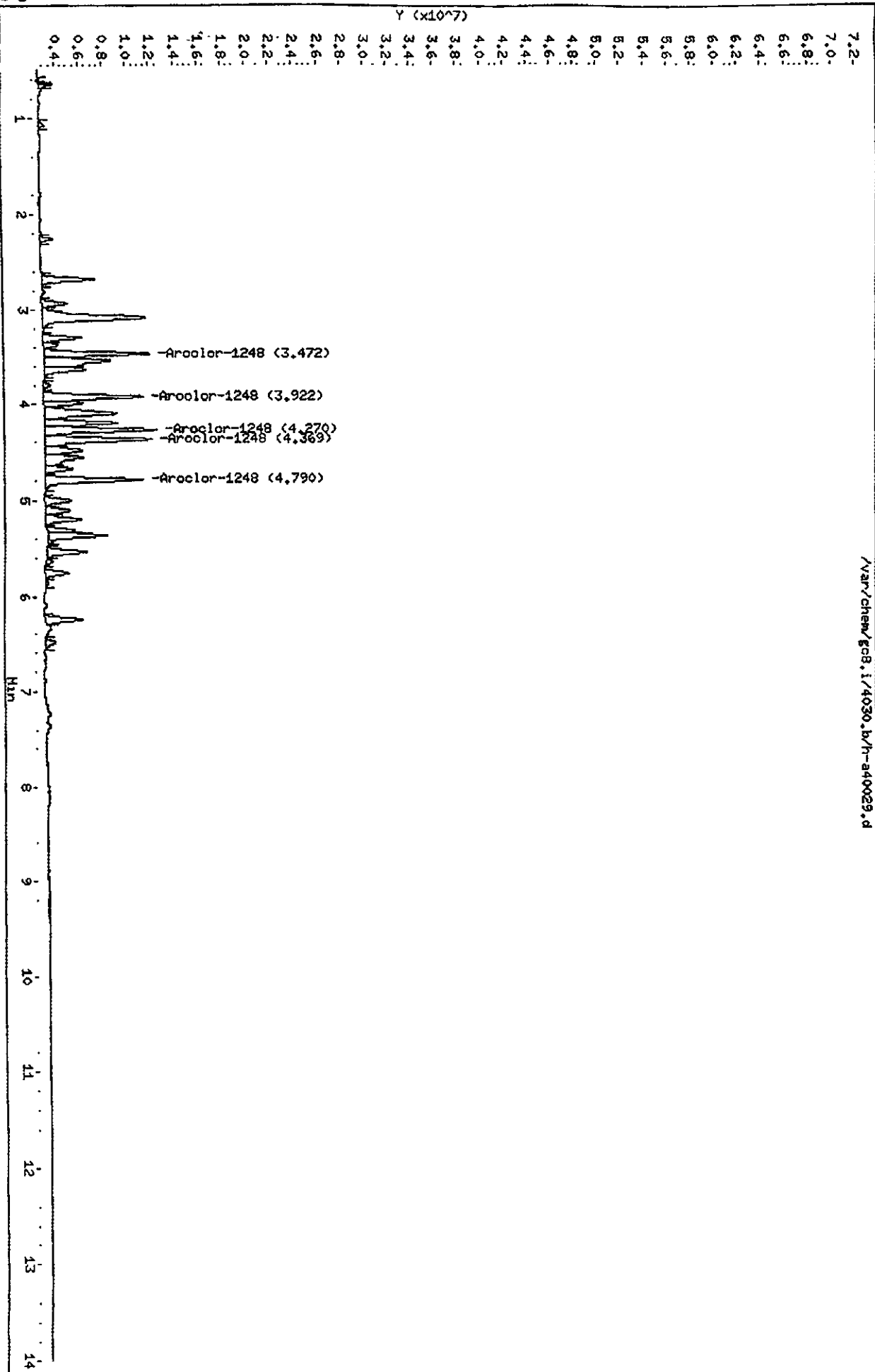
AMOUNTS									
			CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (ng)		(ng)	TARGET RANGE		RATIO	
==	=====	=====	=====	=====	=====	=====		=====	
21 Aroclor-1248					CAS #	12672-29-6			
3.472	3.473	-0.001	8965737	0.50000	0.47274	0.00-	0.00	0.00	
3.922	3.920	0.002	8482106	0.50000	0.47538	114.57-	154.57	0.00	
4.270	4.269	0.001	9555847	0.50000	0.44042	63.67-	103.67	0.00	
4.369	4.368	0.001	9111050	0.50000	0.40286	43.86-	83.86	0.00	
4.790	4.790	0.000	8345697	0.50000	0.38891	128.08-	168.08	0.00	
Average of Peak Amounts =					0.43606	7.50710			

17.507.0

2nd source

Data File: /var/chem/gc8.i/4030.b/h-a40029.d
Date: 03-JUL-2000 18:35
Client ID:
Sample Info: 2ND1248,4030.b
Column phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40030.d
Lab Smp Id: 2ND1660
Inj Date : 03-JUL-2000 18:55
Operator : 010139
Smp Info : 2ND1660,4030.b
Misc Info : 190-92-5
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:17 eppinged
Cal Date : 03-JUL-2000 17:17
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40
Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40025.d
Continuing Calibration Sample
Compound Sublist: 1660.sub
Sample Matrix: None

AMOUNTS									
			CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (ng)		(ng)		TARGET RANGE	RATIO	
..									
20 Aroclor-1016					CAS # 12674-11-2				
2.258	2.257	0.001	6117291	0.50000	0.47310	0.00-	0.00	0.00	
2.682	2.681	0.001	10561087	0.50000	0.43890	80.00-	120.00	0.00	
3.094	3.092	0.002	17044628	0.50000	0.43043	416.04-	456.04	0.00	
3.301	3.301	0.000	7289992	0.50000	0.40833	203.51-	243.51	0.00	
3.471	3.471	0.000	10153474	0.50000	0.42130	297.56-	337.56	0.00	
Average of Peak Amounts =					0.43441	13.17-0			

\$ 1 Tetrachloro-m-xylene CAS # 877-09-8

Compound Not Detected

\$ 34 Decachlorobiphenyl CAS # 2051-24-3

Compound Not Detected

36 Aroclor-1260					CAS # 11096-82-5				
5.640	5.639	0.001	12704761	0.50000	0.42809	0.00-	0.00	0.00(M)	
5.762	5.760	0.002	13660533	0.50000	0.43850	95.86-	135.86	0.00	
6.484	6.485	-0.001	12576576	0.50000	0.40163	116.91-	156.91	0.00	
7.357	7.360	-0.003	24220877	0.50000	0.50077	120.00-	160.00	0.00	
8.162	8.158	0.004	11590260	0.50000	0.47916	108.33-	148.33	0.00	
Average of Peak Amounts =					0.44963	10.17-0			

2nd
SOURCE

QC Flag Legend

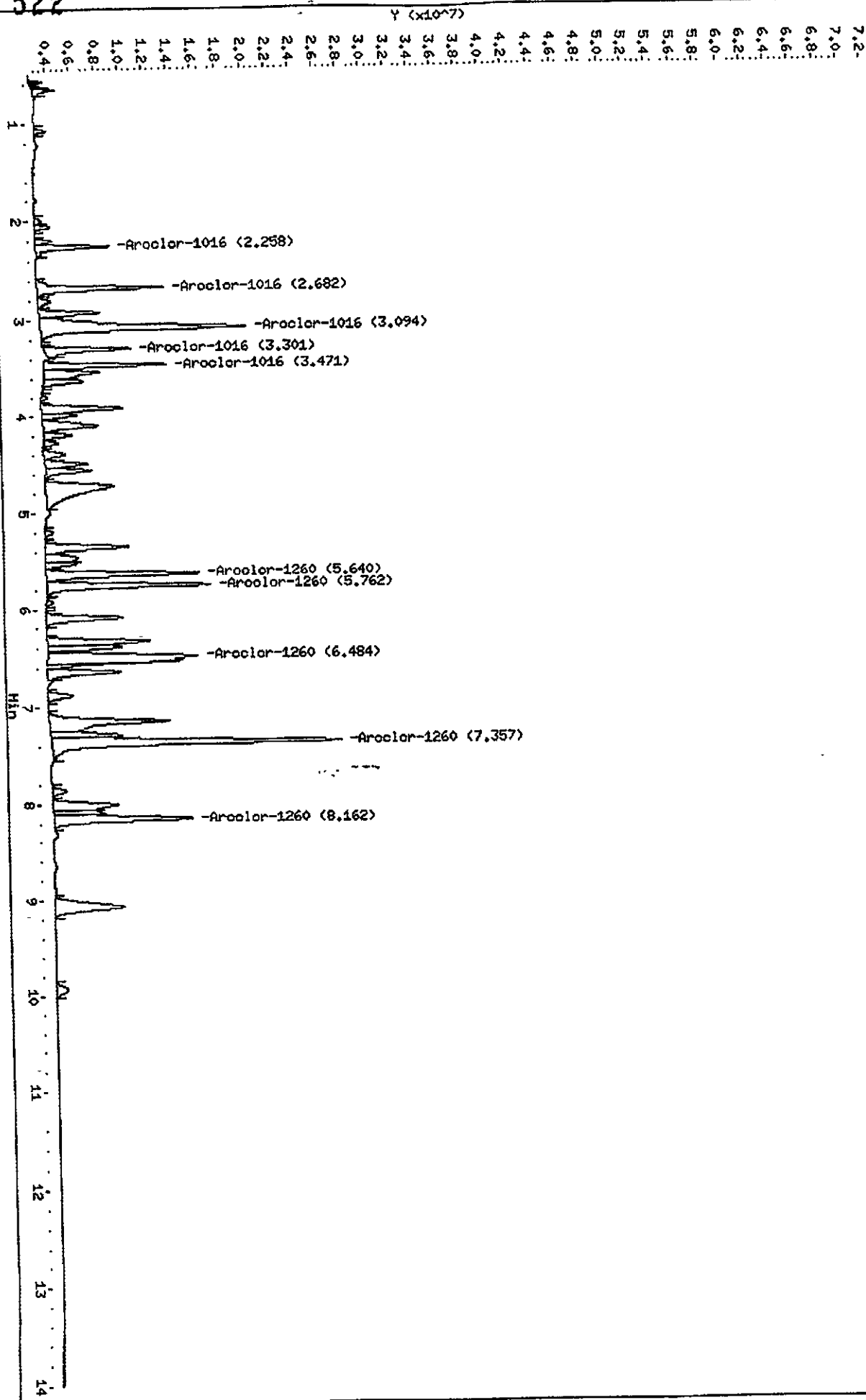
M - Compound response manually integrated.

Data File: /var/chem/gc08.1/4030.b/h-a40030.d
Date: 03-JUL-2000 18:55
Client ID:
Sample Info: 2ND1660,4030.b

Column phase: DB608

Instrument: gc08.i
Operator: 010139
Column diameter: 0.53

/var/chem/gc08.1/4030.b/h-a40030.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40093.d
Lab Smp Id: M1660
Inj Date : 04-JUL-2000 15:22
Operator : 010139
Smp Info : M1660,4030.b
Misc Info : 190-83-7
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:17 eppinged
Cal Date : 03-JUL-2000 17:17
Als bottle: 77
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40
Inst ID: gc8.i
Quant Type: ESTD
Cal File: h-a40025.d
Continuing Calibration Sample
Compound Sublist: 1660.sub
Sample Matrix: None

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ng)	TARGET RANGE	RATIO	
--	-----	-----	-----	-----	-----	-----	-----	
20 Aroclor-1016					CAS #. 12674-11-2			
2 258	2.257	0.001	6516678	0.50000	0.50399	0.00- 0.00	0.00 (M)	
2.680	2.681	-0.001	12338674	0.50000	0.51278	80.00- 120.00	0.00	
3 094	3.092	0.002	20564788	0.50000	0.51932	416.04- 456.04	0.00	
3.300	3.301	-0.001	9168421	0.50000	0.51354	203.51- 243.51	0.00	
3 471	3.471	0.000	12344830	0.50000	0.51223	297.56- 337.56	0.00	
Average of Peak Amounts =					0.51237			

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
1.733	1.733	0.000	20824396	0.02500	0.025724	0.00- 0.00	0.00	

\$ 14 Decachlorobiphenyl					CAS #: 2051-24-3			
10.835	10.828	0.007	7400066	0.02500	0.026616	0.00- 0.00	0.00	

36 Aroclor-1260					CAS #. 11096-82-5			
5 638	5.639	-0.001	15071680	0.50000	0.50785	0.00- 0.00	0.00 (M)	
5.760	5.760	0.000	15971527	0.50000	0.51268	95.86- 135.86	0.00	
6.484	6.485	-0.001	15873955	0.50000	0.50693	116.91- 156.91	0.00	
7.358	7.360	-0.002	24845657	0.50000	0.51368	120.00- 160.00	0.00	
8.161	8.158	0.003	12554552	0.50000	0.51903	108.33- 148.33	0.00	
Average of Peak Amounts =					0.51203			

663 524

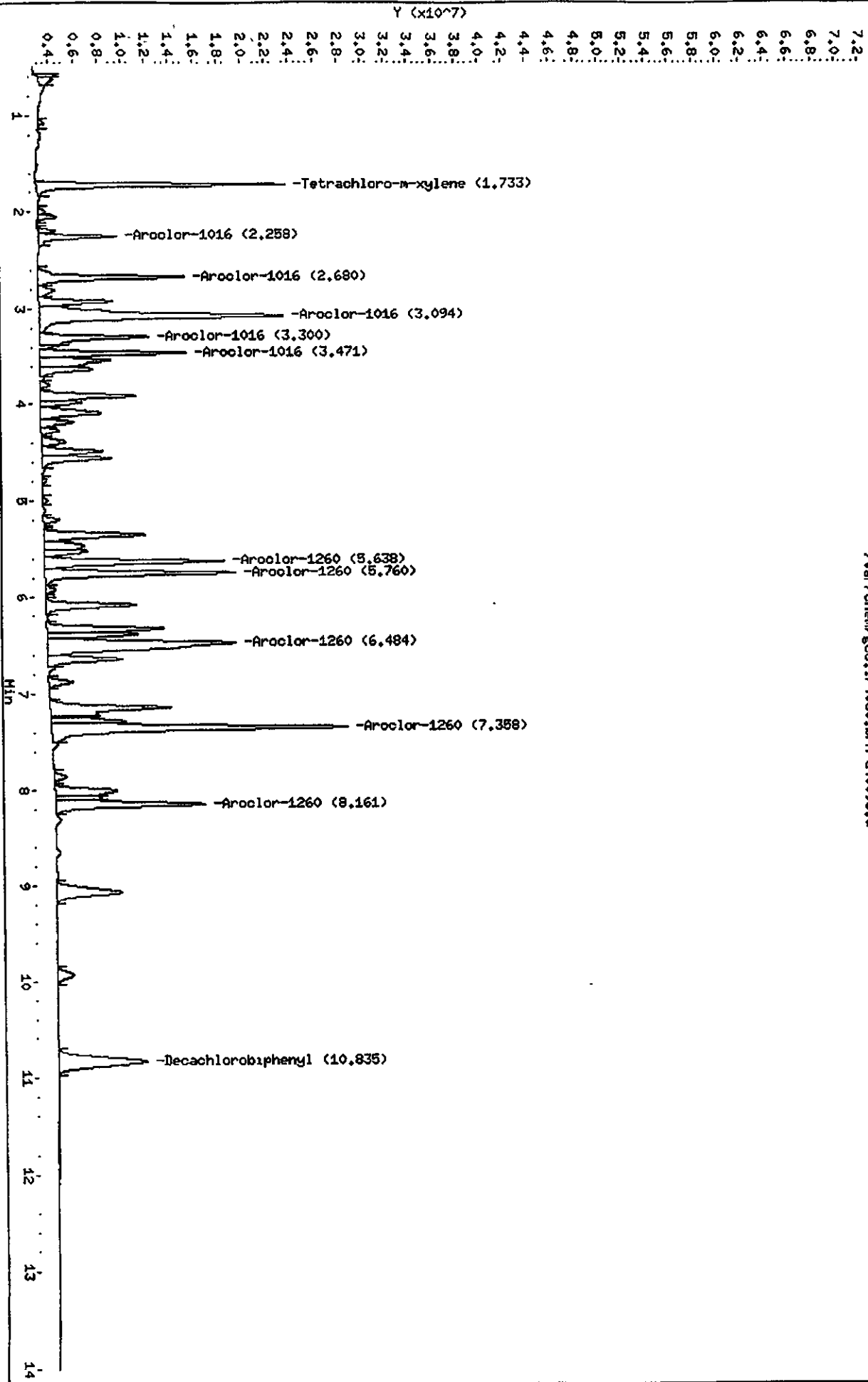
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gc8.i/4030.b/h-s40093.d
 Date: 04-JUL-2000 15:22
 Client ID:
 Sample Info: H1660,4030.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

/var/chem/gc8.i/4030.b/h-s40093.d



STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40114.d

Lab Smp Id: M1660

Inj Date : 04-JUL-2000 22:12

Operator : 010139

Inst ID: gc8.i

Smp Info : M1660,4030.b

Misc Info : 190-83-7

Comment :

Method : /var/chem/gc8.i/4030.b/PCBA.m

Meth Date : 05-Jul-2000 10:17 eppinged Quant Type: ESTD

Cal Date : 03-JUL-2000 17:17 Cal File: h-a40025.d

Als bottle: 98 Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1660.sub

Target Version: 3.40

Sample Matrix: None

AMOUNTS

RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
20	2.257	2.257	0.000	0.50000	0.49943 0.00- 0.00	0.00 (M)
2	681	2 681	0.000	0.50000	0.50548 80.00- 120.00	0.00
3	094	3.092	0.002	0.50000	0 51592 416.04- 456.04	0 00
3	301	3.301	0 000	0.50000	0.51284 203.51- 243.51	0.00
3	472	3.471	0.001	0.50000	0.50914 297.56- 337.56	0.00
Average of Peak Amounts =				0 50856		

\$ 1	1.733	1.733	0.000	0.02500	0.025396 0.00- 0.00	0 00

\$ 34	10.832	10.828	0.004	0.02500	0.026915 0.00- 0.00	0.00

36	5.641	5.639	0.002	0.50000	0.50524 0.00- 0.00	0.00 (M)
5	762	5 760	0 002	0.50000	0.50814 95 86- 135.86	0.00
6	486	6.485	0.001	0 50000	0.51882 116 91- 156.91	0.00
7	361	7.360	0.001	0.50000	0.51618 120.00- 160.00	0 00
8	162	8 158	0.004	0.50000	0.52495 108.33- 148.33	0.00
Average of Peak Amounts =				0 51467		

Data File: /var/chem/gc8.i/4030.b/h-a40114.d
Report Date: 05-Jul-2000 10:19

663 527

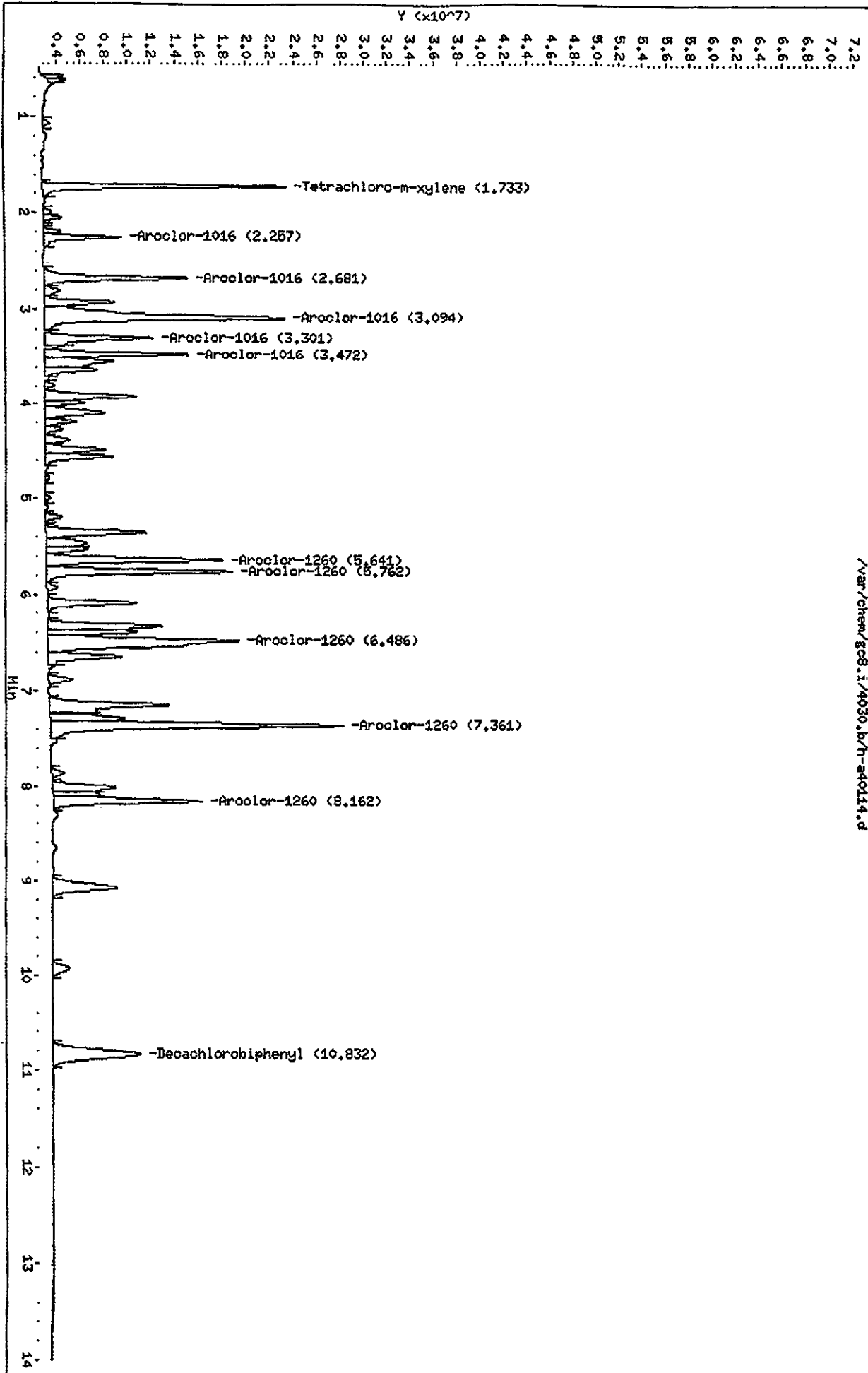
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gc08.i/4030.b/h-a40114.d
Date: 04-JUL-2000 22:12
Client ID:
Sample Info: H460,4030.b
Column phase: DB608

Instrument: gc08.i
Operator: 010139
Column diameter: 0.53



100 100

663 529

**PCB
QC DATA**

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

663 530

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: COG020000 112

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8N101

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/04/00

Moisture %: NA

QC Batch: 0184112

Client Sample Id: INTRA-LAB BLANK

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

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40111.d
 Lab Smp Id: DFN8M101 Client Smp ID: PBLK
 Inj Date : 04-JUL-2000 21:13
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DFN8M101,4030.b
 Misc Info : 300207BLK
 Comment :
 Method : /var/chem/gc8.i/4030.b/PCBA.m
 Meth Date : 05-Jul-2000 10:17 eppinged Quant Type: ESTD
 Cal Date : 03-JUL-2000 17:17 Cal File: h-a40025.d
 Als bottle: 95 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PCB.sub
 Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

		CONCENTRATIONS							
		ON-COL	FINAL						
RT	EXP RT DLT RT	RESPONSE (ng)	(ug/L)	TARGET RANGE	RATIO				
=====		=====	=====	=====	=====				
\$ 1	Tetrachloro-m-xylene	CAS #: 877-09-8							
1.733	1 733 0 000	12644237 0.01562	0.15619	0.00-	0 00	0 00			

8 Aroclor-1221 CAS #: 11104-28-2

Peaks not detected for Quant. or Qual. signal(s).

14 Aroclor-1232 CAS #: 11141-16-5

Peaks not detected for Quant. or Qual. signal(s).

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO
..							
15 Aroclor-1242					CAS #: 53469-21-9		
Peaks not detected for Quant. or Qual. signal(s).							

20 Aroclor-1016					CAS #: 12674-11-2		
Peaks not detected for Quant. or Qual. signal(s).							

21 Aroclor-1248					CAS #: 12672-29-6		
Peaks not detected for Quant. or Qual. signal(s).							

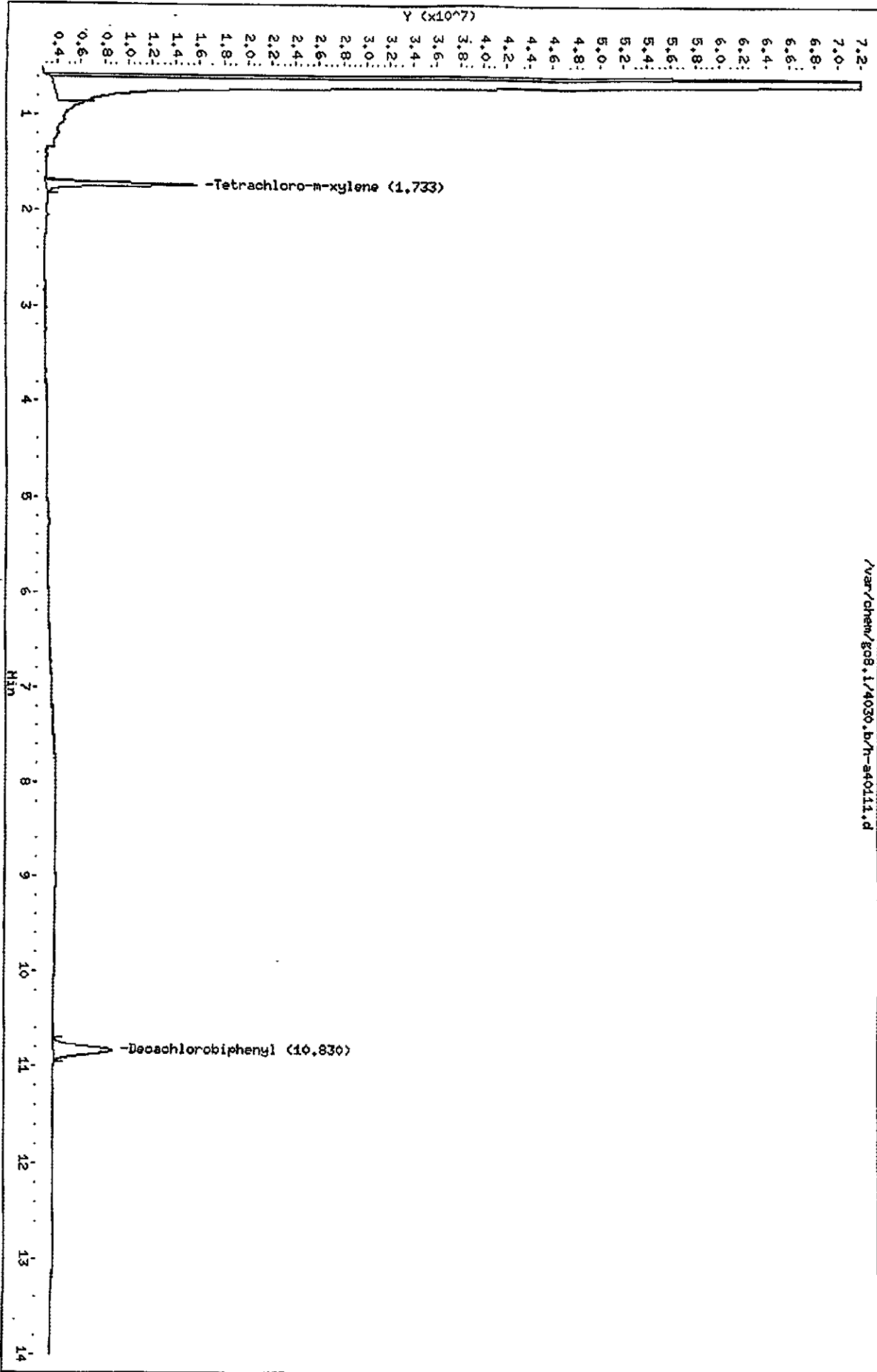
33 Aroclor-1254					CAS #: 11097-69-1		
Peaks not detected for Quant. or Qual. signal(s).							

\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10.830	10.828	0.002	4971828	0.01788	0.17882	0.00- 0.00	0.00

36 Aroclor-1260					CAS #: 11096-82-5		
Peaks not detected for Quant. or Qual. signal(s).							

Data File: /var/chem/gc8.i/4030.b/h-a40111.d
 Date: 04-JUL-2000 21:13
 Client ID: PBLK
 Sample Info: JFNRH01.4030.b
 Volume Injected (uL): 1.0
 Column Phase: DB608

Instrument: GC8.i
 Operator: 010139
 Column diameter: 0.53



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

663 534

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 112

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8N102

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/04/00

Moisture %: NA

QC Batch: 0184112

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
12674-11-2	Aroclor 1016	7.85	
11096-82-5	Aroclor 1260	8.29	

Data File: /var/chem/gc8.i/4030.b/h-a40112.d
Report Date: 05-Jul-2000 11:52

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40112.d
Lab Smp Id: DFN8M102 Client Smp ID: LCS
Inj Date : 04-JUL-2000 21:33
Operator : 010139 Inst ID: gc8.i
Smp Info : DFN8M102,4030.b
Misc Info : 300207LCS
Comment :
Method : /var/chem/gc8.i/4030.b/PCBA.m
Meth Date : 05-Jul-2000 10:17 eppinged Quant Type: ESTD
Cal Date : 03-JUL-2000 17:17 Cal File: h-a40025.d
Als bottle: 96 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

CONCENTRATIONS

RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	RESPONSE (ng)	(ug/L)		
20 Aroclor-1016 CAS #: 12674-11-2						
2 258	2.257	0.001	10092787 0.78057	7.8056	0.00- 0.00	0.00
2.680	2.681	-0.001	18854262 0.78356	7.8356	80 00- 120.00	0.00
3 092	3.092	0 000	31843362 0 80414	8.0414	416 04- 456.04	0.00
3.300	3.301	-0.001	13561138 0.75959	7.5959	203.51- 243.51	0.00
3 470	3.471	-0.001	19184171 0.79602	7.9602	297 56- 337.56	0.00
Average of Peak Concentrations =				7.8477		

\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8						
1.733	1.733	0.000	13202616 0.01631	0.16309	0.00- 0.00	0.00

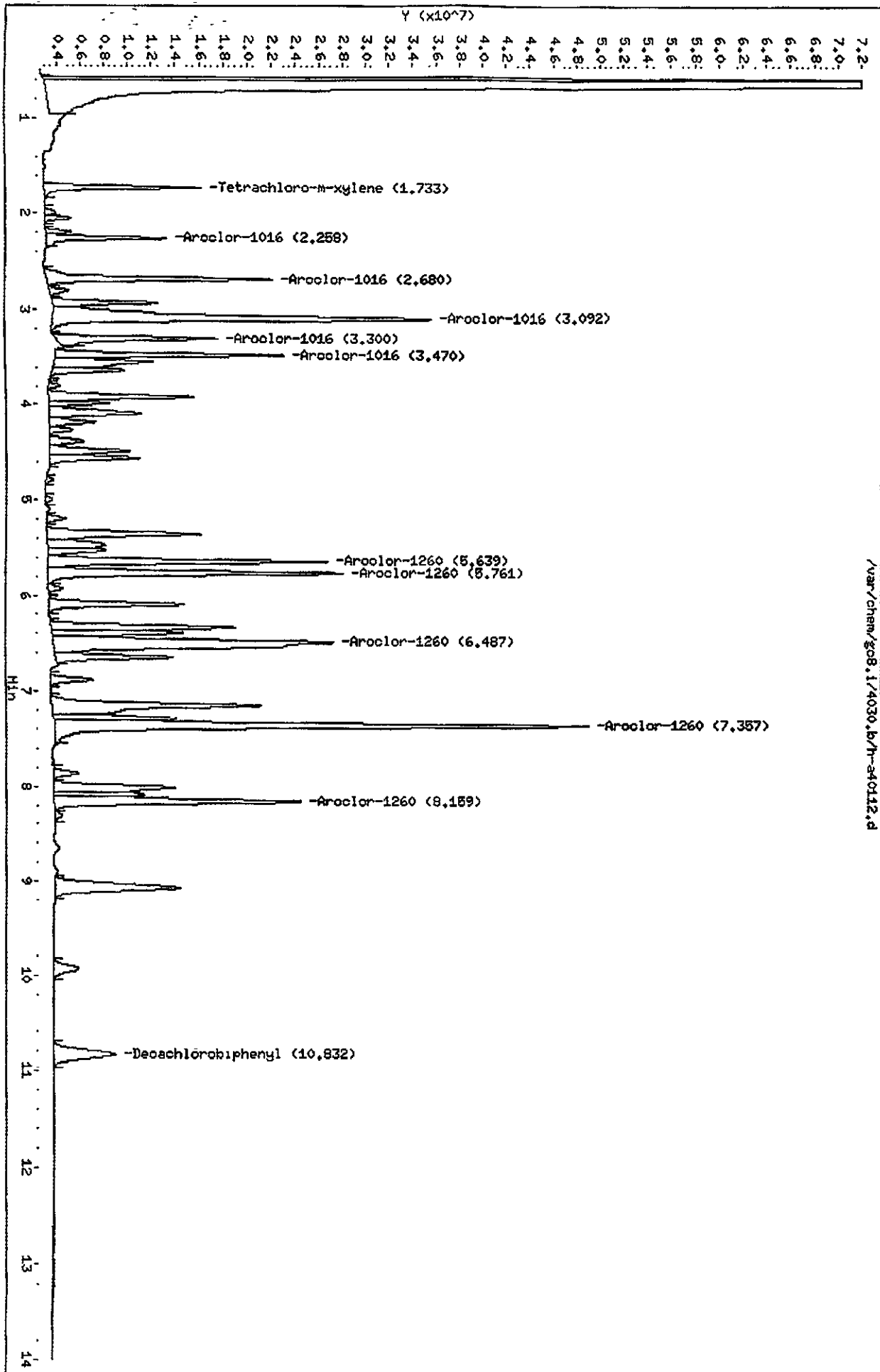
\$ 34 Decachlorobiphenyl CAS #: 2051-24-3						
10.832	10.828	0.004	5158701 0.01855	0.18554	0.00- 0.00	0.00

36 Aroclor-1260 CAS #: 11096-82-5						
5.639	5.639	0.000	23597723 0.79514	7 9514	0.00- 0.00	0.00

CONCENTRATIONS							
		ON-COL		FINAL			
RT	EXP RT	DLT RT	RESPONSE	(ng)	(ug/L)	TARGET RANGE	RATIO
..	*****	*****	*****	*****	*****	*****	*****
36 Aroclor-1260 (continued)							
5.761	5.760	0.001	24910231	0.79961	7.9961	95.86- 135.86	0.00
6.487	6.485	0.002	23552074	0.75213	7.5212	116.91- 156.91	0.00
7.357	7.360	-0.003	45211762	0.93475	9.3475	120.00- 160.00	0.00
8.159	8.158	0.001	20830911	0.86119	8.6119	108.33- 148.33	0.00
Average of Peak Concentrations =				8.2856			

Data File: /var/chem/g08.i/4030.b/h-a40112.d
Date: 04-JUL-2000 21:33
Client ID: LCS
Sample Info: DFNH102,4030.b
Volume Injected (ul): 1.0
Column phase: DB608

Instrument: g08.i
Operator: 010139
Column diameter: 0.53



UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

663 538

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 112

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8N103

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/04/00

Moisture %: NA

QC Batch: 0184112

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	7.27	
11096-82-5	Aroclor 1260	7.50	

FORM I

Data File: /var/chem/gc8.i/4030.b/h-a40113.d
 Report Date: 05-Jul-2000 11:52

Page 1

STL-PITTSBURGH

Data file : /var/chem/gc8.i/4030.b/h-a40113.d
 Lab Smp Id: DFN8M103 Client Smp ID: LCSD
 Inj Date : 04-JUL-2000 21:52
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DFN8M103,4030.b
 Misc Info : 300207LCD
 Comment :
 Method : /var/chem/gc8.i/4030.b/PCBA.m
 Meth Date : 05-Jul-2000 10:17 eppinged Quant Type: ESTD
 Cal Date : 03-JUL-2000 17:17 Cal File: h-a40025.d
 Als bottle: 97 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1660.sub
 Target Version: 3.40 Sample Matrix: WATER

Concentration Formula: Amt * DF * Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

CONCENTRATIONS								
			ON-COL	FINAL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
20 Aroclor-1016			CAS #: 12674-11-2					
2.259	2.257	0.002	9235044	0.71423	7.1423	0.00-	0.00	0.00
2.680	2.681	-0.001	17287238	0.71844	7.1844	80.00-	120.00	0.00
3.094	3.092	0.002	29639098	0.74847	7.4847	416.04-	456.04	0.00
3.302	3.301	0.001	12917146	0.72352	7.2352	203.51-	243.51	0.00
3.471	3.471	0.000	17652190	0.73245	7.3245	297.56-	337.56	0.00
Average of Peak Concentrations =			7.2742					

\$ 1 Tetrachloro-m-xylene			CAS #: 877-09-8					
1.733	1.733	0.000	12831566	0.01585	0.15851	0.00-	0.00	0.00

\$ 34 Decachlorobiphenyl			CAS #: 2051-24-3					
10.830	10.828	0.002	4994503	0.01796	0.17964	0.00-	0.00	0.00

36 Aroclor-1260			CAS #: 11096-82-5					
5.639	5.639	0.000	21399657	0.72107	7.2107	0.00-	0.00	0.00(M)

CONCENTRATIONS								
RT	EXP RT	DLT RT	ON-COL		FINAL	TARGET RANGE	RATIO	
			RESPONSE (	ng)				
==	=====	=====	=====	=====	=====	=====	=====	=====
36 Aroclor-1260 (continued)								
5.759	5.760	-0.001	22172976	0.71175	7 1175	95 86- 135.86	0.00	
6.487	6.485	0 002	22143675	0.70715	7.0715	116.91- 156 91	0 00	
7 359	7.360	-0.001	40073341	0.82852	8.2852	120.00- 160.00	0 00	
8.162	8.158	0.004	18960553	0.78387	7.8386	108.33- 148.33	0.00	
Average of Peak Concentrations =					7.5047			

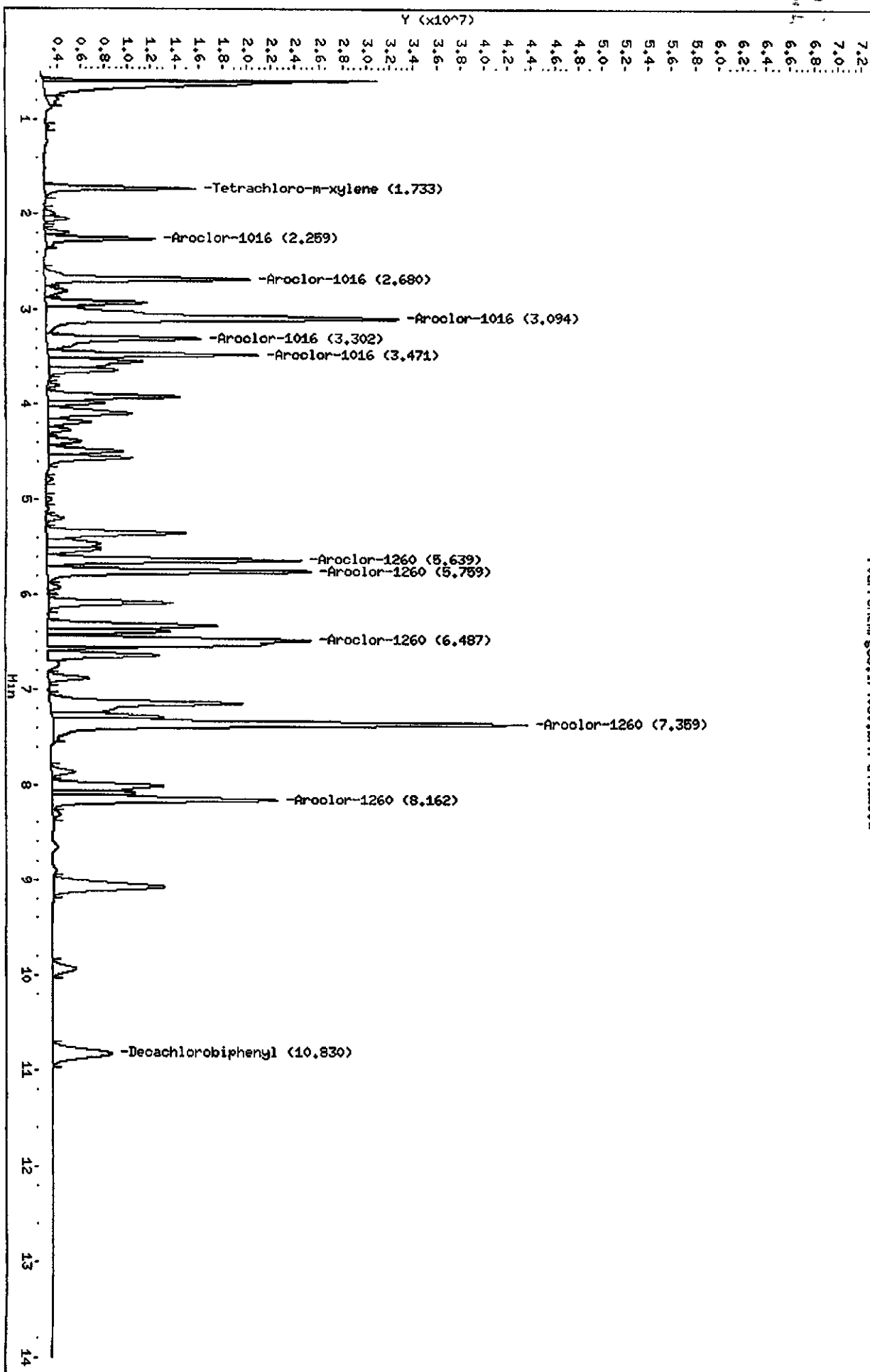
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gc8.i/4030.b/h-a40113.d
Date: 04-JUL-2000 21:52
Client ID: LCSD
Sample Info: DFNBH03,4030.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53

