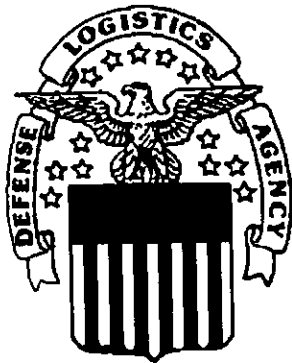


678

0

File: 541.460.000n
C.H.



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 678

**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

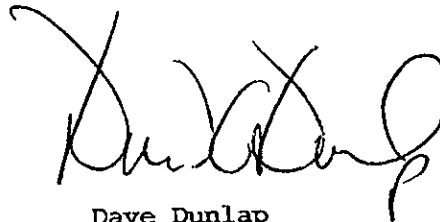
Dunn Field, Def Depot Memphis

Lot #: C1C150304

Frank Johnson

UXB International

SEVERN TRENT LABORATORIES, INC.



Dave Dunlap
Project Manager

March 26, 2001

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C1C150304

Sample Receiving:

STL Pittsburgh received one sample on March 15, 2001 in good condition and within the proper temperature range.

Volatiles:

Due to the concentration of chloroform detected, DF/24-B/1073/IDW/003 was analyzed at a dilution.

The recoveries for acetone and trans-1,3-dichloropropene were outside control limits in the LCS. The recoveries for the control analytes were within limits.

Semivolatiles:

Due to the sample matrix, sample DF/24-B/1073/IDW/003 had several surrogate recoveries outside of the control limits. This sample also had the third and sixth internal standard area counts outside of the control limits (-50% to +100% of the internal standard area counts of the daily calibration standard). The sixth internal standard was not detected at all. Bis(2-ethylhexyl)phthalate was the only compound detected which is normally quantitated from the sixth internal standard. The fifth internal standard to quantitate bis(2-ethylhexyl)phthalate.

The results of this sample were discussed with the client. Based on knowledge of the matrix (clorox based rinse water) similarities to recent analyses of other samples for the Project, it was decided reanalysis would not provide improved data. Therefore, the original results are reported.

Pesticides:

The recovery of tetrachloro-m-xylene surrogate was slightly below the control limits on column RTX-50 for sample DF/24-B/1073/IDW/003. The recovery on column RTX1701 and the recoveries of decachlorobiphenyl were within control limits.

For the continuing calibration standards analyzed on the RTX-1701 column on March 21, 2001 at 11:33 and 12:03, alpha-BHC had a %D of 15.5%. This was outside of the +/- 15%D criteria. The average %D of all of the compounds in the continuing calibration standards was 7.3%. Alpha-BHC was not detected on the RTX-1701 column. All data was reported.

PCBs:

The recovery of tetrachloro-m-xylene surrogate was outside of the control limits for sample DF/24-B/1073/IDW/003. The recovery of decachlorobiphenyl surrogate was within the control limits.

CASE NARRATIVE
UXB International Inc.
Dunn Field

673

3

LOT # C1C150304

Herbicides:

The recovery of DCAA surrogate was outside of the control limits on the RTX-1701 column for sample DF/24-B/1073/IDW/003. The recovery was within the control limits on the RTX-50 column.

The relative percent difference between the laboratory control sample and the laboratory control sample duplicate was outside of the control limits for 2,4-D. The recoveries were within the control limits. This compound was not detected in the sample. All data was reported.

Metals:

The sample and its matrix spikes were over the instrument's linear range for sodium and required a dilution.

The matrix spike and matrix spike duplicate had the recovery of aluminum outside of the control limits. All associated results are flagged with an "N" qualifier.

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.

The serial dilution percent difference was outside of the control limits for iron. All associated results are flagged with an "E" qualifier.

General Chemistry:

There were no problems associated with the analyses.

METHODS SUMMARY

C1C150304

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
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.

SAMPLE SUMMARY

C1C150304

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
DXGMH	001	DF/24-B/1073/IDW/003	03/14/01	08:08

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

Client WAB		Project Manager Frank Johnson		Date 3/14/01		Chain of Custody Number 00000000	
Address 1708 Dunn Ave		Telephone Number (Area Code)/Fax Number (901) 745-4299 (Fax - 4280)		Lab Number		Page 1 of 1	
City Memphis		State TN		Zip Code 38106		Analysis (Attach list if more space is needed)	
Project Name and Location (State) Dunn Field TN (7512-060)		Site Contact Jim Dunkle		Lab Contact		Special Instructions/ Conditions of Receipt	
Contract/Purchase Order/Quote No		Carrier/Waybill Number 825026176687					

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	
			Aq	Sed.	Sol	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
DF/24-8/1073/IDW/003	3/14/01	0808	X				8							X TCE VOA's
														X TCE BVA + BVA's
														X TCE BVA + BVA's / PCB's
														X Herbicides
														X TAL Metals
														X Total Cyanide
														X Total Sulfide
														X PH
														X Flesh part

Possible Hazard Identification		Sample Disposal	
☐ Non-Hazard	☐ Flammable	☐ Return To Client	☐ Disposal By Lab
☐ Turn Around Time Required	☐ Skin Irritant	☒ Unknown	☐ Archive For _____ Months
☐ 24 Hours	☐ 7 Days	☐ 14 Days	☐ 21 Days
☐ 48 Hours	☒ 7 Days	☐ 14 Days	☐ 21 Days

1 Relinquished By		1. Received By	
SA D Dunkle	Date 3/14/01	Date	Time
2 Relinquished By		2. Received By	
	Date	Date	Time
3 Relinquished By		3. Received By	
	Date	Date	Time

Comments

Anthony Lee

Date **3-15-01** Time **9:30**

Cooler Receipt Form
STL Pittsburgh

673

7

Client: UXB Project: _____ Qu: 31178
Cooler Rec'd & Opened for Temp Check on: 3-15-01
Coolers Opened and Unpacked on: 3-15-01 By: A
(Signature)

STL Pittsburgh Lot Number CIC150304

Yes No

1. Were custody seals on the outside of the cooler? _____
If YES, how many and where? Quantity 1 Location Front
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
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? _____

15. Samples received by: FEDEX UPS CLIENT DROP-OFF OTHER AIRBORNE

Explain any discrepancies _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

STL Pittsburgh

8

P. Preserved
UP Unpreserved

[illegible]

(1) "NUT" could include sample bottles for ammonia, chemical oxygen demand, nitrate/nitrite, TKN, or total phosphorus

Comments:

[illegible][illegible]

* Please use an astenski bottle lot number was covered by the label.

FedEx USA Airbill
Express

FedEx
Tracking
Number

825026176687

1 From
Date 3/14/01

Sender's
Name James A Darrle Phone 901 745-4999

Company UAB International (7512-066)

Address 1708 Davis Ave Dept/Floor/Room

City Memphis State TN ZIP 38106

2 Your Internal Billing Reference

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

Company Severn Trent

Address 450 William Pitt Way We cannot deliver to P.O. boxes or P.O. codes.

City Pittsburgh State PA ZIP 15238



825026176687

02:00

4a Express Package Service

☒ FedEx Priority Overnight
Next business morning

☐ FedEx 2Day[®]
Second business day

4b Express Freight Service

☐ FedEx 1Day Freight[®]
Next business day

☐ FedEx 2Day Freight[®]
Second business day

5 Packaging

☐ FedEx Envelope[®]
Letter[®]

☐ FedEx Pak[®]

6 Special Handling

☐ SUNDAY Delivery[®]
Available only for FedEx Priority Overnight and FedEx 2Day[®] to select ZIP codes

☐ HOLD Saturday at FedEx Location[®]
Available only for FedEx Priority Overnight and FedEx 2Day[®] to select ZIP codes

☐ HOLD Weekday at FedEx Location[®]
Available only for FedEx Priority Overnight and FedEx 2Day[®] to select ZIP codes

☐ CARGO AIRCRAFT ONLY

7 Payment Bill to:

☒ Sender
Account No. in Section 101 of the bill

☐ Recipient

☐ Third Party

☐ Credit Card

☐ Cash/Check

8 Release Signature

By signing you authorize us to deliver this shipment without obtaining a signature and liable to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at www.fedex.com or call 1-800-Go-FedEx (800)463-3339

Any Day 7:00 PM - 4:00 PM CST

360

673

9

678

10

SBCCOM
Monitoring Branch Laboratory

CLEARANCE REPORT

14 MARCH 2001

Dunn Field, Memphis Defense Depot

Results for Decon Water Sample Analysis

Analyst: Shawn E. Heinlein

Sample#		1,4- Thioxane	1,4- Dithiane	TDG	Mustard
DF/24B/1073/IDW/ 003		ND	ND		ND

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

TRIP= triplicate

* = samples will be analyzed for TDG

q= approximate results detected

DATA SUMMARY PACKAGE

673

12

GC/MS VOLATILE SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/15/01

Work Order: DXGMH1AA

Date Extracted: 03/16/01

Dilution factor: 25

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075223

Client Sample Id: DF/24-B/1073/IDW/003

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	500	U
71-43-2	Benzene	120	U
75-27-4	Bromodichloromethane	120	U
75-25-2	Bromoform	120	U
74-83-9	Bromomethane	250	U
78-93-3	2-Butanone	500	U
75-15-0	Carbon disulfide	120	U
56-23-5	Carbon tetrachloride	120	U
108-90-7	Chlorobenzene	120	U
124-48-1	Dibromochloromethane	120	U
75-00-3	Chloroethane	250	U
67-66-3	Chloroform	3900	
74-87-3	Chloromethane	250	U
75-34-3	1,1-Dichloroethane	120	U
107-06-2	1,2-Dichloroethane	120	U
75-35-4	1,1-Dichloroethene	120	U
540-59-0	1,2-Dichloroethene (total)	120	U
78-87-5	1,2-Dichloropropane	120	U
10061-01-5	cis-1,3-Dichloropropene	120	U
10061-02-6	trans-1,3-Dichloropropene	120	U
100-41-4	Ethylbenzene	120	U
591-78-6	2-Hexanone	500	U
75-09-2	Methylene chloride	120	U
108-10-1	4-Methyl-2-pentanone	120	J
100-42-5	Styrene	120	U
79-34-5	1,1,2,2-Tetrachloroethane	120	U
127-18-4	Tetrachloroethene	120	U
108-88-3	Toluene	120	U

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/15/01

Work Order: DXGMH1AA

Date Extracted: 03/16/01

Dilution factor: 25

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075223

Client Sample Id: DF/24-B/1073/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
71-55-6	1,1,1-Trichloroethane	120	U
79-00-5	1,1,2-Trichloroethane	120	U
79-01-6	Trichloroethene	120	U
75-01-4	Vinyl chloride	250	U
1330-20-7	Xylenes (total)	120	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C160000 223
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol. 5 / mL Date Received: 03/14/01
Work Order: DXHFG1AC Date Extracted: 03/16/01
Dilution factor: 1 Date Analyzed: 03/16/01
Moisture %: NA

QC Batch: 1075223

Client Sample Id: CHECK SAMPLE

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	22.9	a
71-43-2	Benzene	56.2	
75-27-4	Bromodichloromethane	58.7	
75-25-2	Bromoform	62.5	
74-83-9	Bromomethane	57.6	
78-93-3	2-Butanone	40.1	
75-15-0	Carbon disulfide	47.4	
56-23-5	Carbon tetrachloride	62.8	
108-90-7	Chlorobenzene	57.1	
124-48-1	Dibromochloromethane	62.2	
75-00-3	Chloroethane	60.3	
67-66-3	Chloroform	54.9	
74-87-3	Chloromethane	58.0	
75-34-3	1,1-Dichloroethane	53.9	
107-06-2	1,2-Dichloroethane	54.1	
75-35-4	1,1-Dichloroethene	46.2	
540-59-0	1,2-Dichloroethene (total)	114	
78-87-5	1,2-Dichloropropane	55.1	
10061-01-5	cis-1,3-Dichloropropene	52.6	
10061-02-6	trans-1,3-Dichloropropene	57.4	a
100-41-4	Ethylbenzene	58.5	
591-78-6	2-Hexanone	45.7	
75-09-2	Methylene chloride	63.9	
108-10-1	4-Methyl-2-pentanone	50.2	
100-42-5	Styrene	55.2	
79-34-5	1,1,2,2-Tetrachloroethane	58.8	
127-18-4	Tetrachloroethene	58.0	
108-88-3	Toluene	54.9	

673 16

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C160000 223
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)Sample WT/Vol: 5 / mL Date Received: 03/14/01
Work Order: DXHFG1AC Date Extracted: 03/16/01
Dilution factor: 1 Date Analyzed: 03/16/01
Moisture %: NA

QC Batch: 1075223

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	57.5	
79-00-5	1,1,2-Trichloroethane	54.9	
79-01-6	Trichloroethene	58.4	
75-01-4	Vinyl chloride	57.1	
1330-20-7	Xylenes (total)	175	

FORM I

Lab Name: Severn Trent Laboratories, Inc

Client: UXB INTERNATIONAL

Lab Code: STL PIT

SDG No:

Lot #: C1C150304

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC	94	95	93	102	00
02	DF/24-B/1073/IDW/003	97	91	98	104	00
03	METHOD BLK. DXHFG1AA	94	93	92	101	00
04	LCS DXHFG1AC	95	98	100	104	00
05	LAB MS/MSD D	93	97	102	103	00
06	LAB MS/MSD S	93	98	102	104	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

673

13

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C160000

WO #: DXHFG1AC

BATCH: 1075223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,1-Dichloroethene	50.0	46.2	92	65 - 119	
Trichloroethene	50.0	58.4	117	80 - 122	
Benzene	50.0	56.2	112	79 - 116	
Toluene	50.0	54.9	110	76 - 119	
Chlorobenzene	50.0	57.1	114	81 - 115	
Acetone	50.0	22.9	46*	60 - 134	a
Bromodichloromethane	50.0	58.7	117	70 - 130	
Bromoform	50.0	62.5	125	70 - 130	
Bromomethane	50.0	57.6	115	70 - 130	
2-Butanone	50.0	40.1	80	35 - 156	
Carbon disulfide	50.0	47.4	95	80 - 116	
Carbon tetrachloride	50.0	62.8	126	72 - 133	
Chloroethane	50.0	60.3	121	70 - 130	
Chloroform	50.0	54.9	110	81 - 122	
Chloromethane	50.0	58.0	116	70 - 130	
Dibromochloromethane	50.0	62.2	124	70 - 130	
1,1-Dichloroethane	50.0	53.9	108	80 - 113	
1,2-Dichloroethane	50.0	54.1	108	73 - 127	
1,2-Dichloroethene (total)	100	114	114	70 - 130	
1,2-Dichloropropane	50.0	55.1	110	70 - 130	
Ethylbenzene	50.0	58.5	117	70 - 130	
2-Hexanone	50.0	45.7	91	60 - 130	
Methylene chloride	50.0	63.9	128	70 - 130	
1,1,2-Trichloroethane	50.0	54.9	110	70 - 130	
1,1,1-Trichloroethane	50.0	57.5	115	70 - 130	
cis-1,3-Dichloropropene	50.0	52.6	105	80 - 110	
trans-1,3-Dichloropropene	50.0	57.4	115*	80 - 114	a
4-Methyl-2-pentanone	50.0	50.2	100	62 - 129	
Styrene	50.0	55.2	110	70 - 130	
1,1,2,2-Tetrachloroethane	50.0	58.8	118	70 - 130	
Tetrachloroethene	50.0	58.0	116	78 - 131	

(Continued on next page)

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No.

Lot #: C1C160000

WO #: DXHFG1AC

BATCH: 1075223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Xylenes (total)	150	175	117	37 - 162	
Vinyl chloride	50.0	57.1	114	53 - 134	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits

* Values outside of QC limits

Spike Recovery: 2 out of 33 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C140261

WO #: DXD2J1AD

BATCH: 1075223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	50.0	ND	40.5	81	57 - 138	
Trichloroethene	50.0	ND	52.1	104	58 - 141	
Benzene	50.0	ND	51.0	100	73 - 123	
Toluene	50.0	ND	50.5	101	67 - 129	
Chlorobenzene	50.0	ND	52.5	105	70 - 122	
Acetone	50.0	ND	22.6	45*	60 - 134	a
Bromodichloromethane	50.0	ND	51.0	102	70 - 130	
Bromoform	50.0	ND	56.3	113	70 - 130	
Bromomethane	50.0	ND	48.6	97	70 - 130	
2-Butanone	50.0	ND	36.4	73	10 - 151	
Carbon disulfide	50.0	ND	41.9	84	80 - 116	
Carbon tetrachloride	50.0	ND	54.5	109	61 - 143	
Chloroethane	50.0	ND	54.0	108	70 - 130	
Chloroform	50.0	ND	48.4	97	65 - 131	
Chloromethane	50.0	ND	49.4	99	70 - 130	
Dibromochloromethane	50.0	ND	53.7	107	70 - 130	
1,1-Dichloroethane	50.0	ND	47.8	96	80 - 113	
1,2-Dichloroethane	50.0	ND	48.4	97	67 - 132	
1,2-Dichloroethene (total)	100	ND	100	100	70 - 130	
1,2-Dichloropropane	50.0	ND	48.5	97	70 - 130	
cis-1,3-Dichloropropene	50.0	ND	46.9	94	80 - 110	
trans-1,3-Dichloropropene	50.0	ND	50.6	101	80 - 114	
Ethylbenzene	50.0	3.4	56.2	106	70 - 130	
2-Hexanone	50.0	ND	44.0	88	60 - 130	
Methylene chloride	50.0	ND	40.7	81	70 - 130	
4-Methyl-2-pentanone	50.0	ND	47.4	95	62 - 129	
Styrene	50.0	ND	50.8	102	70 - 130	
1,1,2,2-Tetrachloroethane	50.0	ND	55.2	110	70 - 130	

(Continued on next page)

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C140261

WO #: DXD2J1AD

BATCH: 1075223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Tetrachloroethene	50.0	ND	52.1	104	70 - 130	
1,1,2-Trichloroethane	50.0	ND	49.5	99	70 - 130	
1,1,1-Trichloroethane	50.0	ND	50.9	102	70 - 130	
Xylenes (total)	150	ND	163	107	37 - 162	
Vinyl chloride	50.0	ND	50.6	101	51 - 133	

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 33 outside limits

COMMENTS:

673

22

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C140261

WO #: DXD2J1AE

BATCH: 1075223

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
1,1-Dichloroethene	50.0	43.1	86	6.2	20	57 - 138	
Trichloroethene	50.0	53.5	107	2.7	20	58 - 141	
Benzene	50.0	52.5	103	2.9	20	73 - 123	
Toluene	50.0	51.3	103	1.5	20	67 - 129	
Chlorobenzene	50.0	53.1	106	1.2	20	70 - 122	
Acetone	50.0	22.5	45*	0.62	32	60 - 134	a
Bromodichloromethane	50.0	53.3	107	4.3	20	70 - 130	
Bromoform	50.0	57.9	116	2.8	20	70 - 130	
Bromomethane	50.0	58.0	116	18	23	70 - 130	
2-Butanone	50.0	37.9	76	4.0	34	10 - 151	
Carbon disulfide	50.0	43.6	87	4.1	20	80 - 116	
Carbon tetrachloride	50.0	57.5	115	5.2	20	61 - 143	
Chloroethane	50.0	55.0	110	1.9	24	70 - 130	
Chloroform	50.0	49.9	100	3.1	20	65 - 131	
Chloromethane	50.0	52.2	104	5.6	25	70 - 130	
Dibromochloromethane	50.0	55.8	112	3.7	20	70 - 130	
1,1-Dichloroethane	50.0	49.2	98	2.9	22	80 - 113	
1,2-Dichloroethane	50.0	50.1	100	3.3	20	67 - 132	
1,2-Dichloroethene (total	100	103	103	3.2	25	70 - 130	
1,2-Dichloropropane	50.0	50.5	101	4.1	20	70 - 130	
cis-1,3-Dichloropropene	50.0	48.5	97	3.4	20	80 - 110	
trans-1,3-Dichloropropene	50.0	52.3	105	3.4	32	80 - 114	
Ethylbenzene	50.0	57.0	107	1.2	25	70 - 130	
2-Hexanone	50.0	45.4	91	3.1	24	60 - 130	
Methylene chloride	50.0	49.0	98	18	20	70 - 130	
4-Methyl-2-pentanone	50.0	49.4	99	4.1	34	62 - 129	
Styrene	50.0	51.6	103	1.5	22	70 - 130	
1,1,2,2-Tetrachloroethane	50.0	56.0	112	1.5	20	70 - 130	

(Continued on next page)

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No.

Matrix Spike ID: LAB MS/MSD

Lot #: C1C140261

WO #: DXD2J1AE

BATCH: 1075223

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Tetrachloroethene	50.0	53.7	107	3.0	20	70 - 130	
1,1,2-Trichloroethane	50.0	50.5	101	2.1	23	70 - 130	
1,1,1-Trichloroethane	50.0	52.8	106	3.6	24	70 - 130	
Xylenes (total)	150	165	108	1.4	20	37 - 162	
Vinyl chloride	50.0	53.2	106	5.0	20	51 - 133	

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 33 outside limitsSpike Recovery: 1 out of 33 outside limits

COMMENTS :

673 24

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXHFG1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID. 4031601.D

Lot Number: C1C150304

Date Analyzed: 03/16/01

Time Analyzed: 08:11

Matrix: WATER

Date Extracted: 03/16/01

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	INTRA-LAB QC	DXD2J1AA	4031602.D	03/16/01	08:36
02	LAB MS/MSD	DXD2J1AD S	4031604.D	03/16/01	09:24
03	LAB MS/MSD	DXD2J1AE D	4031605.D	03/16/01	09:46
04	DF/24-B/1073/IDW/003	DXGMH1AA	4031612.D	03/16/01	13.01
05	CHECK SAMPLE	DXHFG1AC C	4031603.D	03/16/01	09:01
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

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C160000 223

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/14/01

Work Order: DXHFG1AA

Date Extracted 03/16/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075223

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

673 26

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C160000 223

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/14/01

Work Order: DXHFG1AA

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075223

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

FORM I

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY **673**

27

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab File ID (Standard): CC40316

Date Analyzed: 03/16/01

Instrument ID: HP4

Time Analyzed: 0713

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	128535	10.13	187438	12.46	611531	7.01
UPPER LIMIT	257070	10.33	374876	12.66	1223062	7.21
LOWER LIMIT	64268	9.93	93719	12.26	305766	6.81
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	123483	10.13	182206	12.46	614238	7.01
02 INTRA-LAB CH	125529	10.12	188078	12.46	588755	7.00
03 DF/24-B/1073	116527	10.13	172696	12.46	557885	7.01
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
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.

678 28

GC/MS SEMIVOLATILE SUMMARY

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1AC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

Client Sample Id: DF/24-B/1073/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(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	8.4	J
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

678 30

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1AC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

Client Sample Id: DF/24-B/1073/IDW/003

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

FORM I

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1AC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

Client Sample Id: DF/24-B/1073/IDW/003

CAS NO	COMPOUND	CONCENTRATION UNITS	
		(ug/L or ug/kg)	ug/L
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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C190000 245

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXLAE1AC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	35.3	
59-50-7	4-Chloro-3-methylphenol	48.0	
95-57-8	2-Chlorophenol	51.1	
106-46-7	1,4-Dichlorobenzene	34.9	
121-14-2	2,4-Dinitrotoluene	30.0	
100-02-7	4-Nitrophenol	39.4	
621-64-7	N-Nitrosodi-n-propylamine	31.7	
87-86-5	Pentachlorophenol	41.8	
108-95-2	Phenol	46.3	
129-00-0	Pyrene	38.3	
120-82-1	1,2,4-Trichlorobenzene	35.7	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

678 33

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

Matrix: (soil/water) WATER Lab Sample ID: C1C190000 245
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/15/01
Work Order: DXLAE1AD Date Extracted: 03/19/01
Dilution factor: 1 Date Analyzed: 03/21/01
Moisture %: NA QC Batch: 1078245

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
83-32-9	Acenaphthene	31.3	
59-50-7	4-Chloro-3-methylphenol	41.5	
95-57-8	2-Chlorophenol	45.2	
106-46-7	1,4-Dichlorobenzene	31.6	
121-14-2	2,4-Dinitrotoluene	25.8	
100-02-7	4-Nitrophenol	32.1	
621-64-7	N-Nitrosodi-n-propylamine	28.6	
87-86-5	Pentachlorophenol	33.0	
108-95-2	Phenol	40.8	
129-00-0	Pyrene	34.1	
120-82-1	1,2,4-Trichlorobenzene	32.2	

Lab Name: Severn Trent Laboratories, Inc

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No.

Lot #: C1C150304

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/24-B/1073/IDW/003	3.3*	298*	82	14	0.0*	0.0*	04
02	METHOD BLK. DXLAE1AA	75	84	82	86	75	71	00
03	LCS DXLAE1AC	61	72	69	78	61	60	00
04	LCSD DXLAE1AD	53	62	62	68	53	51	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

Lab Name: Severn Trent Laboratories, Inc

Client UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C190000

WO #: DXLAE1AC

BATCH: 1078245

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Phenol	75.0	46.3	62	10 - 131	
2-Chlorophenol	75.0	51.1	68	19 - 124	
1,4-Dichlorobenzene	50.0	34.9	70	28 - 110	
N-Nitrosodi-n-propylamine	50.0	31.7	63	30 - 115	
1,2,4-Trichlorobenzene	50.0	35.7	71	31 - 110	
4-Chloro-3-methylphenol	75.0	48.0	64	29 - 124	
Acenaphthene	50.0	35.3	71	39 - 118	
4-Nitrophenol	75.0	39.4	53	19 - 144	
2,4-Dinitrotoluene	50.0	30.0	60	47 - 131	
Pentachlorophenol	75.0	41.8	56	10 - 140	
Pyrene	50.0	38.3	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: STLPIIT

SDG No:

Lot #: C1C190000

WO #: DXLAE1AD

BATCH 1078245

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	40.8	54	10 - 131	
2-Chlorophenol	75.0	45.2	60	19 - 124	
4-Chloro-3-methylphenol	75.0	41.5	55	29 - 124	
Acenaphthene	50.0	31.3	63	39 - 118	
4-Nitrophenol	75.0	32.1	43	19 - 144	
1,4-Dichlorobenzene	50.0	31.6	63	28 - 110	
N-Nitrosodi-n-propylamine	50.0	28.6	57	30 - 115	
1,2,4-Trichlorobenzene	50.0	32.2	64	31 - 110	
2,4-Dinitrotoluene	50.0	25.8	52	47 - 131	
Pentachlorophenol	75.0	33.0	44	10 - 140	
Pyrene	50.0	34.1	68	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.

DXLAE1AA

Lab Name Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: F0321001.

Lot Number: C1C150304

Date Analyzed: 03/21/01

Time Analyzed: 12.35

Matrix: WATER

Date Extracted: 03/19/01

GC Column: HP5MS ID: .25

Extraction Method: 3520C

Instrument ID: 722

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/24-B/1073/IDW/003	DXGMH1AC	F0321004.	03/21/01	14:13
02	CHECK SAMPLE	DXLAE1AC C	F0321002.	03/21/01	13:08
03	DUPLICATE CHECK	DXLAE1AD L	F0321003.	03/21/01	13:40
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

UXB INTERNATIONAL
 METHOD BLANK COMPOUNDS

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

 Matrix: (soil/water) WATER Lab Sample ID: C1C190000 245
 Method: SW846 8270C
 Base/Neutrals and Acids (8270C)

 Sample WT/Vol: 1000 / mL Date Received: 03/15/01
 Work Order: DXLAE1AA Date Extracted: 03/19/01
 Dilution factor: 1 Date Analyzed: 03/21/01
 Moisture %: NA

QC Batch: 1078245

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

678

39

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C190000 245

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXLAE1AA

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
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

FORM I

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C190000 245

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXLAE1AA

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

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

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

678 41

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: CIC/50304

Lab File ID (Standard): F03210C2

Date Analyzed: 03/21/01

Instrument ID: 722

Time Analyzed: 1203

	IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (ANT)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	202244	5.06	742404	6.60	374869	9.63
UPPER LIMIT	404488	5.56	1484808	7.10	749738	10.13
LOWER LIMIT	101122	4.56	371202	6.10	187435	9.13
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	178424	5.06	692132	6.59	391212	9.62
02 INTRA-LAB CH	189691	5.07	738170	6.60	408379	9.63
03 INTRA-LAB CH	227072	5.07	891814	6.60	503558	9.63
04 DF/24-B/1073	169228	5.07	638586	6.60	1165*	10.13*
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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

CIC150304

Lab File ID (Standard): F03210C2

Date Analyzed: 03/21/01

Instrument ID: 722

Time Analyzed: 1203

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	613392	12.93	655707	19.57	587608	22.92
UPPER LIMIT	1226784	13.43	1311414	20.07	1175216	23.42
LOWER LIMIT	306696	12.43	327854	19.07	293804	22.42
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	676950	12.93	679037	19.55	595507	22.92
02 INTRA-LAB CH	688205	12.93	647371	19.56	554687	22.92
03 INTRA-LAB CH	820453	12.93	736713	19.56	628362	22.92
04 DF/24-B/1073	612553	12.94	604055	19.58		
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

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1AD

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/20/01

Moisture %: NA

QC Batch: 1075434

Client Sample Id: DF/24-B/1073/IDW/003

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.023	J P
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	0.016	J
5103-74-2	gamma-Chlordane	0.020	J
72-54-8	4,4'-DDD	0.050	U
72-55-9	4,4'-DDE	0.013	J P
50-29-3	4,4'-DDT	0.014	J P
60-57-1	Dieldrin	0.025	J
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	0.015	J P
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

Lab Sample ID: C1C160000 434

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXJT71AC

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1075434

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.223	
58-89-9	gamma-BHC (Lindane)	0.235	
50-29-3	4,4'-DDT	0.443	
60-57-1	Dieldrin	0.456	
72-20-8	Endrin	0.479	
76-44-8	Heptachlor	0.232	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C160000 434

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXJT71AD

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1075434

Client Sample Id: DUPLICATE CHECK

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.214	
58-89-9	gamma-BHC (Lindane)	0.226	
50-29-3	4,4'-DDT	0.421	
60-57-1	Dieldrin	0.436	
72-20-8	Endrin	0.451	
76-44-8	Heptachlor	0.223	

2E
WATER PESTICIDE SURROGATE RECOVERY

678 47

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: C1C150304
 GC Column(1): RTX-50 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	DF/24-B/1073	70	38*	86	84	~~83~~ 20		01
02	PBLK5434	80	82	95	93			0
03	LCS5434	90	102	98	98			0
04	LCD5434	88	100	96	95			0
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								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (20-141) 39-130
 S2 (DCB) = Decachlorobiphenyl (63-130) 10-147

(um 3.22.01)

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

673 48

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C160000

WO #: DXJT71AC

BATCH: 1075434

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.235	94	49 - 137	
Heptachlor	0.250	0.232	93	57 - 124	
Aldrin	0.250	0.223	89	62 - 120	
Dieldrin	0.500	0.456	91	68 - 130	
Endrin	0.500	0.479	96	46 - 137	
4,4'-DDT	0.500	0.443	89	60 - 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C160000

WO #: DXJT71AD

BATCH: 1075434

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.226	91	49 - 137	
Heptachlor	0.250	0.223	89	57 - 124	
Aldrin	0.250	0.214	86	62 - 120	
Dieldrin	0.500	0.436	87	68 - 130	
Endrin	0.500	0.451	90	46 - 137	
4,4'-DDT	0.500	0.421	84	60 - 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

678 50 4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK5434

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab Sample ID: DXJT71AA

Lab File ID: C-A2150

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW3510

Sulfur Cleanup (Y/N) N

Date Extracted: 03/16/01

Date Analyzed (1): 03/20/01

Date Analyzed (2): 03/20/01

Time Analyzed (1): 1856

Time Analyzed (2): 1856

Instrument ID (1): GC3

Instrument ID (2): GC3

GC Column (1): RTX-50

ID: 0.53(mm)

GC Column (2): RTX-1701

ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	DF/24-B/1073	DXGMH1AD	03/20/01	03/20/01
02	LCS5434	DXJT71AC	03/21/01	03/21/01
03	LCD5434	DXJT71AD	03/21/01	03/21/01
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C160000 434
Method: SW846 8081A
Pesticides (8081A)

Sample WT/Vol: 1000 / mL Date Received: 03/15/01
Work Order: DXJT71AA Date Extracted: 03/16/01
Dilution factor: 1 Date Analyzed: 03/20/01
Moisture %: NA

QC Batch: 1075434

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

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1AE

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/19/01

Moisture %: NA

QC Batch: 1075419

Client Sample Id: DF/24-B/1073/IDW/003

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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C160000 419

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/16/01

Work Order: DXJP61AC

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075419

Client Sample Id: CHECK SAMPLE

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	7.38	
11096-82-5	Aroclor 1260	7.97	

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

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

Matrix: (soil/water) WATER Lab Sample ID: C1C160000 419
Method: SW846 8082
PCBs (8082)

Sample WT/Vol: 1000 / mL Date Received: 03/16/01
Work Order: DXJP61AD Date Extracted: 03/16/01
Dilution factor: 1 Date Analyzed: 03/16/01
Moisture %: NA

QC Batch: 1075419

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	7.36	
11096-82-5	Aroclor 1260	7.58	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C150304

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/24-B/1073/IDW/003	272*	86	01
02	METHOD BLK. DXJP61AA	79	85	00
03	LCS DXJP61AC	73	83	00
04	LCSD DXJP61AD	71	83	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: STLPIT

SDG No:

Lot #: C1C160000

WO #: DXJP61AC

BATCH: 1075419

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.38	74	61- 118	
Aroclor 1260	10.0	7.97	80	61- 124	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

673 58

SW846 8082 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C160000

WO #: DXJP61AD

BATCH. 1075419

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.36	74	61 - 118	
Aroclor 1260	10.0	7.58	76	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.

DXJP61AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIIT

SDG Number:

Lab File ID: H-A20605.

Lot Number: C1C150304

Matrix: WATER

Extraction Method:

Date Extracted: 03/16/01

Date Analyzed(1): 03/16/01

Date Analyzed(2): N/A

Time Analyzed(1): 20:09

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/24-B/1073/IDW/003	DXGMH1AE	03/19/01	N/A
02	CHECK SAMPLE	DXJP61AC C	03/16/01	N/A
03	DUPLICATE CHECK	DXJP61AD L	03/16/01	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER
Method: SW846 8082
PCBs (8082)

Lab Sample ID: C1C160000 419

Sample WT/Vol: 1000 / mL
Work Order: DXJP61AA
Dilution factor: 1
Moisture %: NADate Received: 03/16/01
Date Extracted: 03/16/01
Date Analyzed: 03/16/01

QC Batch: 1075419

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1CC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078453

Client Sample Id: DF/24-B/1073/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
94-75-7	2,4-D		4.0	U
93-72-1	2,4,5-TP (Silvex)		2.1	

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER
Method: SW846 8151A
Herbicides (8151A)

Lab Sample ID: C1C190000 453

Sample WT/Vol: 1000 / mL
Work Order: DXLR1A1AC
Dilution factor: 1
Moisture %: NADate Received: 03/15/01
Date Extracted: 03/19/01
Date Analyzed: 03/21/01

QC Batch: 1078453

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
94-75-7	2,4-D	11.0	
93-72-1	2,4,5-TP (Silvex)	2.94	

678

64

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C190000 453

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXLRA1AD

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078453

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
94-75-7	2,4-D	8.84		p
93-72-1	2,4,5-TP (Silvex)	2.95		

2E
WATER PESTICIDE SURROGATE RECOVERY

673 65

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: C1C150304
 GC Column(1): RTX-50 ID: 0.53 (mm) GC Column(2): DB1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	S2 1 %REC #	S2 2 %REC #	S3 1 %REC #	S3 2 %REC #	TOT OUT
01	DF/24-B/1073	69	180*					1
02	LCS8453	80						0
03	LCD8453	77						0
04	PBLK8453	76	77					0
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								

ADVISORY
QC LIMITS
(53-119)

S1 = DCAA

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

678 66

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STL PIT

SDG No:

Lot #: C1C190000

WO #: DXLRA1AC

BATCH: 1078453

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	11.0	69	46 - 124	
2,4,5-TP (Silvex)	4.00	2.94	73	53 - 127	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limitsCOMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C190000

WO #: DXLRA1AD

BATCH: 1078453

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	8.84	55	46 - 124	p
2,4,5-TP (Silvex)	4.00	2.95	74	53 - 127	

NOTES (S) :

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

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

673 68

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK8453

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab Sample ID: DXLRA1AA

Lab File ID: A-A20312

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW846 8151A

Sulfur Cleanup (Y/N) N

Date Extracted: 03/19/01

Date Analyzed (1): 03/21/01

Date Analyzed (2): 03/21/01

Time Analyzed (1): 1830

Time Analyzed (2): 1932

Instrument ID (1): GC1

Instrument ID (2): GC1

GC Column (1): RTX-50 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/24-B/1073	DXGMH1CC	03/21/01	03/21/01
02	LCS8453	DXLRA1AC	03/21/01	
03	LCD8453	DXLRA1AD	03/21/01	
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
Matrix: (soil/water) WATER Lab Sample ID: C1C190000 453
Method: SW846 8151A
Herbicides (8151A)
Sample WT/Vol: 1000 / mL Date Received: 03/15/01
Work Order: DXLR1AA Date Extracted: 03/19/01
Dilution factor: 1 Date Analyzed: 03/21/01
Moisture %: NA QC Batch: 1078453
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

673 70

METALS SUMMARY

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXGMH Client ID: DF/24-B/1073/IDW/003
Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075092
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.054	0.20	0.12	B	1	CVAA	3/16/01	10:39

Comments. Lot #: C1C150304 Sample #: 1

Version 4.10 2

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

Form I Equivalent

673

72

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXGMH Client ID: DF/24-B/1073/IDW/003
 Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131
 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	2580	N	1	ICP	3/19/01	14:57
Antimony	220.35	1.5	60.0	7.8	B	1	ICPST	3/20/01	11:43
Arsenic	189.04	2.6	10.0	6.9	B	1	ICPST	3/20/01	11:43
Barium	493.41	0.41	200	82.4	B	1	ICP	3/19/01	14:57
Beryllium	313.04	0.071	5.0	0.18	B	1	ICP	3/19/01	14:57
Cadmium	226.50	0.49	5.0	0.49	U	1	ICPST	3/20/01	11:43
Calcium	317.93	37.9	5000	37400		1	ICP	3/19/01	14:57
Chromium	267.72	1.0	10.0	29.6		1	ICPST	3/20/01	11:43
Cobalt	228.62	3.2	50.0	4.1	B	1	ICP	3/19/01	14:57
Copper	324.75	2.2	25.0	23.7	B	1	ICP	3/19/01	14:57
Iron	259.94	8.8	100	2790	E	1	ICP	3/19/01	14:57
Lead	220.35	1.9	3.0	6.8		1	ICPST	3/20/01	11:43
Magnesium	279.08	19.9	5000	6020		1	ICP	3/19/01	14:57
Manganese	257.61	0.87	15.0	196		1	ICP	3/19/01	14:57
Nickel	231.60	6.1	40.0	8.3	B	1	ICP	3/19/01	14:57
Potassium	766.49	496	5000	4840	B	1	ICP	3/19/01	14:57
Selenium	220.35	2.1	5.0	2.4	B	1	ICPST	3/20/01	11:43
Silver	328.07	0.94	10.0	0.94	U	1	ICPST	3/20/01	11:43
Sodium	589	72.5	25000	766000		5	ICP	3/20/01	13:10
Thallium	190.86	3.9	10.0	3.9	U	1	ICPST	3/20/01	11:43
Vanadium	292.40	1.8	50.0	7.5	B	1	ICP	3/19/01	14:57
Zinc	213.86	3.1	20.0	75.4		1	ICP	3/19/01	14:57

Comments: Lot #: C1C150304 Sample #: 1

Version 4.10 2

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: 0316HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 3/16/01 9:13 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U						

673

74

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10319A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 3/19/01 11:24 AM							
			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	39.0	B						
Cobalt	228.616	50	3.2	U						
Copper	324.754	25	2.2	U						
Iron	259.94	100	13.0	B						
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	30.1	B						
Vanadium	292.402	50	2.9	B						
Zinc	213.856	20	3.8	B						

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10320A.ARC

Standard Source: _____

Standard ID: _____

			ICBI 3/20/01 12:09 PM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Sodium	588.995	5000	14.5	U				

673

76

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10320A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 3/20/01 10.11 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	2.3	B						
Arsenic	189.042	10	2.6	U						
Cadmium	226.502	5	0.5	U						
Chromium	267.716	10	1.0	U						
Lead	220.353	3	1.9	U						
Selenium	220.353	5	3.7	B						
Silver	328.068	10	0.9	U						
Thallium	190.864	10	3.9	U						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0316HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/16/01 9:16 AM	CCB2 3/16/01 9:34 AM	CCB3 3/16/01 9:54 AM	CCB4 3/16/01 10:14 AM	CCB5 3/16/01 10:32 AM
			Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	0.2	0.1 U	0.1 B	0.1 U	0.1 U	0.1 U

673 78

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0316HGA.PRN

Standard Source: _____

Standard ID: _____

			CCB6 3/16/01 10:46 AM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	-0.1	B				

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10319A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/19/01 12:03 PM		CCB2 3/19/01 12:41 PM		CCB3 3/19/01 1:19 PM		CCB4 3/19/01 1:57 PM		CCB5 3/19/01 2:35 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	308.215	200	12.7	U	12.7	U	12.7	U	12.7	U	17.7	B
Barium	493.409	200	0.4	U	0.4	U	0.4	U	0.4	U	0.5	B
Beryllium	313.042	5	0.1	B	0.2	B	0.1	B	0.2	B	0.8	B
Calcium	317.933	5000	37.9	U	37.9	U	37.9	U	37.9	U	37.9	U
Cobalt	228.616	50	3.2	U	3.2	U	4.2	B	3.2	U	3.2	U
Copper	324.754	25	2.2	U	2.2	U	2.2	U	2.2	U	2.2	U
Iron	259.94	100	8.8	U	8.8	U	20.7	B	8.8	U	8.8	U
Magnesium	279.079	5000	19.9	U	19.9	U	19.9	U	19.9	U	19.9	U
Manganese	257.61	15	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U
Nickel	231.604	40	6.1	U	6.1	U	-6.5	B	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	14.5	U	17.4	B
Vanadium	292.402	50	1.8	B	1.8	U	1.8	U	1.8	U	1.8	B
Zinc	213.856	20	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U

673

80

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10319A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 3/19/01 3:13 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	0.5	B						
Calcium	317.933	5000	37.9	U						
Cobalt	228.616	50	3.2	U						
Copper	324.754	25	2.2	U						
Iron	259.94	100	8.8	U						
Magnesium	279.079	5000	19.9	U						
Manganese	257.61	15	0.9	U						
Nickel	231.604	40	-8.2	B						
Potassium	766.491	5000	496.0	U						
Sodium	588.995	5000	27.9	B						
Vanadium	292.402	50	1.8	U						
Zinc	213.856	20	3.1	U						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10320A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/20/01 12:54 PM	CCB2 3/20/01 1:32 PM				
			Found Q	Found Q	Found Q	Found Q	Found Q	Found Q
Sodium	588.995	5000	36.6 B	53.4 B				

673

82

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10320A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/20/01 11:04 AM	CCB2 3/20/01 11:57 AM	CCB3 3/20/01 12 50 PM		
			Found Q	Found Q	Found Q	Found Q	Found Q
Antimony	220.353	60	1.5 U	1.5 U	1.5 U		
Arsenic	189.042	10	2.6 U	2.6 U	2.6 U		
Cadmium	226.502	5	0.5 U	0.5 U	0.5 U		
Chromium	267.716	10	1.0 U	1.0 U	1.0 U		
Lead	220.353	3	1.9 U	1.9 U	1.9 U		
Selenium	220.353	5	2.1 B	2.1 U	2.1 U		
Silver	328.068	10	0.9 U	0.9 U	0.9 U		
Thallium	190.864	10	5.8 B	5.4 B	6.1 B		

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXG2XB
Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075092
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.054	0.20	-0.067	B	1	CVAA	3/16/01	10.35

Comments: Lot #: C1C150304

Version 4 10.2

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: DXG4QBMatrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131Weight: 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	14.4	B	1	ICP	3/19/01	14:51
Antimony	220.353	1.5	60.0	1.7	B	1	ICPST	3/20/01	11:35
Arsenic	189.042	2.6	10.0	2.6	U	1	ICPST	3/20/01	11:35
Barium	493.409	0.41	200	0.41	U	1	ICP	3/19/01	14:51
Beryllium	313.042	0.071	5.0	0.080	B	1	ICP	3/19/01	14:51
Cadmium	226.502	0.49	5.0	0.49	U	1	ICPST	3/20/01	11:35
Calcium	317.933	37.9	5000	52.7	B	1	ICP	3/19/01	14:51
Chromium	267.716	1.0	10.0	1.5	B	1	ICPST	3/20/01	11:35
Cobalt	228.616	3.2	50.0	3.2	U	1	ICP	3/19/01	14:51
Copper	324.754	2.2	25.0	2.2	U	1	ICP	3/19/01	14:51
Iron	259.94	8.8	100	23.9	B	1	ICP	3/19/01	14:51
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	3/20/01	11:35
Magnesium	279.079	19.9	5000	19.9	U	1	ICP	3/19/01	14:51
Manganese	257.61	0.87	15.0	0.87	U	1	ICP	3/19/01	14:51
Nickel	231.604	6.1	40.0	6.1	U	1	ICP	3/19/01	14:51
Potassium	766.491	496	5000	569	B	1	ICP	3/19/01	14:51
Selenium	220.353	2.1	5.0	2.1	U	1	ICPST	3/20/01	11:35
Silver	328.068	0.94	10.0	0.94	U	1	ICPST	3/20/01	11:35
Sodium	588.995	14.5	5000	121	B	1	ICP	3/19/01	14:51
Thallium	190.864	3.9	10.0	3.9	U	1	ICPST	3/20/01	11:35
Vanadium	292.402	1.8	50.0	1.8	U	1	ICP	3/19/01	14:51
Zinc	213.856	3.1	20.0	3.1	U	1	ICP	3/19/01	14:51

Comments: Lot #: C1C150304

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

678

85

Matrix Spike Sample Results

Spike Sample ID: DXGMHS
Original Sample ID: DXGMH **Client ID:** DF/24-B/1073/IDW/003S
Matrix: Water **Units:** ug/L **Prep Date:** 3/16/01 **Prep Batch:** 1075092
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	0.12	B	12		1	109.4	1	1	CVAA	3/16/01	10:39	3/16/01	10:41

Comments: Lot #: C1C150304 Sample #: 1

Version 4.10.2

- 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

673

86

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DXGMHD

Original Sample ID: DXGMH

Client ID: DF/24-B/1073/IDW/003SD

Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075092

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	0.12	B	1.2		1	112.4	1	1	CVAA	3/16/01	10:39	3/16/01	10:42

Comments: Lot #: C1C150304 Sample #: 1

Version 4.10.2

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

678

87

Matrix Spike Sample Results

Spike Sample ID: DXGMHS
Original Sample ID: DXGMH Client ID: DF/24-B/1073/IDW/003S
Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131
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	2580		5140	N	2000	128.4	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Antimony	220.4	7.8	B	501		500	98.5	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Arsenic	189.0	6.9	B	1960		2000	97.5	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Barium	493.4	82.4	B	1880		2000	89.8	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Beryllium	313.0	0.18	B	45.3		50	90.2	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Cadmium	226.5	0.49	U	45.3		50	90.6	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Calcium	317.9	37400		83300		50000	91.8	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Chromium	267.7	29.6		228		200	99.1	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Cobalt	228.6	4.1	B	451		500	89.3	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Copper	324.8	23.7	B	256		250	92.9	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Iron	259.9	2790		3710		1000	92.3	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Lead	220.4	6.8		483		500	95.2	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Magnesium	279.1	6020		52700		50000	93.3	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Manganese	257.6	196		634		500	87.7	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Nickel	231.6	8.3	B	468		500	92.0	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Potassium	766.5	4840	B	54700		50000	99.7	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Selenium	220.4	2.4	B	1970		2000	98.4	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Silver	328.1	0.94	U	51.7		50	103.4	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Sodium	589	766000		793000	NC	50000		5	5	ICP	3/20/01	13:10	3/20/01	13:16
Thallium	190.9	3.9	U	2040		2000	102.1	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Vanadium	292.4	7.5	B	459		500	90.3	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Zinc	213.9	75.4		534		500	91.7	1	1	ICP	3/19/01	14:57	3/19/01	15:03

Comments: Lot #. C1C150304 Sample #. 1

Version 4.10.2

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 Sample Results

Spike Sample ID: DXGMHDOriginal Sample ID: DXGMH Client ID: DF/24-B/1073/IDW/003SDMatrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131Weight: 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	2580	N	5370	N	2000	139.5	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Antimony	220.4	7.8	B	501		500	98.6	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Arsenic	189.0	6.9	B	1980		2000	98.8	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Barium	493.4	82.4	B	1870		2000	89.5	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Beryllium	313.0	0.18	B	45.3		50	90.1	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Cadmium	226.5	0.49	U	45.4		50	90.8	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Calcium	317.9	37400		84600		50000	94.3	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Chromium	267.7	29.6		231		200	100.8	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Cobalt	228.6	4.1	B	452		500	89.6	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Copper	324.8	23.7	B	257		250	93.3	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Iron	259.9	2790		3800		1000	101.4	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Lead	220.4	6.8		488		500	96.2	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Magnesium	279.1	6020		52800		50000	93.6	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Manganese	257.6	196		645		500	89.9	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Nickel	231.6	8.3	B	469		500	92.2	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Potassium	766.5	4840	B	54700		50000	99.7	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Selenium	220.4	2.4	B	1990		2000	99.2	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Silver	328.1	0.94	U	51.5		50	102.9	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Sodium	589	766000		797000	NC	50000		5	5	ICP	3/20/01	13:10	3/20/01	13:19
Thallium	190.9	3.9	U	2070		2000	103.4	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Vanadium	292.4	7.5	B	461		500	90.7	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Zinc	213.9	75.4		537		500	92.3	1	1	ICP	3/19/01	14:57	3/19/01	15:06

Comments: Lot #: C1C150304 Sample # 1

Version 4.10 2

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: DXGMHDMatrix Spike Sample ID: DXGMHS Client ID: DF/24-B/1073/IDW/003SDMatrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075092Weight: 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	1.2		1.2		2.7 %	1	1	CVAA	3/16/01	10:41	3/16/01	10:42

Comments. Lot #: C1C150304 Sample # 1

Version 4.10.2

- 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 6 Equivalent

673 90

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DXGMHD

Matrix Spike Sample ID: DXGMHS Client ID: DF/24-B/1073/IDW/003SD

Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131

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	5140	N	5370	N	8.3 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Antimony	220.353	501		501		0.1 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Arsenic	189.042	1960		1980		1.3 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Barium	493.409	1880		1870		0.3 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Beryllium	313.042	45.3		45.3		0.0 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Cadmium	226.502	45.3		45.4		0.2 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Calcium	317.933	83300		84600		2.7 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Chromium	267.716	228		231		1.7 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Cobalt	228.616	451		452		0.3 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Copper	324.754	256		257		0.5 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Iron	259.94	3710		3800		9.5 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Lead	220.353	483		488		1.1 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Magnesium	279.079	52700		52800		0.3 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Manganese	257.61	634		645		2.5 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Nickel	231.604	468		469		0.2 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Potassium	766.491	54700		54700		0.1 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Selenium	220.353	1970		1990		0.9 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Silver	328.068	51.7		51.5		0.5 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Sodium	588.995	793000	NC	797000	NC		5	5	ICP	3/20/01	13:16	3/20/01	13:19
Thallium	190.864	2040		2070		1.3 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Vanadium	292.402	459		461		0.5 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Zinc	213.856	534		537		0.6 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06

Comments: Lot #: C1C150304 Sample #: 1

Version 4.10.2

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 6 Equivalent

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXG2XCMatrix: WaterUnits: ug/LPrep Date: 3/16/01Prep Batch: 1075092Weight: NAVolume: 100Percent 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	99.6		80-120	1	CVAA	3/16/01	10:37

Comments: Lot #: C1C150304

Version 4 10 2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXG4QCMatrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131Weight: 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	1910	95.2		80-120	1	ICP	3/19/01	14:54
Antimony	220.353	500	491	98.2		80-120	1	ICPST	3/20/01	11:39
Arsenic	189.042	2000	1950	97.7		80-120	1	ICPST	3/20/01	11:39
Barium	493.409	2000	1890	94.6		80-120	1	ICP	3/19/01	14:54
Beryllium	313.042	50.0	46.5	92.9		80-120	1	ICP	3/19/01	14:54
Cadmium	226.502	50.0	46.6	93.3		80-120	1	ICPST	3/20/01	11:39
Calcium	317.933	50000	47800	95.7		80-120	1	ICP	3/19/01	14:54
Chromium	267.716	200	201	100.3		80-120	1	ICPST	3/20/01	11:39
Cobalt	228.616	500	466	93.2		80-120	1	ICP	3/19/01	14:54
Copper	324.754	250	238	95.3		80-120	1	ICP	3/19/01	14:54
Iron	259.94	1000	1010	100.9		80-120	1	ICP	3/19/01	14:54
Lead	220.353	500	488	97.5		80-120	1	ICPST	3/20/01	11:39
Magnesium	279.079	50000	48800	97.6		80-120	1	ICP	3/19/01	14:54
Manganese	257.61	500	463	92.7		80-120	1	ICP	3/19/01	14:54
Nickel	231.604	500	464	92.8		80-120	1	ICP	3/19/01	14:54
Potassium	766.491	50000	48600	97.2		80-120	1	ICP	3/19/01	14:54
Selenium	220.353	2000	1960	98.2		80-120	1	ICPST	3/20/01	11:39
Silver	328.068	50.0	50.2	100.4		80-120	1	ICPST	3/20/01	11:39
Sodium	588.995	50000	49100	98.1		80-120	1	ICP	3/19/01	14:54
Thallium	190.864	2000	2040	101.7		80-120	1	ICPST	3/20/01	11:39
Vanadium	292.402	500	466	93.3		80-120	1	ICP	3/19/01	14:54
Zinc	213.856	500	464	92.8		80-120	1	ICP	3/19/01	14:54

Comments: Lot #: C1C150304

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

GENERAL CHEMISTRY SUMMARY

678

94

UXB INTERNATIONAL

Client Sample ID: DF/24-B/1073/IDW/003

General Chemistry

Lot-Sample #...: C1C150304-001 Work Order #...: DXGMH Matrix.....: WATER
Date Sampled...: 03/14/01 Date Received...: 03/15/01

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.7		No Units	SW846 9040	03/16/01	1075402
		Dilution Factor 1		MS Run #.....: 1075209		
Cyanide, Total	ND	10.0	ug/L	SW846 9012A	03/16-03/17/01	1075182
		Dilution Factor 1		MS Run #.....: 1075055		
Flashpoint	>201		deg F	SW846 1010	03/21/01	1080356
		Dilution Factor: 1		MS Run #.....: 1080194		
Total Sulfide	ND	1.0	mg/L	MCAWW 376.1	03/16/01	1075436
		Dilution Factor: 1		MS Run #.....: 1075235		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C1C150304

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cyanide, Total	ND	Work Order #: DXG8X1AA 10.0	ug/L	MB Lot-Sample #: C1C160000-182 SW846 9012A	03/16-03/17/01	1075182
		Dilution Factor: 1				
Total Sulfide	ND	Work Order #: DXJVVH1AA 1.0	mg/L	MB Lot-Sample #: C1C160000-436 MCAWW 376.1	03/16/01	1075436
		Dilution Factor: 1				

NOTE(S) :

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

673

96

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C1C150304

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	100	Work Order #: DXJLP1AA (85 - 115) Dilution Factor: 1	SW846 9040	LCS Lot-Sample#: C1C160000-402 03/16/01	1075402
Cyanide, Total	105	Work Order #: DXG8X1AC (85 - 115) Dilution Factor: 1	SW846 9012A	LCS Lot-Sample#: C1C160000-182 03/16-03/17/01	1075182
Flashpoint	100	Work Order #: DXP071AA (85 - 115) Dilution Factor: 1	SW846 1010	LCS Lot-Sample#: C1C210000-356 03/21/01	1080356
Total Sulfide	93	Work Order #: DXJVH1AC (75 - 125) Dilution Factor: 1	MCAWW 376.1	LCS Lot-Sample#: C1C160000-436 03/16/01	1075436

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C1C150304

Matrix.....: WATER

Date Sampled...: 03/13/01

Date Received...: 03/14/01

PARAMETER	PERCENT RECOVERY	RPD	PREPARATION-	PREP
	RECOVERY LIMITS	RPD LIMITS	ANALYSIS DATE	BATCH #
Cyanide, Total		WO#: DW8V01C7-MS/DW8V01C8-MSD	MS Lot-Sample #:	C1C120106-001
106	(75 - 125)	SW846 9012A	03/16-03/17/01	1075182
104	(75 - 125) 1.7 (0-20)	SW846 9012A	03/16-03/17/01	1075182
	Dilution Factor: 1			
	MS Run # : 1075055			
Total Sulfide		WO#: DXDX41EC-MS/DXDX41ED-MSD	MS Lot-Sample #:	C1C140252-001
111	(75 - 125)	MCAWW 376.1	03/16/01	1075436
115	(75 - 125) 3.4 (0-20)	MCAWW 376.1	03/16/01	1075436
	Dilution Factor: 1			
	MS Run #. : 1075235			

NOTE(S) :

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

98

General Chemistry

Matrix.....: WATER

% Moisture.....:

Dilution Factor:

Initial Wgt/Vol:

pH

GC/MS VOLATILE DATA

673 100

**GC/MS VOLATILE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C150304

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	INTRA-LAB QC	94	102	95	93	00
02	DF/24-B/1073/IDW/003	97	104	91	98	00
03	METHOD BLK. DXHFG1AA	94	101	93	92	00
04	LCS DXHFG1AC	95	104	98	100	00
05	LAB MS/MSD D	93	103	97	102	00
06	LAB MS/MSD S	93	104	98	102	00

SURROGATES

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

QC LIMITS

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

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

FORM II

673 102

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C160000

WO #: DXHFG1AC

BATCH: 1075223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50.0	46.2	92	65- 119	
Trichloroethene	50.0	58.4	117	80- 122	
Benzene	50.0	56.2	112	79- 116	
Toluene	50.0	54.9	110	76- 119	
Chlorobenzene	50.0	57.1	114	81- 115	
Acetone	50.0	22.9	46*	60- 134	a
Bromodichloromethane	50.0	58.7	117	70- 130	
Bromoform	50.0	62.5	125	70- 130	
Bromomethane	50.0	57.6	115	70- 130	
2-Butanone	50.0	40.1	80	35- 156	
Carbon disulfide	50.0	47.4	95	80- 116	
Chloroform	50.0	54.9	110	81- 122	
Chloromethane	50.0	58.0	116	70- 130	
Carbon tetrachloride	50.0	62.8	126	72- 133	
Chloroethane	50.0	60.3	121	70- 130	
Dibromochloromethane	50.0	62.2	124	70- 130	
1,1-Dichloroethane	50.0	53.9	108	80- 113	
1,2-Dichloroethane	50.0	54.1	108	73- 127	
1,2-Dichloropropane	50.0	55.1	110	70- 130	
cis-1,3-Dichloropropene	50.0	52.6	105	80- 110	
1,2-Dichloroethene (total)	100	114	114	70- 130	
trans-1,3-Dichloropropene	50.0	57.4	115*	80- 114	a
Ethylbenzene	50.0	58.5	117	70- 130	
2-Hexanone	50.0	45.7	91	60- 130	
Methylene chloride	50.0	63.9	128	70- 130	
4-Methyl-2-pentanone	50.0	50.2	100	62- 129	
Styrene	50.0	55.2	110	70- 130	
1,1,2,2-Tetrachloroethane	50.0	58.8	118	70- 130	
Tetrachloroethene	50.0	58.0	116	78- 131	
1,1,2-Trichloroethane	50.0	54.9	110	70- 130	
1,1,1-Trichloroethane	50.0	57.5	115	70- 130	

(Continued on next page)

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C160000

WO #: DXHFG1AC

BATCH: 1075223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Xylenes (total)	150	175	117	37- 162	
Vinyl chloride	50.0	57.1	114	53- 134	

NOTES (S) :

a. Spiked analyte recovery is outside stated control limits

* Values outside of QC limits

Spike Recovery: 2 out of 33 outside limits

COMMENTS:

FORM III

673 104

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C140261

WO #: DXD2J1AD

BATCH: 1075223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
1,1-Dichloroethene	50.0	ND	40.5	81	57 - 138	
Trichloroethene	50.0	ND	52.1	104	58 - 141	
Benzene	50.0	ND	51.0	100	73 - 123	
Toluene	50.0	ND	50.5	101	67 - 129	
Chlorobenzene	50.0	ND	52.5	105	70 - 122	
Acetone	50.0	ND	22.6	45*	60 - 134	a
Bromodichloromethane	50.0	ND	51.0	102	70 - 130	
Bromoform	50.0	ND	56.3	113	70 - 130	
Bromomethane	50.0	ND	48.6	97	70 - 130	
2-Butanone	50.0	ND	36.4	73	10 - 151	
Carbon disulfide	50.0	ND	41.9	84	80 - 116	
Carbon tetrachloride	50.0	ND	54.5	109	61 - 143	
Chloroethane	50.0	ND	54.0	108	70 - 130	
Chloroform	50.0	ND	48.4	97	65 - 131	
Chloromethane	50.0	ND	49.4	99	70 - 130	
Dibromochloromethane	50.0	ND	53.7	107	70 - 130	
1,1-Dichloroethane	50.0	ND	47.8	96	80 - 113	
1,2-Dichloroethane	50.0	ND	48.4	97	67 - 132	
1,2-Dichloroethene (total)	100	ND	100	100	70 - 130	
1,2-Dichloropropane	50.0	ND	48.5	97	70 - 130	
cis-1,3-Dichloropropene	50.0	ND	46.9	94	80 - 110	
trans-1,3-Dichloropropene	50.0	ND	50.6	101	80 - 114	
Ethylbenzene	50.0	3.4	56.2	106	70 - 130	
2-Hexanone	50.0	ND	44.0	88	60 - 130	
Methylene chloride	50.0	ND	40.7	81	70 - 130	
4-Methyl-2-pentanone	50.0	ND	47.4	95	62 - 129	
Styrene	50.0	ND	50.8	102	70 - 130	
1,1,2,2-Tetrachloroethane	50.0	ND	55.2	110	70 - 130	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C140261

WO #: DXD2J1AD

BATCH: 1075223

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	MS CONCENT. (ug/L)	MS % REC	LIMITS REC	QUAL
Tetrachloroethene	50.0	ND	52.1	104	70 - 130	
1,1,2-Trichloroethane	50.0	ND	49.5	99	70 - 130	
1,1,1-Trichloroethane	50.0	ND	50.9	102	70 - 130	
Xylenes (total)	150	ND	163	107	37 - 162	
Vinyl chloride	50.0	ND	50.6	101	51 - 133	

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 33 outside limits

COMMENTS:

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Lot #: C1C140261

WO #: DXD2J1AE

BATCH: 1075223

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENT. (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
1,1-Dichloroethene	50.0	43.1	86	6.2	20	57 - 138	
Trichloroethene	50.0	53.5	107	2.7	20	58 - 141	
Benzene	50.0	52.5	103	2.9	20	73 - 123	
Toluene	50.0	51.3	103	1.5	20	67 - 129	
Chlorobenzene	50.0	53.1	106	1.2	20	70 - 122	
Acetone	50.0	22.5	45*	0.62	32	60 - 134	a
Bromodichloromethane	50.0	53.3	107	4.3	20	70 - 130	
Bromoform	50.0	57.9	116	2.8	20	70 - 130	
Bromomethane	50.0	58.0	116	18	23	70 - 130	
2-Butanone	50.0	37.9	76	4.0	34	10 - 151	
Carbon disulfide	50.0	43.6	87	4.1	20	80 - 116	
Carbon tetrachloride	50.0	57.5	115	5.2	20	61 - 143	
Chloroethane	50.0	55.0	110	1.9	24	70 - 130	
Chloroform	50.0	49.9	100	3.1	20	65 - 131	
Chloromethane	50.0	52.2	104	5.6	25	70 - 130	
Dibromochloromethane	50.0	55.8	112	3.7	20	70 - 130	
1,1-Dichloroethane	50.0	49.2	98	2.9	22	80 - 113	
1,2-Dichloroethane	50.0	50.1	100	3.3	20	67 - 132	
1,2-Dichloroethene (total)	100	103	103	3.2	25	70 - 130	
1,2-Dichloropropane	50.0	50.5	101	4.1	20	70 - 130	
cis-1,3-Dichloropropene	50.0	48.5	97	3.4	20	80 - 110	
trans-1,3-Dichloropropene	50.0	52.3	105	3.4	32	80 - 114	
Ethylbenzene	50.0	57.0	107	1.2	25	70 - 130	
2-Hexanone	50.0	45.4	91	3.1	24	60 - 130	
Methylene chloride	50.0	49.0	98	18	20	70 - 130	
4-Methyl-2-pentanone	50.0	49.4	99	4.1	34	62 - 129	
Styrene	50.0	51.6	103	1.5	22	70 - 130	
1,1,2,2-Tetrachloroethane	50.0	56.0	112	1.5	20	70 - 130	

(Continued on next page)

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No.

Matrix Spike ID: LAB MS/MSD

Lot #: C1C140261

WO #: DXD2J1AE

BATCH: 1075223

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Tetrachloroethene	50.0	53.7	107	3.0	20	70 - 130	
1,1,2-Trichloroethane	50.0	50.5	101	2.1	23	70 - 130	
1,1,1-Trichloroethane	50.0	52.8	106	3.6	24	70 - 130	
Xylenes (total)	150	165	108	1.4	20	37 - 162	
Vinyl chloride	50.0	53.2	106	5.0	20	51 - 133	

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 33 outside limitsSpike Recovery: 1 out of 33 outside limits

COMMENTS:

673 103

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXHFG1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: 4031601.D

Lot Number: C1C150304

Date Analyzed: 03/16/01

Time Analyzed: 08:11

Matrix: WATER

Date Extracted: 03/16/01

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	INTRA-LAB QC	DXD2J1AA	4031602.D	03/16/01	08:36
02	LAB MS/MSD	DXD2J1AD S	4031604.D	03/16/01	09:24
03	LAB MS/MSD	DXD2J1AE D	4031605.D	03/16/01	09:46
04	DF/24-B/1073/IDW/003	DXGMH1AA	4031612.D	03/16/01	13:01
05	CHECK SAMPLE	DXHFG1AC C	4031603.D	03/16/01	09:01
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

ANALYTICAL INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

678 109

Lab Name: STL-PITTSBURGH Contract: _____

Lab Code: _____ Case No : _____ SAS No.: _____ SDG No.: METHODS

Lab File ID: BF40123 BFB Injection Date: 01/23/01

Instrument ID: HP4 BFB Injection Time: 1014

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	18.2
75	30.0 - 60.0% of mass 95	40.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	68.2
175	5.0 - 9.0% of mass 174	5.0 (7.3)1
176	95.0 - 101.0% of mass 174	67.1 (98.4)1
177	5.0 - 9.0% of mass 176	4.6 (6.9)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	VSTD20	VSTD20	1B40123	01/23/01	1346
02	VSTD50	VSTD50	1C40123	01/23/01	1409
03	VSTD100	VSTD100	1D40123	01/23/01	1440
04	VSTD200	VSTD200	1E40123	01/23/01	1505
05	VSTD5	VSTD5	2A40123	01/23/01	1715
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

678 110 5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL-PITTSBURGH Contract:
Lab Code: Case No.: SAS No.: SDG No.: C1C150304
Lab File ID: BF40316 BFB Injection Date: 03/16/01
Instrument ID: HP4 BFB Injection Time: 0644
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	16.9
75	30.0 - 60.0% of mass 95	38.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	62.5
175	5.0 - 9.0% of mass 174	4.7 (7.5)1
176	95.0 - 101.0% of mass 174	61.4 (98.3)1
177	5.0 - 9.0% of mass 176	4.7 (7.7)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	CC40316	03/16/01	0713
02	INTRA-LAB BL	DXHFG1AA	4031601	03/16/01	0811
03	INTRA-LAB CH	DXHFG1AC	4031603	03/16/01	0901
04	DF/24-B/1073	DXGMH1AA	4031612	03/16/01	1301
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

673 111

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab File ID (Standard): CC40316

Date Analyzed: 03/16/01

Instrument ID: HP4

Time Analyzed: 0713

GC Column: DB 624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ) AREA #	RT #	IS2 (DCB) AREA #	RT #	IS3 AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	128535	10.13	187438	12.46	611531	7.01
UPPER LIMIT	257070	10.33	374876	12.66	1223062	7.21
LOWER LIMIT	64268	9.93	93719	12.26	305766	6.81
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	123483	10.13	182206	12.46	614238	7.01
02 INTRA-LAB CH	125529	10.12	188078	12.46	588755	7.00
03 DF/24-B/1073	116527	10.13	172696	12.46	557885	7.01
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
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.

678 112

**GC/MS VOLATILE
SAMPLE DATA**

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

Matrix: (soil/water) WATER Lab Sample ID: C1C150304 001

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/15/01

Work Order: DXGMH1AA Date Extracted: 03/16/01

Dilution factor: 25 Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075223

Client Sample Id: DF/24-B/1073/IDW/003

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	500	U
71-43-2	Benzene	120	U
75-27-4	Bromodichloromethane	120	U
75-25-2	Bromoform	120	U
74-83-9	Bromomethane	250	U
78-93-3	2-Butanone	500	U
75-15-0	Carbon disulfide	120	U
56-23-5	Carbon tetrachloride	120	U
108-90-7	Chlorobenzene	120	U
124-48-1	Dibromochloromethane	120	U
75-00-3	Chloroethane	250	U
67-66-3	Chloroform	3900	
74-87-3	Chloromethane	250	U
75-34-3	1,1-Dichloroethane	120	U
107-06-2	1,2-Dichloroethane	120	U
75-35-4	1,1-Dichloroethene	120	U
540-59-0	1,2-Dichloroethene (total)	120	U
78-87-5	1,2-Dichloropropane	120	U
10061-01-5	cis-1,3-Dichloropropene	120	U
10061-02-6	trans-1,3-Dichloropropene	120	U
100-41-4	Ethylbenzene	120	U
591-78-6	2-Hexanone	500	U
75-09-2	Methylene chloride	120	U
108-10-1	4-Methyl-2-pentanone	120	J
100-42-5	Styrene	120	U
79-34-5	1,1,2,2-Tetrachloroethane	120	U
127-18-4	Tetrachloroethene	120	U
108-88-3	Toluene	120	U

673 114

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/15/01

Work Order: DXGMH1AA

Date Extracted: 03/16/01

Dilution factor: 25

Date Analyzed: 03/16/01

Moisture % NA

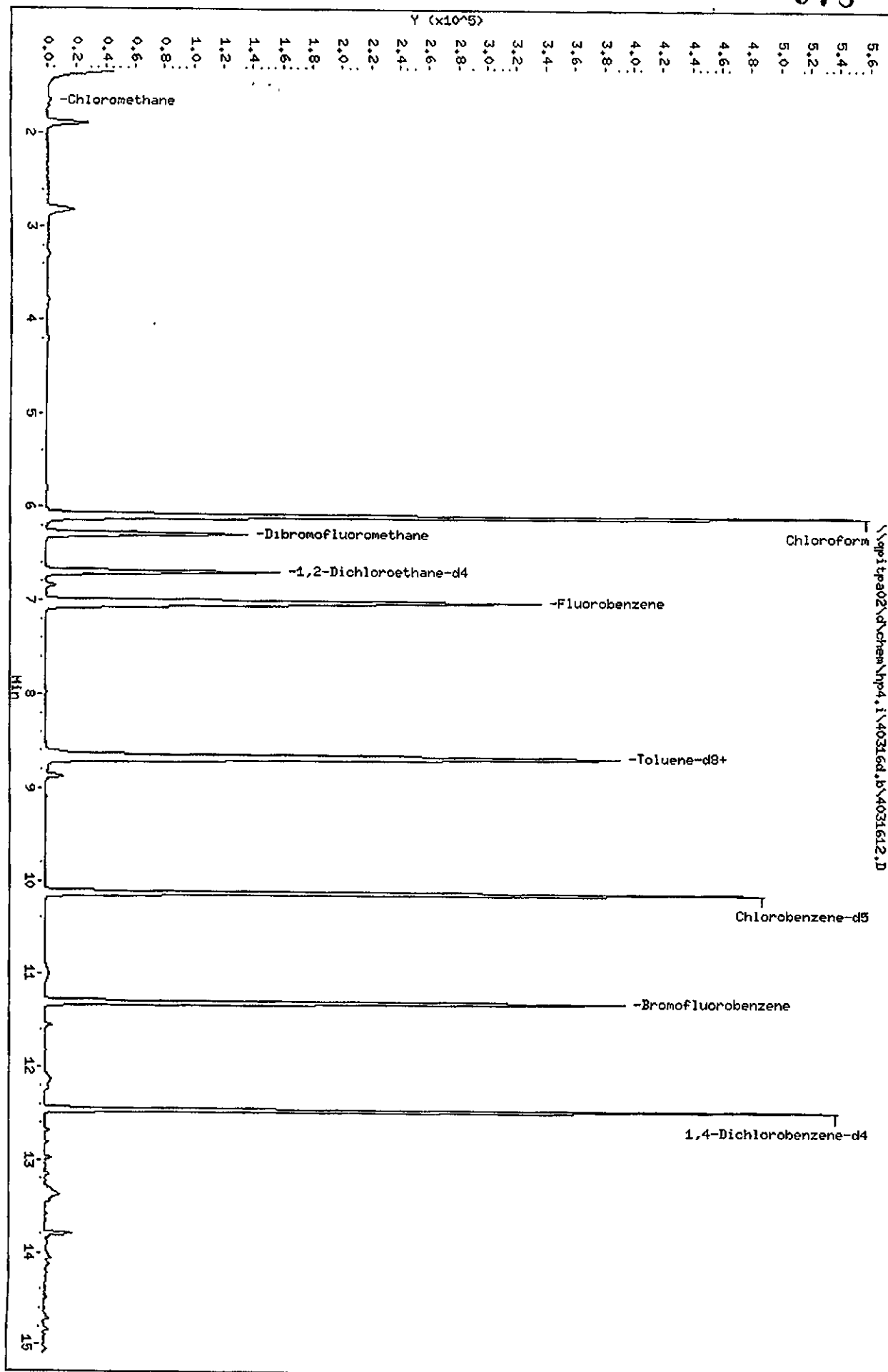
QC Batch: 1075223

Client Sample Id: DF/24-B/1073/IDW/003

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	120	U
79-00-5	1,1,2-Trichloroethane	120	U
79-01-6	Trichloroethene	120	U
75-01-4	Vinyl chloride	250	U
1330-20-7	Xylenes (total)	120	U

Data File: \\qpi1tpa02\chem\hp4.i\40316d.b\4031612.D
Date: 16-Mar-2001 13:04
Client ID: DF/24-B/1073/IDM/00
Sample Info: cd150304-001 (1ml/25ml)/5ml
Volume Injected (ul): 5.0
Column phase: JB 624

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



Data File: \\qpitpa02\d\chem\hp4.i\40316d.b\4031612.D
Report Date: 16-Mar-2001 13:20

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40316d.b\4031612.D
Lab Smp Id: DXGMH1AA Client Smp ID: DF/24-B/1073/IDW/00
Inj Date : 16-MAR-2001 13:01 Inst ID: hp4.i
Operator : 16328
Smp Info : clc150304-001 (1ml/25ml)/5ml
Misc Info : dxgmh1aa,40316d.b,8260bh2o.M,
Comment :
Method : \\qpitpa02\d\chem\hp4.i\40316d.b\8260bh2o.m
Meth Date : 16-Mar-2001 09:04 dudeckk Quant Type: ISTD
Cal Date : 01-MAR-2001 11:27 Cal File: 2B40301.D
Als bottle: 16
Dil Factor: 25.00000
Integrator: HP RTE
Target Version: 4.04
Processing Host: PITPC077

K₂/16/01

Compound Sublist: 6-br.sub

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

Name	Value	Description
DF	25.000	Dilution Factor
Vf	5.000	Final Volume
Vo	5.000	Sample Volume
Vi	5.000	Purge Volume

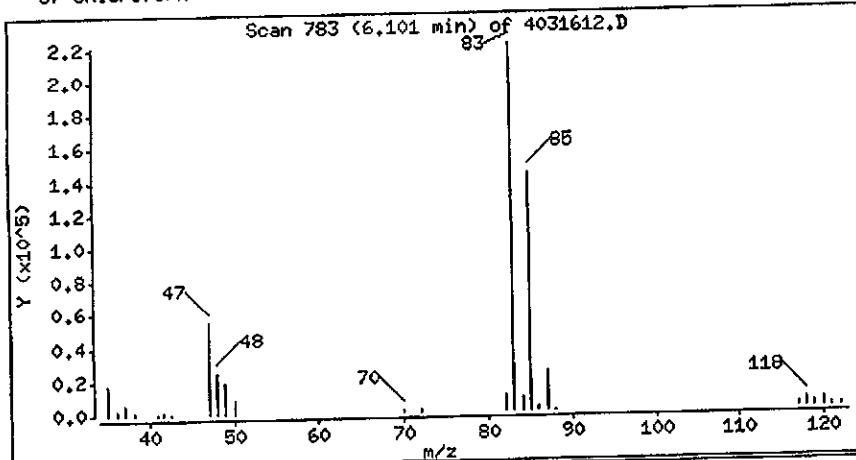
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7 013	7 006	(1 000)	557885	250 000	
* 69 Chlorobenzene-d5	119	10 128	10 127	(1 000)	116327	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.458	12 457	(1.000)	172696	250 000	
\$ 39 Dibromofluoromethane	113	6 295	6 288	(0.898)	109554	260 926	52.18
\$ 43 1,2-Dichloroethane-d4	65	6.691	6 690	(0 954)	119621	242 835	48 57
\$ 59 Toluene-d8	98	8 674	8 655	(0.856)	495971	226 293	45 26
\$ 80 Bromofluorobenzene	95	11 308	11 307	(1 117)	186354	246 222	49.24
2 Chloromethane	50	1.666	1 647	(0 238)	4181	5.73679	28 68
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
13 Acetone	43	Compound Not Detected.					
15 Carbon Disulfide	76	Compound Not Detected.					
18 Methylene Chloride	84	Compound Not Detected.					