/var/chem/gc8.i/4030.b/h-a40113.d



663 542

PCB
MISCELLANEOUS

Separatory Funnel Extraction Worksheet

Test TBA'D
Feb Acid Neutral
MM 7/3/00

Test P/B

Test B# 0184111
PCB B# 0184112

STL
STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

4072

Date Extraction Began	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	Clean up Method			
7-3-00	7-3-00	8081A/8082	3510C	M E C I	T12278	Baker	N/A			
Lot Number	Sample ID	Client ID	pH	Sample Volume (mL)	Final Volume (mL)	Surrogate Number	Surrogate Volume (mL)	Matrix Spike No.	Matrix Spike Volume (mL)	Cleanup Date
	1. CDF 300207	BLK	5	1000.1	10.0	190-93-4	1.0mL	N/A	N/A	N/A
	2. CDF 300207	LC5						N/A	N/A	N/A
	3. CDF 300207	LC50.43						N/A	N/A	N/A
	4. CDF 300207	LC50.43						N/A	N/A	N/A
	5. CDF 300207	LC50.43						N/A	N/A	N/A
	6. CDF 300207	LC50.43						N/A	N/A	N/A
	7. CDF 300207	LC50.43						N/A	N/A	N/A
	8. CDF 300207	LC50.43						N/A	N/A	N/A
	9. CDF 300207	LC50.43						N/A	N/A	N/A
	10. CDF 300207	LC50.43						N/A	N/A	N/A
	11. CDF 300207	LC50.43						N/A	N/A	N/A
	12. CDF 300207	LC50.43						N/A	N/A	N/A
	13. CDF 300207	LC50.43						N/A	N/A	N/A
	14. CDF 300207	LC50.43						N/A	N/A	N/A
	15. CDF 300207	LC50.43						N/A	N/A	N/A
	16. CDF 300207	LC50.43						N/A	N/A	N/A
	17. CDF 300207	LC50.43						N/A	N/A	N/A
	18. CDF 300207	LC50.43						N/A	N/A	N/A
	19. CDF 300207	LC50.43						N/A	N/A	N/A
	20. CDF 300207	LC50.43						N/A	N/A	N/A
	21. CDF 300207	LC50.43						N/A	N/A	N/A
	22. CDF 300207	LC50.43						N/A	N/A	N/A
	23. CDF 300207	LC50.43						N/A	N/A	N/A
	24. CDF 300207	LC50.43						N/A	N/A	N/A
Analyst	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.
Extract(s)	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.
Record line number from above	7-2-00	1750	7-3-00	0900	7-3-00	0945	7-3-00	0945	7-3-00	0945
Location	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC
Sodium Sulfate Mfg.	Baker	Baker	Baker	Baker	Baker	Baker	Baker	Baker	Baker	Baker
Lot Number	N40624	N40624	N40624	N40624	N40624	N40624	N40624	N40624	N40624	N40624
Reviewed By	W. J. J. J.	W. J. J. J.	W. J. J. J.	W. J. J. J.	W. J. J. J.	W. J. J. J.	W. J. J. J.	W. J. J. J.	W. J. J. J.	W. J. J. J.
Date	7-3-00	7-3-00	7-3-00	7-3-00	7-3-00	7-3-00	7-3-00	7-3-00	7-3-00	7-3-00
Time	1750	1750	1750	1750	1750	1750	1750	1750	1750	1750
Analyst	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.
Extract(s) Relinquished	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.
Location	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC	ALL ALC

CREATED: LM 7/3/00
Sequence Table (Front Injector):

Vial Information Part:

M

Line	Vial	Vial Information
=====	=====	===== BOB2 ANALYSIS =====
1	1	190-83-1 1817
2	2	190-83-2
3	3	190-83-3
4	4	190-83-4 20
5	5	190-83-5
6	6	190-83-6
7	7	190-83-7
8	8	190-83-8
9	9	190-83-9 2625
10	10	190-92-1
11	11	190-92-2
12	12	190-92-3
13	13	190-92-4
14	14	190-92-5 30
15	15	280241-1 2X
16	16	280241-1S 2X
17	17	280241-1D 2X
18	18	~~20X 280241-2~~
19	19	280241-3 35
20	20	280241-4
21	21	280241-5
22	22	280241-6
23	23	~~10X 280241-7~~
24	24	280241-8 40
25	25	280241-9

✓ ED
LM
7/6/00

663 545

Line Vial Vial Information

Line	Vial	Vial Information
26	26	280241-10
27	27	~~280241-11~~ ZX
28	28	~~280241-12~~ 4X
29	29	280241-13 45
30	30	280241-14
31	31	280241-15
32	32	280241-16
33	33	280241-BLK1
34	34	280241-LCS1 50
35	35	190-83-7 52 51
36	36	280241-17
37	37	280241-18
38	38	~~280241-19~~ 4X
39	39	280241-20 55
40	40	~~280241-21~~
41	41	~~280241-21S~~ 2X
42	42	~~280241-21D~~
43	43	280241-29
44	44	280241-30 60
45	45	280241-38
46	46	280241-39
47	47	~~280241-42~~ TBA
48	48	~~280241-47~~ TBA
49	49	280241-48 65
50	50	280241-56
51	51	280241-57
52	52	280241-61
53	53	280241-66

663 546

Line	Vial	Vial Information
====	====	=====
54	54	280241-BLK2 <i>70</i>
55	55	280241-LCS2
56	56	190-83-7 <i>63-62 72</i>
57	57	280241-67
58	58	280241-68
59	59	280241-69 <i>75</i>
60	60	280241-70
61	61	280241-71
62	62	280241-72
63	63	280241-73
64	64	280241-81 <i>80</i>
65	65	~~280241-82~~
66	66	<i>TBA</i> ~~280241-82S~~
67	67	~~280241-82D~~
68	68	280241-88
69	69	280241-89 <i>85</i>
70	70	280241-97
71	71	280241-98
72	72	280241-102
73	73	280241-103
74	74	280241-104 <i>90</i>
75	75	280241-BLK3
76	76	280241-LCS3
77	77	190-83-7
78	78	<i>UX</i> ~~280241-105~~
79	79	<i>ZOX</i> ~~280241-106~~ <i>95</i>
80	80	280241-107
81	81	230157-1 *10

663 547

Line	Vial	Vial Information
====	====	=====
82	82	230157-2
83	83	230157-BLK
84	84	230157-LCS 100
85	85	230157-LCD
86	86	300204002
87	87	300204002S
88	88	300204002D
89	89	300204003 105
90	90	300204004
91	91	300204BLK
92	92	300204LCS
93	93	300207001
94	94	130163-1 110
95	95	300207BLK
96	96	300207LCS
97	97	300207LCD
98	98	190-83-7
99	99	130163-1S 115
100	100	130163-1D
101	1	130163-2
102	2	130163-3
103	3	140259BLK
104	4	140259-1 120
105	5	140259-2
106	6	140259-3
107	7	150298BLK
108	8	150298001
109	9	150298002 125

Line	Vial	Vial Information
110	10	150298003
111	11	160278BLK
112	12	160278-1
113	13	160278-2
114	14	160278-3 130
115	15	130163BLK
116	16	130163LCS
117	17	190-83-7 133

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	M2154,4030.b	PCB	1	Sample		
2	2	M1232,4030.b	PCB	1	Sample		
3	3	M1242,4030.b	PCB	1	Sample		
4	4	M1248,4030.b	PCB	1	Sample		
5	5	L1660,4030.b	PCB	1	Sample		
6	6	ML1660,4030.b	PCB	1	Sample		
7	7	M1660,4030.b	PCB	1	Sample		
8	8	MH1660,4030.b	PCB	1	Sample		
9	9	H1660,4030.b	PCB	1	Sample		
10	10	2ND2154,4030.b	PCB	1	Sample		
11	11	2ND1232,4030.b	PCB	1	Sample		
12	12	2ND1242,4030.b	PCB	1	Sample		
13	13	2ND1248,4030.b	PCB	1	Sample		
14	14	2ND1660,4030.b	PCB	1	Sample		
15	15	DFFAH102,4030.b	PCB	1	Sample		
16	16	DFFAH104,4030.b	PCB	1	Sample		
17	17	DFFAH105,4030.b	PCB	1	Sample		
18	18	DFFAM102,4030.b	PCB	1	Sample		
19	19	DFFAN102,4030.b	PCB	1	Sample		
20	20	DFFAP102,4030.b	PCB	1	Sample		
21	21	DFFAQ102,4030.b	PCB	1	Sample		
22	22	DFFAR102,4030.b	PCB	1	Sample		
23	23	DFFAT102,4030.b	PCB	1	Sample		
24	24	DFFAV102,4030.b	PCB	1	Sample		
25	25	DFFAW102,4030.b	PCB	1	Sample		
26	26	DFFAX102,4030.b	PCB	1	Sample		
27	27	DFFC0102,4030.b	PCB	1	Sample		
28	28	DFFC1102,4030.b	PCB	1	Sample		
29	29	DFFC3102,4030.b	PCB	1	Sample		
30	30	DFFC4102,4030.b	PCB	1	Sample		
31	31	DFFC7102,4030.b	PCB	1	Sample		
32	32	DFFCD102,4030.b	PCB	1	Sample		
33	33	DFJA1101,4030.b	PCB	1	Sample		
34	34	DFJA1102,4030.b	PCB	1	Sample		
35	35	M1660,4030.b	PCB	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
36	36	DFFCE102,4030.b	PCB	1	Sample		
37	37	DFFCG102,4030.b	PCB	1	Sample		
38	38	DFFCH102,4030.b	PCB	1	Sample		
39	39	DFFCK102,4030.b	PCB	1	Sample		
40	40	DFFCM102,4030.b	PCB	1	Sample		
41	41	DFFCM104,4030.b	PCB	1	Sample		
42	42	DFFCM105,4030.b	PCB	1	Sample		
43	43	DFFD4103,4030.b	PCB	1	Sample		
44	44	DFFD5103,4030.b	PCB	1	Sample		
45	45	DFFDK103,4030.b	PCB	1	Sample		
46	46	DFFDL103,4030.b	PCB	1	Sample		
47	47	DFFDR102,4030.b	PCB	1	Sample		
48	48	DFFE8103,4030.b	PCB	1	Sample		
49	49	DFFEA103,4030.b	PCB	1	Sample		
50	50	DFFE103,4030.b	PCB	1	Sample		
51	51	DFFEW103,4030.b	PCB	1	Sample		
52	52	DFFF4103,4030.b	PCB	1	Sample		
53	53	DFFFD103,4030.b	PCB	1	Sample		
54	54	DFJA6101,4030.b	PCB	1	Sample		
55	55	DFJA6102,4030.b	PCB	1	Sample		
56	56	M1660,4030.b	PCB	1	Sample		
57	57	DFFFG103,4030.b	PCB	1	Sample		
58	58	DFFFJ103,4030.b	PCB	1	Sample		
59	59	DFFFK103,4030.b	PCB	1	Sample		
60	60	DFFFM103,4030.b	PCB	1	Sample		
61	61	DFFFR103,4030.b	PCB	1	Sample		
62	62	DFFFT103,4030.b	PCB	1	Sample		
63	63	DFFV103,4030.b	PCB	1	Sample		
64	64	DFFG6103,4030.b	PCB	1	Sample		
65	65	DFFG7103,4030.b	PCB	1	Sample		
66	66	DFFG7104,4030.b	PCB	1	Sample		
67	67	DFFG7105,4030.b	PCB	1	Sample		
68	68	DFFGH103,4030.b	PCB	1	Sample		
69	69	DFFGK103,4030.b	PCB	1	Sample		
70	70	DFFGX103,4030.b	PCB	1	Sample		
71	71	DFFH0103,4030.b	PCB	1	Sample		
72	72	DFFH4102,4030.b	PCB	1	Sample		
73	73	DFFH5102,4030.b	PCB	1	Sample		
74	74	DFFH6102,4030.b	PCB	1	Sample		
75	75	DFJAA101,4030.b	PCB	1	Sample		
76	76	DFJAA102,4030.b	PCB	1	Sample		
77	77	M1660,4030.b	PCB	1	Sample		
78	78	DFFH7102,4030.b	PCB	1	Sample		
79	79	DFFH8102,4030.b	PCB	1	Sample		
80	80	DFFH9103,4030.b	PCB	1	Sample		
81	81	DF7C6101,4030.b	PCB	1	Sample		
82	82	DF7CL103,4030.b	PCB	1	Sample		
83	83	DFAXN101,4030.b	PCB	1	Sample		
84	84	DFAXN102,4030.b	PCB	1	Sample		
85	85	DFAXN103,4030.b	PCB	1	Sample		
86	86	DFKQV10W,4030.b	PCB	1	Sample		
87	87	DFKQV12N,4030.b	PCB	1	Sample		
88	88	DFKQV12P,4030.b	PCB	1	Sample		
89	89	DFKRE10W,4030.b	PCB	1	Sample		
90	90	DFKRK10W,4030.b	PCB	1	Sample		
91	91	DFN8J101,4030.b	PCB	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
92	92	DFN8J102,4030.b	PCB	1	Sample		
93	93	DFKQ3103,4030.b	PCB	1	Sample		
94	94	DEKR1109,4030.b	PCB	1	Sample		
95	95	DFN8M101,4030.b	PCB	1	Sample		
96	96	DFN8M102,4030.b	PCB	1	Sample		
97	97	DFN8M103,4030.b	PCB	1	Sample		
98	98	M1660,4030.b	PCB	1	Sample		
99	99	DEKR1118,4030.b	PCB	1	Sample		
100	100	DEKR1119,4030.b	PCB	1	Sample		
101	1	DEKRH109,4030.b	PCB	1	Sample		
102	2	DEKRJ109,4030.b	PCB	1	Sample		
103	3	DFDA6103,4030.b	PCB	1	Sample		
104	4	DENJM108,4030.b	PCB	1	Sample		
105	5	DENJX108,4030.b	PCB	1	Sample		
106	6	DENK1108,4030.b	PCB	1	Sample		
107	7	DFDA6104,4030.b	PCB	1	Sample		
108	8	DER4P107,4030.b	PCB	1	Sample		
109	9	DER4T107,4030.b	PCB	1	Sample		
110	10	DER4V107,4030.b	PCB	1	Sample		
111	11	DFDA6105,4030.b	PCB	1	Sample		
112	12	DEV66108,4030.b	PCB	1	Sample		
113	13	DEV6810M,4030.b	PCB	1	Sample		
114	14	DEV6G108,4030.b	PCB	1	Sample		
115	15	DFDA6101,4030.b	PCB	1	Sample		
116	16	DFDA6102,4030.b	PCB	1	Sample		
117	17	M1660,4030.b	PCB	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	8082 ANALYSIS
2	2	190-83-7
3	3	280241-1
4	4	280241-1S
5	5	280241-1D
6	6	280241-2
7	7	280241-3
8	8	280241-4

Handwritten: UM 4/3/00

Method and Injection Info Part:

663 551

PSR024 7/02/00 14:05:39 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: PINOB

METHOD: QH PCBs (8082)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u> <u>RCVD</u>	<u>QTY</u> <u>REQD</u>
2D CLP1	DFKQ3-1-04	— — —	247282	399411	I-09-QH	COF300207	001		WATER	0	13 1

RELINQUISHED BY

Brian A. Piro
Brian A. Piro

RECEIVED BY

Brian A. Piro
Brian A. Piro

DATE/TIME

6/7/2-00
7-2-00 1600
7-2-00

***** END OF REPORT *****

STL Pittsburgh

4080

663 552

HERBICIDE DATA

**HERBICIDE
QC SUMMARY**

663 554

SW846 8151A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0F300207

	CLIENT ID.	SRG01	TOT OUT
	=====	=====	=====
01	DF/S1/0181/IDW/001	75	00
02	METHOD BLK. DFN8K101	64	00
03	LCS DFN8K102	104	00
04	LCSD DFN8K103	107	00

SURROGATES

SRG01 = DCAA

QC LIMITS

(53-119)

- # Column to be used to flag recovery values
- * Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8K102

BATCH: 0184109

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
2,4-D	16.0	17.5	110	46 - 124	
2,4,5-TP (Silvex)	4.00	3.85	96	53 - 127	
2,4,5-T	4.00	4.13	103	40 - 126	
Pentachlorophenol	2.00	1.95	97	30 - 125	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

663 556

SW846 8151A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0G020000

WO #: DFN8K103

BATCH: 0184109

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	18.7	117	46 - 124	
2,4,5-TP (Silvex)	4.00	4.00	100	53 - 127	
2,4,5-T	4.00	4.33	108	40 - 126	
Pentachlorophenol	2.00	1.98	99	30 - 125	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

FORM III

SW846 8151A METHOD BLANK SUMMARY

663. 557
BLANK WORKORDER NO.

DFN8K101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: A-A40113.

Lot Number: C0F300207

Matrix: WATER

Extraction Method: 8151A

Date Extracted: 07/02/00

Date Analyzed(1): 07/06/00

Date Analyzed(2): N/A

Time Analyzed(1): 00:19

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1): DB5/DB1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/S1/0181/IDW/001	DFKQ3112	07/11/00	N/A
02	CHECK SAMPLE	DFN8K102 C	07/06/00	N/A
03	DUPLICATE CHECK	DFN8K103 L	07/06/00	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

663 558

**HERBICIDE
SAMPLE DATA**

UXB INTERNATIONAL

663 559

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0F300207 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFKQ3112

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/11/00

Moisture %: NA

QC Batch: 0184109

Client Sample Id: DF/S1/0181/IDW/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
94-75-7	2,4-D	2.6	J P
93-72-1	2,4,5-TP (Silvex)	1.1	P

663 560

Data File: /var/chem/gc1.i/4050.b/a-a40163.d

Report Date: 12-Jul-2000 09:07

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050.b/a-a40163.d
 Lab Smp Id: DFKQ3112 Client Smp ID: DF/SI/0181/IDW/001
 Inj Date : 11-JUL-2000 17:41
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DFKQ3112,4050.b
 Misc Info : 300207-1
 Comment :
 Method : /var/chem/gc1.i/4050.b/LONGH.m
 Meth Date : 12-Jul-2000 09:05 g Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:00 Cal File: a-a40102.d
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

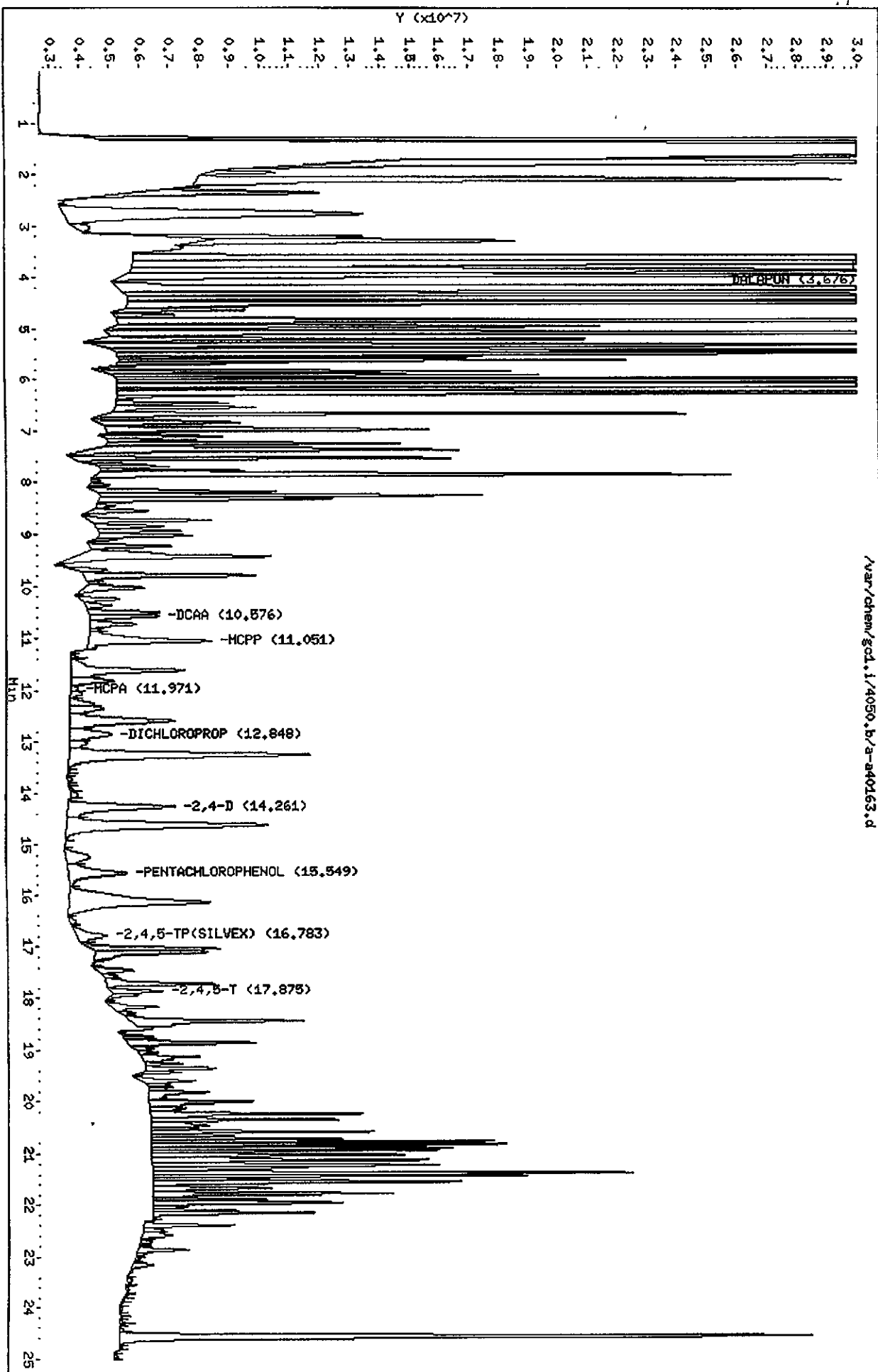
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	3.676	3.733	-0.057	63935981	0.69337	138.7
\$ 2 DCAA	10.576	10.579	-0.003	11009147	0.03735	7.469
3 MCPP	11.051	11.016	0.035	4132238	8.01979	1604
4 DICAMBA	Compound Not Detected.					
5 MCPA	11.971	11.978	-0.007	257147	0.45414	90.83
6 DICHLOROPROP	12.848	12.809	0.039	1435646	0.03286	6.572
7 2,4-D	14.261	14.317	-0.056	29105909	0.09313	18.63
8 PENTACHLOROPHENOL	15.549	15.539	0.010	2005580	0.00385	0.7695
9 2,4,5-TP(SILVEX)	16.783	16.769	0.014	8977697	0.00541	1.082
10 2,4,5-T	17.875	17.893	-0.018	7581977	0.00674	1.349
11 DINOSEB	Compound Not Detected					
12 2,4-DB	Compound Not Detected.					

663

561

Data File: /var/chem/gcd.1/4050.b/a-a40163.d
Date: 11-JUL-2000 17:41
Client ID: DF/SI/0181/IDW/001
Sample Info: DFK03112.4050.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gcd.i
Operator: 01797
Column diameter: 0.53



663 562

Data File: /var/chem/gc1.i/4050A.b/a-b40213.d
 Report Date: 12-Jul-2000 12:55

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050A.b/a-b40213.d
 Lab Smp Id: DFKQ3112 Client Smp ID: DF/SI/0181/IDW/001
 Inj Date : 11-JUL-2000 18:10
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DFKQ3112,4050A.b
 Misc Info : 300207-1
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 12-Jul-2000 12:52 matkol Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:29 Cal File: a-b40092.d
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 3.40

Concentration Formula: $\text{Amt} * \text{DF} * 20 * \text{Vt} / \text{Vo} / \text{Vi}$

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT	RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	4.649	4.657	-0.008	345128831	2.48090	496.2	
\$ 2 DCAA	12.275	12.257	0.018	68279304	0.17776	35.55(R)	
3 DICAMBA	12.991	12.944	0.047	658276	0.00215	0.4300	
4 MCPP	13.376	13.440	-0.064	959604	3.72664	745.3	
5 MCPA	14.473	14.446	0.027	1274455	3.70698	741.4	
6 DICHLOROPROP	15.794	15.744	0.050	265993	0.00436	0.8724	
7 2,4-D	17.059	17.069	-0.010	1067229	0.01301	2.602	
8 PENTACHLOROPHENOL	17.308	17.345	-0.037	1457276	0.00102	0.2035	
9 2,4,5-TP(SILVEX)	18.482	18.510	-0.028	6012441	0.00821	1.643	
10 2,4,5-T	19.184	19.164	0.020	2792582	0.00479	0.9580	
11 2,4-DB	19.747	19.683	0.064	5955106	0.08747	17.49	
12 DINOSEB	20.355	20.344	0.011	5012494	0.00730	1.459	

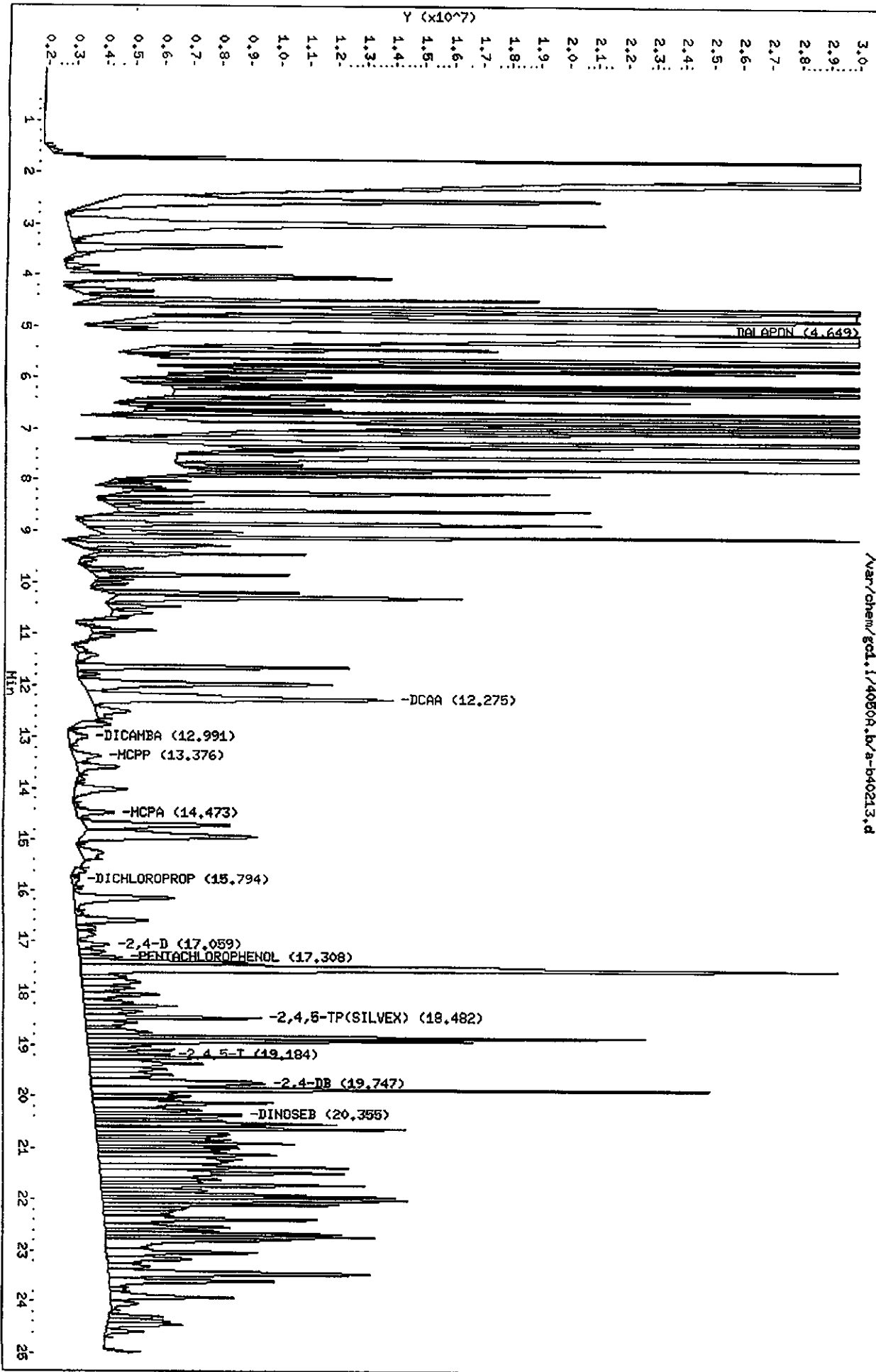
Data File: /var/chem/gc1.i/4050A.b/a-b40213.d
Report Date: 12-Jul-2000 12:55

663 563

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

663. 564



Data File: /var/chem/gcd.i/4050A.b/a-b40213.d
 Date : 11-JUL-2000 18:10
 Client ID: DF/SI/0181/IDM/004
 Sample Info: DFKQ3142,4050A.b
 Volume Injected (uL): 1.0
 Column phase: DB1701

Instrument: gcd.i
 Operator: 01797
 Column diameter: 0.53

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

663 565

EPA SAMPLE NO.

DF/SI/018
1/IDW/001

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.: 40325

SDG No.: C0F300207

Lab Sample ID: DFKQ3112

Date(s) Analyzed: 07/11/00 07/11/00

Instrument ID (1): GC1

Instrument ID (2): GC1

GC Column(1): DB608

ID: 0.53 (mm)

GC Column(2): DB1701

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
=====	===	=====	FROM	TO	=====	=====
2,4-D	1	14.26	14.25	14.39	18.63	
	2	17.06	17.00	17.14	2.602	616.0
2,4,5-TP (SILVEX)	1	16.78	16.70	16.84	1.082	
	2	18.48	18.44	18.58	1.643	51.8
~~2,4,5-T~~	~~1~~	~~17.87~~	~~17.82~~	~~17.96~~	~~1.349~~	
	2	19.18	19.09	19.23	0.9580	40.8
DALAPON	1	3.68	3.66	3.80	138.7	
	2	4.65	4.59	4.73	496.2	257.8
DICHLOROPROP	1	12.85	12.74	12.88	6.572	
	2	15.79	15.67	15.81	0.8724	653.3
MCPA	1	11.97	11.91	12.05	90.83	
	2	14.47	14.38	14.52	741.4	716.2
MCPP	1	11.05	10.95	11.09	1604	
	2	13.38	13.37	13.51	745.3	115.2
PENTACHLOROPHENOL	1	15.55	15.47	15.61	0.7695	
	2	17.31	17.27	17.41	0.2035	278.1

663 566

**HERBICIDE
CALIBRATION DATA**

Report Date : 06-Jul-2000 11:14

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663 567

STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gcl.i\4050.b\LONGH.m
Quant Method : ESTD Target Version : 4.04
Last Update : 06-Jul-2000 11:13 Number of Cpnds : 12
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
-----	-----
Initial:Start Threshold	3608.000000
Initial:End Threshold	1804.000000
Initial:Area Threshold	36080.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	10.000000
Initial:Negative Peaks	ON
Initial:Tension	0.200000

Compound	RT	RT Window	RF
1 DALAPON	3.730	3.660-3.800	9.22e+007
\$ 2 DCAA	10.573	10.503-10.643	2.95e+008
3 MCPP	11.015	10.945-11.085	5.15e+005
4 DICAMBA	11.190	11.120-11.260	2.13e+008
5 MCPA	11.980	11.910-12.050	5.66e+005
6 DICHLOROPROP	12.808	12.738-12.878	4.37e+007
7 2,4-D	14.314	14.244-14.384	3.13e+008
8 PENTACHLOROPHENOL	15.544	15.474-15.614	5.21e+008
9 2,4,5-TP (SILVEX)	16.769	16.699-16.839	1.66e+009
10 2,4,5-T	17.889	17.819-17.959	1.12e+009
11 DILOSEB	18.069	17.999-18.139	1.44e+009
~12 2,4-DB	18.567	18.497-18.637	1.56e+008

663 568

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Report Date : 12-Jul-2000 08:53

STL-PITTSBURGH

COMPOUND LISTING

Method file : /var/chem/gc1.i/4050.b/LONGH.m
Quant Method : ESTD
Last Update : 12-Jul-2000 08:53
Data Type : GC MULTI COMP

Target Version : 3.40
Number of Cpnds : 12

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	3608.000000
Initial:End Threshold	1804.000000
Initial:Area Threshold	36080.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	10.000000
Initial:Negative Peaks	ON
Initial:Tension	0.200000

Compound	RT	RT Window	RF
1 DALAPON	3.733	3.663-3.803	9.221e+07
\$ 2 DCAA	10.579	10.509-10.649	2.948e+08
3 MCPP	11.016	10.946-11.086	5.153e+05
4 DICAMBA	11.189	11.119-11.259	2.126e+08
5 MCPA	11.978	11.908-12.048	5.662e+05
6 DICHLOROPROP	12.809	12.739-12.879	4.369e+07
7 2,4-D	14.317	14.247-14.387	3.125e+08
8 PENTACHLOROPHENOL	15.539	15.469-15.609	5.212e+08
9 2,4,5-TP (SILVEX)	16.769	16.699-16.839	1.660e+09
10 2,4,5-T	17.893	17.823-17.963	1.124e+09
11 DINOSEB	18.065	17.995-18.135	1.443e+09
12 2,4-DB	18.568	18.498-18.638	1.561e+08

Report Date : 06-Jul-2000 11:15

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663 569

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 05-JUL-2000 17:04
End Cal Date : 05-JUL-2000 19:00
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\QPITPA02\D\chem\gc1.i\4050.b\LONGH.m
Cal Date : 06-Jul-2000 11:13 matkol
Curve Type : Average

Calibration File Names:

Level 1: \\QPITPA02\D\chem\gc1.i\4050.b\A-A40098.D
Level 2: \\QPITPA02\D\chem\gc1.i\4050.b\A-A40099.D
Level 3: \\QPITPA02\D\chem\gc1.i\4050.b\A-A40100.D
Level 4: \\QPITPA02\D\chem\gc1.i\4050.b\A-A40101.D
Level 5: \\QPITPA02\D\chem\gc1.i\4050.b\A-A40102.D

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
1 DALAPON	98270455	97556273	92291868	88295501	84636506	92210120	6.370
3 MCPP	696991	657523	532588	399332	289843	515255	33.308
4 DICAMBA	196612358	214630939	213770541	218849224	219328265	212638266	4.370
5 MCPA	741058	721022	577404	449048	342628	566232	30.382
6 DICHLOROPROP	40824198	44917736	44642807	44816118	43254678	43691107	3.978
7 2,4-D	294346019	321759035	319446533	318263741	308760935	312515253	3.616
8 PENTACHLOROPHENOL	447095489	496934586	523093421	550800329	588253584	521235482	10.267
9 2,4,5-TP(SILVEX)	1.630e+09	1.692e+09	1.647e+09	1.657e+09	1.673e+09	1.660e+09	1.439
10 2,4,5-T	1.052e+09	1.096e+09	1.107e+09	1.152e+09	1.213e+09	1.124e+09	5.451
11 DINOSEB	1.424e+09	1.507e+09	1.469e+09	1.438e+09	1.374e+09	1.443e+09	3.451
12 2,4-DB	188356303	161309573	141246154	145209822	144572577	156138886	12.565
\$ 2 DCAA	319736338	319609012	296410035	278186471	260011306	294790632	8.856

AVE=10.3

Data File: \\QPITPA02\D\chem\gc1.i\4050.b\A-A40124.D 68901A
 Report Date: 06-Jul-2000 12:07 DBL08

663 570

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 06-JUL-2000 05:37
 Lab File ID: A-A40124.D Init. Cal. Date(s): 05-JUL-2000 05-JUL-2000
 Analysis Type: Init. Cal. Times: 17:04 19:00
 Lab Sample ID: Mherb Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc1.i\4050.b\LONGH.m

COMPOUND	RRF	RPO	MIN	%D	MAX
1 DALAPON	92210120	97504533	0.010	5.7	15.0
2 DCAA	294790632	325110153	0.010	10.3	15.0
3 MCPP	515255	546812	0.010	6.1	15.0
4 DICAMBA	212638266	235856541	0.010	10.9	15.0
5 MCPA	566232	594347	0.010	5.0	15.0
6 DICHLOROPROP	43691107	49541486	0.010	13.4	15.0
7 2,4-D	312515253	357982280	0.010	14.5	15.0
8 PENTACHLOROPHENOL	521235482	570379981	0.010	9.4	15.0
9 2,4,5-TP(SILVEX)	1.660e+09	1.804e+09	0.010	8.7	15.0
10 2,4,5-T	1.124e+09	1.235e+09	0.010	9.9	15.0
11 DINOSEB	1.443e+09	1.570e+09	0.010	8.8	15.0
12 2,4-DB	156138886	162589574	0.010	4.1	15.0

Data File: /var/chem/gc1.i/4050.b/a-a40162.d
Report Date: 12-Jul-2000 08:53

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STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: a-a40162.d
Analysis Type:
Lab Sample ID: Mherb
Quant Type: ESTD

Injection Date: 11-JUL-2000 17:12
Init. Calibration Date(s): 07/05/0 07/05/0
Init. Calibration Times: 17:04 19:00
Method File: /var/chem/gc1.i/4050.b/LONGH.m

COMPOUND	RRP	RPO	MIN	MAX
1 DALAPON	92210120.395	88835512.528	0.010	3.7 15.0
2 DCAA	294790632.303	283343372.503	0.010	3.9 15.0
3 MCPP	515255.218	485442.136	0.010	5.8 15.0
4 DICAMBA	212638265.556	195355600.000	0.010	8.1 15.0
5 MCPA	566232.071	542437.383	0.010	4.2 15.0
6 DICHLOROPROP	43691107.336	40481497.642	0.010	7.3 15.0
7 2,4-D	312515252.842	288055957.697	0.010	7.8 15.0
8 PENTACHLOROPHENOL	521235481.841	480291259.398	0.010	7.9 15.0
9 2,4,5-TP(SILVEX)	1659706652.800	1483193080.569	0.010	10.6 15.0
10 2,4,5-T	1124127089.919	973304218.009	0.010	13.4 15.0
11 DINOSIB	1442670824.263	1311203937.008	0.010	9.1 15.0
12 2,4-DB	156138886.006	120848059.172	0.010	22.6 15.0 <- NA

AVE=8.7

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Data File: /var/chem/gc1.i/4050.b/a-a40183.d

Report Date: 12-Jul-2000 09:05

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: a-a40183.d
Analysis Type:
Lab Sample ID: Mherb
Quant Type: ESTD

Injection Date: 12-JUL-2000 03:21
Init. Calibration Date(s): 07/05/0 07/05/0
Init. Calibration Times: 17:04 19:00
Method File: /var/chem/gc1.i/4050.b/LONGH.m

COMPOUND	RRF	RFO	MIN	MAX
1 DALAPON	92210120.395	95335740.319	0.010	-3.4 15.0
2 DCAA	294790632.303	319443513.514	0.010	-8.4 15.0
3 MCPP	515255.218	526546.362	0.010	-2.2 15.0
4 DICAMBA	212638265.556	225205600.000	0.010	-5.9 15.0
5 MCPA	566232.071	578264.603	0.010	-2.1 15.0
6 DICHLOROPROP	43691107.336	46423573.113	0.010	-6.3 15.0
7 2,4-D	312515252.842	339222126.910	0.010	-8.5 15.0
8 PENTACHLOROPHENOL	521235481.841	540890413.534	0.010	-3.8 15.0
9 2,4,5-TP (SILVEX)	1659706652.800	1768727203.791	0.010	-6.6 15.0
10 2,4,5-T	1124127089.919	1177981895.735	0.010	-4.8 15.0
11 DINOSEB	1442670824.263	1683082913.386	0.010	-16.7 15.0
12 2,4-DE	156138886.006	156962887.574	0.010	-0.5 15.0

AVE=5.8

8D
PESTICIDE ANALYTICAL SEQUENCE

663 573

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0F300207

GC Column: DB608

ID: 0.53

(mm)

Init. Calib. Date(s): 07/05/00 07/05/00

Instrument ID: GC1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 10.58					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
=====	=====	=====	=====	=====	=====
01	LHERB	07/05/00	1704	10.58	
02	MLHERB	07/05/00	1733	10.58	
03	MHERB	07/05/00	1802	10.57	
04	MHHERB	07/05/00	1831	10.57	
05	HHERB	07/05/00	1900	10.57	
06	2NDHERB	07/05/00	1929	10.58	
07	PBLKW	DFN8K101	07/06/00 0019	10.59	
08	LCSW	DFN8K102	07/06/00 0048	10.57	
09	LCDW	DFN8K103	07/06/00 0117	10.58	
10		MHERB	07/06/00 0537	10.57	
11		MHERB	07/11/00 1712	10.58	
12	DF/SI/0181/I	DFKQ3112	07/11/00 1741	10.58	
13		MHERB	07/12/00 0321	10.58	
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

S1 = DCAA QC LIMITS
(+/- 0.07 MINUTES)

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

663 574

STL Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\4050.b\A-A40098.D
 Lab Smp Id: Lherb
 Inj Date : 05-JUL-2000 17:04
 Operator : 01797
 Smp Info : Lherb,4050.b
 Misc Info : 190-94-1
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\4050.b\LONGH.m
 Meth Date : 06-Jul-2000 11:34 matkol
 Cal Date : 05-JUL-2000 17:04
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A40098.D
 Calibration Sample, Level: 1
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	3.732	3.730	0.002	1080975	0.01100	0.01134
\$ 2 DCAA	10.579	10.572	0.007	6810384	0.02130	0.02211
3 MCPP	11.018	11.015	0.003	1477620	2.12000	2.403
4 DICAMBA	11.193	11.190	0.003	2084091	0.01060	0.01016
5 MCPA	11.986	11.980	0.006	1585865	2.14000	2.406
6 DICHLOROPROP	12.815	12.807	0.008	865473	0.02120	0.02025
7 2,4-D	14.325	14.313	0.012	6210701	0.02110	0.02024
8 PENTACHLOROPHENOL	15.553	15.543	0.010	1189274	0.00266	0.002452
9 2,4,5-TP(SILVEX)	16.773	16.768	0.005	8557808	0.00525	0.005223
10 2,4,5-T	17.897	17.888	0.009	5543495	0.00527	0.005135
11 DINOSBB	18.071	18.068	0.003	4515402	0.00317	0.003121
12 2,4-DB	18.569	18.566	0.003	3974318	0.02110	0.02412

Data File: \\NPITPA02\chem\gol.i\4050.b\A-A40098.D

Date : 05-JUL-2000 17:04

Client ID:

Sample Info: Lherb,4050.b

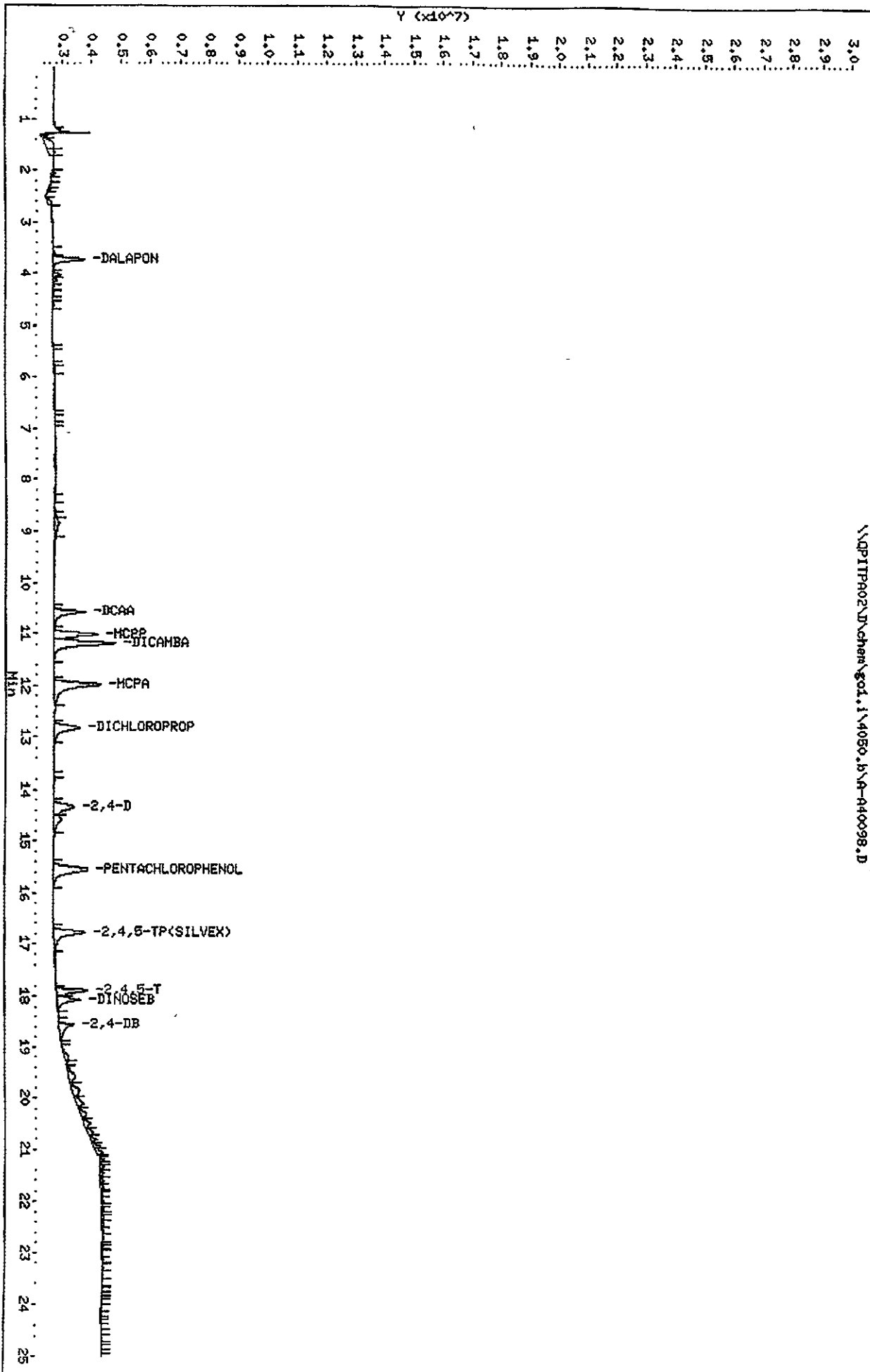
Column Phase: DB608

Instrument: gol.i

Operator: 01797

Column diameter: 0.53

\\NPITPA02\chem\gol.i\4050.b\A-A40098.D



663 575

STL Pittsburgh

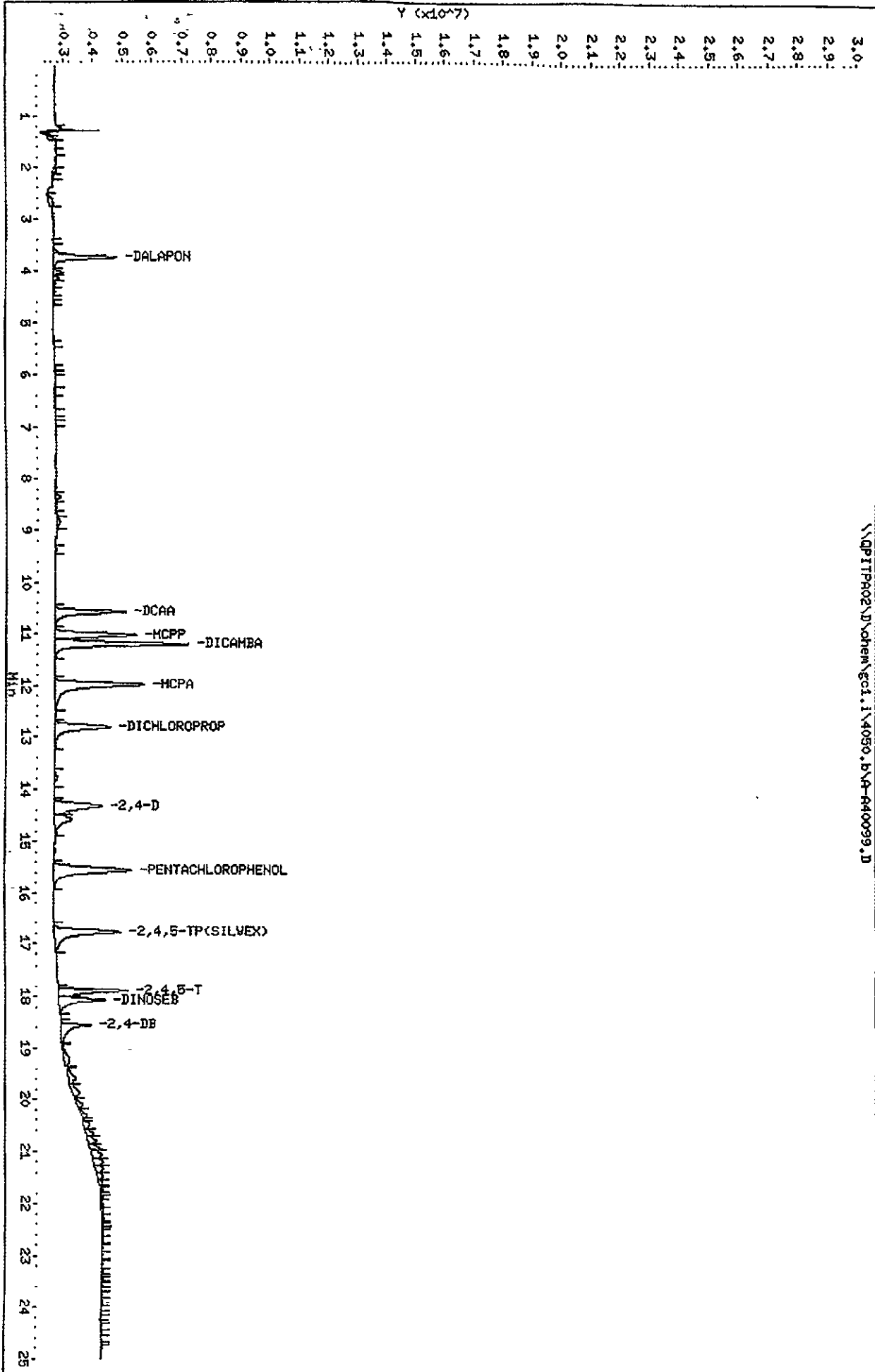
Data file : \\QPITPA02\D\chem\gc1.i\4050.b\A-A40099.D
Lab Smp Id: MLherb
Inj Date : 05-JUL-2000 17:33
Operator : 01797
Smp Info : MLherb,4050.b
Misc Info : 190-94-2
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050.b\LONGH.m
Meth Date : 06-Jul-2000 11:34 matkol
Cal Date : 05-JUL-2000 17:04
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A40098.D
Calibration Sample, Level: 2
Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	3.733	3.730	0.003	2146238	0.02200	0.02235
\$ 2 DCAA	10.579	10.572	0.007	13583383	0.04250	0.04355
3 MCPP	11.016	11.015	0.001	2801046	4.26000	4.453
4 DICAMBA	11.191	11.190	0.001	4571639	0.02130	0.02194
5 MCPA	11.979	11.980	-0.001	3085973	4.28000	4.539
6 DICHLOROPROP	12.813	12.807	0.006	1904512	0.04240	0.04382
7 2,4-D	14.324	14.313	0.011	13674759	0.04250	0.04385
8 PENTACHLOROPHENOL	15.545	15.543	0.002	2643692	0.00532	0.005406
9 2,4,5-TP(SILVEX)	16.771	16.768	0.003	17767444	0.01050	0.01073
10 2,4,5-T	17.893	17.888	0.005	11509922	0.01050	0.01061
11 DINOSEB	18.067	18.068	-0.001	9571984	0.00635	0.006525
12 2,4-DB	18.566	18.566	0.000	6807264	0.04220	0.04160

Data File: \\GPITP02\chem\gc1.i\4050.b\A-A40099.D
Date: 05-JUL-2000 17:33
Client ID:
Sample Info: Hlherb,4050.b
Column phase: JB608

Instrument: gc1.i
Operator: Q1797
Column diameter: 0.53



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Data file : \\QPITPA02\D\chem\gc1.i\4050.b\A-A40100.D
Lab Smp Id: Mherb
Inj Date : 05-JUL-2000 18:02
Operator : 01797
Smp Info : Mherb,4050.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050.b\LONGH.m
Meth Date : 06-Jul-2000 11:34 matkol
Cal Date : 05-JUL-2000 18:02
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

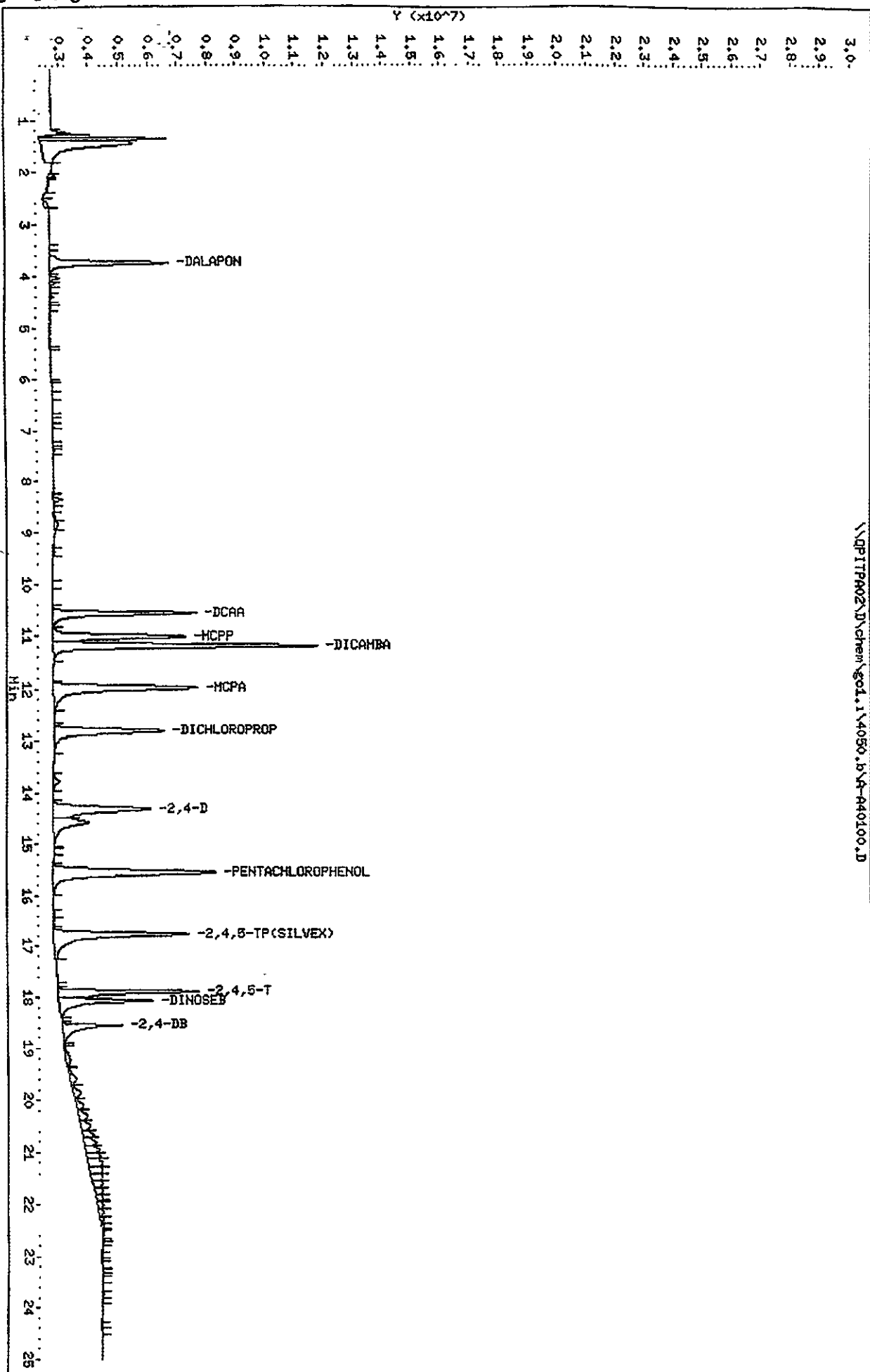
Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A40100.D
Calibration Sample, Level: 3
Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	3.730	3.730	0.000	4051613	0.04390	0.04390
2 DCAA	10.572	10.572	0.000	25224494	0.08510	0.08510
3 MCPP	11.015	11.015	0.000	4537648	8.52000	8.520
4 DICAMBA	11.190	11.190	0.000	9085248	0.04250	0.04250
5 MCPA	11.980	11.980	0.000	4942581	8.56000	8.560
6 DICHLOROPROP	12.807	12.807	0.000	3785710	0.08480	0.08480
7 2,4-D	14.313	14.313	0.000	27184900	0.08510	0.08510
8 PENTACHLOROPHENOL	15.543	15.543	0.000	5565714	0.01064	0.01064
9 2,4,5-TP(SILVEX)	16.768	16.768	0.000	34744479	0.02110	0.02110
10 2,4,5-T	17.888	17.888	0.000	23362700	0.02110	0.02110
11 DINOSEB	18.068	18.068	0.000	18659659	0.01270	0.01270
12 2,4-DB	18.566	18.566	0.000	11935300	0.08450	0.08450

Data File: \\QPITPA02\chem\gcl.1\4050.b\A-A40100.D
Date: 05-JUL-2000 18:02
Client ID:
Sample Info: Herb,4050.b

Column phase: DB608

Instrument: gcl.1
Operator: 01797
Column diameter: 0.53



STL Pittsburgh

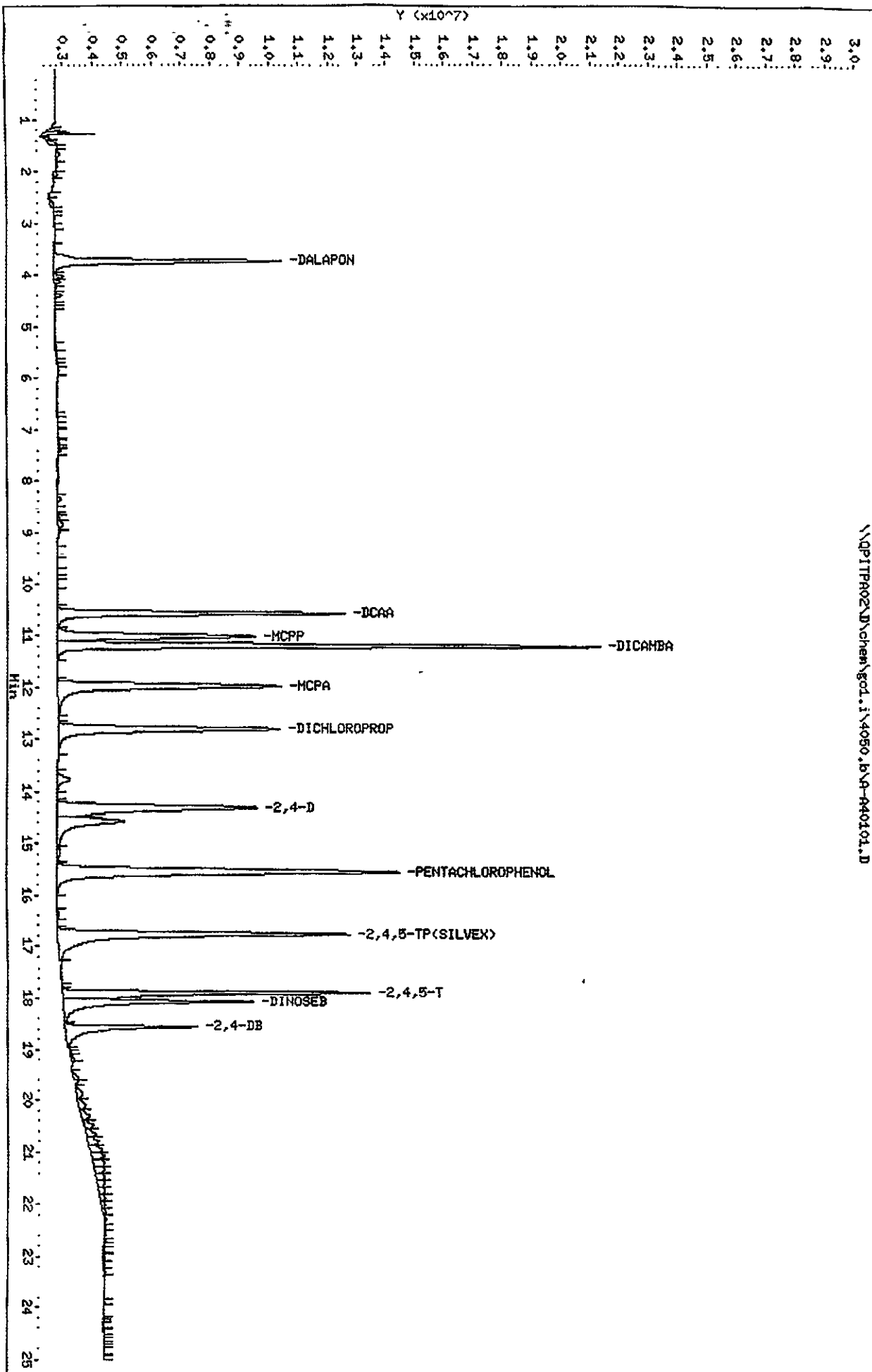
Data file : \\QPITPA02\D\chem\gc1.i\4050.b\A-A40101.D
Lab Smp Id: MHherb
Inj Date : 05-JUL-2000 18:31
Operator : 01797
Smp Info : MHherb,4050.b
Misc Info : 190-94-4
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050.b\LONGH.m
Meth Date : 06-Jul-2000 11:34 matkol
Cal Date : 05-JUL-2000 18:31
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A40101.D
Calibration Sample, Level: 4
Compound Sublist: all.sub

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	3.730	3.730	0.000	7752345	0.08780	0.08238
\$ 2 DCAA	10.572	10.572	0.000	47291700	0.17000	0.1558
3 MCPP	11.015	11.015	0.000	6788647	17.0000	11.88
4 DICAMBA	11.189	11.190	-0.001	18624069	0.08510	0.08828
5 MCPA	11.977	11.980	-0.003	7678724	17.1000	12.34
6 DICHLOROPROP	12.805	12.807	-0.002	7618740	0.17000	0.1739
7 2,4-D	14.315	14.313	0.002	54104836	0.17000	0.1726
8 PENTACHLOROPHENOL	15.540	15.543	-0.003	11721031	0.02128	0.02323
9 2,4,5-TP(SILVEX)	16.764	16.768	-0.004	69751220	0.04210	0.04211
10 2,4,5-T	17.890	17.888	0.002	48613867	0.04220	0.04412
11 DINOSEB	18.065	18.068	-0.003	36521564	0.02540	0.02502
12 2,4-DB	18.565	18.566	-0.001	24540460	0.16900	0.1543

Date File: \\QPITPRO2\chem\gcd.i\4050.b\A-A40101.D
Date: 05-JUL-2000 18:31
Client ID:
Sample Info: MHherb,4050.b
Column phase: DB608

Instrument: gcd.i
Operator: 01797
Column diameter: 0.53



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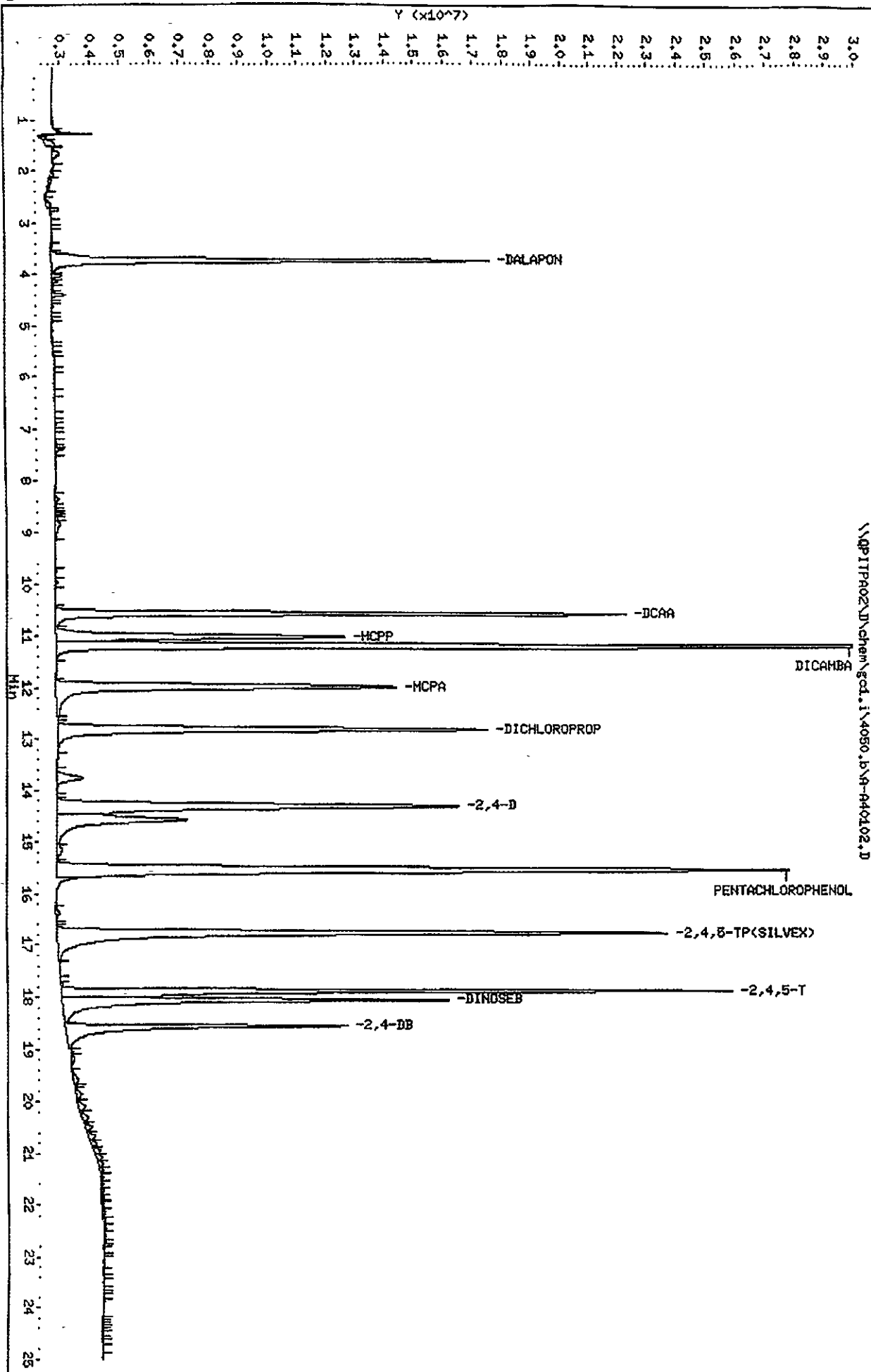
Data file : \\QPITPA02\D\chem\gc1.i\4050.b\A-A40102.D
Lab Smp Id: Hherb
Inj Date : 05-JUL-2000 19:00
Operator : 01797
Smp Info : Hherb,4050.b
Misc Info : 190-94-5
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050.b\LONGH.m
Meth Date : 06-Jul-2000 11:34 matkol
Cal Date : 05-JUL-2000 19:00
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A40102.D
Calibration Sample, Level: 5
Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	3.728	3.730	-0.002	14896025	0.17600	0.1615
\$ 2 DCAA	10.571	10.572	-0.001	88403844	0.34000	0.2999
3 MCPP	11.014	11.015	-0.001	9883647	34.1000	19.18
4 DICAMBA	11.185	11.190	-0.005	37285805	0.17000	0.1753
5 MCPA	11.973	11.980	-0.007	11649342	34.0000	20.57
6 DICHLOROPROP	12.804	12.807	-0.003	14663336	0.33900	0.3356
7 2,4-D	14.305	14.313	-0.008	104978718	0.34000	0.3359
8 PENTACHLOROPHENOL	15.536	15.543	-0.007	25030190	0.04255	0.04802
9 2,4,5-TP(SILVEX)	16.764	16.768	-0.004	140521981	0.08400	0.08467
10 2,4,5-T	17.888	17.888	0.000	102405177	0.08440	0.09110
11 DINOSBB	18.065	18.068	-0.003	69820368	0.05080	0.04840
12 2,4-DB	18.564	18.566	-0.002	48865531	0.33800	0.3130

Data File: \\QPITPRO2\N\chem\col.1\4050.b\A-A40102.D
Date: 05-JUL-2000 19:00
Client ID:
Sample Info: Herb, 4050.b
Column phase: DB608

Instrument: col.1
Operator: 01797
Column diameter: 0.53



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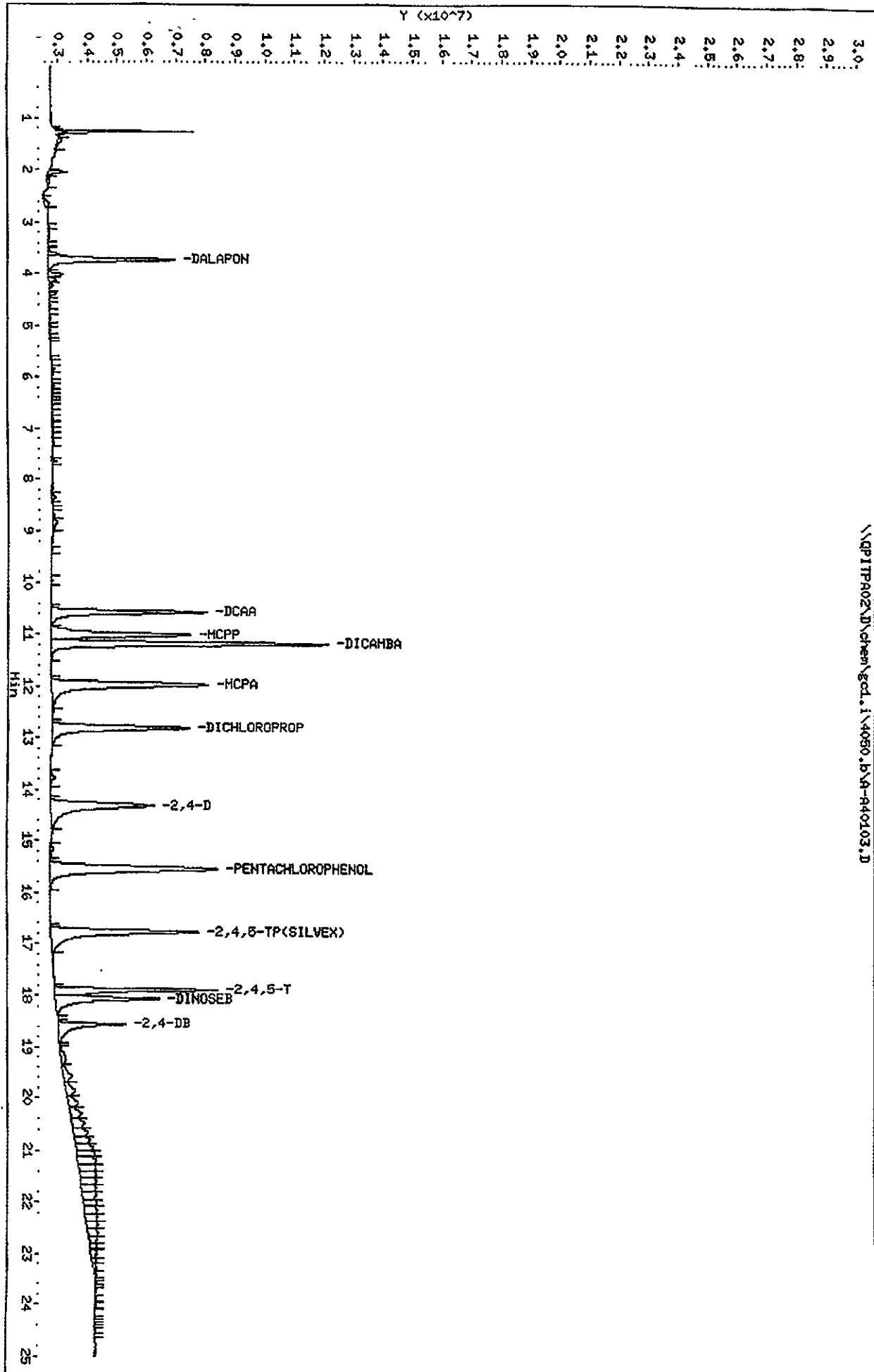
Data file : \\QPITPA02\D\chem\gc1.i\4050.b\A-A40103.D
Lab Smp Id: 2ndherb
Inj Date : 05-JUL-2000 19:29
Operator : 01797
Smp Info : 2ndherb,4050.b
Misc Info : 190-80-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050.b\LONGH.m
Meth Date : 06-Jul-2000 11:34 matkol
Cal Date : 05-JUL-2000 19:00
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A40102.D
Continuing Calibration Sample
Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
1 DALAPON	3.732	3.730	0.002	4279844	0.04390	0.04641
\$ 2 DCAA	10.577	10.572	0.005	27049920	0.08510	0.09176
3 MCPP	11.017	11.015	0.002	4767615	8.52000	9.253
4 DICAMBA	11.189	11.190	-0.001	9389183	0.04250	0.04416
5 MCPA	11.979	11.980	-0.001	5341264	8.56000	9.433
6 DICHLOROPROP	12.809	12.807	0.002	4672055	0.08480	0.1069
7 2,4-D	14.317	14.313	0.004	31368997	0.08510	0.1004
8 PENTACHLOROPHENOL	15.540	15.543	-0.003	5672360	0.01064	0.01088
9 2,4,5-TP(SILVEX)	16.765	16.768	-0.003	35526127	0.02110	0.02140
10 2,4,5-T	17.889	17.888	0.001	25678978	0.02110	0.02284
11 DINOSEB	18.066	18.068	-0.002	20273983	0.01270	0.01405
12 2,4-DB	18.565	18.566	-0.001	12931988	0.08450	0.08282

Data File: \\QP1TPA02\N\chem\gcd.i\4050.b\4-940103.D
Date: 05-JUL-2000 19:29
Client ID:
Sample Info: 2ndherb,4050.b
Column Phase: DB608

Instrument: gcd.i
Operator: 01797
Column diameter: 0.53



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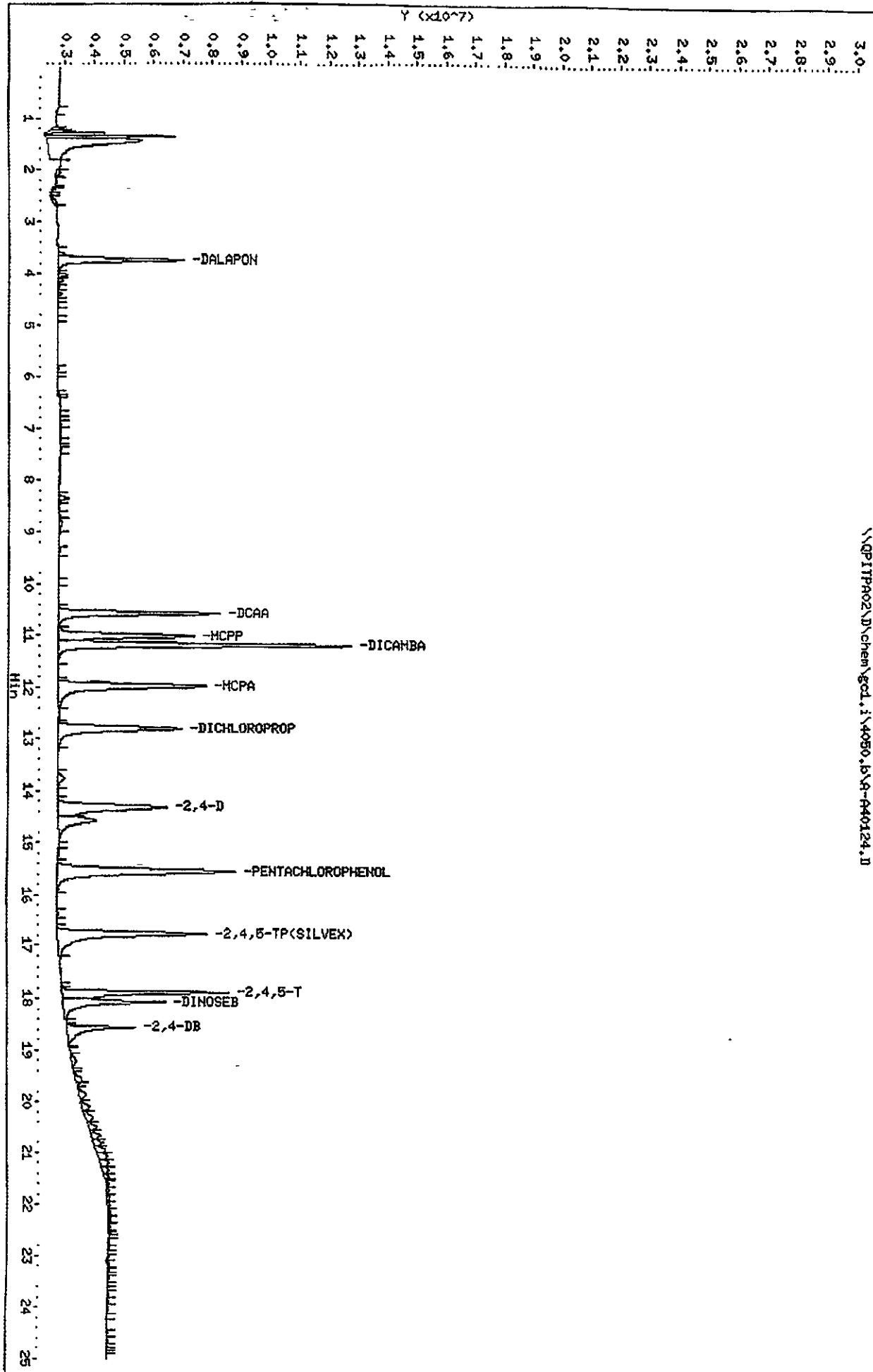
Data file : \\QPITPA02\D\chem\gc1.i\4050.b\A-A40124.D
Lab Smp Id: Mherb
Inj Date : 06-JUL-2000 05:37
Operator : 01797
Smp Info : Mherb,4050.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050.b\LONGH.m
Meth Date : 06-Jul-2000 12:07 matkol
Cal Date : 05-JUL-2000 19:00
Als bottle: 29
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A40102.D
Continuing Calibration Sample
Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	3.731	3.730	0.001	4280449	0.04390	0.04642
\$ 2 DCAA	10.574	10.572	0.002	27666874	0.08510	0.09385
3 MCPP . . .	11.011	11.015	-0.004	4658837	8.52000	9.042
4 DICAMBA	11.187	11.190	-0.003	10023903	0.04250	0.04714
5 MCPA	11.977	11.980	-0.003	5087608	8.56000	8.985
6 DICHLOROPROP	12.806	12.807	-0.001	4201118	0.08480	0.09615
7 2,4-D	14.308	14.313	-0.005	30464292	0.08510	0.09748
8 PENTACHLOROPHENOL	15.538	15.543	-0.005	6068843	0.01064	0.01164
9 2,4,5-TP(SILVEX)	16.765	16.768	-0.003	38055598	0.02110	0.02293
10 2,4,5-T	17.889	17.888	0.001	26056954	0.02110	0.02318
11 DINOSEB	18.067	18.068	-0.001	19934382	0.01270	0.01382
12 2,4-DB	18.566	18.566	0.000	13738819	0.08450	0.08799

Data File: \\NPITPA02\chem\gc1.i\4050.b\4-040124.D
Date: 06-JUL-2000 05:37
Client ID:
Sample Info: Herb, 4050.b
Column Phase: DB608

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



Data File: /var/chem/gc1.i/4050.b/a-a40162.d
 Report Date: 12-Jul-2000 09:07

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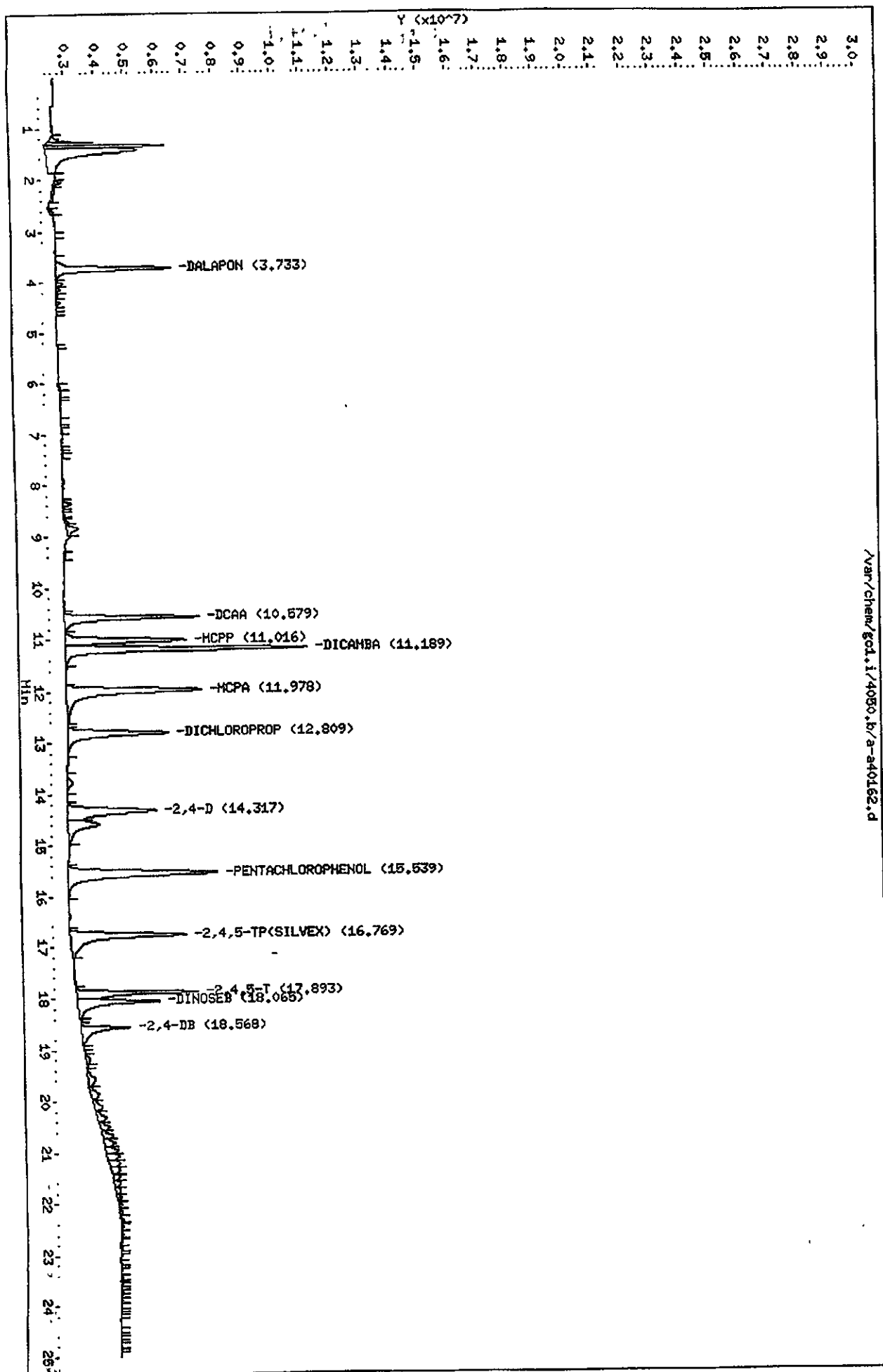
Data file : /var/chem/gc1.i/4050.b/a-a40162.d
 Lab Smp Id: Mherb
 Inj Date : 11-JUL-2000 17:12
 Operator : 01797
 Smp Info : Mherb,4050.b
 Misc Info : 190-94-3
 Comment :
 Method : /var/chem/gc1.i/4050.b/LONGH.m
 Meth Date : 12-Jul-2000 09:05 g
 Cal Date : 05-JUL-2000 19:00
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: a-a40102.d
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	3.733	3.733	0.000	3899879	0.04390	0.04229
\$ 2 DCAA	10.579	10.579	0.000	24112521	0.08510	0.08180
3 MCPP	11.016	11.016	0.000	4135967	8.52000	8.027
4 DICAMBA	11.189	11.189	0.000	8302613	0.04250	0.03904
5 MCPA	11.978	11.978	0.000	4643264	8.56000	8.200
6 DICHLOROPROP	12.809	12.809	0.000	3432831	0.08480	0.07857
7 2,4-D	14.317	14.317	0.000	24513562	0.08510	0.07844
8 PENTACHLOROPHENOL	15.539	15.539	0.000	5110299	0.01064	0.009804
9 2,4,5-TP (SILVEX)	16.769	16.769	0.000	31295374	0.02110	0.01886
10 2,4,5-T	17.893	17.893	0.000	20536719	0.02110	0.01827
11 DINOSEB	18.065	18.065	0.000	16652290	0.01270	0.01154
12 2,4-DB	18.568	18.568	0.000	10211661	0.08450	0.06540