2mm PaS₃/17/01

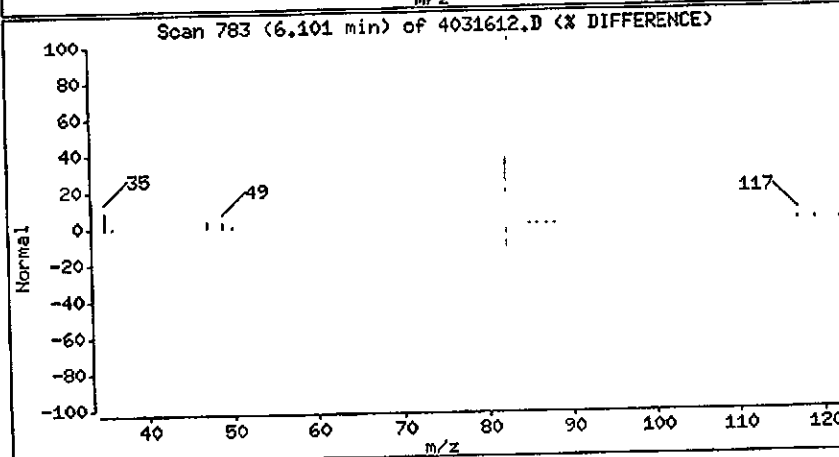
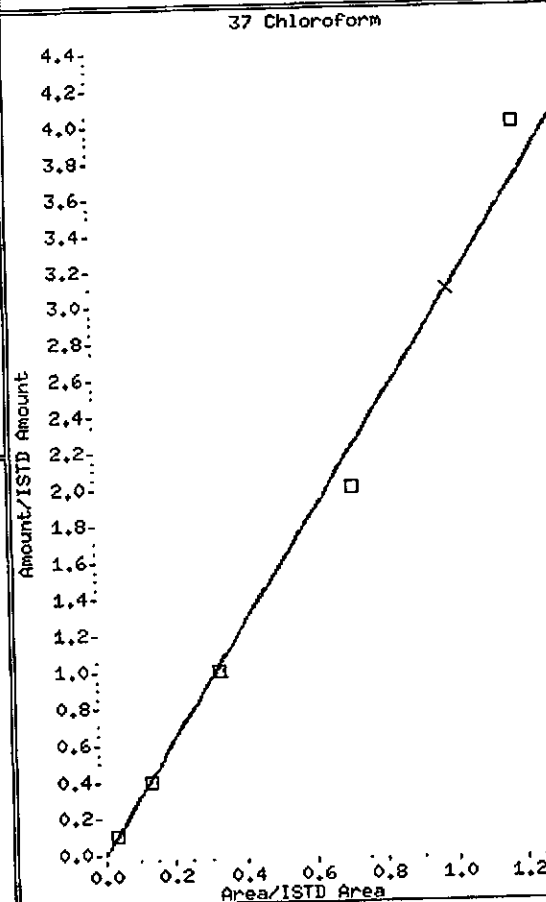
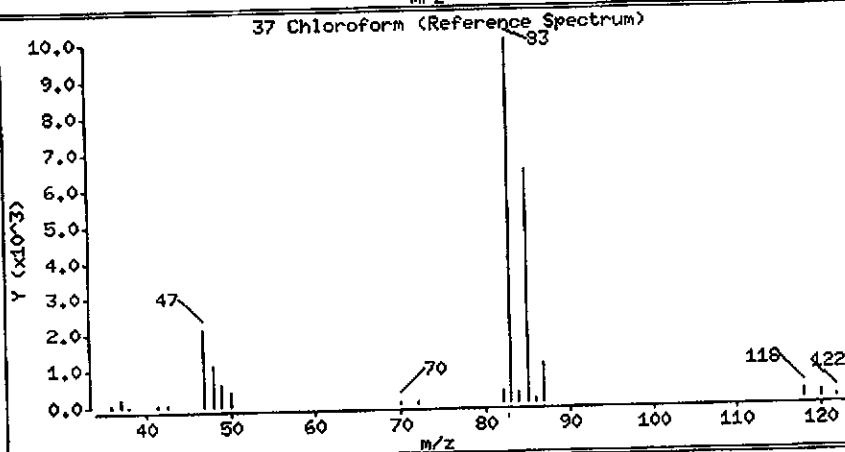
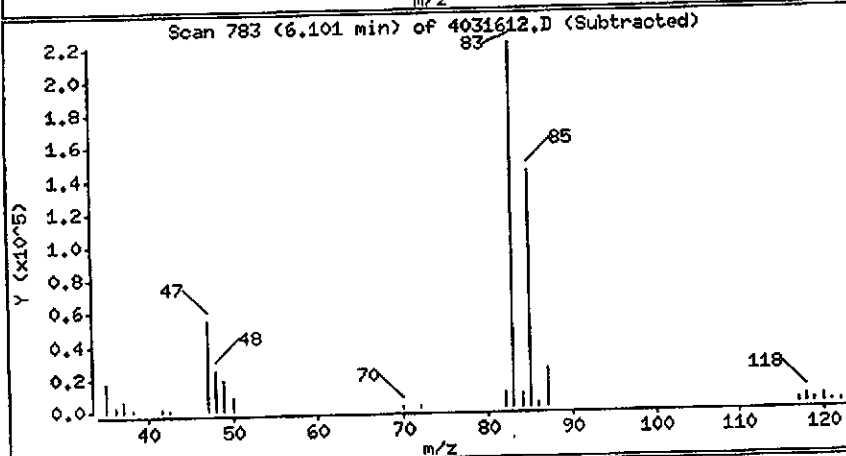
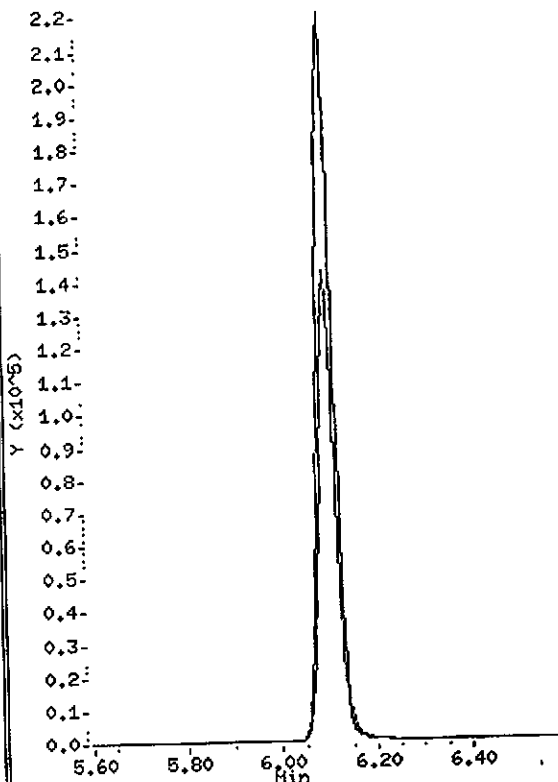
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(UG/L)
*****	****	ss	*****	*****	*****	*****	*****
19 trans-1,2-Dichloroethene	96			Compound Not Detected			
20 Methyl tert-butyl ether	73			Compound Not Detected			
24 1,1-Dichloroethane	63			Compound Not Detected			
28 cis-1,2-dichloroethene	96			Compound Not Detected			
M 29 1,2-Dichloroethene (total)	96			Compound Not Detected			
31 2-Butanone	43			Compound Not Detected.			
37 Chloroform	83	6 101	6 094	(0.870)	556949	771 506	3858
38 1,1,1-Trichloroethane	97			Compound Not Detected			
41 Carbon Tetrachloride	117			Compound Not Detected			
42 Benzene	78			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.			
53 Bromodichloromethane	83			Compound Not Detected.			
57 cis-1,3-Dichloropropene	75			Compound Not Detected			
58 4-Methyl-2-Pentanone	43	8 607	8.612	(0.850)	12319	24 4645	122.3
60 Toluene	91			Compound Not Detected			
61 trans-1,3-Dichloropropene	75			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			
70 Chlorobenzene	112			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			
83 1,1,2,2-Tetrachloroethane	83			Compound Not Detected			
91 1,3-Dichlorobenzene	146			Compound Not Detected.			
93 1,4-Dichlorobenzene	146			Compound Not Detected			
95 1,2-Dichlorobenzene	146			Compound Not Detected.			

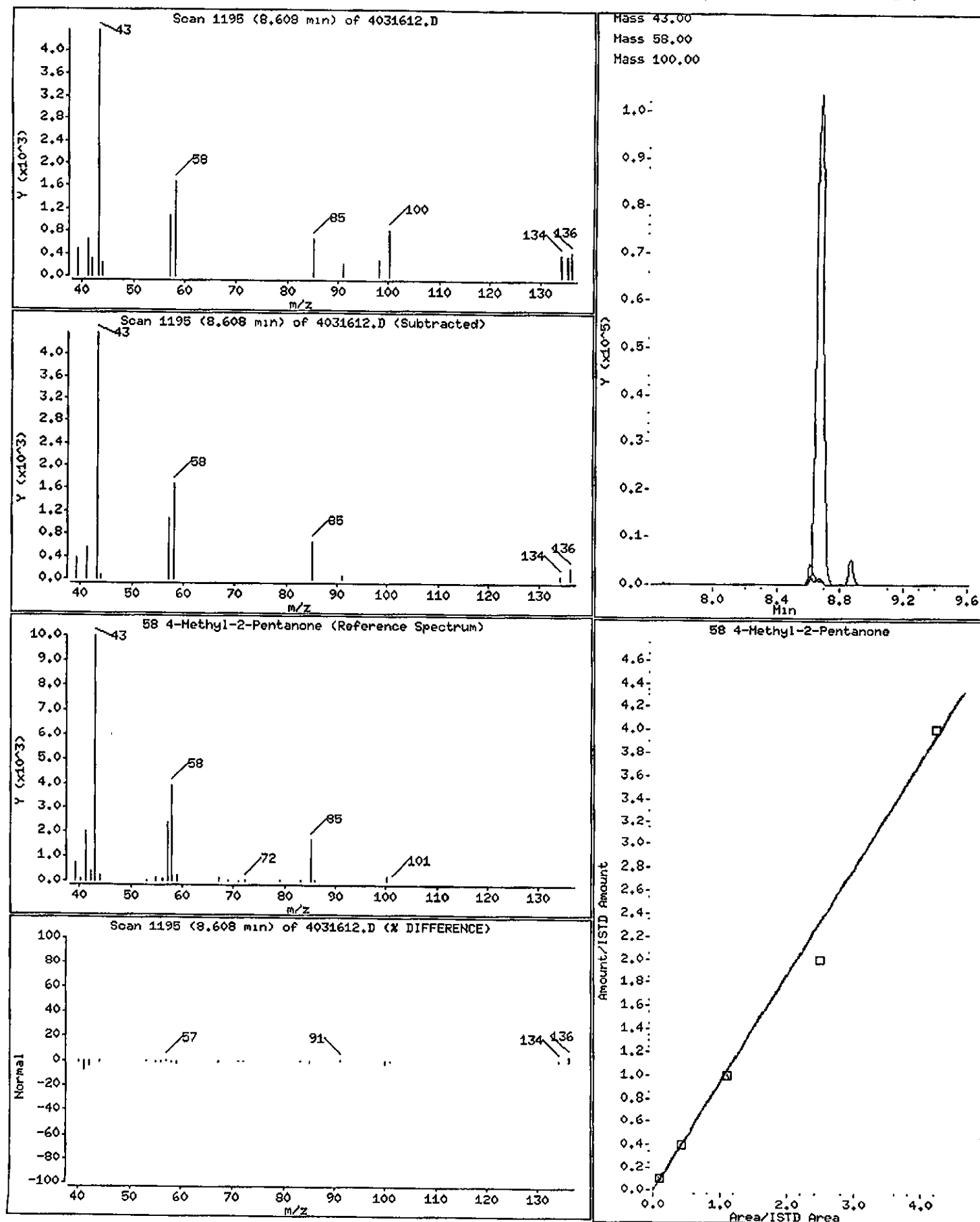
673 113

37 Chloroform



Mass 83.00
Mass 85.00





673 120

**GC/MS VOLATILE
CALIBRATION DATA**

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL-PITTSBURGH

Contract:

678 121

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP4

Calibration Date(s): 01/23/01 01/23/01

Heated Purge: (Y/N) N

Calibration Time(s): 1346 1715

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID: RRF5 =2A40123 RRF20 =1B40123 RRF50 =1C40123 RRF100=1D40123 RRF200=1E40123							
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.233	0.253	0.267	0.295	0.242	0.258	9.4
Chloromethane	* 0.311	0.314	0.333	0.369	0.305	0.326	8.0*
Vinyl Chloride	0.296	0.298	0.312	0.346	0.288	0.308	7.4
Bromomethane	0.032	0.026	0.032	0.048	0.040	0.036	24.1
Chloroethane	0.050	0.052	0.051	0.056	0.048	0.051	6.2
Trichlorofluoromethane	0.208	0.064	0.066	0.263	0.151	0.150	58.3
1,1-Dichloroethene	0.172	0.169	0.178	0.205	0.167	0.178	8.8
Methylene Chloride	0.194	0.213	0.202	0.217	0.217	0.209	4.8
trans-1,2-Dichloroethene	0.219	0.236	0.246	0.266	0.221	0.238	8.1
1,1-Dichloroethane	* 0.366	0.398	0.405	0.432	0.361	0.392	7.5*
cis-1,2-dichloroethene	0.214	0.247	0.253	0.269	0.225	0.242	9.2
Chloroform	0.304	0.324	0.333	0.357	0.299	0.323	7.2
Bromochloromethane	0.092	0.102	0.105	0.110	0.093	0.100	7.8
1,1,1-Trichloroethane	0.225	0.252	0.268	0.291	0.251	0.257	9.5
Carbon Tetrachloride	0.150	0.178	0.192	0.216	0.191	0.185	13.0
1,2-Dichloroethane	0.229	0.238	0.238	0.258	0.217	0.236	6.4
Benzene	0.908	0.963	0.971	1.002	0.859	0.941	6.0
Trichloroethene	0.199	0.214	0.219	0.229	0.196	0.211	6.5
1,2-Dichloropropane	0.227	0.242	0.244	0.254	0.220	0.237	5.8
Bromodichloromethane	0.179	0.210	0.228	0.255	0.224	0.219	12.6
cis-1,3-Dichloropropene	0.263	0.311	0.334	0.360	0.316	0.317	11.3
Toluene	4.777	4.928	4.938	5.346	4.482	4.894	6.4
trans-1,3-Dichloropropene	1.080	1.230	1.315	1.528	1.310	1.293	12.5
1,1,2-Trichloroethane	0.902	0.926	0.942	1.047	0.880	0.939	6.9
Tetrachloroethene	0.753	0.784	0.776	0.859	0.730	0.780	6.3
Dibromochloromethane	0.537	0.649	0.725	0.872	0.772	0.711	17.8
Chlorobenzene	* 2.826	2.912	2.922	3.065	2.608	2.867	5.9*
Ethylbenzene	1.542	1.659	1.660	1.755	1.493	1.622	6.4
Styrene	2.767	3.294	3.374	3.535	3.016	3.197	9.5
Bromoform	* 0.226	0.330	0.391	0.456	0.410	0.363	24.5*
1,1,2,2-Tetrachloroethane	* 0.636	0.702	0.719	0.740	0.629	0.685	7.3*
1,3-Dichlorobenzene	1.378	1.428	1.430	1.453	1.174	1.373	8.3
1,4-Dichlorobenzene	1.413	1.442	1.448	1.533	1.295	1.426	6.0
1,2-Dichlorobenzene	1.192	1.269	1.279	1.333	1.136	1.242	6.2
Dibromomethane	0.100	0.116	0.118	0.126	0.108	0.114	9.0
1,2-Dibromoethane	0.766	0.841	0.855	0.959	0.820	0.848	8.3
1,1,1,2-Tetrachloroethane	0.697	0.769	0.790	0.877	0.770	0.781	8.3

* 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:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP4

Calibration Date(s): 01/23/01 01/23/01

Heated Purge: (Y/N) N

Calibration Time(s): 1346 1715

GC Column: DB 624 ID: 0.18 (mm)

LAB FILE ID:		RRF5 =2A40123		RRF20 =1B40123			
RRF50 =1C40123		RRF100=1D40123		RRF200=1E40123			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
1,2,3-Trichloropropane	0.189	0.217	0.219	0.222	0.189	0.207	8.1
1,2-Dibromo-3-chloropropane	0.017	0.055	0.070	0.064	0.063	0.054	39.5
2,2-Dichloropropane	0.205	0.240	0.259	0.289	0.246	0.248	12.4
1,1-Dichloropropene	0.185	0.207	0.211	0.225	0.198	0.205	7.3
1,3-Dichloropropane	1.601	1.611	1.612	1.816	1.534	1.635	6.5
n-Propylbenzene	0.854	0.909	0.937	0.995	0.840	0.907	7.0
Bromobenzene	0.651	0.702	0.702	0.733	0.625	0.683	6.4
1,3,5-Trimethylbenzene	2.301	2.554	2.619	2.778	2.380	2.526	7.5
2-Chlorotoluene	0.719	0.738	0.748	0.786	0.674	0.733	5.6
4-Chlorotoluene	0.713	0.762	0.775	0.815	0.690	0.751	6.6
tert-Butylbenzene	2.085	2.204	2.245	2.374	2.020	2.186	6.3
1,2,4-Trimethylbenzene	2.172	2.519	2.559	2.714	2.331	2.459	8.6
sec-Butylbenzene	3.193	3.481	3.495	3.724	3.143	3.407	7.0
4-Isopropyltoluene	2.430	2.754	2.750	2.927	2.411	2.654	8.5
n-Butylbenzene	2.254	2.548	2.582	2.830	2.452	2.533	8.3
1,2,4-Trichlorobenzene	0.337	0.409	0.424	0.434	0.403	0.401	9.5
Hexachlorobutadiene	0.313	0.296	0.289	0.314	0.275	0.297	5.6
Naphthalene	0.379	0.714	0.838	0.756	0.779	0.693	26.1
1,2,3-Trichlorobenzene	0.268	0.266	0.268	0.262	0.262	0.265	1.1
Acetone	0.150	0.141	0.110	0.113	0.094	0.122	19.0
Carbon Disulfide	0.524	0.540	0.583	0.667	0.550	0.573	9.9
2-Butanone	0.116	0.150	0.149	0.158	0.133	0.141	12.0
4-Methyl-2-Pentanone	0.885	1.076	1.122	1.255	1.064	1.080	12.3
2-Hexanone	0.513	0.839	0.851	0.953	0.837	0.799	20.9
Methyl tert-butyl ether	0.526	0.576	0.596	0.646	0.534	0.576	8.5
Isopropylbenzene	4.321	4.885	4.930	5.158	4.390	4.737	7.7
1,2-Dichloroethene (total)	0.216	0.242	0.249	0.268	0.223	0.240	8.6
Xylenes (total)	1.762	1.947	1.958	2.051	1.745	1.893	7.0
Dibromofluoromethane	0.204	0.204	0.189	0.184	0.159	0.188	9.9
1,2-Dichloroethane-d4	0.246	0.243	0.218	0.214	0.183	0.221	11.5
Toluene-d8	5.348	5.134	4.657	4.536	3.835	4.702	12.5
Bromofluorobenzene	1.798	1.797	1.657	1.532	1.335	1.624	12.1

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

INITIAL CALIBRATION REPORT

Instrument ID: hp4.i
 Lab File ID: 2A40123.D
 Analysis Type: WATER

Injection Date: 23-JAN-2001 17:15
 Lab Sample ID: vstd5
 Method File: \\qpitpa02\d\chem\hp4.i\40123d.b

COMPOUND	IRSD
Xylenes (total)	7.0
1,2-Dichloroethene (total)	8.6
Dichlorodifluoromethane	9.4
Chloromethane	8.0
Vinyl Chloride	7.4
Bromomethane	24.1
Chloroethane	6.2
Trichlorofluoromethane	58.3
1,1-Dichloroethene	8.6
Carbon Disulfide	9.9
Acetone	19.0
Methylene Chloride	4.8
trans-1,2-Dichloroethene	8.1
Methyl tert-butyl ether	8.5
1,1-Dichloroethane	7.5
2,2-Dichloropropane	12.4
cis-1,2-dichloroethene	9.2
2-Butanone	12.0
Bromochloromethane	7.8
Chloroform	7.2
1,1,1-Trichloroethane	9.5
Dibromofluoromethane	9.9
Carbon Tetrachloride	13.0
1,1-Dichloropropene	7.3
Benzene	6.0
1,2-Dichloroethane d4	12.5
1,2-Dichloroethane	6.4
Trichloroethene	6.5
1,2-Dichloropropane	5.8
Dibromomethane	9.0
Bromodichloromethane	12.6
cis-1,3-Dichloropropene	11.3
4-Methyl-2-Pentanone	12.3
Toluene-d8	12.5
Toluene	6.4
trans-1,3-Dichloropropene	12.5
1,1,2-Trichloroethane	6.9
Tetrachloroethene	6.3
1,3-Dichloropropane	6.5

673 124

INITIAL CALIBRATION REPORT

Instrument ID: hp4.i
Lab File ID: 2A40123.D
Analysis Type: WATER

Injection Date: 23-JAN-2001 17:15
Lab Sample ID: vstd5
Method File: \\qpitpa02\d\chem\hp4.i\40123d.b

COMPOUND	%RSD
2-Hexanone	20.9
Dibromochloromethane	17.8
1,2-Dibromoethane	8.3
Chlorobenzene	5.9
Ethylbenzene	6.4
1,1,1,2-Tetrachloroethane	8.3
m + p Xylene	7.4
Xylene-o	7.0
Styrene	9.5
Bromoform	24.5
Isopropylbenzene	7.7
Bromofluorobenzene	12.1
Bromobenzene	6.4
1,1,2,2-Tetrachloroethane	7.3
n-Propylbenzene	7.0
1,2,3-Trichloropropane	8.1
2-Chlorotoluene	5.6
1,3,5-Trimethylbenzene	7.5
4-Chlorotoluene	6.6
tert-Butylbenzene	6.3
1,2,4-Trimethylbenzene	8.6
sec-Butylbenzene	7.0
1,3-Dichlorobenzene	8.3
4-Isopropyltoluene	8.5
1,4-Dichlorobenzene	6.0
n-Butylbenzene	8.3
1,2-Dichlorobenzene	6.2
1,2-Dibromo-3-chloropropane	39.5
1,2,4-Trichlorobenzene	9.5
Hexachlorobutadiene	5.6
Napthalene	26.1
1,2,3-Trichlorobenzene	1.1

The average of all %RSD's in the initial calibration is 10.4

Data File: \\pitt02\chem\hpd4.1\40123d.b\2040123.D

Date: 23-JAN-2001 17:15

Client ID: vsids

Sample Info: vsids 5m1

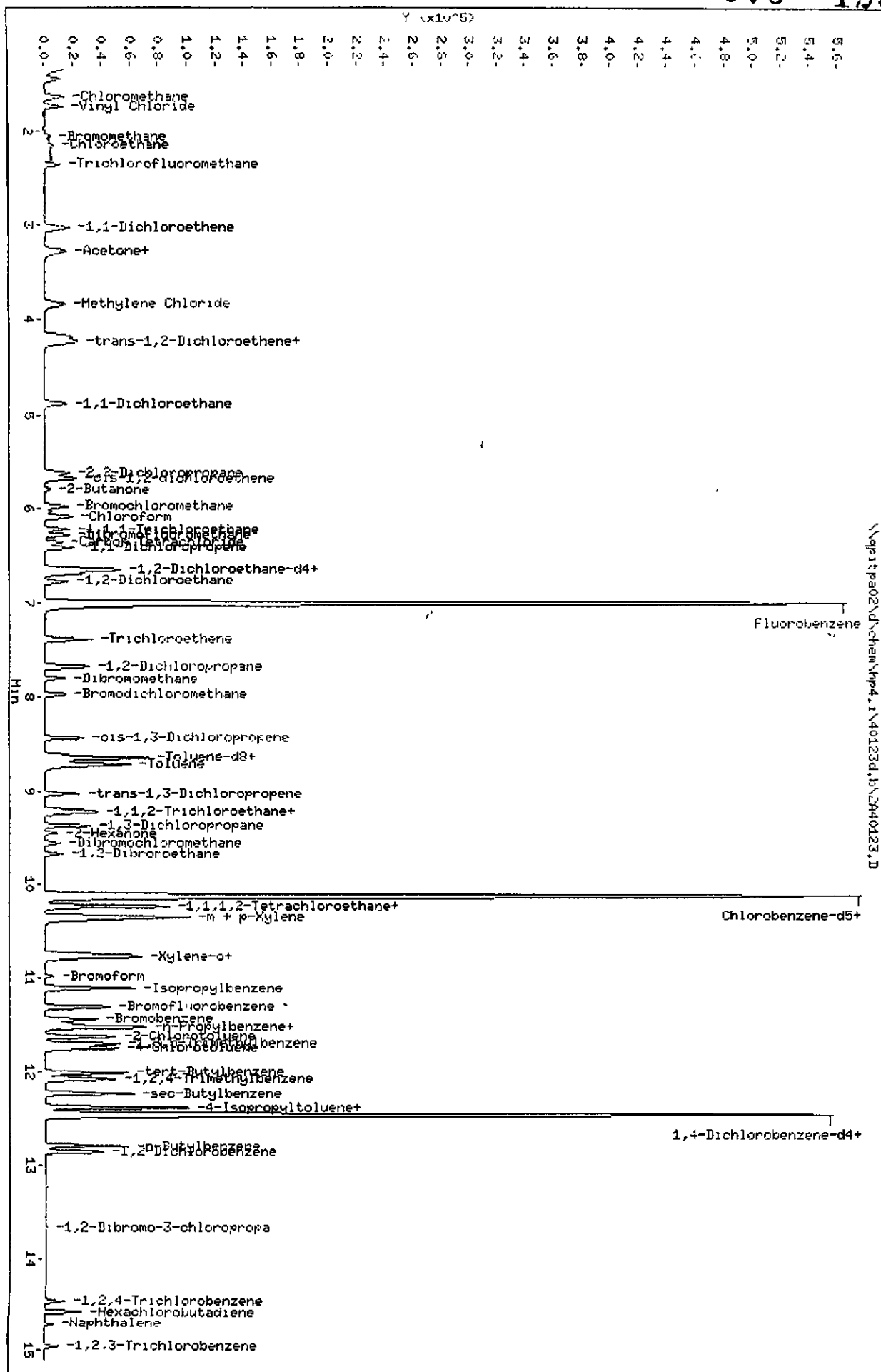
Purge Volume: 5.0

Column Phase: DB 624

Instrument: hpd4.1

Operator: 16238

Column diameter: 0.18



STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.1\40123d.b\2A40123.D
 Lab Smp Id: vstd5 Client Smp ID: vstd5
 Inj Date : 23-JAN-2001 17:15
 Operator : 16238 Inst ID: hp4.1
 Smp Info : vstd5 5ml
 Misc Info : vstd5,40123d.b, K₂/12/01
 Comment :
 Method : \\qpitpa02\d\chem\hp4.1\40123d.b\med500.m
 Meth Date : 12-Feb-2001 07:40 dudeckk Quant Type: ISTD
 Cal Date : 23-JAN-2001 17:15 Cal File: 2A40123.D
 Als bottle: 9 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-padep.sub
 Target Version: 4.04
 Processing Host: PITPC077

Concentration Formula: Amt * DF

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)	657279	250 000	
* 69 Chlorobenzene d5	119	10 121	10 121	(1 000)	129557	250 000	
* 92 1,4-Dichlorobenzene-d4	152	12 457	12 457	(1 000)	177373	250 000	
\$ 39 Dibromofluoromethane	113	6 289	6 289	(0 898)	13410	25 0000	27 11
\$ 43 1,2-Dichloroethane d4	65	6 684	6 684	(0 955)	16139	25 0000	27 01
\$ 59 Toluene-d8	98	8 643	8 643	(0 854)	69293	25 0000	28 44
\$ 80 Bromofluorobenzene	95	11 307	11 307	(1.117)	23296	25 0000	27 68
1 Dichlorodifluoromethane	85	1 446	1 446	(0 207)	15344	25 0000	22 62
2 Chloroethane	50	1 635	1 635	(0 234)	20445	25 0000	23 01
3 Vinyl Chloride	62	1 738	1 738	(0 248)	19436	25 0000	24 00
4 Bromomethane	94	2 054	2 054	(0 294)	2099	25 0000	22 50
5 Chloroethane	64	2 152	2 152	(0 307)	3255	25 0000	24 08
6 Trichlorofluoromethane	101	2 359	2 359	(0 337)	13705	25 0000	34 56
12 1,1-Dichloroethene	96	3 028	3 028	(0 433)	11289	25 0000	21 09
13 Acetone	43	3 302	3 302	(0 472)	9841	25 0000	30 79
15 Carbon Disulfide	76	3 271	3 271	(0 467)	34450	25 0000	22 87
18 Methylene Chloride	84	3 831	3 831	(0 547)	12767	25 0000	23 26
19 trans 1,2 Dichloroethene	96	4 178	4 178	(0 597)	14416	25 0000	23 06
20 Methyl tert butyl ether	73	4 232	4 232	(0 605)	34599	25 0000	22 86
24 1,1 Dichloroethane	63	4 883	4 883	(0 698)	24030	25 0000	23 29
27 2,2-Dichloropropene	77	5 625	5 625	(0 804)	13454	25 0000	20 66
28 cis-1,2-dichloroethene	96	5 680	5 680	(0 811)	14048	25 0000	22 12

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REF. RT		CAL-AMT (ng)	ON-CCL (ng)
-----	----	==	=====	=====	-----	=====	-----
M 29 1,2-Dichloroethene (total)	96				28464	50.0000	45.17
30 Bromochloromethane	128	5.984	5.984 (0.855)		6082	25.0000	22.99
31 2-Butanone	43	5.790	5.790 (0.827)		7637	25.0000	20.48
37 Chloroform	83	6.088	6.088 (0.870)		20003	25.0000	23.72
38 1,1,1-Trichloroethane	97	6.222	6.222 (0.889)		14782	25.0000	21.84
40 1,1-Dichloropropene	75	6.416	6.416 (0.917)		12171	25.0000	22.54
41 Carbon Tetrachloride	117	6.362	6.362 (0.909)		9865	25.0000	20.23
42 Benzene	78	6.641	6.641 (0.949)		59687	25.0000	24.14
45 1,2-Dichloroethane	62	6.769	6.769 (0.967)		15054	25.0000	24.25
47 Trichloroethene	130	7.378	7.378 (1.054)		13102	25.0000	23.57
49 1,2-Dichloropropane	63	7.676	7.676 (1.096)		14907	25.0000	23.88
50 Dibromomethane	93	7.797	7.797 (1.114)		6559	25.0000	21.95
53 Bromodichloromethane	83	7.968	7.968 (1.138)		11759	25.0000	20.41
57 cis-1,3-Dichloropropene	75	8.430	8.430 (1.204)		17314	25.0000	20.78
58 4-Methyl-2-Pentanone	43	8.612	8.612 (0.851)		11470	25.0000	20.49
60 Toluene	91	8.716	8.716 (0.861)		61865	25.0000	24.40
61 trans-1,3-Dichloropropene	75	9.032	9.032 (0.892)		13996	25.0000	20.89
63 1,3-Dichloropropane	76	9.373	9.373 (0.926)		20743	25.0000	24.48
64 1,1,2-Trichloroethane	97	9.209	9.209 (0.910)		1680	25.0000	24.00
65 Tetrachloroethene	164	9.233	9.233 (0.912)		9752	25.0000	24.11
66 2-Hexanone	43	9.452	9.452 (0.934)		6650	25.0000	16.07
67 Dibromochloromethane	129	9.561	9.561 (0.945)		6963	25.0000	18.80
68 1,2-Dibromoethane	107	9.677	9.677 (0.956)		5925	25.0000	22.58
70 Chlorobenzene	112	10.145	10.145 (1.002)		16515	25.0000	21.65
71 1,1,1,2-Tetrachloroethane	131	10.237	10.237 (1.011)		9030	25.0000	22.32
72 Ethylbenzene	106	10.231	10.231 (1.011)		19992	25.0000	23.77
73 m + p Xylene	106	10.352	10.352 (1.023)		47367	50.0000	46.36
74 Xylene-o	106	10.754	10.754 (1.063)		22827	25.0000	23.29
M 75 Xylenes (total)	106				70194	25.0000	71.58
76 Styrene	104	10.778	10.778 (1.065)		35854	25.0000	21.64
77 Bromoform	173	10.979	10.979 (1.085)		2930	25.0000	15.59
78 Isopropylbenzene	105	11.107	11.107 (1.097)		55985	25.0000	22.81
79 Bromobenzene	156	11.441	11.441 (0.918)		11540	25.0000	21.81
81 n-Propylbenzene	120	11.520	11.520 (0.925)		15151	25.0000	22.55
82 2-Chlorotoluene	126	11.630	11.630 (0.934)		12757	25.0000	24.52
83 1,1,2,2-Tetrachloroethane	83	11.484	11.484 (0.927)		11288	25.0000	23.22
84 1,2,3-Trichloropropane	110	11.533	11.533 (0.925)		3353	25.0000	22.81
85 4-Chlorotoluene	126	11.745	11.745 (0.943)		12647	25.0000	23.74
86 1,3,5-Trimethylbenzene	105	11.703	11.703 (0.939)		40813	25.0000	22.77
87 tert-Butylbenzene	119	12.013	12.013 (0.964)		36978	25.0000	23.85
88 1,2,4-Trimethylbenzene	105	12.080	12.080 (0.970)		38521	25.0000	22.08
89 sec-Butylbenzene	105	12.238	12.238 (0.982)		56653	25.0000	23.43
90 4-Isopropyltoluene	119	12.384	12.384 (0.994)		43109	25.0000	22.89
91 1,3-Dichlorobenzene	146	12.378	12.378 (0.994)		24438	25.0000	25.09
93 1,4-Dichlorobenzene	146	12.482	12.482 (1.002)		25057	25.0000	24.76
94 n-Butylbenzene	91	12.792	12.792 (1.027)		39974	25.0000	22.24
95 1,2-Dichlorobenzene	146	12.853	12.853 (1.032)		21145	25.0000	24.00

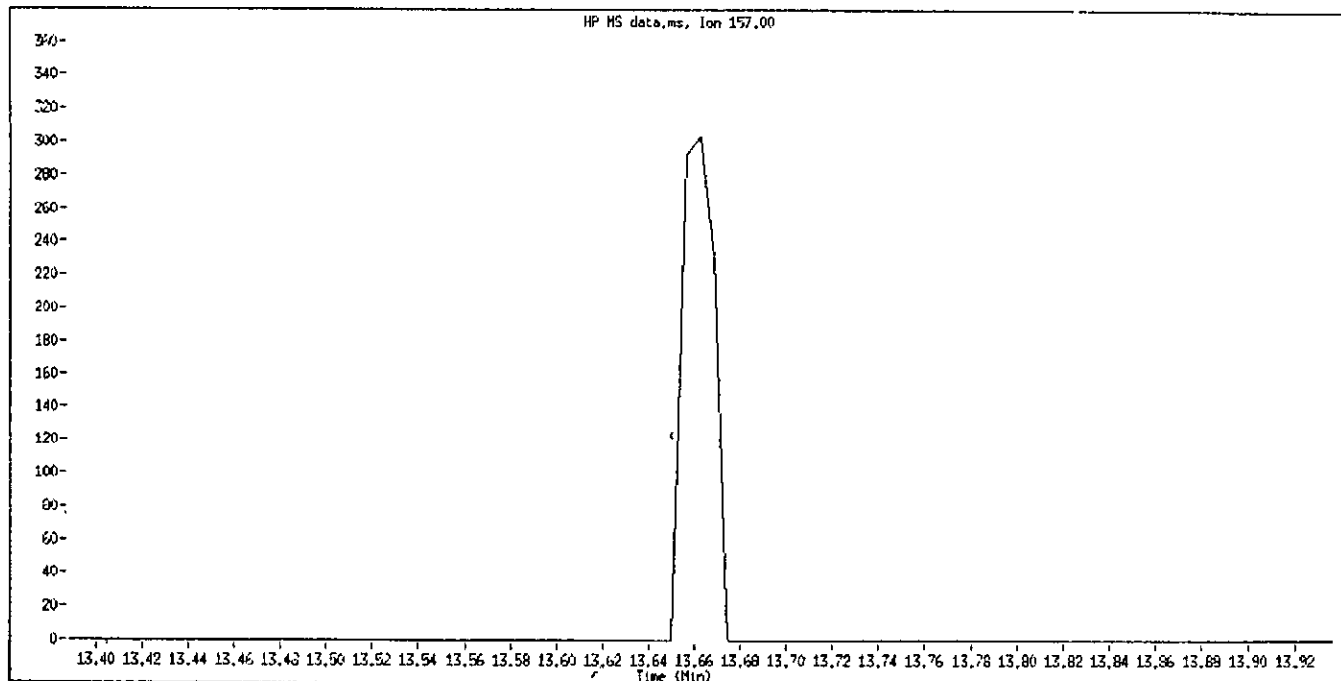
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL.-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
96 1,2-Dibromo-3-chloropropane	157	13.662	13.662	(1.097)	301	25.0000	7.583 (M) <i>2/12/01</i>
97 1,2,4-Trichlorobenzene	180	14.459	14.459	(1.161)	5977	25.0000	20.98
98 Hexachlorobutadiene	225	14.580	14.580	(1.170)	5550	25.0000	26.31
99 Naphthalene	128	14.714	14.714	(1.181)	6729	25.0000	13.68
100 1,2,3-Trichlorobenzene	180	14.964	14.964	(1.201)	4764	25.0000	25.31

QC Flag Legend

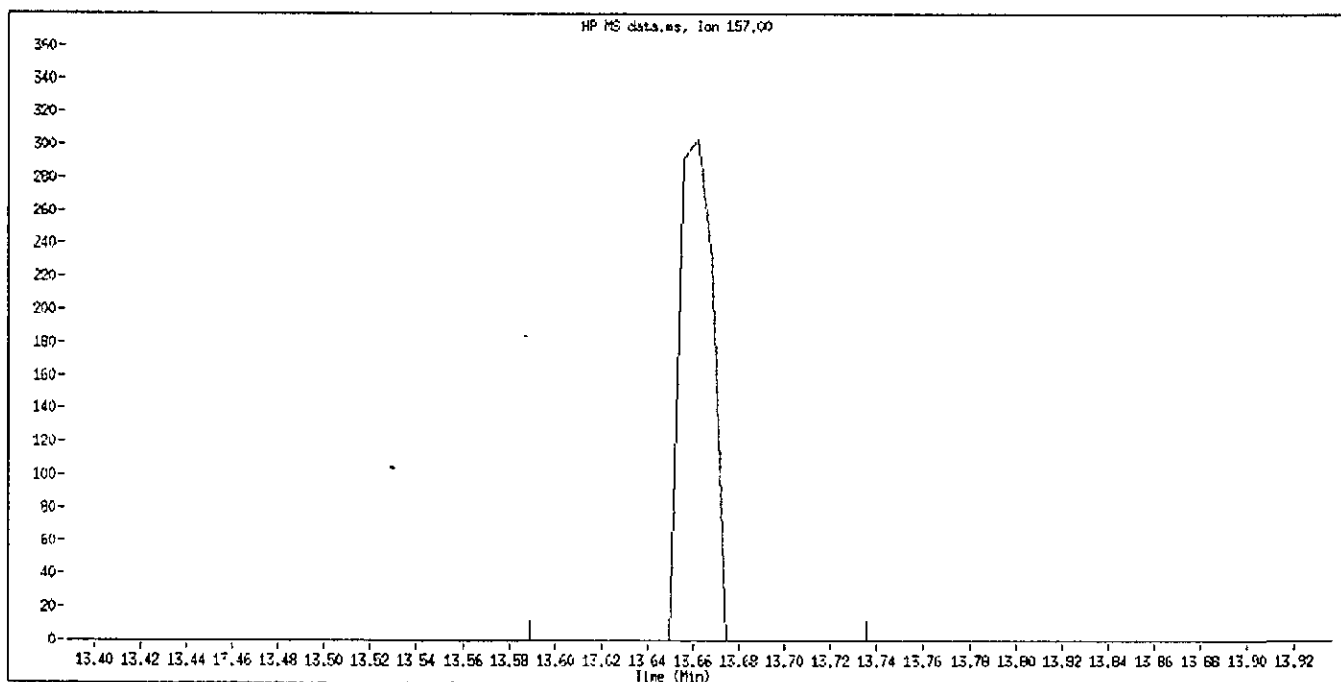
M - Compound response manually integrated.

Data File Name 2A40123.D
Inj Date and Time 23-JAN-2001 17:15
Instrument ID hp4.1
Client ID. vstd5
Compound Name 1,2-Dibromo-3-chloropropane
CAS # 96-12-8
Report Date 02/12/2001

678 129



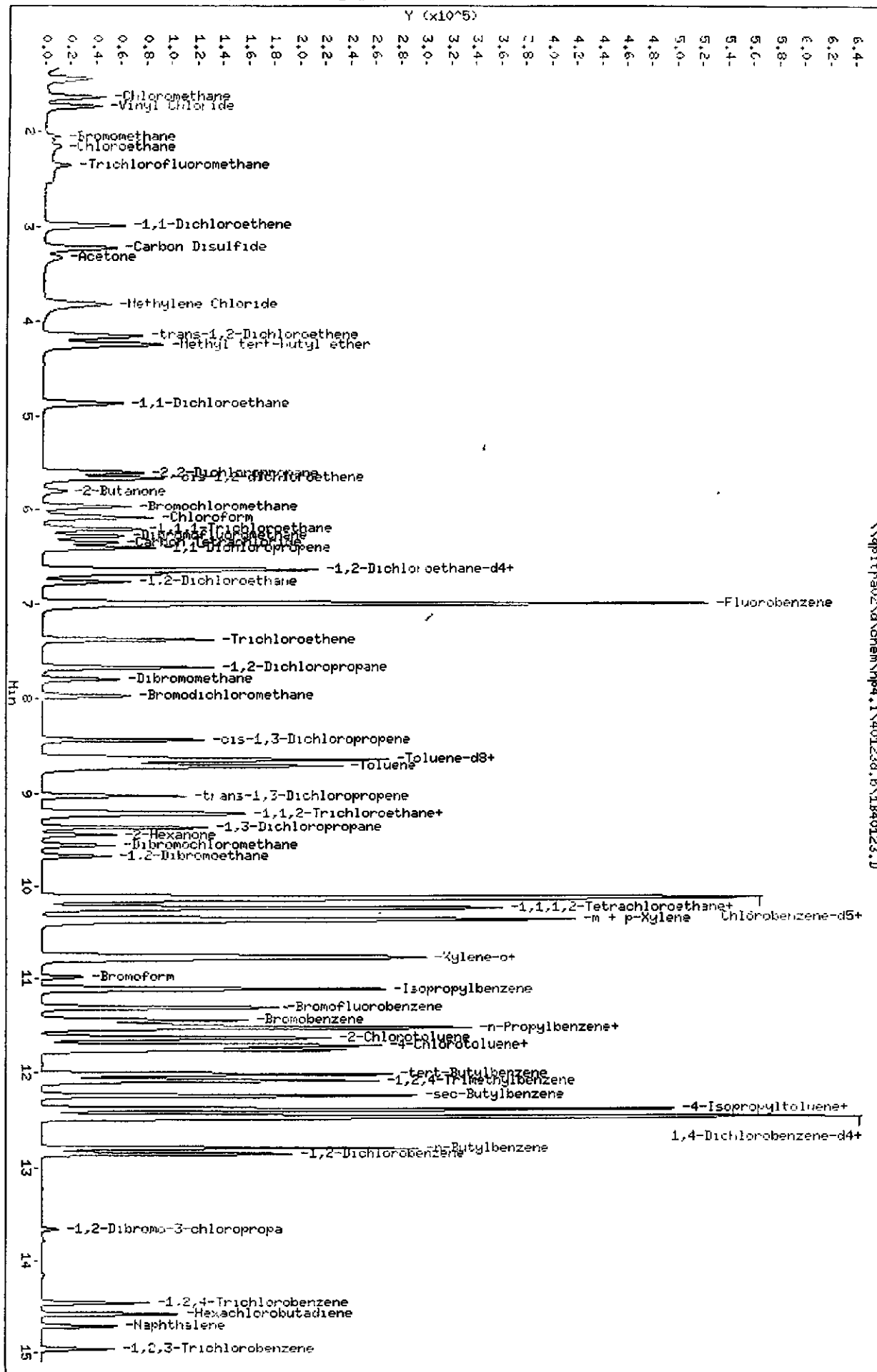
Original Integration



Manual Integration

Manually Integrated By DudeckK
Manual Integration Reason Peak Not Found

K₂/12/01



Data File: \\spitpa02\chem\hp4.1\40123d.b\B40123.D
 Date: 23-JAN-2001 13:46
 Client ID: vstd20
 Sample Info: vstd20 5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 16238
 Column diameter: 0.18

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp4.i\40123d.b\1B40123.D
Lab Smp Id: vstd20 Client Smp ID: vstd20
Inj Date : 23-JAN-2001 13:46
Operator : 16238 Inst ID: hp4.i
Smp Info : vstd20 5ml
Misc Info : vstd20,40123d.b,
Comment :
Method : \\qpitpa02\d\chem\hp4.i\40123d.b\med500.m
Meth Date : 12-Feb-2001 07:35 dudeckk Quant Type: ISTD
Cal Date : 23-JAN-2001 13:46 Cal File: 1B40123.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 4.04
Processing Host: PITPC077

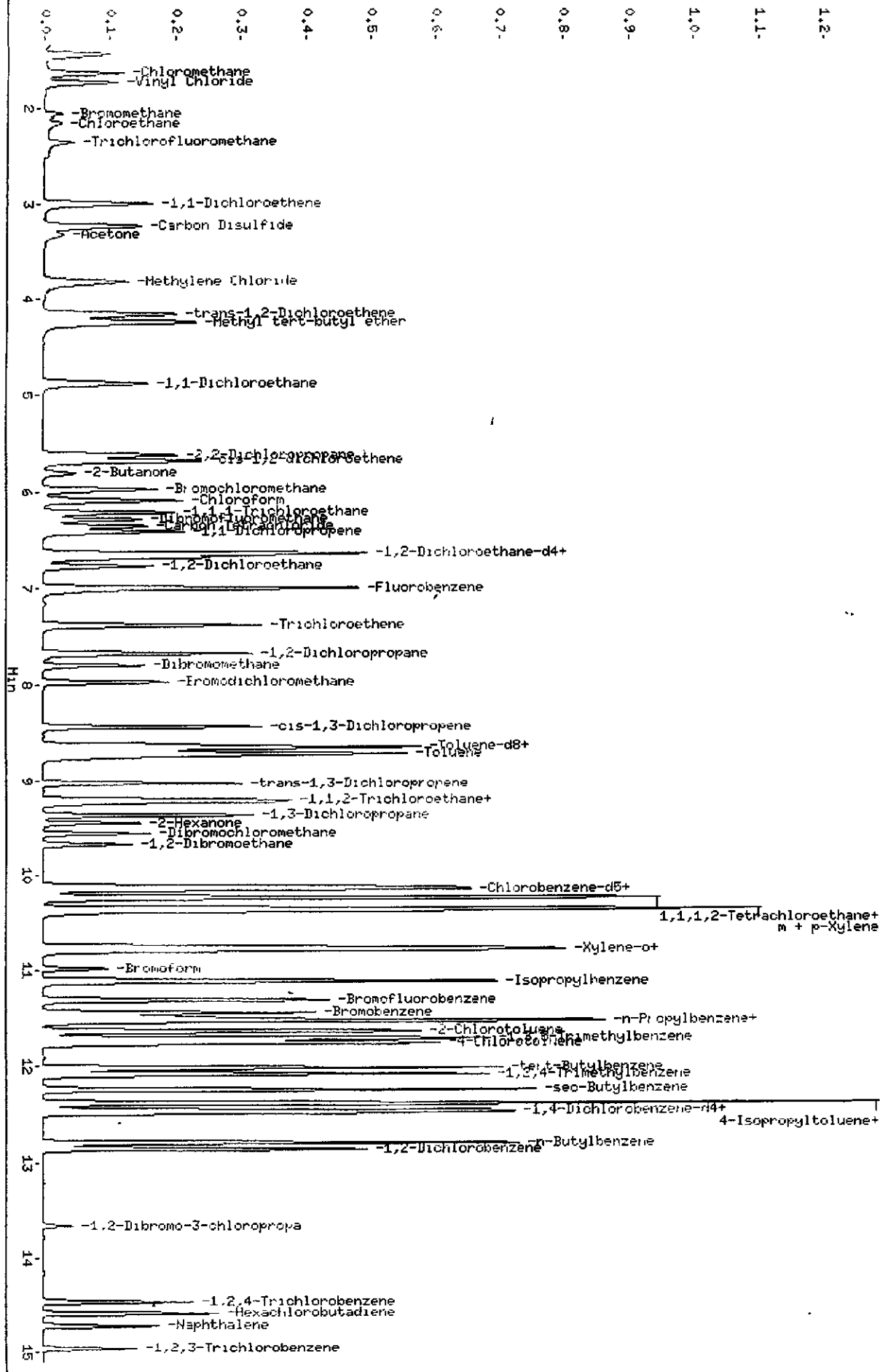
K 2/12/01

Concentration Formula: Amt * DF

Compounds	QUANT SIG			AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ON COL
-----	----	--	-----	-----	-----	-----
* 46 Fluorobenzene	96	6 995	6 995	(1 000)	620737	250 000
* 69 Chlorobenzene-d5	119	10 122	10 122	(1 000)	128213	250 000
* 92 1,4-Dichlorobenzene-d4	152	12 458	12 458	(1 000)	192912	250 000
\$ 39 Dibromofluoromethane	113	6 283	6 283	(0 898)	50760	100 000 100.0
\$ 43 1,2 Dichloroethane-d4	65	6 679	6 679	(0 955)	50289	100 000 100.0
\$ 59 Fluorobenzene-d8	98	8 643	8 643	(0 854)	263300	100 000 100.0
\$ 80 Bromofluorobenzene	95	11 308	11 308	(3 117)	92168	100 000 100.0
1 Dichlorodifluoromethane	85	1 453	1 453	(0 209)	62846	100 000 100.0
2 Chloromethane	50	1 635	1 635	(0 234)	78112	100 000 100.0
3 Vinyl Chloride	62	1 739	1 739	(0 249)	74075	100 000 100.0
4 Bromomethane	94	2 055	2 055	(0 294)	6470	100 000 100.0
5 Chloroethane	64	2 159	2 159	(0 309)	12920	100 000 100.0
6 Trichlorofluoromethane	101	2 353	2 353	(0 336)	15783	100 000 100.0
12 1,1 Dichloroethene	96	2 592	2 592	(0 428)	42067	100 000 100.0
13 Acetone	43	3 327	3 327	(0 476)	35004	100 000 100.0
15 Carbon Disulfide	76	3 229	3 229	(0 462)	134110	100 000 100.0
18 Methylene Chloride	84	3 819	3 819	(0 546)	52928	100 000 100.0
19 trans-1,2-Dichloroethene	96	4 154	4 154	(0 594)	58728	100 000 100.0
20 Methyl tert butyl ether	73	4.239	4 239	(0 606)	143140	100 000 100.0
24 1,1-Dichloroethane	63	4 866	4 866	(0 696)	98954	100 000 100.0
27 2,2-Dichloropropane	77	5 614	5 614	(0 803)	59486	100 000 100.0
28 cis-1,2 dichloroethene	96	5 675	5 675	(0.811)	61255	100 000 100.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	CN-CGL (ng)
M 29 1,2-Dichloroethene (total)	96				119983	200 000	200 0
30 Bromochloromethane	128	5.973	5.973	(0.854)	25390	100 000	100 0
31 2-Butanone	43	5.809	5.809	(0.830)	37230	100 000	100 0
37 Chloroform	83	6.082	6.082	(0.870)	80503	100 000	100 0
38 1,1,1-Trichloroethane	97	6.210	6.210	(0.888)	62529	100 000	100 0
40 1,1 Dichloropropene	75	6.405	6.405	(0.916)	51515	100 000	100 0
41 Carbon Tetrachloride	117	6.350	6.350	(0.908)	44079	100 000	100 0
42 Benzene	78	6.636	6.636	(0.949)	239198	100 000	100 0
45 1,2-Dichloroethane	62	6.764	6.764	(0.967)	59157	100 000	100 0
47 Trichloroethene	130	7.378	7.378	(1.055)	53120	100 000	100 0
49 1,2-Dichloropropane	63	7.670	7.670	(1.097)	60204	100 000	100 0
50 Dibromomethane	93	7.792	7.792	(1.114)	28836	100 000	100 0
53 Bromodichloromethane	83	7.962	7.962	(1.138)	52149	100 000	100 0
57 cis-1,3-Dichloropropene	75	8.431	8.431	(1.205)	77121	100 000	100 0
58 4 Methyl-2-Pentanone	43	8.613	8.613	(0.851)	75185	100 000	100 0
60 Toluene	91	8.710	8.710	(0.861)	252713	100 000	100 0
61 trans-1,3-Dichloropropene	75	9.027	9.027	(0.892)	63103	100 000	100 0
63 1,3 Dichloropropane	76	9.374	9.374	(0.926)	82639	100 000	100 0
64 1,1,2 Trichloroethane	97	9.203	9.203	(0.909)	47491	100 000	100 0
65 Tetrachloroethene	164	9.228	9.228	(0.912)	40203	100 000	100 0
66 2-Hexanone	43	9.453	9.453	(0.934)	43033	100 000	100 0
67 Dibromochloromethane	129	9.562	9.562	(0.945)	33295	100 000	100 0
68 1,2-Dibromoethane	107	9.678	9.678	(0.956)	43148	100 000	100 0
70 Chlorobenzene	112	10.146	10.146	(1.002)	149339	100 000	100 0
71 1,1,1,2-Tetrachloroethane	131	10.243	10.243	(1.012)	39430	100 000	100 0
72 Ethylbenzene	106	10.231	10.231	(1.011)	85098	100 000	100 0
73 m + p Xylene	106	10.353	10.353	(1.023)	209775	200 000	200 0
74 Xylene-o	106	10.754	10.754	(1.063)	99834	100 000	100 0
M 75 Xylenes (total)	106				309609	100 000	310 1
76 Styrene	104	10.779	10.779	(1.065)	168917	100 000	100 0
77 Bromoform	173	10.980	10.980	(1.085)	16899	100 000	100 0
78 Isopropylbenzene	105	11.107	11.107	(1.097)	250534	100 000	100 0
79 Bromobenzene	156	11.442	11.442	(0.918)	54157	100 000	100 0
81 n-Propylbenzene	120	11.515	11.515	(0.924)	70115	100 000	100 0
82 2-Chlorotoluene	126	11.630	11.630	(0.934)	56940	100 000	100 0
83 1,1,2,2-Tetrachloroethane	83	11.484	11.484	(0.922)	54132	100 000	100 0
84 1,2,3-Trichloropropane	110	11.527	11.527	(0.925)	16738	100 000	100 0
85 4-Chlorotoluene	126	11.746	11.746	(0.943)	58775	100 000	100 0
86 1,3,5-Trimethylbenzene	105	11.703	11.703	(0.939)	197102	100 000	100 0
87 tert Butylbenzene	119	12.014	12.014	(0.964)	170062	100 000	100 0
88 1,2,4-Trimethylbenzene	105	12.075	12.075	(0.969)	194376	100 000	100 0
89 sec-Butylbenzene	105	12.233	12.233	(0.982)	268643	100 000	100 0
90 4-Isopropyltoluene	119	12.385	12.385	(0.994)	212494	100 000	100 0
91 1,3-Dichlorobenzene	146	12.379	12.379	(0.994)	170217	100 000	100 0
93 1,4-Dichlorobenzene	146	12.482	12.482	(1.002)	111310	100 000	100 0
94 n Butylbenzene	91	12.792	12.792	(1.027)	196639	100 000	100 0
95 1,2 Dichlorobenzene	146	12.853	12.853	(1.032)	97955	100 000	100 0

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		VAL-AMT	ON-COL
*****	***	==	=====	=====	=====		(ng)	(ng)
96 1,2-Dibromo-3 chloropropane	157	13 662	13 662	(1 097)	4257		100 000	100 0
97 1,2,4-Trichlorobenzene	180	14 459	14 459	(1 161)	31585		100 000	100 0
98 Hexachlorobutadiene	225	14 581	14 581	(1 170)	22803		100 000	100.0
99 Naphthalene	128	14 709	14 709	(1 181)	55101		100 000	100.0
100 1,2,3-Trichlorobenzene	180	14 958	14 958	(1 201)	20492		100 000	100 0



Data File: \\pptipa02\chem\hpd4.1\401234.1\IC40123.D
 Date: 23-JAN-2001 14:09
 Client ID: vstd50
 Sample Info: vstd50 Sm1
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hpd.1
 Operator: 16236
 Column diameter: 0.18

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
 Data file : \\qpitpa02\d\chem\hp4.i\40123d.b\1C40123.D
 Lab Smp Id: vstd50 Client Smp ID: vstd50
 Inj Date : 23-JAN-2001 14:09
 Operator : 16238 Inst ID: hp4.i
 Smp Info : vstd50 5ml
 Misc Info : vstd50,40123d.b,
 Comment :
 Method : \\qpitpa02\d\chem\hp4.i\40123d.b\med500.m
 Meth Date : 12-Feb-2001 07:35 dudeckk Quant Type: ISTD
 Cal Date : 23-JAN-2001 14:09 Cal File: 1C40123.D
 Als bottle: 4 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-padep.sub
 Target Version: 4.04
 Processing Host: PITPC077

Concentration Formula: Amt * DF

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.996	6.996	(1.000)	608732	250.000	
* 69 Chlorobenzene d5	119	10.117	10.117	(1.000)	128032	250.000	
* 92 1,4-Dichlorobenzene d4	152	12.453	12.453	(1.000)	191827	250.000	
\$ 39 Dibromofluoromethane	113	6.279	6.279	(0.897)	115000	250.000	240.1
\$ 43 1,2-Dichloroethane-d4	65	6.680	6.680	(0.955)	132963	250.000	236.8
\$ 59 Toluene-d8	98	8.645	8.645	(0.854)	596232	250.000	237.8
\$ 80 Bromofluorobenzene	95	11.303	11.303	(1.117)	212105	250.000	239.8
1 Dichlorodifluoromethane	85	1.448	1.448	(0.207)	162809	250.000	236.9
2 Chloromethane	50	1.643	1.643	(0.235)	202876	250.000	257.2
3 Vinyl Chloride	62	1.740	1.740	(0.249)	189801	250.000	255.5
4 Bromomethane	94	2.057	2.057	(0.294)	19282	250.000	274.3
5 Chloroethane	64	2.154	2.154	(0.308)	31349	250.000	248.7
6 Trichlorofluoromethane	101	2.355	2.355	(0.337)	40264	250.000	255.0
12 1,1-Dichloroethene	96	2.993	2.993	(0.428)	138251	250.000	256.0
13 Acetone	43	3.122	3.122	(0.475)	67065	250.000	219.3
15 Carbon Disulfide	76	3.237	3.237	(0.463)	354962	250.000	239.6
18 Methylene Chloride	84	3.815	3.815	(0.545)	123246	250.000	243.6
19 trans-1,2-Dichloroethene	96	4.155	4.155	(0.594)	149599	250.000	254.8
20 Methyl tert-butyl ether	73	4.241	4.241	(0.606)	362596	250.000	254.1
24 1,1-Dichloroethane	63	4.873	4.873	(0.597)	246604	250.000	252.0
27 2,2-Dichloropropane	77	5.615	5.615	(0.803)	157667	250.000	259.7
28 cis-1,2-dichloroethene	96	5.676	5.676	(0.811)	154006	250.000	253.1

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL AMT (ng)	ON COL (ng)
=====	=====	=====	=====	=====	=====	=====	=====
M 29 1,2-Dichloroethene (total)	96				103605	500 000	507 9
30 Bromochloromethane	128	5.974	5.974 (0.854)		64170	250 000	253 3
31 2-Butanone	43	5.804	5.804 (0.830)		90928	250 000	249 5
37 Chloroform	83	6.084	6.084 (0.870)		202660	250 000	253 3
38 1,1,1-Trichloroethane	97	6.212	6.212 (0.888)		163178	250 000	257 8
40 1,1-Dichloropropene	75	6.406	6.406 (0.916)		128597	250 000	252 2
41 Carbon Tetrachloride	117	6.352	6.352 (0.908)		117119	250 000	260 0
42 Benzene	78	6.637	6.637 (0.949)		591113	250 000	251 0
45 1,2-Dichloroethane	62	6.771	6.771 (0.968)		145190	250 000	250 1
47 Trichloroethene	130	7.380	7.380 (1.055)		133132	250 000	252 8
49 1,2-Dichloropropane	63	7.672	7.672 (1.097)		148441	250 000	250 7
50 Dibromomethane	93	7.793	7.793 (1.114)		71635	250 000	251 6
53 Bromodichloromethane	83	7.964	7.964 (1.139)		138682	250 000	260 2
57 cis-1,3-Dichloropropene	75	8.432	8.432 (1.205)		203367	250 000	259 1
58 4-Methyl-2-Pentanone	43	8.615	8.615 (0.951)		143632	250 000	255 2
60 Toluene	91	8.712	8.712 (0.861)		632207	250 000	250 3
61 trans-1,3-Dichloropropene	75	9.028	9.028 (0.892)		168353	250 000	258 1
63 1,3-Dichloropropane	76	9.375	9.375 (0.927)		206393	250 000	250 0
64 1,1,2-Trichloroethane	97	9.205	9.205 (0.910)		120549	250 000	252 1
65 Tetrachloroethene	164	9.235	9.235 (0.913)		99365	250 000	248 7
66 2-Hexanone	43	9.454	9.454 (0.934)		108920	250 000	251 7
67 Dibromochloromethane	129	9.564	9.564 (0.945)		92823	250 000	263 8
68 1,2-Dibromoethane	107	9.679	9.679 (0.957)		109452	250 000	252 0
70 Chlorobenzene	112	10.148	10.148 (1.003)		314082	250 000	250 4
71 1,1,1,2-Tetrachloroethane	131	10.239	10.239 (1.012)		101122	250 000	253 4
72 Ethylbenzene	106	10.233	10.233 (1.011)		212498	250 000	250 1
73 m + p Xylene	106	10.354	10.354 (1.023)		523117	500 000	459 9
74 Xylene o	106	10.750	10.750 (1.063)		250656	250 000	250 7
M 75 Xylenes (total)	106				774073	250 000	774 2
76 Styrene	104	10.780	10.780 (1.066)		431957	250 000	253 0
77 Bromoform	173	10.981	10.981 (1.085)		50106	250 000	271 4
78 Isopropylbenzene	105	11.109	11.109 (1.098)		631156	250 000	251 1
79 Bromobenzene	156	11.443	11.443 (0.919)		134776	250 000	250 1
81 n-Propylbenzene	120	11.522	11.522 (0.925)		179683	250 000	253 8
82 2-Chlorotoluene	126	11.626	11.626 (0.944)		143590	250 000	251 8
83 1,1,2,2-Tetrachloroethane	83	11.486	11.486 (0.922)		137888	250 000	251 0
84 1,2,3-Trichloropropane	110	11.529	11.529 (0.926)		42091	250 000	251 4
85 4-Chlorotoluene	126	11.748	11.748 (0.943)		148728	250 000	250 2
86 1,3,5-Trimethylbenzene	105	11.705	11.705 (0.940)		502466	250 000	253 1
87 tert-Butylbenzene	119	12.015	12.015 (0.965)		430621	250 000	252 1
88 1,2,4-Trimethylbenzene	105	12.076	12.076 (0.970)		490829	250 000	252 0
89 sec-Butylbenzene	105	12.234	12.234 (0.982)		670501	250 000	250 5
90 4-Isopropyltoluene	119	12.380	12.380 (0.994)		527594	250 000	249 8
91 1,3-Dichlorobenzene	146	12.380	12.380 (0.994)		274243	250 000	250 1
93 1,4-Dichlorobenzene	146	12.478	12.478 (1.002)		277855	250 000	250 5
94 n-Butylbenzene	91	12.794	12.794 (1.027)		495340	250 000	251 6
95 1,2-Dichlorobenzene	146	12.855	12.855 (1.032)		245412	250 000	251 0

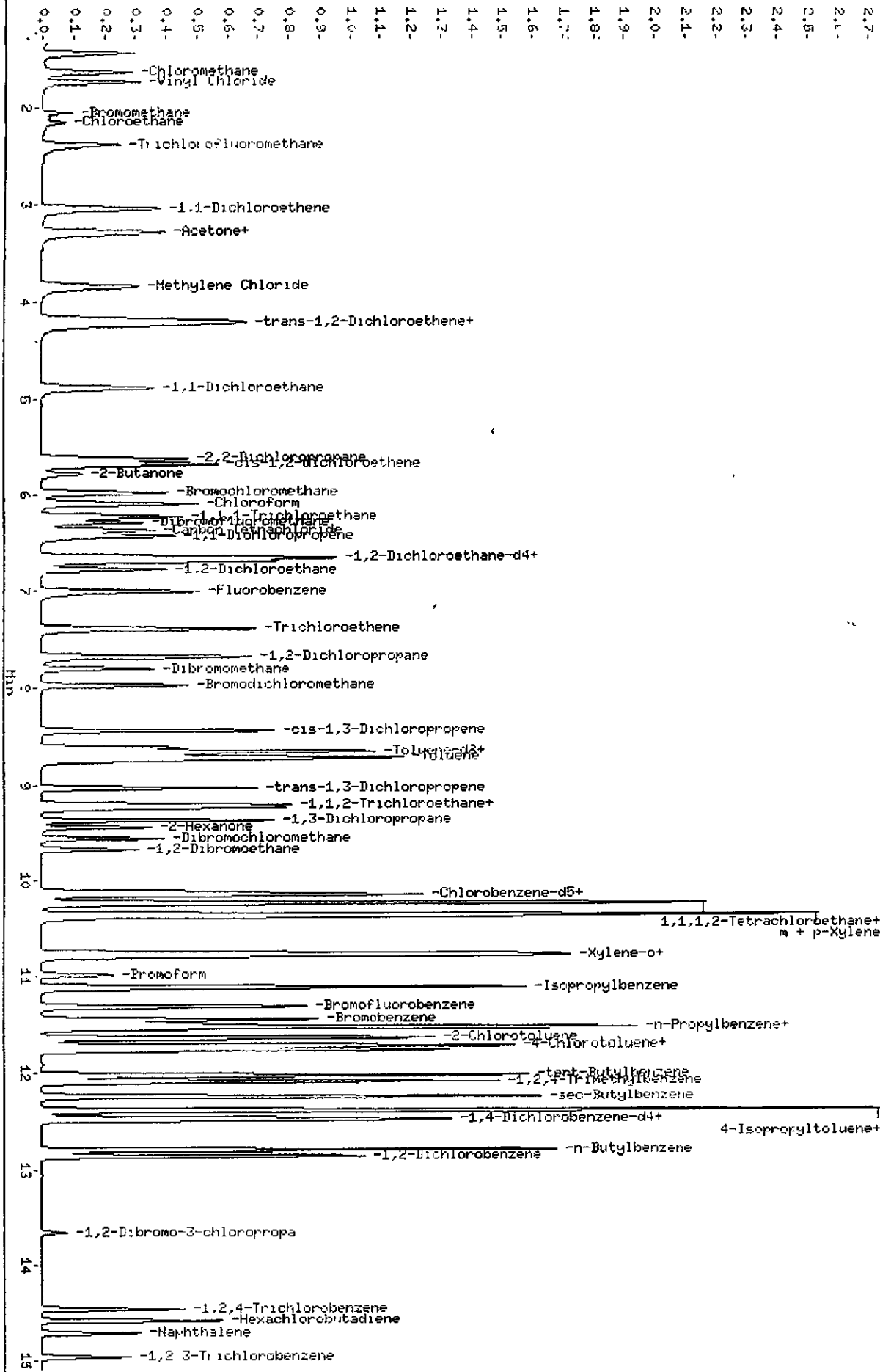
678 137

Compounds	QUANT SIG					AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL AMT (ng)	ON-COL (ng)	
*****	****	==	=====	=====	=====	-----	-----	
96 1,2-Dibromo 3 chloropropane	157	13.658	13.658	(1.097)	13396	250.000	279.3	
97 1,2,4-Trichlorobenzene	180	14.455	14.455	(1.161)	81424	250.000	251.5	
98 Hexachlorobutadiene	225	14.576	14.576	(1.170)	55453	250.000	247.2	
99 Naphthalene	128	14.710	14.710	(1.181)	160807	250.000	270.0	
100 1,2,3-Trichlorobenzene	180	14.960	14.960	(1.201)	51384	250.000	25.1	

Data File: \\sp1tpa02\chem\hp4.1\40123d.b\1D40123.D
 Date: 23-JAN-2001 14:40
 Client ID: vstd100
 Sample Info: vstd100 5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp4.1
 Operator: 16238
 Column diameter: 0.18

\\sp1tpa02\chem\hp4.1\40123d.b\1D40123.D



673 139

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\qpitpa02\d\chem\hp4.i\40123d.b\1D40123.D
Lab Smp Id: vstd100 Client Smp ID: vstd100
Inj Date : 23-JAN-2001 14:40
Operator : 16238 Inst ID: hp4.i
Smp Info : vstd100 5ml
Misc Info : vstd100,40123d.b,,
Comment :
Method : \\qpitpa02\d\chem\hp4.i\40123d.b\med500.m
Meth Date : 12-Feb-2001 07:35 dudeckk Quant Type: ISTD
Cal Date : 23-JAN-2001 14:40 Cal File: 1D40123.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 4.04
Processing Host: PITPC077

K2/14.1

Concentration Formula: Amt * DF

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL AM1 (ng)	ON CCL (ng)
* 46 Fluorobenzene	96	7.001	7.001	(1.000)	685082	250.000	
* 69 Chlorobenzene-d5	119	10.122	10.122	(1.000)	132700	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.458	12.458	(1.000)	194056	250.000	
\$ 39 Dibromofluoromethane	113	6.283	6.283	(0.897)	252766	500.000	178.9
\$ 43 1,2-Dichloroethane d4	65	6.685	6.685	(0.955)	293425	500.000	475.6
\$ 59 Toluene-d8	98	8.650	8.650	(0.855)	1203889	500.000	474.9
\$ 80 Bromofluorobenzene	95	11.308	11.308	(1.117)	406530	500.000	460.8
1 Dichlorodifluoromethane	85	1.447	1.447	(0.207)	403671	500.000	542.1
2 Chloromethane	50	1.636	1.636	(0.231)	505962	500.000	544.6
3 Vinyl Chloride	62	1.739	1.739	(0.248)	474308	500.000	543.0
4 Bromomethane	94	2.055	2.055	(0.294)	65995	500.000	682.2
5 Chloroethane	64	2.153	2.153	(0.308)	77127	500.000	528.3
6 Trichlorofluoromethane	101	2.378	2.378	(0.340)	360180	500.000	1005
12 1,1-Dichloroethene	96	3.041	3.041	(0.434)	281390	500.000	557.4
13 Acetone	43	3.290	3.290	(0.470)	135377	500.000	466.6
15 Carbon Disulfide	76	3.284	3.284	(0.469)	913926	500.000	558.9
18 Methylene Chloride	84	3.838	3.838	(0.548)	297379	500.000	514.6
19 trans-1,2-Dichloroethene	96	4.185	4.185	(0.598)	364484	500.000	513.2
20 Methyl tert-butyl ether	73	4.227	4.227	(0.604)	885660	500.000	533.7
24 1,1-Dichloroethane	63	4.890	4.890	(0.699)	591460	500.000	524.2
27 2,2-Dichloropropane	77	5.626	5.626	(0.804)	396277	500.000	550.7
28 cis-1,2-dichloroethene	96	5.687	5.687	(0.812)	368996	500.000	525.3

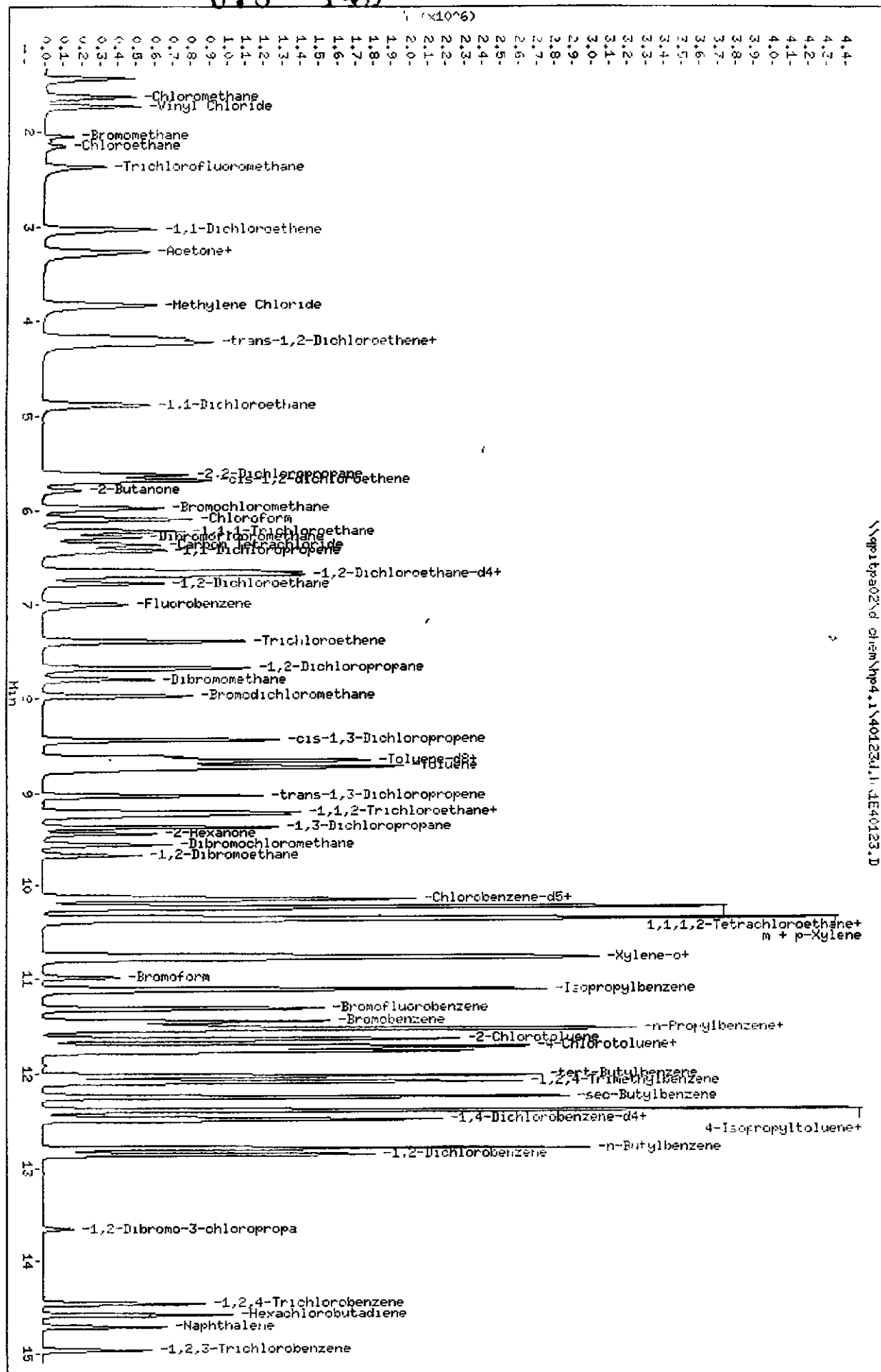
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT	ON COL
=====	=====	==	=====	=====	=====	(ng,	ng)
M 29 1,2-Dichloroethene (total)	96				733481	1000 00	1058
30 Bromochloromethane	128	5.979	5.979	(0.854)	150866	500 000	519.7
31 2-Butanone	43	5.785	5.785	(0.826)	216655	500 000	518.5
37 Chloroform	83	6.089	6.089	(0.870)	499213	500 000	528.1
38 1,1,1-Trichloroethane	97	6.223	6.223	(0.889)	398987	500 000	538.5
40 1,1-Dichloropropene	75	6.423	6.423	(0.917)	308636	500 000	524.7
41 Carbon Tetrachloride	117	6.369	6.369	(0.910)	296213	500 000	553.3
42 Benzene	78	6.648	6.648	(0.950)	1372300	500 000	511.7
45 1,2-Dichloroethane	62	6.776	6.776	(0.968)	353386	500 000	526.6
47 Trichloroethene	130	7.385	7.385	(1.055)	314097	500 000	519.5
49 1,2-Dichloropropane	63	7.677	7.677	(1.096)	347839	500 000	544.5
50 Dibromomethane	93	7.798	7.798	(1.114)	173454	500 000	526.9
53 Bromodichloromethane	83	7.969	7.969	(1.138)	348879	500 000	551.6
57 cis-1,3-Dichloropropene	75	8.437	8.437	(1.205)	493786	500 000	537.8
58 4-Methyl-2-Pentanone	43	8.607	8.607	(0.850)	333011	500 000	545.1
60 Toluene	91	8.717	8.717	(0.861)	1418800	500 000	527.2
61 trans-1,3-Dichloropropene	75	9.027	9.027	(0.892)	405456	500 000	562.6
63 1,3-Dichloropropane	76	9.374	9.374	(0.926)	482058	500 000	540.6
64 1,1,2-Trichloroethane	97	9.210	9.210	(0.910)	277802	500 000	538.8
65 Tetrachloroethene	164	9.234	9.234	(0.912)	228100	500 000	532.8
66 2-Hexanone	43	9.447	9.447	(0.933)	252901	500 000	540.9
67 Dibromochloromethane	129	9.562	9.562	(0.945)	231545	500 000	582.5
68 1,2-Dibromoethane	107	9.678	9.678	(0.956)	254549	500 000	541.8
70 Chlorobenzene	112	10.153	10.153	(0.903)	813416	500 000	516.6
71 1,1,1,2-Tetrachloroethane	131	10.244	10.244	(1.012)	232709	500 000	540.0
72 Ethylbenzene	106	10.238	10.238	(1.011)	465792	500 000	528.8
73 m + p Xylene	106	10.359	10.359	(1.023)	1133340	1000 00	1029
74 Xylene-o	106	10.755	10.755	(1.063)	544240	500 000	516.5
M 75 Xylenes (total)	106				1677581	500 000	1592
76 Styrene	104	10.779	10.779	(1.065)	938167	500 000	519.7
77 Bromoform	173	10.980	10.980	(1.085)	120893	500 000	580.8
78 Isopropylbenzene	105	11.108	11.108	(1.097)	1359059	500 000	516.8
79 Bromobenzene	156	11.442	11.442	(0.918)	284506	500 000	514.4
81 n-Propylbenzene	120	11.521	11.521	(0.925)	386151	500 000	525.4
82 2-Chlorotoluene	126	11.631	11.631	(0.931)	304960	500 000	518.7
83 1,1,1,2,2-Tetrachloroethane	81	11.485	11.485	(0.922)	287164	500 000	513.8
84 1,2,3-Trichloropropane	110	11.534	11.534	(0.926)	86177	500 000	505.9
85 4-Chlorotoluene	126	11.746	11.746	(0.943)	315202	500 000	519.6
86 1,3,5-Trimethylbenzene	105	11.704	11.704	(0.939)	1078193	500 000	524.0
87 tert Butylbenzene	119	12.014	12.014	(0.964)	921319	500 000	521.9
88 1,2,4-Trimethylbenzene	105	12.081	12.081	(0.970)	1053425	500 000	522.5
89 sec-Butylbenzene	105	12.239	12.239	(0.982)	1445366	500 000	522.0
90 4-Isopropyltoluene	119	12.385	12.385	(0.994)	1136171	500 000	520.8
91 1,3-Dichlorobenzene	146	12.385	12.385	(0.994)	554077	500 000	505.6
93 1,4-Dichlorobenzene	146	12.483	12.483	(1.002)	594974	500 000	519.8
94 n-Butylbenzene	91	12.793	12.793	(1.027)	1098445	500 000	533.3
95 1,2-Dichlorobenzene	146	12.854	12.854	(1.032)	517204	500 000	515.0

673 141

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON COL (ng)
*****		==	=====	=====	=====	=====	=====
96 1,2-Dibromo 3 chloropropane	157	13 663	13 663	(1 097)	24903	500 000	508 8
97 1,2,4-Trichlorobenzene	180	14 460	14 460	(1 161)	168451	500 000	513 5
98 Hexachlorocyclopentadiene	225	14 581	14 581	(1 170)	122045	500 000	374 6
99 Naphthalene	128	14 709	14 709	(1 181)	293451	500 000	491 3
100 1,2,3 Trichlorobenzene	180	14 959	14 959	(1 201)	101756	500 000	494 3

Data File: \\pp1tpa02\chem\hp4.1\40123d.b\40123.D
 Date: 23-JAN-2001 15:05
 Client ID: vstd200
 Sample Info: vstd200 5ml
 Purge Volume: 5.0
 Column phase: DP 624

Instrument: hp4.1
 Operator: 16238
 Column diameter: 0.18



673 143

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.1\40123d b\1E40123.D
Lab Smp Id: vstd200 Client Smp ID: vstd200
Inj Date : 23-JAN-2001 15:05
Operator : 16238 Inst ID: hp4.1
Smp Info : vstd200 5ml
Misc Info : vstd200,40123d.b,
Comment :
Method : \\qpitpa02\d\chem\hp4.1\40123d.b\med500.m
Meth Date : 12-Feb-2001 07:36 dudeckk Quant Type: ISTD
Cal Date : 23-JAN-2001 15:05 Cal File: 1E40123.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-padep.sub
Target Version: 4.04
Processing Host: PITPC077

K₂/2/01

Concentration Formula: Amt * DF

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	7.001	7.001	(1.000)	662390	250.000	
* 69 Chlorobenzene-d5	119	10.121	10.121	(1.000)	134155	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.457	12.457	(1.000)	197576	250.000	
\$ 39 Diodonofluoromethane	113	6.283	6.283	(0.897)	421015	1000.00	862.7
\$ 43 1,2-Dichloroethane d4	65	6.684	6.684	(0.955)	484319	1000.00	857.0
\$ 59 Toluene-d6	98	8.649	8.649	(0.855)	2058130	1000.00	844.7
\$ 80 Bromofluorobenzene	95	11.308	11.308	(1.117)	716468	1000.00	844.9
1 Dichlorodifluoromethane	85	1.440	1.440	(0.206)	639673	1000.00	914.2
2 Chloromethane	50	1.629	1.629	(0.233)	807503	1000.00	922.2
3 Vinyl Chloride	62	1.732	1.732	(0.248)	704101	1000.00	926.8
4 Bromomethane	94	2.049	2.049	(0.293)	104856	1000.00	1088
5 Chloroethane	64	2.152	2.152	(0.307)	126362	1000.00	920.5
6 Trichlorofluoromethane	101	2.365	2.365	(0.338)	399361	1000.00	1109
12 1,1-Dichloroethene	96	3.028	3.028	(0.433)	442012	1000.00	927.3
13 Acetone	43	3.302	3.302	(0.472)	278132	1000.00	817.6
15 Carbon Disulfide	76	3.265	3.265	(0.466)	1456779	1000.00	939.8
18 Methylene Chloride	84	3.831	3.831	(0.547)	574996	1000.00	1022
19 trans 1,2 Dichloroethene	96	4.178	4.178	(0.597)	586691	1000.00	913.4
20 Methyl tert-butyl ether	73	4.227	4.227	(0.604)	1414514	1000.00	907.9
24 1,1-Dichloroethane	63	4.884	4.884	(0.698)	956951	1000.00	904.9
27 2,2 Dichloropropane	77	5.626	5.626	(0.804)	652259	1000.00	952.3
28 cis-1,2-dichloroethene	96	5.680	5.680	(0.811)	596301	1000.00	905.6

Compound	QUANT SIG	MASS	RT	EXP RI	REL RI	RESPONSE	AMOUNTS	
							CAL-AMT	ON COL
							(ng)	(ng)
M 29 1,2-Dichloroethene (total)		96				1182993	2000.00	1819
30 Bromochloromethane		128	5.979	5.979	(0.854)	245630	1000.00	903.3
31 2-Butanone		43	5.784	5.784	(0.826)	352630	1000.00	901.5
37 Chloroform		93	6.088	6.088	(0.870)	792131	1000.00	910.7
38 1,1,1-Trichloroethane		97	6.222	6.222	(0.889)	666031	1000.00	946.4
40 1,1-Dichloropropene		75	6.423	6.423	(0.917)	524548	1000.00	940.5
41 Carbon Tetrachloride		117	6.362	6.362	(0.909)	506434	1000.00	983.7
42 Benzene		78	6.648	6.648	(0.950)	2275420	1000.00	905.2
45 1,2-Dichloroethane		62	6.775	6.775	(0.968)	574253	1000.00	911.2
47 Trichloroethane		130	7.390	7.390	(1.056)	519167	1000.00	913.7
49 1,2-Dichloropropane		63	7.676	7.676	(1.096)	582826	1000.00	916.4
50 Dibromomethane		93	7.797	7.797	(1.114)	285973	1000.00	921.8
53 Bromodichloromethane		83	7.968	7.968	(1.138)	593927	1000.00	978.2
57 cis-1,3-Dichloropropene		75	8.436	8.436	(1.205)	837166	1000.00	956.7
58 4-Methyl-2-Pentanone		43	8.607	8.607	(0.850)	570776	1000.00	942.0
60 Toluene		91	8.716	8.716	(0.861)	2405032	1000.00	910.3
61 trans-1,3-Dichloropropene		75	9.026	9.026	(0.892)	702956	1000.00	973.4
63 1,3-Dichloropropane		76	9.373	9.373	(0.926)	823458	1000.00	933.6
64 1,1,2-Trichloroethane		97	9.209	9.209	(0.910)	472401	1000.00	928.0
65 Tetrachloroethene		164	9.233	9.233	(0.912)	391669	1000.00	927.0
66 2-Hexanone		43	9.446	9.446	(0.933)	449377	1000.00	962.5
67 Dibromochloromethane		129	9.562	9.562	(0.945)	414006	1000.00	1022
68 1,2-Dibromoethane		107	9.677	9.677	(0.956)	439995	1000.00	943.7
70 Chlorobenzene		112	10.152	10.152	(1.003)	1359463	1000.00	906.6
71 1,1,1,2-Tetrachloroethane		131	10.243	10.243	(1.012)	413174	1000.00	960.8
72 Ethylbenzene		106	10.231	10.231	(1.011)	801026	1000.00	909.2
73 m-p-Xylene		106	10.359	10.359	(1.023)	1938648	1000.00	1759
74 Xylene-o		106	10.754	10.754	(1.063)	936352	1000.00	906.4
M 75 Xylenes (total)		106				2875001	1000.00	2783
76 Styrene		104	10.784	10.784	(1.066)	2618579	1000.00	912.7
77 Bromoform		173	10.979	10.979	(1.085)	220185	1000.00	1014
78 Isopropylbenzene		105	11.107	11.107	(1.097)	2355753	1000.00	906.9
79 Bromobenzene		156	11.448	11.448	(0.919)	493949	1000.00	905.0
81 n-Propylbenzene		120	11.521	11.521	(0.925)	663851	1000.00	913.0
82 2-Chlorotoluene		126	11.630	11.630	(0.934)	533035	1000.00	913.6
83 1,1,2,2-Tetrachloroethane		93	11.484	11.484	(0.922)	497150	1000.00	907.1
84 1,2,3-Trichloropropane		110	11.533	11.533	(0.926)	149070	1000.00	890.8
85 4-Chlorotoluene		126	11.746	11.746	(0.943)	545262	1000.00	907.3
86 1,3,5-Trimethylbenzene		105	11.703	11.703	(0.939)	1820870	1000.00	921.4
87 tert-Butylbenzene		119	12.013	12.013	(0.964)	1596503	1000.00	913.8
88 1,2,4-Trimethylbenzene		105	12.080	12.080	(0.970)	1842401	1000.00	921.2
89 sec-Butylbenzene		105	12.238	12.238	(0.982)	2484126	1000.00	908.2
90 4-Isopropyltoluene		119	12.384	12.384	(0.994)	1905678	1000.00	889.6
91 1,3-Dichlorobenzene		146	12.384	12.384	(0.994)	927744	1000.00	856.1
93 1,4-Dichlorobenzene		146	12.482	12.482	(1.002)	1023326	1000.00	905.7
94 n-Butylbenzene		91	12.792	12.792	(1.027)	1938116	1000.00	947.0
95 1,2-Dichlorobenzene		146	12.853	12.853	(1.032)	898251	1000.00	906.6

678 145

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL. AMT	UN-COL.
							(ng)	(ng)
96 1,2-Dibromo-1 chloropropane	157	13.662	13.662	(1.097)	49763		1000.00	999.0
97 1,2,4-Trichlorobenzene	180	14.459	14.459	(1.161)	318801		1000.00	965.5
98 Hexachlorobutadiene	225	14.581	14.581	(1.170)	217193		1000.00	936.5
99 Naphthalene	128	14.708	14.708	(1.181)	615857		1000.00	1010
100 1,2,3 Trichlorobenzene	180	14.958	14.958	(1.201)	207357		1000.00	992.0

673 146

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP4

Calibration Date: 03/16/01 Time: 0713

Lab File ID: CC40316

Init. Calib. Date(s): 01/23/01 01/23/01

Heated Purge: (Y/N) N

Init. Calib. Times: 1346 1715

GC Column: DB 624 ID: 0.18 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.258	0.280	0.01	8.5	50.0
Chloromethane	0.326	0.334	0.1	2.4	50.0
Vinyl Chloride	0.308	0.307	0.01	0.3	20.0
Bromomethane	0.036	0.032	0.01	11.1	50.0
Chloroethane	0.051	0.055	0.01	7.8	50.0
Trichlorofluoromethane	0.150	0.194	0.01	29.3	50.0
1,1-Dichloroethene	0.178	0.149	0.01	16.3	20.0
Methylene Chloride	0.209	0.236	0.01	12.9	50.0
trans-1,2-Dichloroethene	0.238	0.250	0.01	5.0	50.0
1,1-Dichloroethane	0.392	0.390	0.1	0.5	50.0
cis-1,2-dichloroethene	0.242	0.256	0.01	5.8	50.0
Chloroform	0.323	0.333	0.01	3.1	20.0
Bromochloromethane	0.100	0.108	0.01	8.0	50.0
1,1,1-Trichloroethane	0.257	0.274	0.01	6.6	50.0
Carbon Tetrachloride	0.185	0.217	0.01	17.3	50.0
1,2-Dichloroethane	0.236	0.235	0.01	0.4	50.0
Benzene	0.941	0.982	0.01	4.4	50.0
Trichloroethene	0.211	0.230	0.01	9.0	50.0
1,2-Dichloropropane	0.237	0.242	0.01	2.1	20.0
Bromodichloromethane	0.219	0.244	0.01	11.4	50.0
cis-1,3-Dichloropropene	0.317	0.353	0.01	11.4	50.0
Toluene	4.894	5.038	0.01	2.9	20.0
trans-1,3-Dichloropropene	1.293	1.401	0.01	8.4	50.0
1,1,2-Trichloroethane	0.939	0.975	0.01	3.8	50.0
Tetrachloroethene	0.780	0.843	0.01	8.1	50.0
Dibromochloromethane	0.711	0.850	0.01	19.5	50.0
Chlorobenzene	2.867	3.049	0.3	6.3	50.0
Ethylbenzene	1.622	1.717	0.01	5.8	20.0
Styrene	3.197	3.439	0.01	7.6	50.0
Bromoform	0.363	0.426	0.1	17.4	50.0
1,1,2,2-Tetrachloroethane	0.685	0.752	0.3	9.8	50.0
1,3-Dichlorobenzene	1.373	1.443	0.01	5.1	50.0
1,4-Dichlorobenzene	1.426	1.510	0.01	5.9	50.0
1,2-Dichlorobenzene	1.242	1.320	0.01	6.3	50.0
Dibromomethane	0.114	0.121	0.01	6.1	50.0
1,2-Dibromoethane	0.848	0.912	0.01	7.5	50.0
1,1,1,2-Tetrachloroethane	0.781	0.875	0.01	12.0	50.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

673 147

Lab Name: STL-PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP4

Calibration Date: 03/16/01

Time: 0713

Lab File ID: CC40316

Init. Calib. Date(s): 01/23/01

01/23/01

Heated Purge: (Y/N) N

Init. Calib. Times:

1346

1715

GC Column: DB 624

ID: 0.18 (mm)

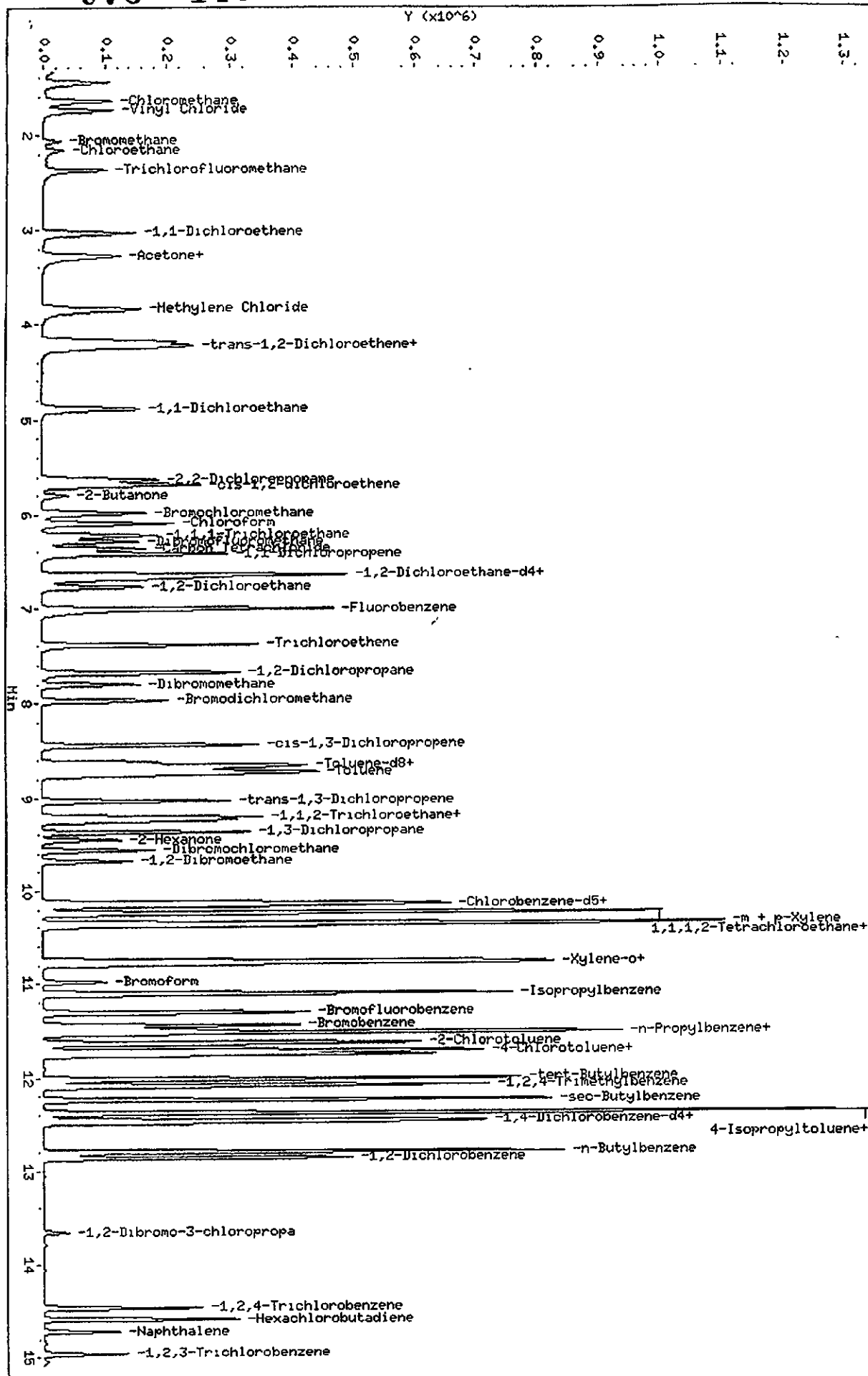
COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,2,3-Trichloropropane	0.207	0.217	0.01	4.8	50.0
1,2-Dibromo-3-chloropropane	0.054	0.068	0.01	25.9	50.0
2,2-Dichloropropane	0.248	0.265	0.01	6.8	50.0
1,1-Dichloropropene	0.205	0.294	0.01	43.4	50.0
1,3-Dichloropropane	1.635	1.706	0.01	4.3	50.0
n-Propylbenzene	0.907	1.008	0.01	11.1	50.0
Bromobenzene	0.683	0.724	0.01	6.0	50.0
1,3,5-Trimethylbenzene	2.526	2.774	0.01	9.8	50.0
2-Chlorotoluene	0.733	0.800	0.01	9.1	50.0
4-Chlorotoluene	0.751	0.822	0.01	9.4	50.0
tert-Butylbenzene	2.186	2.391	0.01	9.4	50.0
1,2,4-Trimethylbenzene	2.459	2.792	0.01	13.5	50.0
sec-Butylbenzene	3.407	3.720	0.01	9.2	50.0
4-Isopropyltoluene	2.654	3.002	0.01	13.1	50.0
n-Butylbenzene	2.533	3.007	0.01	18.7	50.0
1,2,4-Trichlorobenzene	0.401	0.489	0.01	21.9	50.0
Hexachlorobutadiene	0.297	0.344	0.01	15.8	50.0
Naphthalene	0.693	0.616	0.01	11.1	50.0
1,2,3-Trichlorobenzene	0.265	0.265	0.01	0.0	50.0
Acetone	0.122	0.054	0.01	55.7	50.0
Carbon Disulfide	0.573	0.520	0.01	9.2	50.0
2-Butanone	0.141	0.114	0.01	19.1	50.0
4-Methyl-2-Pentanone	1.080	1.094	0.01	1.3	50.0
2-Hexanone	0.799	0.731	0.01	8.5	50.0
Methyl tert-butyl ether	0.576	0.581	0.01	0.9	50.0
Isopropylbenzene	4.737	5.092	0.01	7.5	50.0
1,2-Dichloroethene (total)	0.240	0.253	0.01	5.4	50.0
Xylenes (total)	1.893	2.003	0.01	5.8	50.0
=====	=====	=====	=====	=====	=====
Dibromofluoromethane	0.188	0.191	0.01	1.6	50.0
1,2-Dichloroethane-d4	0.221	0.201	0.01	9.0	50.0
Toluene-d8	4.702	4.506	0.01	4.2	50.0
Bromofluorobenzene	1.624	1.559	0.01	4.0	50.0

<-

Data File: \\spitpa02\chem\hp4.1\40316d.b\CC40316.D
 Date: 16-MAR-2001 07:13
 Client ID: vstd50
 Sample Info: vstd50 5ml
 Volume Injected (uL): 5.0
 Column phase: DB 624

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

\\spitpa02\chem\hp4.1\40316d.b\CC40316.D



673 149

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
 Data file : \\qpitpa02\d\chem\hp4.i\40316d.b\CC40316.D
 Lab Smp Id: vstd50 Client Smp ID: vstd50
 Inj Date : 16-MAR-2001 07:13
 Operator : 16328 Inst ID: hp4.i
 Smp Info : vstd50 5ml
 Misc Info : vstd50 ,40316d.b,8260bh2o.M,
 Comment :
 Method : \\QPITPA02\D\chem\hp4.i\40316d.b\8260bh2o.m
 Meth Date : 16-Mar-2001 07:47 dudeckk Quant Type: ISTD
 Cal Date : 01-MAR-2001 11:27 Cal File: 2B40301.D
 Als bottle: 4 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-padep.sub
 Target Version: 4.04
 Processing Host: PITPC077

K
3/16/01

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	7.006	7 006	(1.000)	611531	250 000		
* 69 Chlorobenzene-d5	119	10 127	10 127	(1 000)	128535	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12 457	12.457	(1 000)	187438	250 000		
\$ 39 Dibromofluoromethane	113	6 288	6 288	(0 898)	116615	250 000		253.4
\$ 43 1,2-Dichloroethane-d4	65	6.690	6 690	(0 955)	123219	250 000		228.2
\$ 59 Toluene-d8	98	8.655	8 655	(0 855)	579121	250.000		239.5
\$ 80 Bromofluorobenzene	95	11.307	11.307	(1 117)	200401	250.000		240 0
1 Dichlorodifluoromethane	85	1 452	1 452	(0 207)	170995	250.000		270 9
2 Chloromethane	50	1.647	1 647	(0.235)	204395	250 000		255 8
3 Vinyl Chloride	62	1 744	1 744	(0.249)	187583	250 000		248.9
4 Bromomethane	94	2.066	2.066	(0.295)	19784	250 000		227.9
5 Chloroethane	64	2 158	2 158	(0 308)	33529	250 000		266.5
6 Trichlorofluoromethane	101	2.365	2 365	(0 338)	118698	250 000		322 6
12 1,1-Dichloroethene	96	3 034	3 034	(0 433)	91021	250 000		208.8
13 Acetone	43	3 314	3 314	(0 473)	33255	250.000		111 8

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT (ng)	ON-COL (ng)
-----	----	----	----	-----	-----	-----	-----	-----
15 Carbon Disulfide	76		3.277	3.277	(0.468)	317761	250.000	226.8
18 Methylene Chloride	84		3.843	3.843	(0.549)	144133	250.000	282.2
19 trans-1,2-Dichloroethene	96		4.184	4.184	(0.597)	152605	250.000	262.3
20 Methyl tert-butyl ether	73		4.232	4.232	(0.604)	355542	250.000	252.4
24 1,1-Dichloroethane	63		4.889	4.889	(0.698)	238271	250.000	248.2
27 2,2-Dichloropropane	77		5.631	5.631	(0.804)	162141	250.000	267.6
28 cis-1,2-dichloroethene	96		5.686	5.686	(0.812)	156707	250.000	265.2
M 29 1,2-Dichloroethene (total)	96					309313	500.000	527.6
30 Bromochloromethane	128		5.984	5.984	(0.854)	65936	250.000	267.9
31 2-Butanone	43		5.790	5.790	(0.826)	69780	250.000	202.0
37 Chloroform	83		6.094	6.094	(0.870)	203914	250.000	257.7
38 1,1,1-Trichloroethane	97		6.221	6.221	(0.888)	167424	250.000	265.8
40 1,1-Dichloropropene	75		6.422	6.422	(0.917)	179964	250.000	358.1
41 Carbon Tetrachloride	117		6.367	6.367	(0.909)	132887	250.000	292.9
42 Benzene	78		6.647	6.647	(0.949)	600688	250.000	261.1
45 1,2-Dichloroethane	62		6.775	6.775	(0.967)	143730	250.000	248.9
47 Trichloroethene	130		7.383	7.383	(1.054)	140780	250.000	272.2
49 1,2-Dichloropropane	63		7.675	7.675	(1.096)	148205	250.000	255.2
50 Dibromomethane	93		7.797	7.797	(1.113)	73820	250.000	265.6
53 Bromodichloromethane	83		7.967	7.967	(1.137)	148987	250.000	278.0
57 cis-1,3-Dichloropropene	75		8.436	8.436	(1.204)	215722	250.000	278.3
58 4-Methyl-2-Pentanone	43		8.612	8.612	(0.850)	140655	250.000	253.2
60 Toluene	91		8.722	8.722	(0.861)	647627	250.000	257.4
61 trans-1,3-Dichloropropene	75		9.026	9.026	(0.891)	180119	250.000	271.0
63 1,3-Dichloropropane	76		9.373	9.373	(0.925)	219232	250.000	260.8
64 1,1,2-Trichloroethane	97		9.208	9.208	(0.909)	125380	250.000	259.6
65 Tetrachloroethene	164		9.245	9.245	(0.913)	108351	250.000	270.0
66 2-Hexanone	43		9.452	9.452	(0.933)	93916	250.000	228.7
67 Dibromochloromethane	129		9.561	9.561	(0.944)	109231	250.000	298.8
68 1,2-Dibromoethane	107		9.683	9.683	(0.956)	117184	250.000	268.7
70 Chlorobenzene	112		10.151	10.151	(1.002)	391940	250.000	265.9
71 1,1,1,2-Tetrachloroethane	131		10.243	10.243	(1.011)	112501	250.000	280.4
72 Ethylbenzene	106		10.237	10.237	(1.011)	220706	250.000	264.7
73 m + p-Xylene	106		10.358	10.358	(1.023)	537364	500.000	530.1
74 Xylene-o	106		10.760	10.760	(1.062)	257439	250.000	264.6
M 75 Xylenes (total)	106					794804	250.000	816.9
76 Styrene	104		10.784	10.784	(1.065)	442021	250.000	268.9
77 Bromoform	173		10.979	10.979	(1.084)	54736	250.000	293.6
78 Isopropylbenzene	105		11.106	11.106	(1.097)	654535	250.000	268.8
79 Bromobenzene	156		11.447	11.447	(0.919)	135647	250.000	265.0
81 n-Propylbenzene	120		11.520	11.520	(0.925)	188935	250.000	277.9
82 2-Chlorotoluene	126		11.630	11.630	(0.934)	149924	250.000	272.7
83 1,1,2,2-Tetrachloroethane	83		11.484	11.484	(0.922)	140912	250.000	274.3
84 1,2,3-Trichloropropane	110		11.532	11.532	(0.926)	40706	250.000	262.0
85 4-Chlorotoluene	126		11.751	11.751	(0.943)	154010	250.000	273.5
86 1,3,5-Trimethylbenzene	105		11.709	11.709	(0.940)	520053	250.000	274.5
87 tert-Butylbenzene	119		12.013	12.013	(0.964)	448224	250.000	273.5

678 151

Compounds	QUANT SIG							AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)	
*****	****	****	****	*****	*****	*****	*****	*****	*****
88 1,2,4-Trimethylbenzene		105	12.080	12.080 (0.970)		523298	250.000	283.8	
89 sec-Butylbenzene		105	12.238	12.238 (0.982)		697249	250.000	272.9	
90 4-Isopropyltoluene		119	12.384	12.384 (0.994)		562705	250.000	282.7	
91 1,3-Dichlorobenzene		146	12.384	12.384 (0.994)		270552	250.000	262.9	
93 1,4-Dichlorobenzene		146	12.481	12.481 (1.002)		283135	250.000	264.8	
94 n-Butylbenzene		91	12.792	12.792 (1.027)		563599	250.000	296.7	
95 1,2-Dichlorobenzene		146	12.852	12.852 (1.032)		247441	250.000	265.7	
96 1,2-Dibromo-3-chloropropane		157	13.655	13.655 (1.096)		12742	250.000	315.8	
97 1,2,4-Trichlorobenzene		180	14.458	14.458 (1.161)		91735	250.000	304.6	
98 Hexachlorobutadiene		225	14.580	14.580 (1.170)		64518	250.000	289.4	
99 Naphthalene		128	14.714	14.714 (1.181)		115531	250.000	222.2	
100 1,2,3-Trichlorobenzene		180	14.957	14.957 (1.201)		49630	250.000	249.5	

678 152

**GC/MS VOLATILE
QC DATA**

Date : 27-JAN-2001 10:14 : : r

Client ID: 50NGEBF

Instrument: hp4.1

678 153

Sample Info: bfb 1ul inj

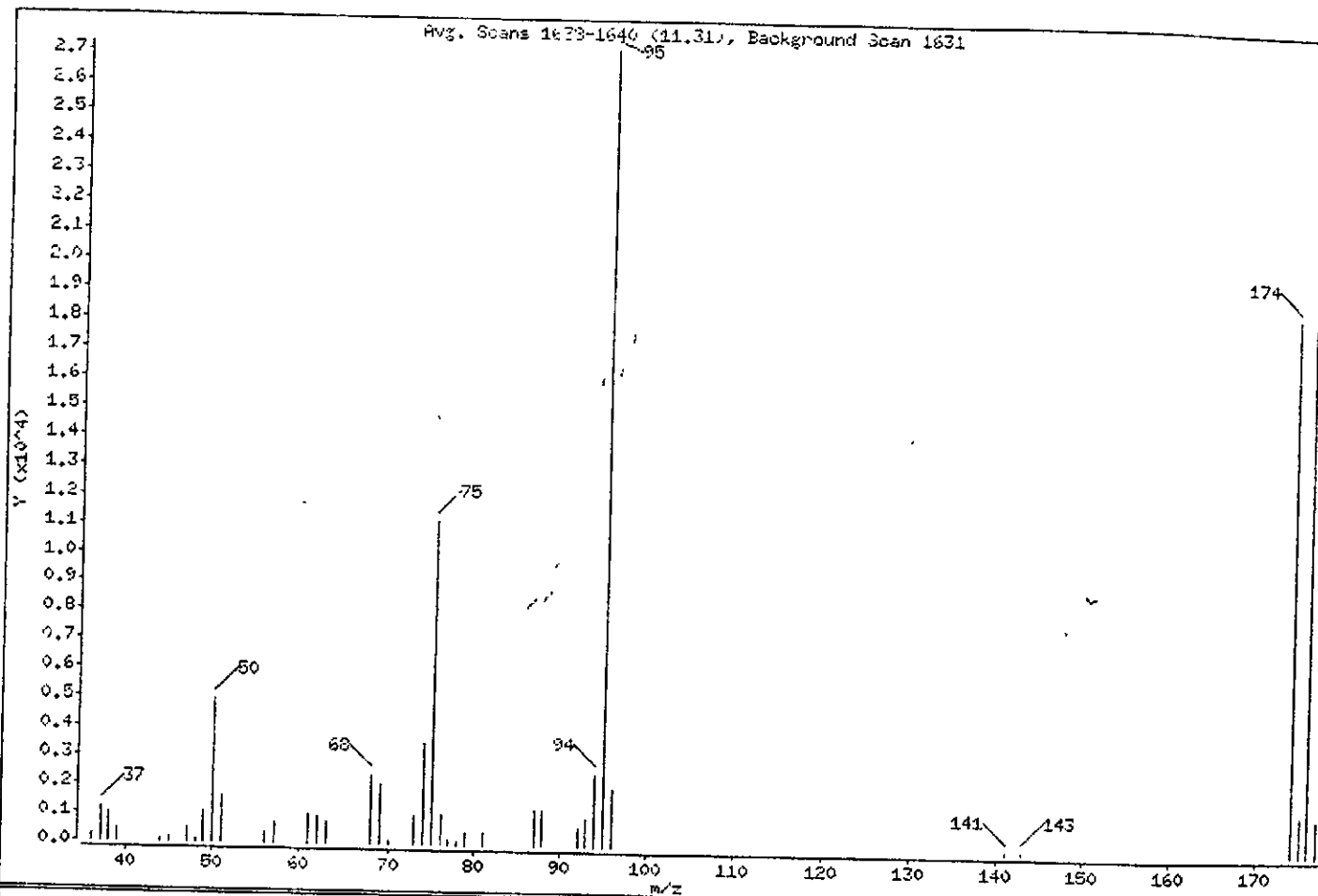
Volume Injected (uL): 1.0

Operator: 16238

Column phase: DB624 20m

Column diameter: 0.18

1 bfb



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.19
75	30.00 - 60.00% of mass 95	40.85
96	5.00 - 9.00% of mass 95	7.31
177	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	68.15
175	5.00 - 9.00% of mass 174	5.00 (7.34)
176	95.00 - 101.00% of mass 174	17.07 (98.41)
177	5.00 - 9.00% of mass 176	4.63 (6.91)

Date : 23-JAN-2001 10:14

673 154

Client ID: 50NGBFB

Instrument: hp4.1

Sample Info: bfb 1ul inj

Volume Injected (uL): 1.0

Operator: 16238

Column phase: DB624 20u

Column diameter: 0.18

Data File: EF40123.D

Spectrum: Avg. Scans 1638-1649 (11.31), Background Scan 1631

Location of Maximum: 95.00

Number of points: 41

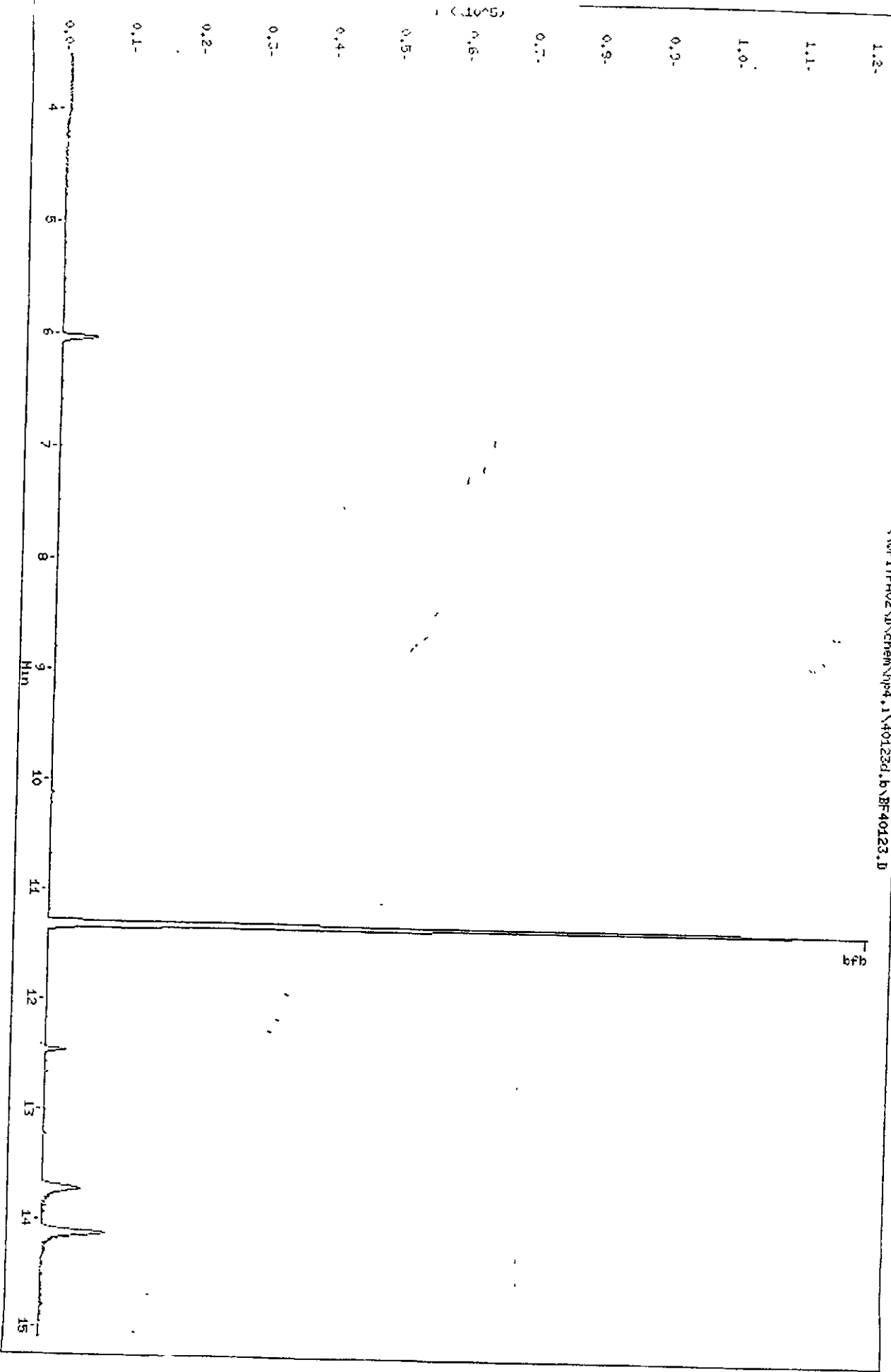
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	277	56.00	347	75.00	11143	95.00	27280
37.00	1206	57.00	673	76.00	1090	96.00	1935
38.00	397	60.00	85	77.00	169	141.00	69
39.00	422	61.00	1030	78.00	137	143.00	82
44.00	148	62.00	940	79.00	426	174.00	18592
45.00	163	63.00	753	81.00	433	175.00	1365
47.00	487	68.00	2387	87.00	1250	176.00	13296
48.00	144	69.00	2060	88.00	1248	177.00	1264
49.00	1062	70.00	153	92.00	632		
50.00	4962	73.00	1014	93.00	947		
51.00	1601	74.00	3532	94.00	2506		

Date : 23-JAN-2001 10:14
Client ID: 50HGBFB
Sample Info: bfb tul mj
Volume injected (ul): 1.0
Column phase: DB624 20m

673 155
Instrument: hp4.1

Operator: 16238
Column diameter: 0.18

\\PITFA02\chem\hp4.1\40123d.b\BF40123.D



Date : 16-MAR-2001 06:44

Client ID: 50NGBFB

Instrument: hp4.1

Sample Info: bfb 1ul inj

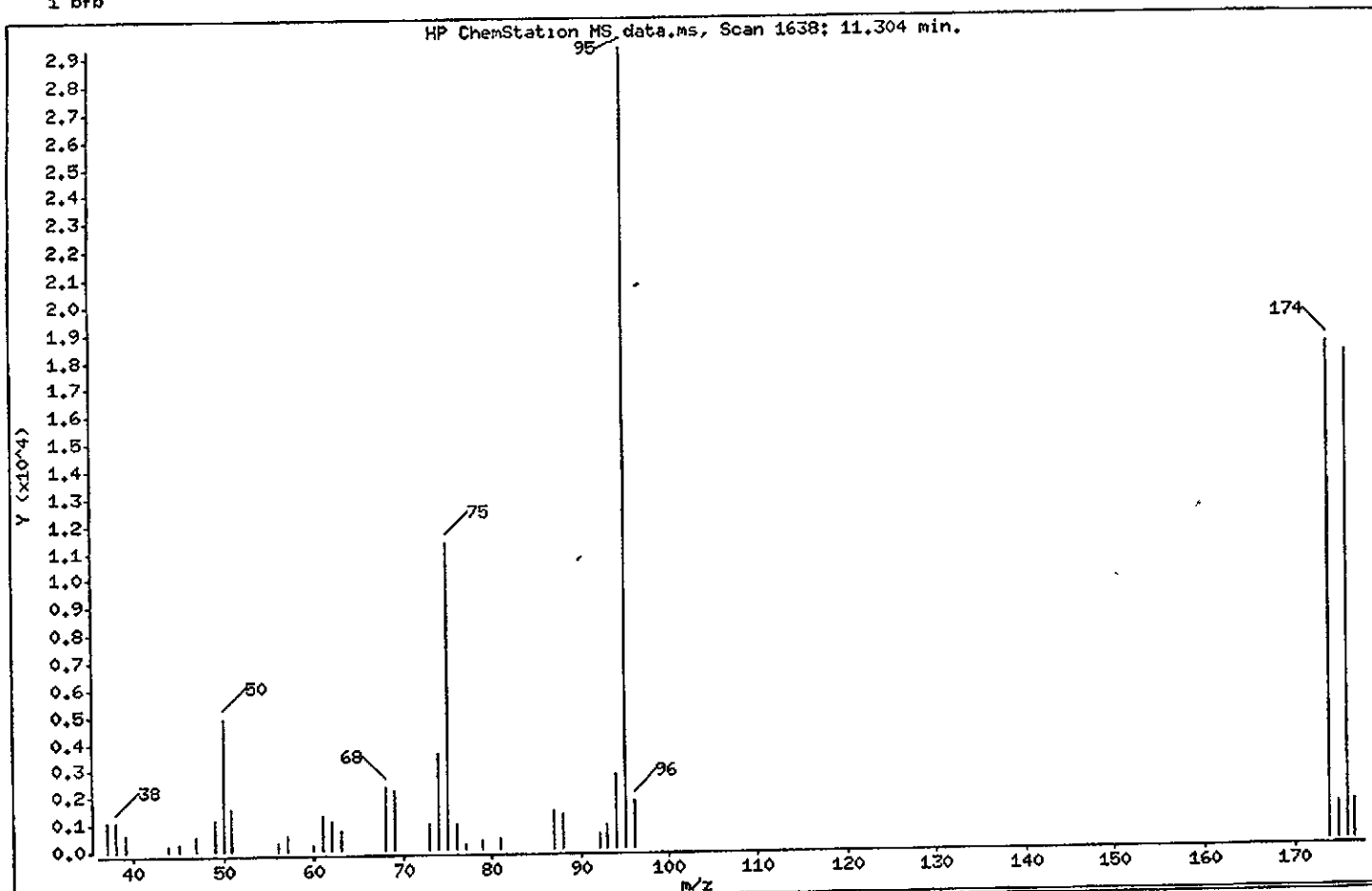
Volume Injected (uL): 1.0

Operator: 16328

Column phase: DB624 20m

Column diameter: 0.19

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	16.89
75	30.00 - 60.00% of mass 95	38.69
96	5.00 - 9.00% of mass 95	5.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	62.49
175	5.00 - 9.00% of mass 174	4.70 (7.53)
176	95.00 - 101.00% of mass 174	61.42 (98.29)
177	5.00 - 9.00% of mass 176	4.73 (7.70)

Date : 16-MAR-2001 06:44

Client ID: 50NCBFB

Instrument: hp4.i

Sample Info: bfb 1ul inj

Volume Injected (uL): 1.0

Operator: 16328

Column phase: DB624 20m

Column diameter: 0.18

Data File: BF40316.D

Spectrum: HP ChemStation HS data.ms, Scan 1638: 11.304 min.

Location of Maximum: 95.00

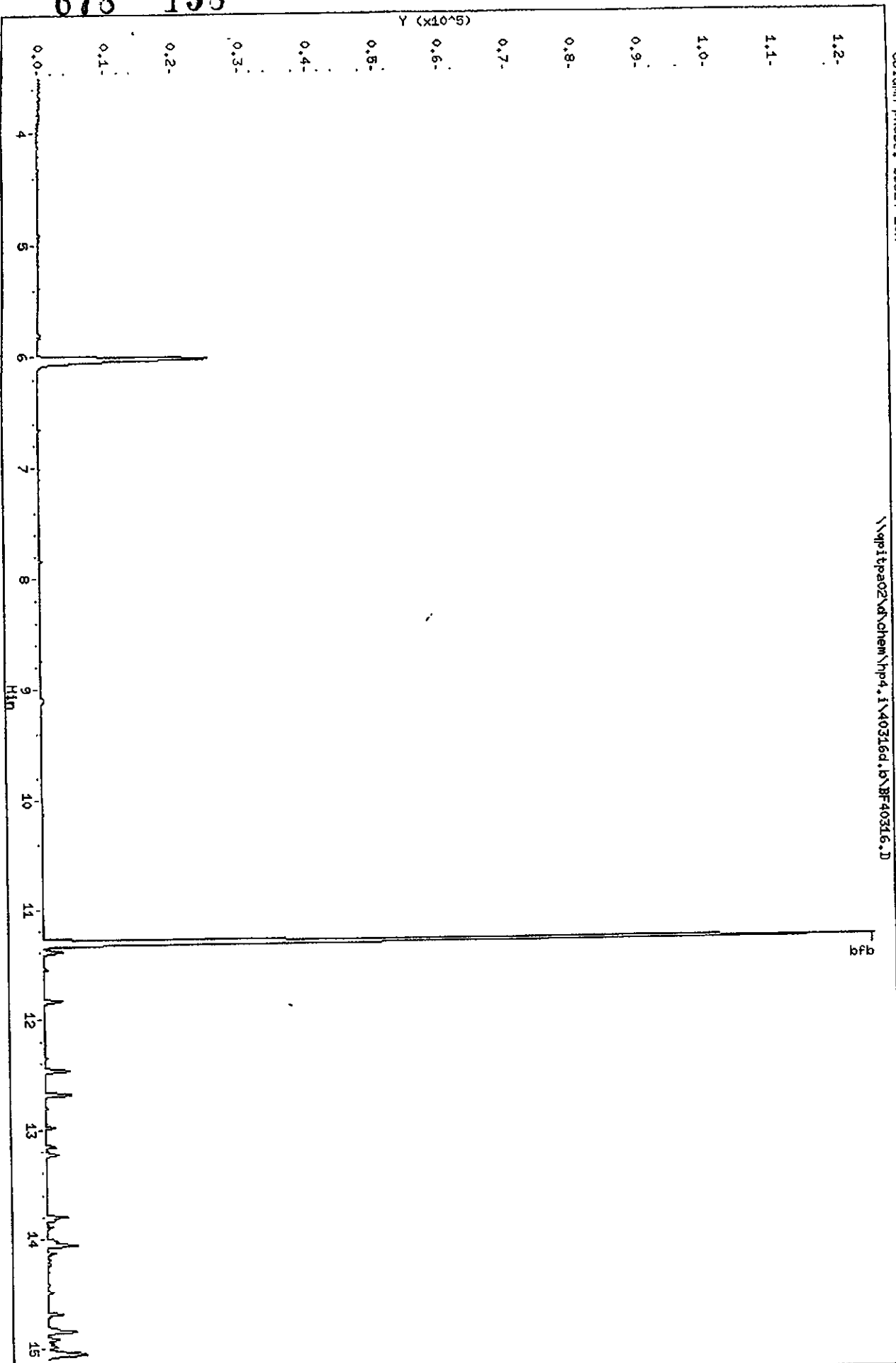
Number of points: 35

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	1080	56.00	293	74.00	3546	93.00	885
38.10	1104	57.10	539	75.00	11329	94.00	2772
39.10	605	60.00	229	76.10	943	95.00	29280
44.00	224	61.00	1297	77.00	216	96.00	1735
45.10	271	62.00	1091	78.90	367	173.90	18296
47.10	537	63.10	774	80.90	375	175.00	1377
49.00	1133	68.00	2344	87.00	1434	176.00	17984
50.10	4945	69.10	2191	88.00	1256	176.90	1384
51.00	1546	73.00	958	92.00	567		

Data File: \\optipa02\chem\hp4.1\40316d.b\BF40316.D
 Date: 16-MAR-2001 06:44
 Client ID: SONGBFB
 Sample Info: bfb 1u1 1nj
 Volume Injected (uL): 1.0
 Column phase: DB624 20m

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

\\optipa02\chem\hp4.1\40316d.b\BF40316.D



678 158

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

673 153

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

Matrix: (soil/water) WATER Lab Sample ID: C1C160000 223

Method: SW846 8260B
Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL Date Received: 03/14/01
Work Order: DXHFG1AA Date Extracted: 03/16/01
Dilution factor: 1 Date Analyzed: 03/16/01
Moisture %: NA

QC Batch: 1075223

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

FORM I

678 160

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C160000 223

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/14/01

Work Order: DXHFG1AA

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075223

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: \\ppitpa02\chem\hp4.1\40316d.b\4031601.D
Date: 16-MAR-2001 08:11

Client ID:

Sample Info: vblk 5ml

Volume Injected (ul): 5.0

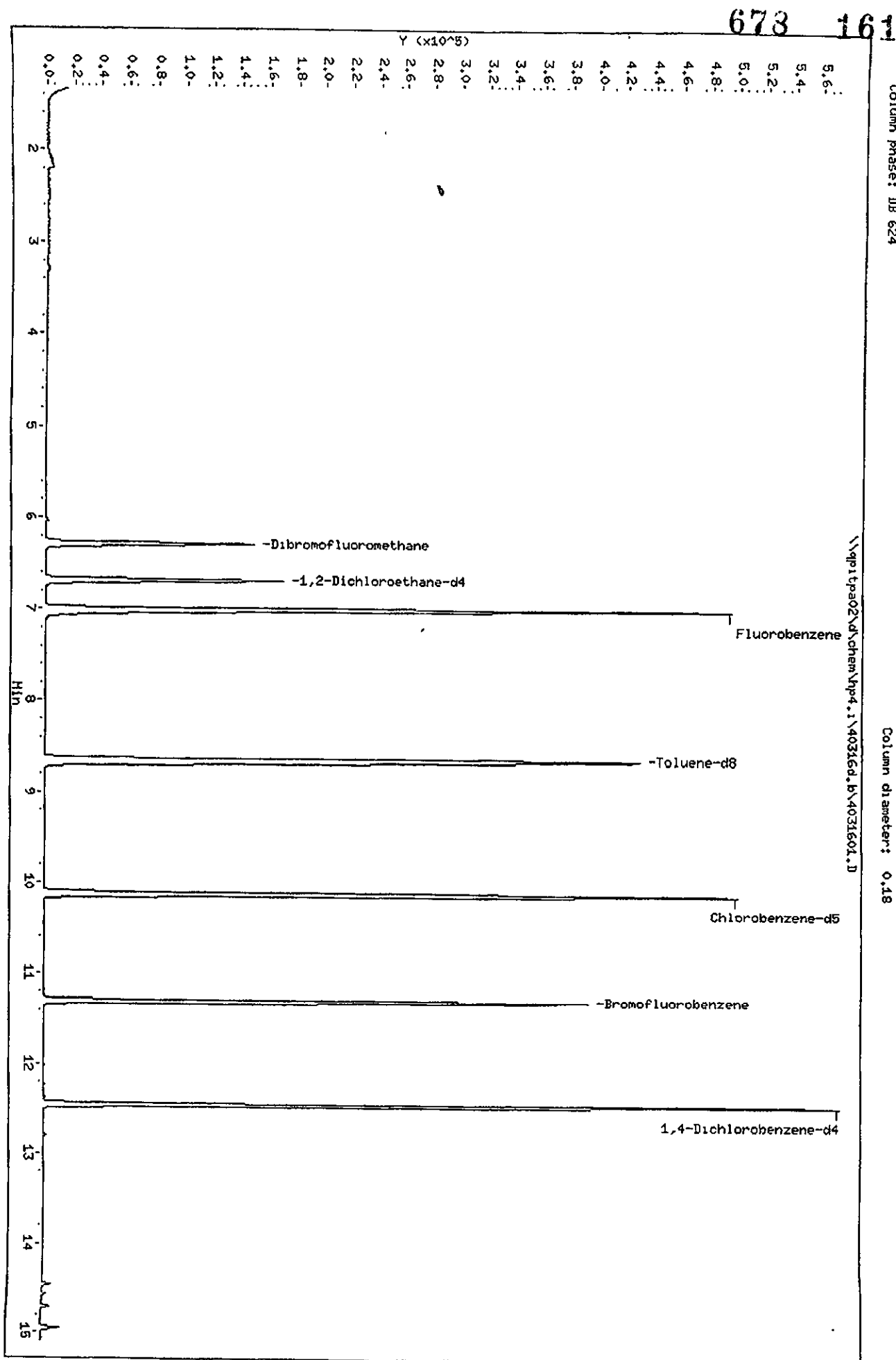
Column phase: DB 624

Instrument: hp4.1

Operator: 16328

Column diameter: 0.18

Page 6



673 163

Data File: \\qpitpa02\d\chem\hp4.i\40316d.b\4031601.D
 Report Date: 16-Mar-2001 08:51

Page 1

STL-Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp4.i\40316d.b\4031601.D
 Lab Smp Id: vstd50
 Inj Date : 16-MAR-2001 08:11
 Operator : 16328
 Smp Info : vblk 5ml
 Misc Info : vstd50 ,40316d.b,8260bh2o.M,
 Comment :
 Method : \\qpitpa02\d\chem\hp4.i\40316d.b\8260bh2o.m
 Meth Date : 16-Mar-2001 08:47 dudeckk Quant Type: ISTD
 Cal Date : 01-MAR-2001 11:27 Cal File: 2B40301.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC077

Inst ID: hp4.i

K's
3/16/01

Compound Sublist: 6-br.sub

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	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.006	7.006	(1.000)	614238	250.000		
* 69 Chlorobenzene-d5	119	10.127	10.127	(1.000)	123483	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.457	12.457	(1.000)	182206	250.000		
\$ 39 Dibromofluoromethane	113	6.288	6.288	(0.898)	116843	252.755	50.55	
\$ 43 1,2-Dichloroethane-d4	65	6.690	6.690	(0.955)	127335	234.779	46.96	
\$ 59 Toluene-d8	98	8.655	8.655	(0.855)	541870	233.308	46.66	
\$ 80 Bromofluorobenzene	95	11.307	11.307	(1.117)	183589	228.904	45.78	
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			
12 1,1-Dichloroethene	96				Compound Not Detected.			
13 Acetone	43				Compound Not Detected			
15 Carbon Disulfide	76				Compound Not Detected.			
18 Methylene Chloride	84				Compound Not Detected			

673 163

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(UG/L)
*****	****	ns	*****	*****	*****	*****	*****
19 trans-1,2-Dichloroethene	96		Compound	Not	Detected.		
20 Methyl tert-butyl ether	73		Compound	Not	Detected.		
24 1,1-Dichloroethane	63		Compound	Not	Detected.		
28 cis-1,2-dichloroethene	96		Compound	Not	Detected.		
M 29 1,2-Dichloroethene (total)	96		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.		
41 Carbon Tetrachloride	117		Compound	Not	Detected.		
42 Benzene	78		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.		
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.		
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.		
70 Chlorobenzene	112		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.		
83 1,1,2,2-Tetrachloroethane	83		Compound	Not	Detected.		
91 1,3-Dichlorobenzene	146		Compound	Not	Detected.		
93 1,4-Dichlorobenzene	146		Compound	Not	Detected.		
95 1,2-Dichlorobenzene	146		Compound	Not	Detected.		

673 164

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C160000 223

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/14/01

Work Order: DXHFG1AC

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075223

Client Sample Id: CHECK SAMPLE

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
67-64-1	Acetone	22.9	a
71-43-2	Benzene	56.2	
75-27-4	Bromodichloromethane	58.7	
75-25-2	Bromoform	62.5	
74-83-9	Bromomethane	57.6	
78-93-3	2-Butanone	40.1	
75-15-0	Carbon disulfide	47.4	
56-23-5	Carbon tetrachloride	62.8	
108-90-7	Chlorobenzene	57.1	
124-48-1	Dibromochloromethane	62.2	
75-00-3	Chloroethane	60.3	
67-66-3	Chloroform	54.9	
74-87-3	Chloromethane	58.0	
75-34-3	1,1-Dichloroethane	53.9	
107-06-2	1,2-Dichloroethane	54.1	
75-35-4	1,1-Dichloroethene	46.2	
540-59-0	1,2-Dichloroethene (total)	114	
78-87-5	1,2-Dichloropropane	55.1	
10061-01-5	cis-1,3-Dichloropropene	52.6	
10061-02-6	trans-1,3-Dichloropropene	57.4	a
100-41-4	Ethylbenzene	58.5	
591-78-6	2-Hexanone	45.7	
75-09-2	Methylene chloride	63.9	
108-10-1	4-Methyl-2-pentanone	50.2	
100-42-5	Styrene	55.2	
79-34-5	1,1,2,2-Tetrachloroethane	58.8	
127-18-4	Tetrachloroethene	58.0	
108-88-3	Toluene	54.9	

FORM I

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

678 165

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C160000 223

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 03/14/01

Work Order: DXHFG1AC

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075223

Client Sample Id: CHECK SAMPLE

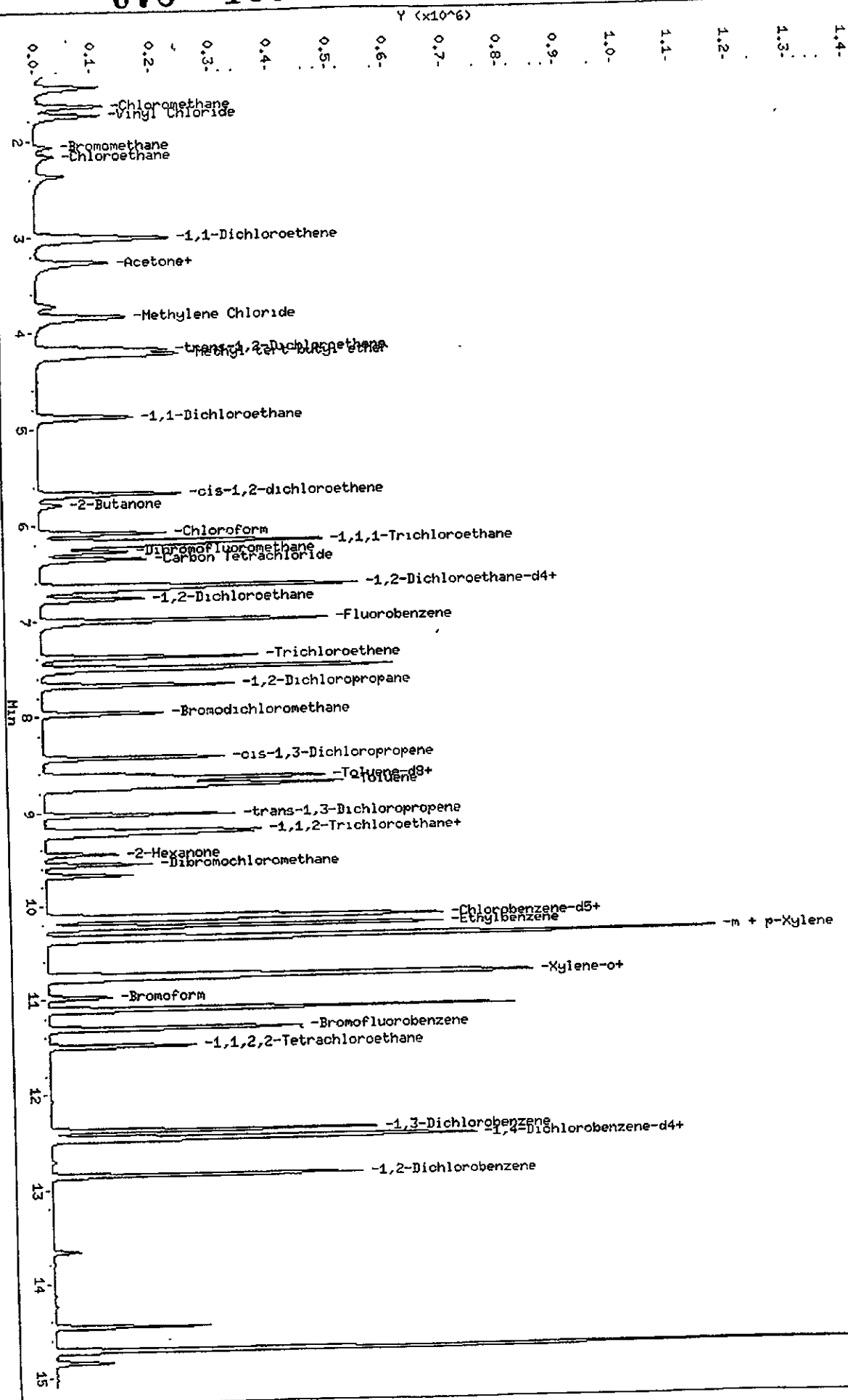
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
71-55-6	1,1,1-Trichloroethane	57.5	
79-00-5	1,1,2-Trichloroethane	54.9	
79-01-6	Trichloroethene	58.4	
75-01-4	Vinyl chloride	57.1	
1330-20-7	Xylenes (total)	175	

673 166

Data File: \NPI\PA02\chem\hp4.1\40316d.b\4031603.D
 Date: 16-MAR-2001 09:04
 Client ID:
 Sample Info: blk ms 5ml
 Volume Injected (ul): 5.0
 Column phase: DB 624

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

\NPI\PA02\chem\hp4.1\40316d.b\4031603.D



673 167

STL-Pittsburgh

VOLATILE REPORT SW-846 Method
Data file : \\QPITPA02\D\chem\hp4.i\40316d.b\4031603.D
Lab Smp Id:
Inj Date : 16-MAR-2001 09:01
Operator : 16328 Inst ID: hp4.i
Smp Info : blk ms 5ml
Misc Info : ,40316d.b,8260bh2o.M,
Comment :
Method : \\QPITPA02\D\chem\hp4.i\40316d.b\8260bh2o.m
Meth Date : 16-Mar-2001 09:04 dudeckk Quant Type: ISTD
Cal Date : 01-MAR-2001 11:27 Cal File: 2B40301.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 6-br.sub
Target Version: 4.04
Processing Host: QPITPA02

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				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	7.001	7.006	(1.000)	588755	250.000	
* 69 Chlorobenzene-d5	119	10.122	10.127	(1.000)	125529	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.458	12.457	(1.000)	188078	290.000	
\$ 39 Dibromofluoromethane	113	6.289	6.288	(0.898)	114674	258.801	51.76
\$ 43 1,2-Dichloroethane-d4	65	6.685	6.690	(0.955)	122846	236.307	47.26
\$ 59 Toluene-d8	98	8.650	8.655	(0.855)	578589	245.056	49.01
\$ 80 Bromofluorobenzene	95	11.308	11.307	(1.117)	204867	251.272	50.25
2 Chloromethane	50	1.648	1.647	(0.235)	222855	289.749	57.95
3 Vinyl Chloride	62	1.745	1.744	(0.249)	207005	285.316	57.06
4 Bromomethane	94	2.061	2.066	(0.294)	24057	287.909	57.58
5 Chloroethane	64	2.159	2.158	(0.308)	36514	301.497	60.30
12 1,1-Dichloroethene	96	3.029	3.034	(0.433)	96896	230.837	46.17
13 Acetone	43	3.315	3.314	(0.473)	32831	114.665	22.93
15 Carbon Disulfide	76	3.272	3.277	(0.467)	319994	237.199	47.44
18 Methylene Chloride	84	3.838	3.843	(0.548)	157096	319.501	63.90

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(UG/L)
-----	----	--	-----	-----	-----	-----	-----
19 trans-1,2-Dichloroethene	96	4.178	4.184	(0.597)	161501	288.371	57.67
20 Methyl tert-butyl ether	73	4.233	4.232	(0.605)	364321	268.687	53.74
24 1,1-Dichloroethane	63	4.884	4.889	(0.698)	249176	269.628	53.92
28 cis-1,2-dichloroethene	96	5.681	5.686	(0.811)	159660	280.661	56.13
M 29 1,2-Dichloroethene (total)	96				321162	568.971	113.8
31 2-Butanone	43	5.791	5.790	(0.827)	66730	200.601	40.12
37 Chloroform	83	6.095	6.094	(0.871)	209199	274.596	54.92
38 1,1,1-Trichloroethane	97	6.222	6.221	(0.889)	174453	287.709	57.54
41 Carbon Tetrachloride	117	6.362	6.367	(0.909)	137042	313.756	62.75
42 Benzene	78	6.648	6.647	(0.950)	622711	281.128	56.22
45 1,2-Dichloroethane	62	6.776	6.775	(0.968)	150397	270.500	54.10
47 Trichloroethene	130	7.384	7.383	(1.055)	145394	291.999	58.40
49 1,2-Dichloropropane	63	7.676	7.675	(1.096)	154076	275.615	55.12
53 Bromodichloromethane	83	7.968	7.967	(1.138)	151361	293.335	58.67
57 cis-1,3-Dichloropropene	75	8.437	8.436	(1.205)	196420	263.198	52.64
58 4-Methyl-2-Pentanone	43	8.613	8.612	(0.851)	136303	251.275	50.25
60 Toluene	91	8.717	8.722	(0.861)	674049	274.300	54.86
61 trans-1,3-Dichloropropene	75	9.027	9.026	(0.892)	186240	286.933	57.39
64 1,1,2-Trichloroethane	97	9.209	9.208	(0.910)	129509	274.615	54.92
65 Tetrachloroethene	164	9.240	9.245	(0.913)	113739	290.256	58.05
66 2-Hexanone	43	9.453	9.452	(0.934)	91616	228.451	45.69
67 Dibromochloromethane	129	9.562	9.561	(0.945)	110966	310.772	62.15
70 Chlorobenzene	112	10.152	10.151	(1.003)	411236	285.714	57.14
72 Ethylbenzene	106	10.238	10.237	(1.011)	238338	292.673	58.53
73 m + p-Xylene	106	10.359	10.358	(1.023)	560916	566.551	113.3
74 Xylene-o	106	10.755	10.760	(1.063)	270618	284.803	56.96
M 75 Xylenes (total)	106				831534	875.120	175.0
76 Styrene	104	10.785	10.784	(1.066)	443090	276.004	55.20
77 Bromoform	173	10.980	10.979	(1.085)	56897	312.533	62.51
83 1,1,2,2-Tetrachloroethane	83	11.485	11.484	(0.922)	151412	293.754	58.75
91 1,3-Dichlorobenzene	146	12.385	12.384	(0.994)	291995	282.774	56.55
93 1,4-Dichlorobenzene	146	12.482	12.481	(1.002)	297787	277.522	55.50
95 1,2-Dichlorobenzene	146	12.853	12.852	(1.032)	260880	279.199	55.84

GC/MS VOLATILE
MISCELLANEOUS

Method

S2600

Inst ID

HP-4

Analyst

KLD

Reviewed by

Standard

Date

Standard

192-199-4 BFB

Standard

192-199-3 SW

Standard

192-199-2 DUT

Standard

192-200-1 VOA

Date

File ID

Lot No / Sample No.