Data File: /var/chem/gc1.i/4050.b/a-a40162.d
Date: 11-JUL-2000 17:12
Client ID:
Sample Info: Herb, 4050.b
Column Phase: DB608

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



Data File: /var/chem/gc1.i/4050.b/a-a40183.d
Report Date: 12-Jul-2000 09:09

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Data file : /var/chem/gc1.i/4050.b/a-a40183.d
Lab Smp Id: Mherb
Inj Date : 12-JUL-2000 03:21
Operator : 01797
Smp Info : Mherb,4050.b
Misc Info : 190-94-3
Comment :
Method : /var/chem/gc1.i/4050.b/LONGH.m
Meth Date : 12-Jul-2000 09:05 g
Cal Date : 05-JUL-2000 19:00
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.40

Inst ID: gc1.i
Quant Type: ESTD
Cal File: a-a40102.d
Continuing Calibration Sample
Compound Sublist: all.sub

AMOUNTS						
Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
					(ng)	(ng)
1 DALAPON	3.731	3.733	-0.002	4185239	0.04390	0.04539
2 DCAA	10.575	10.579	-0.004	27184643	0.08510	0.09222
3 MCPP	11.015	11.016	-0.001	4486175	8.52000	8.707
4 DICAMBA	11.189	11.189	0.000	9571238	0.04250	0.04501
5 MCPA	11.977	11.978	-0.001	4949945	8.56000	8.742
6 DICHLOROPROP	12.804	12.809	-0.005	3936719	0.08480	0.09010
7 2,4-D	14.319	14.317	0.002	28867803	0.08510	0.09237
8 PENTACHLOROPHENOL	15.544	15.539	0.005	5755074	0.01064	0.01104
9 2,4,5-TP(SILVEX)	16.772	16.769	0.003	37320144	0.02110	0.02248
10 2,4,5-T	17.892	17.893	-0.001	24855418	0.02110	0.02211
11 DINOSEB	18.065	18.065	0.000	21375153	0.01270	0.01482
12 2,4-DB	18.569	18.568	0.001	13263364	0.08450	0.08494

Data File: /var/chem/gc1.i/4050.b/a-a40183.d

Date: 12-JUL-2000 03:21

Client ID:

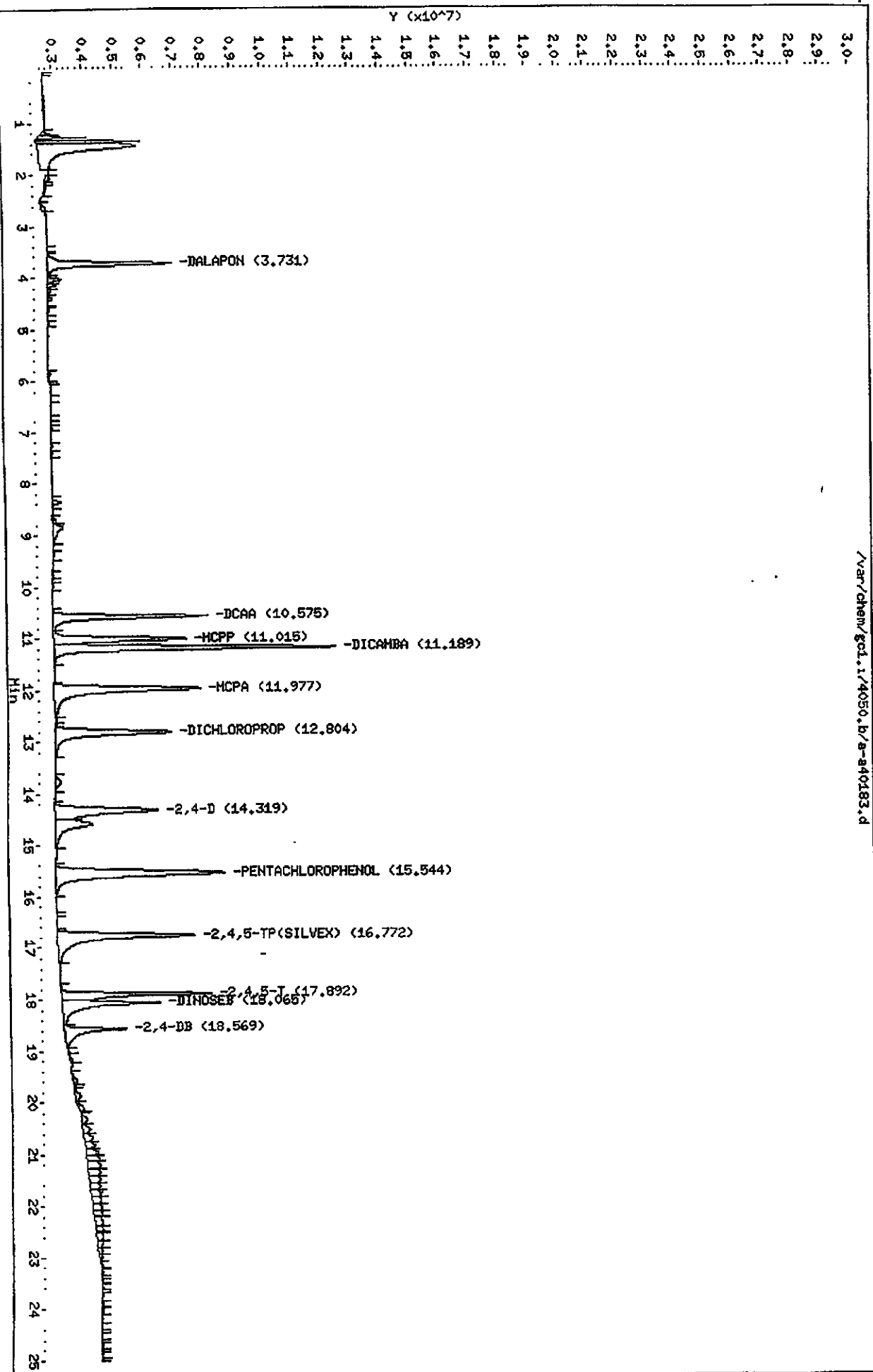
Sample Info: Herb, 4050.b

Column phase: DB608

Instrument: gc1.i

Operator: 01797

Column diameter: 0.53



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Report Date : 07-Jul-2000 09:52

STL Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
Quant Method : ESTD Target Version : 4.04
Last Update : 07-Jul-2000 09:51 Number of Cpnds : 12
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events

Values

Initial:Start Threshold 3608.000000
Initial:End Threshold 1804.000000
Initial:Area Threshold 36080.000000
Initial:P-P Resolution 1.000000
Initial:Bunch Factor 10.000000
Initial:Negative Peaks ON
Initial:Tension 0.200000

Compound	RT	RT Window	RF
1 DALAPON	4.655	4.585-4.725	1.39e+008
\$ 2 DCAA	12.253	12.183-12.323	3.84e+008
3 DICAMBA	12.940	12.870-13.010	3.06e+008
4 MCPP	13.434	13.364-13.504	2.57e+005
5 MCPA	14.437	14.367-14.507	3.44e+005
6 DICHLOROPROP	15.739	15.669-15.809	6.10e+007
7 2,4-D	17.065	16.995-17.135	8.20e+007
8 PENTACHLOROPHENOL	17.342	17.272-17.412	1.43e+009
9 2,4,5-TP (SILVEX)	18.509	18.439-18.579	7.32e+008
10 2,4,5-T	19.164	19.094-19.234	5.83e+008
11 2,4-DB	19.684	19.614-19.754	6.81e+007
12 DINOSEB	20.343	20.273-20.413	6.87e+008

Report Date : 12-Jul-2000 12:09

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COMPOUND LISTING

Method file : /var/chem/gc1.i/4050A.b/LONGHB.m
Quant Method : ESTD Target Version : 3.40
Last Update : 12-Jul-2000 12:09 Number of Cpnds : 12
Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events	Values
Initial:Start Threshold	3608.000000
Initial:End Threshold	1804.000000
Initial:Area Threshold	36080.000000
Initial:P-P Resolution	1.000000
Initial:Bunch Factor	10.000000
Initial:Negative Peaks	ON
Initial:Tension	0.200000

Compound	RT	RT Window	RF
1 DALAPON	4.657	4.587-4.727	1.391e+08
\$ 2 DCAA	12.257	12.187-12.327	3.841e+08
3 DICAMBA	12.944	12.874-13.014	3.062e+08
4 MCPPP	13.440	13.370-13.510	2.575e+05
5 MCPA	14.446	14.376-14.516	3.438e+05
6 DICHLOROPROP	15.744	15.674-15.814	6.098e+07
7 2,4-D	17.069	16.999-17.139	8.205e+07
8 PENTACHLOROPHENOL	17.345	17.275-17.415	1.432e+09
9 2,4,5-TP (SILVEX)	18.510	18.440-18.580	7.319e+08
10 2,4,5-T	19.164	19.094-19.234	5.830e+08
11 2,4-DB	19.683	19.613-19.753	6.808e+07
12 DINOSEB	20.344	20.274-20.414	6.870e+08

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Report Date : 06-Jul-2000 08:37

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INITIAL CALIBRATION DATA

Start Cal Date : 05-JUL-2000 17:33
 End Cal Date : 05-JUL-2000 19:29
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
 Cal Date : 06-Jul-2000 08:37 matkol
 Curve Type : Average

Calibration File Names:

Level 1: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40088.D
 Level 2: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40089.D
 Level 3: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40090.D
 Level 4: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40091.D
 Level 5: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40092.D

Compound	0 00500	0.01000	0.02500	0 05000	0.10000	RRF	% RSD
1 DALAPON	152122364	147606864	136342437	131515968	127984028	139114332	7.459
3 DICAMBA	309582358	312138545	310162565	301861939	297197606	306188603	2.080
4 MCPP	320967	287314	254722	221860	202629	257499	18.630
5 MCPA	413884	388733	338158	297881	280335	343798	16.645
6 DICHLOROPROP	64270425	63583868	61872488	58672282	56479103	60975633	5.438
7 2,4-D	74413886	79572165	83291011	85292000	87658797	82045572	6.332
8 PENTACHLOROPHENOL	1.376e+09	1.417e+09	1.450e+09	1.455e+09	1.464e+09	1.432e+09	2.527
9 2,4,5-TP(SILVEX)	676064190	711325524	736532559	755652874	779913786	731897787	5.479
10 2,4,5-T	478111195	538373524	576902180	630031730	691617133	583007152	14.103
11 2,4-DB	54077820	60990024	65942639	73975278	85415666	68080285	17.781
12 DINOSEB	683692744	694501417	683372520	677221535	696063465	686970336	1.169
\$ 2 DCAA	431908545	414136894	386079495	353961459	334469353	384111149	10.546

Data File: \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40160.D
 Report Date: 07-Jul-2000 09:50

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 07-JUL-2000 09:09
 Lab File ID: A-B40160.D Init. Cal. Date(s): 05-JUL-2000 06-JUL-2000
 Analysis Type: Init. Cal. Times: 17:33 15:39
 Lab Sample ID: Mherb Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m

COMPOUND	RRF	RFO	MIN	MAX
RRF	RFO	RRF	%D	%D
1 DALAPON	139114332	134202392	0.010	-3.5 15.0
2 DCAA	384111149	376394665	0.010	-2.0 15.0
3 DICAMBA	306188603	301726729	0.010	-1.5 15.0
4 MCPP	257499	255317	0.010	-0.8 15.0
5 MCPA	343798	336874	0.010	-2.0 15.0
6 DICHLOROPROP	60975633	59707630	0.010	-2.1 15.0
7 2,4-D	82045572	81146416	0.010	-1.1 15.0
8 PENTACHLOROPHENOL	1.432e+09	1.405e+09	0.010	-1.9 15.0
9 2,4,5-TP(SILVEX)	731897787	699651659	0.010	-4.4 15.0
10 2,4,5-T	583007152	558433412	0.010	-4.2 15.0
11 2,4-DB	68080285	64292899	0.010	-5.6 15.0
12 DINOSEB	686970336	652320709	0.010	-5.0 15.0

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Data File: /var/chem/gc1.i/4050A.b/a-b40180.d
 Report Date: 10-Jul-2000 15:22

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
 Lab File ID: a-b40180.d
 Analysis Type:
 Lab Sample ID: Mherb
 Quant Type: ESTD

Injection Date: 07-JUL-2000 18:46
 Init. Calibration Date(s): 06/22/0 07/05/0
 Init. Calibration Times: 16:34 19:29
 Method File: /var/chem/gc1.i/4050A.b/LONGHB.m

COMPOUND	RRF	RFO	MIN	MAX
RRF	RFO	RRF	%D	%D
1 DALAPON	139114332.230	140681662.870	0.010	-1.1 15.0
2 DCAA	384111149.039	394703019.976	0.010	-2.8 15.0
3 DICAMBA	306188602.515	316991576.471	0.010	-3.5 15.0
4 MCPP	257498.603	264641.432	0.010	-2.8 15.0
5 MCPA	343798.333	348292.991	0.010	-1.3 15.0
6 DICHLOROPROP	60975633.252	63143750.000	0.010	-3.6 15.0
7 2,4-D	82045571.719	86671421.857	0.010	-5.6 15.0
8 PENTACHLOROPHENOL	1432344462.737	1463141353.383	0.010	-2.2 15.0
9 2,4,5-TP(SILVEX)	731897786.670	737394218.009	0.010	-0.8 15.0
10 2,4,5-T	583007152.382	588780142.180	0.010	-1.0 15.0
11 2,4-DB	68080285.288	68435147.929	0.010	-0.5 15.0
12 DINOSBB	686970336.297	683745748.031	0.010	0.5 15.0

Data File: /var/chem/gc1.i/4050A.b/a-b40211.d
Report Date: 12-Jul-2000 12:09

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DB/B

663 596

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i
Lab File ID: a-b40211.d
Analysis Type:
Lab Sample ID: Mherb
Quant Type: ESTD

Injection Date: 11-JUL-2000 17:12
Init. Calibration Date(s): 06/22/0 07/05/0
Init. Calibration Times: 16:34 19:29
Method File: /var/chem/gc1.i/4050A.b/LONGHB.m

COMPOUND	RRF	RFO	MIN	MAX
1 DALAPON	139114332.230	136709544.419	0.010	1.7 15.0
2 DCAA	384111149.039	392083584.019	0.010	-2.1 15.0
3 DICAMBA	306188602.515	307270964.706	0.010	-0.4 15.0
4 MCPP	257498.603	250437.559	0.010	2.7 15.0
5 MCPA	343798.333	333807.126	0.010	2.9 15.0
6 DICHLOROPROP	60975633.252	60549646.226	0.010	0.7 15.0
7 2,4-D	82045571.719	81786862.515	0.010	0.3 15.0
8 PENTACHLOROPHENOL	1432344462.737	1430850000.000	0.010	0.1 15.0
9 2,4,5-TP(SILVEX)	731897786.670	720699146.919	0.010	1.5 15.0
10 2,4,5-T	583007152.382	564239715.640	0.010	3.2 15.0
11 2,4-DB	68080285.288	63646284.024	0.010	6.5 15.0
12 DINOSEB	686970336.297	668095590.551	0.010	2.7 15.0

663 597

Data File: /var/chem/gc1.i/4050A.b/a-b40232.d
Report Date: 12-Jul-2000 12:5068901B
DB1701

STL-PITTSBURGH

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 12-JUL-2000 03:21
 Lab File ID: a-b40232.d Init. Calibration Date(s): 06/22/0 07/05/0
 Analysis Type: Init. Calibration Times: 16:34 19:29
 Lab Sample ID: Mherb Method File: /var/chem/gc1.i/4050A.b/LONGHB.m
 Quant Type: ESTD

COMPOUND	RRF	RPO	MIN	MAX
RRF	RPO	RRF	%D	%D
1 DALAPON	139114332.230	138267630.979	0.010	0.6 15.0
2 DCAA	384111149.039	390593337.250	0.010	-1.7 15.0
3 DICAMBA	306188602.515	313499364.706	0.010	-2.4 15.0
4 MCPP	257498.603	259438.850	0.010	-0.8 15.0
5 MCPA	343798.333	340393.808	0.010	1.0 15.0
6 DICHLOROPROP	60975633.252	62041143.868	0.010	-1.7 15.0
7 2,4-D	82045571.719	84062444.183	0.010	-2.5 15.0
8 PENTACHLOROPHENOL	1432344462.737	1446616259.398	0.010	-1.0 15.0
9 2,4,5-TP (SILVEX)	731897786.670	727371658.768	0.010	0.6 15.0
10 2,4,5-T	583007152.382	575388672.986	0.010	1.3 15.0
11 2,4-DB	68080285.288	66642272.189	0.010	2.1 15.0
12 DINOSEB	686970336.297	683345433.071	0.010	0.5 15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

663 598

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.: 40325

SDG No.: C0F300207

GC Column: DB1701

ID: 0.53

(mm)

Init. Calib. Date(s): 06/22/00 07/05/00

Instrument ID: GC1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 12.26					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
=====	=====	=====	=====	=====	=====
01	LHERB	07/05/00	1733	12.26	
02	MLHERB	07/05/00	1802	12.26	
03	MHERB	07/05/00	1831	12.25	
04	MHHERB	07/05/00	1900	12.25	
05	HHERB	07/05/00	1929	12.25	
06	2NDHERB	07/05/00	1958	12.26	
07	MHERB	07/07/00	0909	12.25	
08	PBLKW DFN8K101	07/07/00	1300	12.30	
09	MHERB	07/07/00	1846	12.25	
10	MHERB	07/11/00	1712	12.26	
11	DF/SI/0181/I DFKQ3112	07/11/00	1810	12.27	
12	MHERB	07/12/00	0321	12.25	
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

S1 = DCAA QC LIMITS
(+/- 0.07 MINUTES)

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

663 599

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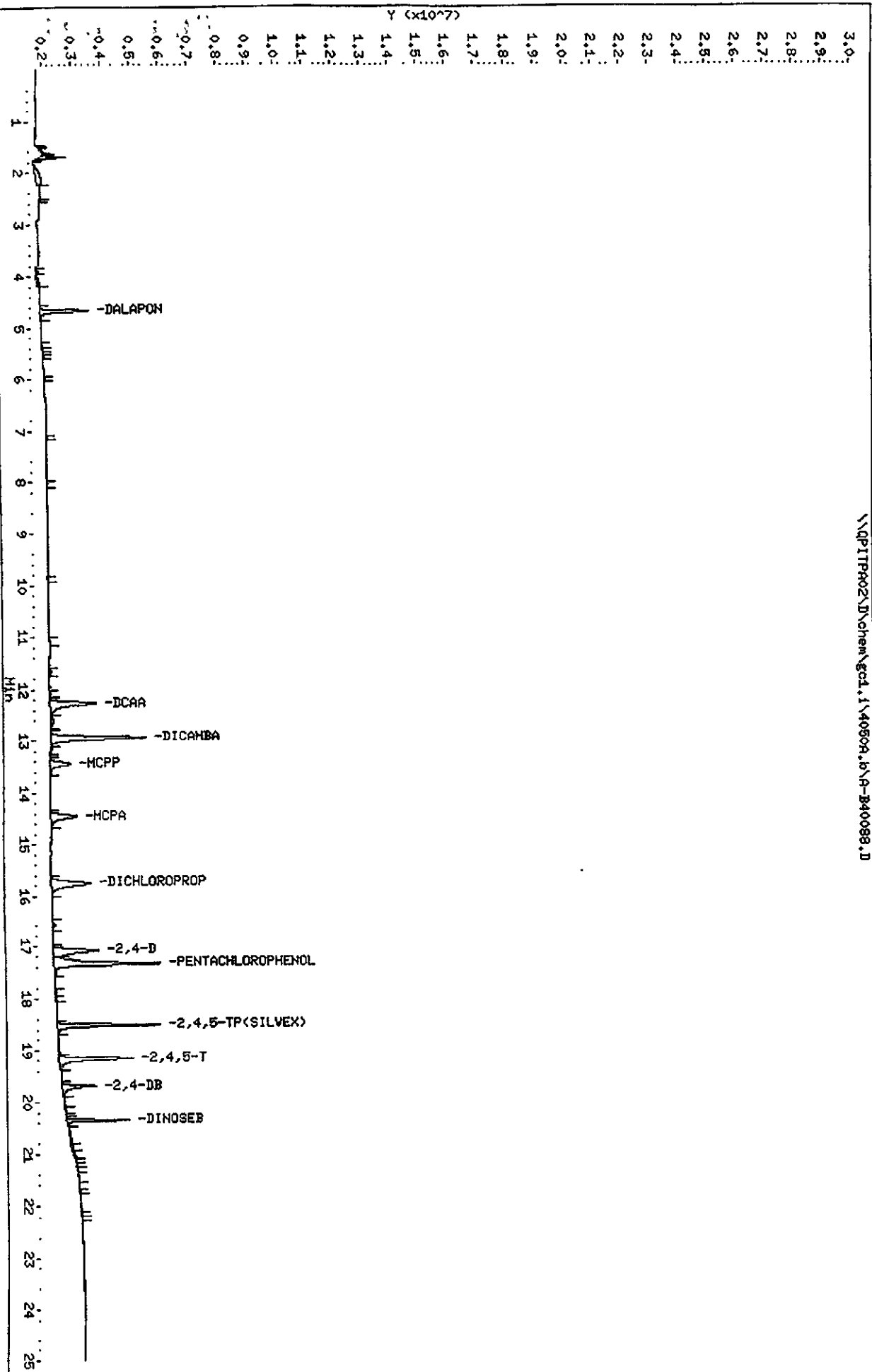
Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40088.D
Lab Smp Id: Lherb
Inj Date : 05-JUL-2000 17:33
Operator : 01797
Smp Info : Lherb,4050A.b
Misc Info : 190-94-1
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
Meth Date : 06-Jul-2000 09:17 matkol
Cal Date : 05-JUL-2000 17:33
Als bottle: 3
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-B40088.D
Calibration Sample, Level: 1
Compound Sublist: all.sub

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	4.656	4.655	0.001	1673346	0.01100	0.01203
\$ 2 DCAA	12.262	12.254	0.008	9199652	0.02130	0.02395
3 DICAMBA	12.944	12.943	0.001	3281573	0.01060	0.01072
4 MCPP	13.439	13.440	-0.001	680451	2.12000	2.642
5 MCPA	14.446	14.443	0.003	885711	2.14000	2.576
6 DICHLOROPROP	15.747	15.744	0.003	1362533	0.02120	0.02234
7 2,4-D	17.078	17.067	0.011	1570133	0.02110	0.01914
8 PENTACHLOROPHENOL	17.344	17.345	-0.001	3659952	0.00266	0.002555
9 2,4,5-TP(SILVEX)	18.511	18.510	0.001	3549337	0.00525	0.004849
10 2,4,5-T	19.168	19.163	0.005	2519646	0.00527	0.004322
11 2,4-DB	19.690	19.682	0.008	1141042	0.02110	0.01676
12 DINOSBB	20.344	20.345	-0.001	2167306	0.00317	0.003155

Data File: \\QPITP002\N\chem\ecol.1\4050A.b\A-B40088.D
Date: 05-JUL-2000 17:33
Client ID:
Sample Info: Lherb.4050A.b
Column phase: DB1701

Instrument: ecol.1
Operator: Q1797
Column diameter: 0.53



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Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40089.D
Lab Smp Id: MLherb
Inj Date : 05-JUL-2000 18:02
Operator : 01797
Smp Info : MLherb,4050A.b
Misc Info : 190-94-2
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
Meth Date : 06-Jul-2000 09:17 matkol
Cal Date : 05-JUL-2000 17:33
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i

Quant Type: ESTD

Cal File: A-B40088.D

Calibration Sample, Level: 2

Compound Sublist: all.sub

						AMOUNTS	
						CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)	
=====	==	=====	=====	=====	=====	=====	=====
1 DALAPON	4.656	4.655	0.001	3247351	0.02200	0.02334	
\$ 2 DCAA	12.259	12.254	0.005	17600818	0.04250	0.04582	
3 DICAMBA	12.944	12.943	0.001	6648551	0.02130	0.02171	
4 MCPP	13.441	13.440	0.001	1223958	4.26000	4.753	
5 MCPA	14.442	14.443	-0.001	1663779	4.28000	4.839	
6 DICHLOROPROP	15.746	15.744	0.002	2695956	0.04240	0.04421	
7 2,4-D	17.073	17.067	0.006	3381817	0.04250	0.04122	
8 PENTACHLOROPHENOL	17.345	17.345	0.000	7538064	0.00532	0.005263	
9 2,4,5-TP(SILVEX)	18.511	18.510	0.001	7468918	0.01050	0.01020	
10 2,4,5-T	19.166	19.163	0.003	5652922	0.01050	0.009696	
11 2,4-DB	19.686	19.682	0.004	2573779	0.04220	0.03780	
12 DINOSBB	20.344	20.345	-0.001	4410084	0.00635	0.006420	

Data File: \\QPI1TP02\J\chem\get.1\4050A.b\A-B40089.D

Date: 05-JUL-2000 18:02

Client ID:

Sample Info: HILherb,4050A.b

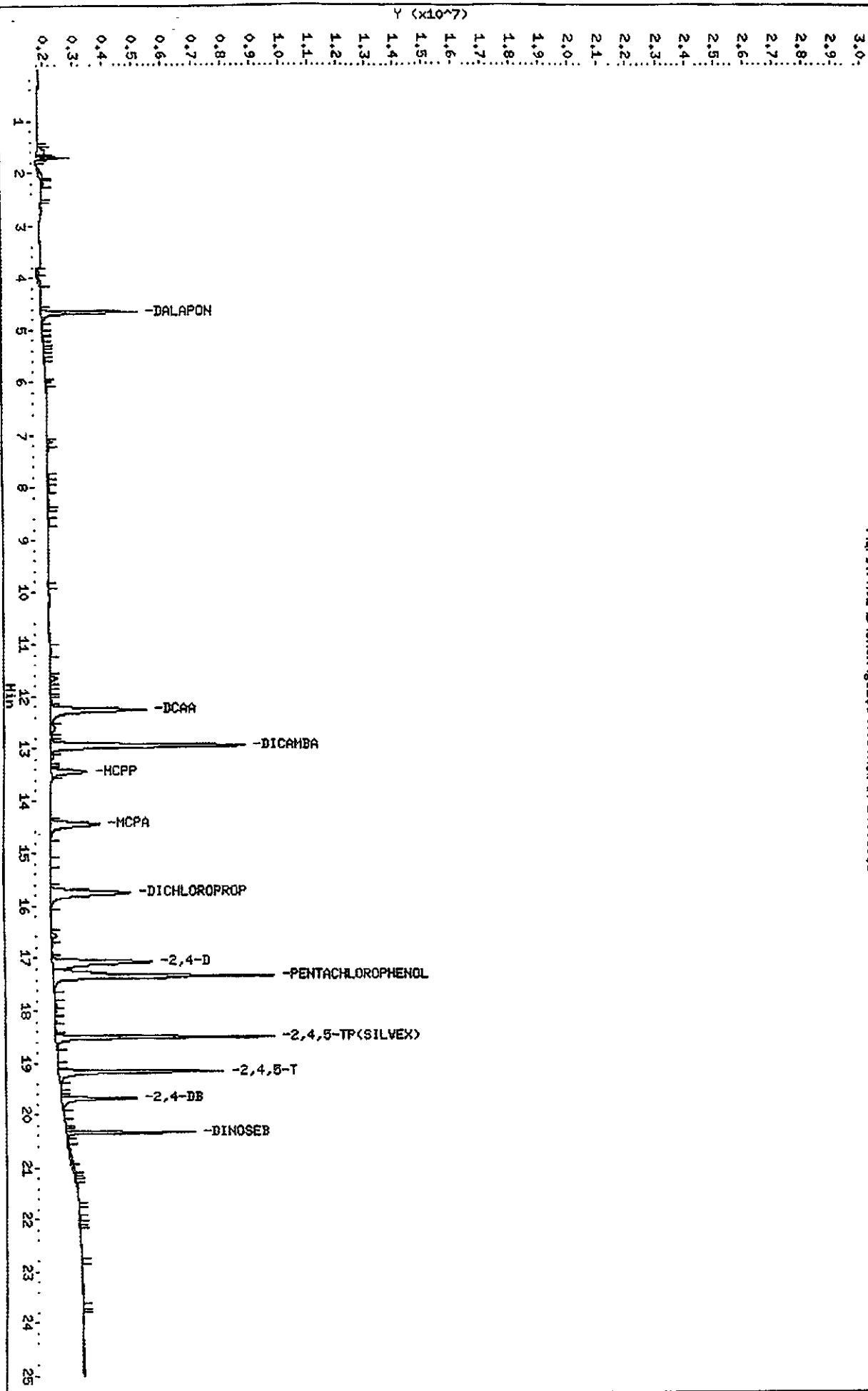
Column phase: DB1701

Instrument: get.1

Operator: 01797

Column diameter: 0.53

\\QPI1TP02\J\chem\get.1\4050A.b\A-B40089.D



663 699

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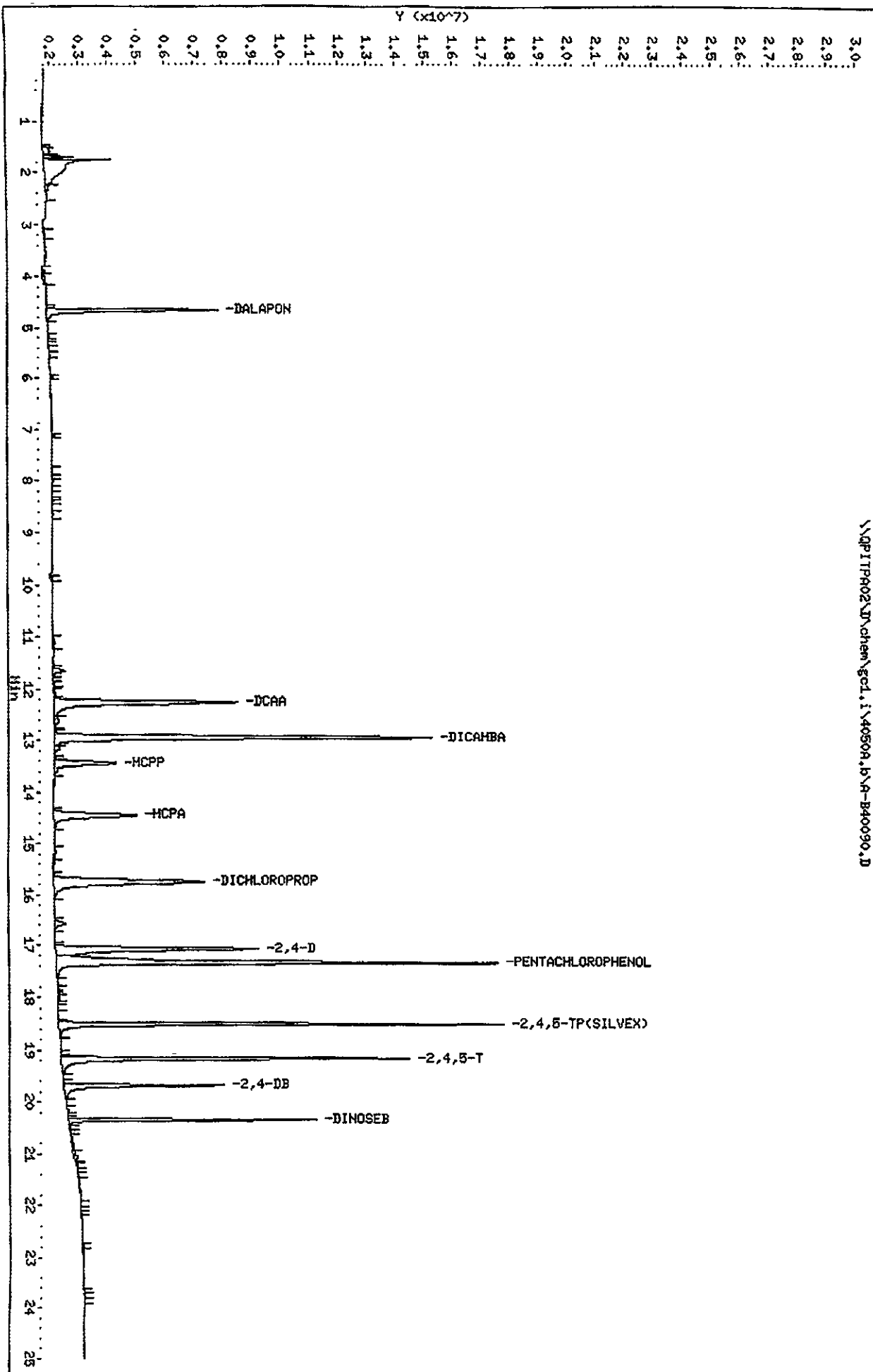
Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40090.D
Lab Smp Id: Mherb
Inj Date : 05-JUL-2000 18:31
Operator : 01797 Inst ID: gc1.i
Smp Info : Mherb,4050A.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
Meth Date : 06-Jul-2000 09:17 matkol Quant Type: ESTD
Cal Date : 05-JUL-2000 17:33 Cal File: A-B40088.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.655	4.655	0.000	5985433	0.04390	0.04302
\$ 2 DCAA	12.254	12.254	0.000	32855365	0.08510	0.08554
3 DICAMBA	12.943	12.943	0.000	13181909	0.04250	0.04305
4 MCPP	13.440	13.440	0.000	2170234	8.52000	8.428
5 MCPA	14.443	14.443	0.000	2894635	8.56000	8.420
6 DICHLOROPROP	15.744	15.744	0.000	5246787	0.08480	0.08605
7 2,4-D	17.067	17.067	0.000	7088065	0.08510	0.08639
8 PENTACHLOROPHENOL	17.345	17.345	0.000	15429626	0.01064	0.01077
9 2,4,5-TP(SILVEX)	18.510	18.510	0.000	15540837	0.02110	0.02123
10 2,4,5-T	19.163	19.163	0.000	12172636	0.02110	0.02088
11 2,4-DB	19.682	19.682	0.000	5572153	0.08450	0.08185
12 DINOSEB	20.345	20.345	0.000	8678831	0.01270	0.01263

663 604

Data File: \\QIP1P02\chem\gcd.1\40504.b\A-B40090.D
 Date : 05-JUL-2000 18:31
 Client ID:
 Sample Info: Herb, 40504.b
 Column phase: DB1701

Instrument: gcd.i
 Operator: 01797
 Column diameter: 0.53



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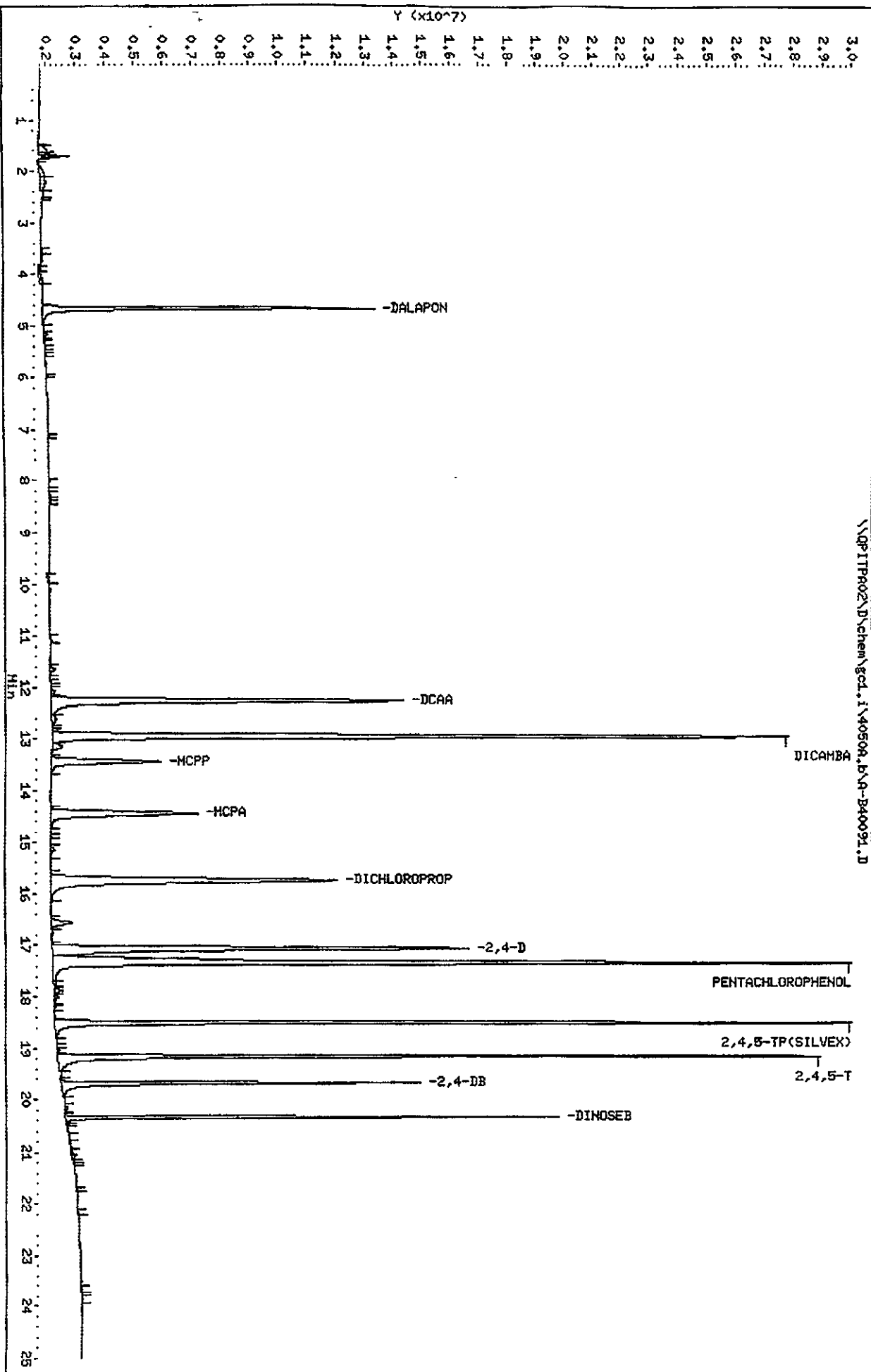
Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40091.D
Lab Smp Id: MHherb
Inj Date : 05-JUL-2000 19:00
Operator : 01797
Smp Info : MHherb,4050A.b
Misc Info : 190-94-4
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
Meth Date : 06-Jul-2000 09:17 matkol
Cal Date : 05-JUL-2000 17:33
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-B40088.D
Calibration Sample, Level: 4
Compound Sublist: all.sub

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	4.656	4.655	0.001	11547102	0.08780	0.08300
\$ 2 DCAA	12.252	12.254	-0.002	60173448	0.17000	0.1566
3 DICAMBA	12.941	12.943	-0.002	25688451	0.08510	0.08390
4 MCPP	13.437	13.440	-0.003	3771618	17.0000	14.65
5 MCPA	14.440	14.443	-0.003	5093767	17.1000	14.82
6 DICHLOROPROP	15.742	15.744	-0.002	9974288	0.17000	0.1626
7 2,4-D	17.061	17.067	-0.006	14499640	0.17000	0.1767
8 PENTACHLOROPHENOL	17.342	17.345	-0.003	30957108	0.02128	0.02161
9 2,4,5-TP(SILVEX)	18.508	18.510	-0.002	31812986	0.04210	0.04347
10 2,4,5-T	19.160	19.163	-0.003	26587339	0.04220	0.04560
11 2,4-DB	19.678	19.682	-0.004	12501822	0.16900	0.1836
12 DINOSEB	20.343	20.345	-0.002	17201427	0.02540	0.02504

Data File: \\QPITPRO2\chem\gc1.i\4050A.b\A-B40091.D
 Date: 05-JUL-2000 19:00
 Client ID:
 Sample Info: HHerb,4050A.b
 Column phase: DB1701

Instrument: gc1.i
 Operator: 01797
 Column diameter: 0.53



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Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40092.D
Lab Smp Id: Hherb
Inj Date : 05-JUL-2000 19:29
Operator : 01797
Smp Info : Hherb,4050A.b
Misc Info : 190-94-5
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
Meth Date : 06-Jul-2000 09:18 matkol
Cal Date : 05-JUL-2000 19:29
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i

Quant Type: ESTD

Cal File: A-B40092.D

Calibration Sample, Level: 5

Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.656	4.655	0.001	22525189	0.17600	0.1619
\$ 2 DCAA	12.248	12.254	-0.006	113719580	0.34000	0.2960
3 DICAMBA	12.941	12.943	-0.002	50523593	0.17000	0.1650
4 MCPP	13.438	13.440	-0.002	6909659	34.1000	26.83
5 MCPA	14.441	14.443	-0.002	9531397	34.0000	27.72
6 DICHLOROPROP	15.740	15.744	-0.004	19146416	0.33900	0.3140
7 2,4-D	17.056	17.067	-0.011	29802991	0.34000	0.3633
8 PENTACHLOROPHENOL	17.342	17.345	-0.003	62291798	0.04255	0.04349
9 2,4,5-TP(SILVEX)	18.507	18.510	-0.003	65512758	0.08400	0.08951
10 2,4,5-T	19.157	19.163	-0.006	58372486	0.08440	0.1001
11 2,4-DB	19.675	19.682	-0.007	28870495	0.33800	0.4241
12 DINOSEB	20.343	20.345	-0.002	35360024	0.05080	0.05147

Data File: \\QPIITP002\\chem\\sol.i\\4050A.b\\A-B40092.D

Date: 05-JUL-2000 19:29

Client ID:

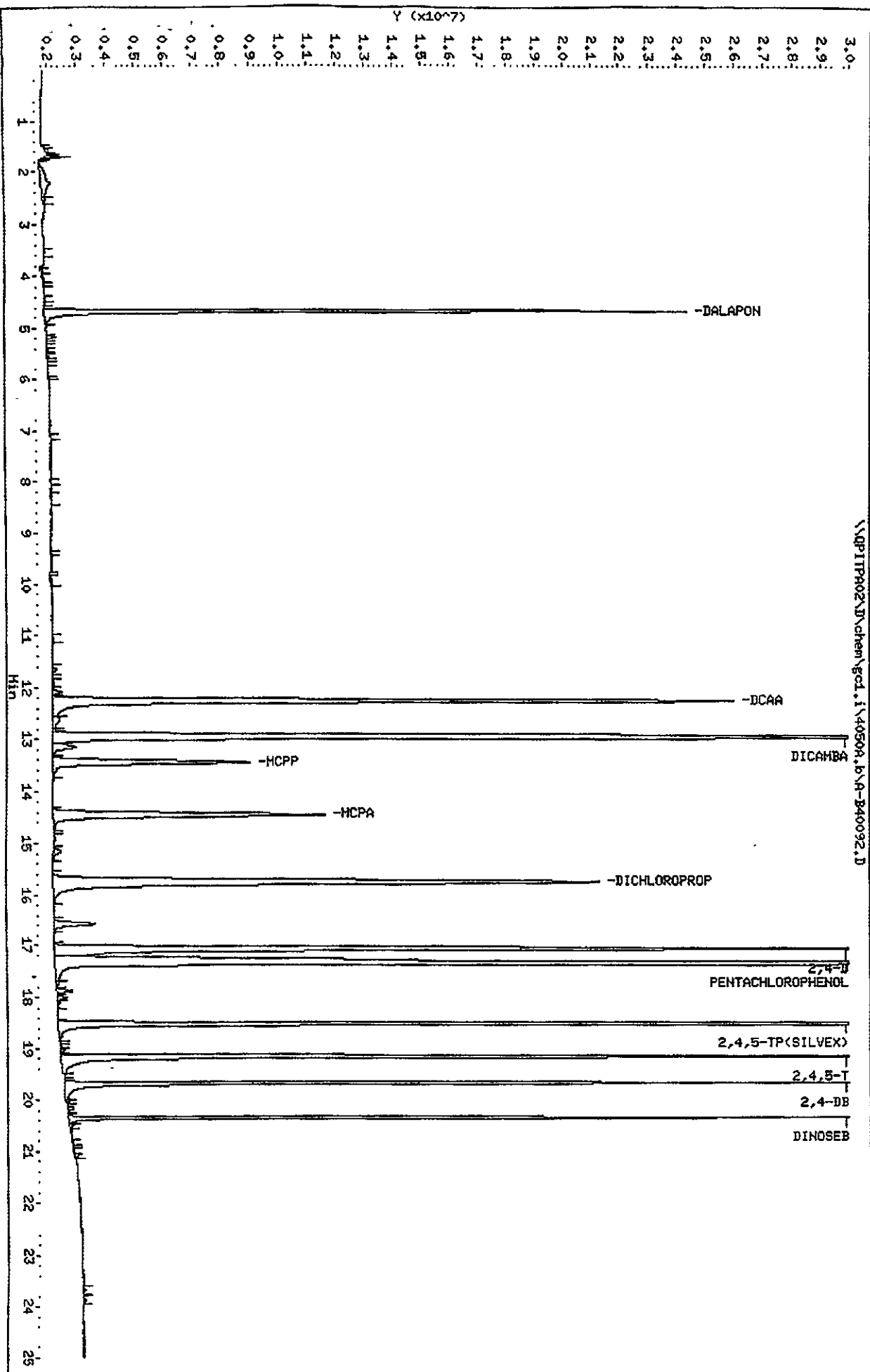
Sample Info: Herb, 4050A.b

Column Phase: DB1701

Instrument: sol.i

Operator: 01797

Column diameter: 0.53



809 699

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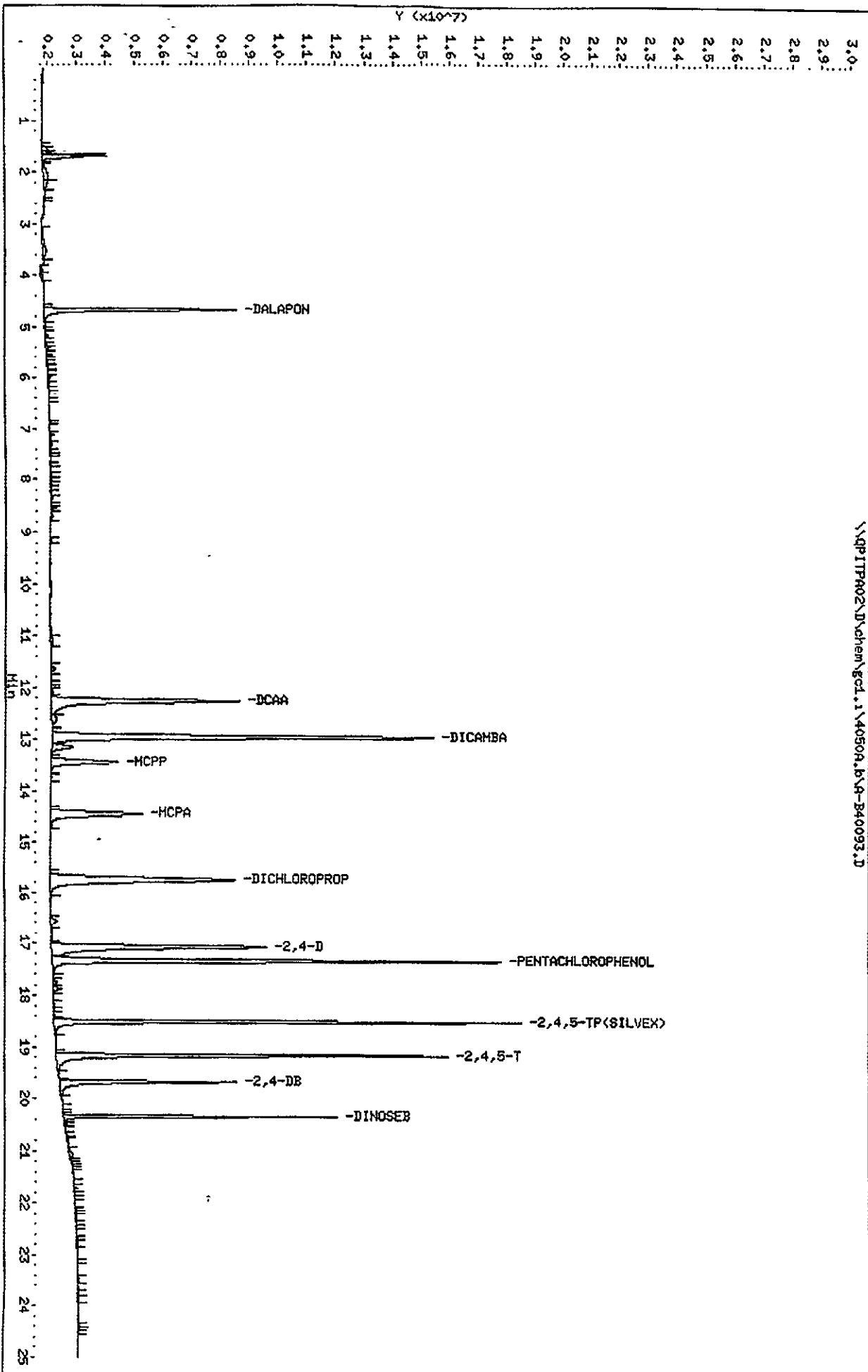
Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40093.D
Lab Smp Id: 2ndherb
Inj Date : 05-JUL-2000 19:58
Operator : 01797
Smp Info : 2ndherb,4050A.b
Misc Info : 190-80-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
Meth Date : 06-Jul-2000 09:02 matkol
Cal Date : 05-JUL-2000 19:29
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-B40092.D
Continuing Calibration Sample
Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	4.656	4.655	0.001	6717254	0.04390	0.04828
\$ 2 DCAA	12.256	12.254	0.002	35240705	0.08510	0.09175
3 DICAMBA	12.942	12.943	-0.001	13359758	0.04250	0.04363
4 MCPP	13.435	13.440	-0.005	2324418	8.52000	9.027
5 MCPA	14.442	14.443	-0.001	3191454	8.56000	9.283
6 DICHLOROPROP	15.744	15.744	0.000	6448591	0.08480	0.1058
7 2,4-D	17.068	17.067	0.001	7494996	0.08510	0.09135
8 PENTACHLOROPHENOL	17.344	17.345	-0.001	15701537	0.01064	0.01096
9 2,4,5-TP (SILVEX)	18.508	18.510	-0.002	16346286	0.02110	0.02233
10 2,4,5-T	19.161	19.163	-0.002	13701760	0.02110	0.02350
11 2,4-DB	19.680	19.682	-0.002	6186664	0.08450	0.09087
12 DINOSEB	20.343	20.345	-0.002	9560236	0.01270	0.01392

Data File: \\APIF002\J\chem\gcl.1\4050A.b\A-340093.D
 Date: 05-JUL-2000 19:58
 Client ID:
 Sample Info: 2ndherb, 4050A.b
 Column Phaset: DB1701

Instrument: gcl.i
 Operator: 01797
 Column diameter: 0.53



019 699

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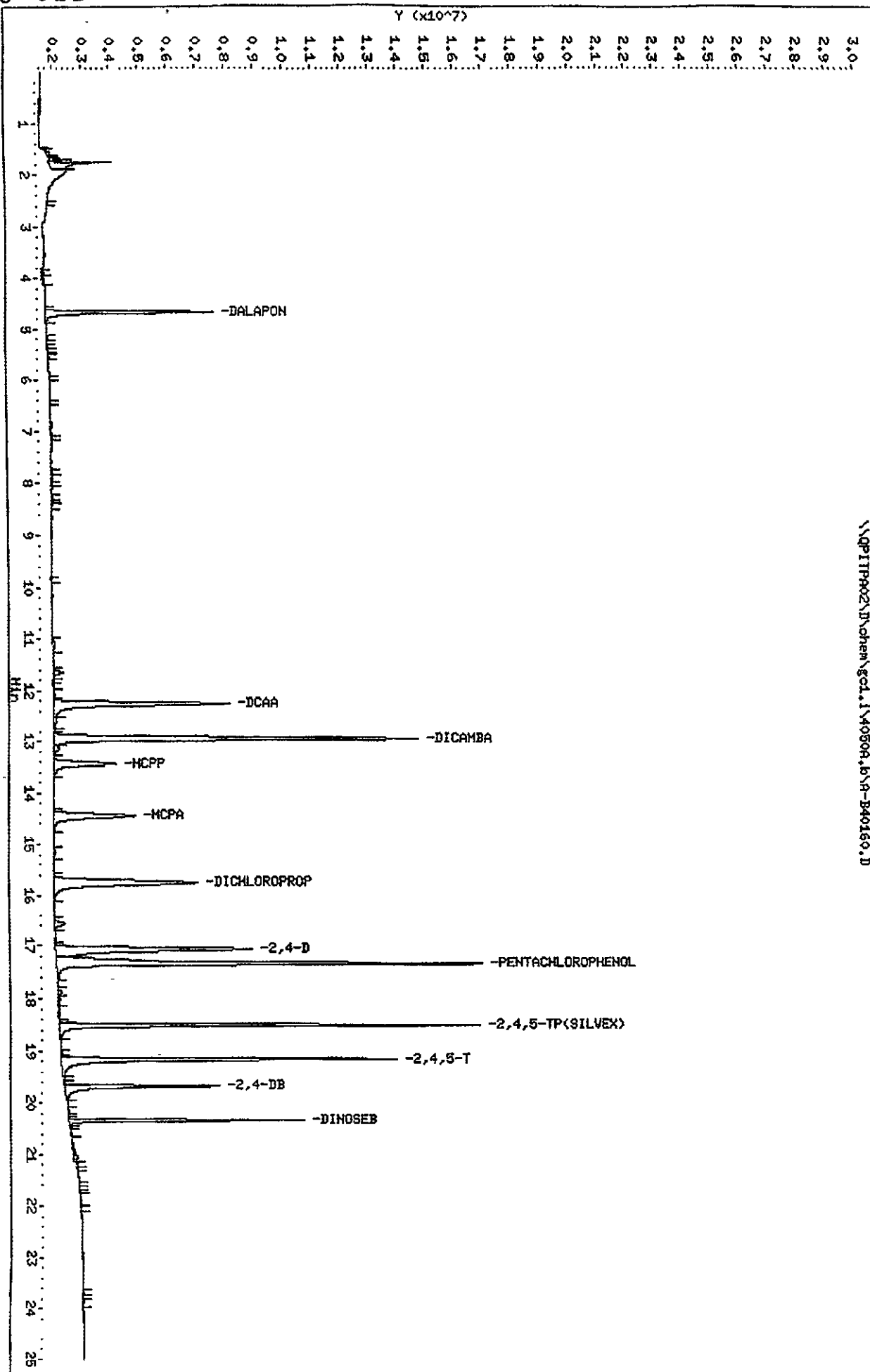
Data file : \\QPITPA02\D\chem\gc1.i\4050A.b\A-B40160.D
 Lab Smp Id: Mherb
 Inj Date : 07-JUL-2000 09:09
 Operator : 01797
 Smp Info : Mherb,4050A.b
 Misc Info : 190-94-3
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\4050A.b\LONGHB.m
 Meth Date : 07-Jul-2000 13:13 matkol
 Cal Date : 05-JUL-2000 18:31
 Als bottle: 53
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B40090.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	4.655	4.655	0.000	5891485	0.04390	0.04235
\$ 2 DCAA	12.252	12.252	0.000	32031186	0.08510	0.08339
3 DICAMBA	12.940	12.940	0.000	12823386	0.04250	0.04188
4 MCPP	13.434	13.434	0.000	2175305	8.52000	8.448
5 MCPA	14.436	14.436	0.000	2883641	8.56000	8.388
6 DICHLOROPROP	15.739	15.739	0.000	5063207	0.08480	0.08304
7 2,4-D	17.065	17.065	0.000	6905560	0.08510	0.08417
8 PENTACHLOROPHENOL	17.341	17.341	0.000	14944956	0.01064	0.01043
9 2,4,5-TP(SILVEX)	18.509	18.509	0.000	14762650	0.02110	0.02017
10 2,4,5-T	19.163	19.163	0.000	11782945	0.02110	0.02021
11 2,4-DB	19.683	19.683	0.000	5432750	0.08450	0.07980
12 DINOSEB	20.342	20.342	0.000	8284473	0.01270	0.01206

Data File: \\NPITPA02\Nchem\gc1.i\4050A.b\A-B40160.D
Date: 07-JUL-2000 09:09
Client ID:
Sample Info: Herb, 4050A.b
Column phase: DB1701

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53



Data File: /var/chem/gc1.i/4050A.b/a-b40180.d
 Report Date: 10-Jul-2000 15:22

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050A.b/a-b40180.d
 Lab Smp Id: Mherb
 Inj Date : 07-JUL-2000 18:46
 Operator : 01797
 Smp Info : Mherb,4050A.b
 Misc Info : 190-94-3
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 10-Jul-2000 15:16 g
 Cal Date : 05-JUL-2000 19:29
 Als bottle: 70
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: a-b40092.d
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	4.657	4.655	0.002	6175925	0.04390	0.04439
\$ 2 DCAA	12.252	12.253	-0.001	33589227	0.08510	0.08745
3 DICAMBA	12.939	12.940	-0.001	13472142	0.04250	0.04400
4 MCPP	13.433	13.434	-0.001	2254745	8.52000	8.756
5 MCPA	14.438	14.437	0.001	2981388	8.56000	8.672
6 DICHLOROPROP	15.739	15.739	0.000	5354590	0.08480	0.08782
7 2,4-D	17.063	17.065	-0.002	7375738	0.08510	0.08990
8 PENTACHLOROPHENOL	17.341	17.342	-0.001	15567824	0.01064	0.01087
9 2,4,5-TP(SILVEX)	18.507	18.509	-0.002	15559018	0.02110	0.02126
10 2,4,5-T	19.161	19.164	-0.003	12423261	0.02110	0.02131
11 2,4-DB	19.681	19.684	-0.003	5782770	0.08450	0.08494
12 DINOSBB	20.342	20.343	-0.001	8683571	0.01270	0.01264

Data File: /var/chem/gc1.1/40504.b/a-b40180.d
Date: 07-JUL-2000 18:46

Client ID:

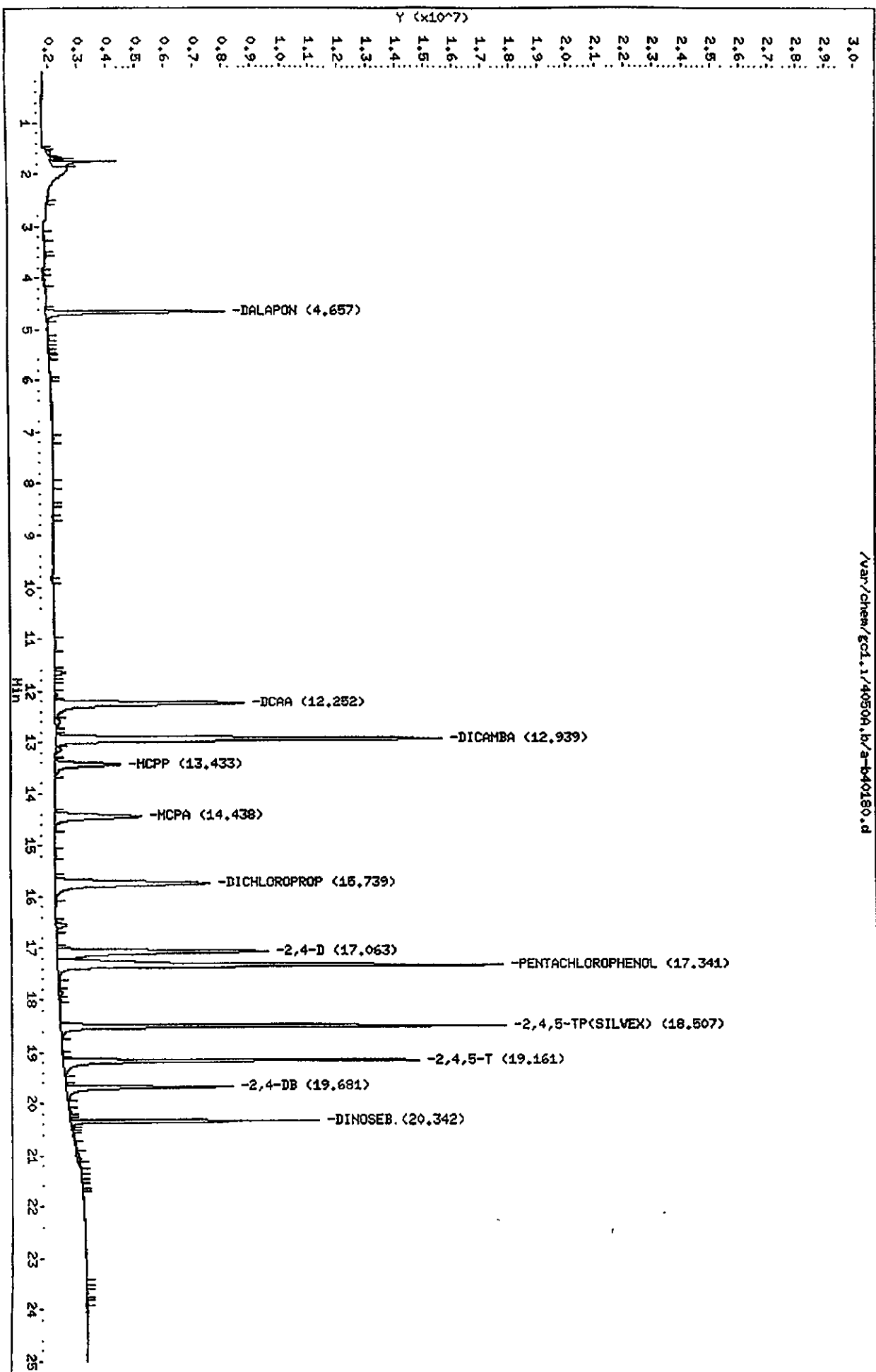
Sample Info: Herb, 40504.b

Column phase: DB1701

Instrument: gc1.i

Operator: 01797

Column diameter: 0.53



Data File: /var/chem/gc1.i/4050A.b/a-b40211.d
 Report Date: 12-Jul-2000 12:55

STL-PITTSBURGH

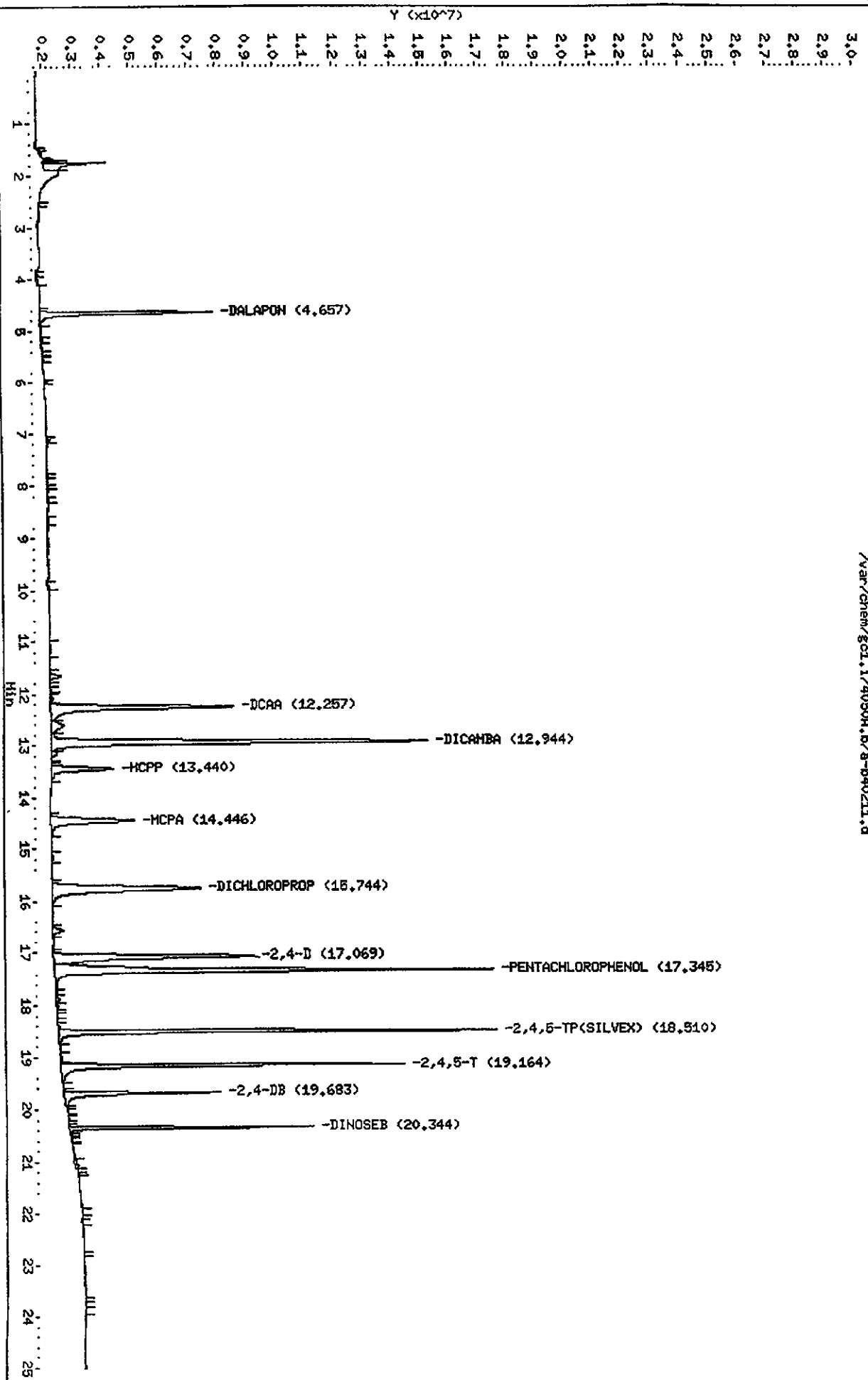
Data file : /var/chem/gc1.i/4050A.b/a-b40211.d
 Lab Smp Id: Mherb
 Inj Date : 11-JUL-2000 17:12
 Operator : 01797
 Smp Info : Mherb,4050A.b
 Misc Info : 190-94-3
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 12-Jul-2000 12:52 matkol
 Cal Date : 05-JUL-2000 19:29
 Als bottle: 52
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: a-b40092.d
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.657	4.657	0.000	6001549	0.04390	0.04314
2 DCAA	12.257	12.257	0.000	33366313	0.08510	0.08687
3 DICAMBA	12.944	12.944	0.000	13059016	0.04250	0.04265
4 MCPP	13.440	13.440	0.000	2133728	8.52000	8.286
5 MCPA	14.446	14.446	0.000	2857389	8.56000	8.311
6 DICHLOROPROP	15.744	15.744	0.000	5134610	0.08480	0.08421
7 2,4-D	17.069	17.069	0.000	6960062	0.08510	0.08483
8 PENTACHLOROPHENOL	17.345	17.345	0.000	15224244	0.01064	0.01063
9 2,4,5-TP(SILVEX)	18.510	18.510	0.000	15206752	0.02110	0.02078
10 2,4,5-T	19.164	19.164	0.000	11905458	0.02110	0.02042
11 2,4-DB	19.683	19.683	0.000	5378121	0.08450	0.07900
12 DINOSEB	20.344	20.344	0.000	8484814	0.01270	0.01235

Data File: /var/chem/gc1.1/40508.b/s-b40211.d
Date: 11-JUL-2000 17:12
Client ID:
Sample Info: Herb,40508.b
Column Phase: DB1701

Instrument: gc1.1
Operator: 01797
Column diameter: 0.53



Data File: /var/chem/gc1.i/4050A.b/a-b40232.d
 Report Date: 12-Jul-2000 12:57

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050A.b/a-b40232.d
 Lab Smp Id: Mherb
 Inj Date : 12-JUL-2000 03:21
 Operator : 01797
 Smp Info : Mherb,4050A.b
 Misc Info : 190-94-3
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 12-Jul-2000 12:52 matkol
 Cal Date : 05-JUL-2000 19:29
 Als bottle: 72
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.40

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: a-b40092.d
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	4.656	4.657	-0.001	6069949	0.04390	0.04363
\$ 2 DCAA	12.254	12.257	-0.003	33239493	0.08510	0.08654
3 DICAMBA	12.941	12.944	-0.003	13323723	0.04250	0.04351
4 MCPF	13.438	13.440	-0.002	2210419	8.52000	8.584
5 MCPA	14.439	14.446	-0.007	2913771	8.56000	8.475
6 DICHLOROPROP	15.744	15.744	0.000	5261089	0.08480	0.08628
7 2,4-D	17.068	17.069	-0.001	7153714	0.08510	0.08719
8 PENTACHLOROPHENOL	17.344	17.345	-0.001	15391997	0.01064	0.01075
9 2,4,5-TP(SILVEX)	18.509	18.510	-0.001	15347542	0.02110	0.02097
10 2,4,5-T	19.164	19.164	0.000	12140701	0.02110	0.02082
11 2,4-DB	19.683	19.683	0.000	5631272	0.08450	0.08272
12 DINOSEB	20.344	20.344	0.000	8678487	0.01270	0.01263

Data File: /var/chem/gcl.i/4050A.b/a-b40232.d
Date: 12-JUL-2000 03:21

Client ID:

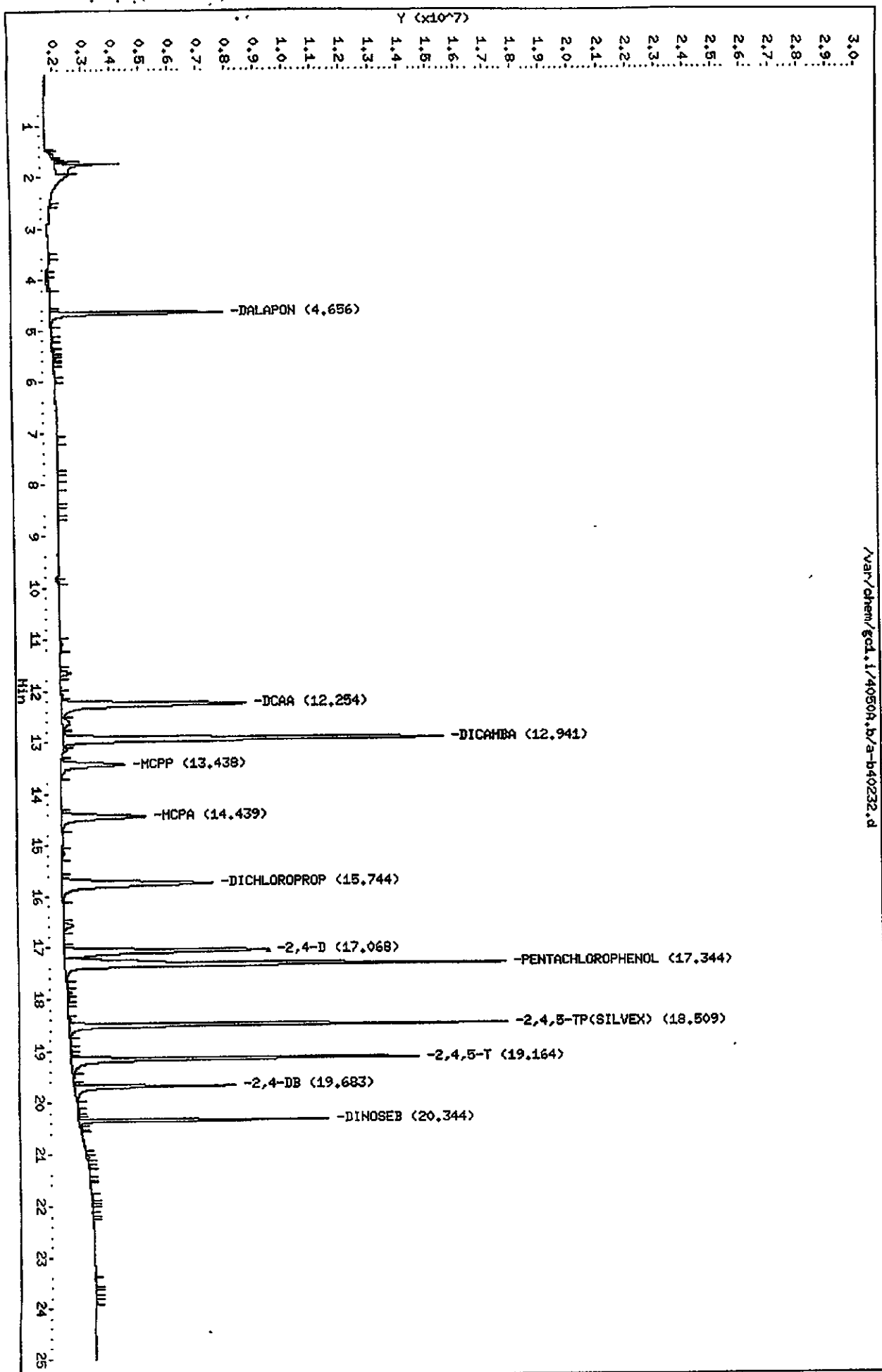
Sample Info: Hherb,4050A.b

Column phase: DB1701

Instrument: gcl.i

Operator: 01797

Column diameter: 0.53



**HERBICIDE
QC DATA**

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 109

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8K101

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/06/00

Moisture %: NA

QC Batch: 0184109

Client Sample Id: INTRA-LAB BLANK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
94-75-7	2,4-D	4.0	U
93-72-1	2,4,5-TP (Silvex)	1.0	U

Data File: /var/chem/gc1.i/4050.b/a-a40113.d
 Report Date: 10-Jul-2000 13:23

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050.b/a-a40113.d
 Lab Smp Id: DFN8K101 Client Smp ID: PBLKW
 Inj Date : 06-JUL-2000 00:19
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DFN8K101,4050.b
 Misc Info : 129BLKW
 Comment :
 Method : /var/chem/gc1.i/4050.b/LONGH.m
 Meth Date : 10-Jul-2000 13:16 g Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:00 Cal File: a-a40102.d
 Als bottle: 18 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 3.40

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON						Compound Not Detected.		
\$ 2 DCAA	10.585	10.573	0.012		9417176	0.03195	6	389
3 MCPP						Compound Not Detected.		
4 DICAMBA						Compound Not Detected.		
5 MCPA						Compound Not Detected.		
6 DICHLOROPROP						Compound Not Detected.		
7 2,4-D						Compound Not Detected.		
8 PENTACHLOROPHENOL						Compound Not Detected.		
9 2,4,5-TP(SILVEX)						Compound Not Detected.		
10 2,4,5-T						Compound Not Detected.		
11 DINOSEB						Compound Not Detected.		
12 2,4-DB	18.533	18.567	-0.034		194807	0.00125	0.2495	

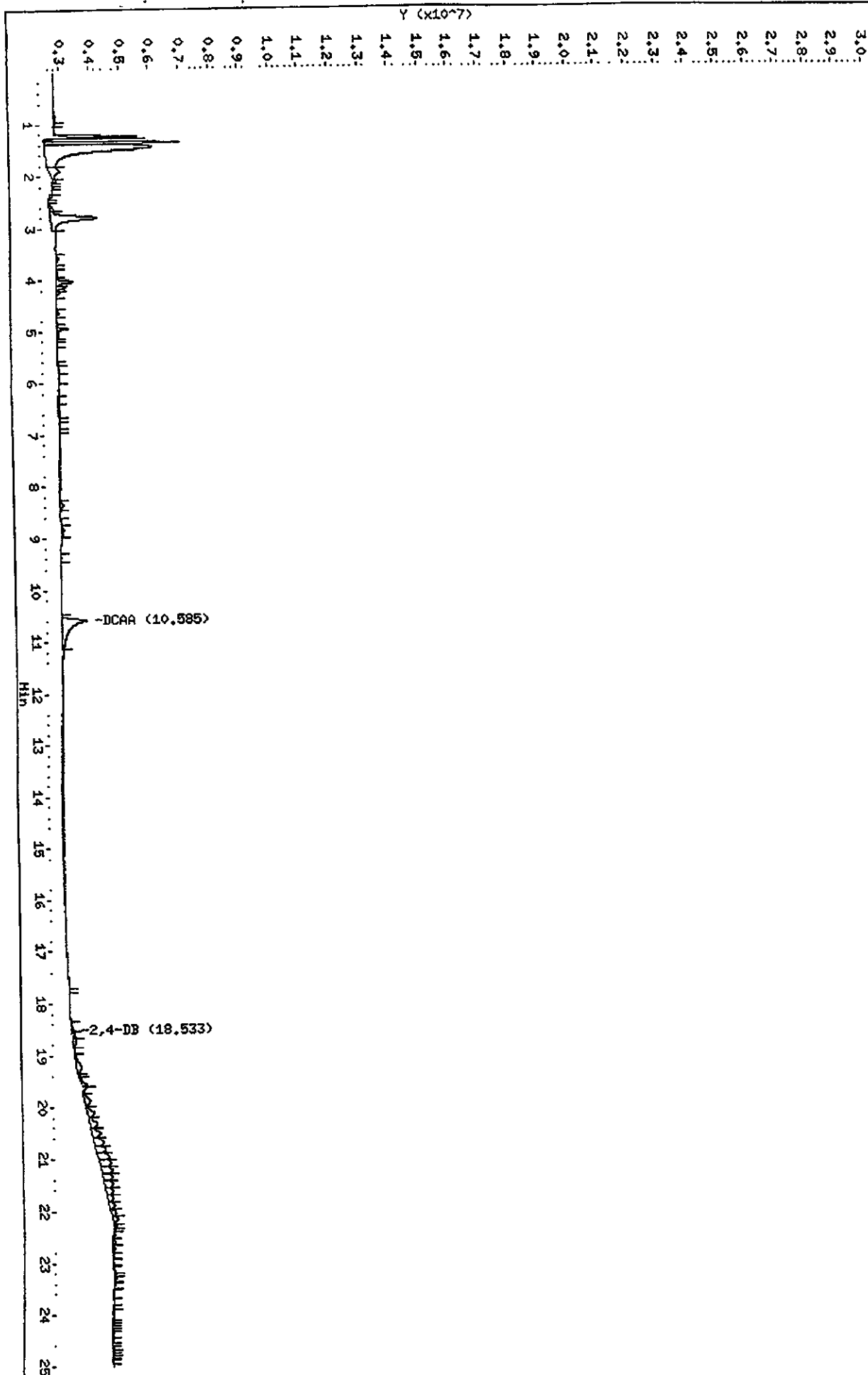
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Data File: /var/chem/gcd.1/4050.b/a-a40113.d
Date : 06-JUL-2000 00:19
Client ID: PBLKM
Sample Info: DFN8K101,4050.b
Volume Injected (uL): 1.0
Column Phase: DB608

Instrument: gcd.1
Operator: 01797
Column diameter: 0.53

/var/chem/gcd.1/4050.b/a-a40113.d



Data File: /var/chem/gc1.i/4050A.b/a-b40168.d
 Report Date: 10-Jul-2000 15:21

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050A.b/a-b40168.d
 Lab Smp Id: DFN8K101 Client Smp ID: PBLKW
 Inj Date : 07-JUL-2000 13:00
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DFN8K101,4050A.b
 Misc Info : 300207BLK
 Comment :
 Method : /var/chem/gc1.i/4050A.b/LONGHB.m
 Meth Date : 10-Jul-2000 15:16 g Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:29 Cal File: a-b40092.d
 Als bottle: 61 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 3.40

Concentration Formula: $\text{Amt} * \text{DF} * 20 * \text{Vt} / \text{Vo} / \text{Vi}$

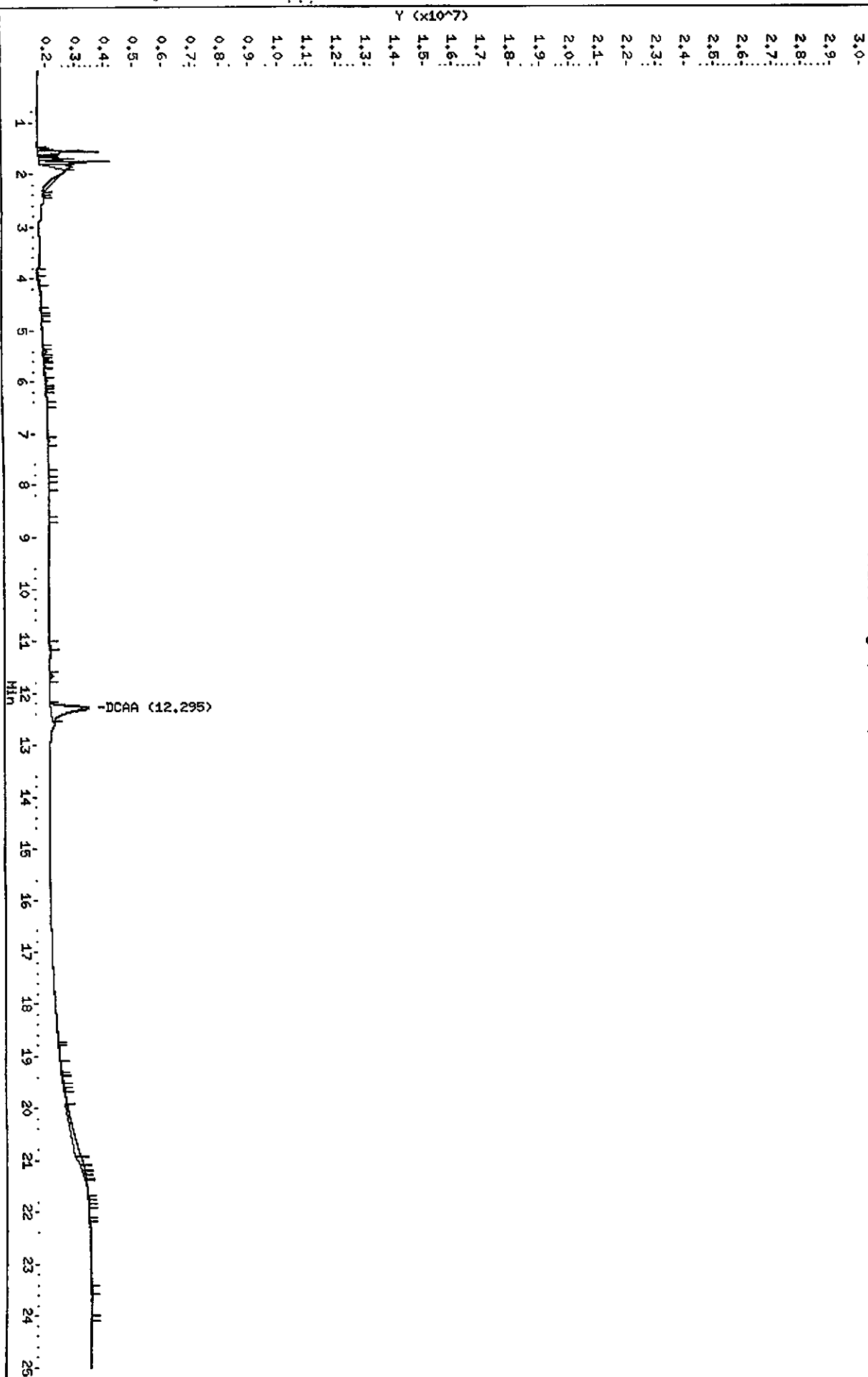
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON						
\$ 2 DCAA	12.295	12.253	0.042	12152304	0.03164	6.327
3 DICAMBA						
4 MCPFP						
5 MCPA						
6 DICHLOROPROP						
7 2,4-D						
8 PENTACHLOROPHENOL						
9 2,4,5-TP (SILVEX)						
10 2,4,5-T						
11 2,4-DB						
12 DINOSBB						

Data File: /var/chem/gc1.i/4050a.b/a-b40168.d
Date : 07-JUL-2000 13:00
Client ID: PELKA
Sample Info: DFENK101.4050a.b
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc1.i
Operator: 01797
Column diameter: 0.53

/var/chem/gc1.i/4050a.b/a-b40168.d



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) WATER Lab Sample ID: C0G020000 109
Method: SW846 8151A
Herbicides (8151A)Sample WT/Vol: 1000 / mL Date Received: 06/30/00
Work Order: DFN8K102 Date Extracted: 07/02/00
Dilution factor: 1 Date Analyzed: 07/06/00
Moisture %: NA

QC Batch: 0184109

Client Sample Id: CHECK SAMPLE

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
94-75-7	2,4-D	17.5	
93-72-1	2,4,5-TP (Silvex)	3.85	
93-76-5	2,4,5-T	4.13	
87-86-5	Pentachlorophenol	1.95	

Data File: /var/chem/gc1.i/4050.b/a-a40114.d
 Report Date: 10-Jul-2000 13:23

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050.b/a-a40114.d
 Lab Smp Id: DFN8K102 Client Smp ID: LCSW
 Inj Date : 06-JUL-2000 00:48
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DFN8K102,4050.b
 Misc Info : 129LCSW
 Comment :
 Method : /var/chem/gc1.i/4050.b/LONGH.m
 Meth Date : 10-Jul-2000 13:16 g Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:00 Cal File: a-a40102.d
 Als bottle: 19 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 3.40