Vol/Wt

pH

Port #

Comments

1/23/01

1 BFB

DFB

1.0

2 1A40123

VSTDS

5.0

3 1B40123

VSTDS

5.0

4 1C40123

VSTDS

5.0

5 1D40123

VSTDS

5.0

6 1E40123

VSTDS

5.0

7 1F40123

VSTDS

5.0

8 1G40123

VSTDS

5.0

9 2A40123

VSTDS

5.0

10 4012301

CCV

5.0

11 4012302

VBLK

5.0

12 4012303

IDC

5.0

13 4012304

IDC

5.0

14 4012305

IDC

5.0

15 4012306

IDC

5.0

16

17

18

19

20

21

22

Andrew S. L. unbalanced

REQUESTED BY: GORDONK

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

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
11C CLP1	DXGMH-1-AA		320630	399411	I-15-QK	C1C150304	001		WATER	0	13 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Cell	Kath Dell	3/14/01 0710
Kath Dell	NW	3/14/01 1370

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

GC/MS SEMIVOLATILE DATA

678 174

GC/MS SEMIVOLATILE
QC SUMMARY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C150304

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/24-B/1073/IDW/003	3.3*	298*	82	14	0.0*	0.0*	04
02	METHOD BLK. DXLAE1AA	75	84	82	86	75	71	00
03	LCS DXLAE1AC	61	72	69	78	61	60	00
04	LCSD DXLAE1AD	53	62	62	68	53	51	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

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C190000

WO #: DXLAE1AC

BATCH: 1078245

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
Phenol	75.0	46.3	62	10 - 131	
2-Chlorophenol	75.0	51.1	68	19 - 124	
1,4-Dichlorobenzene	50.0	34.9	70	28 - 110	
N-Nitrosodi-n-propylamine	50.0	31.7	63	30 - 115	
1,2,4-Trichlorobenzene	50.0	35.7	71	31 - 110	
4-Chloro-3-methylphenol	75.0	48.0	64	29 - 124	
Acenaphthene	50.0	35.3	71	39 - 118	
4-Nitrophenol	75.0	39.4	53	19 - 144	
2,4-Dinitrotoluene	50.0	30.0	60	47 - 131	
Pentachlorophenol	75.0	41.8	56	10 - 140	
Pyrene	50.0	38.3	77	46 - 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C190000

WO #: DXLAE1AD

BATCH: 1078245

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Phenol	75.0	40.8	54	10 - 131	
2-Chlorophenol	75.0	45.2	60	19 - 124	
4-Chloro-3-methylphenol	75.0	41.5	55	29 - 124	
Acenaphthene	50.0	31.3	63	39 - 118	
4-Nitrophenol	75.0	32.1	43	19 - 144	
1,4-Dichlorobenzene	50.0	31.6	63	28 - 110	
N-Nitrosodi-n-propylamine	50.0	28.6	57	30 - 115	
1,2,4-Trichlorobenzene	50.0	32.2	64	31 - 110	
2,4-Dinitrotoluene	50.0	25.8	52	47 - 131	
Pentachlorophenol	75.0	33.0	44	10 - 140	
Pyrene	50.0	34.1	68	46 - 130	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

678 178

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXLAE1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIIT

SDG Number:

Lab File ID: F0321001.

Lot Number: C1C150304

Date Analyzed: 03/21/01

Time Analyzed: 12:35

Matrix: WATER

Date Extracted: 03/19/01

GC Column: HP5MS ID: .25

Extraction Method: 3520C

Instrument ID: 722

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/24-B/1073/IDW/003	DXGMH1AC	F0321004.	03/21/01	14:13
02	CHECK SAMPLE	DXLAE1AC C	F0321002.	03/21/01	13:08
03	DUPLICATE CHECK	DXLAE1AD L	F0321003.	03/21/01	13:40
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

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

678 179

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: _

Lab File ID: F0226DF2

DFTPP Injection Date: 02/26/01

Instrument ID: 722

DFTPP Injection Time: 1046

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	40.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	26.1
365	Greater than 1.0% of mass 198	3.8
441	Present, but less than mass 443	10.6
442	40.0 - 100.0% of mass 198	65.6
443	17.0 - 23.0% of mass 442	12.6 (19.2)2

1-Value is % of mass 69

2-Value is % of mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	F02260C2	02/26/01	1104
02	SSTD020	SSTD020	F02260C3	02/26/01	1147
03	SSTD080	SSTD080	F02260C4	02/26/01	1221
04	SSTD120	SSTD120	F02260C5	02/26/01	1254
05	SSTD160	SSTD160	F02260C6	02/26/01	1328
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

678 180

FORM 5

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab File ID: F0321DF1

DFTPP Injection Date: 03/21/01

Instrument ID: 722

DFTPP Injection Time: 1039

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	41.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	26.7
365	Greater than 1.0% of mass 198	3.76
441	Present, but less than mass 443	10.8
442	40.0 - 100.0% of mass 198	64.0
443	17.0 - 23.0% of mass 442	12.2 (19.1)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	F03210C2	03/21/01	1203
02	INTRA-LAB BL	DXLAE1AA	F0321001	03/21/01	1235
03	INTRA-LAB CH	DXLAE1AC	F0321002	03/21/01	1308
04	INTRA-LAB CH	DXLAE1AD	F0321003	03/21/01	1340
05	DF/24-B/1073	DXGMH1AC	F0321004	03/21/01	1413
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

678 181

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab File ID (Standard): F03210C2

Date Analyzed: 03/21/01

Instrument ID: 722

Time Analyzed: 1203

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	202244	5.06	742404	6.60	374869	9.63
UPPER LIMIT	404488	5.56	1484808	7.10	749738	10.13
LOWER LIMIT	101122	4.56	371202	6.10	187435	9.13
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	178424	5.06	692132	6.59	391212	9.62
02 INTRA-LAB CH	189691	5.07	738170	6.60	408379	9.63
03 INTRA-LAB CH	227072	5.07	891814	6.60	503558	9.63
04 DF/24-B/1073	169228	5.07	638586	6.60	1165*	10.13*
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 **678 182**
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: *C16150304*

Lab File ID (Standard): F03210C2

Date Analyzed: 03/21/01

Instrument ID: 722

Time Analyzed: 1203

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	613392	12.93	655707	19.57	587608	22.92
UPPER LIMIT	1226784	13.43	1311414	20.07	1175216	23.42
LOWER LIMIT	306696	12.43	327854	19.07	293804	22.42
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	676950	12.93	679037	19.55	595507	22.92
02 INTRA-LAB CH	688205	12.93	647371	19.56	554687	22.92
03 INTRA-LAB CH	820453	12.93	736713	19.56	628362	22.92
04 DF/24-B/1073	612553	12.94	604055	19.58		
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.

**GC/MS SEMIVOLATILE
SAMPLE DATA**

678 184

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1AC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

Client Sample Id: DF/24-B/1073/IDW/003

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	8.4	J
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

FORM I

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

Matrix: (soil/water) WATER Lab Sample ID: C1C150304 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1AC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

Client Sample Id: DF/24-B/1073/IDW/003

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

678 186

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1AC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

Client Sample Id: DF/24-B/1073/IDW/003

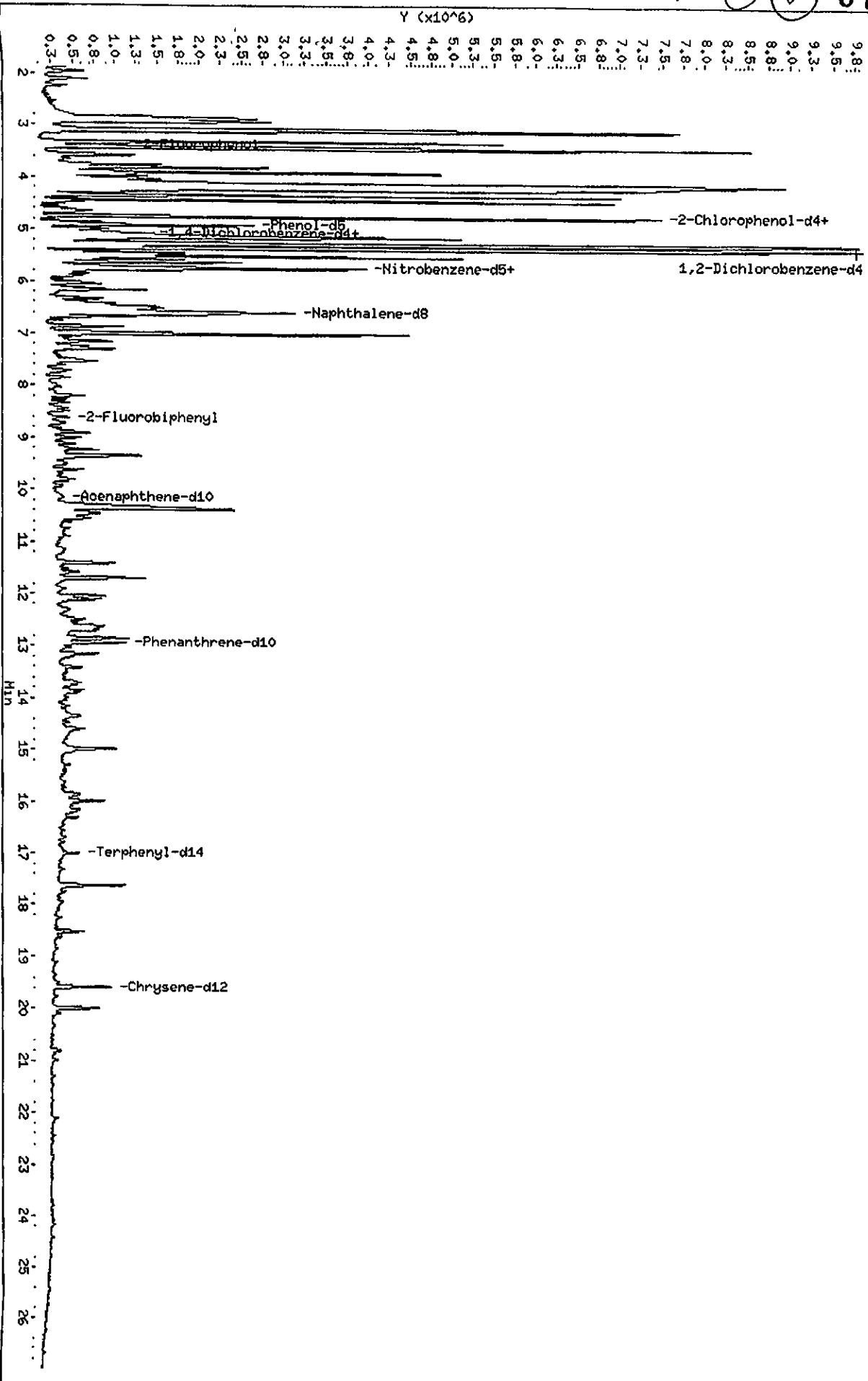
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
86-30-6	N-Nitrosodiphenylamine	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
108-95-2	Phenol	10	U
129-00-0	Pyrene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
95-95-4	2,4,5-Trichlorophenol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

FORM I

Data File: \\NPITPA02\chem\722.i\032101.b\F0321004.D
Date: 21-MAR-2001 14:13
Client ID: DF/24-B/1073/IDM/00
Sample Info: C1C150304-001 3/19/01 H2O (1078245)
Volume Injected (uL): 2.0
Column phase: Hp5-HS

Instrument: 722.i
Operator: 007062
Column diameter: 0.25

\\NPITPA02\chem\722.i\032101.b\F0321004.D



STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\032101.b\F0321004.D
 Lab Smp Id: DXGMH1AC Client Smp ID: DF/24-B/1073/IDW/00
 Inj Date : 21-MAR-2001 14:13
 Operator : 007062 Inst ID: 722.i
 Smp Info : C1C150304-001 3/19/01 H2O (1078245)
 Misc Info : dxgmh1ac, 032101.b, 8270b.m, 2-root.sub
 Comment :
 Method : \\QPITPA02\D\chem\722.i\032101.b\8270b.m
 Meth Date : 21-Mar-2001 12:38 BungardF Quant Type: ISTD
 Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC083

3/21/01
Compound Sublist: 2-root.sub

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

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)
gpc	1.000	gpc correction factor

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4		152	5.069	5.060	(1.000)	169228	40.0000	
* 2 Naphthalene-d8		136	6.603	6.598	(1.000)	638586	40.0000	
* 3 Acenaphthene-d10		164	10.128	9.627	(1.000)	1165	40.0000	(Q)
* 4 Phenanthrene-d10		188	12.938	12.934	(1.000)	612553	40.0000	
* 5 Chrysene-d12		240	19.579	19.569	(1.000)	604055	40.0000	
* 6 Perylene-d12		264	Compound Not Detected.					
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.					

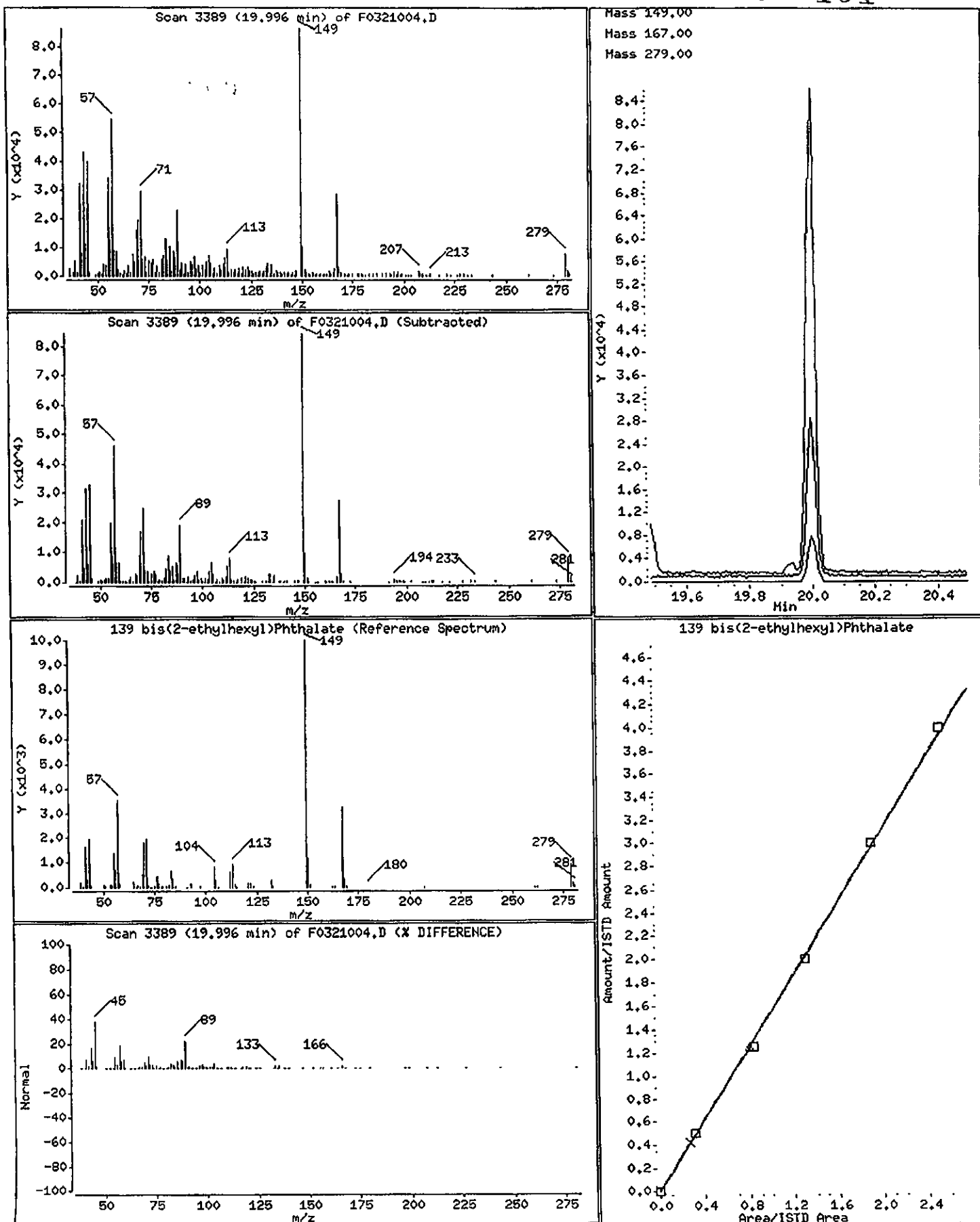
678 189

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(NG)	(ug/L)
*****	=====	=====	==	=====	=====	=====	=====	=====
26 1,3-Dichlorobenzene	146			Compound	Not	Detected.		
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.		
205 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	232			Compound	Not	Detected.		
88 2,3,4,6-Tetrachlorophenol	232			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	169			Compound	Not	Detected		
100 1,2-Diphenylhydrazine	77			Compound	Not	Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
106 4-Bromophenyl-phenylether	248				Compound Not Detected		
107 Hexachlorobenzene	283				Compound Not Detected		
111 Pentachlorophenol	266	12.698	12.678	(0.981)	4470	2.11741	1.064(a) <i>ML</i>
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	19.995	19.986	(1.021)	162948	16.8257	8.41(a)
140 Di-n-octylphthalate	149	21.465	21.455	(1.000)	13430		1.2 < <i>ML</i>
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	5.732	5.717	(0.868)	498575	81 6146	40.8
\$ 155 2-Fluorobiphenyl	172	8 339	8.335	(0.823)	101693	2987 69	1490 (ARH)
\$ 156 Terphenyl-d14	244	17.009	17.000	(0.869)	161011	13 6630	6.83(a)
\$ 157 Phenol-d5	99	4.920	4.761	(0.970)	36572	5.02649	2.51(aQR)
\$ 158 2-Fluorophenol	112				Compound Not Detected.		
\$ 159 2,4,6-Tribromophenol	329				Compound Not Detected.		
\$ 186 2-Chlorophenol-d4	132				Compound Not Detected		
\$ 187 1,2-Dichlorobenzene-d4	152	5.289	5.268	(1.043)	108205	30.6989	15.3(Q)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- H - Operator selected an alternate compound hit.



678 192

**GC/MS SEMIVOLATILE
CALIBRATION DATA**

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

678 193

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: _

Instrument ID: 722

Calibration Date(s): 02/26/01

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

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:		RRF1	=F02260C3.D	RRF2	=F02260C2.D			
RRF3 =F02260C4.D		RRF4	=F02260C5.D	RRF5	=F02260C6.D			
COMPOUND		RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
Phenol	*	1.852	1.873	1.714	1.633	1.598	1.734	7.2*
bis(2-Chloroethyl) ether		1.412	1.435	1.333	1.282	1.263	1.345	5.7
2-Chlorophenol		1.330	1.349	1.257	1.224	1.212	1.274	4.9
1,3-Dichlorobenzene		1.507	1.522	1.409	1.358	1.345	1.428	5.8
1,4-Dichlorobenzene	*	1.527	1.542	1.440	1.386	1.371	1.453	5.4*
1,2-Dichlorobenzene		1.412	1.425	1.328	1.287	1.270	1.344	5.3
2-Methylphenol		1.240	1.268	1.169	1.139	1.122	1.188	5.4
2,2'-oxybis(1-Chloropropane		2.516	2.568	2.355	2.234	2.156	2.366	7.5
4-Methylphenol		1.310	1.357	1.240	1.203	1.199	1.262	5.5
Hexachloroethane		0.590	0.599	0.568	0.556	0.550	0.573	3.7
Nitrobenzene		0.416	0.430	0.400	0.390	0.385	0.404	4.5
Isophorone		0.660	0.686	0.637	0.622	0.616	0.644	4.5
2-Nitrophenol	*	0.180	0.189	0.180	0.180	0.178	0.181	2.4*
2,4-Dimethylphenol		0.350	0.363	0.336	0.328	0.327	0.341	4.5
bis(2-Chloroethoxy)methane		0.419	0.425	0.395	0.385	0.379	0.401	5.1
N-Nitroso-di-n-propylamine	#	1.076	1.138	1.067	1.063	1.055	1.080	3.1#
2,4-Dichlorophenol	*	0.270	0.279	0.263	0.257	0.254	0.265	3.9*
1,2,4-Trichlorobenzene		0.307	0.310	0.293	0.288	0.287	0.297	3.7
Naphthalene		1.015	1.018	0.938	0.889	0.873	0.947	7.2
4-Chloroaniline		0.396	0.406	0.378	0.369	0.358	0.381	5.2
Hexachlorobutadiene	*	0.195	0.199	0.188	0.188	0.190	0.192	2.5*
4-Chloro-3-Methylphenol	*	0.299	0.319	0.302	0.302	0.298	0.304	2.8*
2-Methylnaphthalene		0.664	0.674	0.632	0.618	0.607	0.639	4.5
Hexachlorocyclopentadiene	#	0.316	0.370	0.362	0.368	0.380	0.359	6.9#
2,4,6-Trichlorophenol	*	0.345	0.361	0.348	0.343	0.346	0.349	2.0*
2,4,5-Trichlorophenol		0.369	0.380	0.376	0.361	0.370	0.371	1.9
2-Chloronaphthalene		1.078	1.087	1.019	0.992	1.003	1.036	4.2
2-Nitroaniline		0.390	0.424	0.405	0.408	0.411	0.408	3.0
Dimethylphthalate		1.261	1.292	1.222	1.191	1.198	1.233	3.5
Acenaphthylene		1.672	1.686	1.596	1.520	1.513	1.597	5.1
2,6-Dinitrotoluene		0.274	0.292	0.283	0.283	0.286	0.284	2.3
3-Nitroaniline		0.313	0.338	0.322	0.322	0.324	0.324	2.8
Acenaphthene	*	1.091	1.110	1.046	1.010	1.010	1.053	4.4*
2,4-Dinitrophenol	#	0.081	0.127	0.155	0.180	0.191	0.147	30.2#
4-Nitrophenol	#	0.183	0.206	0.200	0.204	0.208	0.200	4.9#
Dibenzofuran		1.584	1.602	1.504	1.451	1.446	1.517	4.8
2,4-Dinitrotoluene		0.372	0.400	0.394	0.395	0.400	0.392	3.0

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: _

Instrument ID: 722

Calibration Date(s): 02/26/01

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:	RRF1 =F02260C3.D	RRF2 =F02260C2.D					
RRF3 =F02260C4.D	RRF4 =F02260C5.D	RRF5 =F02260C6.D					
COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	RRF	% RSD
Diethylphthalate	1.270	1.319	1.262	1.235	1.225	1.262	2.9
4-Chlorophenyl-phenylether	0.634	0.646	0.615	0.605	0.608	0.622	2.9
Fluorene	1.313	1.314	1.254	1.204	1.196	1.256	4.5
4-Nitroaniline	0.322	0.342	0.333	0.336	0.336	0.334	2.2
4,6-Dinitro-2-methylphenol	0.083	0.106	0.116	0.126	0.129	0.112	16.6
N-Nitrosodiphenylamine (1)*	0.508	0.541	0.537	0.435	0.446	0.493	10.1*
4-Bromophenyl-phenylether	0.195	0.198	0.191	0.189	0.188	0.192	2.2
Hexachlorobenzene	0.204	0.206	0.198	0.194	0.194	0.199	2.8
Pentachlorophenol	0.127	0.141	0.138	0.141	0.142	0.138	4.5#
Phenanthrene	1.022	1.022	0.971	0.927	0.915	0.971	5.2
Anthracene	1.040	1.046	0.990	0.952	0.935	0.993	5.0
Carbazole	0.955	0.972	0.920	0.893	0.884	0.925	4.1
Di-n-Butylphthalate	1.114	1.178	1.116	1.082	1.067	1.111	3.8
Fluoranthene	1.107	1.131	1.088	1.050	1.046	1.084	3.3*
Pyrene	1.018	1.035	0.988	0.958	0.912	0.982	5.0
Butylbenzylphthalate	0.449	0.475	0.459	0.449	0.451	0.457	2.4
3,3'-Dichlorobenzidine	0.396	0.420	0.394	0.401	0.397	0.402	2.6
Benzo(a)Anthracene	0.994	1.022	0.974	0.947	0.942	0.976	3.4
Chrysene	0.956	0.966	0.918	0.882	0.880	0.920	4.4
bis(2-ethylhexyl) Phthalate	0.618	0.672	0.651	0.636	0.630	0.641	3.2
Di-n-octylphthalate	1.064	1.042	1.045	1.002	0.983	1.027	3.3*
Benzo(b)fluoranthene	1.101	0.994	0.982	0.988	1.139	1.041	7.1
Benzo(k)fluoranthene	1.140	1.133	1.116	1.065	0.891	1.069	9.7
Benzo(a)pyrene	1.045	1.055	1.006	0.974	0.964	1.009	4.0*
Indeno(1,2,3-cd)pyrene	1.612	1.609	1.536	1.502	1.497	1.551	3.6
Dibenz(a,h)anthracene	1.317	1.324	1.265	1.233	1.228	1.273	3.5
Benzo(g,h,i)perylene	1.457	1.440	1.379	1.332	1.322	1.386	4.4
Pyridine	1.274	1.346	1.241	1.203	1.206	1.254	4.7
N-Nitrosodimethylamine	0.792	0.829	0.768	0.752	0.748	0.778	4.3
Aniline	2.026	2.134	1.860	1.757	1.704	1.896	9.5
Benzyl Alcohol	0.985	1.078	0.999	0.979	0.970	1.002	4.4
Benzoic Acid	0.067	0.170	0.173	0.193	0.200	0.161	33.6
2,3,4,6-Tetrachlorophenol	0.350	0.386	0.362	0.364	0.372	0.367	3.6
2,3,5,6-Tetrachlorophenol	0.355	0.396	0.379	0.384	0.389	0.381	4.0
1,2-Diphenylhydrazine	0.774	0.798	0.741	0.719	0.712	0.749	4.9

(1) Cannot be separated from Diphenylamine

Contract:

Lab Code:

Case No. :

SAS No. :

SDG No. :

Instrument ID: 722

Calibration Date(s): 02/26/01

Min $\overline{RRF}$ for SPCC(8) = 0.050

Max %RSD for CCC(*) = 30.0%

[illegible]

INITIAL CALIBRATION REPORT

Instrument ID: 722.i
Lab File ID: F02260C6.D
Analysis Type: NONE

Injection Date: 26-FEB-2001 13:28
Lab Sample ID: sstd160
Method File: \\QPITPA02\D\chem\722.i\022601.b\

COMPOUND	%RSD
=====	=====
Benzo(b)fluoranthene	7.1
7,12-dimethylbenz(a)anthracen	3.0
Benzo(k)fluoranthene	9.7
Benzo(a)pyrene	4.0
Indeno(1,2,3-cd)pyrene	3.6
Dibenz(a,h)anthracene	3.5
Benzo(g,h,i)perylene	4.4

The average of all %RSD's in the initial calibration is 5.5

INITIAL CALIBRATION REPORT

Instrument ID: 722.i
Lab File ID: F02260C6.D
Analysis Type: NONE

Injection Date: 26-FEB-2001 13:28
Lab Sample ID: sstd160
Method File: \\QPITPA02\D\chem\722.i\022601.b\

COMPOUND	%RSD
Pyridine	4.7
N-Nitrosodimethylamine	4.3
Methyl methanesulfonate	10.1
2-Fluorophenol	4.6
Phenol-d5	5.3
Phenol	7.2
Aniline	9.5
bis(2-Chloroethyl) ether	5.7
2-Chlorophenol-d4	4.8
2-Chlorophenol	4.9
1,3-Dichlorobenzene	5.8
1,4-Dichlorobenzene	5.4
Benzyl Alcohol	4.4
1,2-Dichlorobenzene-d4	5.0
1,2-Dichlorobenzene	5.3
2-Methylphenol	5.4
2,2'-oxybis(1-Chloropropane)	7.5
4-Methylphenol	5.5
N-Nitroso-di-n-propylamine	3.1
Hexachloroethane	3.7
Nitrobenzene-d5	3.4
Nitrobenzene	4.5
Isophorone	4.5
2-Nitrophenol	2.4
2,4-Dimethylphenol	4.5
bis(2-Chloroethoxy)methane	5.1
Benzoic Acid	33.6
2,4-Dichlorophenol	3.9
1,2,4-Trichlorobenzene	3.7
Naphthalene	7.2
4-Chloroaniline	5.2
Hexachlorobutadiene	2.5
4-Chloro-3-Methylphenol	2.8
2-Methylnaphthalene	4.5
1-Methylnaphthalene	5.0
Hexachlorocyclopentadiene	6.9
2,4,6-Trichlorophenol	2.0
2,4,5-Trichlorophenol	1.9
2-Fluorobiphenyl	5.0

INITIAL CALIBRATION REPORT

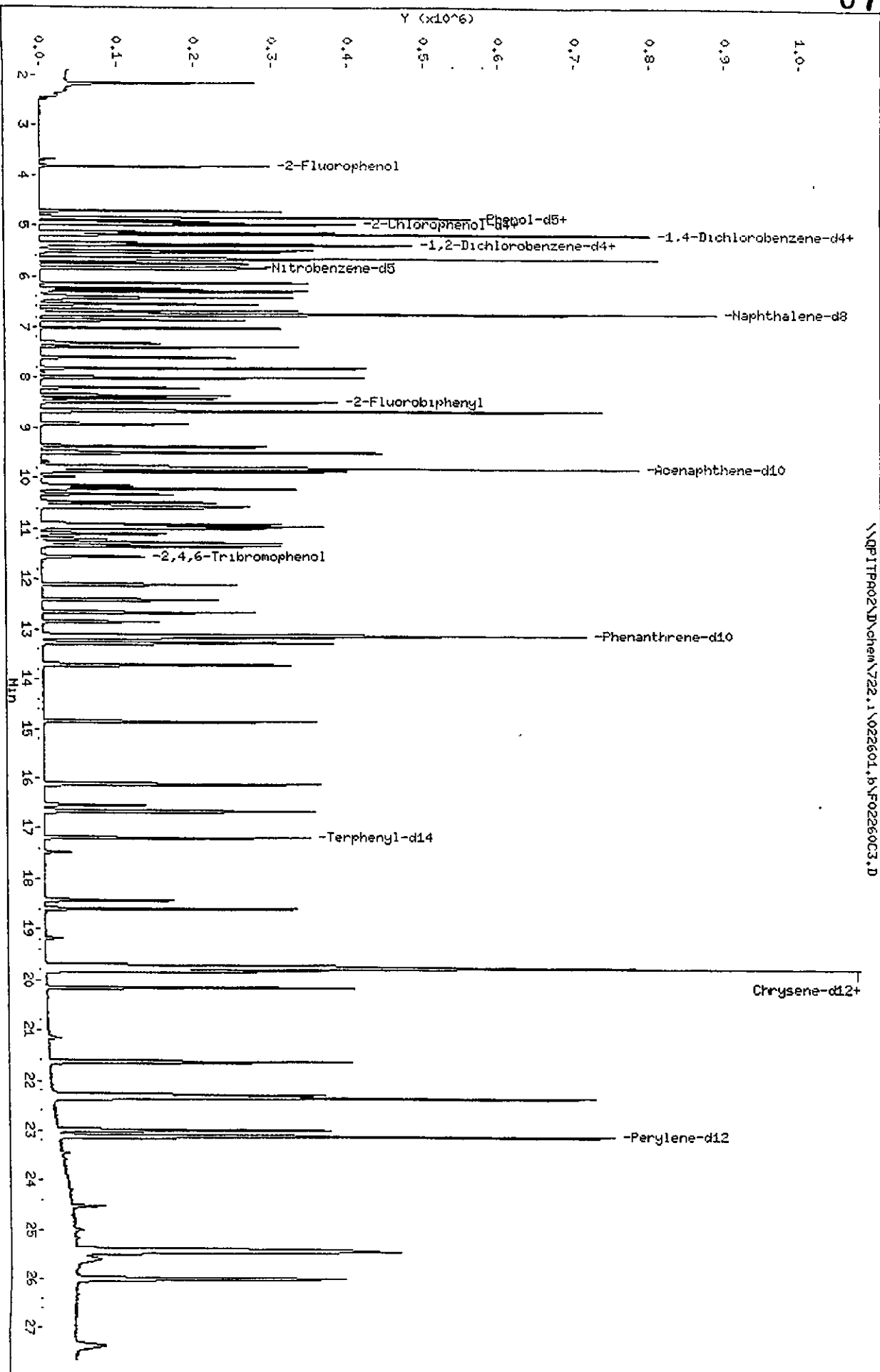
Instrument ID: 722.i
Lab File ID: F02260C6.D
Analysis Type: NONE

Injection Date: 26-FEB-2001 13:28
Lab Sample ID: sstd160
Method File: \\QPITPA02\D\chem\722.i\022601.b\

COMPOUND	%RSD
2-Chloronaphthalene	4.2
2-Nitroaniline	3.0
Dimethylphthalate	3.5
Acenaphthylene	5.1
2,6-Dinitrotoluene	2.3
3-Nitroaniline	2.8
Acenaphthene	4.4
2,4-Dinitrophenol	30.2
4-Nitrophenol	4.9
Dibenzofuran	4.8
2,4-Dinitrotoluene	3.0
2,3,5,6-Tetrachlorophenol	4.0
2-Naphthylamine	16.0
2,3,4,6-Tetrachlorophenol	3.6
Diethylphthalate	2.9
Fluorene	4.5
4-Chlorophenyl-phenylether	2.9
4-Nitroaniline	2.2
4,6-Dinitro-2-methylphenol	16.6
N-Nitrosodiphenylamine	10.1
1,2-Diphenylhydrazine	4.9
2,4,6-Tribromophenol	3.2
4-Bromophenyl-phenylether	2.2
Hexachlorobenzene	2.8
Pentachlorophenol	4.5
Phenanthrene	5.2
Anthracene	5.0
Carbazole	4.1
Di-n-Butylphthalate	3.8
Fluoranthene	3.3
Benzidine	13.1
Pyrene	5.0
Terphenyl-d14	3.1
Butylbenzylphthalate	2.4
Benzo(a)Anthracene	3.4
3,3'-Dichlorobenzidine	2.6
Chrysene	4.4
bis(2-ethylhexyl)Phthalate	3.2
Di-n-octylphthalate	3.3

Data File: \\NPITPA02\Nchem\722.1\022601.b\F02260C3.D
Date: 26-FEB-2001 11:47
Client ID:
Sample Info: SST020 (10ppb) 77-11-01
Volume Injected (uL): 2.0
Column Phase: Hp5-HS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25



STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C3.D
 Lab Smp Id: sstd020 Client Smp ID: SSTD020
 Inj Date : 26-FEB-2001 11:47
 Operator : 007062 Inst ID: 722.i
 Smp Info : SSTD020 (10ppb) 77-11-01
 Misc Info : sstd020,022601.b,8270b.m,2-root.sub,1,1
 Comment :
 Method : \\QPITPA02\D\chem\722.i\022601.b\8270b.m
 Meth Date : 26-Feb-2001 12:29 bungardf Quant Type: ISTD
 Cal Date : 26-FEB-2001 11:47 Cal File: F02260C3.D
 Als bottle: 25 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-root.sub
 Target Version: 4.04
 Processing Host: PITPC062

Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ON-COL
* 1 1,4-Dichlorobenzene-d4	152	5.168	5.168	(1.000)	154404	40.0000	
* 2 Naphthalene-d8	136	6.728	6.728	(1.000)	596941	40.0000	
* 3 Acenaphthene-d10	164	9.800	9.800	(1.000)	339175	40.0000	
* 4 Phenanthrene-d10	188	13.122	13.122	(1.000)	637145	40.0000	
* 5 Chrysene-d12	240	19.757	19.757	(1.000)	721018	40.0000	
* 6 Perylene-d12	264	23.118	23.118	(1.000)	714947	40.0000	
10 N-Nitrosodimethylamine	74	2.144	2.144	(0.415)	61138	20.0000	20.0
9 Pyridine	79	2.139	2.139	(0.414)	98386	20.0000	20.0
16 Methyl methanesulfonate	80	3.678	3.678	(0.712)	10720	20.0000	20.0
21 Aniline	93	4.864	4.864	(0.941)	156429	20.0000	20.0
22 Phenol	94	4.853	4.853	(0.939)	143008	20.0000	20.0
23 bis (2-Chloroethyl) ether	93	4.928	4.928	(0.953)	109046	20.0000	20.0
24 2-Chlorophenol	128	4.976	4.976	(0.963)	102700	20.0000	20.0
26 1,3-Dichlorobenzene	146	5.131	5.131	(0.993)	116334	20.0000	20.0
27 1,4-Dichlorobenzene	146	5.189	5.189	(1.004)	117894	20.0000	20.0
28 1,2-Dichlorobenzene	146	5.398	5.398	(1.044)	109014	20.0000	20.0
29 Benzyl Alcohol	108	5.350	5.350	(1.035)	76024	20.0000	20.0
30 2-Methylphenol	108	5.499	5.499	(1.064)	95695	20.0000	20.0
31 2,2'-oxybis (1-Chloropropane)	45	5.526	5.526	(1.069)	194210	20.0000	20.0
32 N-Nitroso-di-n-propylamine	70	5.681	5.681	(1.099)	83066	20.0000	20.0
192 4-Methylphenol	108	5.659	5.659	(1.095)	101170	20.0000	20.0
34 Hexachloroethane	117	5.745	5.745	(1.112)	45559	20.0000	20.0
35 Nitrobenzene	77	5.857	5.857	(0.871)	124155	20.0000	20.0
41 Isophorone	82	6.135	6.135	(0.912)	196996	20.0000	20.0
42 2-Nitrophenol	139	6.247	6.247	(0.929)	53667	20.0000	20.0
43 2,4-Dimethylphenol	107	6.295	6.295	(0.936)	104464	20.0000	20.0

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
44 bis (2-Chloroethoxy)methane	93	6 423	6 423	(0 955)	125149	20 0000	20 0
48 2,4-Dichlorophenol	162	6 552	6 552	(0 974)	80675	20 0000	20 0
49 Benzoic Acid	122	6 397	6 397	(0 951)	47257	20 0000	20 0 (MH)
50 1,2,4-Trichlorobenzene	180	6 669	6 669	(0 991)	91704	20 0000	20 0
51 Naphthalene	128	6 755	6 755	(1 004)	302906	20 0000	20 0
52 4-Chloroaniline	127	6 861	6 861	(1.020)	118081	20 0000	20 0
56 Hexachlorobutadiene	225	7 016	7 016	(1 043)	58240	20 0000	20 0
59 4-Chloro-3-Methylphenol	107	7 593	7 593	(1 129)	89329	20 0000	20.0
62 2-Methylnaphthalene	142	7 807	7 807	(1 160)	198321	20 0000	20 0
205 1-Methylnaphthalene	142	7 994	7.994	(1 188)	202823	20 0000	20.0
64 Hexachlorocyclopentadiene	237	8 202	8 202	(0 837)	53639	20 0000	20 0
66 2,4,6-Trichlorophenol	196	8 347	8 347	(0 852)	58588	20 0000	20 0
67 2,4,5-Trichlorophenol	196	8 411	8 411	(0 858)	62641	20 0000	20 0
70 2-Chloronaphthalene	162	8 662	8 662	(0 884)	182872	20 0000	20.0
73 2-Nitroaniline	65	8 924	8 924	(0 911)	66091	20 0000	20.0
76 Dimethylphthalate	163	9 367	9.367	(0 956)	213815	20 0000	20 0
78 2,6-Dinitrotoluene	165	9 495	9 495	(0 969)	46518	20.0000	20.0
79 Acenaphthylene	152	9 479	9 479	(0 967)	283611	20.0000	20.0
81 3-Nitroaniline	138	9 762	9 762	(0.996)	53073	20 0000	20 0
82 Acenaphthene	153	9 864	9 864	(1.007)	185101	20 0000	20.0
83 2,4-Dinitrophenol	184	9 971	9 971	(1 017)	13732	20 0000	20 0
85 4-Nitrophenol	109	10 142	10 142	(1 035)	31084	20 0000	20 0
86 Dibenzofuran	168	10.200	10 200	(1 041)	268564	20 0000	20.0
87 2,4-Dinitrotoluene	165	10 312	10 312	(1 052)	63116	20 0000	20.0
91 2,3,5,6-Tetrachlorophenol	232	10 473	10 473	(1.069)	60262	20 0000	20.0
88 2,3,4,6-Tetrachlorophenol	232	10 569	10 569	(1 078)	59429	20 0000	20.0
92 2-Naphthylamine	143	10 542	10 542	(1 076)	183509	20 0000	20.0
93 Diethylphthalate	149	10 905	10 905	(1.113)	215470	20 0000	20 0
94 Fluorene	166	10.954	10 954	(1 118)	222700	20 0000	20 0
95 4-Chlorophenyl-phenylether	204	10.991	10 991	(1 122)	107579	20 0000	20 0
96 4-Nitroaniline	138	11 098	11.098	(1 132)	54616	20 0000	20 0
98 4,6-Dinitro-2-methylphenol	198	11 199	11 199	(0.853)	26453	20 0000	20 0
99 N-Nitrosodiphenylamine	169	11 274	11 274	(0 859)	161813	20 0000	20 0
100 1,2-Diphenylhydrazine	77	11 338	11.338	(0 864)	246687	20 0000	20 0
106 4-Bromophenyl-phenylether	248	12 102	12 102	(0.922)	62142	20 0000	20 0
107 Hexachlorobenzene	284	12 407	12 407	(0 945)	64849	20 0000	20 0
111 Pentachlorophenol	266	12 850	12 850	(0.979)	40509	20 0000	20 0
115 Phenanthrene	178	13 171	13.171	(1 004)	325486	20 0000	20.0
116 Anthracene	178	13 277	13 277	(1 012)	331367	20 0000	20 0
119 Carbazole	167	13 715	13 715	(1 045)	304224	20 0000	20 0
120 Di-n-Butylphthalate	149	14 853	14 853	(1.132)	354987	20 0000	20 0
123 Fluoranthene	202	16 114	16 114	(1 228)	352747	20.0000	20 0
124 Benzidine	184	16 531	16 531	(0 837)	127540	20.0000	20 0
125 Pyrene	202	16 659	16 659	(0.843)	367133	20 0000	20 0
131 Butylbenzylphthalate	149	18.593	18 593	(0.941)	161833	20.0000	20.0
135 3,3'-Dichlorobenzidine	252	19 757	19.757	(1 000)	142907	20 0000	20 0
136 Benzo(a)Anthracene	228	19 715	19.715	(0 998)	358410	20 0000	20 0

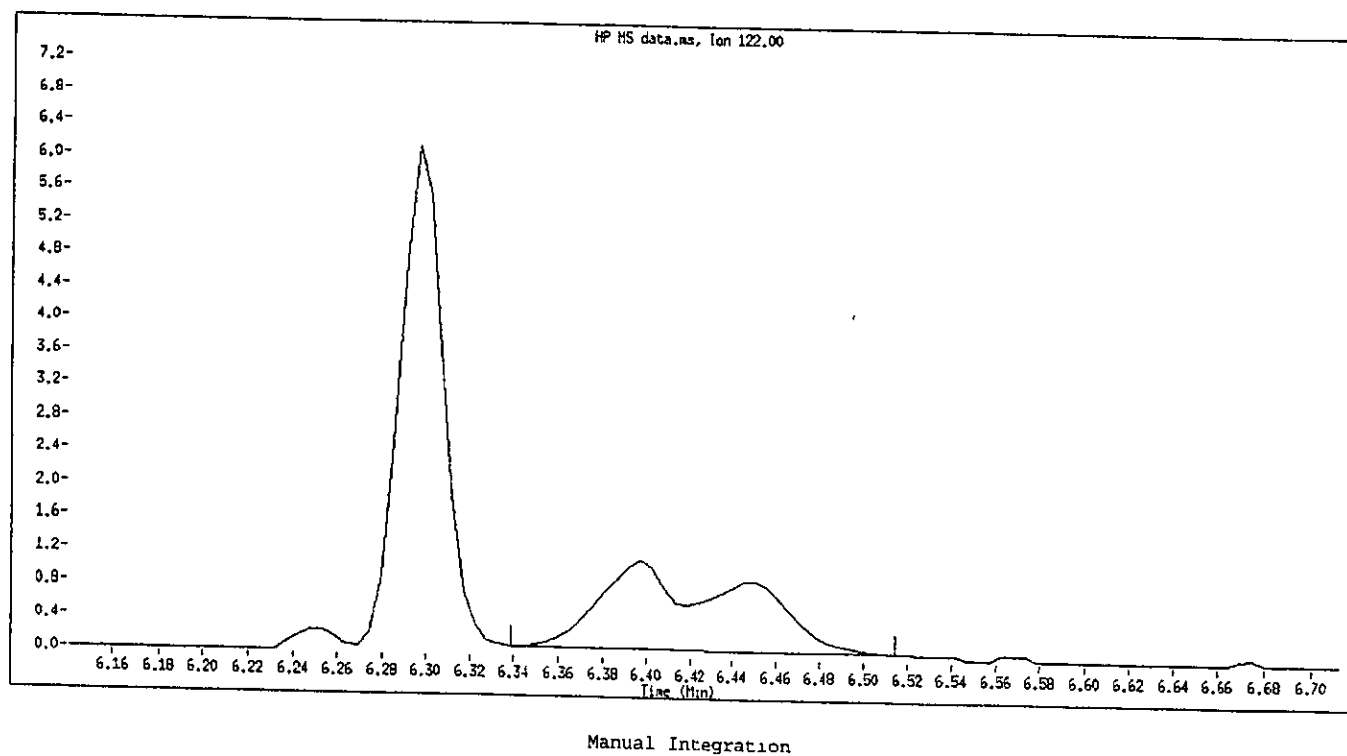
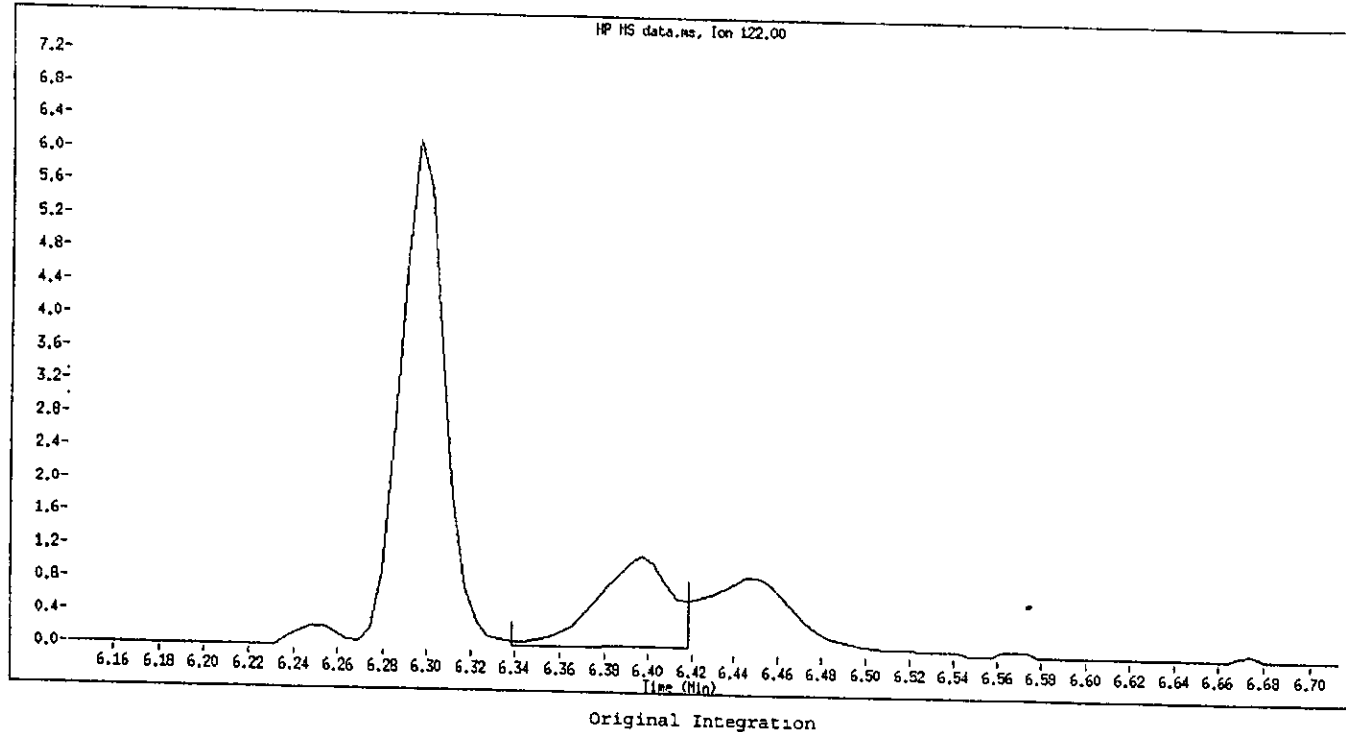
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(NG)	(NG)
=====	=====	==	=====	=====	=====	=====	=====
137 Chrysene	228	19.816	19.816	(1.003)	344651	20.0000	20.0
139 bis (2-ethylhexyl) Phthalate	149	20.163	20.163	(1.021)	222670	20.0000	20.0
140 Di-n-octylphthalate	149	21.627	21.627	(0.936)	380517	20.0000	20.0
141 Benzo(b)fluoranthene	252	22.295	22.295	(0.964)	393680	20.0000	20.0
142 Benzo(k)fluoranthene	252	22.348	22.348	(0.967)	407664	20.0000	20.0
143 7,12-dimethylbenz(a)anthracen	256	22.348	22.348	(0.967)	184012	20.0000	20.0
146 Benzo(a)pyrene	252	22.989	22.989	(0.994)	373516	20.0000	20.0
149 Indeno(1,2,3-cd)pyrene	276	25.393	25.393	(1.098)	576142	20.0000	20.0
150 Dibenz(a,h)anthracene	278	25.447	25.447	(1.101)	470672	20.0000	20.0
151 Benzo(g,h,i)perylene	276	25.997	25.997	(1.125)	520722	20.0000	20.0
\$ 154 Nitrobenzene-d5	82	5.836	5.836	(0.867)	116584	20.0000	20.0
\$ 155 2-Fluorobiphenyl	172	8.491	8.491	(0.866)	207791	20.0000	20.0
\$ 156 Terphenyl-d14	244	17.188	17.188	(0.870)	288932	20.0000	20.0
\$ 157 Phenol-d5	99	4.837	4.837	(0.936)	136355	20.0000	20.0
\$ 158 2-Fluorophenol	112	3.822	3.822	(0.740)	102029	20.0000	20.0
\$ 159 2,4,6-Tribromophenol	330	11.541	11.541	(0.880)	31483	20.0000	20.0
\$ 186 2-Chlorophenol-d4	132	4.960	4.960	(0.960)	102068	20.0000	20.0
\$ 187 1,2-Dichlorobenzene-d4	152	5.382	5.382	(1.041)	68046	20.0000	20.0

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

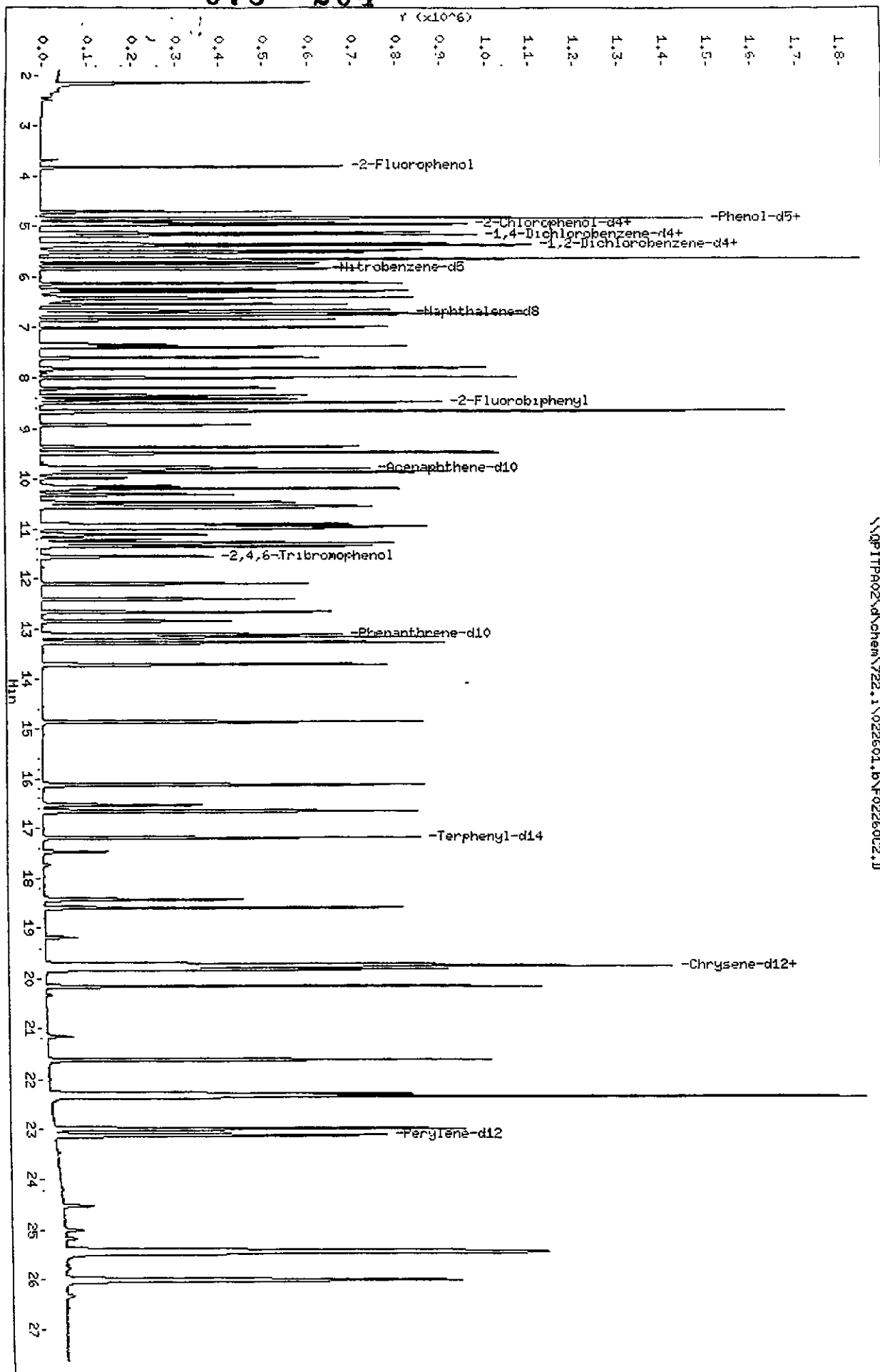
Data File Name F02260C3.D
Inj Date and Time 26-FEB-2001 11:47
Instrument ID. 722.1
Client ID SST020
Compound Name Benzoic Acid
CAS #. 65-85-0
Report Date 02/26/2001

678 203



Manually Integrated By: BungardF
Manual Integration Reason: Unknown

678 204



Data File: \\NPITPA02\chem\722.1\022601.b\F02260C2.D
 Date: 26-FEB-2001 11:04
 Client ID: SSTID050
 Sample Info: SSTID050 (25ppb) 77-13-14
 Column phase: Hp5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\NPITPA02\chem\722.1\022601.b\F02260C2.D

Data File: \\QPITPA02\d\chem\722.i\022601.b\F02260C2.D
Report Date: 26-Feb-2001 11:53

Page 1

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C2.D
Lab Smp Id: sstd050 Client Smp ID: SSTD050
Inj Date : 26-FEB-2001 11:04
Operator : 007062 Inst ID: 722.1
Smp Info : SSTD050 (25ppb) 77-13-14
Misc Info : sstd050,022601.b,8270b.m,2-root.sub,1,2
Comment :
Method : \\QPITPA02\d\chem\722.i\022601.b\8270b.m
Meth Date : 26-Feb-2001 11:53 bungardf Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*****	----	----	---	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5 176	5.176	(1 000)	139646	40 0000		
* 2 Naphthalene-d8	136	6 731	6.731	(1 000)	546454	40 0000		
* 3 Acenaphthene-d10	164	9 797	9.797	(1 000)	313250	40 0000		
* 4 Phenanthrene-d10	188	13 120	13.120	(1 000)	600741	40.0000		
* 5 Chrysene-d12	240	19 760	19.760	(1 000)	678720	40 0000		
* 6 Perylene-d12	264	23 115	23.115	(1 000)	734447	40 0000		(Q)
10 N-Nitrosodimethylamine	74	2 158	2.158	(0.417)	144734	50.0000		(Q)
9 Pyridine	79	2 153	2.153	(0.416)	234881	50 0000		
16 Methyl methanesulfonate	80	3.686	3.686	(0.712)	18423	50 0000		
21 Aniline	93	4.867	4.867	(0.940)	372505	50 0000		
22 Phenol	94	4.861	4.861	(0.939)	326957	50 0000		
23 bis(2-Chloroethyl)ether	93	4.936	4.936	(0.954)	250515	50 0000		
24 2-Chlorophenol	128	4.984	4.984	(0.963)	235538	50.0000		
26 1,3-Dichlorobenzene	146	5.134	5.134	(0.992)	265707	50.0000		
27 1,4-Dichlorobenzene	146	5.192	5.192	(1.003)	269161	50.0000		
28 1,2-Dichlorobenzene	146	5.401	5.401	(1.043)	248712	50.0000		
29 Benzyl Alcohol	108	5.353	5.353	(1.034)	188247	50 0000		
30 2-Methylphenol	108	5.502	5.502	(1.063)	221335	50 0000		
31 2,2'-oxybis(1-Chloropropane)	45	5.529	5.529	(1.068)	448358	50.0000		
32 N-Nitroso-di-n-propylamine	70	5.689	5.689	(1.099)	198681	50 0000		
192 4-Methylphenol	108	5.663	5.663	(1.094)	236820	50 0000		
34 Hexachloroethane	117	5.748	5.748	(1.110)	104611	50 0000		(Q)
35 Nitrobenzene	77	5.860	5.860	(0.871)	293426	50 0000		
41 Isophorone	82	6.138	6.138	(0.912)	468711	50.0000		
42 2-Nitrophenol	139	6.250	6.250	(0.929)	129117	50 0000		
43 2,4-Dimethylphenol	107	6.298	6.298	(0.936)	247723	50 0000		

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
=====	----	--	-----	-----	-----	-----	-----
44 bis (2-Chloroethoxy)methane	93	6.426	6.426	(0.955)	290299	50 0000	
48 2,4-Dichlorophenol	162	6.555	6.555	(0.974)	190899	50 0000	
49 Benzoic Acid	122	6.448	6.448	(0.958)	116378	50 0000	
50 1,2,4-Trichlorobenzene	180	6.672	6.672	(0.991)	212022	50 0000	
51 Naphthalene	128	6.758	6.758	(1.004)	695637	50.0000	(Q)
52 4-Chloroaniline	127	6.859	6.859	(1.019)	277647	50 0000	
56 Hexachlorobutadiene	225	7.014	7.014	(1.042)	135942	50 0000	
59 4-Chloro-3-Methylphenol	107	7.596	7.596	(1.129)	217748	50 0000	
62 2-Methylnaphthalene	142	7.810	7.810	(1.160)	460178	50 0000	
205 1-Methylnaphthalene	142	7.992	7.992	(1.187)	491009	50 0000	
64 Hexachlorocyclopentadiene	237	8.200	8.200	(0.837)	144706	50 0000	(Q)
66 2,4,6-Trichlorophenol	196	8.350	8.350	(0.852)	141203	50 0000	
67 2,4,5-Trichlorophenol	196	8.419	8.419	(0.859)	148651	50.0000	
70 2-Chloronaphthalene	162	8.665	8.665	(0.884)	425560	50 0000	
73 2-Nitroaniline	65	8.927	8.927	(0.911)	165918	50 0000	
76 Dimethylphthalate	163	9.370	9.370	(0.956)	506040	50 0000	
78 2,6-Dinitrotoluene	165	9.498	9.498	(0.969)	114396	50.0000	
79 Acenaphthylene	152	9.482	9.482	(0.968)	660325	50 0000	(Q)
81 3-Nitroaniline	138	9.765	9.765	(0.997)	132514	50 0000	
82 Acenaphthene	153	9.867	9.867	(1.007)	434603	50 0000	
83 2,4-Dinitrophenol	184	9.974	9.974	(1.018)	49923	50 0000	
85 4-Nitrophenol	109	10.150	10.150	(1.036)	80494	50 0000	
86 Dibenzofuran	168	10.203	10.203	(1.041)	627155	50 0000	
87 2,4-Dinitrotoluene	165	10.316	10.316	(1.053)	156554	50 0000	
91 2,3,5,6-Tetrachlorophenol	232	10.476	10.476	(1.069)	154974	50 0000	
88 2,3,4,6-Tetrachlorophenol	232	10.577	10.577	(1.080)	151361	50.0000	
92 2-Naphthylamine	143	10.551	10.551	(1.077)	455291	50 0000	
93 Diethylphthalate	149	10.914	10.914	(1.114)	516498	50.0000	
94 Fluorene	166	10.957	10.957	(1.118)	514482	50 0000	
95 4-Chlorophenyl-phenylether	204	10.989	10.989	(1.122)	253084	50 0000	
96 4-Nitroaniline	138	11.106	11.106	(1.134)	133905	50 0000	
98 4,6-Dinitro-2-methylphenol	198	11.208	11.208	(0.854)	79874	50 0000	
99 N-Nitrosodiphenylamine	169	11.282	11.282	(0.860)	406055	50.0000	
100 1,2-Diphenylhydrazine	77	11.347	11.347	(0.865)	599672	50.0000	
106 4-Bromophenyl-phenylether	248	12.105	12.105	(0.923)	148556	50 0000	
107 Hexachlorobenzene	284	12.410	12.410	(0.946)	154700	50 0000	
111 Pentachlorophenol	266	12.848	12.848	(0.979)	105691	50 0000	(Q)
115 Phenanthrene	178	13.174	13.174	(1.004)	767561	50 0000	
116 Anthracene	178	13.280	13.280	(1.012)	785154	50.0000	
119 Carbazole	167	13.718	13.718	(1.046)	729620	50 0000	(Q)
120 Di-n-Butylphthalate	149	14.856	14.856	(1.132)	884643	50 0000	
123 Fluoranthene	202	16.117	16.117	(1.228)	849025	50 0000	
124 Benzidine	184	16.534	16.534	(0.837)	334902	50 0000	
125 Pyrene	202	16.662	16.662	(0.843)	877990	50 0000	
131 Butylbenzylphthalate	149	18.596	18.596	(0.941)	402952	50 0000	
135 3,3'-Dichlorobenzidine	252	19.760	19.760	(1.000)	356464	50 0000	
136 Benzo(a)Anthracene	228	19.718	19.718	(0.998)	867173	50 0000	

Data File: \\QPITPA02\d\chem\722.i\022601.b\F02260C2 D
Report Date: 26-Feb-2001 11:53

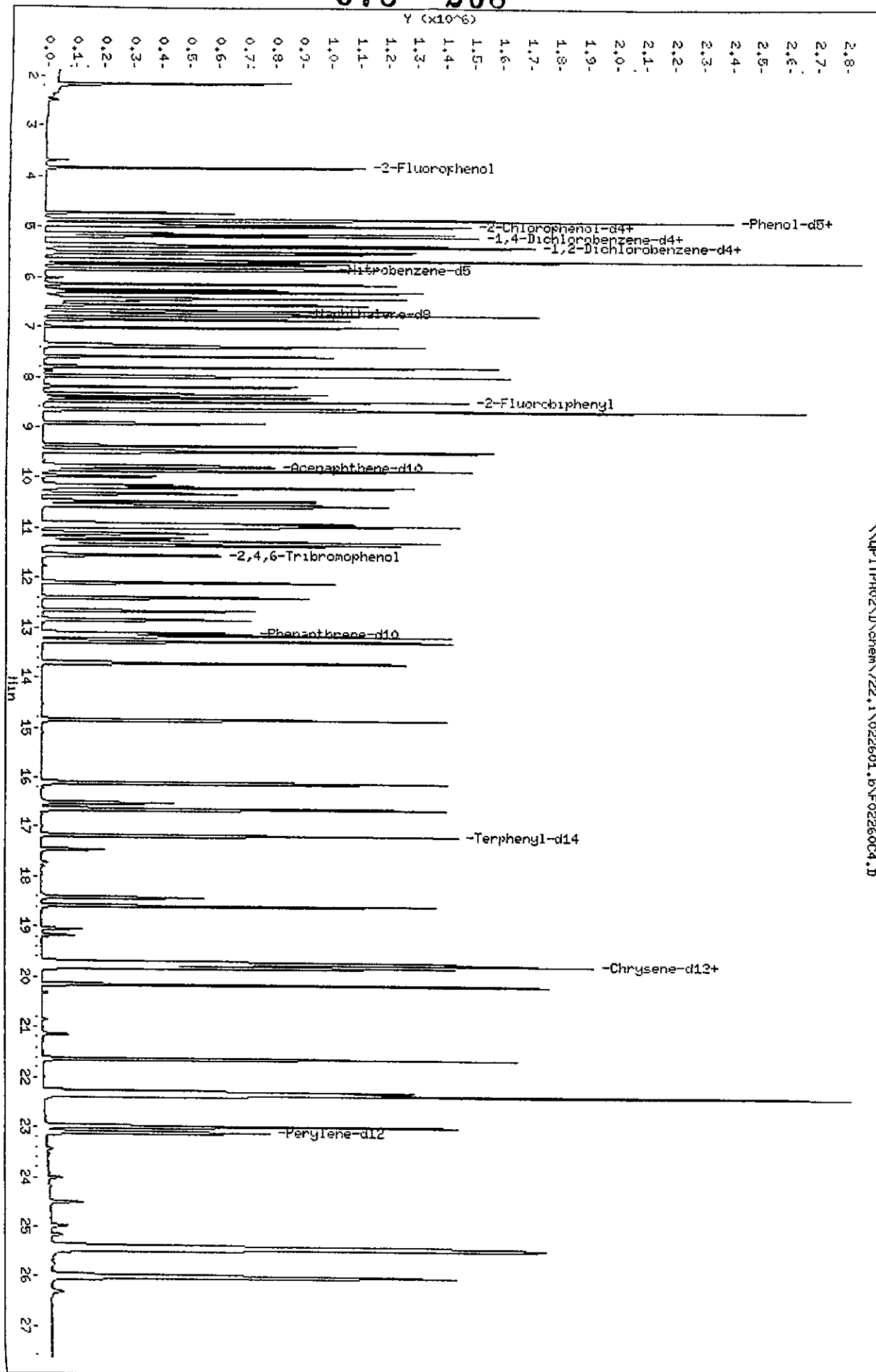
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
-----	----	==	-----	-----	-----	-----	-----
137 Chrysene	228	19.825	19.825	(1.003)	819595	50.0000	
139 bis(2-ethylhexyl)Phthalate	149	20.166	20.166	(1.021)	569845	50.0000	
140 Di-n-octylphthalate	149	21.630	21.630	(0.936)	956912	50.0000	(Q)
141 Benzo(b)fluoranthene	252	22.303	22.303	(0.965)	912523	50.0000	
142 Benzo(k)fluoranthene	252	22.362	22.362	(0.967)	1039873	50.0000	
143 7,12-dimethylbenz[a]anthracen	256	22.362	22.362	(0.967)	509547	50.0000	
146 Benzo(a)pyrene	252	22.998	22.998	(0.995)	968784	50.0000	
149 Indeno(1,2,3-cd)pyrene	276	25.412	25.412	(1.099)	1476997	50.0000	
150 Dibenz(a,h)anthracene	278	25.455	25.455	(1.101)	1215150	50.0000	
151 Benzo(g,h,i)perylene	276	26.016	26.016	(1.125)	1321669	50.0000	
\$ 154 Nitrobenzene-d5	82	5.839	5.839	(0.867)	274058	50.0000	
\$ 155 2-Fluorobiphenyl	172	8.494	8.494	(0.867)	481200	50.0000	
\$ 156 Terphenyl-d14	244	17.191	17.191	(0.870)	684045	50.0000	
\$ 157 Phenol-d5	99	4.845	4.845	(0.936)	323718	50.0000	
\$ 158 2-Fluorophenol	112	3.836	3.836	(0.741)	243801	50.0000	
\$ 159 2,4,6-Tribromophenol	330	11.550	11.550	(0.880)	81003	50.0000	
\$ 186 2-Chlorophenol-d4	132	4.968	4.968	(0.960)	241771	50.0000	
\$ 187 1,2-Dichlorobenzene-d4	152	5.385	5.385	(1.040)	152211	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: \\NPITP002\J\chem\722.1\022601.b\F0226004.D
 Date: 26-FEB-2004 12:24
 Client ID:
 Sample Info: SST0080 (40ppb) 77-11-03
 Volume Injected (uL): 2.0
 Column Phase: HP5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25



678 209

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C4.D
Lab Smp Id: sstd080 Client Smp ID: SSTD080
Inj Date : 26-FEB-2001 12:21
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD080 (40ppb) 77-11-03
Misc Info : sstd080,022601.b,8270b.m,2-root.sub,1,3
Comment :
Method : \\QPITPA02\d\chem\722.i\022601.b\8270b.m
Meth Date : 26-Feb-2001 12:52 bungardf Quant Type: ISTD
Cal Date : 26-FEB-2001 12:21 Cal File: F02260C4.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

Handwritten:
7/26/01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5 167	5.167	(1 000)	149405	40 0000	
* 2 Naphthalene-d8	136	6 727	6 727	(1 000)	588609	40 0000	
* 3 Acenaphthene-d10	164	9.788	9 788	(1 000)	337199	40 0000	
* 4 Phenanthrene-d10	188	13 111	13 111	(1 000)	651532	40.0000	
* 5 Chrysene-d12	240	19 751	19.751	(1 000)	731883	40 0000	
* 6 Perylene-d12	264	23.106	23 106	(1 000)	775308	40 0000	
10 N-Nitrosodimethylamine	74	2 149	2 149	(0 416)	229542	80.0000	78 8
9 Pyridine	79	2 144	2 144	(0 415)	370704	80 0000	78 9
16 Methyl methanesulfonate	80	3 677	3 677	(0 712)	39325	80.0000	77 8
21 Aniline	93	4 863	4.863	(0 941)	555936	80.0000	76 6
22 Phenol	94	4 858	4.858	(0 940)	512331	80 0000	76 9
23 bis (2-Chloroethyl) ether	93	4.938	4 938	(0 956)	398433	80 0000	77 7
24 2-Chlorophenol	128	4.980	4.980	(0 964)	375610	80 0000	77 7
26 1,3-Dichlorobenzene	146	5 130	5.130	(0.993)	421060	80 0000	77 3
27 1,4-Dichlorobenzene	146	5 189	5 189	(1.004)	430336	80 0000	77 6
28 1,2-Dichlorobenzene	146	5 397	5 397	(1 044)	396761	80 0000	77 5
29 Benzyl Alcohol	108	5 349	5.349	(1 035)	298655	80.0000	80.6
30 2-Methylphenol	108	5 499	5 499	(1 064)	349268	80 0000	77 6
31 2,2'-oxybis(1-Chloropropane)	45	5 525	5 525	(1 069)	703794	80 0000	77 4
32 N-Nitroso-di-n-propylamine	70	5 691	5.691	(1 101)	318770	80 0000	79 6
192 4-Methylphenol	108	5 659	5 659	(1 095)	370570	80 0000	77 8
34 Hexachloroethane	117	5 744	5 744	(1.112)	169806	80 0000	78 5
35 Nitrobenzene	77	5 856	5 856	(0 871)	470954	80 0000	78 4
41 Isophorone	82	6.134	6 134	(0 912)	750346	80 0000	78.6
42 2-Nitrophenol	139	6.246	6 246	(0 929)	212244	80 0000	80.1
43 2,4-Dimethylphenol	107	6 295	6.295	(0 936)	395084	80 0000	78 3

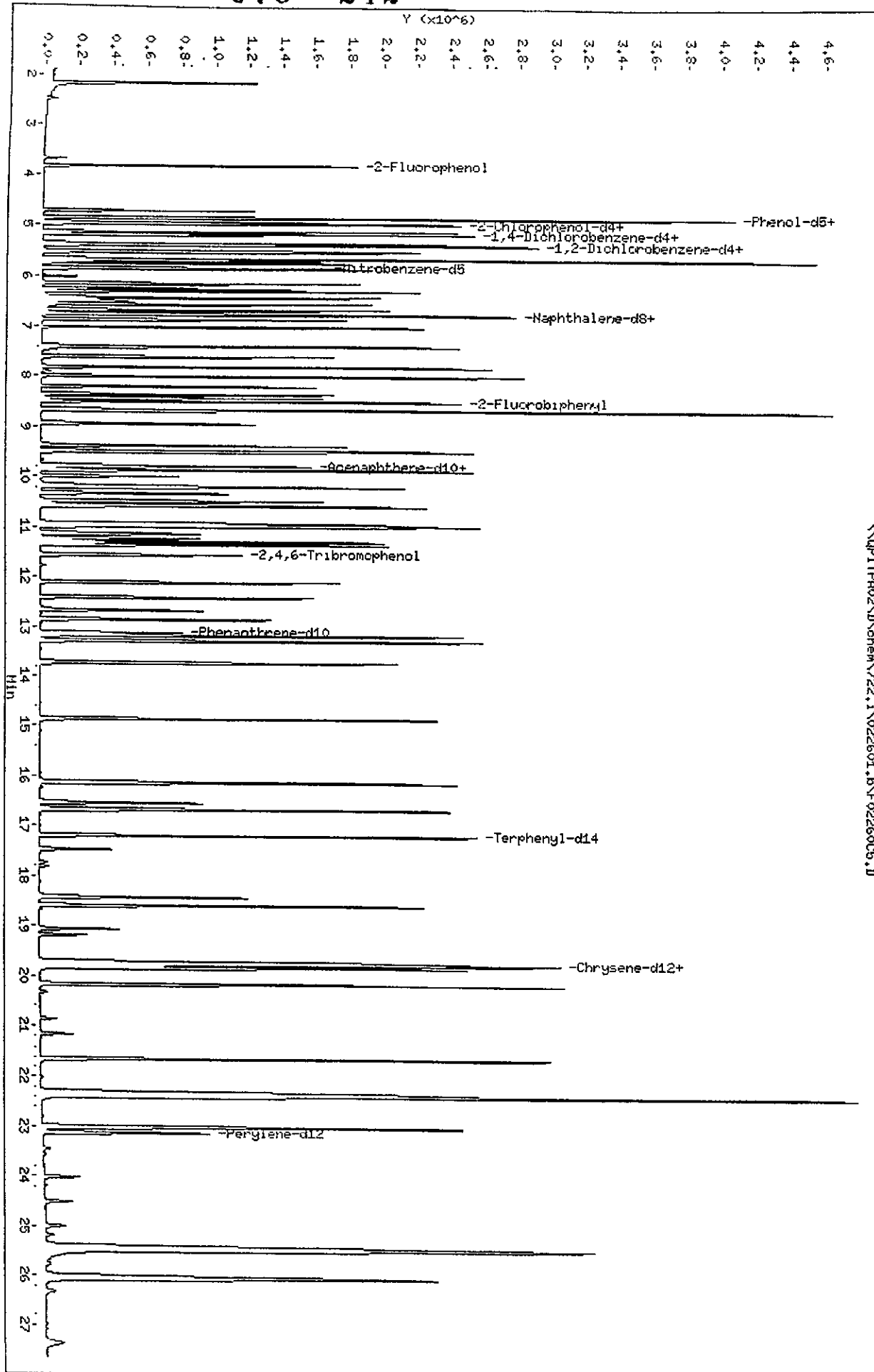
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
=====	=====	==	=====	=====	=====	=====	=====
44 bis (2-Chloroethoxy)methane	93	6 423	6 423	(0 955)	464950	80 0000	77 6
48 2,4-Dichlorophenol	162	6 551	6 551	(0 974)	309778	80 0000	78.9
49 Benzoic Acid	122	6.466	6 466	(0 961)	204004	80 0000	83 6
50 1,2,4-Trichlorobenzene	180	6 669	6 669	(0 991)	345236	80.0000	78 1
51 Naphthalene	128	6 754	6 754	(1 004)	1104609	80 0000	76 9
52 4-Chloroaniline	127	6 855	6 855	(1.019)	445425	80 0000	78 2
56 Hexachlorobutadiene	225	7 010	7 010	(1.042)	221494	80.0000	78 5
59 4-Chloro-3-Methylphenol	107	7 593	7 593	(1.129)	356201	80.0000	80 4
62 2-Methylnaphthalene	142	7 801	7 801	(1 160)	744447	80.0000	78 0
205 1-Methylnaphthalene	142	7.988	7 988	(1.187)	771574	80.0000	78 6
64 Hexachlorocyclopentadiene	237	8 191	8 191	(0 837)	244253	80.0000	85 4
66 2,4,6-Trichlorophenol	196	8.341	8 341	(0.852)	234641	80.0000	80.3
67 2,4,5-Trichlorophenol	196	8 415	8 415	(0 860)	253258	80.0000	80 7
70 2-Chloronaphthalene	162	8.656	8 656	(0 884)	687078	80 0000	77 7
73 2-Nitroaniline	65	8 923	8 923	(0.912)	273157	80.0000	81 5
76 Dimethylphthalate	163	9.366	9 366	(0 957)	824438	80 0000	78 8
78 2,6-Dinitrotoluene	165	9 494	9 494	(0 970)	190709	80 0000	81 2
79 Acenaphthylene	152	9 473	9.473	(0 968)	1076663	80 0000	78.1
81 3-Nitroaniline	138	9.762	9 762	(0 997)	217256	80.0000	81.2
82 Acenaphthene	153	9.858	9 858	(1 007)	705516	80.0000	78 3
83 2,4-Dinitrophenol	184	9.970	9 970	(1 019)	104711	80.0000	105
85 4-Nitrophenol	109	10 146	10 146	(1.037)	134952	80.0000	83 5
86 Dibenzofuran	168	10.194	10 194	(1.041)	1014632	80 0000	78 0
87 2,4-Dinitrotoluene	165	10.317	10 317	(1 054)	265821	80 0000	82 3
91 2,3,5,6-Tetrachlorophenol	232	10 472	10 472	(1 070)	255676	80.0000	82.6
88 2,3,4,6-Tetrachlorophenol	232	10.568	10.568	(1 080)	244432	80 0000	81 3
92 2-Naphthylamine	143	10 542	10 542	(1.077)	612892	80 0000	73 0
93 Diethylphthalate	149	10.910	10 910	(1 115)	850973	80 0000	79 7
94 Fluorene	166	10.948	10.948	(1 118)	845964	80.0000	78 2
95 4-Chlorophenyl-phenylether	204	10 985	10.985	(1 122)	414576	80 0000	78.7
96 4-Nitroaniline	138	11.113	11.113	(1.135)	224331	80.0000	81 3
98 4,6-Dinitro-2-methylphenol	198	11 209	11 209	(0.855)	151680	80 0000	93.4
99 N-Nitrosodiphenylamine	169	11.279	11 279	(0.860)	700324	80 0000	82 2
100 1,2-Diphenylhydrazine	77	11.338	11 338	(0.865)	955846	80.0000	78 2
106 4-Bromophenyl-phenylether	248	12.096	12.096	(0 923)	249149	80 0000	79 2
107 Hexachlorobenzene	284	12 401	12.401	(0 946)	257794	80.0000	78 8
111 Pentachlorophenol	266	12.839	12 839	(0 979)	179882	80 0000	83 3
115 Phenanthrene	178	13 170	13 170	(1 004)	1264815	80 0000	77 9
116 Anthracene	178	13.277	13.277	(1 013)	1289832	80 0000	78 0
119 Carbazole	167	13.709	13 709	(1.046)	1199196	80.0000	78 5
120 Di-n-Butylphthalate	149	14 847	14 847	(1 132)	1454073	80.0000	80 0
123 Fluoranthene	202	16 113	16 113	(1.229)	1417500	80 0000	79 3
124 Benzidine	184	16 525	16.525	(0.837)	445607	80 0000	74 0
125 Pyrene	202	16 653	16 653	(0 843)	1446896	80 0000	78 8
131 Butylbenzylphthalate	149	18 587	18 587	(0 941)	672229	80 0000	80 9
135 3,3'-Dichlorobenzidine	252	19.757	19 757	(1 000)	576792	80 0000	79.8
136 Benzo(a)Anthracene	228	19.714	19 714	(0 998)	1425347	80 0000	79 2

678 211

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (NG)	ON-COL (NG)
-----	----	--	-----	-----	-----	-----	-----
137 Chrysene	228	19 821	19 821	(1 004)	1343408	80 0000	78 4
139 bis (2-ethylhexyl) Phthalate	149	20 157	20 157	(1.021)	952858	80 0000	82 1
140 Di-n-octylphthalate	149	21.626	21 626	(0 936)	1620215	80 0000	79 2
141 Benzo(b) fluoranthene	252	22 294	22 294	(0 965)	1523074	80 0000	75 4
142 Benzo(k) fluoranthene	252	22.353	22 353	(0 967)	1730770	80 0000	79 1
143 7,12-dimethylbenz[a]anthracen	256	22.358	22 358	(0 968)	810073	80 0000	80 6
146 Benzo(a)pyrene	252	22 989	22 989	(0 995)	1560198	80 0000	78 5
149 Indeno(1,2,3-cd)pyrene	276	25 409	25 409	(1 100)	2381188	80 0000	78 1
150 Dibenz(a,h)anthracene	278	25 457	25 457	(1 102)	1961018	80 0000	78 4
151 Benzo(g,h,i)perylene	276	26 012	26 012	(1 126)	2137725	80 0000	77 8
\$ 154 Nitrobenzene-d5	82	5 835	5.835	(0.867)	446529	80 0000	78 8
\$ 155 2-Fluorobiphenyl	172	8 485	8 485	(0.867)	788381	80.0000	78 1
\$ 156 Terphenyl-d14	244	17 176	17 176	(0.870)	1142621	80 0000	78 9
\$ 157 Phenol-d5	99	4 847	4 847	(0 938)	504758	80.0000	78 2
\$ 158 2-Fluorophenol	112	3 826	3 826	(0 741)	382896	80 0000	78 8
\$ 159 2,4,6-Tribromophenol	330	11 541	11 541	(0 880)	132622	80 0000	81.2
\$ 186 2-Chlorophenol-d4	132	4 964	4 964	(0 961)	379900	80 0000	78 4
\$ 187 1,2-Dichlorobenzene-d4	152	5 381	5 381	(1 041)	245866	80 0000	77.2

Data File: \\QPIITPA02\B\chem\722.1\022601.b\F0226005.D
 Date: 26-FEB-2001 12:54
 Client ID:
 Sample Info: SST120 (60ppb) 77-11-04
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25



678 213

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C5.D
Lab Smp Id: sstd120 Client Smp ID: SSTD120
Inj Date : 26-FEB-2001 12:54
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD120 (60ppb) 77-11-04
Misc Info : sstd120,022601.b,8270b.m,2-root.sub,1,4
Comment :
Method : \\QPITPA02\D\chem\722.i\022601.b\8270b.m
Meth Date : 26-Feb-2001 13:27 bungardf Quant Type: ISTD
Cal Date : 26-FEB-2001 12:54 Cal File: F02260C5.D
Als bottle: 27 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

[Handwritten signature]
2/26/01

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5 176	5 176	(1 000)	174798	40 0000	
* 2 Naphthalene-d8	136	6 736	6 736	(1.000)	692059	40 0000	
* 3 Acenaphthene-d10	164	9 803	9.803	(1 000)	403165	40.0000	
* 4 Phenanthrene-d10	188	13 126	13.126	(1 000)	786246	40 0000	
* 5 Chrysene-d12	240	19 771	19 771	(1 000)	881037	40 0000	
* 6 Perylene-d12	264	23 131	23.131	(1.000)	948797	40 0000	
10 N-Nitrosodimethylamine	74	2 163	2 163	(0 418)	394473	120 000	115
9 Pyridine	79	2 153	2 153	(0.416)	630659	120.000	114
16 Methyl methanesulfonate	80	3 686	3.686	(0 712)	69673	120 000	125
21 Aniline	93	4 872	4 872	(0 941)	921465	120 000	108
22 Phenol	94	4 872	4 872	(0 941)	856169	120 000	111
23 bis (2-Chloroethyl) ether	93	4 947	4.947	(0 956)	672275	120 000	113
24 2-Chlorophenol	128	4 989	4 989	(0.964)	641898	120 000	114
26 1,3-Dichlorobenzene	146	5.139	5.139	(0.993)	712008	120 000	112
27 1,4-Dichlorobenzene	146	5 198	5.198	(1.004)	727110	120 000	113
28 1,2-Dichlorobenzene	146	5 406	5.406	(1 044)	675043	120 000	113
29 Benzyl Alcohol	108	5 363	5 363	(1 036)	513567	120 000	116
30 2-Methylphenol	108	5 513	5.513	(1 065)	597101	120 000	114
31 2,2'-oxybis (1-Chloropropane)	45	5 534	5 534	(1.069)	1171687	120 000	111
32 N-Nitroso-di-n-propylamine	70	5 705	5 705	(1 102)	557377	120 000	117
192 4-Methylphenol	108	5 673	5 673	(1 096)	630831	120 000	113
34 Hexachloroethane	117	5 753	5 753	(1.111)	291871	120 000	115
35 Nitrobenzene	77	5 871	5 871	(0 872)	810784	120.000	114
41 Isophorone	82	6 154	6.154	(0.914)	1292348	120 000	115
42 2-Nitrophenol	139	6 256	6.256	(0 929)	372847	120 000	118
43 2,4-Dimethylphenol	107	6 309	6 309	(0.937)	681972	120 000	114

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (NG)	ON-COL (NG)
=====	=====	==	=====	=====	=====	=====	=====
44 bis (2-Chloroethoxy)methane	93	6.437	6.437	(0.956)	798499	120.000	114
48 2,4-Dichlorophenol	162	6.565	6.565	(0.975)	533513	120.000	115
49 Benzoic Acid	122	6.517	6.517	(0.967)	400850	120.000	154
50 1,2,4-Trichlorobenzene	180	6.678	6.678	(0.991)	597740	120.000	115
51 Naphthalene	128	6.768	6.768	(1.005)	1846491	120.000	110
52 4-Chloroaniline	127	6.865	6.865	(1.019)	765279	120.000	114
56 Hexachlorobutadiene	225	7.019	7.019	(1.042)	390673	120.000	117
59 4-Chloro-3-Methylphenol	107	7.612	7.612	(1.130)	627129	120.000	118
62 2-Methylnaphthalene	142	7.815	7.815	(1.160)	1282586	120.000	114
205 1-Methylnaphthalene	142	8.002	8.002	(1.188)	1334807	120.000	114
64 Hexachlorocyclopentadiene	237	8.205	8.205	(0.837)	444680	120.000	125
66 2,4,6-Trichlorophenol	196	8.355	8.355	(0.852)	414892	120.000	118
67 2,4,5-Trichlorophenol	196	8.430	8.430	(0.860)	436639	120.000	117
70 2-Chloronaphthalene	162	8.676	8.676	(0.885)	1199419	120.000	114
73 2-Nitroaniline	65	8.943	8.943	(0.912)	494044	120.000	120
76 Dimethylphthalate	163	9.386	9.386	(0.957)	1440635	120.000	115
78 2,6-Dinitrotoluene	165	9.514	9.514	(0.971)	341969	120.000	120
79 Acenaphthylene	152	9.488	9.488	(0.968)	1838489	120.000	113
81 3-Nitroaniline	138	9.787	9.787	(0.998)	389865	120.000	119
82 Acenaphthene	153	9.878	9.878	(1.008)	1221065	120.000	114
83 2,4-Dinitrophenol	184	9.995	9.995	(1.020)	217488	120.000	159
85 4-Nitrophenol	109	10.171	10.171	(1.038)	246690	120.000	123
86 Dibenzofuran	168	10.214	10.214	(1.042)	1754581	120.000	113
87 2,4-Dinitrotoluene	165	10.342	10.342	(1.055)	477773	120.000	121
91 2,3,5,6-Tetrachlorophenol	232	10.492	10.492	(1.070)	464261	120.000	122
88 2,3,4,6-Tetrachlorophenol	232	10.593	10.593	(1.081)	440831	120.000	120
92 2-Naphthylamine	143	10.567	10.567	(1.078)	1043319	120.000	103
93 Diethylphthalate	149	10.925	10.925	(1.114)	1493717	120.000	116
94 Fluorene	166	10.967	10.967	(1.119)	1456371	120.000	114
95 4-Chlorophenyl-phenylether	204	10.999	10.999	(1.122)	732129	120.000	116
96 4-Nitroaniline	138	11.144	11.144	(1.137)	405981	120.000	121
98 4,6-Dinitro-2-methylphenol	198	11.234	11.234	(0.856)	296567	120.000	140
99 N-Nitrosodiphenylamine	169	11.299	11.299	(0.861)	1026955	120.000	103
100 1,2-Diphenylhydrazine	77	11.357	11.357	(0.865)	1696442	120.000	114
106 4-Bromophenyl-phenylether	248	12.111	12.111	(0.923)	445757	120.000	117
107 Hexachlorobenzene	284	12.420	12.420	(0.946)	457023	120.000	116
111 Pentachlorophenol	266	12.858	12.858	(0.980)	332735	120.000	124
115 Phenanthrene	178	13.190	13.190	(1.005)	2187411	120.000	113
116 Anthracene	178	13.296	13.296	(1.013)	2245691	120.000	113
119 Carbazole	167	13.729	13.729	(1.046)	2105952	120.000	114
120 Di-n-Butylphthalate	149	14.867	14.867	(1.133)	2552970	120.000	116
123 Fluoranthene	202	16.133	16.133	(1.229)	2477766	120.000	115
124 Benzidine	184	16.539	16.539	(0.837)	885974	120.000	116
125 Pyrene	202	16.678	16.678	(0.844)	2531222	120.000	115
131 Butylbenzylphthalate	149	18.607	18.607	(0.941)	1187769	120.000	118
135 3,3'-Dichlorobenzidine	252	19.776	19.776	(1.000)	1058953	120.000	119
136 Benzo(a)Anthracene	228	19.734	19.734	(0.998)	2502834	120.000	115

678 215

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(NG)	(NG)
*****	****	==	*****	*****	*****	*****	*****
137 Chrysene	228	19 841	19 841	{1 004}	2331928	120.000	114
139 bis(2-ethylhexyl)Phthalate	149	20 172	20 172	{1.020}	1680740	120 000	118
140 Di-n-octylphthalate	149	21 641	21 641	{0 936}	2853335	120 000	116
141 Benzo(b)fluoranthene	252	22 330	22 330	{0.965}	2811600	120 000	117
142 Benzo(k)fluoranthene	252	22 394	22 394	{0 968}	3030488	120 000	115 (M)
143 7,12-dimethylbenz[a]anthracen	256	22 389	22 389	{0 968}	1515335	120 000	120
146 Benzo(a)pyrene	252	23 019	23 019	{0 995}	2771152	120 000	114
149 Indeno{1,2,3-cd}pyrene	276	25 450	25 450	{1 100}	4276184	120 000	115
150 Dibenz(a,h)anthracene	278	25 498	25 498	{1 102}	3510904	120 000	115
151 Benzo(g,h,i)perylene	276	26 064	26 064	{1 127}	3792404	120 000	114
\$ 154 Nitrobenzene-d5	82	5 850	5 850	{0 868}	773904	120 000	116
\$ 155 2-Fluorobiphenyl	172	8 499	8 499	{0.867}	1339799	120 000	112
\$ 156 Terphenyl-d14	244	17 196	17 196	{0 870}	2011078	120 000	116
\$ 157 Phenol-d5	99	4 861	4 861	{0 939}	866785	120 000	114
\$ 158 2-Fluorophenol	112	3 836	3 836	{0 741}	659782	120 000	115
\$ 159 2,4,6-Tribromophenol	330	11 560	11 560	{0 881}	241363	120 000	120
\$ 186 2-Chlorophenol-d4	132	4 973	4 973	{0.961}	652627	120 000	114
\$ 187 1,2-Dichlorobenzene-d4	152	5 390	5 390	{1 041}	417337	120 000	113

QC Flag Legend

M - Compound response manually integrated.

Inj Date and Time 26-FEB-2001 12.54

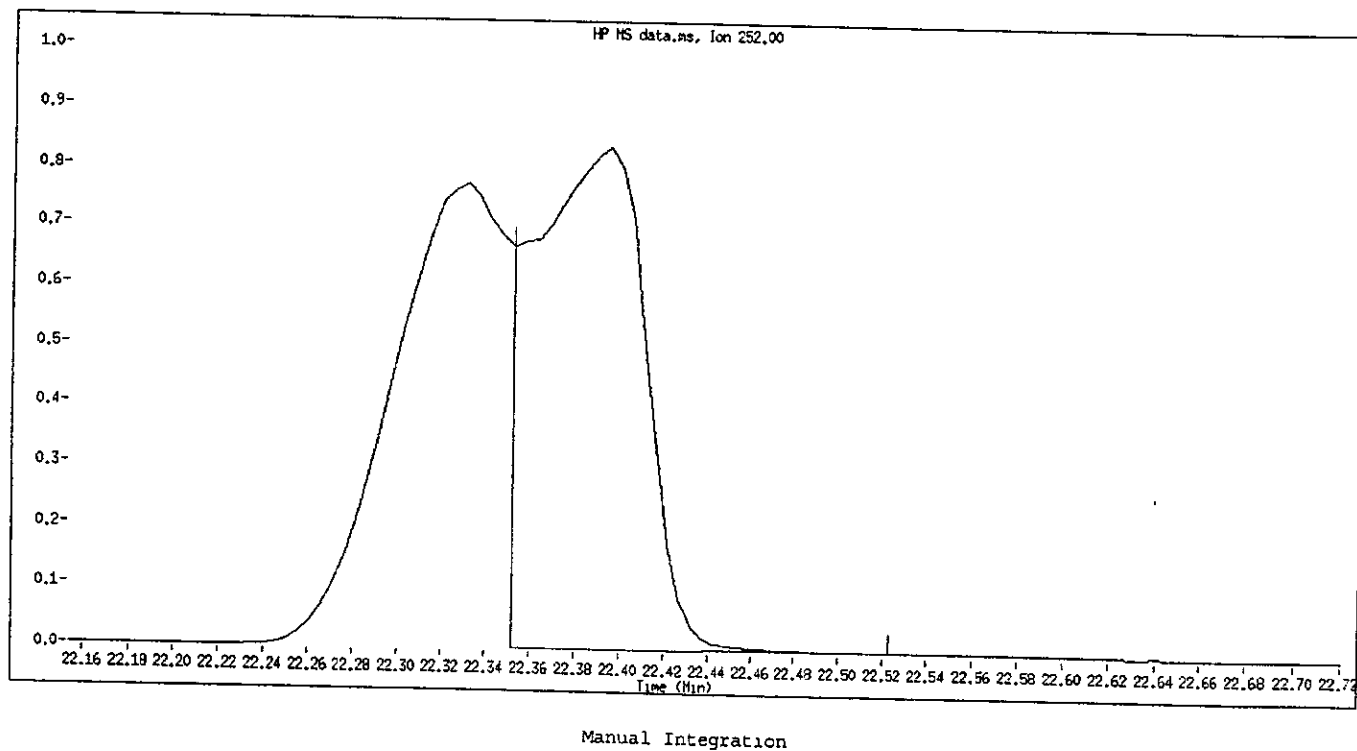
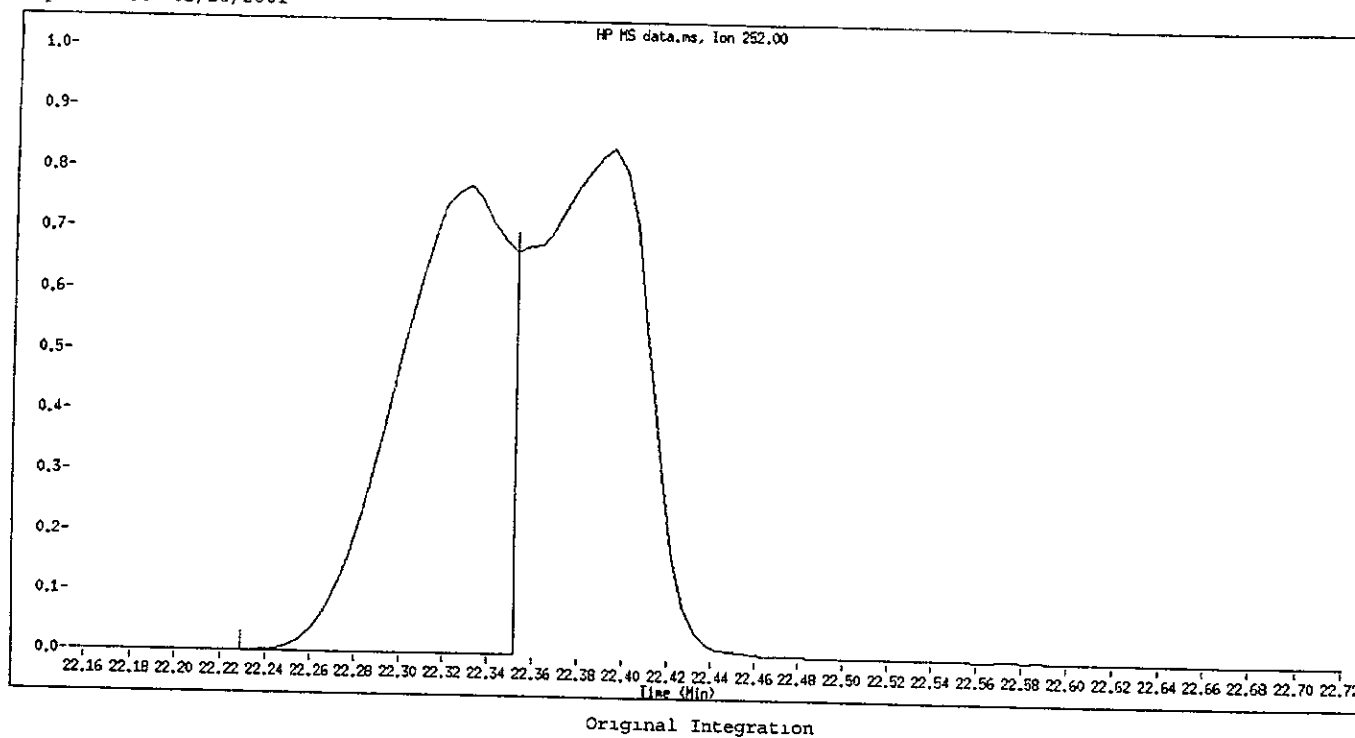
Instrument ID- 722.1

Client ID SSTDI20

Compound Name Benzo(k)fluoranthene

CAS # 207-08-9

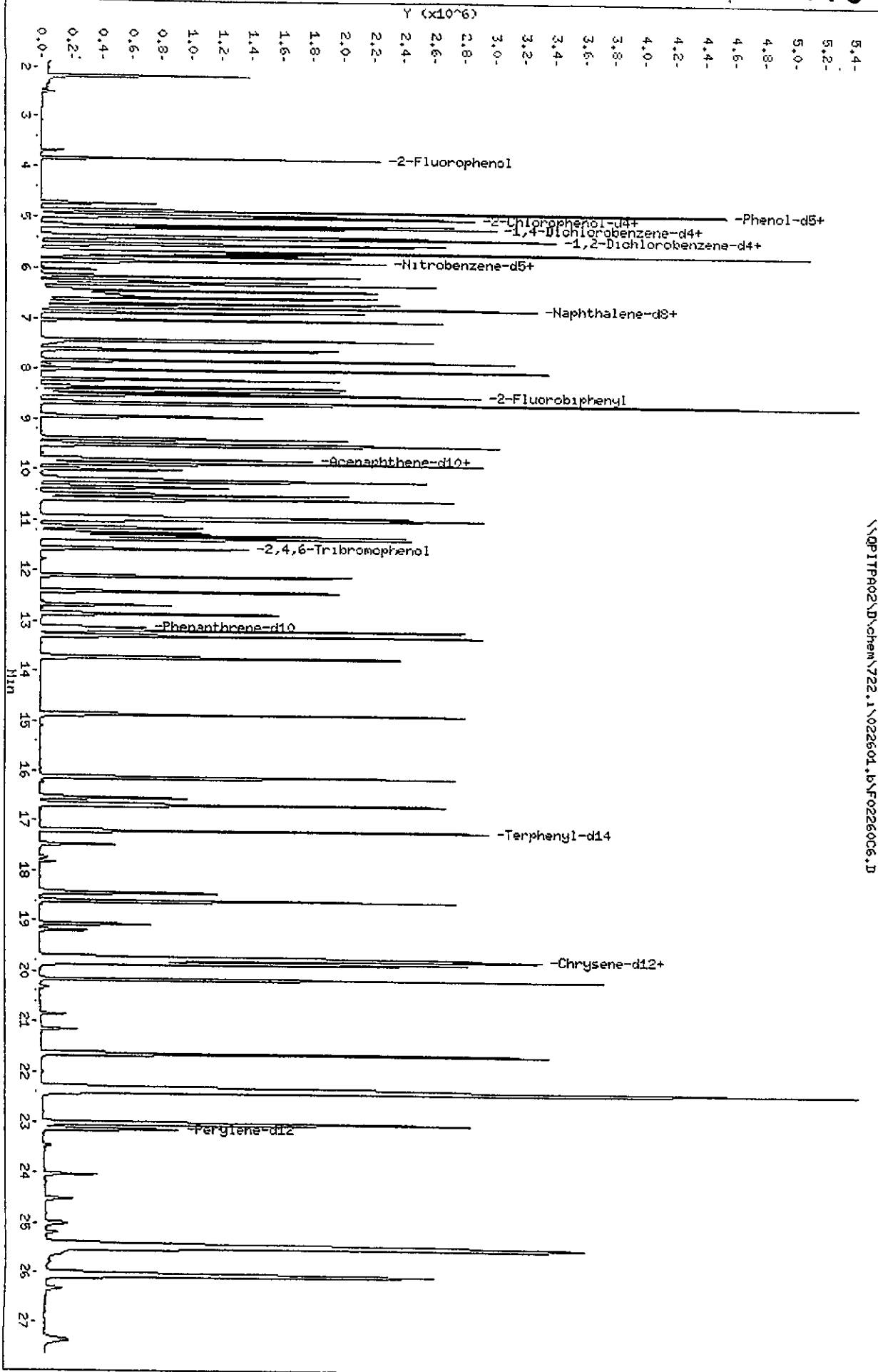
Report Date 02/26/2001



Manually Integrated By BungardF
Manual Integration Reason: Unknown

Data File: \\QPI1PA02\\chem\\722.1\\022601.b\\F0226006.D
Date : 26-FEB-2004 13:28
Client ID:
Sample Info: SSTJL60 (80ppb) 77-11-05
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 722.1
Operator: 007062
Column diameter: 0.25



678 218

Data File: \\QPITPA02\d\chem\722.i\022601.b\F02260C6.D
Report Date: 26-Feb-2001 14:01

Page 1

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\d\chem\722.i\022601.b\F02260C6.D
 Lab Smp Id: sstd160 Client Smp ID: SSTD160
 Inj Date : 26-FEB-2001 13:28
 Operator : 007062 Inst ID: 722.i
 Smp Info : SSTD160 (80ppb) 77-11-05
 Misc Info : sstd160,022601.b,8270b.m,2-root.sub,1,5
 Comment :
 Method : \\QPITPA02\D\chem\722.i\022601.b\8270b.m
 Meth Date : 26-Feb-2001 14:01 bungardf Quant Type: ISTD
 Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
 Als bottle: 28 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-root.sub
 Target Version: 4.04
 Processing Host: PITPC062

FB
2/26/01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5.180	5.180	(1.000)	157749	40.0000	
* 2 Naphthalene-d8	136	6.739	6.739	(1.000)	621862	40.0000	
* 3 Acenaphthene-d10	164	9.806	9.806	(1.000)	356497	40.0000	
* 4 Phenanthrene-d10	188	13.129	13.129	(1.000)	699518	40.0000	
* 5 Chrysene-d12	240	19.774	19.774	(1.000)	786917	40.0000	
* 6 Perylene-d12	264	23.129	23.129	(1.000)	857507	40.0000	
10 N-Nitrosodimethylamine	74	2.167	2.167	(0.418)	472146	160.000	154
9 Pyridine	79	2.151	2.151	(0.415)	761053	160.000	154
16 Methyl methanesulfonate	80	3.684	3.684	(0.711)	82800	160.000	164 (A)
21 Aniline	93	4.875	4.875	(0.941)	1074981	160.000	144
22 Phenol	94	4.875	4.875	(0.941)	1008689	160.000	147
23 bis(2-Chloroethyl)ether	93	4.950	4.950	(0.956)	796929	160.000	150
24 2-Chlorophenol	128	4.993	4.993	(0.964)	764898	160.000	152
26 1,3-Dichlorobenzene	146	5.142	5.142	(0.993)	848680	160.000	151
27 1,4-Dichlorobenzene	146	5.196	5.196	(1.003)	864966	160.000	151
28 1,2-Dichlorobenzene	146	5.404	5.404	(1.043)	801486	160.000	151
29 Benzyl Alcohol	108	5.367	5.367	(1.036)	612072	160.000	155
30 2-Methylphenol	108	5.516	5.516	(1.065)	707852	160.000	151
31 2,2'-oxybis(1-Chloropropane)	45	5.537	5.537	(1.069)	1360776	160.000	146
32 N-Nitroso-di-n-propylamine	70	5.708	5.708	(1.102)	665675	160.000	156
192 4-Methylphenol	108	5.682	5.682	(1.097)	756417	160.000	152
34 Hexachloroethane	117	5.756	5.756	(1.111)	347228	160.000	154
35 Nitrobenzene	77	5.874	5.874	(0.872)	958393	160.000	152
41 Isophorone	82	6.152	6.152	(0.913)	1532360	160.000	153
42 2-Nitrophenol	139	6.259	6.259	(0.929)	442995	160.000	157
43 2,4-Dimethylphenol	107	6.312	6.312	(0.937)	813394	160.000	154

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	=====	=====	=====	=====	=====	(NG)	(NG)
44 bis (2-Chloroethoxy)methane	93	6.440	6.440	(0.956)	943193	160.000	151
48 2,4-Dichlorophenol	162	6.568	6.568	(0.975)	632950	160.000	154
49 Benzoic Acid	122	6.536	6.536	(0.970)	498104	160.000	199 (A)
50 1,2,4-Trichlorobenzene	180	6.681	6.681	(0.991)	713530	160.000	154
51 Naphthalene	128	6.766	6.766	(1.004)	2172021	160.000	148
52 4-Chloroaniline	127	6.868	6.868	(1.019)	889439	160.000	150
56 Hexachlorobutadiene	225	7.017	7.017	(1.041)	472135	160.000	158
59 4-Chloro-3-Methylphenol	107	7.616	7.616	(1.130)	741657	160.000	157
62 2-Methylnaphthalene	142	7.819	7.819	(1.160)	1509995	160.000	152
205 1-Methylnaphthalene	142	8.006	8.006	(1.188)	1588254	160.000	153
64 Hexachlorocyclopentadiene	237	8.203	8.203	(0.837)	542628	160.000	169 (A)
66 2,4,6-Trichlorophenol	196	8.358	8.358	(0.852)	494027	160.000	159
67 2,4,5-Trichlorophenol	196	8.433	8.433	(0.860)	527562	160.000	160
70 2-Chloronaphthalene	162	8.679	8.679	(0.885)	1430021	160.000	155
73 2-Nitroaniline	65	8.946	8.946	(0.912)	586593	160.000	161 (A)
76 Dimethylphthalate	163	9.389	9.389	(0.958)	1708494	160.000	155
78 2,6-Dinitrotoluene	165	9.517	9.517	(0.971)	407508	160.000	161 (A)
79 Acenaphthylene	152	9.491	9.491	(0.968)	2156952	160.000	151
81 3-Nitroaniline	138	9.790	9.790	(0.998)	462471	160.000	160 (A)
82 Acenaphthene	153	9.875	9.875	(1.007)	1440717	160.000	153
83 2,4-Dinitrophenol	184	10.003	10.003	(1.020)	272973	160.000	208 (A)
85 4-Nitrophenol	109	10.180	10.180	(1.038)	296866	160.000	166 (A)
86 Dibenzofuran	168	10.217	10.217	(1.042)	2062394	160.000	152
87 2,4-Dinitrotoluene	165	10.345	10.345	(1.055)	570928	160.000	163 (A)
91 2,3,5,6-Tetrachlorophenol	232	10.490	10.490	(1.070)	554246	160.000	163 (A)
88 2,3,4,6-Tetrachlorophenol	232	10.596	10.596	(1.081)	530992	160.000	162 (A)
92 2-Naphthylamine	143	10.570	10.570	(1.078)	1137496	160.000	132
93 Diethylphthalate	149	10.933	10.933	(1.115)	1747345	160.000	155
94 Fluorene	166	10.970	10.970	(1.119)	1704997	160.000	152
95 4-Chlorophenyl-phenylether	204	11.002	11.002	(1.122)	866885	160.000	156
96 4-Nitroaniline	138	11.152	11.152	(1.137)	479250	160.000	161 (A)
98 4,6-Dinitro-2-methylphenol	198	11.243	11.243	(0.856)	361922	160.000	184 (A)
99 N-Nitrosodiphenylamine	169	11.302	11.302	(0.861)	1248741	160.000	145
100 1,2-Diphenylhydrazine	77	11.360	11.360	(0.865)	1990971	160.000	152
106 4-Bromophenyl-phenylether	248	12.114	12.114	(0.923)	524710	160.000	156
107 Hexachlorobenzene	284	12.423	12.423	(0.946)	543801	160.000	156
111 Pentachlorophenol	266	12.862	12.862	(0.980)	398040	160.000	165 (A)
115 Phenanthrene	178	13.193	13.193	(1.005)	2559683	160.000	151
116 Anthracene	178	13.300	13.300	(1.013)	2616154	160.000	151
119 Carbazole	167	13.738	13.738	(1.046)	2473750	160.000	153
120 Di-n-Butylphthalate	149	14.865	14.865	(1.132)	2986920	160.000	154
123 Fluoranthene	202	16.136	16.136	(1.229)	2927668	160.000	154
124 Benzidine	184	16.542	16.542	(0.837)	887027	160.000	135
125 Pyrene	202	16.676	16.676	(0.843)	2872087	160.000	149
131 Butylbenzylphthalate	149	18.610	18.610	(0.941)	1420815	160.000	158
135 3,3'-Dichlorobenzidine	252	19.780	19.780	(1.000)	1249534	160.000	158
136 Benzo (a) Anthracene	228	19.737	19.737	(0.998)	2966038	160.000	154

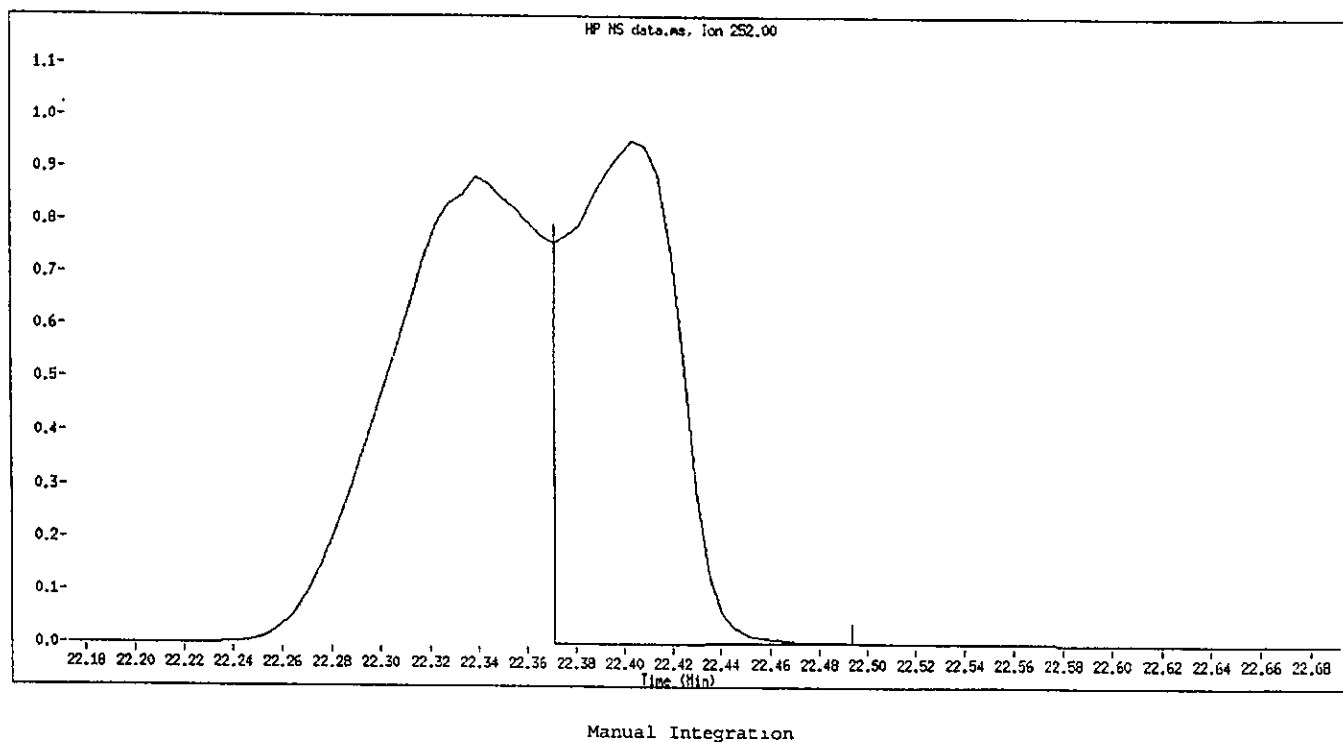
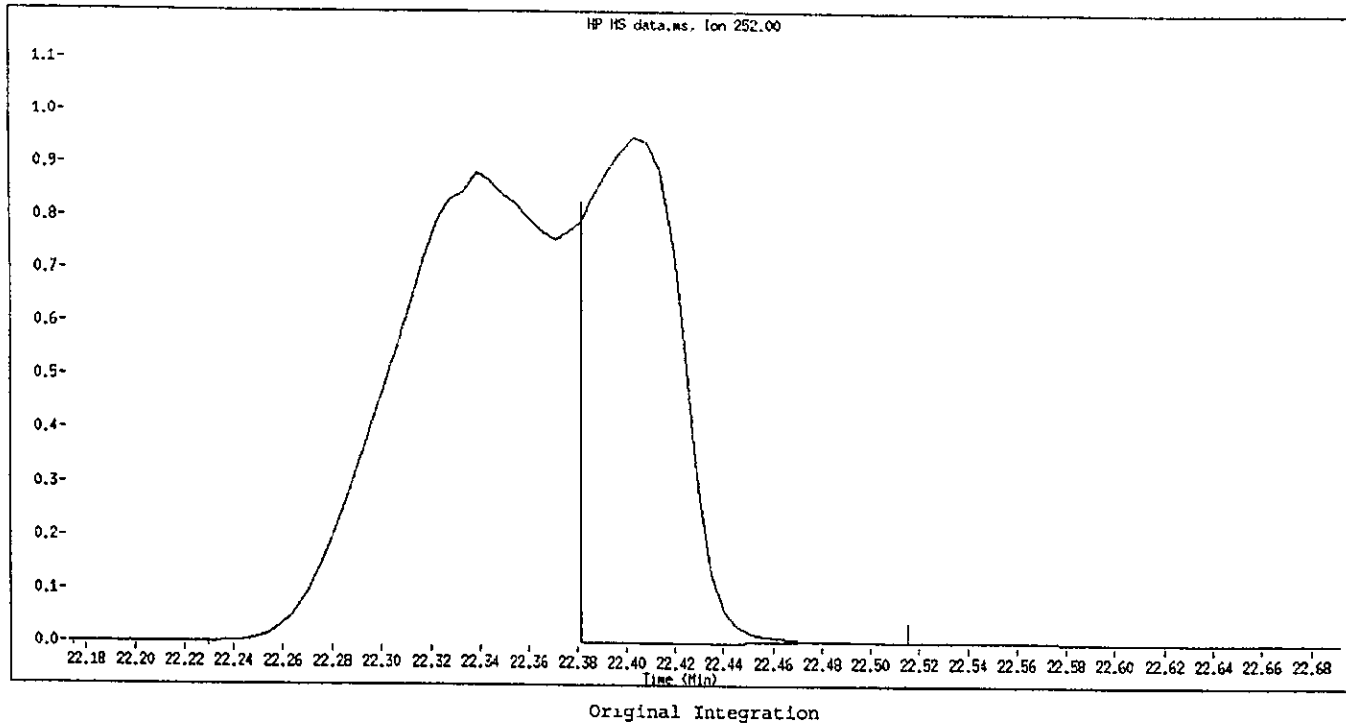
Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	=====	==	=====	=====	=====	(NG)	(NG)
137 Chrysene	228	19 849	19 849	(1 004)	2768687	160 000	153
139 bis(2-ethylhexyl)Phthalate	149	20 175	20 175	(1 020)	1983992	160.000	157
140 Di-n-octylphthalate	149	21 644	21 644	(0.936)	3371189	160 000	153
141 Benzo(b)fluoranthene	252	22.338	22 338	(0 966)	3906188	160 000	175 (A)
142 Benzo(k)fluoranthene	252	22 403	22 403	(0 969)	3055594	160 000	133 (M)
143 7,12-dimethylbenz[a]anthracen	256	22 397	22 397	(0 968)	1862271	160 000	163 (A)
146 Benzo(a)pyrene	252	23 028	23 028	(0 996)	3308324	160 000	153
149 Indeno(1,2,3-cd)pyrene	276	25 458	25 458	(1 101)	5134111	160 000	154
150 Dibenzo(a,h)anthracene	278	25.506	25.506	(1.103)	4211488	160 000	154
151 Benzo(g,h,i)perylene	276	26 073	26.073	(1 127)	4536388	160 000	153
\$ 154 Nitrobenzene-d5	82	5 853	5 853	(0 868)	918797	160.000	154
\$ 155 2-Fluorobiphenyl	172	8.502	8 502	(0.867)	1586225	160.000	152
\$ 156 Terphenyl-d14	244	17.199	17 199	(0 870)	2368865	160 000	154
\$ 157 Phenol-d5	99	4 864	4 864	(0.939)	1032308	160 000	152
\$ 158 2-Fluorophenol	112	3.839	3 839	(0.741)	790682	160.000	154
\$ 159 2,4,6-Tribromophenol	330	11.563	11 563	(0.881)	291119	160 000	162 (A)
\$ 186 2-Chlorophenol-d4	132	4 977	4 977	(0.961)	779636	160 000	153
\$ 187 1,2-Dichlorobenzene-d4	152	5.393	5.393	(1 041)	500757	160 000	152

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File Name F02260C6 D
Inj. Date and Time 26-FEB-2001 13 28
Instrument ID 722 1
Client ID SSTD160
Compound Name Benzo(k)fluoranthene
CAS # 207-08-9
Report Date 02/26/2001

678 221



Manually Integrated By BungardF
Manual Integration Reason Unknown

678 222

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Instrument ID: 722

Calibration Date: 03/21/01 Time: 1203

Lab File ID: F03210C2

Init. Calib. Date(s): 02/26/01 02/26/01

Init. Calib. Times: 1104 1328

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.734	1.738	0.01	0.2	20.0
bis(2-Chloroethyl) ether	1.345	1.325	0.01	1.5	50.0
2-Chlorophenol	1.274	1.298	0.01	1.9	50.0
1,3-Dichlorobenzene	1.428	1.468	0.01	2.8	50.0
1,4-Dichlorobenzene	1.453	1.516	0.01	4.3	20.0
1,2-Dichlorobenzene	1.344	1.394	0.01	3.7	50.0
2-Methylphenol	1.188	1.165	0.01	1.9	50.0
2,2'-oxybis(1-Chloropropane)	2.366	2.248	0.01	5.0	50.0
4-Methylphenol	1.262	1.215	0.01	3.7	50.0
Hexachloroethane	0.573	0.579	0.01	1.0	50.0
Nitrobenzene	0.404	0.401	0.01	0.7	50.0
Isophorone	0.644	0.605	0.01	6.0	50.0
2-Nitrophenol	0.181	0.186	0.01	2.8	20.0
2,4-Dimethylphenol	0.341	0.331	0.01	2.9	50.0
bis(2-Chloroethoxy)methane	0.401	0.392	0.01	2.2	50.0
N-Nitroso-di-n-propylamine	1.080	0.962	0.05	10.9	50.0
2,4-Dichlorophenol	0.265	0.269	0.01	1.5	20.0
1,2,4-Trichlorobenzene	0.297	0.310	0.01	4.4	50.0
Naphthalene	0.947	0.983	0.01	3.8	50.0
4-Chloroaniline	0.381	0.365	0.01	4.2	50.0
Hexachlorobutadiene	0.192	0.192	0.01	0.0	20.0
4-Chloro-3-Methylphenol	0.304	0.262	0.01	13.8	20.0
2-Methylnaphthalene	0.639	0.634	0.01	0.8	50.0
Hexachlorocyclopentadiene	0.359	0.339	0.05	5.6	50.0
2,4,6-Trichlorophenol	0.349	0.355	0.01	1.7	20.0
2,4,5-Trichlorophenol	0.371	0.374	0.01	0.8	50.0
2-Chloronaphthalene	1.036	1.150	0.01	11.0	50.0
2-Nitroaniline	0.408	0.373	0.01	8.6	50.0
Dimethylphthalate	1.233	1.175	0.01	4.7	50.0
Acenaphthylene	1.597	1.645	0.01	3.0	50.0
2,6-Dinitrotoluene	0.284	0.270	0.01	4.9	50.0
3-Nitroaniline	0.324	0.298	0.01	8.0	50.0
Acenaphthene	1.053	1.078	0.01	2.4	20.0
2,4-Dinitrophenol	0.147	0.137	0.05	6.8	50.0
4-Nitrophenol	0.200	0.158	0.05	21.0	50.0
Dibenzofuran	1.517	1.536	0.01	1.2	50.0
2,4-Dinitrotoluene	0.392	0.349	0.01	11.0	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

678 223

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

C1C150304

Instrument ID: 722

Calibration Date: 03/21/01 Time: 1203

Lab File ID: F03210C2

Init. Calib. Date(s): 02/26/01 02/26/01

Init. Calib. Times: 1104 1328

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.262	1.140	0.01	9.7	50.0
4-Chlorophenyl-phenylether	0.622	0.602	0.01	3.2	50.0
Fluorene	1.256	1.224	0.01	2.5	50.0
4-Nitroaniline	0.334	0.282	0.01	15.6	50.0
4,6-Dinitro-2-methylphenol	0.112	0.123	0.01	9.8	50.0
N-Nitrosodiphenylamine	0.493	0.559	0.01	13.4	20.0
4-Bromophenyl-phenylether	0.192	0.201	0.01	4.7	50.0
Hexachlorobenzene	0.199	0.202	0.01	1.5	50.0
Pentachlorophenol	0.138	0.116	0.05	15.9	20.0
Phenanthrene	0.971	1.004	0.01	3.4	50.0
Anthracene	0.993	1.020	0.01	2.7	50.0
Carbazole	0.925	0.904	0.01	2.3	50.0
Di-n-Butylphthalate	1.111	1.090	0.01	1.9	50.0
Fluoranthene	1.084	1.048	0.01	3.3	20.0
Pyrene	0.982	0.983	0.01	0.1	50.0
Butylbenzylphthalate	0.457	0.464	0.01	1.5	50.0
3,3'-Dichlorobenzidine	0.402	0.412	0.01	2.5	50.0
Benzo(a) Anthracene	0.976	0.980	0.01	0.4	50.0
Chrysene	0.920	0.923	0.01	0.3	50.0
bis(2-ethylhexyl) Phthalate	0.641	0.641	0.01	0.0	50.0
Di-n-octylphthalate	1.027	1.232	0.01	20.0	20.0
Benzo(b) fluoranthene	1.041	1.130	0.01	8.5	50.0
Benzo(k) fluoranthene	1.069	1.230	0.01	15.1	50.0
Benzo(a) pyrene	1.009	1.048	0.01	3.9	20.0
Indeno(1,2,3-cd) pyrene	1.551	1.283	0.01	17.3	50.0
Dibenz(a,h) anthracene	1.273	1.076	0.01	15.5	50.0
Benzo(g,h,i) perylene	1.386	1.085	0.01	21.7	50.0
Pyridine	1.254	1.240	0.01	1.1	50.0
N-Nitrosodimethylamine	0.778	0.774	0.01	0.5	50.0
Aniline	1.896	1.918	0.01	1.2	50.0
Benzyl Alcohol	1.002	0.998	0.01	0.4	50.0
Benzoic Acid	0.161	0.178	0.01	10.6	50.0
2,3,4,6-Tetrachlorophenol	0.367	0.323	0.01	12.0	50.0
2,3,5,6-Tetrachlorophenol	0.381	0.335	0.01	12.1	50.0
1,2-Diphenylhydrazine	0.749	0.816	0.01	8.9	50.0
Benzidine	0.334	0.355	0.01	6.3	50.0
Methyl methanesulfonate	0.128	0.070	0.01	45.3	50.0

678 224

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

CIC150304

Instrument ID: 722

Calibration Date: 03/21/01 Time: 1203

Lab File ID: F03210C2

Init. Calib. Date(s): 02/26/01 02/26/01

Init. Calib. Times: 1104 1328

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
2-Naphthylamine	0.963	0.921	0.01	4.4	50.0
7,12-dimethylbenz[a]anthrace	0.533	0.633	0.01	18.8	50.0
1-Methylnaphthalene	0.667	0.659	0.01	1.2	50.0
=====	=====	=====	=====	=====	=====
Nitrobenzene-d5	0.383	0.375	0.01	2.1	50.0
2-Fluorobiphenyl	1.169	1.264	0.01	8.1	50.0
Terphenyl-d14	0.780	0.764	0.01	2.0	50.0
Phenol-d5	1.720	1.714	0.01	0.3	50.0
2-Fluorophenol	1.302	1.360	0.01	4.4	50.0
2,4,6-Tribromophenol	0.103	0.102	0.01	1.0	50.0
2-Chlorophenol-d4	1.292	1.338	0.01	3.6	50.0
1,2-Dichlorobenzene-d4	0.833	0.848	0.01	1.8	50.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 722.i
Lab File ID: F03210C2.D
Analysis Type: NONE

Injection Date: 21-MAR-2001 12:03
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\032101.b\

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
66 Pyridine	50.0000	49.4517	1.1	50.0
67 N-Nitrosodimethylamine	50.0000	49.7432	0.5	50.0
87 Methyl methanesulfonate	50.0000	27.1819	45.6	50.0
185 2-Fluorophenol	50.0000	52.2092	4.4	50.0
68 Aniline	50.0000	50.5783	1.2	50.0
184 Phenol-d5	50.0000	49.8445	0.3	50.0
1 Phenol	50.0000	50.0965	0.2	20.0
2 bis(2-Chloroethyl)ether	50.0000	49.2372	1.5	50.0
187 2-Chlorophenol-d4	50.0000	51.7916	3.6	50.0
3 2-Chlorophenol	50.0000	50.9341	1.9	50.0
4 1,3-Dichlorobenzene	50.0000	51.3822	2.8	50.0
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0
5 1,4-Dichlorobenzene	50.0000	52.1605	4.3	20.0
69 Benzyl Alcohol	50.0000	49.7709	0.5	50.0
188 1,2-Dichlorobenzene-d4	50.0000	50.8795	1.8	50.0
6 1,2-Dichlorobenzene	50.0000	51.8264	3.7	50.0
7 2-Methylphenol	50.0000	49.0484	1.9	50.0
8 2,2'-oxybis(1-Chloropropane)	50.0000	47.5051	5.0	50.0
9 4-Methylphenol	50.0000	48.1559	3.7	50.0
18 N-Nitroso-di-n-propylamine	50.0000	44.5689	10.9	50.0
12 Hexachloroethane	50.0000	50.5111	1.0	50.0
181 Nitrobenzene-d5	50.0000	49.0387	1.9	50.0
13 Nitrobenzene	50.0000	49.6147	0.8	50.0
14 Isophorone	50.0000	46.9802	6.0	50.0
15 2-Nitrophenol	50.0000	51.2688	2.5	20.0
16 2,4-Dimethylphenol	50.0000	48.5365	2.9	50.0
17 bis(2-Chloroethoxy)methane	50.0000	48.9726	2.1	50.0
71 Benzoic Acid	50.0000	55.3624	10.7	50.0
18 2,4-Dichlorophenol	50.0000	50.7133	1.4	20.0
19 1,2,4-Trichlorobenzene	50.0000	52.1332	4.3	50.0
32 Naphthalene-d8	40.0000	40.0000	0.0	50.0
20 Naphthalene	50.0000	51.9095	3.8	50.0
21 4-Chloroaniline	50.0000	47.8443	4.3	50.0
22 Hexachlorobutadiene	50.0000	49.9802	0.0	20.0
23 4-Chloro-3-Methylphenol	50.0000	43.1036	13.8	20.0
24 2-Methylnaphthalene	50.0000	49.6451	0.7	50.0
205 1-Methylnaphthalene	50.0000	49.3946	1.2	50.0
25 Hexachlorocyclopentadiene	50.0000	47.1416	5.7	50.0
26 2,4,6-Trichlorophenol	50.0000	50.9223	1.8	20.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 722.i
Lab File ID: F03210C2.D
Analysis Type: NONE

Injection Date: 21-MAR-2001 12:03
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\032101.b\

COMPOUND	EXPECTED CONC	MEASURED CONC	%D	MAX %D
27 2,4,5-Trichlorophenol	50.0000	50.3765	0.8	50.0
182 2-Fluorobiphenyl	50.0000	54.1025	8.2	50.0
28 2-Chloronaphthalene	50.0000	55.5243	11.0	50.0
29 2-Nitroaniline	50.0000	45.7436	8.5	50.0
30 Dimethylphthalate	50.0000	47.6422	4.7	50.0
31 Acenaphthylene	50.0000	51.4880	3.0	50.0
32 2,6-Dinitrotoluene	50.0000	47.6231	4.8	50.0
33 3-Nitroaniline	50.0000	46.0400	7.9	50.0
52 Acenaphthene-d10	40.0000	40.0000	0.0	50.0
34 Acenaphthene	50.0000	51.1675	2.3	20.0
35 2,4-Dinitrophenol	50.0000	46.6527	6.7	50.0
37 Dibenzofuran	50.0000	50.6169	1.2	50.0
36 4-Nitrophenol	50.0000	39.5628	20.9	50.0
38 2,4-Dinitrotoluene	50.0000	44.4959	11.0	50.0
77 2,3,5,6-Tetrachlorophenol	50.0000	43.9704	12.1	50.0
114 2-Naphthylamine	50.0000	47.8388	4.3	50.0
76 2,3,4,6-Tetrachlorophenol	50.0000	44.0087	12.0	50.0
39 Diethylphthalate	50.0000	45.1672	9.7	50.0
41 Fluorene	50.0000	48.7089	2.6	50.0
40 4-Chlorophenyl-phenylether	50.0000	48.4372	3.1	50.0
42 4-Nitroaniline	50.0000	42.2761	15.4	50.0
43 4,6-Dinitro-2-methylphenol	50.0000	54.9887	10.0	50.0
44 N-Nitrosodiphenylamine	50.0000	56.6784	13.4	20.0
78 1,2-Diphenylhydrazine	50.0000	54.4550	8.9	50.0
186 2,4,6-Tribromophenol	50.0000	49.4458	1.1	50.0
45 4-Bromophenyl-phenylether	50.0000	52.3785	4.8	50.0
46 Hexachlorobenzene	50.0000	50.8482	1.7	50.0
47 Pentachlorophenol	50.0000	42.0697	15.9	20.0
78 Phenanthrene-d10	40.0000	40.0000	0.0	50.0
48 Phenanthrene	50.0000	51.7115	3.4	50.0
49 Anthracene	50.0000	51.3987	2.8	50.0
50 Carbazole	50.0000	48.8894	2.2	50.0
51 Di-n-Butylphthalate	50.0000	49.0388	1.9	50.0
52 Fluoranthene	50.0000	48.2946	3.4	20.0
79 Benzidine	50.0000	53.1764	6.4	50.0
53 Pyrene	50.0000	50.0538	0.1	50.0
183 Terphenyl-d14	50.0000	48.9903	2.0	50.0
54 Butylbenzylphthalate	50.0000	50.7996	1.6	50.0
56 Benzo(a)Anthracene	50.0000	50.1887	0.4	50.0

Data File: \\qpitpa02\d\chem\722.i\032101.b\F03210C2.D
Report Date: 03/21/2001

678 227

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 722.i
Lab File ID: F03210C2.D
Analysis Type: NONE

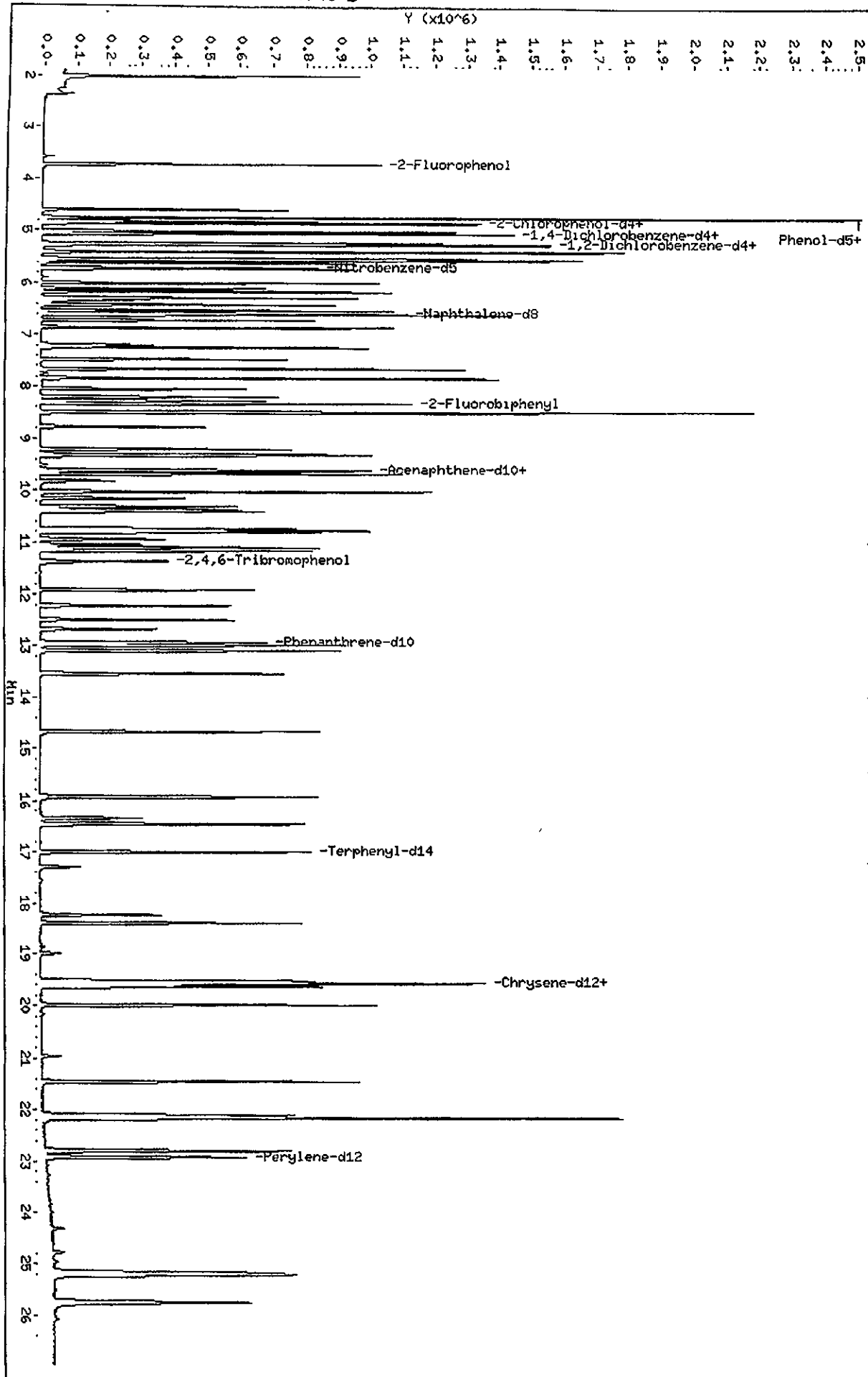
Injection Date: 21-MAR-2001 12:03
Lab Sample ID: sstd050
Method File: \\QPITPA02\D\chem\722.i\032101.b\

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	51.2662	2.5	50.0
57 Chrysene	50.0000	50.1320	0.3	50.0
58 bis(2-ethylhexyl)Phthalate	50.0000	50.0034	0.0	50.0
59 Di-n-octylphthalate	50.0000	59.9821	20.0	20.0
60 Benzo(b)fluoranthene	50.0000	54.3044	8.6	50.0
61 Benzo(k)fluoranthene	50.0000	57.5589	15.1	50.0
143 7,12-dimethylbenz(a)anthracen	50.0000	59.3195	18.6	50.0
62 Benzo(a)pyrene	50.0000	51.9408	3.9	20.0
101 Perylene-d12	40.0000	40.0000	0.0	50.0
63 Indeno(1,2,3-cd)pyrene	50.0000	41.3630	17.3	50.0
64 Dibenz(a,h)anthracene	50.0000	42.2458	15.5	50.0
65 Benzo(g,h,i)perylene	50.0000	39.1383	21.7	50.0

Data File: \\QPI7P02\\D\\chem\\722.1\\032101.b\\F03210C2.D
Date: 21-MAR-2001 12:03
Client ID:
Sample Info: SST050 (25ppb) 77-15-13
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 722.i
Operator: 007062
Column diameter: 0.25

\\QPI7P02\\D\\chem\\722.1\\032101.b\\F03210C2.D



678 229

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\gpitpa02\d\chem\722.i\032101.b\F03210C2.D
Lab Smp Id: sstd050 Client Smp ID: SSTD050
Inj Date : 21-MAR-2001 12:03
Operator : 007062 Inst ID: 722.i
Smp Info : SSTD050 (25ppb) 77-15-13
Misc Info : sstd050,032101.b,8270b.m,2-root.sub,2,2
Comment :
Method : \\QPITPA02\D\chem\722.i\032101.b\8270b.m
Meth Date : 21-Mar-2001 12:38 BungardF Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

3/11/01

Compounds	QUANT SIG	AMOUNTS					
		CAL-AMT	ON-COL				
		(NG)	(NG)				
*****	----	-----	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5 060	5 060 (1 000)	202244	40 0000		
* 2 Naphthalene-d8	136	6.598	6.598 (1.000)	742404	40.0000		
* 3 Acenaphthene-d10	164	9.627	9.627 (1.000)	374869	40.0000		
* 4 Phenanthrene-d10	188	12.934	12 934 (1.000)	613392	40.0000		
* 5 Chrysene-d12	240	19 569	19 569 (1.000)	655707	40.0000		
* 6 Perylene-d12	264	22 924	22 924 (1 000)	587608	40.0000		
10 N-Nitrosodimethylamine	74	2 004	2 004 (0.396)	195660	50.0000	49 7	
9 Pyridine	79	1.999	1.999 (0.395)	313508	50.0000	49.4	
16 Methyl methanesulfonate	80	3.575	3.575 (0.707)	17594	50.0000	27.2	
21 Aniline	93	4.761	4.761 (0.941)	484941	50.0000	50 6	
22 Phenol	94	4.771	4.771 (0.943)	439274	50 0000	50 1	
23 bis(2-Chloroethyl)ether	93	4.830	4 830 (0 955)	334885	50.0000	49.2	
24 2-Chlorophenol	128	4 878	4.878 (0 964)	328241	50 0000	50.9	
26 1,3-Dichlorobenzene	146	5 017	5 017 (0.992)	371034	50.0000	51.4	
27 1,4-Dichlorobenzene	146	5 076	5.076 (1.003)	383281	50 0000	52.2	
28 1,2-Dichlorobenzene	146	5.284	5.284 (1 044)	352294	50 0000	51.8	
29 Benzyl Alcohol	108	5.247	5.247 (1 037)	252251	50 0000	49.8	
30 2-Methylphenol	108	5.402	5 402 (1 068)	294459	50 0000	49 0	
31 2,2'-oxybis(1-Chloropropane)	45	5.413	5.413 (1 070)	568310	50 0000	47 5	
32 N-Nitroso-di-n-propylamine	70	5.573	5.573 (1.101)	243319	50 0000	44.6	
192 4-Methylphenol	108	5.562	5.562 (1.099)	307226	50 0000	48.2	
34 Hexachloroethane	117	5.626	5 626 (1.112)	146316	50.0000	50.5	
35 Nitrobenzene	77	5.738	5.738 (0.870)	372284	50.0000	49.6	
41 Isophorone	82	6 016	6 016 (0 912)	561906	50 0000	47 0	
42 2-Nitrophenol	139	6 128	6.128 (0 929)	172574	50 0000	51 3	
43 2,4-Dimethylphenol	107	6.187	6.187 (0.938)	306961	50 0000	48 5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (NG)	ON-COL (NG)
44 bis(2-Chloroethoxy)methane	93	6.305	6.305	(0.955)	364126	50.0000	49.0
48 2,4-Dichlorophenol	162	6.438	6.438	(0.976)	249305	50.0000	50.7
49 Benzoic Acid	122	6.358	6.358	(0.964)	165191	50.0000	55.4
50 1,2,4-Trichlorobenzene	180	6.540	6.540	(0.991)	287505	50.0000	52.1
51 Naphthalene	128	6.625	6.625	(1.004)	912219	50.0000	51.9
52 4-Chloroaniline	127	6.732	6.732	(1.020)	338616	50.0000	47.8
56 Hexachlorobutadiene	225	6.876	6.876	(1.042)	178157	50.0000	50.0
59 4-Chloro-3-Methylphenol	107	7.475	7.475	(1.133)	243341	50.0000	43.1
62 2-Methylnaphthalene	142	7.662	7.662	(1.161)	588848	50.0000	49.6
205 1-Methylnaphthalene	142	7.843	7.843	(1.189)	611524	50.0000	49.4
64 Hexachlorocyclopentadiene	237	8.046	8.046	(0.836)	158713	50.0000	47.1
66 2,4,6-Trichlorophenol	196	8.201	8.201	(0.852)	166409	50.0000	50.9
67 2,4,5-Trichlorophenol	196	8.281	8.281	(0.860)	175203	50.0000	50.4
70 2-Chloronaphthalene	162	8.506	8.506	(0.883)	538931	50.0000	55.5
73 2-Nitroaniline	65	8.778	8.778	(0.912)	174764	50.0000	45.7
76 Dimethylphthalate	163	9.211	9.211	(0.957)	550509	50.0000	47.6
78 2,6-Dinitrotoluene	165	9.339	9.339	(0.970)	126551	50.0000	47.6
79 Acenaphthylene	152	9.318	9.318	(0.968)	770880	50.0000	51.5
81 3-Nitroaniline	138	9.611	9.611	(0.998)	139813	50.0000	46.0
82 Acenaphthene	153	9.692	9.692	(1.007)	505176	50.0000	51.2
83 2,4-Dinitrophenol	184	9.825	9.825	(1.021)	64269	50.0000	46.6
85 4-Nitrophenol	109	10.033	10.033	(1.042)	74237	50.0000	39.6
86 Dibenzofuran	168	10.028	10.028	(1.042)	719783	50.0000	50.6
87 2,4-Dinitrotoluene	165	10.156	10.156	(1.055)	163594	50.0000	44.5
91 2,3,5,6-Tetrachlorophenol	232	10.317	10.317	(1.072)	156818	50.0000	44.0
88 2,3,4,6-Tetrachlorophenol	232	10.413	10.413	(1.082)	151470	50.0000	44.0
92 2-Naphthylamine	143	10.381	10.381	(1.078)	431649	50.0000	47.8
93 Diethylphthalate	149	10.744	10.744	(1.116)	534350	50.0000	45.2
94 Fluorene	166	10.781	10.781	(1.120)	573464	50.0000	48.7
95 4-Chlorophenyl-phenylether	204	10.819	10.819	(1.124)	282230	50.0000	48.4
96 4-Nitroaniline	138	10.947	10.947	(1.137)	132205	50.0000	42.3
98 4,6-Dinitro-2-methylphenol	198	11.048	11.048	(0.854)	94592	50.0000	55.0
99 N-Nitrosodiphenylamine	169	11.113	11.113	(0.859)	428976	50.0000	56.7
100 1,2-Diphenylhydrazine	77	11.166	11.166	(0.863)	625442	50.0000	54.4
106 4-Bromophenyl-phenylether	248	11.925	11.925	(0.922)	154314	50.0000	52.4
107 Hexachlorobenzene	284	12.229	12.229	(0.945)	155250	50.0000	50.8
111 Pentachlorophenol	266	12.678	12.678	(0.980)	88934	50.0000	42.1
115 Phenanthrene	178	12.988	12.988	(1.004)	770253	50.0000	51.7
116 Anthracene	178	13.095	13.095	(1.012)	782301	50.0000	51.4
119 Carbazole	167	13.543	13.543	(1.047)	693301	50.0000	48.9
120 Di-n-Butylphthalate	149	14.676	14.676	(1.135)	835939	50.0000	49.0
123 Fluoranthene	202	15.926	15.926	(1.231)	803169	50.0000	48.3
124 Benzidine	184	16.353	16.353	(0.836)	291141	50.0000	53.2
125 Pyrene	202	16.471	16.471	(0.842)	806049	50.0000	50.0
131 Butylbenzylphthalate	149	18.415	18.415	(0.941)	380375	50.0000	50.8
135 3,3'-Dichlorobenzidine	252	19.580	19.580	(1.001)	337539	50.0000	51.3
136 Benzo(a)Anthracene	228	19.526	19.526	(0.998)	802864	50.0000	50.2

678 231

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
							(NG)	(NG)
-----	----	----	----	-----	-----	-----	-----	-----
137 Chrysene		228	19.633	19.633 (1.003)		756334	50.0000	50.1
139 bis(2-ethylhexyl)Phthalate		149	19.986	19.986 (1.021)		525665	50.0000	50.0
140 Di-n-octylphthalate		149	21.455	21.455 (0.936)		905284	50.0000	60.0
141 Benzo(b)fluoranthene		252	22.112	22.112 (0.965)		830305	50.0000	54.3
142 Benzo(k)fluoranthene		252	22.171	22.171 (0.967)		903860	50.0000	57.6
143 7,12-dimethylbenz[a]anthracen		256	22.171	22.171 (0.967)		464901	50.0000	59.3
146 Benzo(a)pyrene		252	22.807	22.807 (0.995)		769795	50.0000	51.9
149 Indeno(1,2,3-cd)pyrene		276	25.173	25.173 (1.098)		942473	50.0000	41.4
150 Dibenz(a,h)anthracene		278	25.221	25.221 (1.100)		790176	50.0000	42.2
151 Benzo(g,h,i)perylene		276	25.755	25.755 (1.123)		796861	50.0000	39.1
\$ 154 Nitrobenzene-d5		82	5.717	5.717 (0.866)		348275	50.0000	49.0
\$ 155 2-Fluorobiphenyl		172	8.335	8.335 (0.866)		592551	50.0000	54.1
\$ 156 Terphenyl-d14		244	17.000	17.000 (0.869)		626691	50.0000	49.0
\$ 157 Phenol-d5		99	4.761	4.761 (0.941)		433415	50.0000	49.8
\$ 158 2-Fluorophenol		112	3.735	3.735 (0.738)		343744	50.0000	52.2
\$ 159 2,4,6-Tribromophenol		330	11.374	11.374 (0.879)		78075	50.0000	49.4
\$ 186 2-Chlorophenol-d4		132	4.862	4.862 (0.961)		338255	50.0000	51.8
\$ 187 1,2-Dichlorobenzene-d4		152	5.268	5.268 (1.041)		214324	50.0000	50.9