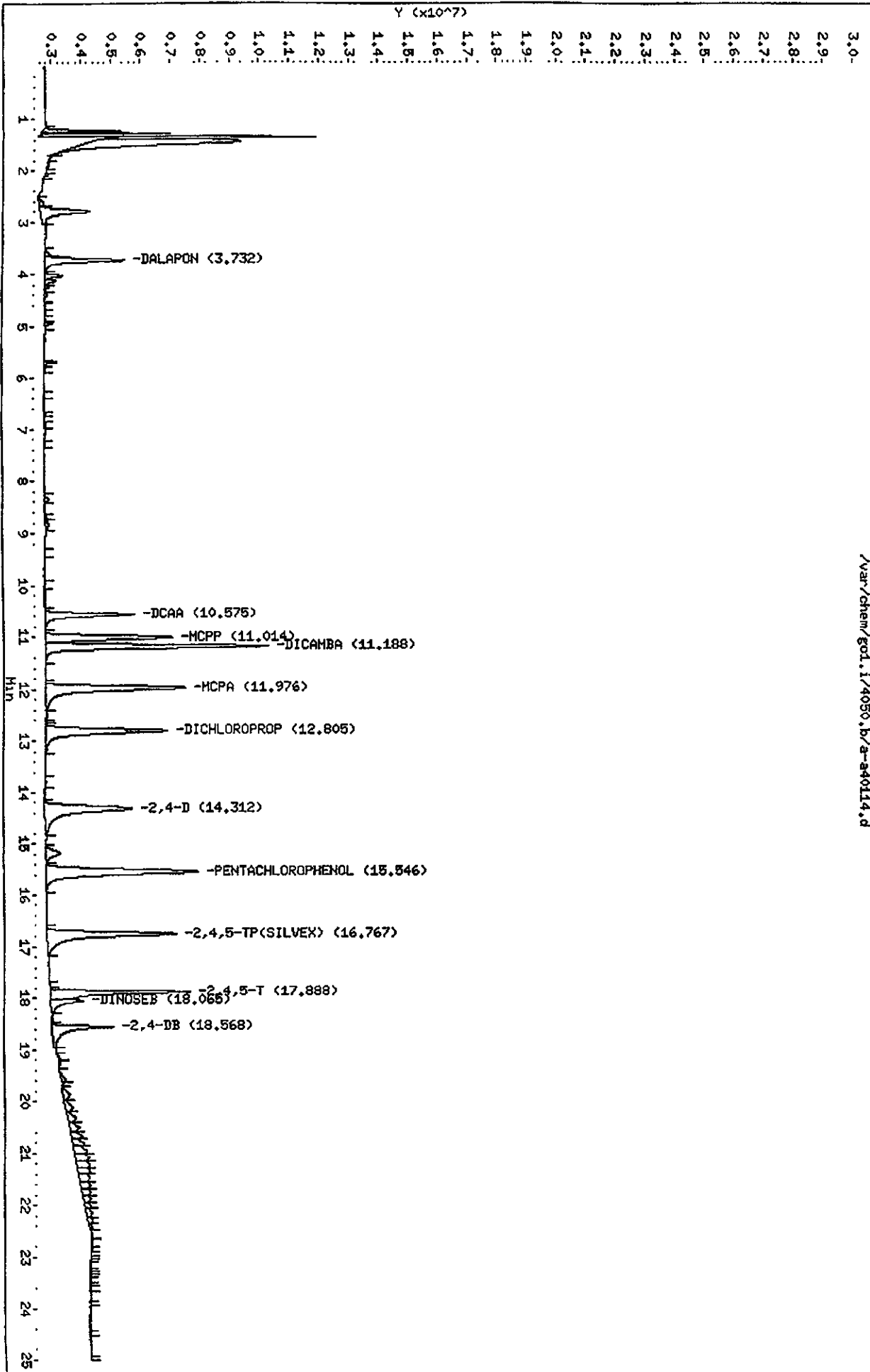
Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	3.732	3.730	0.002	2679679	0.02906	5.812
\$ 2 DCAA	10.575	10.573	0.002	15344470	0.05205	10.41
3 MCPP	11.014	11.015	-0.001	4302004	8.34927	1670
4 DICAMBA	11.188	11.190	-0.002	7494543	0.03525	7.049
5 MCPA	11.976	11.980	-0.004	4688329	8.27987	1656
6 DICHLOROPROP	12.805	12.808	-0.003	4058482	0.09289	18.58
7 2,4-D	14.312	14.314	-0.002	27377437	0.08760	17.52
8 PENTACHLOROPHENOL	15.546	15.544	0.002	5080001	0.00975	1.949
9 2,4,5-TP (SILVEX)	16.767	16.769	-0.002	31921595	0.01923	3.847
10 2,4,5-T	17.888	17.889	-0.001	23189545	0.02063	4.126
11 DINOSEB	18.065	18.069	-0.004	6282158	0.00435	0.8709
12 2,4-DB	18.568	18.567	0.001	12336362	0.07901	15.80

Data File: /var/chem/gol.i/4050.b/a-a40114.d
Date: 06-JUL-2000 00:48
Client ID: LCSM
Sample Info: IFN8K102,4050.b
Volume Injected (ul): 1.0
Column phase: DB608

Instrument: gol.i
Operator: 01797
Column diameter: 0.53



UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C0G020000 109

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 06/30/00

Work Order: DFN8K103

Date Extracted: 07/02/00

Dilution factor: 1

Date Analyzed: 07/06/00

Moisture %: NA

QC Batch: 0184109

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
94-75-7	2,4-D	18.7	
93-72-1	2,4,5-TP (Silvex)	4.00	
93-76-5	2,4,5-T	4.33	
87-86-5	Pentachlorophenol	1.98	

Data File: /var/chem/gc1.i/4050.b/a-a40115.d
 Report Date: 10-Jul-2000 13:23

STL-PITTSBURGH

Data file : /var/chem/gc1.i/4050.b/a-a40115.d
 Lab Smp Id: DFN8K103 Client Smp ID: LCDW
 Inj Date : 06-JUL-2000 01:17
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DFN8K103,4050.b
 Misc Info : 129LCDW
 Comment :
 Method : /var/chem/gc1.i/4050.b/LONGH.m
 Meth Date : 10-Jul-2000 13:16 g Quant Type: ESTD
 Cal Date : 05-JUL-2000 19:00 Cal File: a-a40102.d
 Als bottle: 20 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 3.40

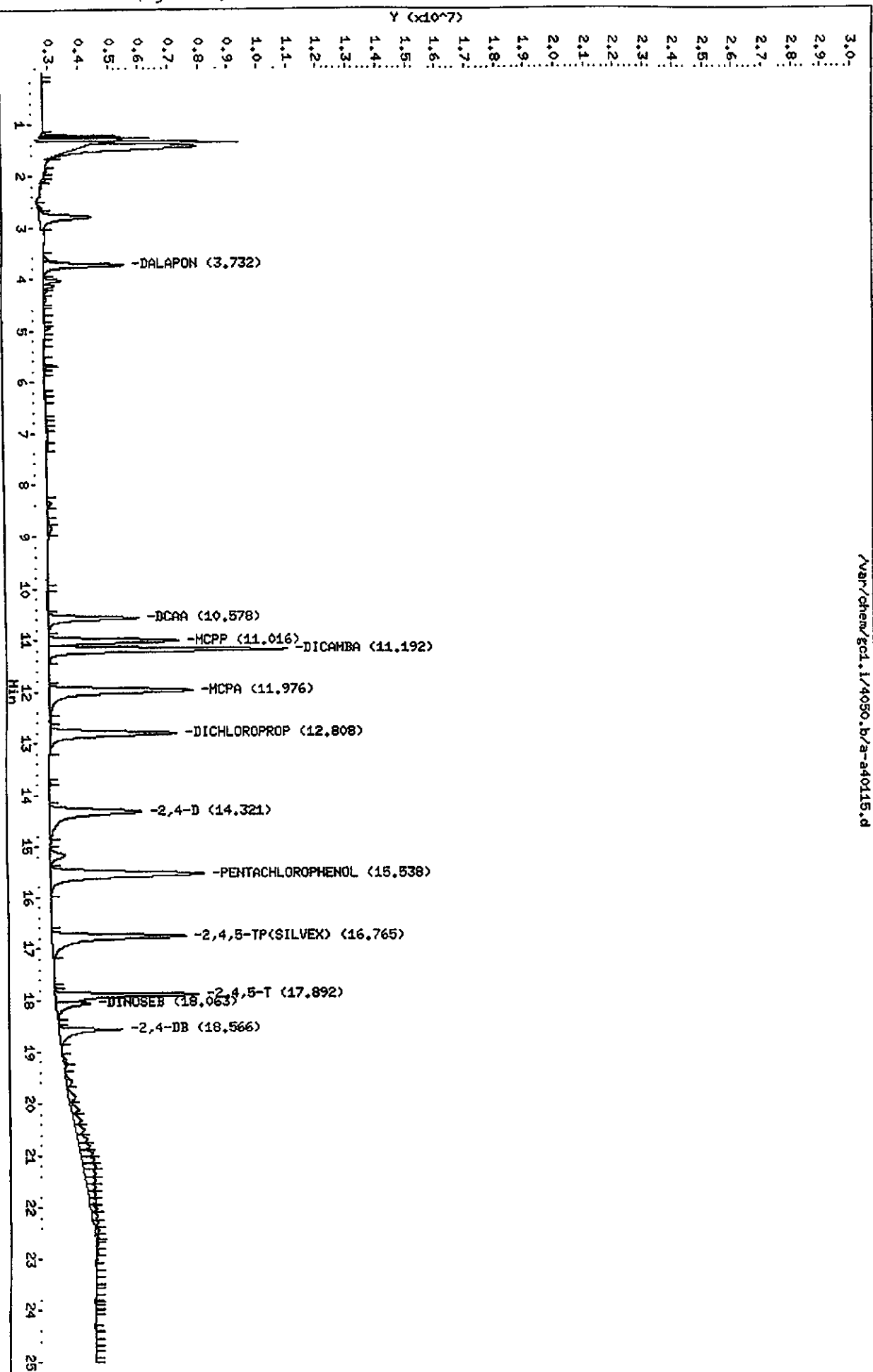
Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	3.732	3.730	0.002	2676962	0.02903	5.806
\$ 2 DCAA	10.578	10.573	0.005	15797298	0.05359	10.72
3 MCPP	11.016	11.015	0.001	4395853	8.53141	1706
4 DICAMBA	11.192	11.190	0.002	8076270	0.03798	7.596
5 MCPA	11.976	11.980	-0.004	4837100	8.54261	1708
6 DICHLOROPROP	12.808	12.808	0.000	4265886	0.09764	19.53
7 2,4-D	14.321	14.314	0.007	29223686	0.09351	18.70
8 PENTACHLOROPHENOL	15.538	15.544	-0.006	5174457	0.00993	1.985
9 2,4,5-TP(SILVEX)	16.765	16.769	-0.004	33211051	0.02001	4.002
10 2,4,5-T	17.892	17.889	0.003	24317005	0.02163	4.326
11 DINOSEB	18.063	18.069	-0.006	7763518	0.00538	1.076
12 2,4-DB	18.566	18.567	-0.001	11878590	0.07608	15.22

Data File: /var/chem/gc1.1/4050.b/a-a4015.d
Date: 06-JUL-2000 01:17
Client ID: LCDM
Sample Info: DFH8K103,4050.b
Volume Injected (uL): 1.0
Column phase: DB608

Instrument: gc1.1
Operator: 01797
Column diameter: 0.53



**HERBICIDE
MISCELLANEOUS**

Extraction Worksheet

B# 0184109 Alex



STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-820-8380

[illegible]

663 632

Quantita N:\QAL\LOGBOOKS\sefun extr.doc Jun-00

OP-00-0044

Cleared in 7/5/00
Sequence Table (Front Injector):

Vial Information Part:

Line Vial Vial Information

9	1	2	RINSE
	2	2	RINSE
	3	2	RINSE
	4	2	RINSE
	5	2	8151 ANALYSIS
	6	3	190-94-1 98
	7	4	190-94-2 99
	8	5	190-94-3 100
	9	6	190-94-4 101
	10	7	190-94-5 102
	11	8	190-80-3 103
	12	9	300129BLK 104 CONF
	13	10	300129LCS 105
	14	11	300129007S 106
	15	12	300129007D 107
	16	13	300129003 108
	17	14	300129004 109 CONF
	18	15	300129005 110 CONF
	19	16	300129006 111 CONF
	20	17	300129007 112
	21	18	~~300129BLK H2O 113~~
	22	19	300129LCS H2O 114
	23	20	300129LCD H2O 115
	24	21	300129001 116
	25	22	~~300129001 117~~

Re-run in 7/10/00

663 634

Line Vial Vial Information

Line	Vial	Vial Information
26	23	260151BLK 118
27	24	260151LCS 119
28	25	260151001S 120
29	26	260151001D 121
30	27	260151001 122
31	28	220146BLK 123
32	29	190-94-3 124
33	30	220146LCS 125
34	31	~~220146LCD~~ 126
35	32	~~220146001~~ 127 OK in 7/10/00
36	33	220146002 128
37	34	220146003 129
38	35	220146004 130
39	36	220146005 131
40	37	200154-1 132
41	38	200154-3 133
42	39	200154-5 134
43	40	~~210184-1~~ 135
44	41	~~210184-3~~ 136
45	42	~~210184-4~~ 137
46	43	210184-6 138
47	44	210184-8 139
48	45	210184-10 140
49	46	190-94-3 141

OK in 7/10/00

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	2	HEXANE,4050.b	HERB	1	Sample		
2	2	HEXANE,4050.b	HERB	1	Sample		
3	2	HEXANE,4050.b	HERB	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
4	2	HEXANE,4050.b	HERB	1	Sample		
5	2	HEXANE,4050.b	HERB	1	Sample		
6	3	Lherb,4050.b	HERB	1	Sample		
7	4	MLherb,4050.b	HERB	1	Sample		
8	5	Mherb,4050.b	HERB	1	Sample		
9	6	MHherb,4050.b	HERB	1	Sample		
10	7	Hherb,4050.b	HERB	1	Sample		
11	8	2ndherb,4050.b	HERB	1	Sample		
12	9	DFM1M101,4050.b	HERB	1	Sample		
13	10	DFM1M102,4050.b	HERB	1	Sample		
14	11	DFJXT104,4050.b	HERB	1	Sample		
15	12	DFJXT105,4050.b	HERB	1	Sample		
16	13	DFJXD102,4050.b	HERB	1	Sample		
17	14	DFJXF102,4050.b	HERB	1	Sample		
18	15	DFJXN102,4050.b	HERB	1	Sample		
19	16	DFJXR102,4050.b	HERB	1	Sample		
20	17	DFJXT102,4050.b	HERB	1	Sample		
21	18	DFN8K101,4050.b	HERB	1	Sample		
22	19	DFN8K102,4050.b	HERB	1	Sample		
23	20	DFN8K103,4050.b	HERB	1	Sample		
24	21	DFJX2103,4050.b	HERB	1	Sample		
25	22	DFKQ3112,4050.b	HERB	1	Sample		
26	23	DFLNN101,4050.b	HERB	1	Sample		
27	24	DFLNN102,4050.b	HERB	1	Sample		
28	25	DFAM3119,4050.b	HERB	1	Sample		
29	26	DFAM311A,4050.b	HERB	1	Sample		
30	27	DFAM3105,4050.b	HERB	1	Sample		
31	28	DF8T6101,4050.b	HERB	1	Sample		
32	29	Mherb,4050.b	HERB	1	Sample		
33	30	DF8T6102,4050.b	HERB	1	Sample		
34	31	DF8T6103,4050.b	HERB	1	Sample		
35	32	DF4KR105,4050.b	HERB	1	Sample		
36	33	DF4L3105,4050.b	HERB	1	Sample		
37	34	DF4L6105,4050.b	HERB	1	Sample		
38	35	DF4L7105,4050.b	HERB	1	Sample		
39	36	DF4LA105,4050.b	HERB	1	Sample		
40	37	DF0KP11L,4050.b	HERB	1	Sample		
41	38	DF0LT11L,4050.b	HERB	1	Sample		
42	39	DF0MN11L,4050.b	HERB	1	Sample		
43	40	DF35P11M,4050.b	HERB	1	Sample		
44	41	DF37F11M,4050.b	HERB	1	Sample		
45	42	DF37G11M,4050.b	HERB	1	Sample		
46	43	DF37T11M,4050.b	HERB	1	Sample		
47	44	DF39V11L,4050.b	HERB	1	Sample		
48	45	DF3DP11M,4050.b	HERB	1	Sample		
49	46	Mherb,4050.b	HERB	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	1	RINSE

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Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	RINSE
2	2	190-94-3 262
3	3	300207-1 263
4	4	070136BLK 264 ✓
5	5	070136LCS 265
6	6	070136002S 266 ✓
7	7	070136002D 267 ✓
8	8	070136001 268
9	9	070136002 269 ✓
10	10	070136003 270 ✓
11	11	230248BLK 271
12	12	230248LCS 272
13	13	230248001S 273
14	14	230248001D 274
15	15	230248001 275
16	16	300151BLK 276
17	17	300151LCS 277
18	18	300151LCD 278
19	19	300151001 279
20	20	300151002 280
21	21	300151003 281
22	22	300151004 282
23	23	190-94-3 283
24	24	290143BLK 284
25	25	290143LCS 285

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CONF

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Line Vial Vial Information

Line	Vial	Vial Information
26	26	290143LCD 286
27	27	290143001 287
28	28	290143003 288
29	29	290143005 289
30	30	290143008 290
31	31	290143010 291
32	32	290143012 292
33	33	290143014 193
34	34	190-94-3 194

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE,4050.b	HERB	2	Sample		
2	2	Mherb,4050.b	HERB	1	Sample		
3	3	DFKQ3112,4050.b	HERB	1	Sample		
4	4	DFVQ3101,4050.b	HERB	1	Sample		
5	5	DFVQ3102,4050.b	HERB	1	Sample		
6	6	DFT6N104,4050.b	HERB	1	Sample		
7	7	DFT6N105,4050.b	HERB	1	Sample		
8	8	DFT6M102,4050.b	HERB	1	Sample		
9	9	DFT6N102,4050.b	HERB	1	Sample		
10	10	DFT6P102,4050.b	HERB	1	Sample		
11	11	DFVNN101,4050.b	HERB	1	Sample		
12	12	DFVNN102,4050.b	HERB	1	Sample		
13	13	DF85P10T,4050.b	HERB	1	Sample		
14	14	DF85P10U,4050.b	HERB	1	Sample		
15	15	DF85P108,4050.b	HERB	1	Sample		
16	16	DFRGD101,4050.b	HERB	1	Sample		
17	17	DFRGD102,4050.b	HERB	1	Sample		
18	18	DFRGD103,4050.b	HERB	1	Sample		
19	19	DFK60105,4050.b	HERB	1	Sample		
20	20	DFK6R105,4050.b	HERB	1	Sample		
21	21	DFK6V105,4050.b	HERB	1	Sample		
22	22	DFK6X105,4050.b	HERB	1	Sample		
23	23	Mherb,4050.b	HERB	1	Sample		
24	24	DFQ35101,4050.b	HERB	1	Sample		
25	25	DFQ35102,4050.b	HERB	1	Sample		
26	26	DFQ35103,4050.b	HERB	1	Sample		
27	27	DFGKR11M,4050.b	HERB	1	Sample		
28	28	DFGLN11M,4050.b	HERB	1	Sample		
29	29	DFGMC11M,4050.b	HERB	1	Sample		
30	30	DFGN211M,4050.b	HERB	1	Sample		
31	31	DFGN611M,4050.b	HERB	1	Sample		
32	32	DFGNH11M,4050.b	HERB	1	Sample		
33	33	DFGNQ11M,4050.b	HERB	1	Sample		

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Analysis

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2	1	RINSE	
3	1	RINSE	
4	1	RINSE	
5	1	RINSE	
6	2	RINSE	
7	3	190-94-1	88
8	4	190-94-2	89
9	5	190-94-3	90
10	6	190-94-4	91
11	7	190-94-5	92
12	8	190-80-3	93
13	51	220175BLK	94
14	52	220175LCS	95
15	53	220175LCD	96
16	54	220175001	97
17	55	220175003	98
18	56	220175005	99
19	57	~~220175007~~	100
20	58	220175009	101
21	59	220175011	102
22	60	230222001	103
23	61	230222003	104
24	62	~~230222005~~	105
25	63	230222007	106
26	64	230222009	107
27	65	~~210119003~~	108
28	66	210119004	109
29	67	210119BLK	110
30	68	210119LCS	111
31	69	~~210119LCD~~	112

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7-11-00

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11549926 10X

32	70	190-94-3	113
33	100	190-94-3	129
34	9	300129BLK	130
35	14	300129004	131
36	15	300129005	132
37	16	300129006	133
38	100	190-94-3	134

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE,4050A.b	HERBA	1	Sample		
2	1	HEXANE,4050A.b	HERBA	1	Sample		
3	1	HEXANE,4050A.b	HERBA	1	Sample		
4	1	HEXANE,4050A.b	HERBA	1	Sample		
5	1	HEXANE,4050A.b	HERBA	1	Sample		
6	2	HEXANE,4050A.b	HERBA	1	Sample		
7	3	Lherb,4050A.b	HERBA	1	Sample		
8	4	MLherb,4050A.b	HERBA	1	Sample		
9	5	Mherb,4050A.b	HERBA	1	Sample		
10	6	MHherb,4050A.b	HERBA	1	Sample		
11	7	Hherb,4050A.b	HERBA	1	Sample		
12	8	2ndherb,4050A.b	HERBA	1	Sample		
13	51	DFAXA101,4050A.b	HERBA	1	Sample		
14	52	DFAXA102,4050A.b	HERBA	1	Sample		
15	53	DFAXA103,4050A.b	HERBA	1	Sample		
16	54	DF4V411R,4050A.b	HERBA	1	Sample		
17	55	DF4VK11M,4050A.b	HERBA	1	Sample		
18	56	DF4W511M,4050A.b	HERBA	1	Sample		
19	57	DF4WF11R,4050A.b	HERBA	1	Sample		
20	58	DF4WT11R,4050A.b	HERBA	1	Sample		
21	59	DF4X811R,4050A.b	HERBA	1	Sample		
22	60	DF80E11M,4050A.b	HERBA	1	Sample		
23	61	DF80R11M,4050A.b	HERBA	1	Sample		
24	62	DF81111M,4050A.b	HERBA	1	Sample		
25	63	DF81511N,4050A.b	HERBA	1	Sample		
26	64	DF81L11N,4050A.b	HERBA	1	Sample		
27	65	DF272101,4050A.b	HERBA	1	Sample		
28	66	DF273101,4050A.b	HERBA	1	Sample		
29	67	DFAXC101,4050A.b	HERBA	1	Sample		
30	68	DFAXC102,4050A.b	HERBA	1	Sample		
31	69	DFAXC103,4050A.b	HERBA	1	Sample		
32	70	Mherb,4050A.b	HERBA	1	Sample		
33	100	Mherb,4050A.b	HERBA	1	Sample		
34	9	DFM1M101,4050.b	HERBA	1	Sample		
35	14	DFJXF102,4050.b	HERBA	1	Sample		
36	15	DFJXN102,4050.b	HERBA	1	Sample		
37	16	DFJXR102,4050.b	HERBA	1	Sample		
38	100	Mherb,4050A.b	HERBA	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
10	10	DFP2W102,4050.b	HERB	1	Sample		
11	11	DFP2X102,4050.b	HERB	1	Sample		
12	12	DFP31102,4050.b	HERB	1	Sample		
13	13	DF272101,4050.b	HERB	1	Sample		
14	14	DF273101,4050.b	HERB	1	Sample		
15	15	DFAXC101,4050.b	HERB	1	Sample		
16	16	DFAXC102,4050.b	HERB	1	Sample		
17	17	DFAXC103,4050.b	HERB	1	Sample		
18	18	Mherb,4050.b	HERB	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	51	RINSE
2	52	RINSE
3	53	190-94-3 160
4	54	290193BLK 161
5	55	290193LCS 162
6	56	290193001D 163
7	57	290193001S 164
8	58	290193001 165
9	59	290193002 166
10	60	290193003 167
11	61	300129BLK H2O 168
12	62	~~300129LCS H2O~~ 169
13	63	300129LCD H2O 170
14	64	~~300129001~~ 171
15	65	~~300207-1~~ 172 Re-run Lm 7/10/00
16	66	~~220175007~~ 173 Re-run Lm 7/10/00
17	67	~~230222005~~ 174
18	13	210119003 *50 175
19	14	210119004 *10 176

Line	Vial	Vial Information
====	====	=====
20	15	210119BLK 177
21	68	220146BLK 178
22	69	220146LCD 179
23	70	190-94-3 180
24	71	~~220146001~~ 181
25	72	210184-1 182
26	73	210184-3 183
27	74	~~210184-4~~ 184
28	75	210162BLK 185
29	76	210162001 186
30	77	210162002 187
31	78	210162003 188
32	79	210162004 189
33	80	210162005 190
34	81	210162006 191
35	82	290139BLK 192
36	83	290139LCS 193
37	84	290139LCD 194
38	85	290139001 195
39	86	290139002 196
40	87	290139003 197
41	88	290139004 198
42	89	290139005 199
43	90	290139006 200
44	91	190-94-3 201
45	92	280149003 202
46	93	280149005 203
47	94	280149007 204

Line	Vial	Vial Information
48	95	280149009 205
49	96	280149011 206
50	97	280149013 207
51	98	190-94-3 208

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	51	HEXANE,4050A.b	HERBA	1	Sample		
2	52	HEXANE,4050A.b	HERBA	1	Sample		
3	53	Mherb,4050A.b	HERBA	1	Sample		
4	54	DFQ38101,4050A.b	HERBA	1	Sample		
5	55	DFQ38102,4050A.b	HERBA	1	Sample		
6	56	DFH5M11E,4050A.b	HERBA	1	Sample		
7	57	DFH5M11F,4050A.b	HERBA	1	Sample		
8	58	DFH5M105,4050A.b	HERBA	1	Sample		
9	59	DFH6F105,4050A.b	HERBA	1	Sample		
10	60	DFH6J105,4050A.b	HERBA	1	Sample		
11	61	DFN8K101,4050A.b	HERBA	1	Sample		
12	62	DFN8K102,4050A.b	HERBA	1	Sample		
13	63	DFN8K103,4050A.b	HERBA	1	Sample		
14	64	DFJX2103,4050A.b	HERBA	1	Sample		
15	65	DFKQ3112,4050A.b	HERBA	1	Sample		
16	66	DF4WF11R,4050A.b	HERBA	1	Sample		
17	67	DF81111M,4050A.b	HERBA	1	Sample		
18	13	DF272101,4050A.b	HERBA	1	Sample		
19	14	DF273101,4050A.b	HERBA	1	Sample		
20	15	DFAXC101,4050A.b	HERBA	1	Sample		
21	68	DF8T6101,4050A.b	HERBA	1	Sample		
22	69	DF8T6103,4050A.b	HERBA	1	Sample		
23	70	Mherb,4050A.b	HERBA	1	Sample		
24	71	DF4KR105,4050A.b	HERBA	1	Sample		
25	72	DF35P11M,4050A.b	HERBA	1	Sample		
26	73	DF37F11M,4050A.b	HERBA	1	Sample		
27	74	DF37G11M,4050A.b	HERBA	1	Sample		
28	75	DFQ38103,4050A.b	HERBA	1	Sample		
29	76	DF2HW10D,4050A.b	HERBA	1	Sample		
30	77	DF2J310D,4050A.b	HERBA	1	Sample		
31	78	DF2J510D,4050A.b	HERBA	1	Sample		
32	79	DF2J610D,4050A.b	HERBA	1	Sample		
33	80	DF2JD10D,4050A.b	HERBA	1	Sample		
34	81	DF2JH10D,4050A.b	HERBA	1	Sample		
35	82	DFLNM101,4050A.b	HERBA	1	Sample		
36	83	DFLNM102,4050A.b	HERBA	1	Sample		
37	84	DFLNM103,4050A.b	HERBA	1	Sample		
38	85	DFGK3105,4050A.b	HERBA	1	Sample		
39	86	DFGK6105,4050A.b	HERBA	1	Sample		
40	87	DFGK7105,4050A.b	HERBA	1	Sample		
41	88	DFGKA105,4050A.b	HERBA	1	Sample		
42	89	DFGKD105,4050A.b	HERBA	1	Sample		
43	90	DFGKF105,4050A.b	HERBA	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
44	91	Mherb,4050A.b	HERBA	1	Sample		
45	92	DFED011L,4050A.b	HERBA	1	Sample		
46	93	DFEEM11L,4050A.b	HERBA	1	Sample		
47	94	DFEF111L,4050A.b	HERBA	1	Sample		
48	95	DFEF911L,4050A.b	HERBA	1	Sample		
49	96	DFEFJ11L,4050A.b	HERBA	1	Sample		
50	97	DFEFQ11L,4050A.b	HERBA	1	Sample		
51	98	Mherb,4050A.b	HERBA	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
34	34	Mherb,4050.b	HERB	1	Sample	663	644

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	51	RINSE
2	52	190-94-3 211
3	53	220175007 212
4	3	300207-1 213
5	54	270198BLK 214
6	55	270198LCS 215
7	56	270198LCD 216
8	57	270198001 217
9	58	270198002 218
10	59	270198003 219
11	60	270198004 220
12	61	270198005 221
13	62	280136001 222
14	63	280136002 223
15	64	280136003 224
16	65	280136004 225
17	66	280136005 226
18	67	240117-1 227
19	68	240117-3 228
20	69	240117-5 229
21	70	270143-1 230
22	71	270143-3 231
23	72	190-94-3 232

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Line	Vial	Vial Information		
====	====	=====	=====	=====
24	73	270143-5	233	
25	74	270143-7	234	
26	75	060152003 *20	235	
27	76	060152004 *20	236	
28	77	~~060152005~~ *20	237	*40 TOTAL
29	78	060152006 *20	238	
30	79	060152BLK	239	
31	80	060152LCS	240	
32	81	060152LCD	241	
33	82	190-94-3	242	

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
1	51	HEXANE,4050A.b	HERBA	2	Sample		
2	52	Mherb,4050A.b	HERBA	1	Sample		
3	53	DF4WF11R,4050A.b	HERBA	1	Sample		
4	3	DFKQ3112,4050A.b	HERBA	1	Sample		
5	54	DFJ9M101,4050A.b	HERBA	1	Sample		
6	55	DFJ9M102,4050A.b	HERBA	1	Sample		
7	56	DFJ9M103,4050A.b	HERBA	1	Sample		
8	57	DFCVH105,4050A.b	HERBA	1	Sample		
9	58	DFCVW105,4050A.b	HERBA	1	Sample		
10	59	DFCVX105,4050A.b	HERBA	1	Sample		
11	60	DFCW2105,4050A.b	HERBA	1	Sample		
12	61	DFCW3105,4050A.b	HERBA	1	Sample		
13	62	DFC85105,4050A.b	HERBA	1	Sample		
14	63	DFC8W105,4050A.b	HERBA	1	Sample		
15	64	DFC92105,4050A.b	HERBA	1	Sample		
16	65	DFC93105,4050A.b	HERBA	1	Sample		
17	66	DFC94105,4050A.b	HERBA	1	Sample		
18	67	DF93F11L,4050A.b	HERBA	1	Sample		
19	68	DF93R11L,4050A.b	HERBA	1	Sample		
20	69	DF93W11L,4050A.b	HERBA	1	Sample		
21	70	DFCFK11M,4050A.b	HERBA	1	Sample		
22	71	DFCGW11M,4050A.b	HERBA	1	Sample		
23	72	Mherb,4050A.b	HERBA	1	Sample		
24	73	DFCH711L,4050A.b	HERBA	1	Sample		
25	74	DFCHD11L,4050A.b	HERBA	1	Sample		
26	75	DFQMH101,4050A.b	HERBA	1	Sample		
27	76	DFQMJ101,4050A.b	HERBA	1	Sample		
28	77	DFQMK101,4050A.b	HERBA	1	Sample		
29	78	DFQMM101,4050A.b	HERBA	1	Sample		
30	79	DGOAV101,4050A.b	HERBA	1	Sample		
31	80	DGOAV102,4050A.b	HERBA	1	Sample		

Sequence: C:\AF0000\2\Sequence\00000001

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
32	81	DG0AV103,4050A.b	HERBA	1	Sample	663	646
33	82	Mherb,4050A.b	HERBA	1	Sample		

663 647

PSR024 7/02/00 14:04:19 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: PINOB

METHOD: QS Herbicides (8151A)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u> <u>RCVD</u>	<u>QTY</u> <u>REQD</u>
2C	DFJX2-1-03	___	247279	413032	I-0A-QS	COF300129	001		WATER	0	6
2D CLP1	DFKQ3-1-12	___	247278	399411	I-0A-QS	COF300207	001		WATER	0	13

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Brian A. Piro
Brian A. Piro

Brian A. Piro
Brian A. Piro

7-2-00 1600
7-2-00 2100

***** END OF REPORT *****

STL Pittsburgh

5097

METALS DATA

STL-Pittsburgh

Cover Page - Inorganic Analysis Data Package

Client ID	Lab Sample ID:
DF/S1/0181/IDW/001	DFKQ3
DF/S1/0181/IDW/001D	DFKQ3D
DF/S1/0181/IDW/001S	DFKQ3S

Comments: UXB DUNN FIELD
COF300207
6010B, 7470A

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

Signature: _____

Name: _____

Date: _____

Title: _____

REVIEWED BY: <u>MTW</u>
DATE: <u>7-7-00</u>

**METALS
RESULTS**

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001
Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.045	0.20	0.088	B	1	CVAA	7/1/00	12:12

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

Metals Data Reporting Form

Sample Results

Lab Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001
 Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.22	12.7	200	602		1	ICP	7/1/00	18:42
Antimony	220.35	1.5	60.0	10.1	B	1	ICPST	7/1/00	18:33
Arsenic	189.04	2.6	10.0	13.9		1	ICPST	7/1/00	18:33
Barium	493.41	0.41	200	81.6	B	1	ICP	7/1/00	18:42
Beryllium	313.04	0.071	5.0	0.071	U	1	ICP	7/1/00	18:42
Cadmium	226.50	0.49	5.0	0.49	U	1	ICPST	7/1/00	18:33
Calcium	317.93	37.9	5000	35600		1	ICP	7/1/00	18:42
Cobalt	228.62	3.2	50.0	3.2	U	1	ICP	7/1/00	18:42
Copper	324.75	2.2	25.0	21.8	B	1	ICP	7/1/00	18:42
Lead	220.35	1.9	3.0	4.7		1	ICPST	7/1/00	18:33
Magnesium	279.08	19.9	5000	9230		1	ICP	7/1/00	18:42
Manganese	257.61	0.87	15.0	391		1	ICP	7/1/00	18:42
Nickel	231.60	6.1	40.0	6.1	U	1	ICP	7/1/00	18:42
Potassium	766.49	496	5000	3960	B	1	ICP	7/1/00	18:42
Selenium	220.35	2.1	5.0	2.1	U	1	ICPST	7/1/00	18:33
Silver	328.07	0.94	10.0	1.3	B	1	ICPST	7/1/00	18:33
Sodium	589	29.0	10000	433000		2	ICP	7/1/00	19:04
Thallium	190.86	3.9	10.0	3.9	U	1	ICPST	7/1/00	18:33
Vanadium	292.40	1.8	50.0	3.7	B	1	ICP	7/1/00	18:42
Zinc	213.86	3.7	20.0	71.2		1	ICPST	7/1/00	18:33

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001
Matrix: Water Units: ug/L Prep Date: 7/3/00 Prep Batch: 0185113
Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Chromium	267.72	1.0	10.0	26.7		1	ICPST	7/3/00	19:24
Iron	259.94	8.8	100	1250		1	ICP	7/3/00	18:23

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL
B Result is between MDL and RL

Form 1 Equivalent

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAAUnits: ug/LChart Number: 0701HGA.PRNAcceptable Range: 80% - 120%Standard Source: UltraStandard ID: 0014-164-5

			ICV5-1 7/1/00 11:59 AM							
Element	WL/ Mass	True Conc	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.58	103.2						

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPUnits: ug/LChart Number: J00701A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-148-7

Element	WL/ Mass	True Conc	ICV2-1 7/1/00 3:27 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	25000.0	25216.88	100.9								
Barium	493.409	1000.0	993.34	99.3								
Beryllium	313.042	1000.0	972.44	97.2								
Calcium	317.933	25000.0	25358.96	101.4								
Cobalt	228.616	1000.0	1003.12	100.3								
Copper	324.754	1000.0	985.58	98.6								
Magnesium	279.079	25000.0	25343.00	101.4								
Manganese	257.61	1000.0	1002.56	100.3								
Nickel	231.604	1000.0	994.40	99.4								
Potassium	766.491	25000.0	25212.44	100.8								
Sodium	588.995	25000.0	24944.95	99.8								
Vanadium	292.402	1000.0	991.22	99.1								

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPUnits: ug/LChart Number: J00703A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-148-7

Element	WL/ Mass	True Conc	ICV2-1 7/3/00 2:16 PM							
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Iron	259.94	25000.0	26073.37	104.3						

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPSTUnits: ug/LChart Number: T00701A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-146-5

Element	WL/ Mass	True Conc	ICV3-1 7/1/00 3:32 PM							
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	250.0	251.10	100.4						
Arsenic	189.042	250.0	253.23	101.3						
Cadmium	226.502	250.0	244.92	98.0						
Lead	220.353	250.0	247.68	99.1						
Selenium	220.353	250.0	256.12	102.4						
Silver	328.068	500.0	495.86	99.2						
Thallium	190.864	500.0	504.59	100.9						
Zinc	213.856	1000.0	1015.47	101.5						

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPSTUnits: ug/LChart Number: T00703A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-146-5

			ICV3-1 7/3/00 2:19 PM							
	WL/ Mass	True Conc	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Chromium	267.716	1000.0	1025.92	102.6						

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAAUnits: ug/LChart Number: 0701HGA.PRNAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0014-164-6

Element	WL/ Mass	True Conc	CCV5-1 7/1/00 12:03 PM		CCV5-2 7/1/00 12:28 PM							
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	4.93	98.6	5.13	102.6						

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPUnits: ug/LChart Number: J00701A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-129-12

Element	WL/ Mass	True Conc	CCV2-1 7/1/00 4:06 PM		CCV2-2 7/1/00 4:47 PM		CCV2-3 7/1/00 5:15 PM		CCV2-4 7/1/00 5:52 PM		CCV2-5 7/1/00 6:29 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	50000.0	50416.05	100.8	50513.25	101.0	50155.10	100.3	49371.12	98.7	49761.58	99.5
Barium	493.409	5000.0	4986.54	99.7	5012.54	100.3	4944.72	98.9	4830.77	96.6	4877.68	97.6
Beryllium	313.042	5000.0	4960.85	99.2	5000.10	100.0	4977.84	99.6	4904.80	98.1	4938.62	98.8
Calcium	317.933	50000.0	50195.36	100.4	49864.00	99.7	50482.02	101.0	50986.09	102.0	50862.85	101.7
Cobalt	228.616	5000.0	4969.74	99.4	4957.90	99.2	4986.75	99.7	4980.90	99.6	4989.94	99.8
Copper	324.754	5000.0	4989.39	99.8	5026.90	100.5	4960.68	99.2	4838.79	96.8	4886.05	97.7
Magnesium	279.079	50000.0	50521.40	101.0	50762.20	101.5	50552.01	101.1	49703.75	99.4	50193.52	100.4
Manganese	257.61	5000.0	4950.88	99.0	4932.54	98.7	4946.89	98.9	4930.49	98.6	4931.73	98.6
Nickel	231.604	5000.0	4961.16	99.2	4975.21	99.5	5012.37	100.2	5034.33	100.7	5062.99	101.3
Potassium	766.491	50000.0	50741.92	101.5	50394.68	100.8	50433.50	100.9	48695.16	97.4	49247.29	98.5
Sodium	588.995	50000.0	51110.37	102.2	51646.83	103.3	50774.53	101.5	49139.39	98.3	49731.65	99.5
Vanadium	292.402	5000.0	4962.30	99.2	4964.85	99.3	4967.24	99.3	4944.31	98.9	4952.82	99.1

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPUnits: ug/LChart Number: J00701A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-129-12

Element	WL/ Mass	True Conc	CCV2-6 7/1/00 7:16 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	50000.0	49355.38	98.7								
Barium	493.409	5000.0	4796.79	95.9								
Beryllium	313.042	5000.0	4900.20	98.0								
Calcium	317.933	50000.0	51502.62	103.0								
Cobalt	228.616	5000.0	5006.64	100.1								
Copper	324.754	5000.0	4815.07	96.3								
Magnesium	279.079	50000.0	49921.43	99.8								
Manganese	257.61	5000.0	4936.66	98.7								
Nickel	231.604	5000.0	5059.09	101.2								
Potassium	766.491	50000.0	48429.88	96.9								
Sodium	588.995	50000.0	48972.43	97.9								
Vanadium	292.402	5000.0	4950.79	99.0								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPUnits: ug/LChart Number: J00703A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-129-12

Element	WL/ Mass	True Conc	CCV2-1 7/3/00 2:55 PM		CCV2-2 7/3/00 3:36 PM		CCV2-3 7/3/00 4:08 PM		CCV2-4 7/3/00 4:49 PM		CCV2-5 7/3/00 5:18 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Iron	259.94	50000.0	51077.40	102.2	50441.82	100.9	51172.06	102.3	51429.04	102.9	51073.20	102.1

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPUnits: ug/LChart Number: J00703A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-129-12

Element	WL/ Mass	True Conc	CCV2-6 7/3/00 5:55 PM		CCV2-7 7/3/00 6:29 PM							
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Iron	259.94	50000.0	50695.54	101.4	50406.82	100.8						

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T00701A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-155-3