678 232

GC/MS SEMIVOLATILE
QC DATA

Date : 26-FEB-2001 10:46

Client ID: DFTPP02

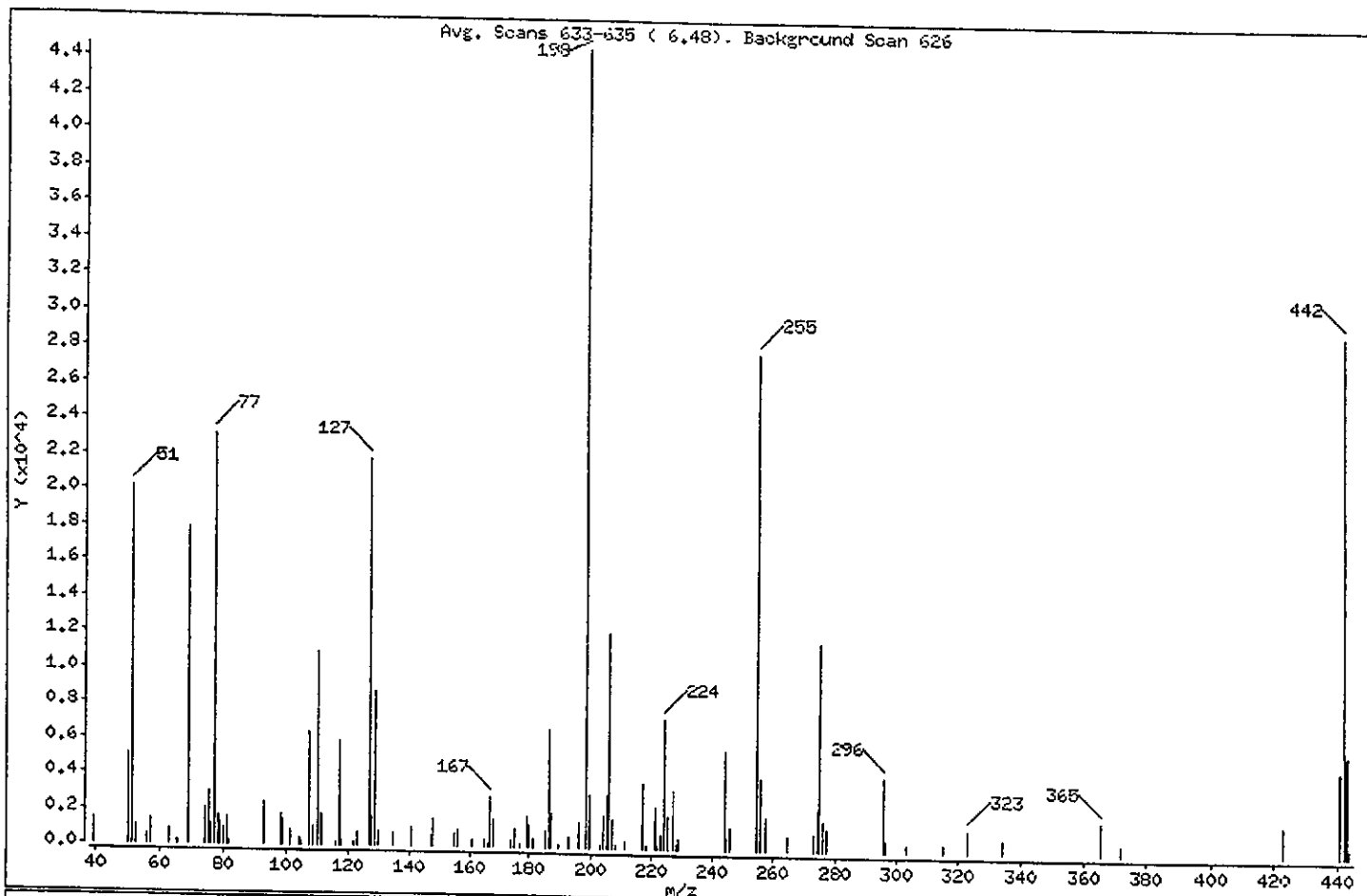
Instrument: 722.i

Sample Info: DFTPP050 (25ppb) 77/06/09

Column phase:
1 dftpp

Operator: 007062

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.04
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.05
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	26.09
365	Greater than 1.00% of mass 198	3.79
441	Present, but less than mass 443	10.57
442	40.00 - 100.00% of mass 198	65.60
443	17.00 - 23.00% of mass 442	12.63 (19.25)

Data File: \\QPI1P002\N\chem\722.1\022601.b\F02260F2.D
Date: 26-FEB-2001 10:46
Client ID: DFTPP02
Sample Info: DFTPP050 (25ppb) 77/06/09

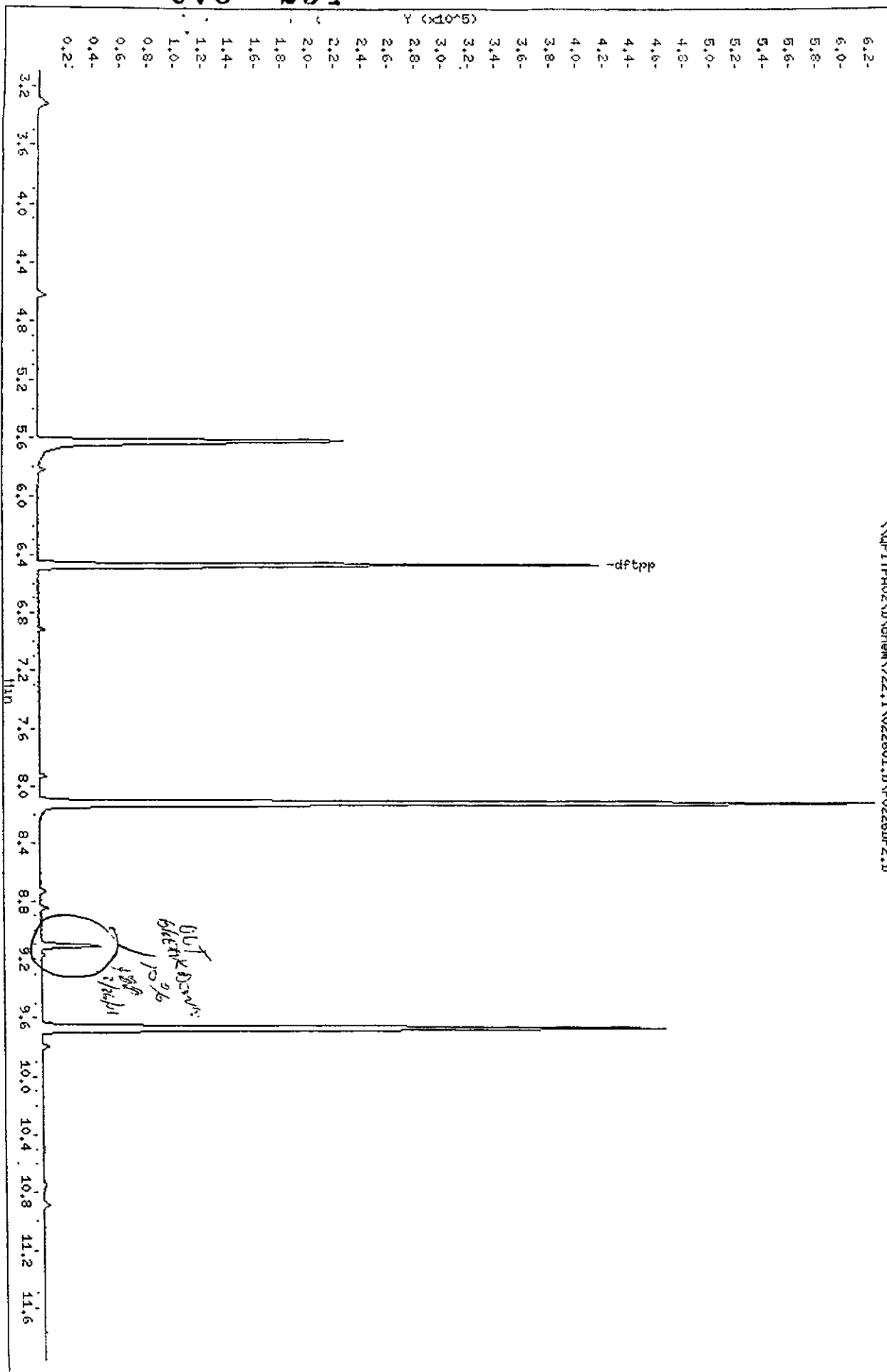
Instrument: 722.1

Operator: 007062

Column diameter: 2.00

Column phase:

\\QPI1P002\N\chem\722.1\022601.b\F02260F2.D



Data File: \\QPITPA02\ID\chem\722.1\02C601.b\F0226DF2.D

Date : 26-FEB-2001 10:46

Client ID: DFTPP02

Sample Info: DFTPP050 (25ppb) 77/06/09

Instrument: 722.1

Operator: 007062

Column phase:

Column diameter: 2.00

678 Page 4
235

Data File: F0226DF2.D

Spectrum: Avg, Scans 633-635 (6.48), Background Scan 626

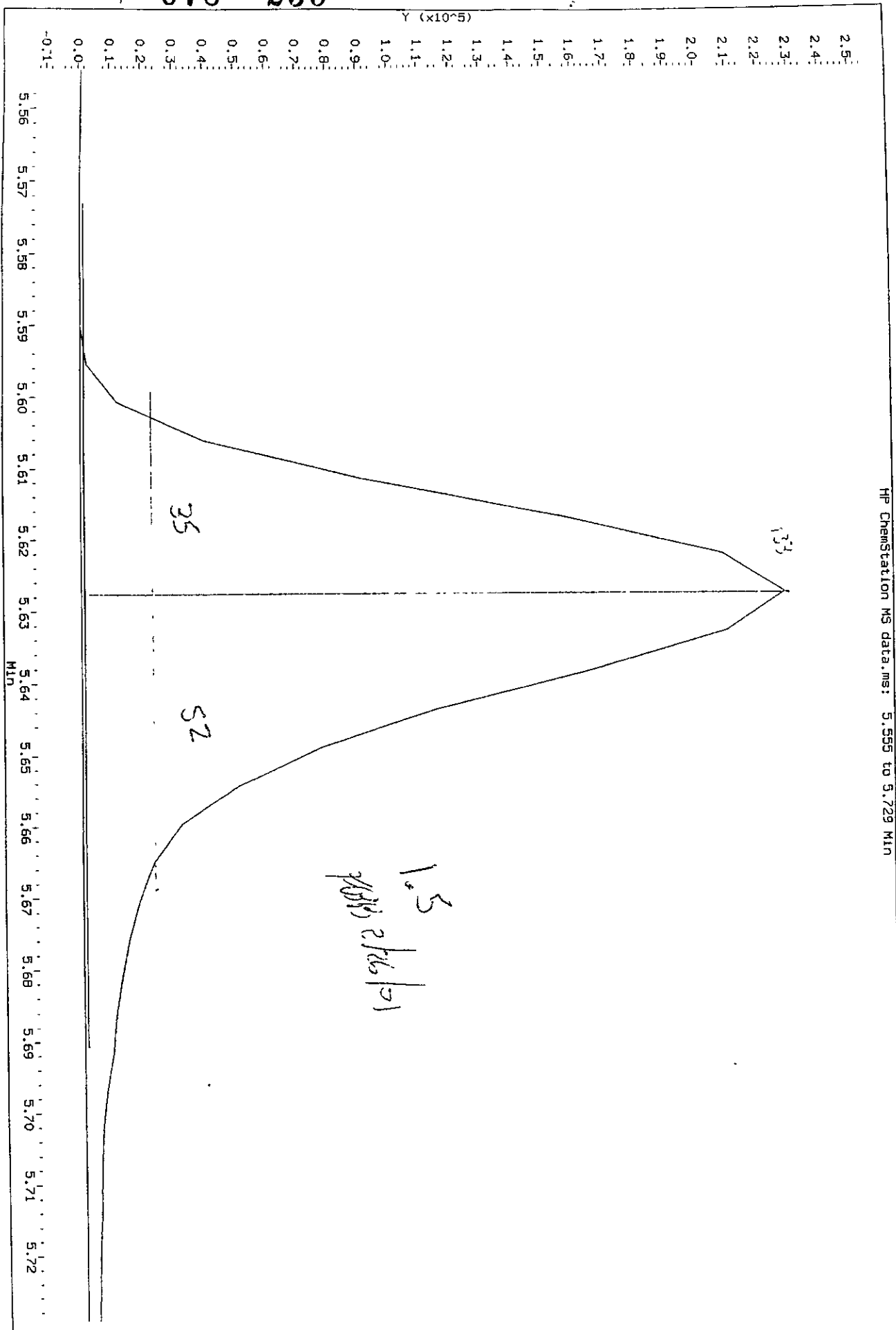
Location of Maximum: 198.00

Number of points: 105

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1483	111.00	1732	185.00	919	245.00	763
50.00	5005	116.00	175	186.00	6617	246.00	1265
51.00	20104	117.00	5816	187.00	1916	255.00	27856
52.00	1064	118.00	345	189.00	182	256.00	4025
56.00	477	122.00	184	192.00	652	258.00	1898
57.00	1414	123.00	741	193.00	629	265.00	795
63.00	827	127.00	21720	196.00	1404	273.00	892
65.00	210	128.00	1647	198.00	44632	274.00	2281
69.00	17872	129.00	8728	199.00	2930	275.00	11647
74.00	2055	130.00	770	203.00	182	276.00	1660
75.00	2930	135.00	743	204.00	1863	277.00	1227
76.00	1101	141.00	1077	205.00	2957	296.00	4139
77.00	23136	147.00	647	206.00	12097	297.00	582
78.00	1600	148.00	1502	207.00	1684	303.00	389
79.00	1274	155.00	724	208.00	173	315.00	390
80.00	968	156.00	947	211.00	384	323.00	1203
81.00	1518	161.00	380	217.00	3681	334.00	703
82.00	175	165.00	367	218.00	180	365.00	1693
93.00	2380	166.00	181	221.00	2404	372.00	533
98.00	1720	167.00	2783	222.00	203	423.00	1633
99.00	1430	168.00	1532	223.00	840	441.00	4717
101.00	775	174.00	387	224.00	7250	442.00	29280
104.00	379	175.00	976	225.00	1815	443.00	5636
105.00	197	177.00	173	227.00	3295	444.00	433
107.00	6404	179.00	1769	228.00	358		
108.00	1037	180.00	1262	229.00	664		
110.00	10870	181.00	465	244.00	5507		

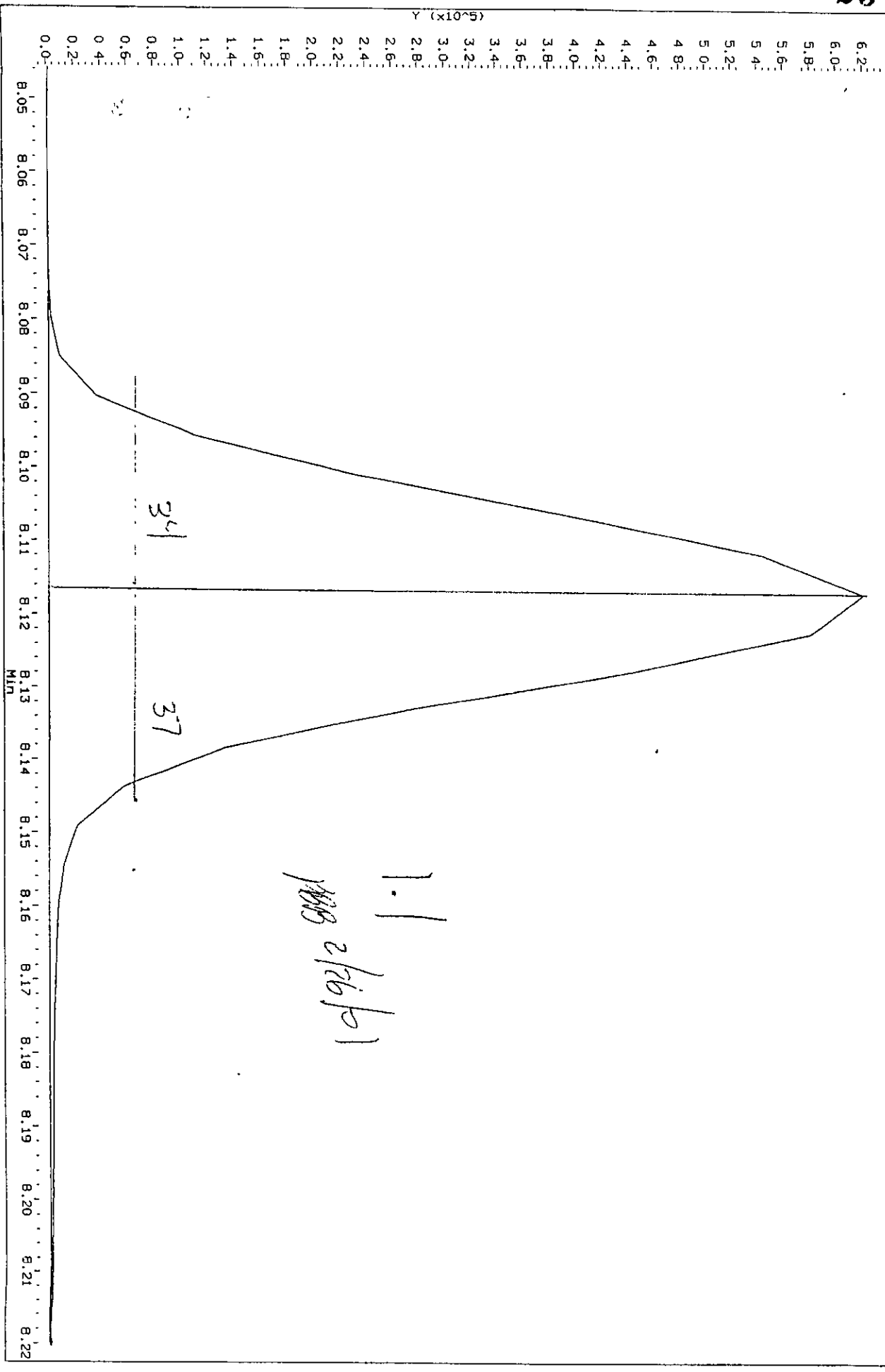
Data File: \\GPITP002\\d\\chem\\722.1\\022601.b\\F02260F2.D
 Injection Date: 26-FEB-2001 10:46
 Instrument: 722.1
 Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 5.555 to 5.729 Min



Data File: \QPI7P602\chem\722.1\022601.b\F0226BF2.D
Injection Date: 26-FEB-2001 10:46
Instrument: 722.1
Client Sample ID: DFTFP02

HP ChemStation MS data.ms: 8.046 to 8.220 Min



Date : 21-MAR-2001 10:39

Client ID: DFTPP02

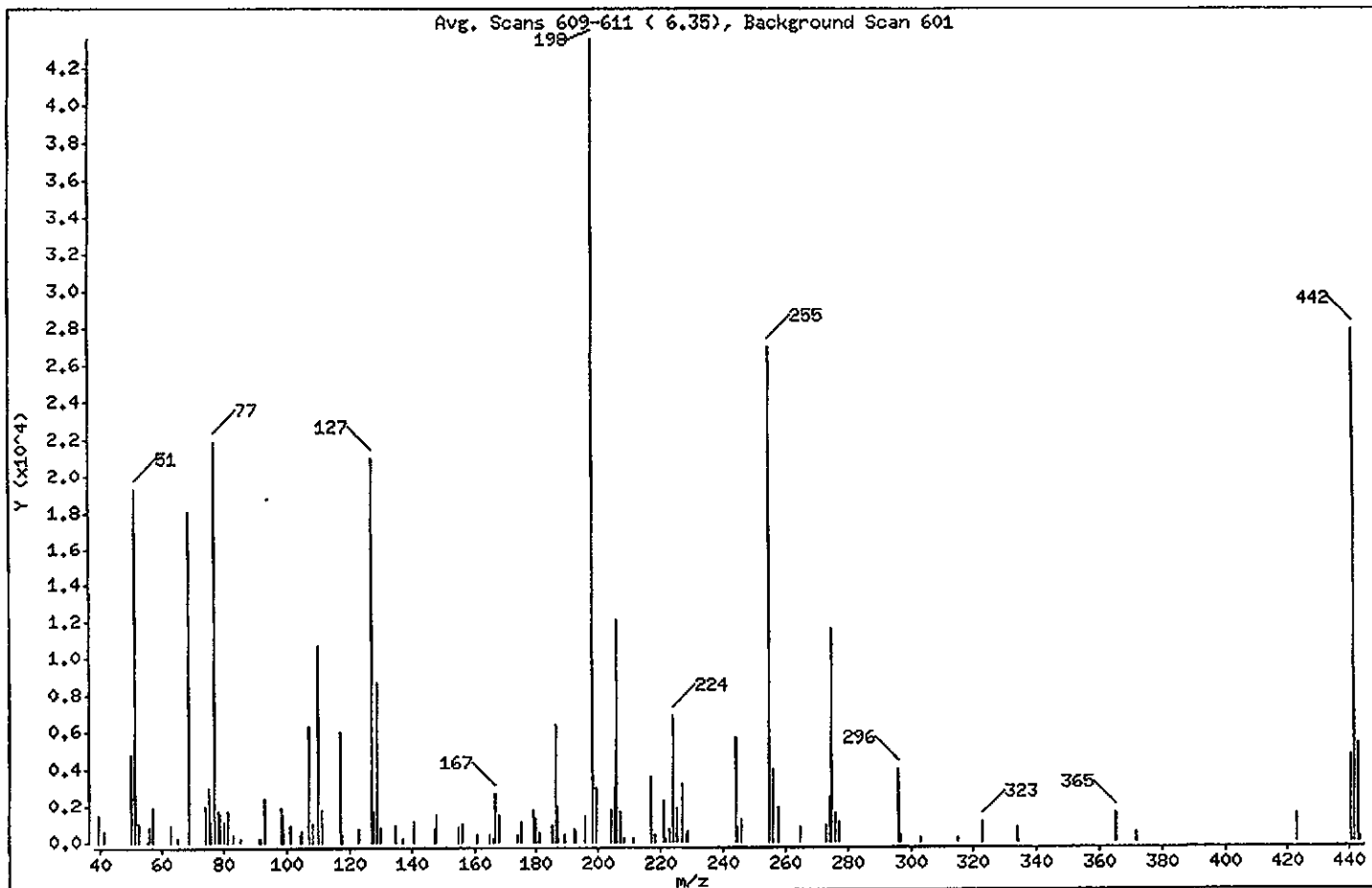
Instrument: 722.1

Sample Info: DFTPP050 (25ppb) 77/06/09

Operator: 007062

Column phase:
1 dftpp

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.12
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.33
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.13
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 30.00% of mass 198	26.66
365	Greater than 1.00% of mass 198	3.76
441	Present, but less than mass 443	10.77
442	40.00 - 100.00% of mass 198	63.98
443	17.00 - 23.00% of mass 442	12.23 (19.12)

Date : 21-MAR-2001 10:39

Client ID: DFTPP02

Instrument: 722.1

Sample Info: DFTPP050 (25ppb) 77/06/09

Operator: 007062

Column phase:

Column diameter: 2.00

Data File: F0321DF1.D

Spectrum: Avg. Scans 609-611 (6.35), Background Scan 601

Location of Maximum: 198.00

Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1545	101.00	857	179.00	1835	244.00	5695
41.00	562	104.00	375	180.00	1267	245.00	810
43.00	10	105.00	593	181.00	487	246.00	1249
44.00	32	107.00	6286	185.00	895	255.00	27024
50.00	4834	108.00	980	186.00	6453	256.00	4034
51.00	19256	110.00	10712	187.00	2029	258.00	1930
52.00	1011	111.00	1771	189.00	369	265.00	845
55.00	31	117.00	6059	192.00	654	273.00	854
56.00	806	118.00	370	193.00	615	274.00	2503
57.00	1920	123.00	736	196.00	1402	276.00	11635
63.00	921	127.00	21000	198.00	43640	276.00	1618
65.00	188	128.00	1726	199.00	2978	277.00	1143
69.00	18032	129.00	8768	204.00	1774	296.00	4033
74.00	1959	130.00	778	205.00	3003	297.00	368
75.00	3026	135.00	865	206.00	12089	303.00	175
76.00	1104	137.00	198	207.00	1694	315.00	176
77.00	21832	141.00	1144	208.00	172	323.00	1077
78.00	1680	147.00	705	211.00	205	334.00	789
79.00	1485	148.00	1548	217.00	3589	365.00	1640
80.00	1112	155.00	790	218.00	357	372.00	514
81.00	1733	156.00	979	221.00	2296	423.00	1455
83.00	423	161.00	382	222.00	196	441.00	4702
85.00	170	165.00	404	223.00	727	442.00	27920
91.00	167	166.00	167	224.00	6963	443.00	5338
92.00	173	167.00	2729	225.00	1884	444.00	176
93.00	2427	168.00	1509	227.00	3229		
98.00	1952	174.00	450	228.00	352		
99.00	1813	175.00	1071	229.00	604		

Data file: \\QPITPA02\chem\722.i\032101.b\F0321DF1.D

Date : 21-MAR-2001 10:39

Client ID: DFTPP02

Sample Info: DFTPP050 (25ppb) 77/06/09

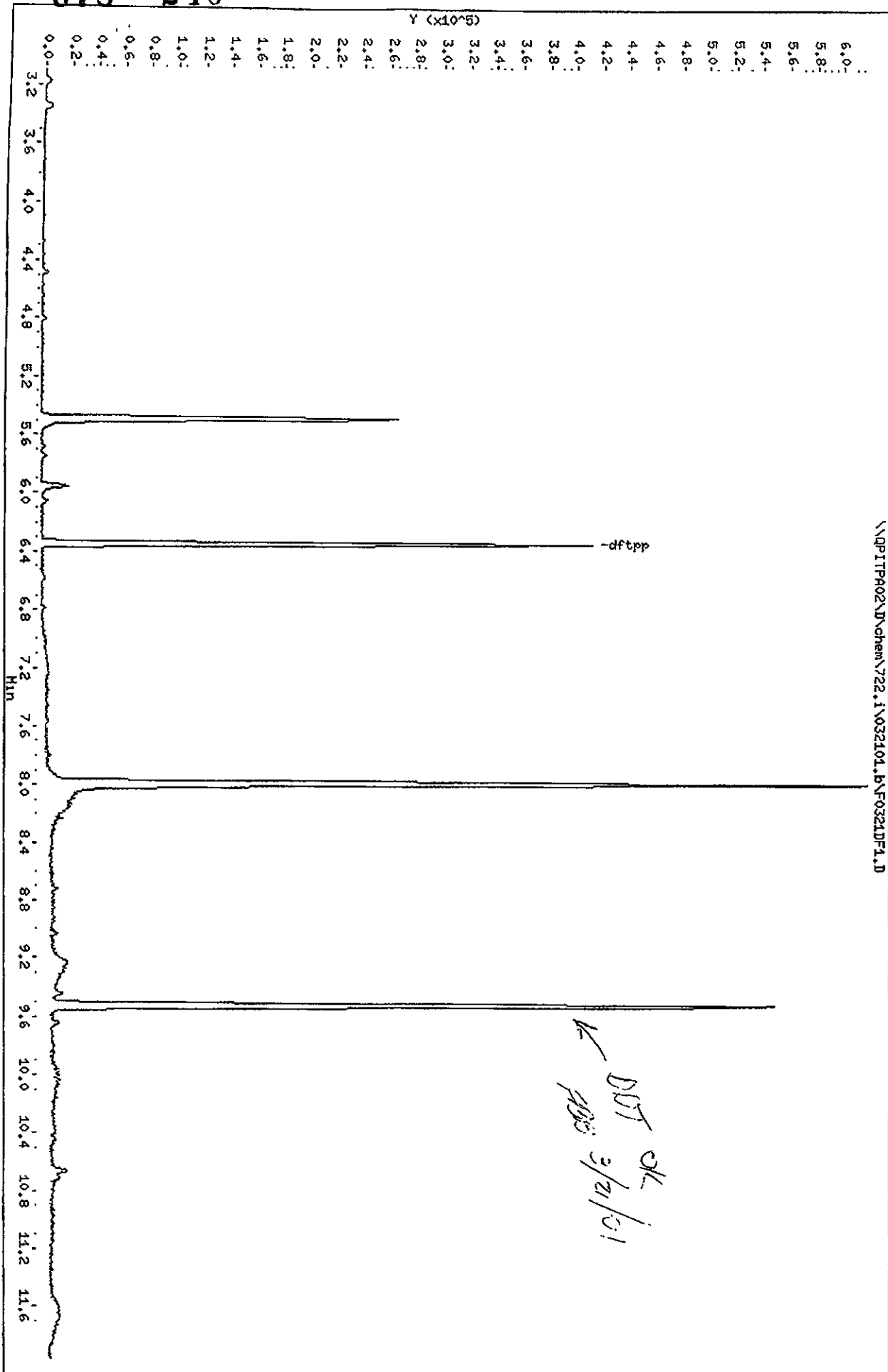
Instrument: 722.i

Operator: 007062

Column diameter: 2.00

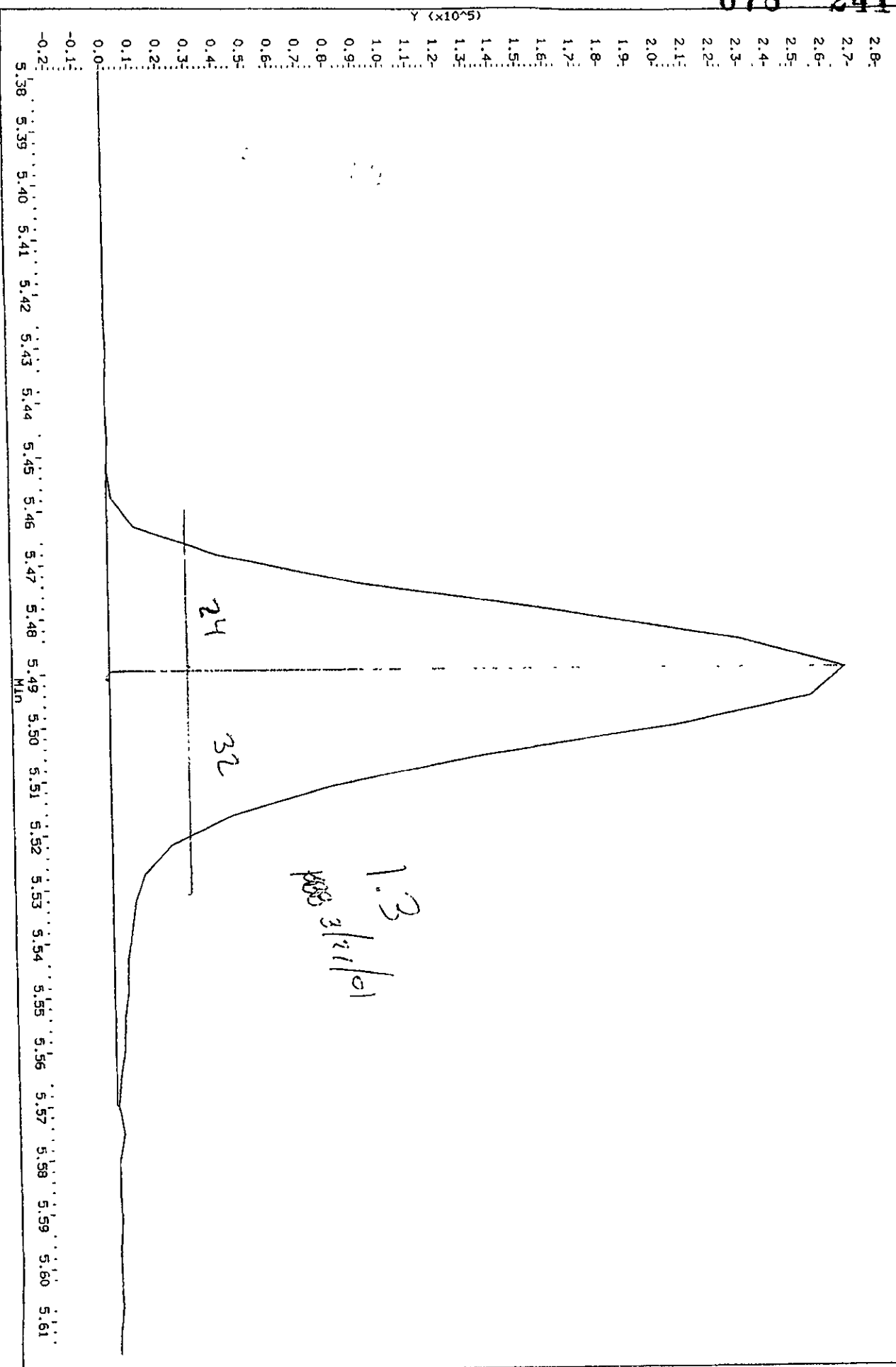
Column phase:

\\QPITPA02\chem\722.i\032101.b\F0321DF1.D



Data File: \\qpltpa02\chem\722.1\032101.b\F0321DF1.D
Injection Date: 21-MAR-2001 10:39
Instrument: 722.1
Client Sample ID: DFTPP02

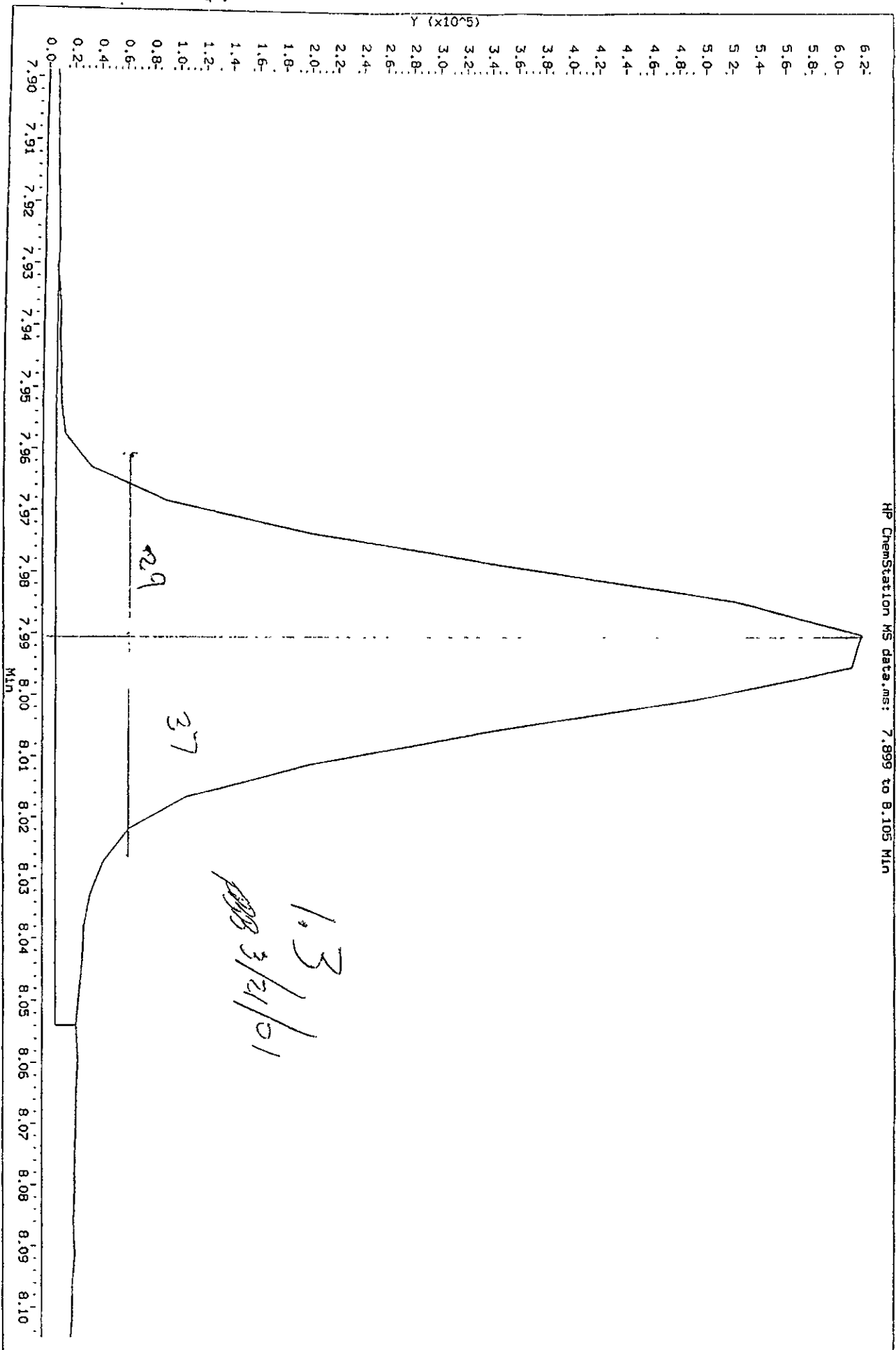
HP ChemStation MS data.ms: 5.379 to 5.617 Min



Data File: \\qpltpa02\chem\722.1\032101.b\F0321DF1.D
Injection Date: 21-MAR-2001 10:39
Instrument: 722.1
Client Sample ID: DFTPP02

678 243

HP ChemStation MS data.ms: 7.899 to 8.105 Min



UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

678 243

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C190000 245

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXLAE1AA

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

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

FORM I

678 244

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C190000 245

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXLAE1AA

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(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

FORM I

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C190000 245

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXLAE1AA

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

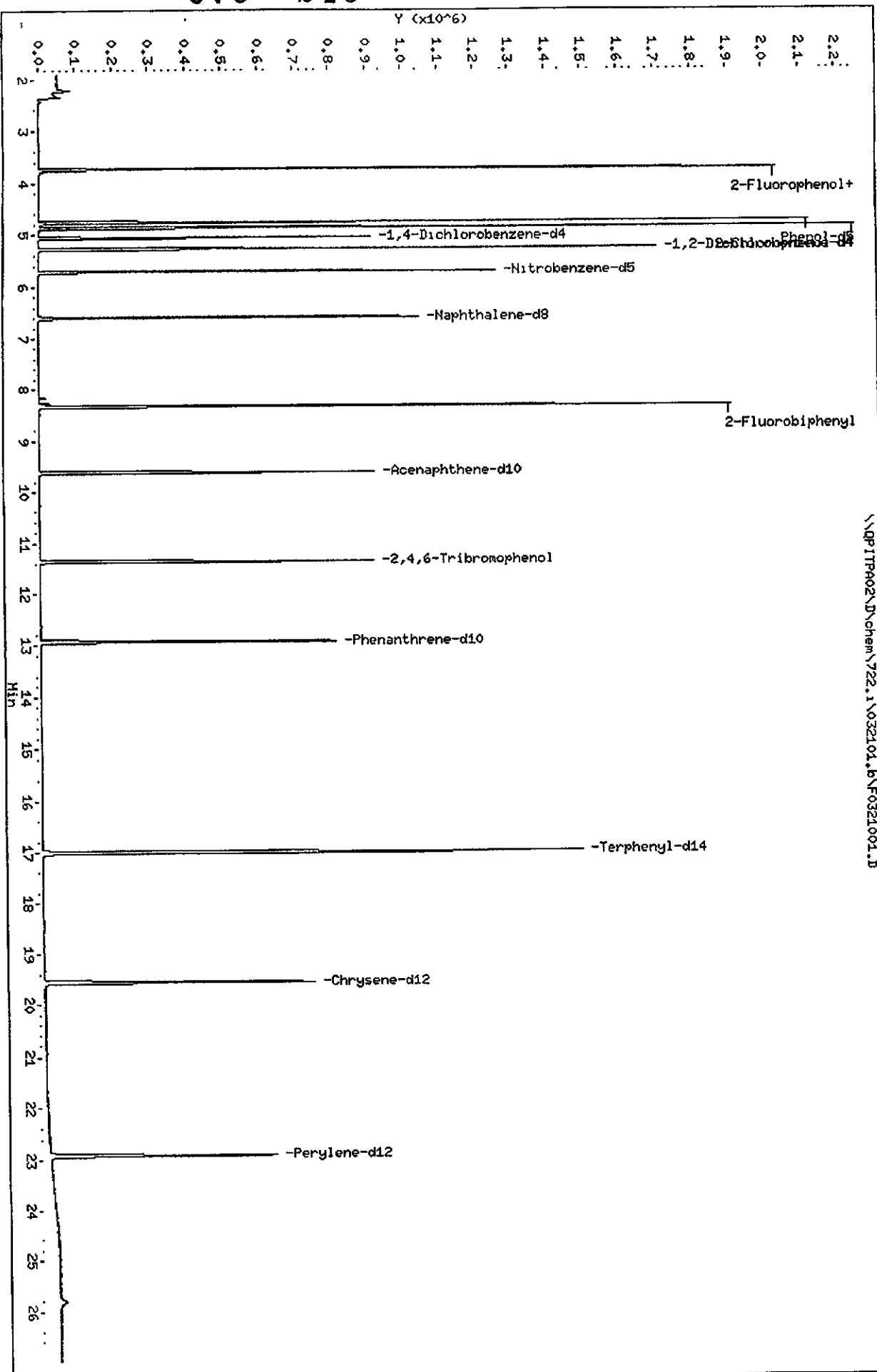
QC Batch: 1078245

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: \\QPITP002\N\chem\722.1\032101.b\F0321001.D
 Date: 21-MAR-2004 12:35
 Client ID: INTRA-LAB BLANK
 Sample Info: C1C150304-BLK 3/19/01 H2O (1078245)
 Volume Injected (uL): 2.0
 Column phase: Hp5-MS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25



Data File: \\qpitpa02\d\chem\722.i\032101.b\F0321001.D
Report Date: 21-Mar-2001 13:05

Page 1

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270
Data file : \\qpitpa02\d\chem\722.i\032101.b\F0321001.D
Lab Smp Id: DXLAE1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 21-MAR-2001 12:35
Operator : 007062 Inst ID: 722.i
Smp Info : C1C150304-BLK 3/19/01 H2O (1078245)
Misc Info : dxlaela, 032101.b, 8270b.m, 2-root.sub
Comment :
Method : \\QPITPA02\D\chem\722.i\032101.b\8270b.m
Meth Date : 21-Mar-2001 12:38 BungardF Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 3 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

APB
3/21/01

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

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)
gpc	1.000	gpc correction factor

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4		152	5.056	5.060	(1.000)	178424	40.0000	
* 2 Naphthalene-d8		136	6.589	6.598	(1.000)	692132	40.0000	
* 3 Acenaphthene-d10		164	9.618	9.627	(1.000)	391212	40.0000	
* 4 Phenanthrene-d10		188	12.925	12.934	(1.000)	676950	40.0000	
* 5 Chrysene-d12		240	19.554	19.569	(1.000)	679037	40.0000	
* 6 Perylene-d12		264	22.915	22.924	(1.000)	595507	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.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
=====	=====	==	=====	=====	=====	=====	=====
26 1,3-Dichlorobenzene	146		Compound	Not	Detected		
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.		
205 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	232		Compound	Not	Detected		
88 2,3,4,6-Tetrachlorophenol	232		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	169		Compound	Not	Detected.		
100 1,2-Diphenylhydrazine	77		Compound	Not	Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(NG)	(ug/L)
=====	=====	==	=====	=====	=====	=====	=====
106 4-Bromophenyl-phenylether	248	Compound Not Detected.					
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]anthracen	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	5.713	5.717	(0.867)	544849	82.2894	41.1
\$ 155 2-Fluorobiphenyl	172	8.331	8.335	(0.866)	961829	84.1505	42.1
\$ 156 Terphenyl-d14	244	17.001	17.000	(0.869)	1134724	85.6570	42.8
\$ 157 Phenol-d5	99	4.757	4.761	(0.941)	862761	112.467	56.2
\$ 158 2-Fluorophenol	112	3.726	3.735	(0.737)	657271	113.156	56.6
\$ 159 2,4,6-Tribromophenol	330	11.365	11.374	(0.879)	185108	106.224	53.1
\$ 186 2-Chlorophenol-d4	132	4.858	4.862	(0.961)	724466	125.735	62.9
\$ 187 1,2-Dichlorobenzene-d4	152	5.264	5.268	(1.041)	309555	83.2976	41.6

678 250

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C190000 245

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXLAE1AC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078245

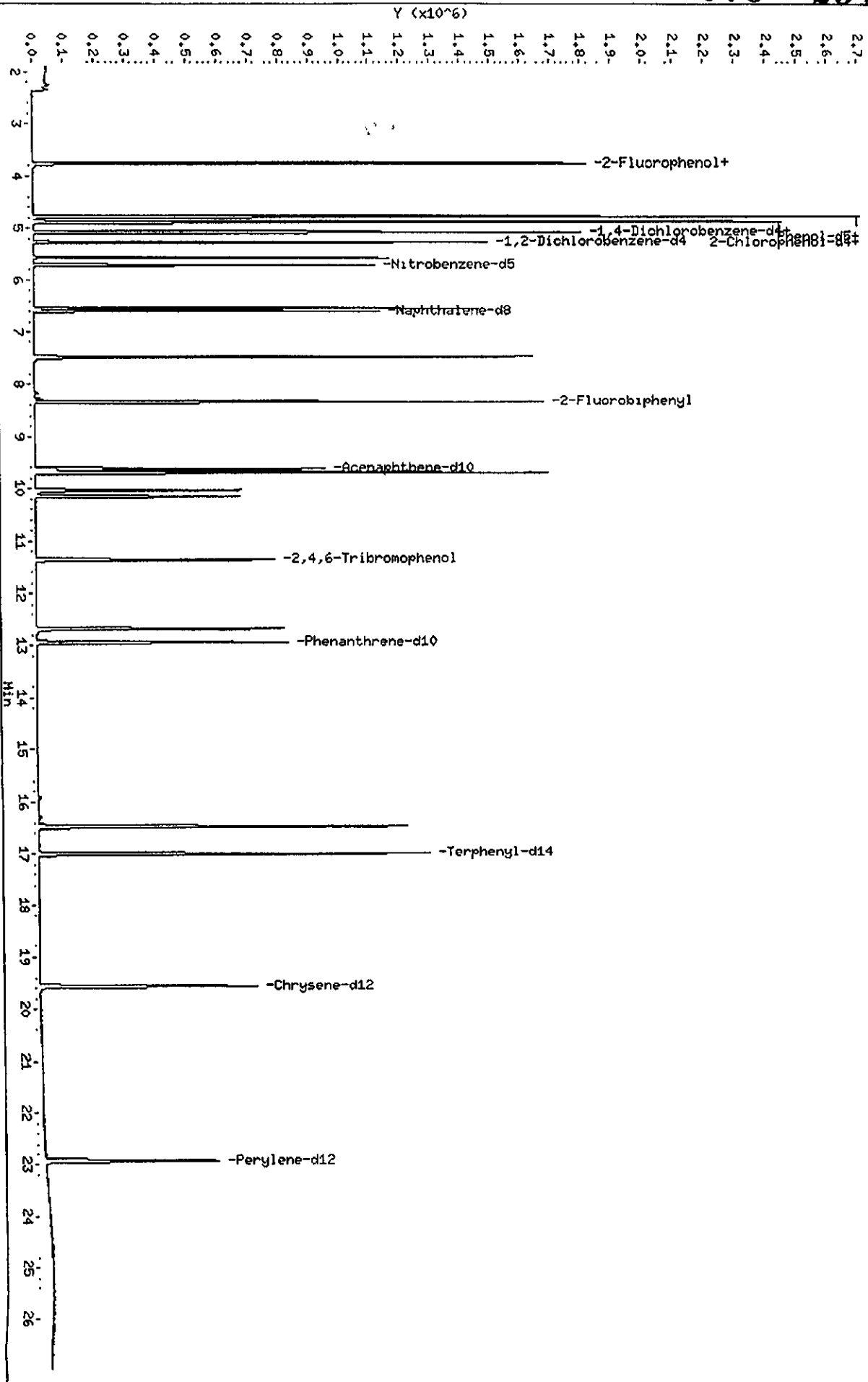
Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	35.3	
59-50-7	4-Chloro-3-methylphenol	48.0	
95-57-8	2-Chlorophenol	51.1	
106-46-7	1,4-Dichlorobenzene	34.9	
121-14-2	2,4-Dinitrotoluene	30.0	
100-02-7	4-Nitrophenol	39.4	
621-64-7	N-Nitrosodi-n-propylamine	31.7	
87-86-5	Pentachlorophenol	41.8	
108-95-2	Phenol	46.3	
129-00-0	Pyrene	38.3	
120-82-1	1,2,4-Trichlorobenzene	35.7	

Data File: \\NPITPA02\Nchem\722.1\032101.b\F0321002.D
 Date : 21-MAR-2004 13:08
 Client ID: INTRA-LAB CHECK
 Sample Info: C1C150304-LCS 3/19/01 H2O (1078245)
 Volume Injected (uL): 2.0
 Column phase: Hp5-HS

Instrument: 722.1
 Operator: 007062
 Column diameter: 0.25

\\NPITPA02\Nchem\722.1\032101.b\F0321002.D



STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\032101.b\F0321002.D
 Lab Smp Id: DXLAE1AC Client Smp ID: INTRA-LAB CHECK
 Inj Date : 21-MAR-2001 13:08
 Operator : 007062 Inst ID: 722.i
 Smp Info : C1C150304-LCS 3/19/01 H2O (1078245)
 Misc Info : dxlaelac,032101.b,8270b.m,2-root.sub
 Comment :
 Method : \\QPITPA02\D\chem\722.i\032101.b\8270b.m
 Meth Date : 21-Mar-2001 12:38 BungardF Quant Type: ISTD
 Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
 Als bottle: 4 QC Sample: METHOD SPIKE
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 2-root.sub
 Target Version: 4.04
 Processing Host: PITPC062

3/21/01

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

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)
gpc	1.000	gpc correction factor

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.067	5.060	(1.000)	189691	40.0000	
* 2 Naphthalene-d8	136	6.595	6.598	(1.000)	738170	40.0000	
* 3 Acenaphthene-d10	164	9.629	9.627	(1.000)	408379	40.0000	
* 4 Phenanthrene-d10	188	12.930	12.934	(1.000)	688205	40.0000	
* 5 Chrysene-d12	240	19.560	19.569	(1.000)	647371	40.0000	
* 6 Perylene-d12	264	22.920	22.924	(1.000)	554687	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	4.784	4.771	(0.944)	760995	92.5300	46.3 (Q)
23 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
24 2-Chlorophenol	128	4.885	4.878	(0.964)	618112	102.261	51.1
26 1,3-Dichlorobenzene	146	Compound Not Detected					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
27 1,4-Dichlorobenzene	146	5.083	5.076	(1.003)	481681	69.8896	34.9
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	5.574	5.573	(1.100)	324832	63.4372	31.7
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	6.541	6.540	(0.992)	391111	71.3268	35.7
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	7.465	7.475	(1.132)	539383	96.0903	48.0
62 2-Methylnaphthalene	142	Compound Not Detected.					
205 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	9.693	9.692	(1.007)	758531	70.5246	35.3
83 2,4-Dinitrophenol	184	Compound Not Detected					
85 4-Nitrophenol	109	10.035	10.033	(1.042)	161210	78.8633	39.4 (Q)
86 Dibenzofuran	168	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	10.153	10.156	(1.054)	240540	60.0559	30.0
91 2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
88 2,3,4,6-Tetrachlorophenol	232	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	169	Compound Not Detected.					
100 1,2-Diphenylhydrazine	77	Compound Not Detected.					
106 4-Bromophenyl-phenylether	248	Compound Not Detected.					

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	266	12.674	12.678	{0.980}	198391	83.6458	41.8
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	16.472	16.471	{0.842}	1216939	76.5422	38.3
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]anthracen	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	5.719	5.717	{0.867}	486010	68.8249	34.4
\$ 155 2-Fluorobiphenyl	172	8.336	8.335	{0.866}	861593	72.2120	36.1
\$ 156 Terphenyl-d14	244	17.001	17.000	{0.869}	986394	78.1022	39.0
\$ 157 Phenol-d5	99	4.768	4.761	{0.941}	739838	90.7149	45.4
\$ 158 2-Fluorophenol	112	3.753	3.735	{0.741}	569795	92.2698	46.1
\$ 159 2,4,6-Tribromophenol	330	11.371	11.374	{0.879}	160562	90.6317	45.3
\$ 186 2-Chlorophenol-d4	132	4.869	4.862	{0.961}	629493	102.762	51.4
\$ 187 1,2-Dichlorobenzene-d4	152	5.275	5.268	{1.041}	275697	69.7803	34.9

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: C1C190000 245
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

Sample WT/Vol: 1000 / mL Date Received: 03/15/01
Work Order: DXLAE1AD Date Extracted: 03/19/01
Dilution factor: 1 Date Analyzed: 03/21/01
Moisture %: NA

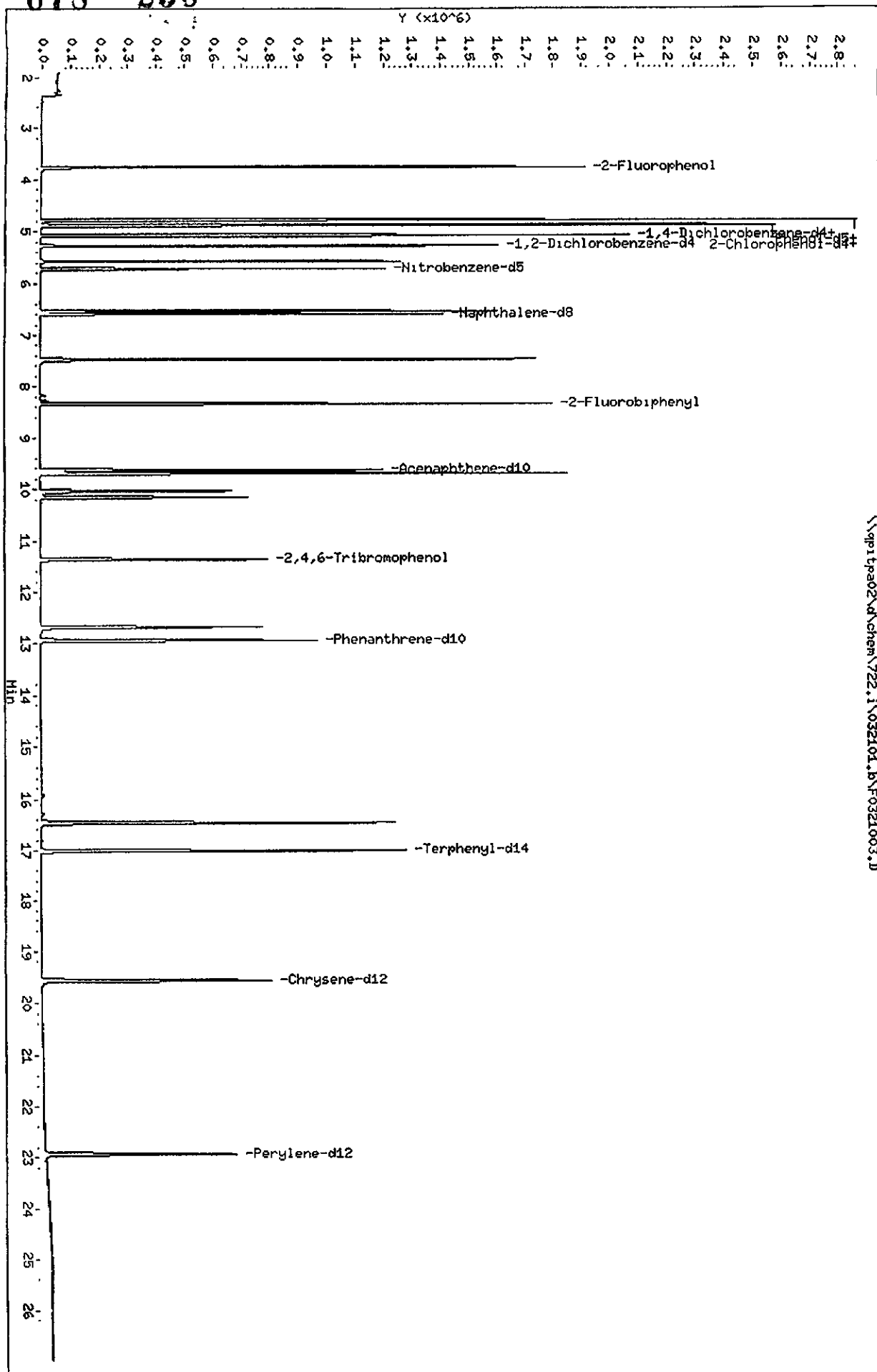
QC Batch: 1078245

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
83-32-9	Acenaphthene	31.3	
59-50-7	4-Chloro-3-methylphenol	41.5	
95-57-8	2-Chlorophenol	45.2	
106-46-7	1,4-Dichlorobenzene	31.6	
121-14-2	2,4-Dinitrotoluene	25.8	
100-02-7	4-Nitrophenol	32.1	
621-64-7	N-Nitrosodi-n-propylamine	28.6	
87-86-5	Pentachlorophenol	33.0	
108-95-2	Phenol	40.8	
129-00-0	Pyrene	34.1	
120-82-1	1,2,4-Trichlorobenzene	32.2	

Data File: \\pp1tpa02\chem\722.1\032101.b\F0321003.D
Date: 21-MAR-2001 13:40
Client ID: INTRA-LAB CHECK
Sample Info: C1C150304-LCSD 3/19/01 H2O (1078245)
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 722.i
Operator: 007062
Column diameter: 0.25



678 257

STL-Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\qpitpa02\d\chem\722.i\032101.b\F0321003.D
Lab Smp Id: DXLAE1AD Client Smp ID: INTRA-LAB CHECK
Inj Date : 21-MAR-2001 13:40
Operator : 007062 Inst ID: 722.i
Smp Info : C1C150304-LCSD 3/19/01 H2O (1078245)
Misc Info : dxlaelad,032101.b,8270b.m,2-root.sub
Comment :
Method : \\QPITPA02\D\chem\722.i\032101.b\8270b.m
Meth Date : 21-Mar-2001 12:38 BungardF Quant Type: ISTD
Cal Date : 26-FEB-2001 13:28 Cal File: F02260C6.D
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-root.sub
Target Version: 4.04
Processing Host: PITPC062

3/21/01

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

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)
gpc	1.000	gpc correction factor

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (NG)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.067	5.060	(1.000)	227072	40.0000		
* 2 Naphthalene-d8	136	6.595	6.598	(1.000)	891814	40.0000		
* 3 Acenaphthene-d10	164	9.629	9.627	(1.000)	503558	40.0000		
* 4 Phenanthrene-d10	188	12.930	12.934	(1.000)	820453	40.0000		
* 5 Chrysene-d12	240	19.560	19.569	(1.000)	736713	40.0000		
* 6 Perylene-d12	264	22.920	22.924	(1.000)	628362	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	4.784	4.771	(0.944)	803489	81.6138	40.8(Q)	
23 bis(2-Chloroethyl)ether	93				Compound Not Detected.			
24 2-Chlorophenol	128	4.885	4.878	(0.964)	653681	90.3428	45.2	
26 1,3-Dichlorobenzene	146				Compound Not Detected.			

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
27 1,4-Dichlorobenzene	146	5.083	5.076	(1.003)	521231	63.1781	31.6
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	5.574	5.573	(1.100)	350142	57.1232	28.6
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	6.541	6.540	(0.992)	426670	64.4061	32.2
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	7.465	7.475	(1.132)	562500	82.9444	41.5
62 2-Methylnaphthalene	142	Compound Not Detected.					
205 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	9.693	9.692	(1.007)	830376	62.6118	31.3
83 2,4-Dinitrophenol	184	Compound Not Detected.					
85 4-Nitrophenol	109	10.030	10.033	(1.042)	161873	64.2201	32.1(Q)
86 Dibenzofuran	168	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	10.153	10.156	(1.054)	254532	51.5377	25.8
91 2,3,5,6-Tetrachlorophenol	232	Compound Not Detected.					
88 2,3,4,6-Tetrachlorophenol	232	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	169	Compound Not Detected.					
100 1,2-Diphenylhydrazine	77	Compound Not Detected.					
106 4-Bromophenyl-phenylether	248	Compound Not Detected.					

678 259

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (NG)	FINAL (ug/L)
107 Hexachlorobenzene	283				Compound Not Detected.		
111 Pentachlorophenol	266	12.674	12.678	(0.980)	186547	65.9743	33.0
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	16.472	16.471	(0.842)	1233924	68.1986	34.1
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 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
151 Benzo(g,h,i)perylene	276				Compound Not Detected.		
\$ 154 Nitrobenzene-d5	82	5.719	5.717	(0.867)	528616	61.9616	31.0
\$ 155 2-Fluorobiphenyl	172	8.336	8.335	(0.866)	919620	62.5072	31.2
\$ 156 Terphenyl-d14	244	17.001	17.000	(0.869)	971072	67.5646	33.8
\$ 157 Phenol-d5	99	4.768	4.761	(0.941)	771854	79.0606	39.5
\$ 158 2-Fluorophenol	112	3.753	3.735	(0.741)	593149	80.2395	40.1
\$ 159 2,4,6-Tribromophenol	330	11.371	11.374	(0.879)	162420	76.9026	38.4
\$ 186 2-Chlorophenol-d4	132	4.869	4.862	(0.961)	654271	89.2246	44.6
\$ 187 1,2-Dichlorobenzene-d4	152	5.275	5.268	(1.041)	294326	62.2319	31.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.

678 260

GC/MS SEMIVOLATILE
MISCELLANEOUS

Continuous L-L Extraction Worksheet

[illegible]

Instrument Name: GC/MS Instrument #1

Sequence File: D:\HPCHEM\1\SEQUENCE\022601.S

Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int

Operator: 007062

Data Path: d:\HPCHEM\1\DATA\022601.b\

Method Path: D:\HPCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	F0226DF1	DFTPPS	DFTPP050 (25ppb) 77-06-09
2)	Sample	2	F0226SC1	SIMPAH	SSTD4.0 (2.0ppb) 77-14-3
3)	Sample	3	F0226001	SIMPAH	C1B140249-BLK x10 2/21/01 Soil (
4)	Sample	4	F0226002	SIMPAH	C1B150278-004 x20 2/21/01 Soil (
5)	Sample	5	F0226003	SIMPAH	C1B150284-005D x10 2/21/01 Soil
6)	Sample	6	F0226004	SIMPAH	C1B150278-004 x40 2/21/01 Soil (
7)	Sample	(10-46) 1	F0226DF2	DFTPP	DFTPP050 (25ppb) 77/06/09
8)	Sample	ARC 2	F02260C2	72EARLY	SSTD050 (25ppb) 77-13-14
9)	Sample	ARC 25	F02260C3	72EARLY	SSTD020 (10ppb) 77-11-01
10)	Sample	ARC 26	F02260C4	72EARLY	SSTD080 (40ppb) 77-11-03
11)	Sample	ARC 27	F02260C5	72EARLY	SSTD120 (60ppb) 77-11-04
12)	Sample	ARC 28	F02260C6	72EARLY	SSTD160 (80ppb) 77-11-05
13)	Sample	ARC 29	F02260V1	72EARLY	SSTD VER (SSTD050) 77-13-15
14)	Sample	ARC 3	F0226005	72EARLY	C1B230105-BLK 2/23/01 H2O (10571
15)	Sample	ARC 4	F0226006	72EARLY	C1B230105-LCS 2/23/01 H2O (10571
16)	Sample	ARC 5	F0226007	72EARLY	C1B230105-LCSD 2/23/01 H2O (1057
17)	Sample	ARC 6	F0226008	72EARLY	C1B230105-001 x10 2/23/01 H2O (1
18)	Sample	ARC 7	F0226009	72EARLY	C1B230105-002 2/23/01 H2O (10571
19)	Sample	8	F0226010	72EARLY	C1B220204-001 2/23/01 H2O (10571
20)	Sample	9	F0226011	72EARLY	C1B220204-002 2/23/01 H2O (10571
21)	Sample	10	F0226012	72EARLY	C1B220204-003 2/23/01 H2O (10571
22)	Sample	11	F0226013	72EARLY	C1B220204-004 2/23/01 H2O (10571
23)	Sample	12	F0226014	72EARLY	C1B220204-005 2/23/01 H2O (10571
24)	Sample	13	F0226015	72EARLY	C1B220204-006 2/23/01 H2O (10571

Bytes Needed: 1234685 Space on drive D: 1023932928

Sequence Verification Done!

Instrument Name: GC/MS Instrument #1

678 263

Sequence File: D:\HPCHEM\1\SEQUENCE\032101.S

Comment: STL- PITT HP5973-2 LOG 2ul inj 100ul+1ul int

Operator: 007062

Data Path: d:\HPCHEM\1\DATA\032101.b\

Method Path: D:\HPCHEM\1\METHODS\

8270
3/21/01
RBB

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	(10-39) 1	F03210C1	72EARLY	SSTD050 (25ppb) 77-06/09
2)	Sample	2	F03210C1	72EARLY	SSTD050 (25ppb) 77-15-13
3)	Sample	2	F03210C2	72EARLY	SSTD050 (25ppb) 77-15-13
4)	Sample	3	F0321001	72EARLY	C1C150304-BLK 3/19/01 H2O (10782
5)	Sample	4	F0321002	72EARLY	C1C150304-LCS 3/19/01 H2O (10782
6)	Sample	5	F0321003	72EARLY	C1C150304-LCS 3/19/01 H2O (10782
7)	Sample	6	F0321004	72EARLY	C1C150304-001 3/19/01 H2O (10782
8)	Sample	7	F0321005	72EARLY	C1C150304-BLK 3/19/01 2g/1ml (10
9)	Sample	8	F0321006	72EARLY	C1C150304-LCS 3/19/01 2g/1ml (10
10)	Sample	9	F0321007	72EARLY	C1C1160249-001ms 3/19/01 2g/1ml
11)	Sample	10	F0321008	72EARLY	C1C160249-001msd 3/19/01 2g/1ml
12)	Sample	11	F0321009	72EARLY	C1C160249-0013/19/01 2g/1ml (107
13)	Sample	12	F0321010	72EARLY	C1C160260-0013/19/01 2g/1ml (107
14)	Sample	13	F0321011	72EARLY	C1C160262-0013/19/01 2g/1ml (107
15)	Sample	14	F0321012	72EARLY	C1C160267-0013/19/01 2g/1ml (107
16)	Sample	15	F0321013	72EARLY	C1C160269-0013/19/01 2g/1ml (107
17)	Sample	16	F0321014	72EARLY	C1C160274-0013/19/01 2g/1ml (107
18)	Sample	17	F0321015	72EARLY	C1C160276-0013/19/01 2g/1ml (107
19)	Sample	18	F0321016	72EARLY	C1C160280-0013/19/01 2g/1ml (107
20)	Sample	19	F0321017	72EARLY	C1C160282-0013/19/01 2g/1ml (107
21)	Sample	100	F03090B3	72EARLY	Clean out Blank
22)	Sample	100	F03090B4	72EARLY	Clean out Blank

Bytes Needed: 62033 Space on drive D: 1023932928

Sequence Verification Done!

C1C150304

(C1C150304)

678 264

PSR024 3/19/01 3 54.21.MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY TROUTB

METHOD QL Base/Neutrals and Acids (8270C)

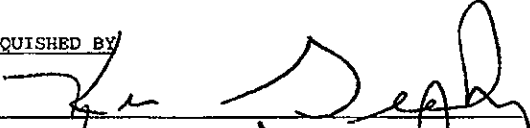
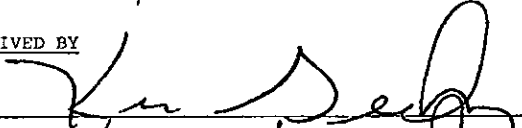
STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX	QTY	QTY	
		CNTR#							DESCRIPTION	RCVD	REQD	
11C CLP1	DXGMH-1-AC		321068	399411	I-49-QL	C1C150304	001		WATER	0	13	1

Dumped empty jar

RELINQUISHED BY

RECEIVED BY

DATE/TIME

		3/19/2001 06:40
		3/19/2001 10:35

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

678 265

PESTICIDE DATA

678 266

PESTICIDE
QC SUMMARY

2E
WATER PESTICIDE SURROGATE RECOVERY

678 267

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

GC Column(1): RTX-50

ID: 0.53 (mm)

GC Column(2): RTX-1701

ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	DF/24-B/1073	70	38*	86	84		De-224	81
02	PBLK5434	80	82	95	93			0
03	LCS5434	90	102	98	98			0
04	LCD5434	88	100	96	95			0
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								

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (20-141) 39-130
S2 (DCB) = Decachlorobiphenyl (63-130) 10-147

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

678 268

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C160000

WO #: DXJT71AC

BATCH: 1075434

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
gamma-BHC (Lindane)	0.250	0.235	94	49 - 137	
Heptachlor	0.250	0.232	93	57 - 124	
Aldrin	0.250	0.223	89	62 - 120	
Dieldrin	0.500	0.456	91	68 - 130	
Endrin	0.500	0.479	96	46 - 137	
4,4'-DDT	0.500	0.443	89	60 - 140	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C160000

WO #: DXJT71AD

BATCH: 1075434

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	0.250	0.226	91	49 - 137	
Heptachlor	0.250	0.223	89	57 - 124	
Aldrin	0.250	0.214	86	62 - 120	
Dieldrin	0.500	0.436	87	68 - 130	
Endrin	0.500	0.451	90	46 - 137	
4,4'-DDT	0.500	0.421	84	60 - 140	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 6 outside limits

COMMENTS:

678 270

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK5434

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab Sample ID: DXJT71AA

Lab File ID: C-A2150

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW3510

Sulfur Cleanup (Y/N) N

Date Extracted: 03/16/01

Date Analyzed (1): 03/20/01

Date Analyzed (2): 03/20/01

Time Analyzed (1): 1856

Time Analyzed (2): 1856

Instrument ID (1): GC3

Instrument ID (2): GC3

GC Column (1): RTX-50

ID: 0.53 (mm)

GC Column (2): RTX-1701

ID: 0.53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	DF/24-B/1073	DXGMH1AD	03/20/01	03/20/01
02	LCS5434	DXJT71AC	03/21/01	03/21/01
03	LCD5434	DXJT71AD	03/21/01	03/21/01
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

678 271

PESTICIDE
SAMPLE DATA

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1AD

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/20/01

Moisture %: NA

QC Batch: 1075434

Client Sample Id: DF/24-B/1073/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.023	J P
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	0.016	J
5103-74-2	gamma-Chlordane	0.020	J
72-54-8	4,4'-DDD	0.050	U
72-55-9	4,4'-DDE	0.013	J P
50-29-3	4,4'-DDT	0.014	J P
60-57-1	Dieldrin	0.025	J
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	0.015	J P
1024-57-3	Heptachlor epoxide	0.050	U
72-43-5	Methoxychlor	0.10	U
8001-35-2	Toxaphene	2.0	U

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2149.d
Lab Smp Id: DXGMH1AD Client Smp ID: DF/24-B/1073/IDW/00
Inj Date : 20-MAR-2001 18:27
Operator : 010139 Inst ID: gc3.i
Smp Info : DXGMH1AD,2201-E.b,,PEST.sub,,,
Misc Info : 150304001
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:07 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC061

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	4.233	4.225	0.008	35375	0.00760	0.07595
5 alpha-BHC	Compound Not Detected.					
6 gamma-BHC (Lindane)	Compound Not Detected.					
9 Chlordane	8.441	8.391	0.050	2501	0.02070	0.2070(a)
10 Heptachlor	8.900	8.908	-0.008	7393	0.00145	0.01454(a)
11 Aldrin	9.883	9.858	0.025	17799	0.00381	0.03808(a)
7 beta-BHC	Compound Not Detected					
8 delta-BHC	11.925	11.891	0.034	29608	0.00561	0.05614
12 Heptachlor epoxide	12.291	12.341	-0.050	22706	0.00504	0.05040
15 Endosulfan I	13.066	13.041	0.025	13382	0.00337	0.03369(a)
13 gamma-Chlordane	13.191	13.200	-0.009	9906	0.00216	0.02163(a)
14 alpha-Chlordane	13.350	13.341	0.009	9325	0.00212	0.02117(a)
16 4,4'-DDE	13.566	13.541	0.025	9269	0.00213	0.02130(a)
17 Dieldrin	13.850	13.816	0.034	13179	0.00318	0.03184(a)
20 Endrin	14.200	14.216	-0.016	47197	0.01311	0.1311
18 Toxaphene	Compound Not Detected					

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2149.d
 Report Date: 21-Mar-2001 10:30

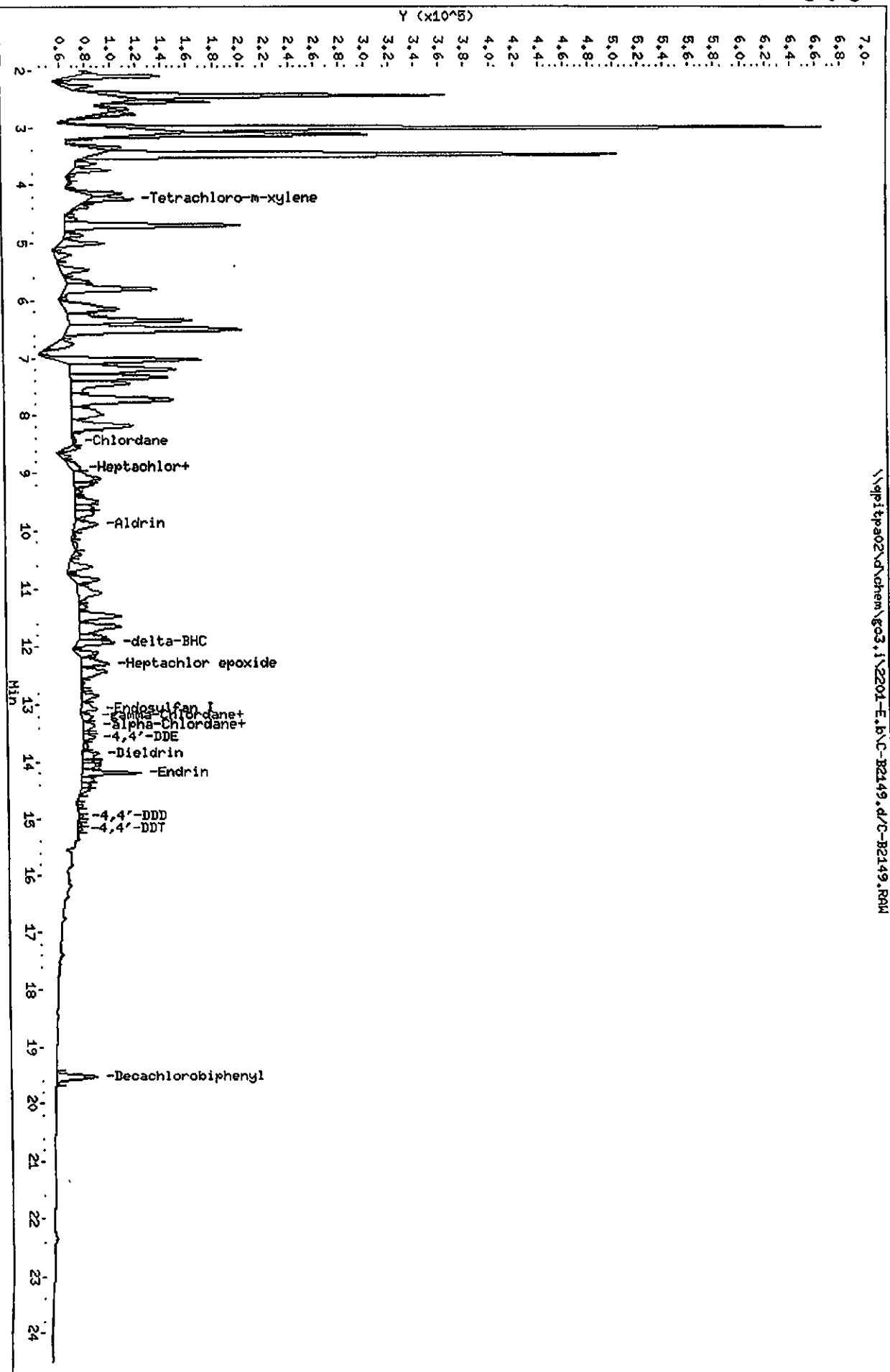
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD	14.958	14.925	0.033	3161	0.00109	0.01085(a)
22 Endosulfan II	Compound Not Detected.					
23 4,4'-DDT	15.175	15.183	-0.008	3860	0.00137	0.01371(a)
24 Endrin aldehyde	Compound Not Detected.					
25 Methoxychlor	Compound Not Detected.					
26 Endosulfan sulfate	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	31570	0.01687	0.1687

QC Flag Legend

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

Data File: \\p1tpa02\chem\gc3.1\2201-E.b\C-B2149.d
 Date : 20-Mar-2001 18:27
 Client ID: BF/24-B/1073/IDM/00
 Sample Info: DKGTHAD/2201-E.b,,PEST,sub,,
 Volume Injected (uL): 1.0
 Column phase: RTX-1701

Instrument: gc3.1
 Operator: Q10139
 Column diameter: 0.53



678 276

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2149.d
 Report Date: 21-Mar-2001 11:35

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2149.d
 Lab Smp Id: DXGMH1AD Client Smp ID: DF/24-B/1073/IDW/00
 Inj Date : 20-MAR-2001 18:27
 Operator : 010139 Inst ID: gc3.i
 Smp Info : DXGMH1AD, 2201-E.b,, PEST.sub,,,
 Misc Info : 150304001
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:12 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC061

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	4.466	4.458	0.008	35397	0.01390	0.1390
5 alpha-BHC	6.558	6.566	-0.008	5116	0.00163	0.01632(a)
6 gamma-BHC (Lindane)	8.025	8.025	0.000	8132	0.00294	0.02937(a)
7 beta-BHC	Compound Not Detected.					
9 Chlordane	8.366	8.391	-0.025	6920	0.05155	0.5156(a)
10 Heptachlor	9.000	9.025	-0.025	10318	0.00466	0.04657(a)
8 delta-BHC	Compound Not Detected.					
11 Aldrin	10.308	10.258	0.050	5001	0.00233	0.02330(a)
12 Heptachlor epoxide	Compound Not Detected.					
13 gamma-Chlordane	12.950	12.958	-0.008	5547	0.00198	0.01982(a)
14 alpha-Chlordane	13.300	13.316	-0.016	4701	0.00165	0.01649(a)
15 Endosulfan I	Compound Not Detected.					
16 4,4'-DDE	13.858	13.883	-0.025	3736	0.00125	0.01254(a)
17 Dieldrin	14.091	14.050	0.041	7319	0.00253	0.02533(a)
20 Endrin	Compound Not Detected.					

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
21 4,4'-DDD						
18 Toxaphene						
22 Endosulfan II						
23 4,4'-DDT	15.350	15.391	-0.041	4984	0.00210	0 02098(a)
24 Endrin aldehyde	15.675	15.658	0.017	2341	0 00117	0.01168(a)
26 Endosulfan sulfate						
25 Methoxychlor						
27 Endrin ketone						
\$ 30 Decachlorobiphenyl	21.475	21 475	0.000	21781	0.01728	0 1728

QC Flag Legend

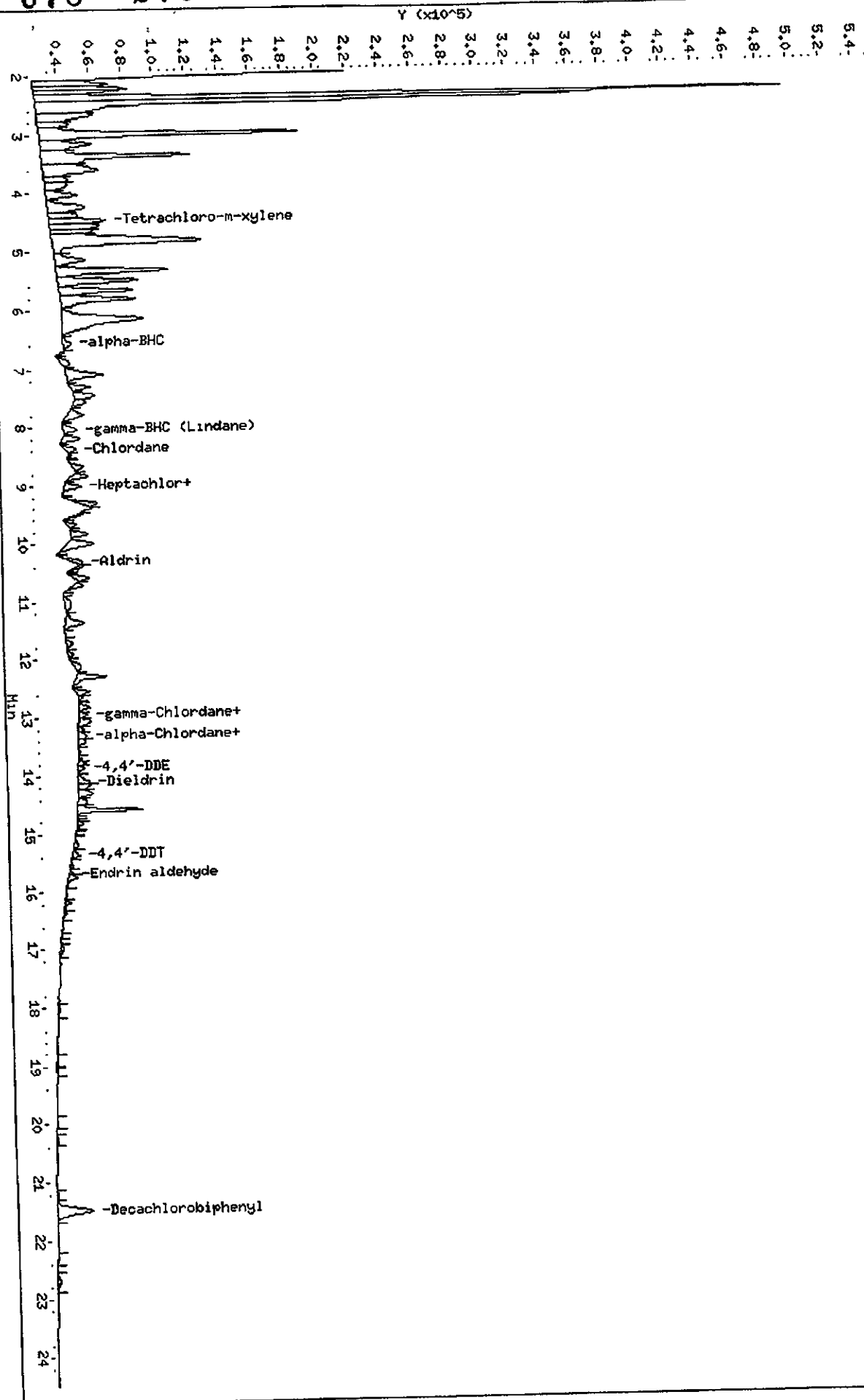
a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

678 278

Data File: \\qpltpa02\chem\g03.1\2201-E.b\C-A2149.d
Date: 20-MAR-2001 18:27
Client ID: JF/24-B/1073/IDM/00
Sample Info: DGCHEMID.2201-E.b, PEST, sub,,
Volume Injected (uL): 1.0
Column phase: RTX-50

Instrument: g03.1
Operator: 010139
Column diameter: 0.53

\\qpltpa02\chem\g03.1\2201-E.b\C-A2149.d/C-A2149.RAM



10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

678 279

EPA SAMPLE NO.

DF/24-B/1 073/IDW/00

Lab Name: Contract: Lab Code: Case No.: SAS No.: SDG No.: C1C150304
Lab Sample ID: DXGMH1AD Date(s) Analyzed: 03/20/01 03/20/01
Instrument ID (1): GC3 Instrument ID (2): GC3
GC Column(1): RTX-50 ID: 0.53(mm) GC Column(2): RTX-1701 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Heptachlor	1	9.00	8.97	9.08	0.04657	
	2	8.90	8.86	8.96	0.01454	220.3
Aldrin	1	10.31	10.21	10.31	0.02330	
	2	9.88	9.81	9.91	0.03808	63.4
Dieldrin	1	14.09	14.00	14.10	0.02533	
	2	13.85	13.77	13.87	0.03184	25.7
4,4'-DDE	1	13.86	13.83	13.93	0.01254	
	2	13.57	13.49	13.59	0.02130	69.8
4,4'-DDT	1	15.35	15.34	15.44	0.02098	
	2	15.18	15.13	15.23	0.01371	53.0
alpha-Chlordane	1	13.30	13.27	13.37	0.01649	
	2	13.35	13.29	13.39	0.02117	28.4
gamma-Chlordane	1	12.95	12.91	13.01	0.01982	
	2	13.19	13.15	13.25	0.02163	9.1
	1					
	2					

678 280

PESTICIDE
CALIBRATION DATA

Report Date : 21-Mar-2001 10:03

6U
HP58903F
RT-1721

678 281

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Quant Method : ESTD Target Version : 4.04
Last Update : 21-Mar-2001 10:02 Number of Cpnds : 24
Data Type : GC MULTI COMP

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	4.225	4.175-4.275	4.66e+006
5 alpha-BHC	6.892	6.842-6.942	6.19e+006
6 gamma-BHC (Lindane)	8.242	8.192-8.292	5.55e+006
7 beta-BHC	11.175	11.125-11.225	2.64e+006
8 delta-BHC	11.892	11.842-11.942	5.27e+006
9 Chlordane	8.392	8.342-8.442	1.97e+005
	8.917	8.867-8.967	2.65e+005
	13.200	13.150-13.250	4.77e+005
	13.350	13.300-13.400	4.35e+005
10 Heptachlor	8.908	8.858-8.958	5.09e+006
11 Aldrin	9.858	9.808-9.908	4.67e+006
12 Heptachlor epoxide	12.342	12.292-12.392	4.51e+006
13 gamma-Chlordane	13.200	13.150-13.250	4.58e+006
14 alpha-Chlordane	13.342	13.292-13.392	4.40e+006
15 Endosulfan I	13.042	12.992-13.092	3.97e+006
16 4,4'-DDE	13.542	13.492-13.592	4.35e+006
17 Dieldrin	13.817	13.767-13.867	4.14e+006
18 Toxaphene	15.000	14.950-15.050	6.65e+004
	15.117	15.067-15.167	5.65e+004
	15.442	15.392-15.492	5.24e+004
	16.267	16.217-16.317	5.68e+004

678 282
Report Date : 21-Mar-2001 10:03

6L
HP58903F
RT7-1721

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m

Compound	RT	RT Window	RF
20 Endrin	14.217	14.167-14.267	3.60e+006
21 4,4'-DDD	14.925	14.875-14.975	2.91e+006
22 Endosulfan II	15.033	14.983-15.083	3.27e+006
23 4,4'-DDT	15.183	15.133-15.233	2.81e+006
24 Endrin aldehyde	15.758	15.708-15.808	1.77e+006
25 Methoxychlor	16.250	16.200-16.300	1.26e+006
26 Endosulfan sulfate	16.375	16.325-16.425	2.21e+006
27 Endrin ketone	17.233	17.183-17.283	2.38e+006
\$ 30 Decachlorobiphenyl	19.533	19.483-19.583	1.87e+006

Report Date : 21-Mar-2001 10:03

62
HP58903F
RT7-1721

678 283

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 20-MAR-2001 11:02
End Cal Date : 20-MAR-2001 16:28
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Cal Date : 21-Mar-2001 10:02 eppingerd
Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2141.d
Level 2: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2142.d
Level 3: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2143.d
Level 4: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2144.d
Level 5: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2145.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
-----	-----	-----	-----	-----	-----	-----	-----
5 alpha-BHC	7284000	6174100	6428160	5873360	5210670	6194058	12.277
6 gamma-BHC (Lindane)	6604600	5518900	5667000	5301760	4660740	5550600	12.673
7 beta-BHC	3195400	2914800	2621800	2409620	2072880	2642900	16.482
8 delta-BHC	5973000	5670300	5317440	4996780	4410230	5273550	11.497
9 Chlordane(1)	+++++	+++++	197080	+++++	+++++	197080	0.000
(2)	+++++	+++++	264716	+++++	+++++	264716	0.000
(3)	+++++	+++++	477092	+++++	+++++	477092	0.000
(4)	+++++	+++++	435384	+++++	+++++	435384	0.000
10 Heptachlor	6124800	4969400	5241360	4844720	4245410	5085138	13.488
11 Aldrin	5463000	5166100	4712240	4336400	3694590	4674466	14.896
12 Heptachlor epoxide	5168200	4881500	4560400	4227160	3690190	4505490	12.778
13 gamma-Chlordane	5133600	4926800	4595960	4336080	3902380	4578964	10.619
14 alpha-Chlordane	4923600	4749100	4426120	4183360	3737200	4403876	10.668
15 Endosulfan I	4493800	3830700	4099080	3930880	3507770	3972446	9.125
16 4,4'-DDE	4717400	4600900	4416200	4210340	3807250	4350418	8.259
17 Dieldrin	4360400	4013000	4285840	4190360	3847560	4139432	5.039
18 Toxaphene(1)	+++++	+++++	66456	+++++	+++++	66456	0.000
(2)	+++++	+++++	56457	+++++	+++++	56457	0.000
(3)	+++++	+++++	52431	+++++	+++++	52431	0.000
(4)	+++++	+++++	56790	+++++	+++++	56790	0.000
20 Endrin	3731800	3502800	3709920	3651460	3398140	3598824	3.986
21 4,4'-DDD	2881000	2833800	3003360	2999680	2848810	2913330	2.825
22 Endosulfan II	3427200	3338100	3317600	3236140	3037840	3271376	4.499
23 4,4'-DDT	2740000	2695400	2888960	2915440	2833690	2814698	3.363
24 Endrin aldehyde	1814200	1782000	1774680	1789960	1685870	1769342	2.768
25 Methoxychlor	1282400	1201900	1292200	1278150	1235015	1257933	3.039

678 284

Report Date : 21-Mar-2001 10:03

6E
HP58903F
RTZ-17C1

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 20-MAR-2001 11:02
End Cal Date : 20-MAR-2001 16:28
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Cal Date : 21-Mar-2001 10:02 eppingerd
Curve Type : Average

	0.00500	0.01000	0.02500	0.05000	0.10000		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	± RSD
26 Endosulfan sulfate	2200800	2182400	2238760	2270820	2163970	2211350	1.956
27 Endrin ketone	2447800	2390800	2432080	2383160	2263810	2383530	3.031
\$ 1 Tetrachloro-m-xylene	5897000	4806800	4718680	4236320	3628230	4657406	17.961
\$ 30 Decachlorobiphenyl	2005400	1852700	1934480	1855540	1708210	1871266	5.925

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

678 285

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/20/01 03/20/01

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

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

EPA Sample No. (PEM): _____ Date Analyzed : 03/20/01

Lab Sample ID (PEM): EVALB Time Analyzed : 1033

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.22	14.17	14.27	0.02575	0.02500	3.0
4,4'-DDT	15.18	15.13	15.23	0.02573	0.02500	2.9

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

~~0.56~~
0.8

Endrin % breakdown (1):

~~4.57~~
2.6

Combined % breakdown (1):

~~5.13~~
3.4 DE
321-01

678 286

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 4140-G

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/20/01 03/20/01

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 03/20/01

Lab Sample ID (PEM): EVALB

Time Analyzed : 1757

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.22	14.17	14.27	0.02607	0.02500	4.3
4,4'-DDT	15.18	15.13	15.23	0.02648	0.02500	5.9

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

~~0.51~~ 0.7

Endrin % breakdown (1):

~~4.88~~ 2.7

Combined % breakdown (1):

~~5.39~~ 3.4 DE 3-21-01

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

678 287

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/20/01 03/20/01

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

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

EPA Sample No. (PEM): _____ Date Analyzed : 03/21/01

Lab Sample ID (PEM): EVALB Time Analyzed : 1104

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.22	14.17	14.27	0.02632	0.02500	5.3
4,4'-DDT	15.18	15.13	15.23	0.02558	0.02500	2.3

4,4'-DDT % breakdown (1): 0.68 ^{1.0} Endrin % breakdown (1): 1.14 ^{0.6}

Combined % breakdown (1): 1.82 ^{1.6} ^{DE 3-21-01}

678 288

7E HP58903F

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2163.d
Report Date: 21-Mar-2001 10:12

RT7-1721

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 01:21
 Lab File ID: C-B2163.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
 Analysis Type: Init. Cal. Times: 11:02 16:28
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX
RRF	RFO	RRF	%D	%D
1 Tetrachloro-m-xylene	4657406	4910400	0.000	5.4
5 alpha-BHC	6194058	6478840	0.010	4.6
6 gamma-BHC (Lindane)	5550600	5753760	0.010	3.7
10 Heptachlor	5085138	5356400	0.010	5.3
15 Endosulfan I	3972446	4073720	0.010	2.5
17 Dieldrin	4139432	4204120	0.010	1.6
20 Endrin	3598824	3789240	0.010	5.3
21 4,4'-DDD	2913330	2982520	0.010	2.4
23 4,4'-DDT	2814698	2890800	0.010	2.7
25 Methoxychlor	1257933	1318680	0.010	4.8
30 Decachlorobiphenyl	1871266	1914640	0.010	2.3

TE HY589031
 Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2164.d RT7-1721
 Report Date: 21-Mar-2001 10:12

678 289

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 01:51
 Lab File ID: C-B2164.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
 Analysis Type: Init. Cal. Times: 11:02 16:28
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m

COMPOUND	RRF	RFO	MIN	MAX	
			%D	%D	
11 Aldrin	4674466	4683800	0.010	0.2	15.0
7 beta-BHC	2642900	2603280	0.010	-1.5	15.0
8 delta-BHC	5273550	5325000	0.010	1.0	15.0
12 Heptachlor epoxide	4505490	4504600	0.010	-0.0	15.0
13 gamma-Chlordane	4578964	4500160	0.010	-1.7	15.0
14 alpha-Chlordane	4403876	4346920	0.010	-1.3	15.0
16 4,4'-DDE	4350418	4336560	0.010	-0.3	15.0
22 Endosulfan II	3271376	3271880	0.010	0.0	15.0
24 Endrin aldehyde	1769342	1740000	0.010	-1.7	15.0
26 Endosulfan sulfate	2211350	2260320	0.010	2.2	15.0
27 Endrin ketone	2383530	2436640	0.010	2.2	15.0

678 290

7E HP58903F

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2168.d
Report Date: 21-Mar-2001 13:03

RT7-1701

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 11:33
 Lab File ID: C-B2168.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
 Analysis Type: Init. Cal. Times: 11:02 16:28
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m

COMPOUND	RRF	RFO	MIN	RRF	%D	MAX
=====	=====	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	4657406	5299080	0.000	13.8	15.0	
5 alpha-BHC	6194058	7152720	0.010	15.5	15.0	<-
6 gamma-BHC (Lindane)	5550600	6278880	0.010	13.1	15.0	
10 Heptachlor	5085138	5778600	0.010	13.6	15.0	
15 Endosulfan I	3972446	4370280	0.010	10.0	15.0	
17 Dieldrin	4139432	4487400	0.010	8.4	15.0	
20 Endrin	3598824	3934880	0.010	9.3	15.0	
21 4,4'-DDD	2913330	3097440	0.010	6.3	15.0	
23 4,4'-DDT	2814698	2972680	0.010	5.6	15.0	
25 Methoxychlor	1257933	1327780	0.010	5.6	15.0	
\$ 30 Decachlorobiphenyl	1871266	1969040	0.010	5.2	15.0	

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2169.d
Report Date: 21-Mar-2001 13:03

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 12:03
Lab File ID: C-B2169.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
Analysis Type: Init. Cal. Times: 11:02 16:28
Lab Sample ID: MEDB Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m

COMPOUND	RRF	RFO	MIN RRF	%D	MAX %D
11 Aldrin	4674466	5001800	0.010	7 0	15.0
7 beta-BHC	2642900	2802640	0.010	6 0	15 0
8 delta-BHC	5273550	5709720	0.010	8.3	15.0
12 Heptachlor epoxide	4505490	4727920	0.010	4.9	15.0
13 gamma-Chlordane	4578964	4737400	0.010	3 5	15 0
14 alpha-Chlordane	4403876	4551840	0.010	3.4	15.0
16 4,4'-DDE	4350418	4523120	0.010	4.0	15.0
22 Endosulfan II	3271376	3349320	0.010	2 4	15.0
24 Endrin aldehyde	1769342	1819080	0.010	2.8	15 0
26 Endosulfan sulfate	2211350	2367920	0.010	7 1	15.0
27 Endrin ketone	2383530	2491200	0.010	4 5	15.0

92.2.3

678 292

7E HP58903F

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2172.d
Report Date: 21-Mar-2001 15:34

RTZ-1721

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 13:32
 Lab File ID: C-B2172.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
 Analysis Type: Init. Cal. Times: 11:02 16:28
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m

COMPOUND	RRF	RFO	MIN	%D	MAX
\$ 1 Tetrachloro-m-xylene	4657406	5329640	0.000	14.4	15.0
5 alpha-BHC	6194058	7101120	0.010	14.6	15.0
6 gamma-BHC (Lindane)	5550600	6282480	0.010	13.2	15.0
10 Heptachlor	5085138	5827040	0.010	14.6	15.0
15 Endosulfan I	3972446	4417960	0.010	11.2	15.0
17 Dieldrin	4139432	4540880	0.010	9.7	15.0
20 Endrin	3598824	4018200	0.010	11.7	15.0
21 4,4'-DDD	2913330	3139320	0.010	7.8	15.0
23 4,4'-DDT	2814698	3023920	0.010	7.4	15.0
25 Methoxychlor	1257933	1360180	0.010	8.1	15.0
\$ 30 Decachlorobiphenyl	1871266	1990040	0.010	6.3	15.0

72 H458903F
 07-17C1

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2173.d
 Report Date: 21-Mar-2001 15:34

STL-Pittsburgh

678 293

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 14:02
 Lab File ID: C-B2173.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
 Analysis Type: Init. Cal. Times: 11:02 16:28
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m

COMPOUND	RRF	RFO	MIN		MAX
			RRF	%D	%D
11 Aldrin	4674466	5019120	0.010	7.4	15.0
7 beta-BHC	2642900	2766640	0.010	4.7	15.0
8 delta-BHC	5273550	5659640	0.010	7.3	15.0
12 Heptachlor epoxide	4505490	4752000	0.010	5.5	15.0
13 gamma-Chlordane	4578964	4728000	0.010	3.3	15.0
14 alpha-Chlordane	4403876	4572680	0.010	3.8	15.0
16 4,4'-DDE	4350418	4509600	0.010	3.7	15.0
22 Endosulfan II	3271376	3377680	0.010	3.2	15.0
24 Endrin aldehyde	1769342	1843680	0.010	4.2	15.0
26 Endosulfan sulfate	2211350	2405560	0.010	8.8	15.0
27 Endrin ketone	2383530	2533080	0.010	6.3	15.0

Lab Name: :

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

GC Column: RTX-1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/20/01 03/20/01

Instrument ID: GC3

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
TCX: 4.23			DCB: 19.53		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	EVALB	03/20/01	1033	4.23	19.53
02	MEDTOX	03/20/01	1102	4.23	19.53
03	MEDCHLOR	03/20/01	1132	4.23	19.53
04	LOWA	03/20/01	1202	4.23	19.53
05	MLOWA	03/20/01	1231	4.23	19.53
06	MEDA	03/20/01	1301	4.23	19.53
07	MHIGHA	03/20/01	1331	4.23	19.53
08	HIGHA	03/20/01	1400	4.23	19.53
09	LOWB	03/20/01	1430		
10	MLOWB	03/20/01	1459		
11	MEDB	03/20/01	1529		
12	MHIGHB	03/20/01	1559		
13	HIGHB	03/20/01	1628		
14	2ND A	03/20/01	1658	4.23	19.53
15	2ND B	03/20/01	1728		
16	EVALB	03/20/01	1757	4.23	19.53
17	DF/24-B/1073 DXGMH1AD	03/20/01	1827	4.23	19.53
18	PBLK5434 DXJT71AA	03/20/01	1856	4.23	19.53
19	MEDA	03/21/01	0121	4.23	19.53
20	MEDB	03/21/01	0151		
21	EVALB	03/21/01	1104	4.23	19.55
22	MEDA	03/21/01	1133	4.23	19.55
23	MEDE	03/21/01	1203		
24	LCS5434 DXJT71AC	03/21/01	1233	4.23	19.55
25	LCD5434 DXJT71AD	03/21/01	1302	4.23	19.54
26	MEDA	03/21/01	1332	4.23	19.55
27	MEDB	03/21/01	1402		
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.

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2133.d
Lab Smp Id: EVALB
Inj Date : 20-MAR-2001 10:33
Operator : 010139 Inst ID: gc3.i
Smp Info : EVALB,2201-E.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:07 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	4.233	4.225	0.008	98596	0.02117	0.02117(R)
16 4,4'-DDE	13.541	13.541	0.000	612	<0.0	0.0001407(M)
20 Endrin	14.216	14.216	0.000	92659	0.02575	0.02575
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.183	15.183	0.000	72435	0.02573	0.02573
24 Endrin aldehyde	15.766	15.758	0.008	735	<0.0	0.0004154(M)
27 Endrin ketone	17.233	17.233	0.000	1734	<0.0	0.0007275(M)
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	39081	0.02088	0.02088(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

DDT 0.87%
ENDRIN 2.67%

Date File: \\np1tpa02\chem\gc3.1\2201-E.b\c-B2133.d
Date : 20-MAR-2001 10:33

Client ID:

Sample Info: EVALB,2201-E.b.,EVALBR,sub.,3,1

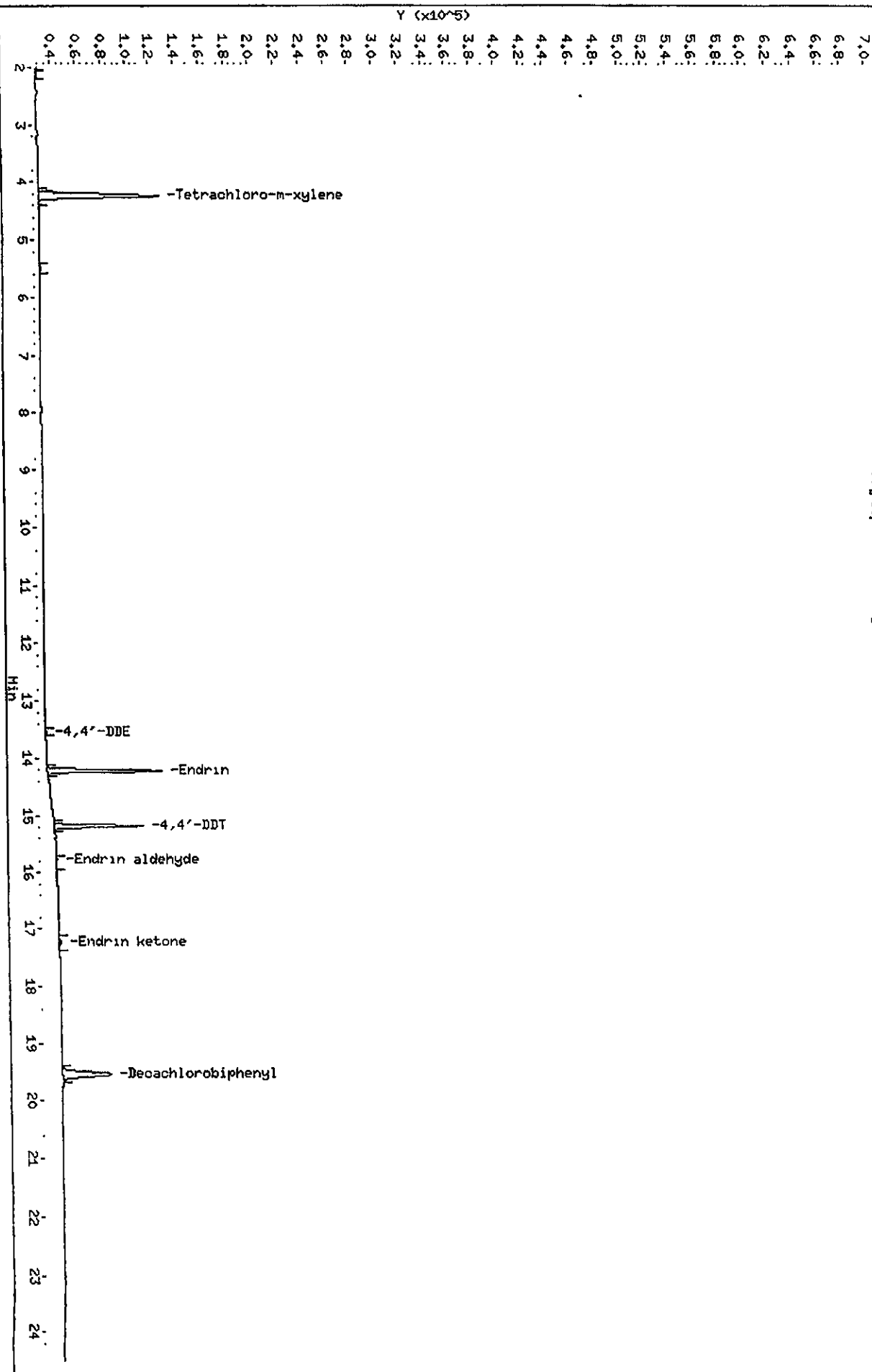
Column phase: RTX-1701

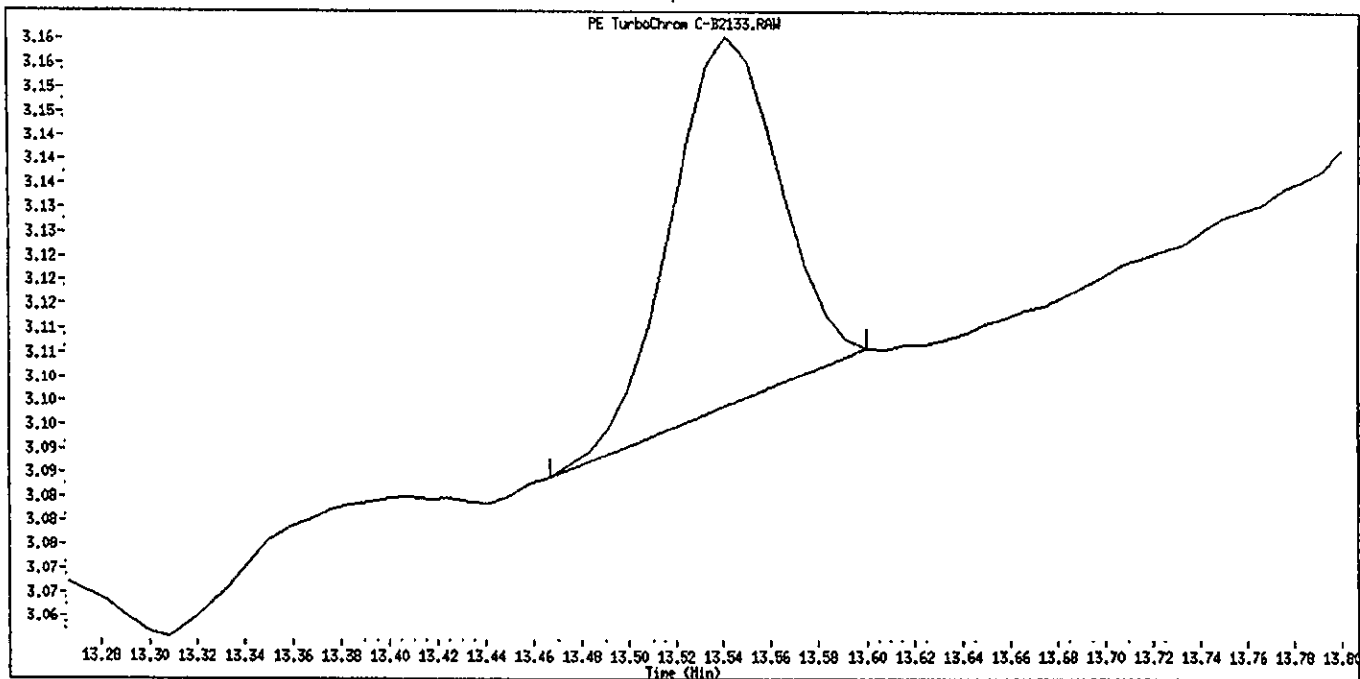
678 296
Instrument: gc3.1

Operator: 010139

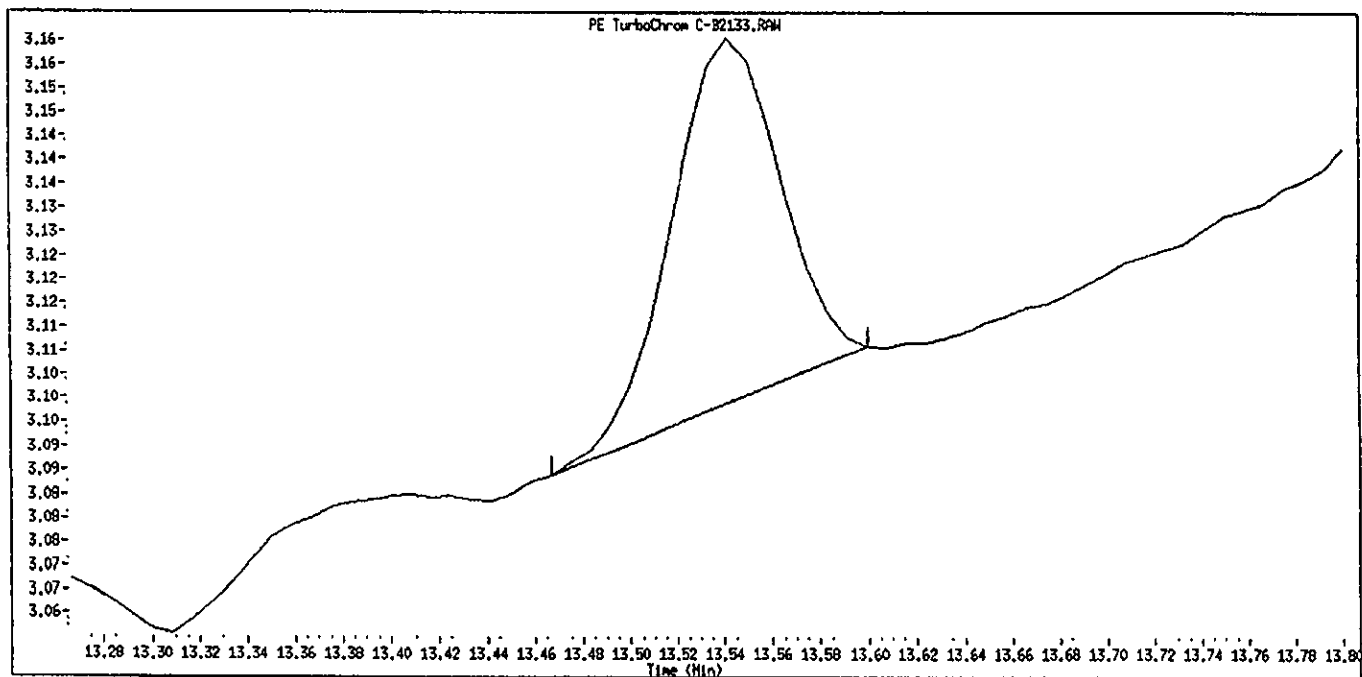
Column diameter: 0.53

\\np1tpa02\chem\gc3.1\2201-E.b\c-B2133.d\c-B2133.RM





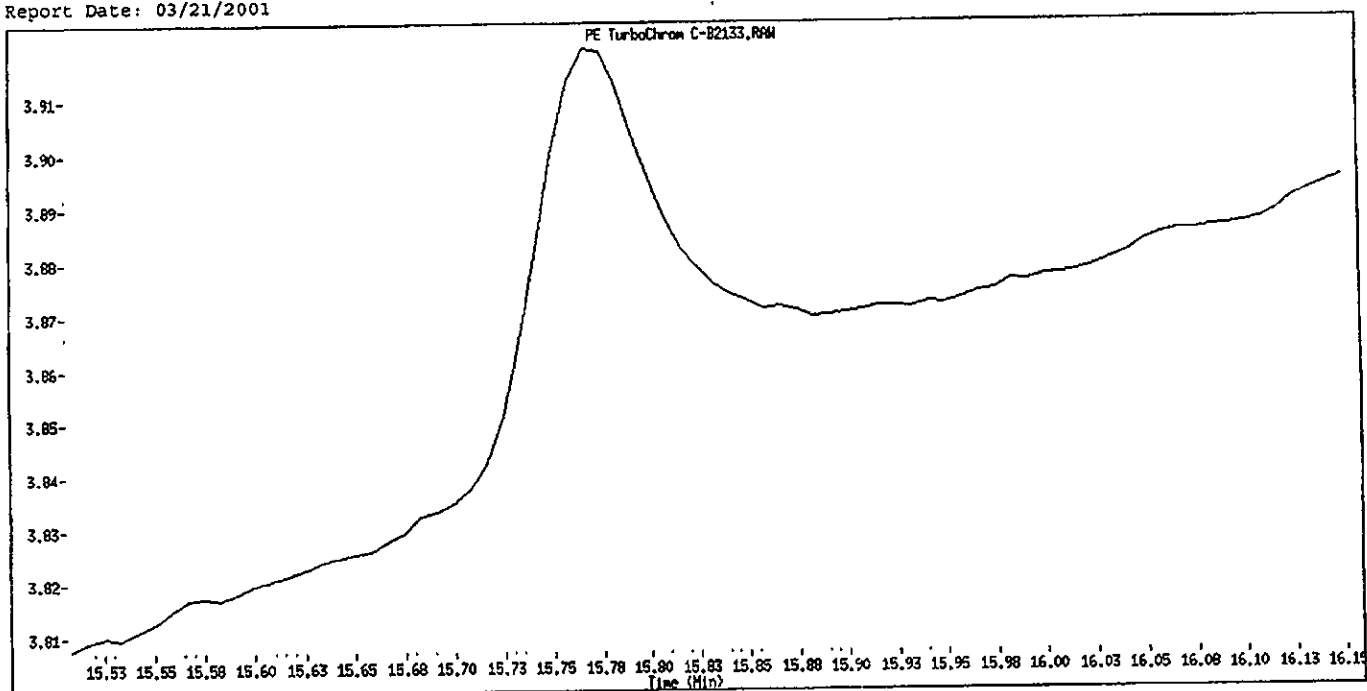
Original Integration



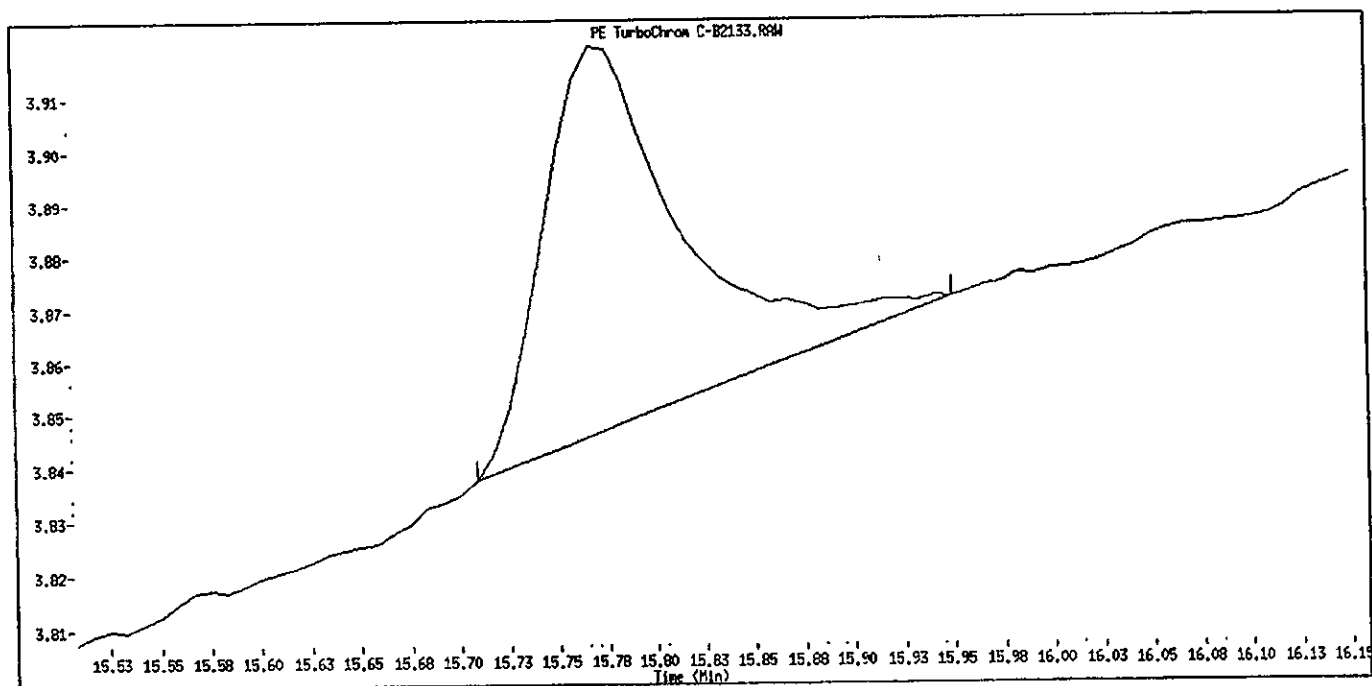
Manual Integration

Manually Integrated By: EppingerD

Manual Integration Reason: Peak Not Found



Original Integration



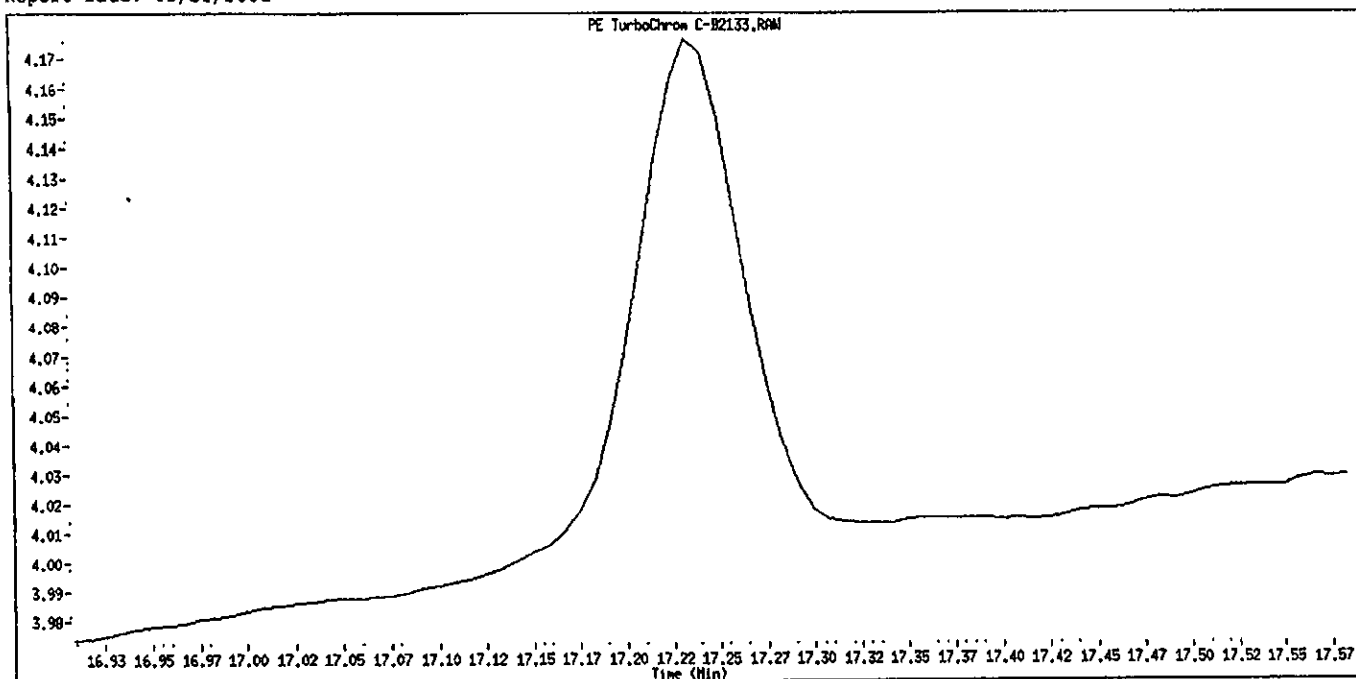
Manual Integration

Manually Integrated By EppingerD

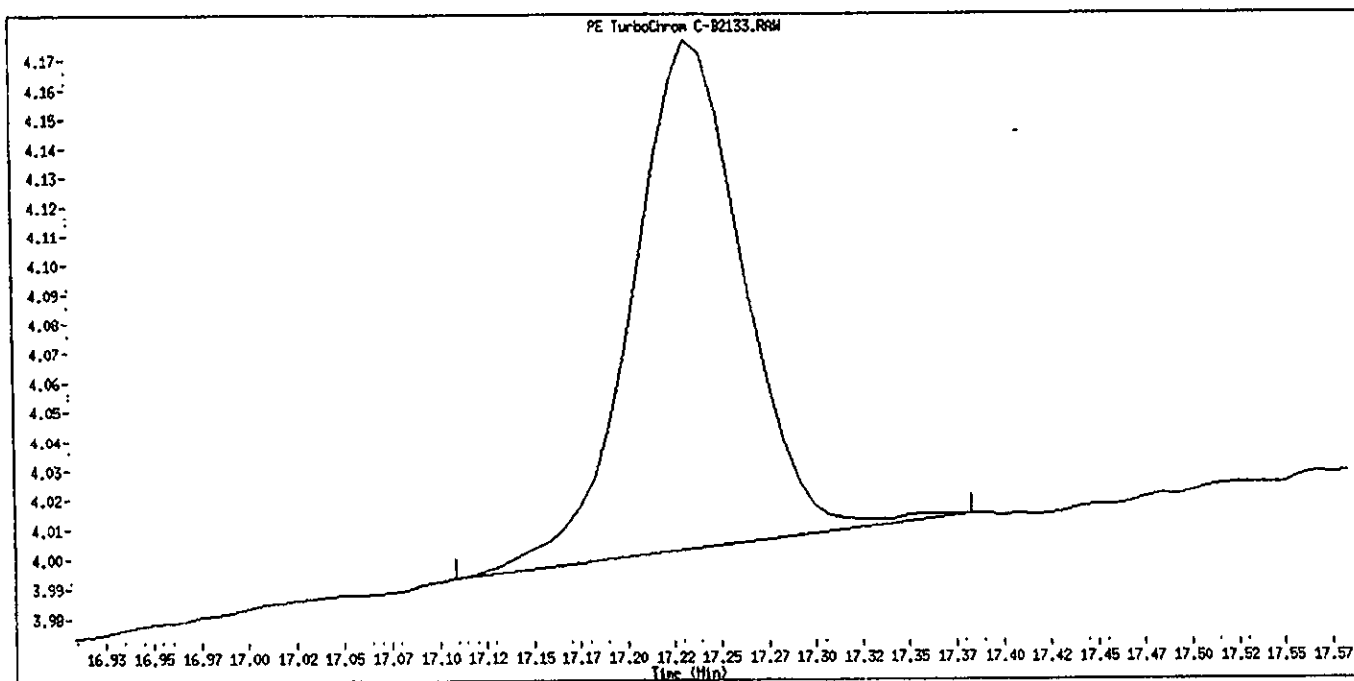
Manual Integration Reason Peak Not Found

Data File Name. C-B2133.d
Inj Date and Time: 20-MAR-2001 10:33
Instrument ID gc3 i
Client ID:
Compound Name. Endrin ketone
CAS #: 53494-70-5
Report Date. 03/21/2001

678 299



Original Integration



Manual Integration

Manually Integrated By EppingerD
Manual Integration Reason Peak Not Found

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2134.d
Lab Smp Id: MEDTOX
Inj Date : 20-MAR-2001 11:02
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDTOX,2201-E.b,,1-TOX.sub,,1,3
Misc Info : 190-123-13
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:00 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 11:02 Cal File: C-B2134.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
18 Toxaphene	15.000	15.000	0.000	66456	1.00000	1.000(M)
\$ 1 Tetrachloro-m-xylene	4.233	4.225	0.008	109199	0.02500	0.02500
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	46046	0.02500	0.02500

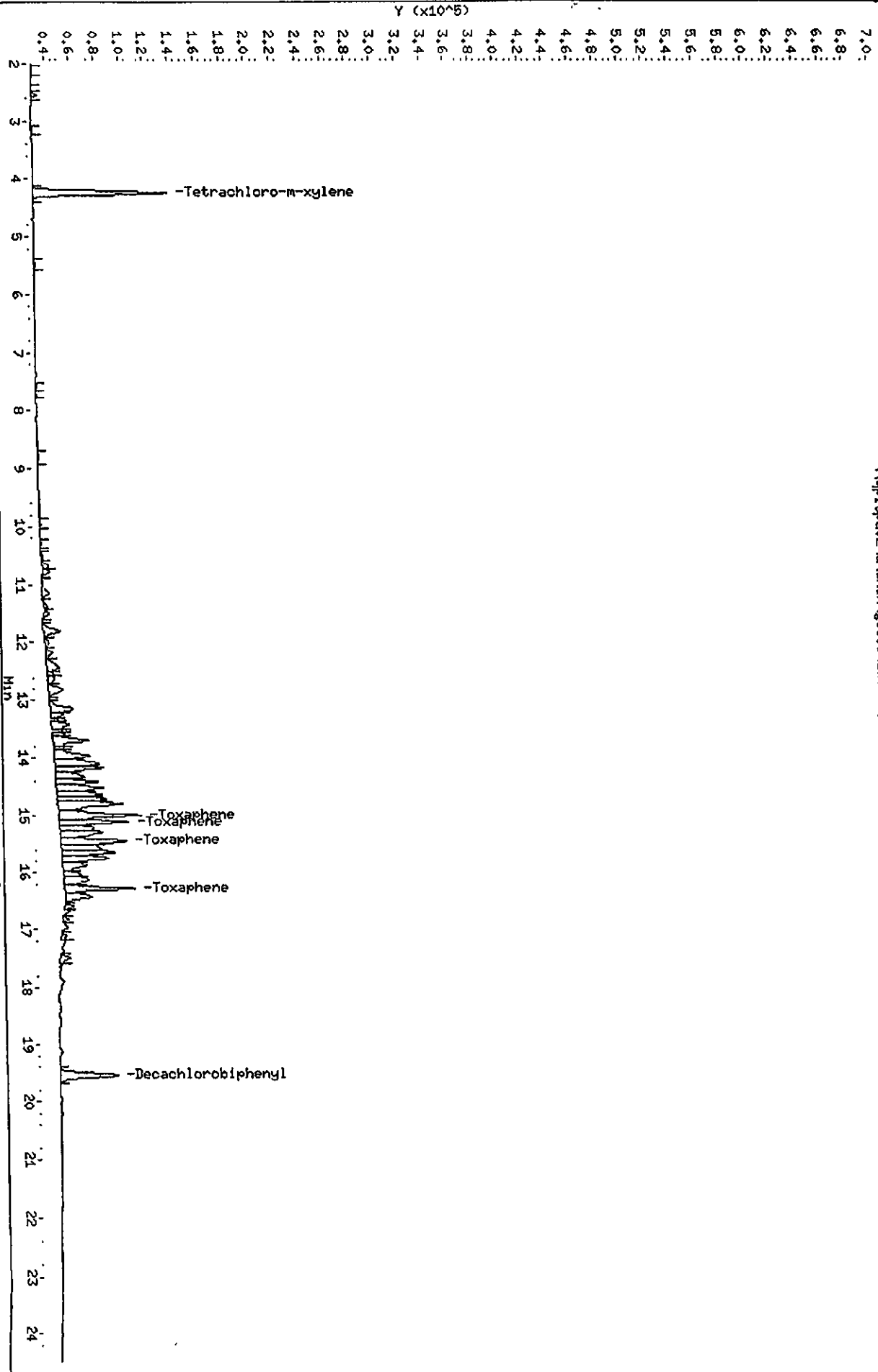
QC Flag Legend

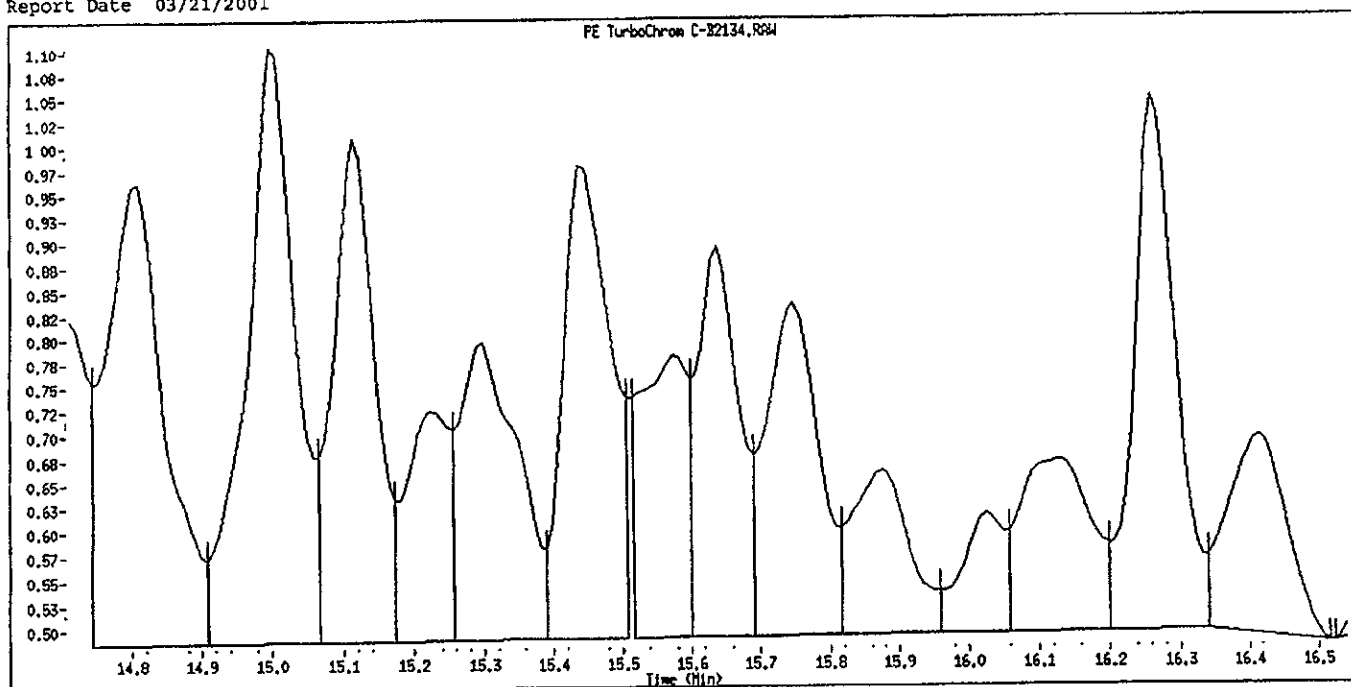
M - Compound response manually integrated.

Data File: \\p1tpa02\chem\gc3.1\2201-E.b\C-B2134.d
 Date: 20-HR-2001 11:02
 Client ID:
 Sample Info: HEDTOX, 2201-E.b, 1-TOX, sub, 1,3
 Column phase: RTX-1701

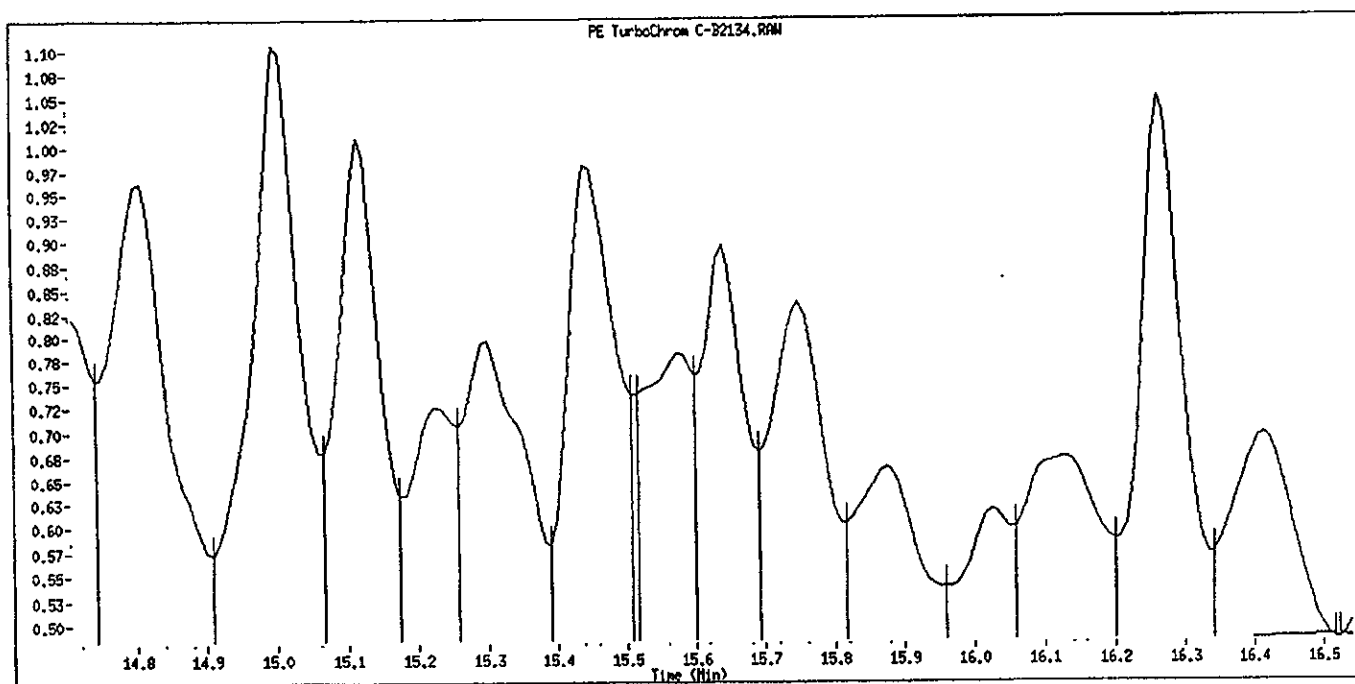
Instrument: gc3.1
 Operator: 010139
 Column diameter: 0.53

\\p1tpa02\chem\gc3.1\2201-E.b\C-B2134.d/C-B2134.RAW



678 302

Original Integration



Manual Integration

Manually Integrated By: EppingerD

Manual Integration Reason Poor Chromatography

STL-Pittsburgh

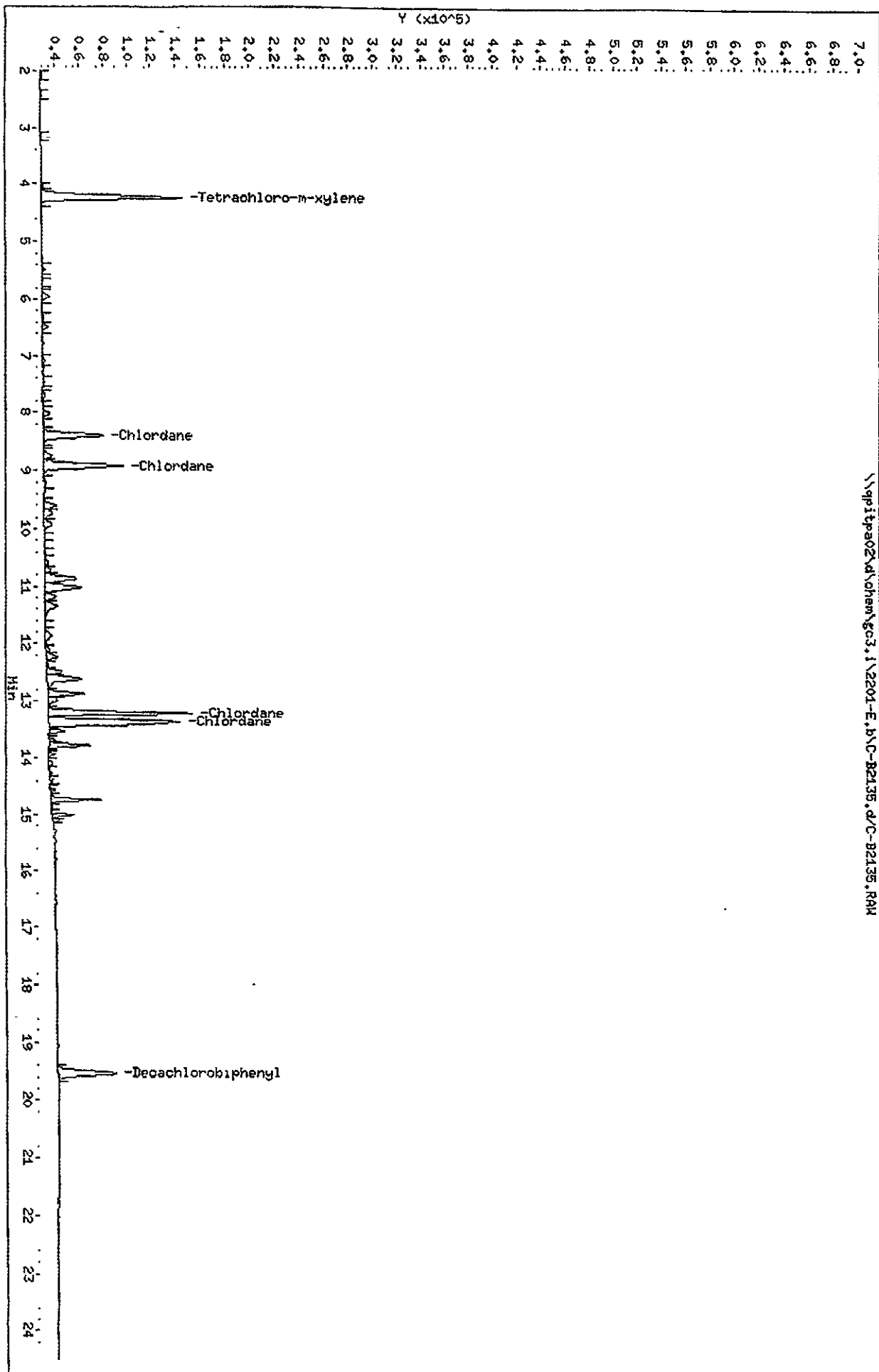
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2135.d
Lab Smp Id: MEDCHLOR
Inj Date : 20-MAR-2001 11:32
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDCHLOR,2201-E.b,,2-CHLO.sub,,1,3
Misc Info : 190-123-14
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:00 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 11:32 Cal File: C-B2135.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
9 Chlordane	8.391	8.391	0.000	49270	0.25000	0.2500
\$ 1 Tetrachloro-m-xylene	4.233	4.225	0.008	115793	0.02500	0.02500
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	47914	0.02500	0.02500

Data File: \\ppitpa02\chem\gc3.1\2201-E.b\C-B2135.d
Date: 20-MAR-2001 14:32
Client ID:
Sample Info: MEDCHLOR, 2201-E.b, 2-CHLO, sub, 1, 3
Column phase: RTX-1701

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\ppitpa02\chem\gc3.1\2201-E.b\C-B2135.d\C-B2135.RAW



STL-Pittsburgh

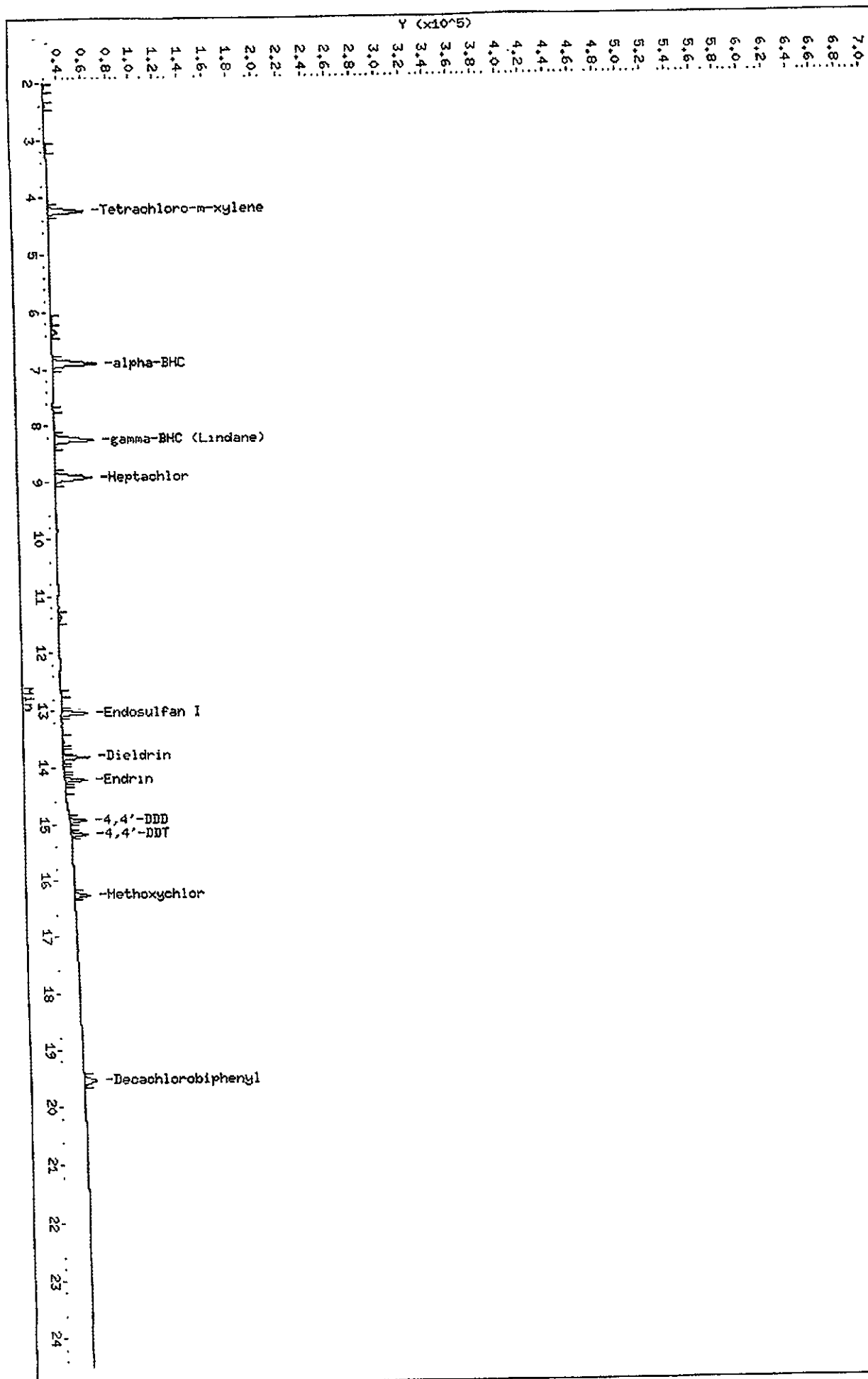
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2136.d
 Lab Smp Id: LOWA
 Inj Date : 20-MAR-2001 12:02
 Operator : 010139 Inst ID: gc3.i
 Smp Info : LOWA,2201-E.b,,3-INDA.sub,,1,1
 Misc Info : 190-124-1
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 10:00 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 12:02 Cal File: C-B2136.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	4.233	4.225	0.008	29485	0.00500	0.005601
5 alpha-BHC	6.900	6.891	0.009	36420	0.00500	0.005000
6 gamma-BHC (Lindane)	8.241	8.241	0.000	33023	0.00500	0.005000
10 Heptachlor	8.916	8.908	0.008	30624	0.00500	0.005000
15 Endosulfan I	13.041	13.041	0.000	22469	0.00500	0.005000
17 Dieldrin	13.816	13.816	0.000	21802	0.00500	0.005000
20 Endrin	14.216	14.216	0.000	18659	0.00500	0.005000
21 4,4'-DDD	14.925	14.925	0.000	14405	0.00500	0.005000
23 4,4'-DDT	15.183	15.183	0.000	13700	0.00500	0.005000
25 Methoxychlor	16.250	16.250	0.000	12824	0.01000	0.01000
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	10027	0.00500	0.005113

Data File: \\apitpa02\chem\gc3.1\2201-E.b\C-B2136.d
Date: 20-MAR-2001 12:02
Client ID:
Sample Info: L049,2201-E.b,3-INDA,sub,1,1
Column phase: RTX-1701

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\apitpa02\chem\gc3.1\2201-E.b\C-B2136.d\C-B2136.R04



STL-Pittsburgh

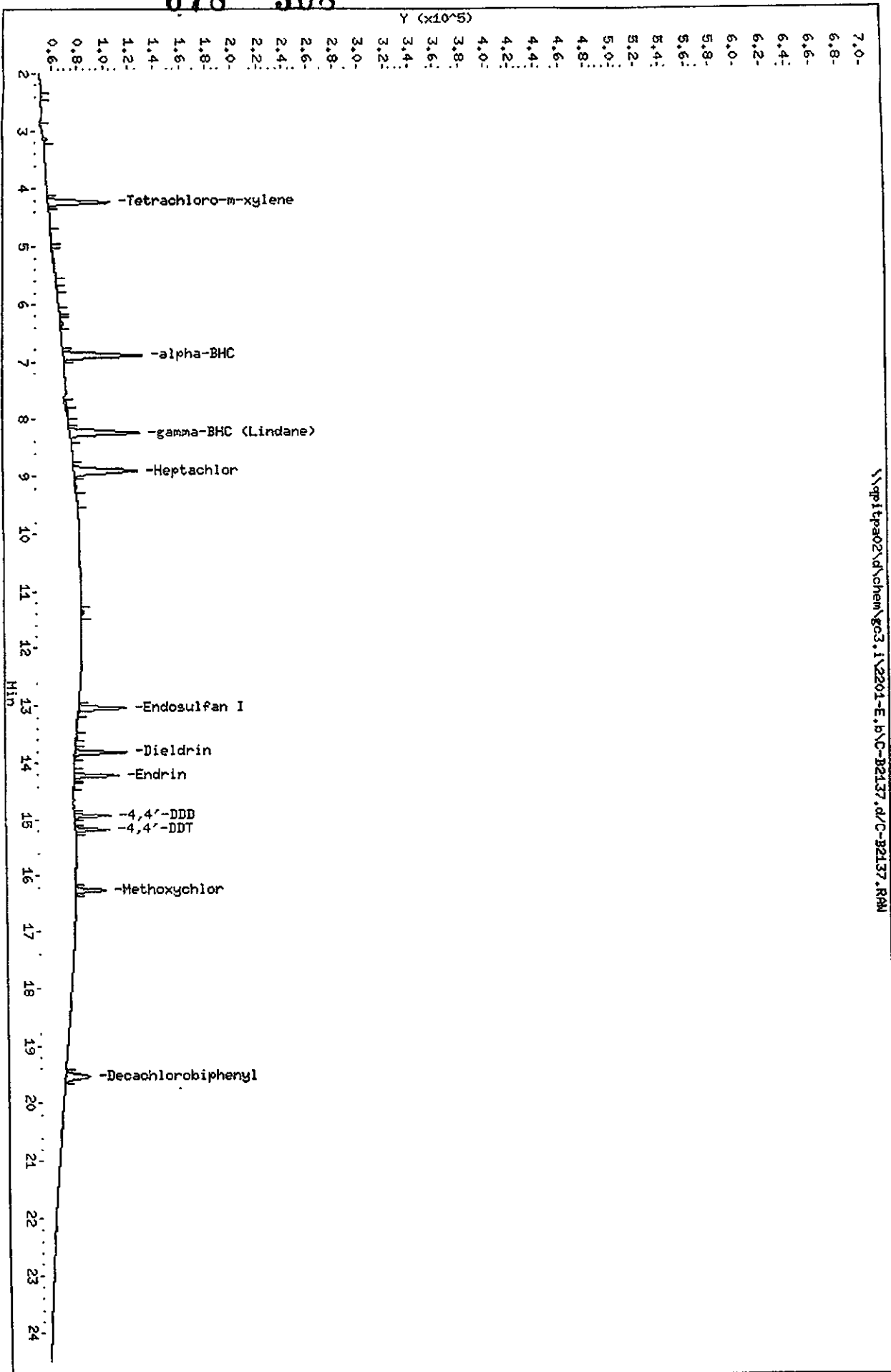
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2137.d
Lab Smp Id: MLOWA
Inj Date : 20-MAR-2001 12:31
Operator : 010139 Inst ID: gc3.i
Smp Info : MLOWA,2201-E.b,,3-INDA.sub,,1,2
Misc Info : 190-124-2
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:00 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 12:31 Cal File: C-B2137.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	--	*****	*****	*****	*****	*****
\$ 1 Tetrachloro-m-xylene	4.233	4.225	0.008	48068	0.01000	0.009403
5 alpha-BHC	6.891	6.891	0.000	61741	0.01000	0.009175
6 gamma-BHC (Lindane)	8.241	8.241	0.000	55189	0.01000	0.009104
10 Heptachlor	8.916	8.908	0.008	49694	0.01000	0.008958
15 Endosulfan I	13.041	13.041	0.000	38307	0.01000	0.009203
17 Dieldrin	13.816	13.816	0.000	40130	0.01000	0.009585
20 Endrin	14.216	14.216	0.000	35028	0.01000	0.009683
21 4,4'-DDD	14.925	14.925	0.000	28338	0.01000	0.009917
23 4,4'-DDT	15.183	15.183	0.000	26954	0.01000	0.009918
25 Methoxychlor	16.250	16.250	0.000	24038	0.02000	0.01935
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	18527	0.01000	0.009625

678 308

Data File: \\pittpa02\chem\gc3.1\2201-E.b\c-B2137.d
 Date : 20-MAR-2001 12:31
 Client ID:
 Sample Info: HLOMA,2201-E.b,3-INDA.sub,1,2
 Column phase: RTX-1701

Instrument: gc3.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2138.d
Report Date: 21-Mar-2001 10:01

678 309

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2138.d
Lab Smp Id: MEDA
Inj Date : 20-MAR-2001 13:01
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDA,2201-E.b,,3-INDA.sub,,1,3
Misc Info : 190-124-3
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:01 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 13:01 Cal File: C-B2138.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
-----	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	4.225	4.225	0.000	117967	0.02500	0.02295
5 alpha-BHC	6.891	6.891	0.000	160704	0.02500	0.02424
6 gamma-BHC (Lindane)	8.241	8.241	0.000	141675	0.02500	0.02389
10 Heptachlor	8.908	8.908	0.000	131034	0.02500	0.02406
15 Endosulfan I	13.041	13.041	0.000	102477	0.02500	0.02474
17 Dieldrin	13.816	13.816	0.000	107146	0.02500	0.02539
20 Endrin	14.216	14.216	0.000	92748	0.02500	0.02542
21 4,4'-DDD	14.925	14.925	0.000	75084	0.02500	0.02584
23 4,4'-DDT	15.183	15.183	0.000	72224	0.02500	0.02603
25 Methoxychlor	16.250	16.250	0.000	64610	0.05000	0.05132
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	48362	0.02500	0.02505