Element	WL/ Mass	True Conc	CCV3-1 7/1/00 4:22 PM		CCV3-2 7/1/00 5:14 PM		CCV3-3 7/1/00 5:26 PM		CCV3-4 7/1/00 6:16 PM		CCV3-5 7/1/00 6:49 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	500.0	518.30	103.7	519.63	103.9	517.33	103.5	509.70	101.9	515.16	103.0
Arsenic	189.042	500.0	517.25	103.5	516.30	103.3	513.94	102.8	511.30	102.3	514.78	103.0
Cadmium	226.502	500.0	498.84	99.8	498.03	99.6	493.42	98.7	492.28	98.5	496.65	99.3
Lead	220.353	500.0	511.76	102.4	510.01	102.0	508.47	101.7	504.13	100.8	508.12	101.6
Selenium	220.353	500.0	528.40	105.7	525.30	105.1	529.87	106.0	523.14	104.6	529.15	105.8
Silver	328.068	1000.0	1033.14	103.3	1025.79	102.6	1026.12	102.6	1015.46	101.5	1022.65	102.3
Thallium	190.864	1000.0	1033.76	103.4	1030.52	103.1	1024.99	102.5	1023.32	102.3	1031.95	103.2
Zinc	213.856	2000.0	2054.58	102.7	2049.93	102.5	2039.63	102.0	2020.20	101.0	2038.39	101.9

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T00703A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0014-155-3

Element	WL/ Mass	True Conc	CCV3-1 7/3/00 3:09 PM		CCV3-2 7/3/00 3:44 PM		CCV3-3 7/3/00 4:37 PM		CCV3-4 7/3/00 5:22 PM		CCV3-5 7/3/00 6:16 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Chromium	267.716	2000.0	2057.68	102.9	2021.42	101.1	2048.03	102.4	2056.05	102.8	2026.83	101.3

STL-Pittsburgh
Metals Data Reporting Form

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Continuing Calibration Verification

Instrument: ICPST

Units: ug/L

Chart Number: T00703A.ARC

Acceptable Range: 90% - 110%

Standard Source: Inorganic Ventures

Standard ID: 0014-155-3

Element	WL/ Mass	True Conc	CCV3-6 7/3/00 6:51 PM		CCV3-7 7/3/00 7:32 PM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Chromium	267.716	2000.0	2039.21	102.0	2062.70	103.1				

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0701HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 7/1/00 12:01 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U						

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00701A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 7/1/00 3:30 PM		Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q										
Aluminum	308.215	200	12.7	U										
Barium	493.409	200	0.4	U										
Beryllium	313.042	5	0.1	U										
Calcium	317.933	5000	823.0	B										
Cobalt	228.616	50	3.2	U										
Copper	324.754	25	2.2	U										
Magnesium	279.079	5000	19.9	U										
Manganese	257.61	15	0.9	U										
Nickel	231.604	40	6.1	U										
Potassium	766.491	5000	496.0	U										
Sodium	588.995	5000	21.9	B										
Vanadium	292.402	50	1.8	U										

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00703A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 7/3/00 2:20 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Iron	259.94	100	8.8	U						

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00701A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 7/1/00 3:36 PM		Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	2.5	B										
Arsenic	189.042	10	2.6	U										
Cadmium	226.502	5	0.5	U										
Lead	220.353	3	1.9	U										
Selenium	220.353	5	2.1	U										
Silver	328.068	10	0.9	U										
Thallium	190.864	10	3.9	U										
Zinc	213.856	20	3.7	U										

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00703A.ARC

Standard Source: _____

Standard ID: _____

			ICB1 7/3/00 2:23 PM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Chromium	267.716	10	1.0	U				

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0701HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/1/00 12:05 PM		CCB2 7/1/00 12:30 PM					
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	B	0.0	U				

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00701A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/1/00 4:09 PM	CCB2 7/1/00 4:50 PM	CCB3 7/1/00 5:18 PM	CCB4 7/1/00 5:55 PM	CCB5 7/1/00 6:32 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Aluminum	308.215	200	12.7 U	12.7 U	12.7 U	34.7 B	12.7 U
Barium	493.409	200	0.4 U	0.4 U	0.4 U	3.1 B	0.5 B
Beryllium	313.042	5	0.1 U	0.6 B	0.2 B	3.2 B	0.9 B
Calcium	317.933	5000	176.0 B	45.1 B	37.9 U	303.0 B	37.9 U
Cobalt	228.616	50	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Copper	324.754	25	2.2 U	2.2 U	2.2 U	2.5 B	2.2 U
Magnesium	279.079	5000	19.9 U	19.9 U	19.9 U	25.8 B	19.9 U
Manganese	257.61	15	0.9 U	0.9 U	0.9 U	3.2 B	0.9 U
Nickel	231.604	40	6.1 U	6.1 U	6.1 U	6.1 U	6.1 U
Potassium	766.491	5000	496.0 U	496.0 U	496.0 U	496.0 U	496.0 U
Sodium	588.995	5000	14.5 U	14.5 U	14.5 U	122.0 B	16.9 B
Vanadium	292.402	50	1.8 U	-2.2 B	1.8 U	1.8 U	1.8 U

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00701A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 7/1/00 7:19 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	12.7	U						
Barium	493.409	200	0.4	U						
Beryllium	313.042	5	0.1	U						
Calcium	317.933	5000	37.9	U						
Cobalt	228.616	50	3.2	U						
Copper	324.754	25	2.2	U						
Magnesium	279.079	5000	19.9	U						
Manganese	257.61	15	0.9	U						
Nickel	231.604	40	6.1	U						
Potassium	766.491	5000	496.0	U						
Sodium	588.995	5000	14.5	U						
Vanadium	292.402	50	1.8	U						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00703A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/3/00 2:58 PM	CCB2 7/3/00 3:39 PM	CCB3 7/3/00 4:11 PM	CCB4 7/3/00 4:52 PM	CCB5 7/3/00 5:21 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Iron	259.94	100	8.8 U	8.8 U	8.8 U	8.8 U	8.8 U

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00703A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 7/3/00 5:58 PM	CCB7 7/3/00 6:32 PM			
			Found Q	Found Q	Found Q	Found Q	Found Q
Iron	259.94	100	8.8 U	8.8 U			

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00701A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/1/00 4:26 PM	CCB2 7/1/00 5:18 PM	CCB3 7/1/00 5:30 PM	CCB4 7/1/00 6:20 PM	CCB5 7/1/00 6:54 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Antimony	220.353	60	1.5 U	1.9 B	1.5 U	1.5 U	1.5 U
Arsenic	189.042	10	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Cadmium	226.502	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Lead	220.353	3	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Selenium	220.353	5	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Silver	328.068	10	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Thallium	190.864	10	3.9 U	3.9 U	3.9 U	3.9 U	3.9 U
Zinc	213.856	20	3.7 U	3.7 U	3.7 U	3.7 U	3.7 U

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00703A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 7/3/00 3:13 PM	CCB2 7/3/00 3:48 PM	CCB3 7/3/00 4:41 PM	CCB4 7/3/00 5:27 PM	CCB5 7/3/00 6:20 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Chromium	267.716	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPST

Units: ug/L

Chart Number: T00703A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 7/3/00 6:55 PM	CCB7 7/3/00 7:37 PM			
			Found Q	Found Q	Found Q	Found Q	Found Q
Chromium	267.716	10	1.0 U	1.0 U			

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DFM19BMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.045	0.20	0.045	U	1	CVAA	7/1/00	12:07

Comments: Lot #: C0F300207

Version 3.63.4

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DFM2LBMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	12.7	200	12.7	U	1	ICP	7/1/00	18:23
Antimony	220.353	1.5	60.0	1.5	U	1	ICPST	7/1/00	18:08
Arsenic	189.042	2.6	10.0	2.6	U	1	ICPST	7/1/00	18:08
Barium	493.409	0.41	200	0.41	U	1	ICP	7/1/00	18:23
Beryllium	313.042	0.071	5.0	0.071	U	1	ICP	7/1/00	18:23
Cadmium	226.502	0.49	5.0	0.49	U	1	ICPST	7/1/00	18:08
Calcium	317.933	37.9	5000	206	B	1	ICP	7/1/00	18:23
Cobalt	228.616	3.2	50.0	3.2	U	1	ICP	7/1/00	18:23
Copper	324.754	2.2	25.0	2.2	U	1	ICP	7/1/00	18:23
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	7/1/00	18:08
Magnesium	279.079	19.9	5000	19.9	U	1	ICP	7/1/00	18:23
Manganese	257.61	0.87	15.0	0.87	U	1	ICP	7/1/00	18:23
Nickel	231.604	6.1	40.0	6.1	U	1	ICP	7/1/00	18:23
Potassium	766.491	496	5000	496	U	1	ICP	7/1/00	18:23
Selenium	220.353	2.1	5.0	2.1	U	1	ICPST	7/1/00	18:08
Silver	328.068	0.94	10.0	0.94	U	1	ICPST	7/1/00	18:08
Sodium	588.995	14.5	5000	84.2	B	1	ICP	7/1/00	18:23
Thallium	190.864	3.9	10.0	3.9	U	1	ICPST	7/1/00	18:08
Vanadium	292.402	1.8	50.0	1.8	U	1	ICP	7/1/00	18:23
Zinc	213.856	3.7	20.0	8.3	B	1	ICPST	7/1/00	18:08

Comments: Lot #: C0F300207

Version 3.63.4

U Result is less than the MDL

Form 3 Equivalent

B Result is between MDL and RL

STL-Pittsburgh

663 682

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DFNERBMatrix: Water Units: ug/L Prep Date: 7/3/00 Prep Batch: 0185113Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Chromium	267.716	1.0	10.0	1.0	U	1	ICPST	7/3/00	18:59
Iron	259.94	8.8	100	8.8	U	1	ICP	7/3/00	18.04

Comments: Lot #: C0F300207

Version 3.63.4

U Result is less than the MDL

Form 3 Equivalent

B Result is between MDL and RL

STL-Pittsburgh
Metals Data Reporting Form

663 683

Interference Check Standard A

Instrument: ICP

Units: ug/L

Chart Number: J00701A.ARC

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0014-129-11

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 7/1/00 3:33 PM	Found	Found	Found	Found
				Found				
Aluminum	308.215		500000	492000				
Barium	493.409	200		2				
Beryllium	313.042	5		0				
Calcium	317.933		500000	479000				
Cobalt	228.616	50		11				
Copper	324.754	25		-7				
Magnesium	279.079		500000	488000				
Manganese	257.61	15		4				
Nickel	231.604	40		-21				
Potassium	766.491	5000		-91				
Sodium	588.995	5000		5				
Vanadium	292.402	50		3				

STL-Pittsburgh
Metals Data Reporting Form

663 684

Interference Check Standard A

Instrument: ICP

Units: ug/L

Chart Number: J00703A.ARC

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0014-129-11

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 7/3/00 2:23 PM	Found	Found	Found	Found	Found
				Found					
Iron	259.94		200000	183000					

STL-Pittsburgh
Metals Data Reporting Form

663 685

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: T00701A.ARC

Acceptable Range: 0% - 0%

Standard Source: Inorganic Ventures

Standard ID: 0014-129-11

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 7/1/00 3:40 PM	Found	Found	Found	Found	Found
				Found					
Antimony	220.353	60		2					
Arsenic	189.042	10		2					
Cadmium	226.502	5		-4					
Lead	220.353	3		-4					
Selenium	220.353	5		0					
Silver	328.068	10		0					
Thallium	190.864	10		2					
Zinc	213.856	20		-2					

STL-Pittsburgh
Metals Data Reporting Form

663 686

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: T00703A.ARC

Acceptable Range: 0% - 0%

Standard Source: Inorganic Ventures

Standard ID: 0014-129-11

				ICSA 7/3/00 2:27 PM				
Element	WL/ Mass	Reporting Limit	True Conc	Found	Found	Found	Found	Found
Chromium	267.716	10		3				

STL-Pittsburgh
Metals Data Reporting Form

663 687

Interference Check Standard AB

Instrument: ICP

Units: ug/L

Chart Number: J00701A.ARC

Acceptable Range: 80% - 120%

Standard Source: Inorganic Ventures

Standard ID: 0014-104-1

Element	WL/ Mass	True Conc	ICSAB 7/1/00 3:36 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	308.215	500000	490488.4	98.1								
Barium	493.409	500	460.7	92.1								
Beryllium	313.042	500	449.7	89.9								
Calcium	317.933	500000	473920.6	94.8								
Cobalt	228.616	500	451.0	90.2								
Copper	324.754	500	474.6	94.9								
Magnesium	279.079	500000	484168.1	96.8								
Manganese	257.61	500	451.9	90.4								
Nickel	231.604	1000	871.1	87.1								
Potassium	766.491	10000	9800.3	98.0								
Sodium	588.995	10000	9987.7	99.9								
Vanadium	292.402	500	451.6	90.3								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPUnits: ug/LChart Number: J00703A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0014-104-1

Element	WL/ Mass	True Conc	ICSAB 7/3/00 2:26 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Iron	259.94	200000	180892.6	90.4								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPSTUnits: ug/LChart Number: T00701A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0014-136-3

Element	WL/ Mass	True Conc	ICSAB 7/1/00 3:44 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	1000	1030.8	103.1								
Arsenic	189.042	1000	1013.0	101.3								
Cadmium	226.502	1000	917.9	91.8								
Lead	220.353	1000	968.1	96.8								
Selenium	220.353	1000	1024.9	102.5								
Silver	328.068	1000	1088.9	108.9								
Thallium	190.864	1000	1019.6	102.0								
Zinc	213.856	1000	1031.1	103.1								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPSTUnits: ug/LChart Number: T00703A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0014-136-3

Element	WL/ Mass	True Conc	ICSAB 7/3/00 2:31 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Chromium	267.716	500	508.6	101.7								

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DFKQ3S

Original Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001S

Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095

Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.088	B	1.1		1	103.2	1	1	CVAA	7/1/00	12:12	7/1/00	12:14

Comments. Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DFKQ3D

Original Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001D

Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095

Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.088	B	1.1		1	102.2	1	1	CVAA	7/1/00	12:12	7/1/00	12:16

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63 4

U Result is less than the MDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Form 5A Equivalent

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DFKQ3DMatrix Spike Sample ID: DFKQ3S Client ID: DF/S1/0181/IDW/001DMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	1.1		1.1		1.0 %	1	1	CVAA	7/1/00	12:14	7/1/00	12:16

Comments: Lot #: C0F300207 Sample #. 1

Version 3.63.4

U Result is less than the MDL

Form 6 Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DFKQ3SOriginal Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001SMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	308.2	602		2550		2000	97.3	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Antimony	220.4	10.1	B	511		500	100.3	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Arsenic	189.0	13.9		2050		2000	101.8	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Barium	493.4	81.6	B	1860		2000	89.1	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Beryllium	313.0	0.071	U	46.1		50	92.2	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Cadmium	226.5	0.49	U	48.3		50	96.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Calcium	317.9	35600		83100		50000	95.1	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Cobalt	228.6	3.2	U	465		500	92.9	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Copper	324.8	21.8	B	249		250	90.8	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Lead	220.4	4.7		506		500	100.2	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Magnesium	279.1	9230		55400		50000	92.4	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Manganese	257.6	391		836		500	89.0	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Nickel	231.6	6.1	U	473		500	94.6	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Potassium	766.5	3960	B	50500		50000	93.0	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Selenium	220.4	2.1	U	2070		2000	103.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Silver	328.1	1.3	B	48.8		50	94.9	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Sodium	589	433000		468000	NC	50000		2	2	ICP	7/1/00	19:04	7/1/00	19:10
Thallium	190.9	3.9	U	2100		2000	105.1	1	1	ICPST	7/1/00	18:33	7/1/00	18:41
Vanadium	292.4	3.7	B	458		500	90.8	1	1	ICP	7/1/00	18:42	7/1/00	18:48
Zinc	213.9	71.2		605		500	106.8	1	1	ICPST	7/1/00	18:33	7/1/00	18:41

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

Form 5A Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DFKQ3DOriginal Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001DMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.2	602		2570		2000	98.5	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Antimony	220.4	10.1	B	513		500	100.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Arsenic	189.0	13.9		2040		2000	101.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Barium	493.4	81.6	B	1870		2000	89.6	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Beryllium	313.0	0.071	U	46.4		50	92.8	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Cadmium	226.5	0.49	U	47.9		50	95.8	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Calcium	317.9	35600		84300		50000	97.5	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Cobalt	228.6	3.2	U	467		500	93.4	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Copper	324.8	21.8	B	250		250	91.5	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Lead	220.4	4.7		502		500	99.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Magnesium	279.1	9230		55900		50000	93.4	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Manganese	257.6	391		850		500	91.8	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Nickel	231.6	6.1	U	478		500	95.5	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Potassium	766.5	3960	B	50400		50000	93.0	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Selenium	220.4	2.1	U	2060		2000	103.2	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Silver	328.1	1.3	B	48.6		50	94.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Sodium	589	433000		480000	NC	50000		2	2	ICP	7/1/00	19:04	7/1/00	19:13
Thallium	190.9	3.9	U	2090		2000	104.5	1	1	ICPST	7/1/00	18:33	7/1/00	18:45
Vanadium	292.4	3.7	B	464		500	92.1	1	1	ICP	7/1/00	18:42	7/1/00	18:51
Zinc	213.9	71.2		585		500	102.8	1	1	ICPST	7/1/00	18:33	7/1/00	18:45

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

Form 5A Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DFKQ3DMatrix Spike Sample ID: DFKQ3S Client ID: DF/S1/0181/IDW/001DMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	308.215	2550		2570		1.3 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Antimony	220.353	511		513		0.2 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Arsenic	189.042	2050		2040		0.2 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Barium	493.409	1860		1870		0.6 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Beryllium	313.042	46.1		46.4		0.6 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Cadmium	226.502	48.3		47.9		0.7 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Calcium	317.933	83100		84300		2.5 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Cobalt	228.616	465		467		0.5 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Copper	324.754	249		250		0.7 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Lead	220.353	506		502		0.6 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Magnesium	279.079	55400		55900		1.0 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Manganese	257.61	836		850		3.0 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Nickel	231.604	473		478		1.0 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Potassium	766.491	50500		50400		0.1 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Selenium	220.353	2070		2060		0.2 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Silver	328.068	48.8		48.6		0.4 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Sodium	588.995	468000	NC	480000	NC		2	2	ICP	7/1/00	19:10	7/1/00	19:13
Thallium	190.864	2100		2090		0.5 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45
Vanadium	292.402	458		464		1.4 %	1	1	ICP	7/1/00	18:48	7/1/00	18:51
Zinc	213.856	605		585		3.8 %	1	1	ICPST	7/1/00	18:41	7/1/00	18:45

Comments: Lot #: C0F300207 Sample #: 1

Version 3.63.4

U Result is less than the MDL

Form 6 Equivalent

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DFM19CMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183095Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	2.5	2.5	101.2		80-120	1	CVAA	7/1/00	12:09

Comments: Lot #: C0F300207

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DFM2LCMatrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	308.215	2000	1930	96.3		80-120	1	ICP	7/1/00	18:26
Antimony	220.353	500	497	99.5		80-120	1	ICPST	7/1/00	18:12
Arsenic	189.042	2000	2000	100.0		80-120	1	ICPST	7/1/00	18:12
Barium	493.409	2000	1910	95.7		80-120	1	ICP	7/1/00	18:26
Beryllium	313.042	50.0	48.4	96.8		80-120	1	ICP	7/1/00	18:26
Cadmium	226.502	50.0	48.4	96.7		80-120	1	ICPST	7/1/00	18:12
Calcium	317.933	50000	49600	99.2		80-120	1	ICP	7/1/00	18:26
Cobalt	228.616	500	481	96.2		80-120	1	ICP	7/1/00	18:26
Copper	324.754	250	241	96.3		80-120	1	ICP	7/1/00	18:26
Lead	220.353	500	495	99.1		80-120	1	ICPST	7/1/00	18:12
Magnesium	279.079	50000	49300	98.6		80-120	1	ICP	7/1/00	18:26
Manganese	257.61	500	484	96.7		80-120	1	ICP	7/1/00	18:26
Nickel	231.604	500	486	97.1		80-120	1	ICP	7/1/00	18:26
Potassium	766.491	50000	47600	95.1		80-120	1	ICP	7/1/00	18:26
Selenium	220.353	2000	2010	100.7		80-120	1	ICPST	7/1/00	18:12
Silver	328.068	50.0	47.4	94.7		80-120	1	ICPST	7/1/00	18:12
Sodium	588.995	50000	48700	97.3		80-120	1	ICP	7/1/00	18:26
Thallium	190.864	2000	2030	101.7		80-120	1	ICPST	7/1/00	18:12
Vanadium	292.402	500	476	95.2		80-120	1	ICP	7/1/00	18:26
Zinc	213.856	500	525	105.0		80-120	1	ICPST	7/1/00	18:12

Comments: Lot #: C0F300207

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DFNERCMatrix: Water Units: ug/L Prep Date: 7/3/00 Prep Batch: 0185113Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Chromium	267.716	200	203	101.5		80-120	1	ICPST	7/3/00	19:03
Iron	259.94	1000	1020	101.9		80-120	1	ICP	7/3/00	18:07

Comments: Lot #: C0F300207

Version 3.63.4

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DFKQ3POriginal Sample ID: DFKQ3 Client ID: DF/S1/0181/IDW/001Matrix: Water Units: ug/L Prep Date: 7/1/00 Prep Batch: 0183115Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	308.215	602		647	B		1	5	ICP	7/1/00	18:42	7/1/00	18:45
Antimony	220.353	10.1	B	11.9	B		1	5	ICPST	7/1/00	18:33	7/1/00	18:37
Arsenic	189.042	13.9		14.3	B		1	5	ICPST	7/1/00	18:33	7/1/00	18:37
Barium	493.409	81.6	B	83.9	B	2.8 %	1	5	ICP	7/1/00	18:42	7/1/00	18:45
Beryllium	313.042	0.071	U	0.40	B		1	5	ICP	7/1/00	18:42	7/1/00	18:45
Cadmium	226.502	0.49	U	2.5	U		1	5	ICPST	7/1/00	18:33	7/1/00	18:37
Calcium	317.933	35600		36800		3.4 %	1	5	ICP	7/1/00	18:42	7/1/00	18:45
Cobalt	228.616	3.2	U	20.9	B		1	5	ICP	7/1/00	18:42	7/1/00	18:45
Copper	324.754	21.8	B	29.5	B		1	5	ICP	7/1/00	18:42	7/1/00	18:45
Lead	220.353	4.7		9.5	U		1	5	ICPST	7/1/00	18:33	7/1/00	18:37
Magnesium	279.079	9230		9460	B	2.4 %	1	5	ICP	7/1/00	18:42	7/1/00	18:45
Manganese	257.61	391		405		3.4 %	1	5	ICP	7/1/00	18:42	7/1/00	18:45
Nickel	231.604	6.1	U	30.7	U		1	5	ICP	7/1/00	18:42	7/1/00	18:45
Potassium	766.491	3960	B	8150	B		1	5	ICP	7/1/00	18:42	7/1/00	18:45
Selenium	220.353	2.1	U	10.5	U		1	5	ICPST	7/1/00	18:33	7/1/00	18:37
Silver	328.068	1.3	B	4.7	U		1	5	ICPST	7/1/00	18:33	7/1/00	18:37
Sodium	588.995	433000		439000		1.4 %	2	10	ICP	7/1/00	19:04	7/1/00	19:07
Thallium	190.864	3.9	U	19.4	U		1	5	ICPST	7/1/00	18:33	7/1/00	18:37
Vanadium	292.402	3.7	B	12.1	B		1	5	ICP	7/1/00	18:42	7/1/00	18:45
Zinc	213.856	71.2		74.2	B		1	5	ICPST	7/1/00	18:33	7/1/00	18:37

Comments: _____

Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAAUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Mercury	253.70	0.2	0.045	3/20/00

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Aluminum	308.21	200	12.7	4/1/00
Barium	493.41	200	0.41	4/1/00
Beryllium	313.04	5	0.071	4/1/00
Calcium	317.93	5000	37.9	4/1/00
Cobalt	228.62	50	3.2	4/1/00
Copper	324.75	25	2.2	4/1/00
Iron	259.94	100	8.8	4/1/00
Magnesium	279.08	5000	19.9	4/1/00
Manganese	257.61	15	0.87	4/1/00
Nickel	231.60	40	6.1	4/1/00
Potassium	766.49	5000	496	4/1/00
Sodium	589.00	5000	14.5	4/1/00
Vanadium	292.40	50	1.8	4/1/00

STL-Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPSTUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Antimony	220.35	60	1.5	4/1/00
Arsenic	189.04	10	2.6	4/1/00
Cadmium	226.50	5	0.49	4/1/00
Chromium	267.72	10	1.0	4/1/00
Lead	220.35	3	1.9	4/1/00
Selenium	220.35	5	2.1	4/1/00
Silver	328.07	10	0.94	4/1/00
Thallium	190.86	10	3.9	4/1/00
Zinc	213.86	20	3.7	4/1/00

Metals Data Reporting Form

Inter-Element Correction FactorsInstrument: ICPSTDate of IEC's: 6/15/00

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Pb(0.000457), Se(0.00001), Tl(-0.00002)
Aluminum	308.215	Pb(-0.000157), Se(0.000011)
Chromium	267.716	Sb(0.006664)
Chromium	267.716	As(-0.002441), Sb(0.010481)
Cobalt	228.616	Se(-0.000324)
Cobalt	228.616	Cd(-0.000111), Fe(0.08869), Ni(-0.00066), Se(0.000351), Tl(0.002179)
Iron	271.441	Cd(0.00009), Pb(0.000107), Sb(0.000019), Se(-0.000024), V(-0.000349), Zn(0.000127)
Iron	271.441	Pb(0.000054), Sb(0.000021), Se(-0.000313)
Magnesium	279.078	Fe(-0.000306)
Manganese	257.61	Tl(-0.006029)
Molybdenum	202.03	Pb(-0.00068), Sb(-0.009237)
Molybdenum	202.03	Al(0.011136), As(-0.002441), Cr(-0.000312), Pb(-0.000307), Sb(-0.002657)
Nickel	231.604	Pb(0.000247), Sb(-0.000886), Zn(0.004557)
Nickel	231.604	Pb(0.000124)
Vanadium	292.402	Al(0.02185), Be(-0.0083), Cr(-0.000183), Fe(0.007812), Sb(-0.007991), Se(0.000216), Tl(0.001386)
Vanadium	292.402	Pb(-0.000475), Se(0.000099)

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICPDate of IEC's: 6/22/00

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	As(0.008043), Mn(0.00002), Pb(0.000607)
Antimony	206.838	Ni(-0.000449), Pb(-0.001338), Sn(-0.004668)
Arsenic	193.696	Cd(0.011196)
Barium	493.409	Co(0.000506)
Beryllium	313.042	Cd(0.008625)
Cadmium	228.802	Co(0.002633)
Chromium	267.716	Pb(-0.000686), Sb(0.008213), V(-0.001979)
Cobalt	228.616	Al(-0.014067), B(0.00201), Cd(-0.004523), Cu(-0.00091), Pb(-0.027395), Sb(-0.003935), Tl(0.007862)
Copper	324.754	Zn(0.00466)
Iron	259.94	Ag(-0.000239), As(0.001198), B(-0.001921), Cd(-0.000034), Cu(-0.00008), Mn(-0.000288), Mo(-0.00015), Pb(0.000239), Se(-0.002635), Sn(-0.00019), Tl(0.010326), Zn(0.000098)
Manganese	257.61	Ag(0.000201), Tl(-0.005634)
Molybdenum	202.03	Al(0.008699), Cr(-0.000292), Mn(-0.00033), Sb(0.005808), V(-0.019318)
Nickel	231.604	Cd(-0.000409), Sb(-0.009092), Zn(0.003263)
Tin	189.989	Sb(0.002262)
Titanium	334.941	Co(0.001637), Fe(-0.003475), Sb(0.001696), Sn(0.003624)
Vanadium	292.402	Ag(-0.005069), Al(0.012877), As(0.017242), Be(0.00265), Cd(0.000094), Cr(0.000568), Sb(-0.003793), Si(-0.012762), Tl(0.007148), Zn(-0.004494)

STL-Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: CVAAUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Mercury	253.70	10	1/15/00

Metals Data Reporting Form

Linear Dynamic RangesInstrument: ICPUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	308.21	600000	4/5/00
Barium	493.41	100000	4/5/00
Beryllium	313.04	15000	4/5/00
Calcium	317.93	600000	4/5/00
Cobalt	228.62	100000	4/5/00
Copper	324.75	100000	4/5/00
Iron	259.94	400000	4/5/00
Magnesium	279.08	600000	4/5/00
Manganese	257.61	100000	4/5/00
Nickel	231.60	100000	4/5/00
Potassium	766.49	1000000	4/5/00
Sodium	589.00	400000	4/5/00
Vanadium	292.40	100000	4/5/00

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPSTUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Antimony	220.35	10000	3/15/00
Arsenic	189.04	10000	3/15/00
Cadmium	226.50	5000	3/15/00
Chromium	267.72	20000	3/15/00
Lead	220.35	5000	3/15/00
Selenium	220.35	10000	3/15/00
Silver	328.07	2000	3/16/00
Thallium	190.86	10000	3/15/00
Zinc	213.86	5000	3/15/00

STL-Pittsburgh
Metals Data Reporting Form

663 709

Preparation Log

Preparation Batch: 0183095 **Instrument:** CVAA **Matrix:** Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DFM19B	7/1/00	NA	100	NA
DFM19C	7/1/00	NA	100	NA
DFKQ3	7/1/00	NA	100	NA
DFKQ3D	7/1/00	NA	100	NA
DFKQ3S	7/1/00	NA	100	NA

STL-Pittsburgh
Metals Data Reporting Form

663 710

Preparation Log

Preparation Batch: 0183115 **Instrument:** ICP **Matrix:** Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DFM2LB	7/1/00	NA	50	NA
DFM2LC	7/1/00	NA	50	NA
DFKQ3	7/1/00	NA	50	NA
DFKQ3D	7/1/00	NA	50	NA
DFKQ3S	7/1/00	NA	50	NA

STL-Pittsburgh
Metals Data Reporting Form

663 711

Preparation Log

Preparation Batch: 0185113 **Instrument:** ICP **Matrix:** Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DFNERB	7/3/00	NA	50	NA
DFNERC	7/3/00	NA	50	NA
DFKQ3	7/3/00	NA	50	NA

STL-Pittsburgh
Metals Data Reporting Form

663 712

Instrument Runlog

Instrument: CVAA

Chart Number: 0701HGA.PRN

Sample Name	Date of Analysis	Time of Analysis
Std1Rep1	7/1/00	11:45 AM
Std2Rep1	7/1/00	11:47 AM
Std3Rep1	7/1/00	11:49 AM
Std4Rep1	7/1/00	11:51 AM
Std5Rep1	7/1/00	11:53 AM
Std6Rep1	7/1/00	11:55 AM
ICV5-1	7/1/00	11:59 AM
ICB1	7/1/00	12:01 PM
CCV5-1	7/1/00	12:03 PM
CCB1	7/1/00	12:05 PM
DFM19B	7/1/00	12:07 PM
DFM19C	7/1/00	12:09 PM
DFKQ3	7/1/00	12:12 PM
DFKQ3S	7/1/00	12:14 PM
DFKQ3D	7/1/00	12:16 PM
ZZZZZZ	7/1/00	12:18 PM
ZZZZZZ	7/1/00	12:20 PM
ZZZZZZ	7/1/00	12:22 PM
ZZZZZZ	7/1/00	12:24 PM
ZZZZZZ	7/1/00	12:26 PM
CCV5-2	7/1/00	12:28 PM
CCB2	7/1/00	12:30 PM
ZZZZZZ	7/1/00	12:34 PM
ZZZZZZ	7/1/00	12:35 PM
ZZZZZZ	7/1/00	12:38 PM
ZZZZZZ	7/1/00	12:40 PM
ZZZZZZ	7/1/00	12:41 PM
ZZZZZZ	7/1/00	12:44 PM
ZZZZZZ	7/1/00	12:47 PM
ZZZZZZ	7/1/00	12:50 PM
ZZZZZZ	7/1/00	12:52 PM
ZZZZZZ	7/1/00	12:54 PM
ZZZZZZ	7/1/00	12:56 PM
ZZZZZZ	7/1/00	12:58 PM
ZZZZZZ	7/1/00	1:00 PM
ZZZZZZ	7/1/00	1:02 PM
ZZZZZZ	7/1/00	1:05 PM
ZZZZZZ	7/1/00	1:08 PM
ZZZZZZ	7/1/00	1:10 PM
ZZZZZZ	7/1/00	1:12 PM
ZZZZZZ	7/1/00	1:14 PM

STL-Pittsburgh
Metals Data Reporting Form

663 713

Instrument Runlog

Instrument: CVAA

Chart Number: 0701HGA.PRN

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/1/00	1:17 PM
ZZZZZZ	7/1/00	1:19 PM
ZZZZZZ	7/1/00	1:21 PM
ZZZZZZ	7/1/00	1:23 PM
ZZZZZZ	7/1/00	1:24 PM
ZZZZZZ	7/1/00	1:26 PM
ZZZZZZ	7/1/00	1:30 PM
ZZZZZZ	7/1/00	1:32 PM
ZZZZZZ	7/1/00	1:34 PM
ZZZZZZ	7/1/00	1:37 PM
ZZZZZZ	7/1/00	1:40 PM
ZZZZZZ	7/1/00	1:42 PM
ZZZZZZ	7/1/00	1:44 PM
ZZZZZZ	7/1/00	1:46 PM
ZZZZZZ	7/1/00	1:48 PM
ZZZZZZ	7/1/00	1:50 PM
ZZZZZZ	7/1/00	1:52 PM
ZZZZZZ	7/1/00	1:54 PM
ZZZZZZ	7/1/00	1:56 PM
ZZZZZZ	7/1/00	1:58 PM
ZZZZZZ	7/1/00	2:00 PM
ZZZZZZ	7/1/00	2:02 PM
ZZZZZZ	7/1/00	2:04 PM
ZZZZZZ	7/1/00	2:06 PM
ZZZZZZ	7/1/00	2:08 PM
ZZZZZZ	7/1/00	2:10 PM
ZZZZZZ	7/1/00	2:13 PM
ZZZZZZ	7/1/00	2:16 PM
ZZZZZZ	7/1/00	2:17 PM
ZZZZZZ	7/1/00	2:20 PM
ZZZZZZ	7/1/00	2:22 PM
ZZZZZZ	7/1/00	2:24 PM
ZZZZZZ	7/1/00	2:26 PM

STL-Pittsburgh
Metals Data Reporting Form

663 714

Instrument Runlog

Instrument: ICP

Chart Number: J00701A.ARC

Sample Name	Date of Analysis	Time of Analysis
STD1	7/1/00	3:18 PM
STD5A	7/1/00	3:21 PM
STD5B	7/1/00	3:24 PM
ICV2-1	7/1/00	3:27 PM
ICB1	7/1/00	3:30 PM
ICSA	7/1/00	3:33 PM
ICSAB	7/1/00	3:36 PM
ZZZZZZ	7/1/00	3:41 PM
ZZZZZZ	7/1/00	3:44 PM
ZZZZZZ	7/1/00	3:47 PM
ZZZZZZ	7/1/00	3:50 PM
ZZZZZZ	7/1/00	3:53 PM
ZZZZZZ	7/1/00	3:56 PM
ZZZZZZ	7/1/00	3:59 PM
ZZZZZZ	7/1/00	4:03 PM
CCV2-1	7/1/00	4:06 PM
CCB1	7/1/00	4:09 PM
ZZZZZZ	7/1/00	4:12 PM
ZZZZZZ	7/1/00	4:15 PM
ZZZZZZ	7/1/00	4:18 PM
ZZZZZZ	7/1/00	4:21 PM
ZZZZZZ	7/1/00	4:24 PM
ZZZZZZ	7/1/00	4:28 PM
ZZZZZZ	7/1/00	4:34 PM
ZZZZZZ	7/1/00	4:37 PM
ZZZZZZ	7/1/00	4:40 PM
ZZZZZZ	7/1/00	4:43 PM
CCV2-2	7/1/00	4:47 PM
CCB2	7/1/00	4:50 PM
ZZZZZZ	7/1/00	4:53 PM
ZZZZZZ	7/1/00	4:56 PM
ZZZZZZ	7/1/00	4:59 PM
ZZZZZZ	7/1/00	5:02 PM
ZZZZZZ	7/1/00	5:05 PM
ZZZZZZ	7/1/00	5:08 PM
ZZZZZZ	7/1/00	5:12 PM
CCV2-3	7/1/00	5:15 PM
CCB3	7/1/00	5:18 PM
ZZZZZZ	7/1/00	5:23 PM
ZZZZZZ	7/1/00	5:26 PM
ZZZZZZ	7/1/00	5:30 PM

STL-Pittsburgh
Metals Data Reporting Form

663 715

Instrument Runlog

Instrument: ICP

Chart Number: J00701A.ARC

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/1/00	5:33 PM
ZZZZZZ	7/1/00	5:36 PM
ZZZZZZ	7/1/00	5:39 PM
ZZZZZZ	7/1/00	5:42 PM
ZZZZZZ	7/1/00	5:45 PM
ZZZZZZ	7/1/00	5:48 PM
CCV2-4	7/1/00	5:52 PM
CCB4	7/1/00	5:55 PM
ZZZZZZ	7/1/00	5:58 PM
ZZZZZZ	7/1/00	6:01 PM
ZZZZZZ	7/1/00	6:04 PM
ZZZZZZ	7/1/00	6:07 PM
ZZZZZZ	7/1/00	6:10 PM
ZZZZZZ	7/1/00	6:13 PM
ZZZZZZ	7/1/00	6:17 PM
ZZZZZZ	7/1/00	6:20 PM
DFM2LB	7/1/00	6:23 PM
DFM2LC	7/1/00	6:26 PM
CCV2-5	7/1/00	6:29 PM
CCB5	7/1/00	6:32 PM
ZZZZZZ	7/1/00	6:35 PM
ZZZZZZ	7/1/00	6:38 PM
DFKQ3	7/1/00	6:42 PM
DFKQ3P	7/1/00	6:45 PM
DFKQ3S	7/1/00	6:48 PM
DFKQ3D	7/1/00	6:51 PM
DFKQ3	7/1/00	7:04 PM
DFKQ3P	7/1/00	7:07 PM
DFKQ3S	7/1/00	7:10 PM
DFKQ3D	7/1/00	7:13 PM
CCV2-6	7/1/00	7:16 PM
CCB6	7/1/00	7:19 PM
ZZZZZZ	7/1/00	7:22 PM
ZZZZZZ	7/1/00	7:26 PM
ZZZZZZ	7/1/00	7:29 PM
ZZZZZZ	7/1/00	7:32 PM
ZZZZZZ	7/1/00	7:35 PM
ZZZZZZ	7/1/00	7:38 PM
ZZZZZZ	7/1/00	7:41 PM

STL-Pittsburgh
Metals Data Reporting Form

663 716

Instrument Runlog

Instrument: ICP

Chart Number: J00703A.ARC

Sample Name	Date of Analysis	Time of Analysis
STD1	7/3/00	2:07 PM
STD5A	7/3/00	2:10 PM
STD5B	7/3/00	2:13 PM
ICV2-1	7/3/00	2:16 PM
ICB1	7/3/00	2:20 PM
ICSA	7/3/00	2:23 PM
ICSAB	7/3/00	2:26 PM
ZZZZZZ	7/3/00	2:30 PM
ZZZZZZ	7/3/00	2:33 PM
ZZZZZZ	7/3/00	2:36 PM
ZZZZZZ	7/3/00	2:39 PM
ZZZZZZ	7/3/00	2:43 PM
ZZZZZZ	7/3/00	2:46 PM
ZZZZZZ	7/3/00	2:49 PM
ZZZZZZ	7/3/00	2:52 PM
CCV2-1	7/3/00	2:55 PM
CCB1	7/3/00	2:58 PM
ZZZZZZ	7/3/00	3:05 PM
ZZZZZZ	7/3/00	3:08 PM
ZZZZZZ	7/3/00	3:11 PM
ZZZZZZ	7/3/00	3:14 PM
ZZZZZZ	7/3/00	3:18 PM
ZZZZZZ	7/3/00	3:21 PM
ZZZZZZ	7/3/00	3:24 PM
ZZZZZZ	7/3/00	3:27 PM
ZZZZZZ	7/3/00	3:30 PM
ZZZZZZ	7/3/00	3:33 PM
CCV2-2	7/3/00	3:36 PM
CCB2	7/3/00	3:39 PM
ZZZZZZ	7/3/00	3:43 PM
ZZZZZZ	7/3/00	3:46 PM
ZZZZZZ	7/3/00	3:49 PM
ZZZZZZ	7/3/00	3:52 PM
ZZZZZZ	7/3/00	3:55 PM
ZZZZZZ	7/3/00	3:58 PM
ZZZZZZ	7/3/00	4:01 PM
ZZZZZZ	7/3/00	4:04 PM
CCV2-3	7/3/00	4:08 PM
CCB3	7/3/00	4:11 PM
ZZZZZZ	7/3/00	4:18 PM
ZZZZZZ	7/3/00	4:21 PM

STL-Pittsburgh

663 717

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPChart Number: J00703A.ARC

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/3/00	4:24 PM
ZZZZZZ	7/3/00	4:27 PM
ZZZZZZ	7/3/00	4:30 PM
ZZZZZZ	7/3/00	4:34 PM
ZZZZZZ	7/3/00	4:37 PM
ZZZZZZ	7/3/00	4:40 PM
ZZZZZZ	7/3/00	4:43 PM
ZZZZZZ	7/3/00	4:46 PM
CCV2-4	7/3/00	4:49 PM
CCB4	7/3/00	4:52 PM
ZZZZZZ	7/3/00	4:55 PM
ZZZZZZ	7/3/00	4:59 PM
ZZZZZZ	7/3/00	5:02 PM
ZZZZZZ	7/3/00	5:05 PM
ZZZZZZ	7/3/00	5:08 PM
ZZZZZZ	7/3/00	5:11 PM
ZZZZZZ	7/3/00	5:15 PM
CCV2-5	7/3/00	5:18 PM
CCB5	7/3/00	5:21 PM
ZZZZZZ	7/3/00	5:27 PM
ZZZZZZ	7/3/00	5:30 PM
ZZZZZZ	7/3/00	5:33 PM
ZZZZZZ	7/3/00	5:36 PM
ZZZZZZ	7/3/00	5:40 PM
ZZZZZZ	7/3/00	5:43 PM
ZZZZZZ	7/3/00	5:46 PM
ZZZZZZ	7/3/00	5:49 PM
ZZZZZZ	7/3/00	5:52 PM
CCV2-6	7/3/00	5:55 PM
CCB6	7/3/00	5:58 PM
DFNERB	7/3/00	6:04 PM
DFNERC	7/3/00	6:07 PM
ZZZZZZ	7/3/00	6:10 PM
ZZZZZZ	7/3/00	6:14 PM
ZZZZZZ	7/3/00	6:17 PM
ZZZZZZ	7/3/00	6:20 PM
DFKQ3	7/3/00	6:23 PM
ZZZZZZ	7/3/00	6:26 PM
CCV2-7	7/3/00	6:29 PM
CCB7	7/3/00	6:32 PM

STL-Pittsburgh
Metals Data Reporting Form

663 718

Instrument Runlog

Instrument: ICPST

Chart Number: T00701A.ARC

Sample Name	Date of Analysis	Time of Analysis
STD1	7/1/00	3:20 PM
STD6	7/1/00	3:24 PM
STD7	7/1/00	3:28 PM
ICV3-1	7/1/00	3:32 PM
ICB1	7/1/00	3:36 PM
ICSA	7/1/00	3:40 PM
ICSAB	7/1/00	3:44 PM
ZZZZZZ	7/1/00	3:48 PM
ZZZZZZ	7/1/00	3:53 PM
ZZZZZZ	7/1/00	3:57 PM
ZZZZZZ	7/1/00	4:01 PM
ZZZZZZ	7/1/00	4:05 PM
ZZZZZZ	7/1/00	4:09 PM
ZZZZZZ	7/1/00	4:13 PM
ZZZZZZ	7/1/00	4:17 PM
CCV3-1	7/1/00	4:22 PM
CCB1	7/1/00	4:26 PM
ZZZZZZ	7/1/00	4:30 PM
ZZZZZZ	7/1/00	4:34 PM
ZZZZZZ	7/1/00	4:38 PM
ZZZZZZ	7/1/00	4:42 PM
ZZZZZZ	7/1/00	4:46 PM
ZZZZZZ	7/1/00	4:51 PM
ZZZZZZ	7/1/00	4:55 PM
ZZZZZZ	7/1/00	4:59 PM
ZZZZZZ	7/1/00	5:03 PM
ZZZZZZ	7/1/00	5:10 PM
CCV3-2	7/1/00	5:14 PM
CCB2	7/1/00	5:18 PM
ZZZZZZ	7/1/00	5:22 PM
CCV3-3	7/1/00	5:26 PM
CCB3	7/1/00	5:30 PM
ZZZZZZ	7/1/00	5:35 PM
ZZZZZZ	7/1/00	5:39 PM
ZZZZZZ	7/1/00	5:43 PM
ZZZZZZ	7/1/00	5:47 PM
ZZZZZZ	7/1/00	5:51 PM
ZZZZZZ	7/1/00	5:55 PM
ZZZZZZ	7/1/00	6:00 PM
ZZZZZZ	7/1/00	6:04 PM
DFM2LB	7/1/00	6:08 PM

STL-Pittsburgh

663 719

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPSTChart Number: T00701A.ARC

Sample Name	Date of Analysis	Time of Analysis
DFM2LC	7/1/00	6:12 PM
CCV3-4	7/1/00	6:16 PM
CCB4	7/1/00	6:20 PM
ZZZZZZ	7/1/00	6:24 PM
ZZZZZZ	7/1/00	6:29 PM
DFKQ3	7/1/00	6:33 PM
DFKQ3P	7/1/00	6:37 PM
DFKQ3S	7/1/00	6:41 PM
DFKQ3D	7/1/00	6:45 PM
CCV3-5	7/1/00	6:49 PM
CCB5	7/1/00	6:54 PM
ZZZZZZ	7/1/00	7:05 PM
ZZZZZZ	7/1/00	7:09 PM
ZZZZZZ	7/1/00	7:14 PM
ZZZZZZ	7/1/00	7:18 PM
ZZZZZZ	7/1/00	7:22 PM
ZZZZZZ	7/1/00	7:26 PM
ZZZZZZ	7/1/00	7:30 PM
ZZZZZZ	7/1/00	7:34 PM
ZZZZZZ	7/1/00	7:39 PM
ZZZZZZ	7/1/00	7:43 PM
ZZZZZZ	7/1/00	7:47 PM
ZZZZZZ	7/1/00	7:51 PM
ZZZZZZ	7/1/00	7:55 PM
ZZZZZZ	7/1/00	8:01 PM
ZZZZZZ	7/1/00	8:05 PM
ZZZZZZ	7/1/00	8:10 PM
ZZZZZZ	7/1/00	8:14 PM
ZZZZZZ	7/1/00	8:18 PM
ZZZZZZ	7/1/00	8:22 PM
ZZZZZZ	7/1/00	8:26 PM
ZZZZZZ	7/1/00	8:30 PM
ZZZZZZ	7/1/00	8:34 PM
ZZZZZZ	7/1/00	8:39 PM

STL-Pittsburgh
Metals Data Reporting Form

663 720

Instrument Runlog

Instrument: ICPST

Chart Number: T00703A.ARC

Sample Name	Date of Analysis	Time of Analysis
STD1	7/3/00	2:06 PM
STD6	7/3/00	2:11 PM
STD7	7/3/00	2:15 PM
ICV3-1	7/3/00	2:19 PM
ICB1	7/3/00	2:23 PM
ICSA	7/3/00	2:27 PM
ICSAB	7/3/00	2:31 PM
ZZZZZZ	7/3/00	2:36 PM
ZZZZZZ	7/3/00	2:40 PM
ZZZZZZ	7/3/00	2:44 PM
ZZZZZZ	7/3/00	2:48 PM
ZZZZZZ	7/3/00	2:52 PM
ZZZZZZ	7/3/00	2:56 PM
ZZZZZZ	7/3/00	3:00 PM
ZZZZZZ	7/3/00	3:05 PM
CCV3-1	7/3/00	3:09 PM
CCB1	7/3/00	3:13 PM
ZZZZZZ	7/3/00	3:31 PM
ZZZZZZ	7/3/00	3:36 PM
ZZZZZZ	7/3/00	3:40 PM
CCV3-2	7/3/00	3:44 PM
CCB2	7/3/00	3:48 PM
ZZZZZZ	7/3/00	3:55 PM
ZZZZZZ	7/3/00	3:59 PM
ZZZZZZ	7/3/00	4:04 PM
ZZZZZZ	7/3/00	4:08 PM
ZZZZZZ	7/3/00	4:12 PM
ZZZZZZ	7/3/00	4:16 PM
ZZZZZZ	7/3/00	4:20 PM
ZZZZZZ	7/3/00	4:24 PM
ZZZZZZ	7/3/00	4:28 PM
ZZZZZZ	7/3/00	4:33 PM
CCV3-3	7/3/00	4:37 PM
CCB3	7/3/00	4:41 PM
ZZZZZZ	7/3/00	4:45 PM
ZZZZZZ	7/3/00	4:49 PM
ZZZZZZ	7/3/00	4:53 PM
ZZZZZZ	7/3/00	4:58 PM
ZZZZZZ	7/3/00	5:02 PM
ZZZZZZ	7/3/00	5:06 PM
ZZZZZZ	7/3/00	5:10 PM

STL-Pittsburgh

Metals Data Reporting Form

663 721

Instrument Runlog

Instrument: ICPSTChart Number: T00703A.ARC

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/3/00	5:14 PM
ZZZZZZ	7/3/00	5:18 PM
CCV3-4	7/3/00	5:22 PM
CCB4	7/3/00	5:27 PM
ZZZZZZ	7/3/00	5:34 PM
ZZZZZZ	7/3/00	5:39 PM
ZZZZZZ	7/3/00	5:43 PM
ZZZZZZ	7/3/00	5:47 PM
ZZZZZZ	7/3/00	5:51 PM
ZZZZZZ	7/3/00	5:55 PM
ZZZZZZ	7/3/00	5:59 PM
ZZZZZZ	7/3/00	6:04 PM
ZZZZZZ	7/3/00	6:08 PM
ZZZZZZ	7/3/00	6:12 PM
CCV3-5	7/3/00	6:16 PM
CCB5	7/3/00	6:20 PM
ZZZZZZ	7/3/00	6:24 PM
ZZZZZZ	7/3/00	6:28 PM
ZZZZZZ	7/3/00	6:33 PM
ZZZZZZ	7/3/00	6:37 PM
ZZZZZZ	7/3/00	6:41 PM
ZZZZZZ	7/3/00	6:47 PM
CCV3-6	7/3/00	6:51 PM
CCB6	7/3/00	6:55 PM
DFNERB	7/3/00	6:59 PM
DFNERC	7/3/00	7:03 PM
ZZZZZZ	7/3/00	7:08 PM
ZZZZZZ	7/3/00	7:12 PM
ZZZZZZ	7/3/00	7:16 PM
ZZZZZZ	7/3/00	7:20 PM
DFKQ3	7/3/00	7:24 PM
ZZZZZZ	7/3/00	7:28 PM
CCV3-7	7/3/00	7:32 PM
CCB7	7/3/00	7:37 PM
ZZZZZZ	7/3/00	7:43 PM
ZZZZZZ	7/3/00	7:47 PM
ZZZZZZ	7/3/00	7:51 PM
ZZZZZZ	7/3/00	7:55 PM
ZZZZZZ	7/3/00	7:59 PM
ZZZZZZ	7/3/00	8:03 PM
ZZZZZZ	7/3/00	8:08 PM

STL-Pittsburgh
Metals Data Reporting Form

663 722

Instrument Runlog

Instrument: ICPST

Chart Number: T00703A.ARC

Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ	7/3/00	8:12 PM
ZZZZZZ	7/3/00	8:16 PM
ZZZZZZ	7/3/00	8:20 PM

663 723

**METALS
RAW DATA**

EdM Fauot
Analysis Report
enf 7300

Averages
COF300207
6010B

07/01/00 07:47:46 PM

page 3

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#	Sample Name	AL	BA	BE	CA	CO	CU
1	STD1	.0087	.00015	.00255	-.00017	.00004	.00024
2	STD5A		3.94962	15.6581		1.43809	2.20974
3	STD5B	10.9169			24.6667		
4	ICV2-1 0014-148-7	25.217	.99334	.97244	25.359	1.0031	.98558
5	ICB1	.00821	.00012	.00000	.82288	-.00035	-.00045
6	ICSA 0014-129-11	491.88	.00162	.00002	479.04	.01086	-.00701
7	ICSAB 0014-104-1	490.49	.46073	.44967	473.92	.45100	.47464
8	DFGH2B	.03896	-.00007	.00009	.08728	.00000	.00271
9	DFGH2C	2.0382	1.9694	.05017	52.076	.50661	.24969
10	DETV5	.02205	.09131	.00000	129.28	.00171	.00475
11	DETVR	.00091	.08992	.00000	128.80	-.00038	.00429
12	DETVRP5	.00961	.01752	-.00003	25.124	-.00210	.00022
13	DETVRS	1.9838	1.9605	.04807	181.06	.48224	.24311
14	DETVRD	2.0168	2.0109	.04889	180.85	.48709	.24741
15	DETVW	.00547	.00012	.00000	.06174	-.00209	.42934
16	CCV2-1 0014-129-12	50.416	4.9865	4.9609	50.195	4.9697	4.9894
17	CCB1	.00810	-.00022	.00006	.17565	.00000	-.00022
18	DETX2	.01649	.00023	.00003	.09714	.00000	.10513
19	DETX5	.05000	.00747	-.00002	28.139	-.00069	.38309
20	DETXL	.01151	.01580	.00000	8.9490	.00139	.20913
21	DETXT	.00232	.02359	-.00003	24.832	-.00070	.08139
22	DEV06	.00916	.00010	.00000	4.1417	-.00244	.02375
23	DEV09	.01058	.02663	.00003	23.610	.00138	1.4843
24	DEV0D	.01243	.02108	.00003	41.760	.00209	.07212
25	DEV0J	.01649	.01263	.00000	57.065	-.00174	.04273
26	DF83W	-.00133	.19401	.00000	88.608	-.00008	.02034
27	DF84H	.01742	.00035	.00006	.18971	.00069	.00972
28	CCV2-2	50.513	5.0125	5.0001	49.864	4.9579	5.0269
29	CCB2	.01181	.00015	.00064	.04505	-.00105	.00000
30	DF84J	.01555	.00020	.00015	.43118	.00139	.03075
31	DFK0AB	.00598	.00000	.00009	.09358	.00174	.00226
32	DFK0AC	2.0246	1.9842	.05107	L.06375	.51520	.25513
33	DFGTM	.04125	.00028	.00002	.21442	-.00070	.00090
34	DFGTMP5	.01149	-.00040	.00000	.05816	-.00035	-.00090
35	DFGTMS	2.1369	2.0748	.05307	.19625	.52844	.26464
36	DFGTMD	2.1052	2.0249	.05194	.22035	.51833	.25943
37	CCV2-3	50.155	4.9447	4.9778	50.482	4.9868	4.9607
38	CCB3	.00676	.00017	.00022	.00654	.00139	-.00022
39	DFJXJBT	.01457	-.00020	.00002	.04017	-.00244	.00158
40	DFJXJCT	1.9175	1.8623	.04649	L.17305	.47685	.24469
41	DFG9QBT	.01649	.00225	.00003	.12857	-.00174	.00452
42	DEXJ1T	1.7322	1.0717	.00034	435.69	.00052	.01608
43	DEXJ5T	.35567	.22794	.00012	90.024	-.00011	.00385
44	DFAM3T	1.6282	44.660	.00037	402.95	.00598	.01518
45	DFAM3P5T	1.6148	45.490	.00040	396.19	.00242	.01518
46	DFAM3ST	.37962	.24230	.00018	553.61	.36428	.01600
47	DFAM3DT	.06970	.18340	.00015	H775.53	.03666	.00501
48	CCV2-4	49.371	4.8308	4.9048	50.986	4.9809	4.8388
49	CCB4	.03469	.00314	.00323	.30296	.00242	.00249
50	DFK04B	.01466	.00000	.00032	.07869	.00034	.00316
51	DFK04C	1.9263	1.8939	.04770	49.513	.48404	.23972
52	DFGKP	2.0503	.06578	.00018	19.452	.00505	.01048
53	DFGKPP5	.42218	.01314	.00006	3.9676	.00135	.00169

#	Sample Name	AL	BA	BE	CA	CO	CU
54	DFGKPS	4.3520	1.8958	.04664	66.889	.46820	.24136
55	DFGKPD	4.4862	1.9491	.04786	68.641	.47756	.24591
56	DFGL2	5.1887	.02808	.00033	8.0205	.00282	.00996
57	DFGL6	5.9056	.02851	.00030	6.0458	.00166	.00757
58	DFM2LB	-.00455	-.00040	-.00003	.20594	.00174	.00113
59	DFM2LC	1.9269	1.9145	.04840	49.606	.48120	.24087
60	CCV2-5	49.762	4.8777	4.9386	50.863	4.9899	4.8861
61	CCB5	.00950	.00048	.00089	.02579	-.00069	.00022
62	DFJTE	.82505	.06983	.00012	19.389	.00303	.00808
63	DFJTL	.37309	.12076	.00008	85.361	.00479	.02964
64	DFKQ3	.60227	.08161	.00005	35.578	.00027	.02179
65	DFKQ3P5	.12930	.01678	.00008	7.3578	.00417	.00590
66	DFKQ3S	2.5475	1.8629	.04611	83.142	.46453	.24883
67	DFKQ3D	2.5721	1.8737	.04638	84.343	.46695	.25042
68	DFKQ3/2 NA	.31718	.04233	.00002	18.257	.00031	.01225
69	DFKQ3P10 NA	.07192	.00851	.00002	3.7813	-.00070	.00204
70	DFKQ3S/2 NA	1.3103	.96913	.02408	42.516	.23938	.12849
71	DFKQ3D/2 NA	1.3171	.98161	.02440	43.240	.24250	.13031
72	CCV2-6	49.355	4.7968	4.9002	51.503	5.0066	4.8151
73	CCB6	-.00420	-.00037	.00006	.01142	-.00139	-.00067
74	DFAM3T	1.7276	1.0718	.00044	437.71	-.00052	.01721
75	DFAM3P5T	.35479	.22977	.00009	89.476	-.00046	.00294
76	DFAM3ST	1.6626	45.794	.00041	410.12	.00362	.01563
77	DFAM3DT	1.6002	44.470	.00040	403.59	.00534	.01541
78	DFM2LC RERUN FE	1.8854	1.8389	.04732	50.102	.47988	.23431
79	CCV2-7	48.872	4.7321	4.8479	51.804	5.0015	4.7447
80	CCB7	.02323	-.00002	.00031	.03098	.00000	.00090
#	Sample Name	FE	K_	MG	MN	NA	NI
1	STD1	.00039	-.03404	.00009	.00019	.06379	.00013
2	STD5A				2.02215		1.7217
3	STD5B	29.8358	2.28425	7.35045		44.326	
4	ICV2-1 0014-148-7	26.048	25.212	25.343	1.0026	24.945	.99440
5	ICB1	.00301	-.15959	.01428	-.00024	.02191	-.00114
6	ICSA 0014-129-11	183.53	-.09058	487.84	.00370	.00508	-.02110
7	ICSAB 0014-104-1	182.48	9.8003	484.17	.45190	9.9877	.87111
8	DFGH2B	.02195	.15744	.05373	-.00024	.02327	-.00582
9	DFGH2C	1.0708	50.080	51.954	.50711	50.478	.49448
10	DETV5	.02058	6.5306	28.471	.02596	25.453	.00016
11	DETVR	.01773	6.4185	28.478	.02077	25.477	-.00131
12	DETVRP5	.00334	1.2423	5.5399	.00420	4.9496	-.00760
13	DETVRS	1.0284	55.922	78.690	.50759	74.147	.48445
14	DETVRD	1.0440	56.697	80.037	.52243	76.271	.48624
15	DETVW	.01742	-.08411	-.00136	-.00048	86.373	.00732
16	CCV2-1 0014-129-12	51.451	50.742	50.521	4.9509	51.110	4.9612
17	CCB1	.00301	-.14881	-.00680	.00000	.00406	.00149
18	DETX2	.01608	.04960	.01088	-.00048	87.311	-.00024
19	DETX5	1.3020	.50683	9.7322	.05401	13.456	-.00011
20	DETXL	.00703	1.0331	6.3051	.01977	6.2943	-.00363
21	DETXT	.00853	.87779	29.272	.00000	19.070	-.00470
22	DEV06	.21283	.31919	3.6549	.00352	7.7074	.00053
23	DEV09	.41544	.58663	9.8410	.03077	7.8942	-.00472

#	Sample Name	FE	K	MG	MN	NA	NI
24	DEV0D	.01406	2.4824	7.6990	-.00024	8.4081	.00207
25	DEV0J	.02043	1.8376	7.6969	.00173	89.2327	-.00180
26	DF83W	.01791	1.2099	27.537	.09567	72.235	.00467
27	DF84H	.01022	.66859	.05986	-.00073	146.84	-.00205
28	CCV2-2	51.336	50.395	50.762	4.9325	51.647	4.9752
29	CCB2	.00771	-.20704	-.01088	.00050	.00598	.00244
30	DF84J	.03033	1.1474	.05645	-.00023	101.15	-.00178
31	DFK0AB	.04792	.37743	.00680	-.00048	.06450	.00429
32	DFK0AC	1.0905	L.26312	L.00748	.51198	L.05602	.52780
33	DFGTM	.01742	-.25449	.03061	.00123	9.9771	-.00178
34	DFGTMP5	.00334	-.12724	.00340	-.00049	1.9911	-.00149
35	DFGTMS	1.1173	-.06254	.04489	.52608	10.180	.53981
36	DFGTMD	1.1074	.06254	.04693	.51891	10.019	.52939
37	CCV2-3	51.325	50.434	50.552	4.9469	50.775	5.0124
38	CCB3	.00268	.08627	-.00136	-.00024	.00417	-.00173
39	DFJXJBT	.00670	.24802	.00408	-.00049	.03061	-.00079
40	DFJXJCT	1.0159	L.91230	L.03741	.47661	8897.18	.47726
41	DFG9QBT	.01675	.29116	.02244	-.00024	62691.6	-.00088
42	DEXJ1T	.44372	1.3393	7.0180	.20823	-.14414	.00310
43	DEXJ5T	.09819	.46370	1.5020	.04402	282.59	.00220
44	DFAM3T	.40167	1.3286	6.5670	.19364	3589.7	.00564
45	DFAM3P5T	.39865	1.1474	6.5419	.19215	1794.8	.00173
46	DFAM3ST	.91241	1.6909	33.040	2.8720	-.14414	.02585
47	DFAM3DT	.07893	3.1985	25.193	1.8088	8896.94	.01785
48	CCV2-4	51.009	48.695	49.704	4.9305	49.139	5.0343
49	CCB4	.03419	-.08842	.02584	.00322	.12154	-.00067
50	DFK04B	.01307	.07117	.00612	.00000	.09082	-.00166
51	DFK04C	1.0550	47.992	48.980	.47966	48.114	.48760
52	DFGKP	6.6890	4.2380	3.4175	1.2695	94.750	-.00188
53	DFGKPP5	1.3721	.95544	.68636	.25945	19.179	.00069
54	DFGKPS	7.5973	51.313	50.703	1.7126	141.79	.47612
55	DFGKPD	7.8416	51.740	51.890	1.7683	146.65	.47681
56	DFGL2	3.0123	2.0273	1.8632	.45388	6.7206	.00232
57	DFGL6	7.0887	2.4026	1.6203	.56851	5.4441	.00458
58	DFM2LB	.00818	.01078	.00544	-.00074	.08415	-.00602
59	DFM2LC	H1.3475	47.559	49.281	.48346	48.647	.48547
60	CCV2-5	51.032	49.247	50.194	4.9317	49.732	5.0630
61	CCB5	.00972	-.25234	-.00544	.00074	.01694	-.00011
62	DFJTE	4.8776	4.8699	3.0624	1.1316	120.41	.00270
63	DFJTL	.22596	10.042	4.8637	.85266	344.63	.00321
64	DFKQ3	1.1720	3.9598	9.2329	.39115	H427.83	.00165
65	DFKQ3P5	.24401	1.6305	1.8917	.08090	84.301	.00137
66	DFKQ3S	2.0909	50.477	55.427	.83640	H453.15	.47305
67	DFKQ3D	2.1180	50.440	55.912	.85001	H460.57	.47762
68	DFKQ3/2 NA	.60334	2.1718	4.7556	.20163	216.70	.00576
69	DFKQ3P10 NA	.12636	.67937	.98362	.04206	43.935	-.00207
70	DFKQ3S/2 NA	1.0878	25.314	28.773	.43255	234.03	.24459
71	DFKQ3D/2 NA	1.1044	26.077	29.133	.44121	239.81	.25450
72	CCV2-6	50.954	48.430	49.921	4.9367	48.972	5.0591
73	CCB6	.00184	-.08195	-.01632	-.00049	.01434	-.00257
74	DFAM3T	.44187	1.6758	7.0568	.20848	S2690.7	.00514
75	DFAM3P5T	.09450	.32566	1.4918	.04352	287.10	.00140
76	DFAM3ST	.40736	1.3113	6.7262	.19661	S3588.1	.00207
77	DFAM3DT	.39898	1.4342	6.4861	.19166	S3589.5	.00460

VOID: Fe is out of 20% control limits in CCW.
 All samples in batch will be retested for Fe. Euf 7300

VOID: Samples over the upper range. Report Na from duplicate only.

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Analysis Report

Averages

07/01/00 07:47:46 PM

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#	Sample Name	FE	K_	MG	MN	NA	NI
78	DFM2LC RERUN FE	H1.3019	45.973	48.132	.47825	46.710	.49571
79	CCV2-7	50.698	48.240	49.343	4.9240	48.085	5.0546
80	CCB7	.00486	.40115	.01156	.00025	.02530	-.00137

#	Sample Name	V_	ZN
1	STD1	.00019	.00025
2	STD5A	1.59014	1.52389
3	STD5B		
4	ICV2-1 0014-148-7	.99122	.99876
5	ICB1	-.00024	H.23883
6	ICSA 0014-129-11	.00263	-.00066
7	ICSAB 0014-104-1	.45162	.92569
8	DFGH2B	.00000	.00244
9	DFGH2C	.49731	.51974
10	DETV5	-.00126	.01633
11	DETVR	.00000	.01764
12	DETVRP5	-.00033	.00430
13	DETVRS	.47927	.51742
14	DETVRD	.48332	.52103
15	DETVW	-.00121	.12259
16	CCV2-1 0014-129-12	4.9623	4.9693
17	CCB1	-.00088	H.04380
18	DETX2	-.00118	.01308
19	DETX5	-.00101	.20942
20	DETXL	-.00007	.02658
21	DETXT	-.00010	.02506
22	DEV06	.00082	.36196
23	DEV09	-.00004	.05602
24	DEV0D	-.00125	.02146
25	DEV0J	.00025	.02727
26	DF83W	-.00128	.00470
27	DF84H	-.00090	.01268
28	CCV2-2	4.9649	4.9464
29	CCB2	-.00220	.01065
30	DF84J	.00250	.01575
31	DFK0AB	-.00120	.01247
32	DFK0AC	.49526	.52401
33	DFGTM	.00236	.00529
34	DFGTMP5	-.00249	.00429
35	DFGTMS	.51489	.53331
36	DFGTMD	.50637	.52362
37	CCV2-3	4.9672	4.9660
38	CCB3	.00028	.00186
39	DFJXJBT	.00132	.00488
40	DFJXJCT	.47007	.49810
41	DFG9QBT	-.00064	.00815
42	DEXJ1T	.00365	.09197
43	DEXJ5T	.00244	.02093
44	DFAM3T	.00382	.08618
45	DFAM3P5T	.00262	.09980
46	DFAM3ST	.00236	.08433
47	DFAM3DT	.00363	.02160

VOID: Zn contamination in ICB1, CCB1 & CCB4. All Zn results will be reported from Trace ICP analysis. Refer to data file T00701A.
enf 7-300

#	Sample Name	V	ZN
48	CCV2-4	4.9443	4.9370
49	CCB4	.00158	H.05289
50	DFK04B	-.00118	.01052
51	DFK04C	.47433	.49005
52	DFGKP	.00374	.04749
53	DFGKPP5	-.00030	.01074
54	DFGKPS	.46528	.51107
55	DFGKPD	.47307	.52681
56	DFGL2	.00618	.05389
57	DFGL6	.00645	.03012
58	DFM2LB	.00028	.01911
59	DFM2LC	.47605	.50018
60	CCV2-5	4.9528	4.9619
61	CCB5	-.00066	.00514
62	DFJTE	.00134	.04196
63	DFJTL	.00259	.02996
64	DFKQ3	.00369	.06685
65	DFKQ3P5	.00242	.01583
66	DFKQ3S	.45788	.54855
67	DFKQ3D	.46425	.53864
68	DFKQ3/2 NA	.00125	.03545
69	DFKQ3P10 NA	.00125	.00917
70	DFKQ3S/2 NA	.23844	.28331
71	DFKQ3D/2 NA	.23958	.27963
72	CCV2-6	4.9508	4.9656
73	CCB6	-.00107	.00205
74	DFAM3T	.00250	.09338
75	DFAM3P5T	-.00004	.02073
76	DFAM3ST	.00153	.08875
77	DFAM3DT	.00397	.09914
78	DFM2LC RERUN FE	.47214	.49284
79	CCV2-7	4.9253	4.9644
80	CCB7	.00030	.00652

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enf 7-300

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	J00701A	QUANMET	07/01/00	15:18		X	IR
2	STD5A	J00701A	QUANMET	07/01/00	15:21		X	IR
3	STD5B	J00701A	QUANMET	07/01/00	15:24		X	IR
4	ICV2-1 0014-148-7	J00701A	QUANMET	07/01/00	15:27	EMF	S	CONC
5	ICB1	J00701A	QUANMET	07/01/00	15:30	EMF	S	CONC
6	ICSA 0014-129-11	J00701A	QUANMET	07/01/00	15:33	EMF	Q	CONC
7	ICSAB 0014-104-1	J00701A	QUANMET	07/01/00	15:36	EMF	Q	CONC
8	DFGH2B	J00701A	QUANMET	07/01/00	15:41	EMF	S	CONC
9	DFGH2C	J00701A	QUANMET	07/01/00	15:44	EMF	S	CONC
10	DETV5	J00701A	QUANMET	07/01/00	15:47	EMF	S	CONC
11	DETVR	J00701A	QUANMET	07/01/00	15:50	EMF	S	CONC
12	DETVRP5	J00701A	QUANMET	07/01/00	15:53	EMF	S	CONC
13	DETVRS	J00701A	QUANMET	07/01/00	15:56	EMF	S	CONC
14	DETVRD	J00701A	QUANMET	07/01/00	15:59	EMF	S	CONC
15	DETVW	J00701A	QUANMET	07/01/00	16:03	EMF	S	CONC
16	CCV2-1 0014-129-12	J00701A	QUANMET	07/01/00	16:06	EMF	S	CONC
17	CCB1	J00701A	QUANMET	07/01/00	16:09	EMF	S	CONC
18	DETX2	J00701A	QUANMET	07/01/00	16:12	EMF	S	CONC
19	DETX5	J00701A	QUANMET	07/01/00	16:15	EMF	S	CONC
20	DETXL	J00701A	QUANMET	07/01/00	16:18	EMF	S	CONC
21	DETXT	J00701A	QUANMET	07/01/00	16:21	EMF	S	CONC
22	DEV06	J00701A	QUANMET	07/01/00	16:24	EMF	S	CONC
23	DEV09	J00701A	QUANMET	07/01/00	16:28	EMF	S	CONC
24	DEV0D	J00701A	QUANMET	07/01/00	16:34	EMF	S	CONC
25	DEV0J	J00701A	QUANMET	07/01/00	16:37	EMF	S	CONC
26	DF83W	J00701A	QUANMET	07/01/00	16:40	EMF	S	CONC
27	DF84H	J00701A	QUANMET	07/01/00	16:43	EMF	S	CONC
28	CCV2-2	J00701A	QUANMET	07/01/00	16:47	EMF	S	CONC
29	CCB2	J00701A	QUANMET	07/01/00	16:50	EMF	S	CONC
30	DF84J	J00701A	QUANMET	07/01/00	16:53	EMF	S	CONC
31	DFK0AB	J00701A	QUANMET	07/01/00	16:56	EMF	S	CONC
32	DFK0AC	J00701A	QUANMET	07/01/00	16:59	EMF	S	CONC
33	DFGTM	J00701A	QUANMET	07/01/00	17:02	EMF	S	CONC
34	DFGTMP5	J00701A	QUANMET	07/01/00	17:05	EMF	S	CONC
35	DFGTMS	J00701A	QUANMET	07/01/00	17:08	EMF	S	CONC
36	DFGTMD	J00701A	QUANMET	07/01/00	17:12	EMF	S	CONC
37	CCV2-3	J00701A	QUANMET	07/01/00	17:15	EMF	S	CONC
38	CCB3	J00701A	QUANMET	07/01/00	17:18	EMF	S	CONC
39	DFJXJBT	J00701A	QUANMET	07/01/00	17:23	EMF	S	CONC
40	DFJXJCT	J00701A	QUANMET	07/01/00	17:26	EMF	S	CONC
41	DFG9QBT	J00701A	QUANMET	07/01/00	17:30	EMF	S	CONC
42	DEXJ1T	J00701A	QUANMET	07/01/00	17:33	EMF	S	CONC
43	DEXJ5T	J00701A	QUANMET	07/01/00	17:36	EMF	S	CONC
44	DFAM3T	J00701A	QUANMET	07/01/00	17:39	EMF	S	CONC
45	DFAM3P5T	J00701A	QUANMET	07/01/00	17:42	EMF	S	CONC
46	DFAM3ST	J00701A	QUANMET	07/01/00	17:45	EMF	S	CONC
47	DFAM3DT	J00701A	QUANMET	07/01/00	17:48	EMF	S	CONC
48	CCV2-4	J00701A	QUANMET	07/01/00	17:52	EMF	S	CONC
49	CCB4	J00701A	QUANMET	07/01/00	17:55	EMF	S	CONC
50	DFK04B	J00701A	QUANMET	07/01/00	17:58	EMF	S	CONC
51	DFK04C	J00701A	QUANMET	07/01/00	18:01	EMF	S	CONC
52	DFGKP	J00701A	QUANMET	07/01/00	18:04	EMF	S	CONC
53	DFGKPP5	J00701A	QUANMET	07/01/00	18:07	EMF	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DFGKPS	J00701A	QUANMET	07/01/00	18:10	EMF	S	CONC
55	DFGKPD	J00701A	QUANMET	07/01/00	18:13	EMF	S	CONC
56	DFGL2	J00701A	QUANMET	07/01/00	18:17	EMF	S	CONC
57	DFGL6	J00701A	QUANMET	07/01/00	18:20	EMF	S	CONC
58	DFM2LB	J00701A	QUANMET	07/01/00	18:23	EMF	S	CONC
59	DFM2LC	J00701A	QUANMET	07/01/00	18:26	EMF	S	CONC
60	CCV2-5	J00701A	QUANMET	07/01/00	18:29	EMF	S	CONC
61	CCB5	J00701A	QUANMET	07/01/00	18:32	EMF	S	CONC
62	DFJTE	J00701A	QUANMET	07/01/00	18:35	EMF	S	CONC
63	DFJTL	J00701A	QUANMET	07/01/00	18:38	EMF	S	CONC
64	DFKQ3	J00701A	QUANMET	07/01/00	18:42	EMF	S	CONC
65	DFKQ3P5	J00701A	QUANMET	07/01/00	18:45	EMF	S	CONC
66	DFKQ3S	J00701A	QUANMET	07/01/00	18:48	EMF	S	CONC
67	DFKQ3D	J00701A	QUANMET	07/01/00	18:51	EMF	S	CONC
68	DFKQ3/2 NA	J00701A	QUANMET	07/01/00	19:04	EMF	S	CONC
69	DFKQ3P10 NA	J00701A	QUANMET	07/01/00	19:07	EMF	S	CONC
70	DFKQ3S/2 NA	J00701A	QUANMET	07/01/00	19:10	EMF	S	CONC
71	DFKQ3D/2 NA	J00701A	QUANMET	07/01/00	19:13	EMF	S	CONC
72	CCV2-6	J00701A	QUANMET	07/01/00	19:16	EMF	S	CONC
73	CCB6	J00701A	QUANMET	07/01/00	19:19	EMF	S	CONC
74	DFAM3T	J00701A	QUANMET	07/01/00	19:22	EMF	S	CONC
75	DFAM3P5T	J00701A	QUANMET	07/01/00	19:26	EMF	S	CONC
76	DFAM3ST	J00701A	QUANMET	07/01/00	19:29	EMF	S	CONC
77	DFAM3DT	J00701A	QUANMET	07/01/00	19:32	EMF	S	CONC
78	DFM2LC RERUN FE	J00701A	QUANMET	07/01/00	19:35	EMF	S	CONC
79	CCV2-7	J00701A	QUANMET	07/01/00	19:38	EMF	S	CONC
80	CCB7	J00701A	QUANMET	07/01/00	19:41	EMF	S	CONC

Method: QUANMET Standard: STD1

Run Time: 07/01/00 15:18:02

Elem	AG	AL	AS	B	BA	BE	CA
Avge	-.00060	.00870	.00065	.00111	.00015	.00255	-.00018
SDev	.00000	.00068	.00210	.00050	.00014	.00019	.00104
%RSD	.00000	7.8521	323.08	45.026	92.441	7.5092	586.94

#1	-.00060	.00880	.00060	.00062	.00008	.00240	-.00100
#2	-.00060	.00960	-.00040	.00094	.00000	.00240	-.00066
#3	-.00060	.00840	-.00120	.00180	.00020	.00260	-.00038
#4	-.00060	.00800	.00360	.00106	.00032	.00280	.00133

Elem	CD	CO	CR	CU	FE	K	LI
Avge	.00003	.00005	.00110	.00025	.00040	-.03405	.00013
SDev	.00011	.00057	.00114	.00041	.00016	.01875	.00053
%RSD	382.97	1148.9	103.39	164.92	40.825	55.061	406.63

#1	-.00012	-.00060	.00040	-.00020	.00060	-.05140	-.00064
#2	.00012	.00000	.00060	.00020	.00040	-.03860	.00020
#3	.00000	.00000	.00060	.00020	.00020	-.03880	.00048
#4	.00012	.00080	.00280	.00080	.00040	-.00740	.00047

Elem	MG	MN	MO	NA	NI	PB	SB
Avge	.00010	.00020	.00015	.06380	.00014	.00010	-.00030
SDev	.00106	.00000	.00019	.00167	.00055	.00035	.00012
%RSD	1064.6	.00000	127.66	2.6102	401.08	346.41	38.490

#1	-.00120	.00020	.00020	.06420	.00008	-.00040	-.00020
#2	.00000	.00020	.00000	.06180	.00081	.00020	-.00020
#3	.00020	.00020	.00000	.06340	-.00054	.00020	-.00040
#4	.00140	.00020	.00040	.06580	.00020	.00040	-.00040

Elem	SE	SI	SN	SR	TI	TL	V
Avge	-.00010	.00050	.00060	.00008	.00210	-.00005	.00020
SDev	.00154	.00100	.00052	.00010	.00026	.00062	.00040
%RSD	1536.2	200.00	86.066	122.99	12.295	1238.3	200.00

#1	-.00180	.00000	.00000	.00012	.00240	.00000	.00000
#2	-.00100	.00000	.00040	.00000	.00180	.00080	.00000
#3	.00120	.00000	.00080	.00000	.00200	-.00060	.00000
#4	.00120	.00200	.00120	.00020	.00220	-.00040	.00080

Elem	ZN
Avge	.00026
SDev	.00012
%RSD	45.727

#1	.00020
#2	.00035
#3	.00012
#4	.00035

Method: QUANMET Standard: STD5A
Run Time: 07/01/00 15:21:13

0014-155-1

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Elem	AG	AS	B	BA	BE	CD	CO
Avge	.26330	.53890	.59082	3.9496	15.658	.91375	1.4381
SDev	.00093	.00141	.00419	.0258	.085	.00212	.0020
%RSD	.35357	.26155	.70873	.65225	.54237	.23211	.14251
#1	.26220	.53760	.58592	3.9304	15.593	.91567	1.4358
#2	.26440	.53780	.59552	3.9862	15.780	.91480	1.4402
#3	.26360	.54040	.59272	3.9329	15.649	.91372	1.4394
#4	.26300	.53980	.58912	3.9491	15.610	.91080	1.4370
Elem	CR	CU	LI	MN	MO	NI	PB
Avge	3.6884	2.2097	4.1856	2.0222	.40830	1.7217	.25400
SDev	.0068	.0157	.0415	.0047	.00132	.0034	.00099
%RSD	.18537	.70849	.99141	.23003	.32369	.19917	.39107
#1	3.6914	2.1948	4.1558	2.0204	.40660	1.7208	.25300
#2	3.6928	2.2316	4.2442	2.0280	.40980	1.7252	.25440
#3	3.6912	2.2040	4.1566	2.0232	.40820	1.7173	.25340
#4	3.6782	2.2086	4.1856	2.0170	.40860	1.7235	.25520
Elem	SB	SE	SI	SN	SR	TI	TL
Avge	.19465	.52440	.33610	.98295	7.6324	6.0146	.34855
SDev	.00103	.00385	.00293	.00430	.0452	.0247	.00168
%RSD	.52643	.73362	.87118	.43777	.59183	.41098	.48322
#1	.19360	.52300	.33200	.98780	7.6017	5.9952	.34940
#2	.19600	.52780	.33840	.97740	7.6986	6.0508	.35040
#3	.19420	.51960	.33800	.98400	7.6054	6.0078	.34780
#4	.19480	.52720	.33600	.98260	7.6238	6.0046	.34660
Elem	V	ZN					
Avge	1.5901	1.5239					
SDev	.0050	.0032					
%RSD	.31442	.20678					
#1	1.5868	1.5220					
#2	1.5972	1.5285					
#3	1.5902	1.5219					
#4	1.5864	1.5232					

Method: QUANMET.

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD5A	STD1	7.39418	.004437	07/01/00 03:24:22
AL	308.215	STD5B	STD1	9.16741	-.079757	07/01/00 03:24:22
AS	193.696	STD5A	STD1	18.8991	-.012284	07/01/00 03:24:22
B	249.600	STD5A	STD1	16.9915	-.018791	07/01/00 03:24:22
BA	493.409	STD5A	STD1	2.53198	-.000380	07/01/00 03:24:22
BE	313.042	STD5A	STD1	.640444	-.001633	07/01/00 03:24:22
CA	317.933	STD5B	STD1	4.05401	.000715	07/01/00 03:24:22
CD	228.802	STD5A	STD1	11.1083	-.000327	07/01/00 03:24:22
CO	228.616	STD5A	STD1	6.98707	-.000349	07/01/00 03:24:22
CR	267.716	STD5A	STD1	2.71276	-.002984	07/01/00 03:24:22
CU	324.754	STD5A	STD1	4.52179	-.001130	07/01/00 03:24:22
FE	259.940	STD5B	STD1	3.35172	-.001341	07/01/00 03:24:22
K	766.491	STD5B	STD1	43.1351	1.46875	07/01/00 03:24:22
LI	670.789	STD5A	STD1	2.38923	-.000309	07/01/00 03:24:22
MG	279.079	STD5B	STD1	13.6048	-.001360	07/01/00 03:24:22
MN	257.610	STD5A	STD1	4.94409	-.000989	07/01/00 03:24:22
MO	202.030	STD5A	STD1	24.5008	-.003675	07/01/00 03:24:22
NA	588.995	STD5B	STD1	2.25926	-.144141	07/01/00 03:24:22
NI	231.604	STD5A	STD1	5.80605	-.000803	07/01/00 03:24:22
PB	220.353	STD5A	STD1	38.2269	-.003823	07/01/00 03:24:22
SB	206.838	STD5A	STD1	51.3547	.015406	07/01/00 03:24:22
SE	196.026	STD5A	STD1	19.0658	.001907	07/01/00 03:24:22
SI	288.158	STD5A	STD1	29.4171	-.014709	07/01/00 03:24:22
SN	189.989	STD5A	STD1	10.1690	-.006101	07/01/00 03:24:22
SR	409.552	STD5A	STD1	1.31022	-.000104	07/01/00 03:24:22
TI	334.941	STD5A	STD1	1.66320	-.003493	07/01/00 03:24:22
TL	190.864	STD5A	STD1	57.6413	.002882	07/01/00 03:24:22
V	292.402	STD5A	STD1	6.15556	-.001231	07/01/00 03:24:22
ZN	213.856	STD5A	STD1	6.58573	-.001685	07/01/00 03:24:22

FINAL PAGE

PART I

ADMINISTRATIVE RECORD

PART I

FINAL PAGE