Data File: \\xp1tpa02\chem\gc3.1\2201-E.b\C-B2138.d
 Date: 20-MAR-2001 13:01

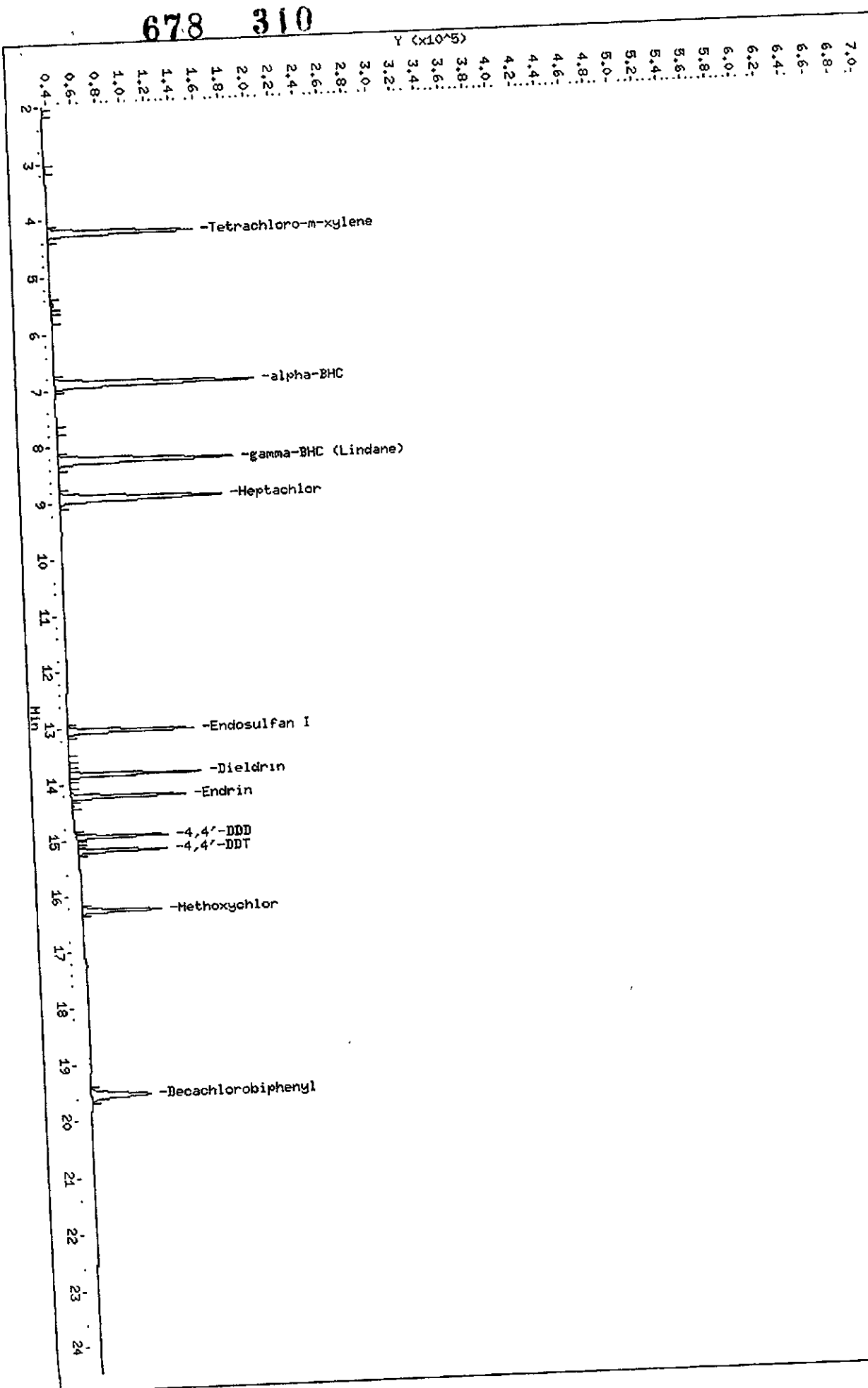
Client ID:
 Sample Info: MEDA, 2201-E.b, 3-INDA, sub, 1,3

Column phase: RTX-1701

Instrument: gc3.1

Operator: 010139
 Column diameter: 0.53

\\xp1tpa02\chem\gc3.1\2201-E.b\C-B2138.d\C-B2138.RAW



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2139.d
Report Date: 21-Mar-2001 10:01

678 311

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2139.d
Lab Smp Id: MHIGHA
Inj Date : 20-MAR-2001 13:31
Operator : 010139 Inst ID: gc3.i
Smp Info : MHIGHA, 2201-E.b, , 3-INDA.sub, , 1, 4
Misc Info : 190-124-4
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:01 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 13:31 Cal File: C-B2139.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	4.233	4.225	0.008	211816	0.05000	0.04310
5 alpha-BHC	6.891	6.891	0.000	293668	0.05000	0.04560
6 gamma-BHC (Lindane)	8.241	8.241	0.000	265088	0.05000	0.04592
10 Heptachlor	8.908	8.908	0.000	242236	0.05000	0.04575
15 Endosulfan I	13.041	13.041	0.000	196544	0.05000	0.04807
17 Dieldrin	13.816	13.816	0.000	209518	0.05000	0.04974
20 Endrin	14.216	14.216	0.000	182573	0.05000	0.05003
21 4,4'-DDD	14.925	14.925	0.000	149984	0.05000	0.05120
23 4,4'-DDT	15.183	15.183	0.000	145772	0.05000	0.05188
25 Methoxychlor	16.250	16.250	0.000	127815	0.10000	0.1011
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	92777	0.05000	0.04852

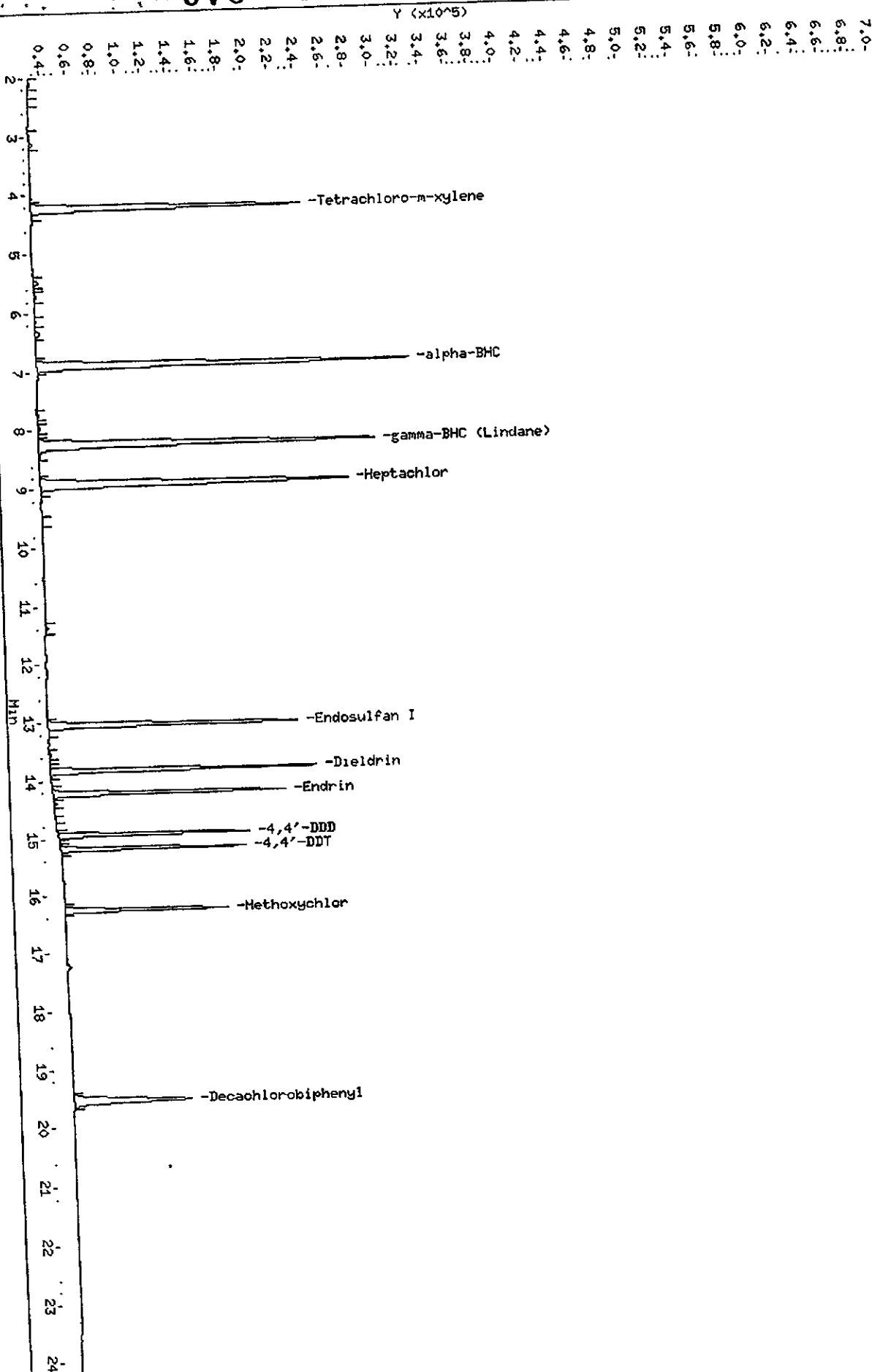
678 312

Data File: \\p1tpa02\chem\g03.1\2201-E.b\C-B2139.d
 Date: 20-MAR-2004 13:31
 Client ID:
 Sample Info: NHIGHA, 2201-E.b, 3-INRA, sub, 1,4

Column phase: RTX-1701

Instrument: g03.1
 Operator: 010139
 Column diameter: 0.53

\\p1tpa02\chem\g03.1\2201-E.b\C-B2139.d\C-B2139.RM



Data File: \\gpitpa02\d\chem\gc3.i\2201-E.b\C-B2140.d
Report Date: 21-Mar-2001 10:01

678 313

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc3.i\2201-E.b\C-B2140.d
Lab Smp Id: HIGHA
Inj Date : 20-MAR-2001 14:00
Operator : 010139 Inst ID: gc3.i
Smp Info : HIGHA,2201-E.b,,3-INDA.sub,,1,5
Misc Info : 190-124-5
Comment :
Method : \\gpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:01 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 14:00 Cal File: C-B2140.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	4.225	4.225	0.000	362823	0.10000	0.07790
5 alpha-BHC	6.891	6.891	0.000	521067	0.10000	0.08412
6 gamma-BHC (Lindane)	8.233	8.241	-0.008	466074	0.10000	0.08397
10 Heptachlor	8.908	8.908	0.000	424541	0.10000	0.08349
15 Endosulfan I	13.041	13.041	0.000	350777	0.10000	0.08830
17 Dieldrin	13.816	13.816	0.000	384756	0.10000	0.09295
20 Endrin	14.216	14.216	0.000	339814	0.10000	0.09442
21 4,4'-DDD	14.925	14.925	0.000	284881	0.10000	0.09778
23 4,4'-DDT	15.183	15.183	0.000	283369	0.10000	0.1007(A)
25 Methoxychlor	16.250	16.250	0.000	247003	0.20000	0.1964
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	170821	0.10000	0.09129

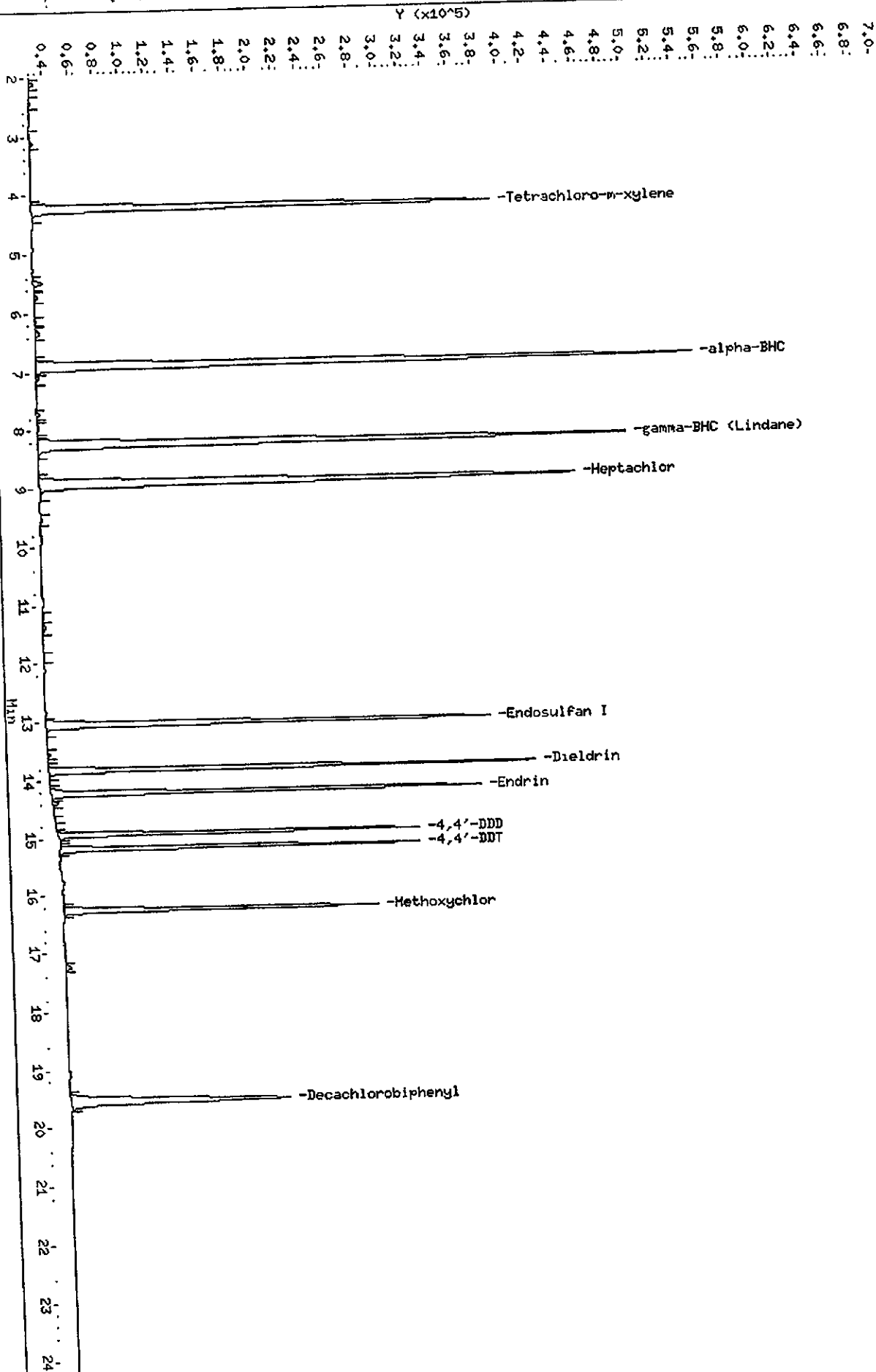
QC Flag Legend

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

678 314

Data File: \\gpi02\chem\g03.1\2201-E.b\C-B2140.d
 Date: 20-Mar-2001 14:00
 Client ID:
 Sample Info: HICHA, 2201-E.b, 3-INDA, sub, 1,5
 Column phase: RTX-1701

Instrument: g03.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2141.d
Report Date: 21-Mar-2001 10:01

678 315

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2141.d
Lab Smp Id: LOWB
Inj Date : 20-MAR-2001 14:30
Operator : 010139 Inst ID: gc3.i
Smp Info : LOWB,2201-E.b,,4-INDB.sub,,1,1
Misc Info : 190-124-7
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:01 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 14:30 Cal File: C-B2141.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC061

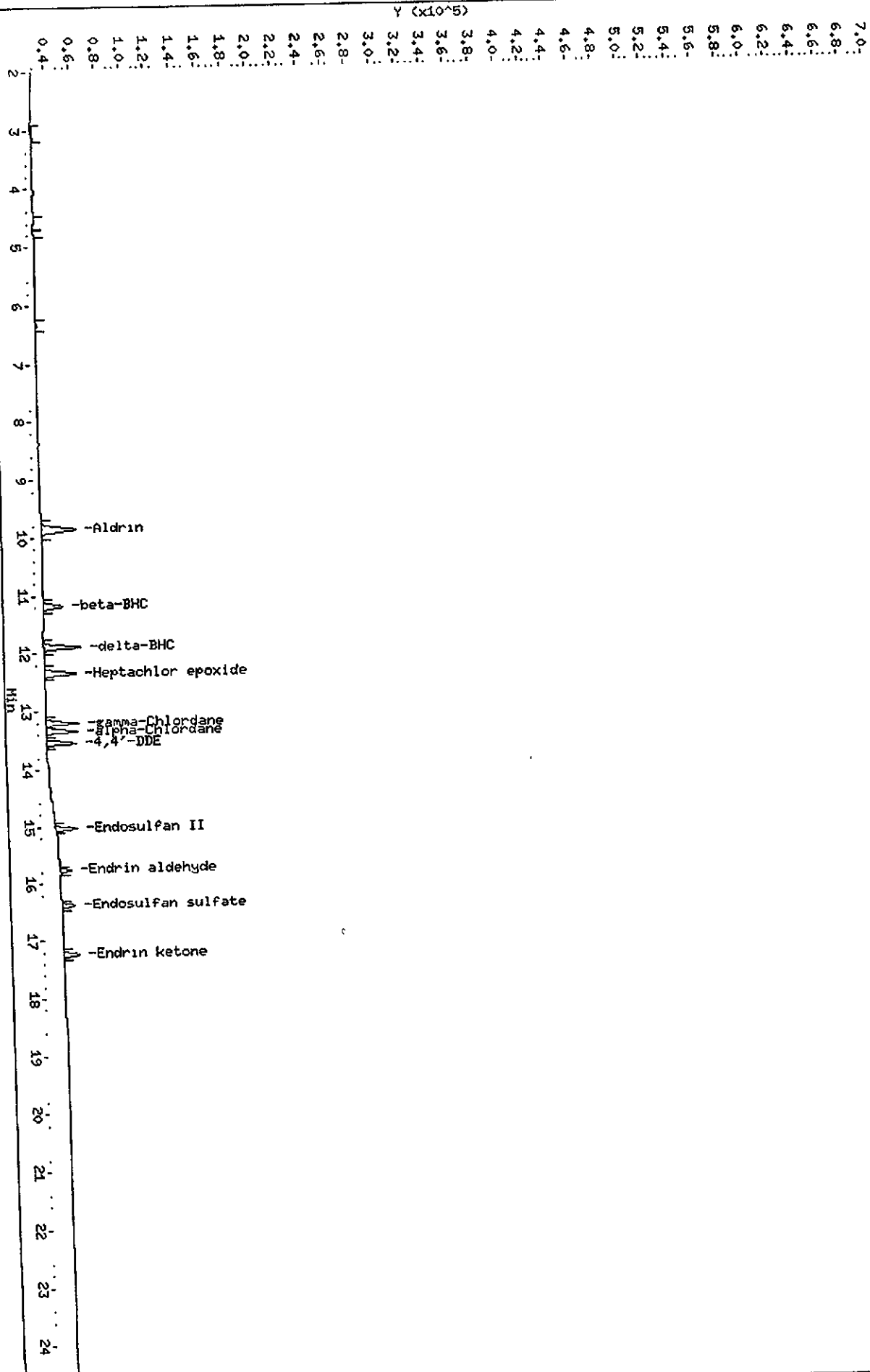
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	9.858	9.858	0.000	27315	0.00500	0.005000
7 beta-BHC	11.175	11.175	0.000	15977	0.00500	0.005000
8 delta-BHC	11.883	11.891	-0.008	29865	0.00500	0.005000
12 Heptachlor epoxide	12.341	12.341	0.000	25841	0.00500	0.005000
13 gamma-Chlordane	13.200	13.200	0.000	25668	0.00500	0.005000
14 alpha-Chlordane	13.341	13.341	0.000	24618	0.00500	0.005000
16 4,4'-DDE	13.541	13.541	0.000	23587	0.00500	0.005000
22 Endosulfan II	15.033	15.033	0.000	17136	0.00500	0.005000
24 Endrin aldehyde	15.758	15.758	0.000	9071	0.00500	0.005000
26 Endosulfan sulfate	16.375	16.375	0.000	11004	0.00500	0.005000
27 Endrin ketone	17.233	17.233	0.000	12239	0.00500	0.005000

678 316

Data File: \\ppitpa02\chem\gc3.1\2201-E.b\c-B2141.d
 Date: 20-Mar-2001 14:30
 Client ID:
 Sample Info: LOMB,2201-E.b,4-INDB.sub,1.1
 Column phase: RTX-1701

Instrument: gc3.1
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\gc3.1\2201-E.b\c-B2141.d/C-B2141.R01



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2142.d
 Report Date: 21-Mar-2001 10:02

STL-Pittsburgh

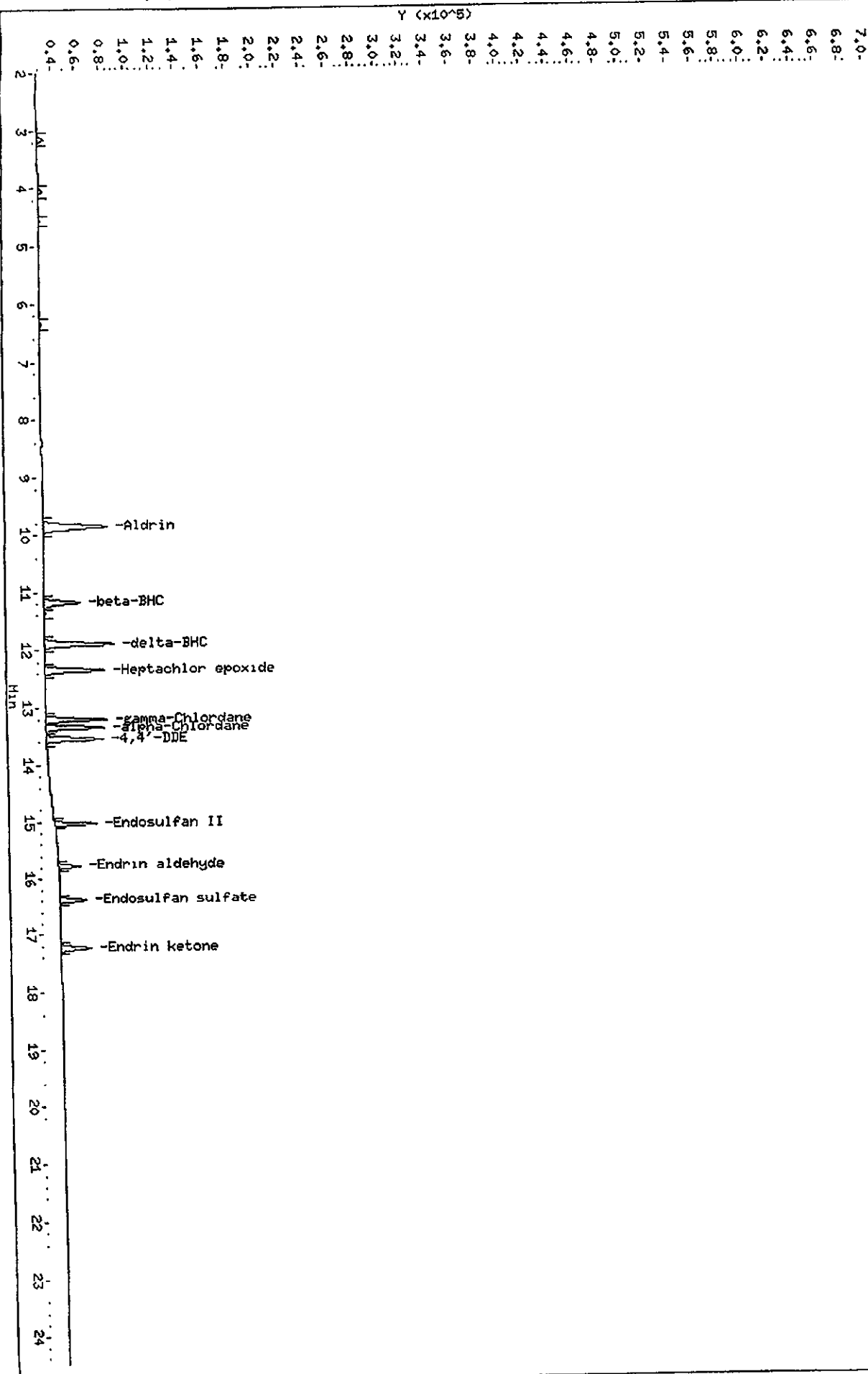
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2142.d
 Lab Smp Id: MLOWB
 Inj Date : 20-MAR-2001 14:59
 Operator : 010139 Inst ID: gc3.i
 Smp Info : MLOWB,2201-E.b,,4-INDB.sub,,1,2
 Misc Info : 190-124-8
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 10:02 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 14:59 Cal File: C-B2142.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	9.858	9.858	0.000	51661	0.01000	0.009721
7 beta-BHC	11.175	11.175	0.000	29148	0.01000	0.009541
8 delta-BHC	11.883	11.891	-0.008	56703	0.01000	0.009740
12 Heptachlor epoxide	12.341	12.341	0.000	48815	0.01000	0.009715
13 gamma-Chlordane	13.200	13.200	0.000	49268	0.01000	0.009794
14 alpha-Chlordane	13.341	13.341	0.000	47491	0.01000	0.009820
16 4,4'-DDE	13.541	13.541	0.000	46009	0.01000	0.009875
22 Endosulfan II	15.033	15.033	0.000	33381	0.01000	0.009868
24 Endrin aldehyde	15.758	15.758	0.000	17820	0.01000	0.009910
26 Endosulfan sulfate	16.375	16.375	0.000	21824	0.01000	0.009958
27 Endrin ketone	17.233	17.233	0.000	23908	0.01000	0.009882

Data File: \\pp1tpa02\chem\gc3.i\2201-E.b\C-B2142.d
Date: 20-MAR-2001 14:59
Client ID:
Sample Info: MLOMB, 2201-E.b, 4-INDB, sub, 1, 2
Column phase: RTX-1701

Instrument: gc3.i
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc3.i\2201-E.b\C-B2142.d\C-B2142.R01



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2143.d
 Report Date: 21-Mar-2001 10:02

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2143.d
 Lab Smp Id: MEDB
 Inj Date : 20-MAR-2001 15:29
 Operator : 010139
 Smp Info : MEDB,2201-E.b,,4-INDB.sub,,1,3
 Misc Info : 190-124-9
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 10:02 eppingerd
 Cal Date : 20-MAR-2001 15:29
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

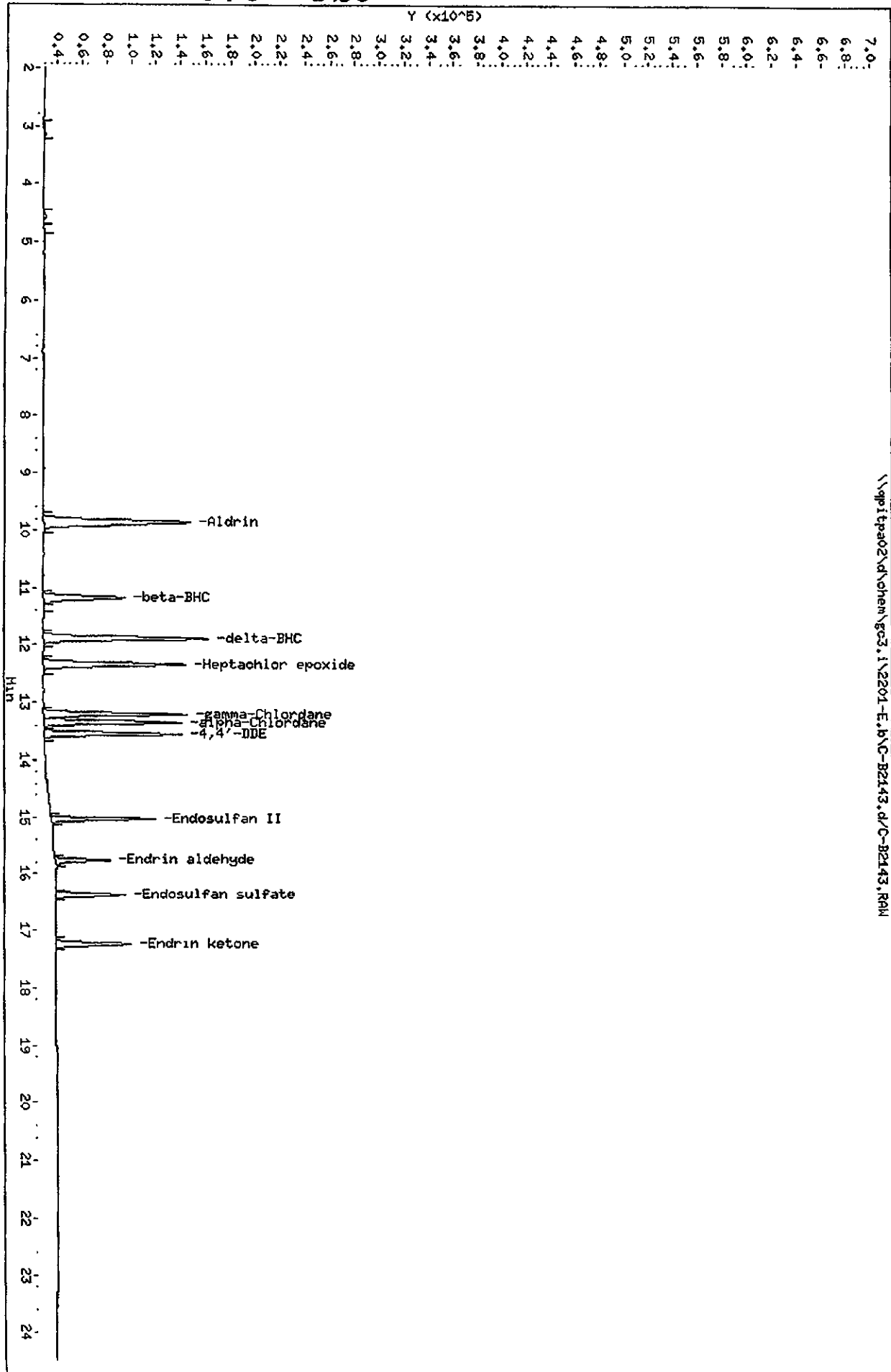
Inst ID: gc3.i
 Quant Type: ESTD
 Cal File: C-B2143.d
 Calibration Sample, Level: 3
 Compound Sublist: 4-INDB.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
-----	==	=====	=====	=====	=====	=====
11 Aldrin	9.858	9.858	0.000	117806	0.02500	0.02304
7 beta-BHC	11.175	11.175	0.000	65545	0.02500	0.02252
8 delta-BHC	11.891	11.891	0.000	132936	0.02500	0.02351
12 Heptachlor epoxide	12.341	12.341	0.000	114010	0.02500	0.02341
13 gamma-Chlordane	13.200	13.200	0.000	114899	0.02500	0.02352
14 alpha-Chlordane	13.341	13.341	0.000	110653	0.02500	0.02354
16 4,4'-DDE	13.541	13.541	0.000	110405	0.02500	0.02412
22 Endosulfan II	15.033	15.033	0.000	82940	0.02500	0.02468
24 Endrin aldehyde	15.758	15.758	0.000	44367	0.02500	0.02478
26 Endosulfan sulfate	16.375	16.375	0.000	55969	0.02500	0.02536
27 Endrin ketone	17.233	17.233	0.000	60802	0.02500	0.02509

678 320

Data File: \\p1tpa02\chem\gc3.1\2201-E.b\c-B2143.d
 Date : 20-MAR-2001 15:29
 Client ID:
 Sample Info: MEUD,2201-E.b,4-INDB.sub,1,3
 Column phase: RTX-1701

Instrument: gc3.i
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2144.d
 Report Date: 21-Mar-2001 10:02

STL-Pittsburgh

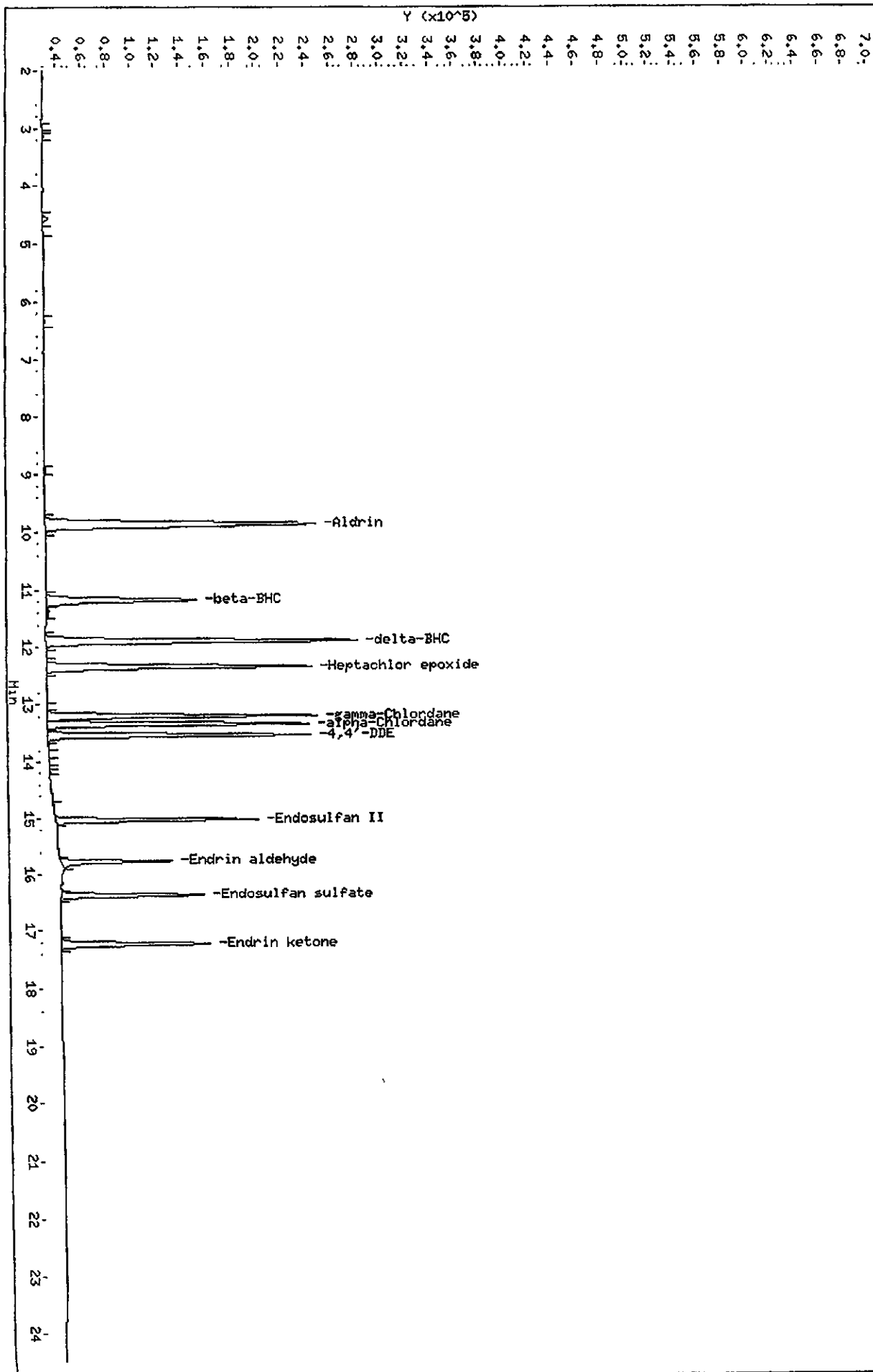
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2144.d
 Lab Smp Id: MHIGHB
 Inj Date : 20-MAR-2001 15:59
 Operator : 010139
 Smp Info : MHIGHB,2201-E.b,,4-INDB.sub,,1,4
 Misc Info : 190-124-10
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 10:02 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 15:59 Cal File: C-B2144.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	..	*****	*****	*****	*****	*****
11 Aldrin	9.858	9.858	0.000	216820	0.05000	0.04407
7 beta-BHC	11.175	11.175	0.000	120481	0.05000	0.04325
8 delta-BHC	11.883	11.891	-0.008	249839	0.05000	0.04551
12 Heptachlor epoxide	12.341	12.341	0.000	211358	0.05000	0.04488
13 gamma-Chlordane	13.200	13.200	0.000	216804	0.05000	0.04566
14 alpha-Chlordane	13.341	13.341	0.000	209168	0.05000	0.04576
16 4,4'-DDE	13.541	13.541	0.000	210517	0.05000	0.04692
22 Endosulfan II	15.033	15.033	0.000	161807	0.05000	0.04859
24 Endrin aldehyde	15.758	15.758	0.000	89498	0.05000	0.04999
26 Endosulfan sulfate	16.375	16.375	0.000	113541	0.05000	0.05107
27 Endrin ketone	17.233	17.233	0.000	119158	0.05000	0.04937

Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\C-B2144.d
Date: 20-MAR-2001 15:59
Client ID:
Sample Info: HHICHB,2201-E.b,4-INDB,sub,4,4
Column phase: RTX-1701

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc3.1\2201-E.b\C-B2144.d/C-B2144.R01



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2145.d
 Report Date: 21-Mar-2001 10:02

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2145.d
 Lab Smp Id: HIGHB
 Inj Date : 20-MAR-2001 16:28
 Operator : 010139 Inst ID: gc3.i
 Smp Info : HIGHB,2201-E.b,,4-INDB.sub,,1,5
 Misc Info : 190-124-11
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 10:02 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

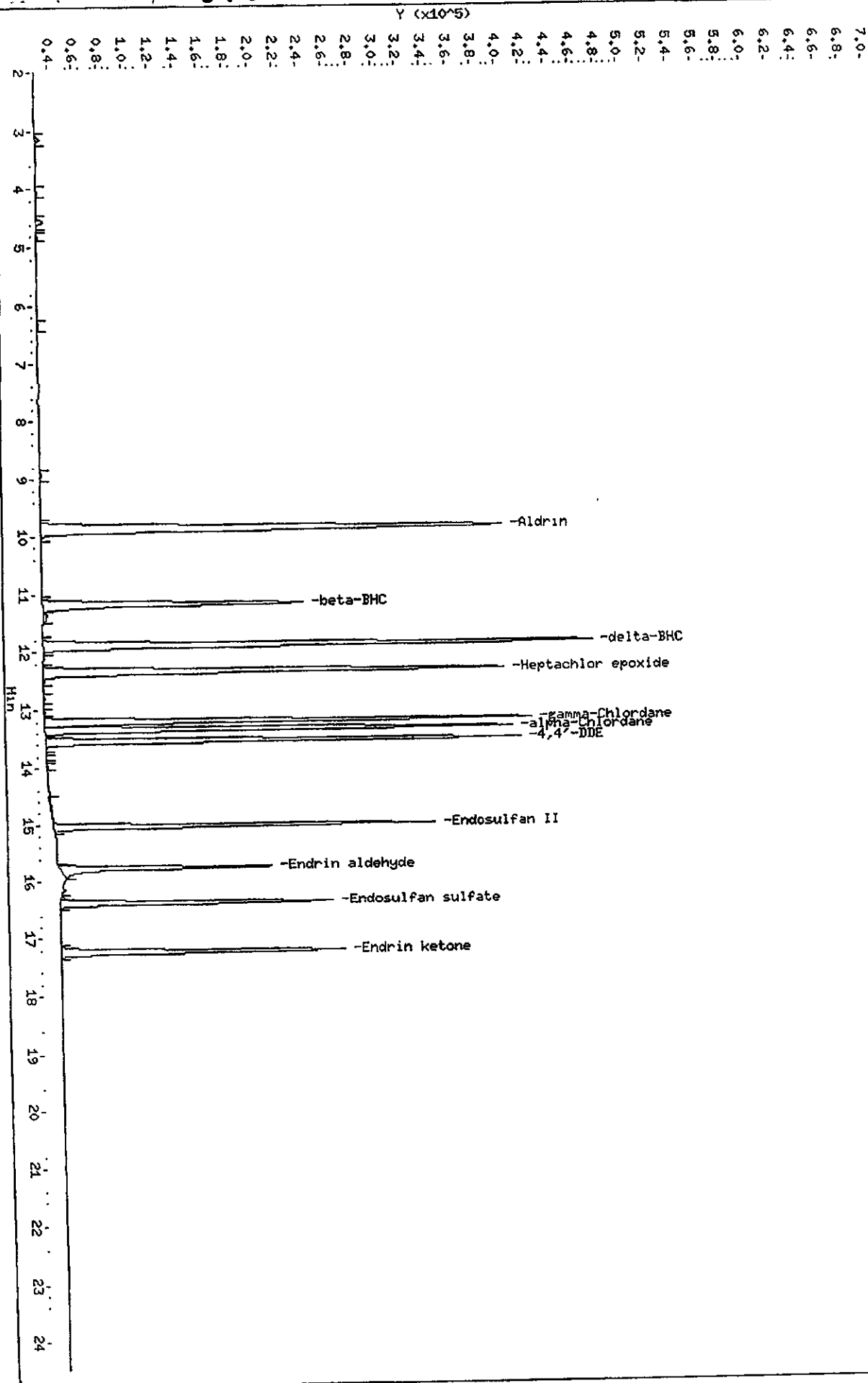
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	9.858	9.858	0.000	369459	0.10000	0.07904
7 beta-BHC	11.175	11.175	0.000	207288	0.10000	0.07843
8 delta-BHC	11.883	11.891	-0.008	441023	0.10000	0.08363
12 Heptachlor epoxide	12.341	12.341	0.000	369019	0.10000	0.08190
13 gamma-Chlordane	13.200	13.200	0.000	390238	0.10000	0.08522
14 alpha-Chlordane	13.341	13.341	0.000	373720	0.10000	0.08486
16 4,4'-DDE	13.541	13.541	0.000	380725	0.10000	0.08751
22 Endosulfan II	15.033	15.033	0.000	303784	0.10000	0.09286
24 Endrin aldehyde	15.758	15.758	0.000	168587	0.10000	0.09528
26 Endosulfan sulfate	16.375	16.375	0.000	216397	0.10000	0.09786
27 Endrin ketone	17.233	17.233	0.000	226381	0.10000	0.09498

678 324

Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\C-B2145.d
 Date: 20-Mar-2001 16:28
 Client ID:
 Sample Info: HIOHB,2201-E.b,4-INDB,sub,1,5
 Column phase: RTX-1701

Instrument: gc3.1
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc3.1\2201-E.b\C-B2145.d\C-B2145.RAW



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2146.d
 Report Date: 21-Mar-2001 10:11

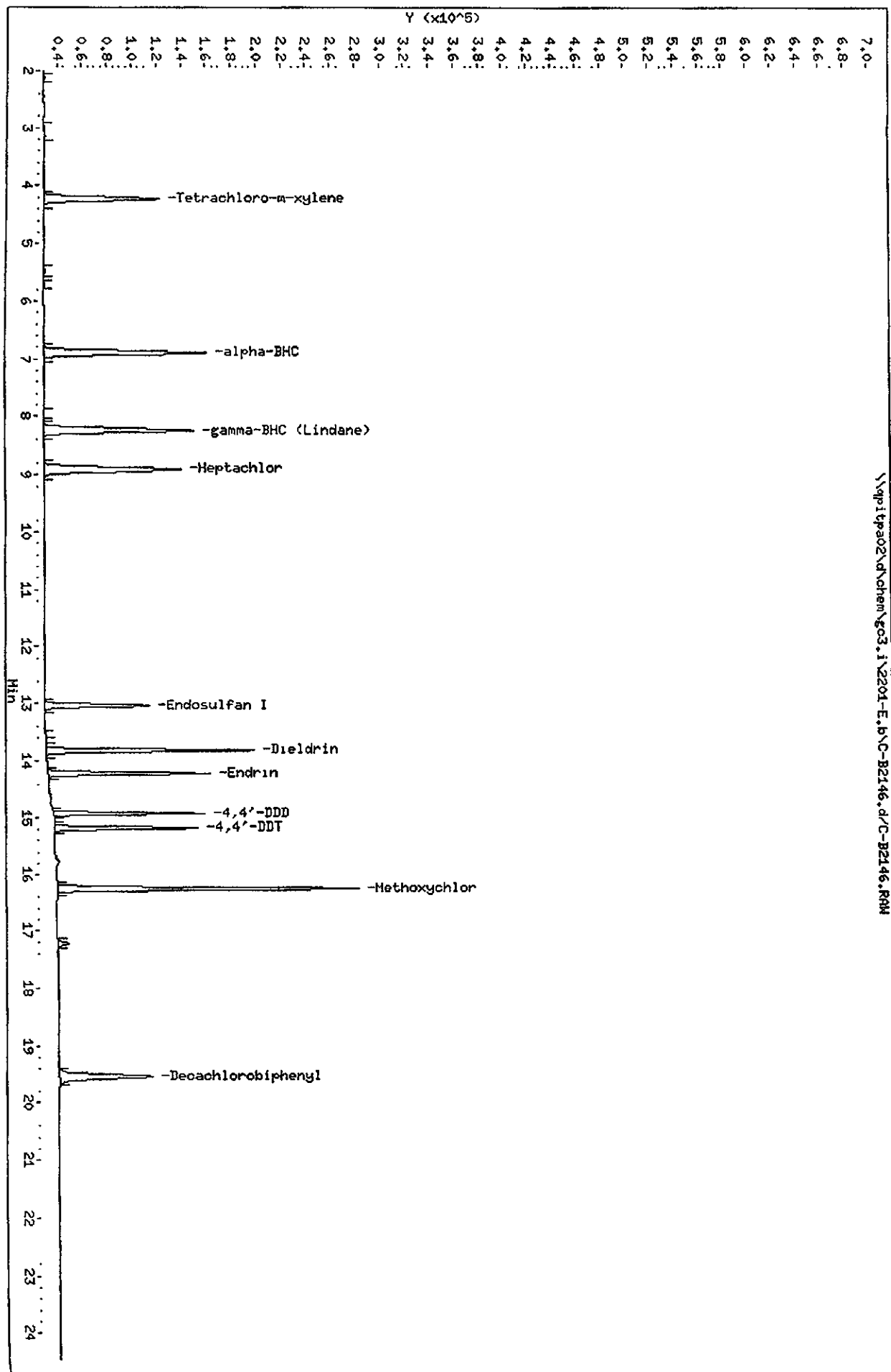
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2146.d
 Lab Smp Id: 2ND A
 Inj Date : 20-MAR-2001 16:58
 Operator : 010139 Inst ID: gc3.i
 Smp Info : 2ND A,2201-E.b,,INDA.sub,,2,3
 Misc Info : 190-125-11
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 10:07 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDA.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
\$ 1 Tetrachloro-m-xylene	4.233	4.225	0.008	93458	0.02500	0.02007
5 alpha-BHC	6.891	6.891	0.000	131031	0.02500	0.02115
6 gamma-BHC (Lindane)	8.241	8.241	0.000	120058	0.02500	0.02163
10 Heptachlor	8.908	8.908	0.000	110564	0.02500	0.02174
15 Endosulfan I	13.041	13.041	0.000	84370	0.02500	0.02124
17 Dieldrin	13.816	13.816	0.000	166073	0.02500	0.04012
20 Endrin	14.216	14.216	0.000	129902	0.02500	0.03610
21 4,4'-DDD	14.925	14.925	0.000	121588	0.02500	0.04174
23 4,4'-DDT	15.183	15.183	0.000	114514	0.02500	0.04068
25 Methoxychlor	16.250	16.250	0.000	240573	0.05000	0.1912
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	75231	0.02500	0.04020

Data File: \\npitpa02\chem\gc3.1\2201-E.b\C-B2146.d
 Date: 20-MAR-2001 16:58
 Client ID:
 Sample Info: 2ND A, 2201-E.b, INDA, sub, 2,3
 Column phase: RTX-1701

Instrument: gc3.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2147.d
 Report Date: 21-Mar-2001 10:11

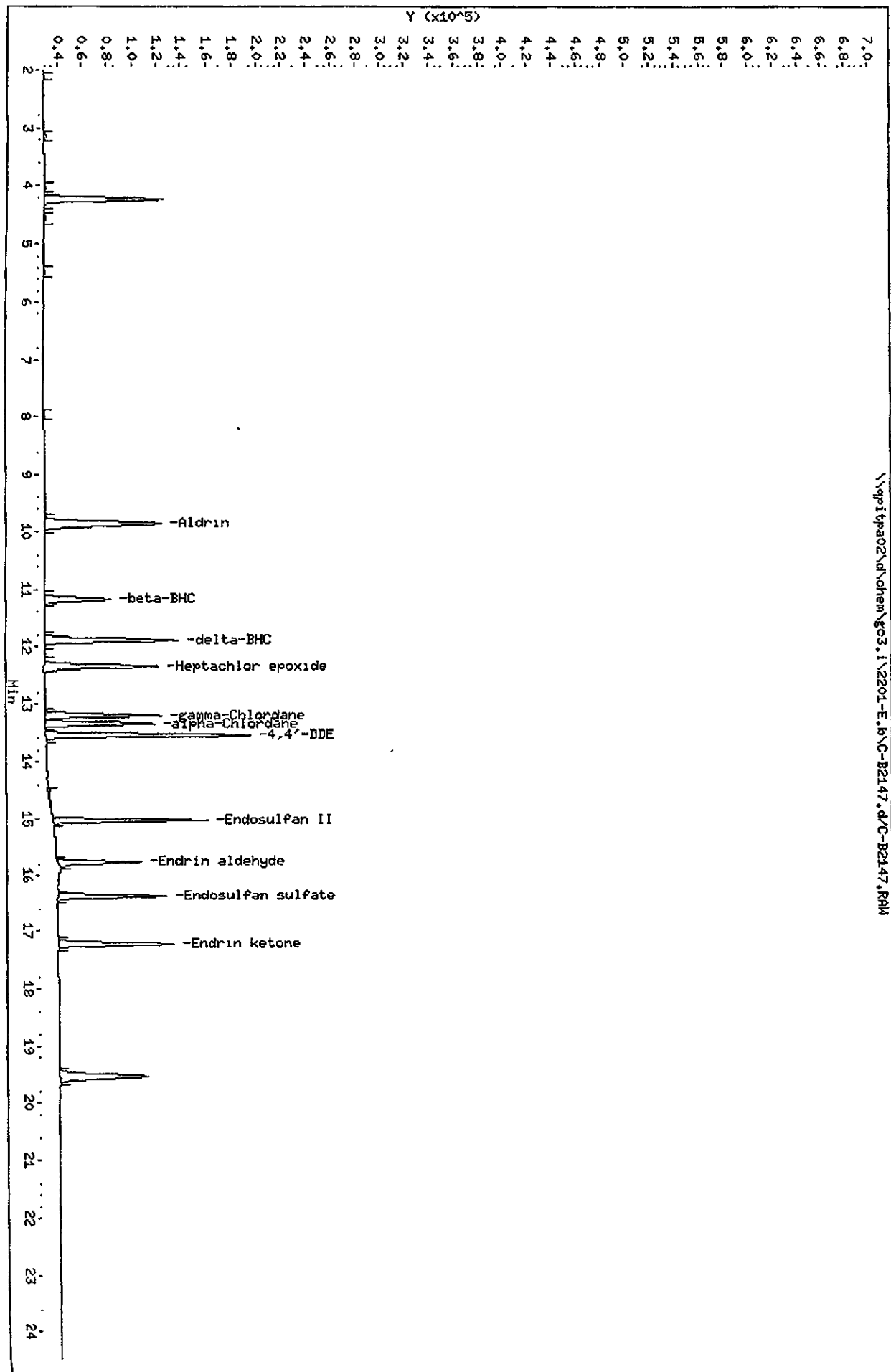
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2147.d
 Lab Smp Id: 2ND B
 Inj Date : 20-MAR-2001 17:28
 Operator : 010139 Inst ID: gc3.i
 Smp Info : 2ND B,2201-E.b,,INDB.sub,,2,3
 Misc Info : 190-125-14
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 10:07 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	==	=====	=====	=====	=====	=====
11 Aldrin	9.858	9.858	0.000	93285	0.02500	0.01996
7 beta-BHC	11.175	11.175	0.000	52318	0.02500	0.01980
8 delta-BHC	11.883	11.891	-0.008	107023	0.02500	0.02029
12 Heptachlor epoxide	12.341	12.341	0.000	91787	0.02500	0.02037
13 gamma-Chlordane	13.200	13.200	0.000	93606	0.02500	0.02044
14 alpha-Chlordane	13.341	13.341	0.000	88044	0.02500	0.01999
16 4,4'-DDE	13.541	13.541	0.000	163963	0.02500	0.03769
22 Endosulfan II	15.033	15.033	0.000	123896	0.02500	0.03787
24 Endrin aldehyde	15.758	15.758	0.000	66861	0.02500	0.03779
26 Endosulfan sulfate	16.375	16.375	0.000	87167	0.02500	0.03942
27 Endrin ketone	17.233	17.233	0.000	92714	0.02500	0.03890

Data File: \\p1tpa02\chem\gc3.i\2201-E.b\C-B2147.d
Date: 20-MAR-2001 17:28
Client ID:
Sample Info: 2ND B, 2201-E.b, INDB.sub, 2,3
Column Phase: RTX-1701

Instrument: gc3.i
Operator: 010139
Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2148.d
Report Date: 21-Mar-2001 10:11

678 329

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2148.d
Lab Smp Id: EVALB
Inj Date : 20-MAR-2001 17:57 Inst ID: gc3.i
Operator : 010139
Smp Info : EVALB,2201-E.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:07 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000 Compound Sublist: EVALBR.sub
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	4.233	4.225	0.008	100352	0 02155	0 02155(R)
16 4,4'-DDE	13.541	13 541	0.000	556	<0 0	0 0001278(M)
20 Endrin	14.216	14.216	0 000	93823	0.02607	0 02607
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.183	15 183	0 000	74524	0 02648	0.02648
24 Endrin aldehyde	15 766	15 758	0.008	836	<0.0	0 0004725(M)
27 Endrin ketone	17.233	17.233	0.000	1783	<0.0	0.0007480(M)
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	40337	0 02156	0.02156(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

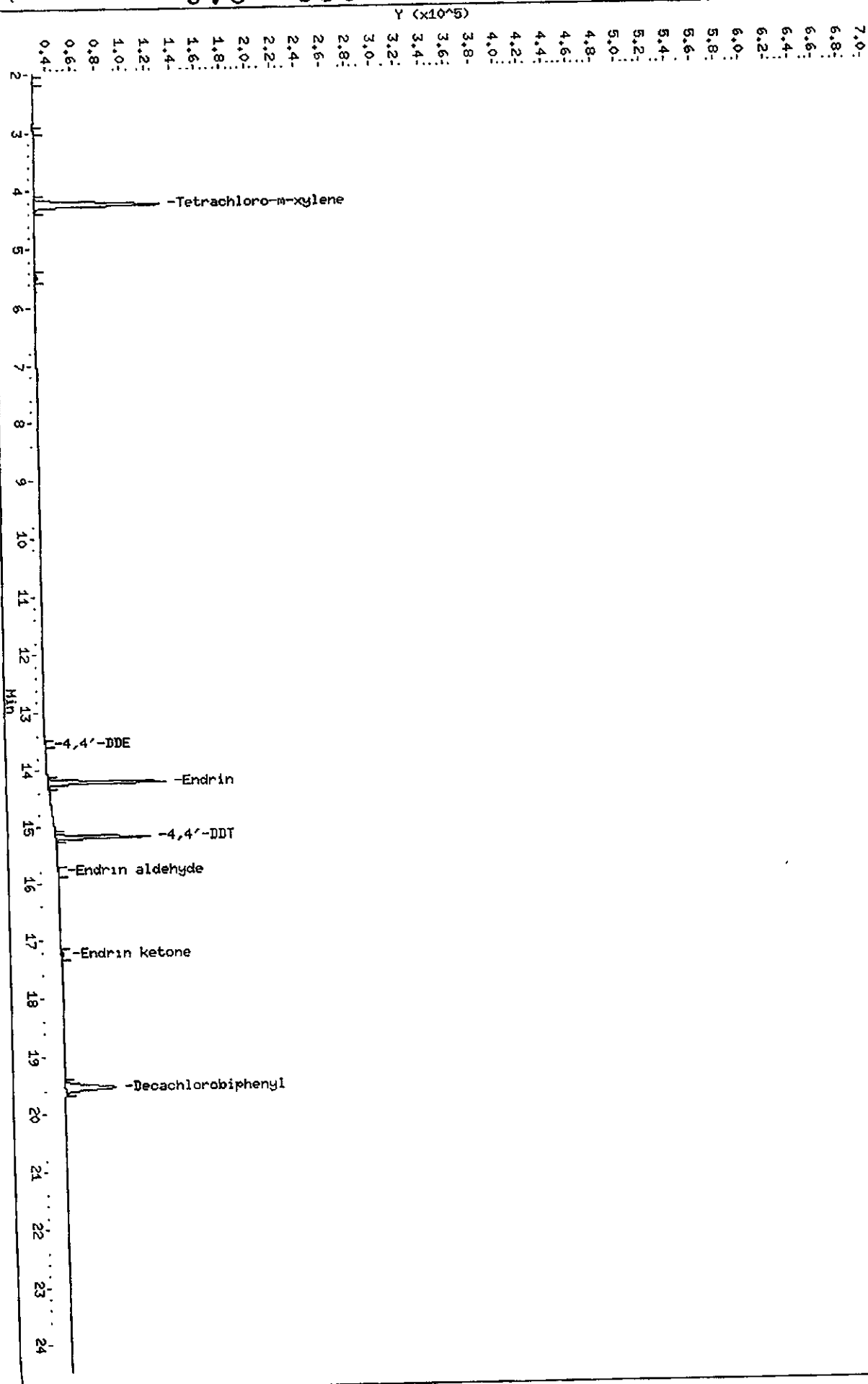
DDT 0.77%
ENDRIN 2.77%

678 330

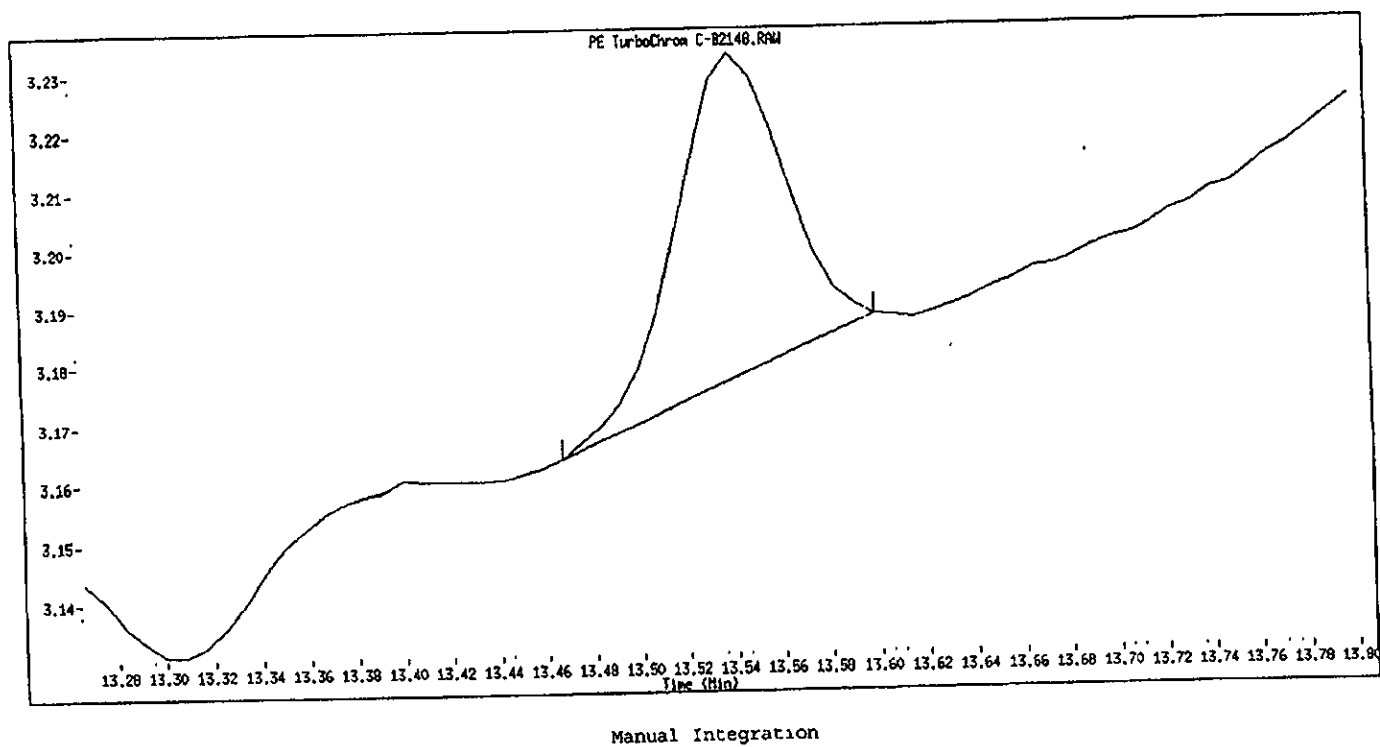
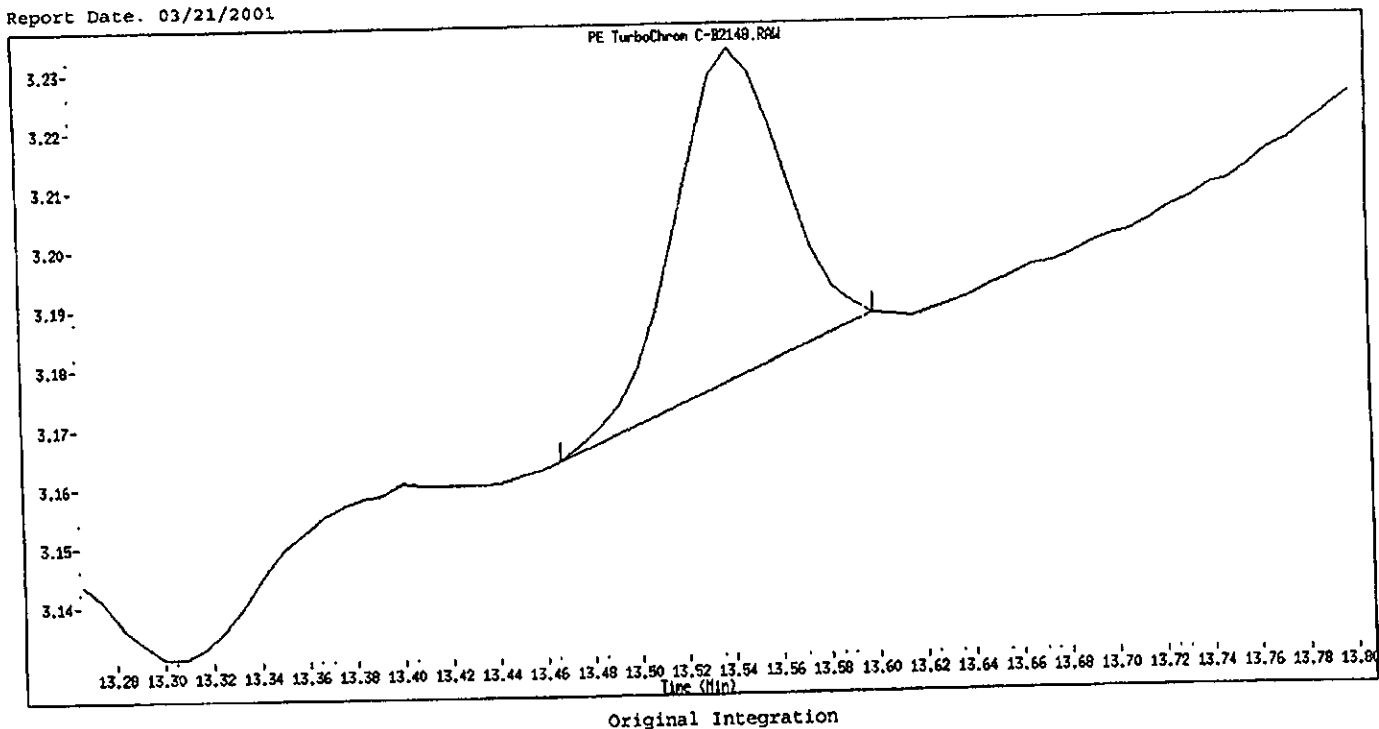
Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\C-B2148.d
 Date: 20-HAR-2001 17:57
 Client ID:
 Sample Info: EVALB,2201-E.b,EVALBR,sub,3,1
 Column phase: RTX-1701

Instrument: gc3.1
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc3.1\2201-E.b\C-B2148.d/C-B2148.R01



Data File Name C-B2148 d
Inj Date and Time: 20-MAR-2001 17.57
Instrument ID. gc3 i
Client ID
Compound Name: 4,4'-DDE
CAS #: 72-55-9
Report Date: 03/21/2001



Manually Integrated By: EppingerD
Manual Integration Reason: Peak Not Found

678 332

Data File Name: C-B2148.d

Inj Date and Time: 20-MAR-2001 17:57

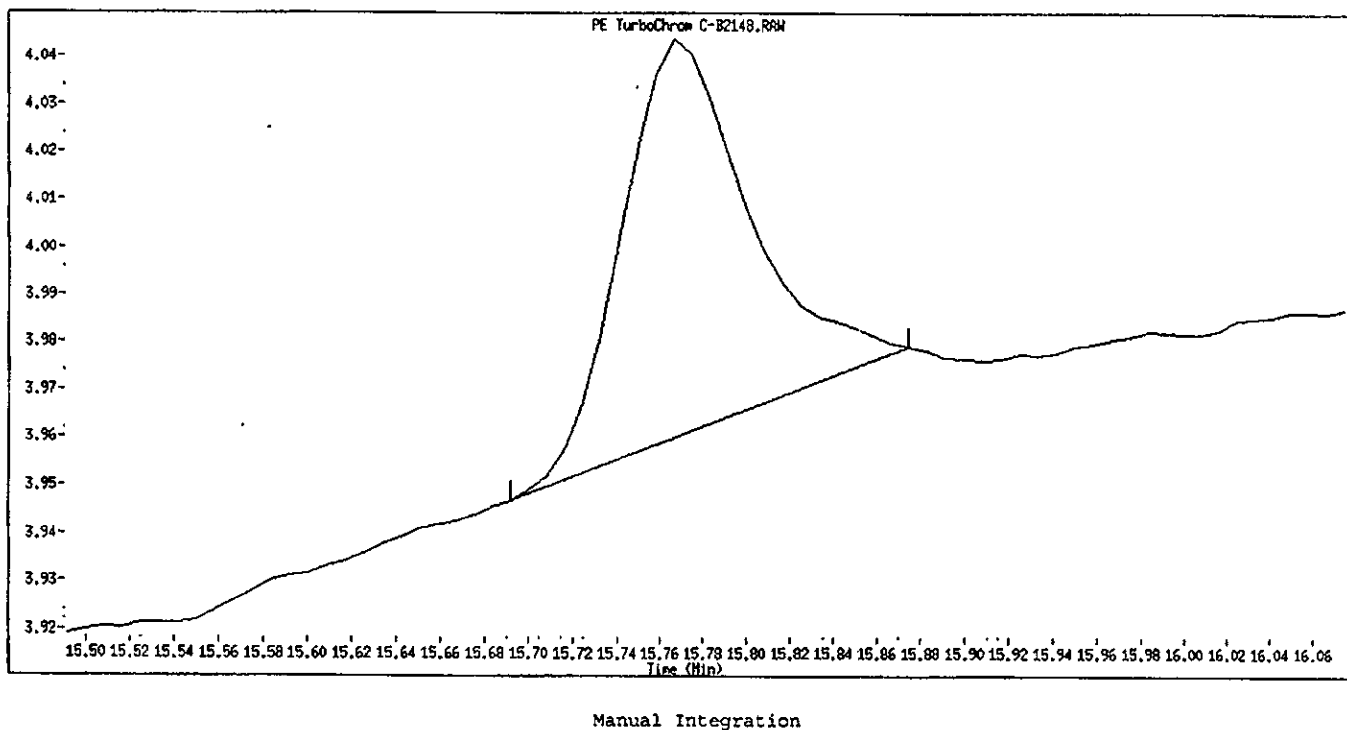
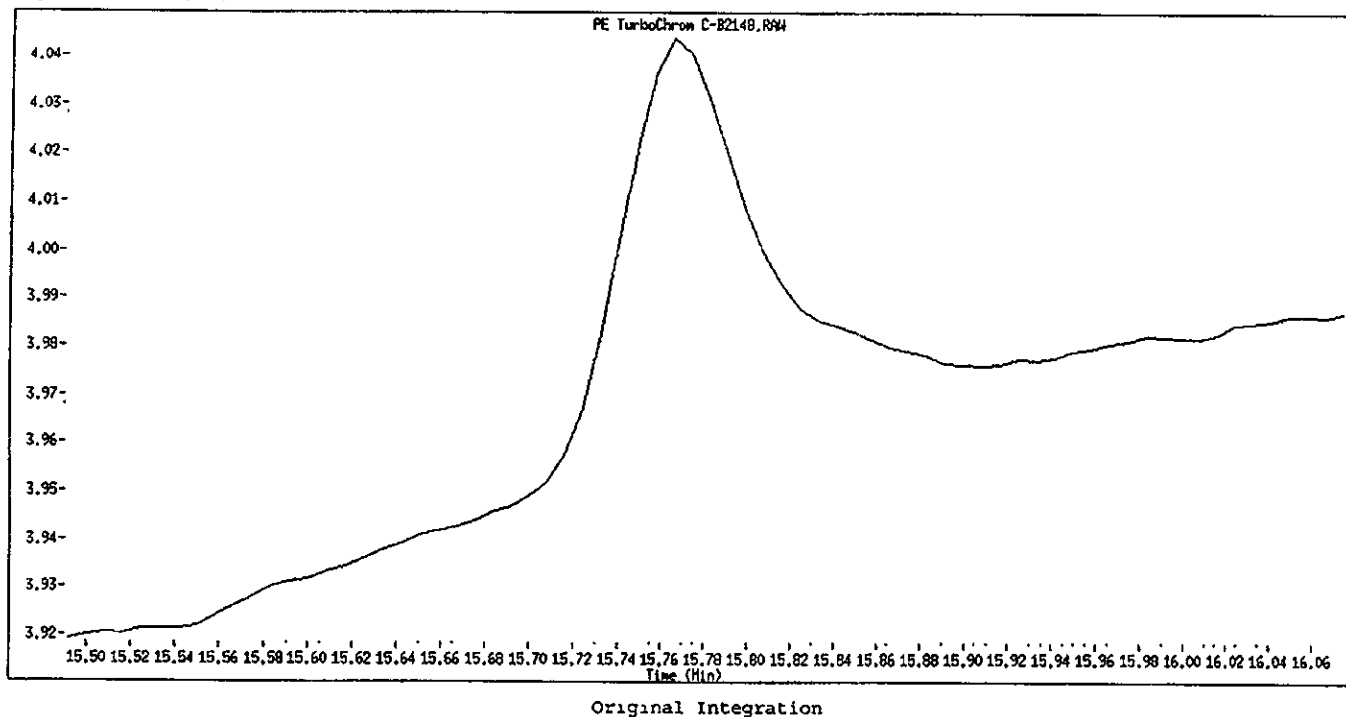
Instrument ID: gc3 i

Client ID

Compound Name Endrin aldehyde

CAS #: 7421-93-4

Report Date: 03/21/2001

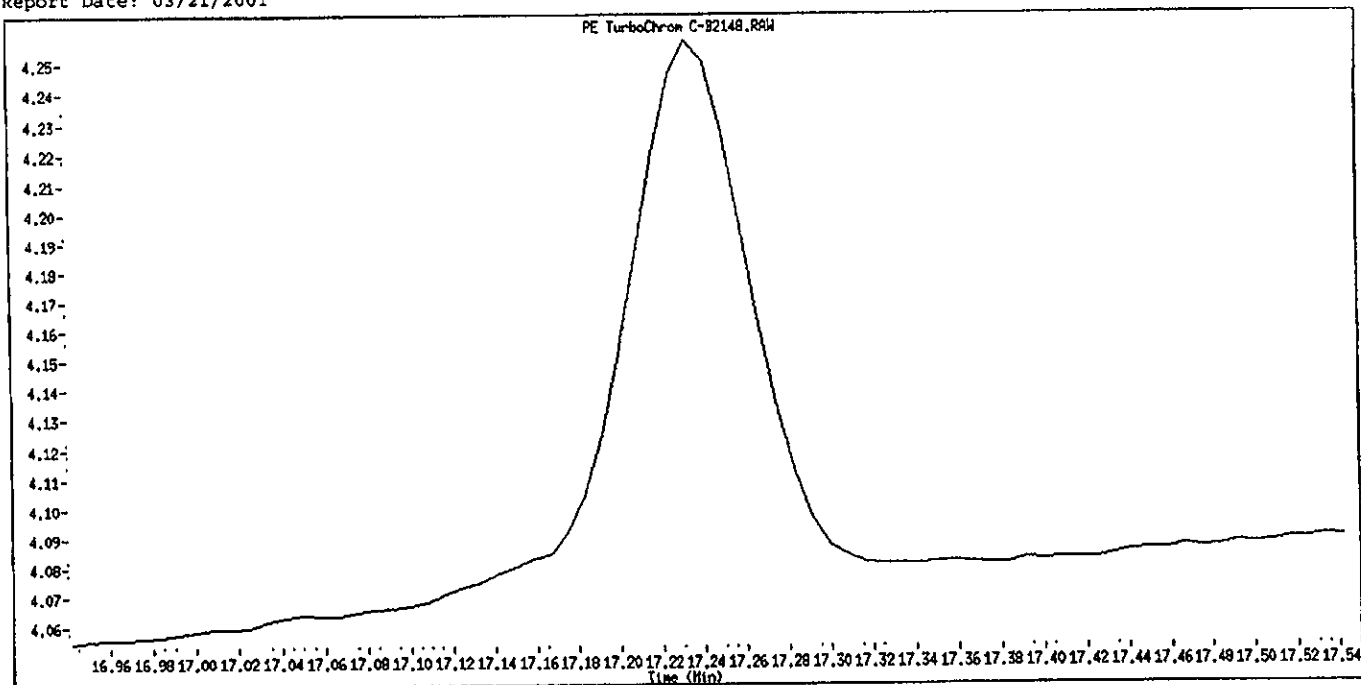


Manually Integrated By: EppingerD

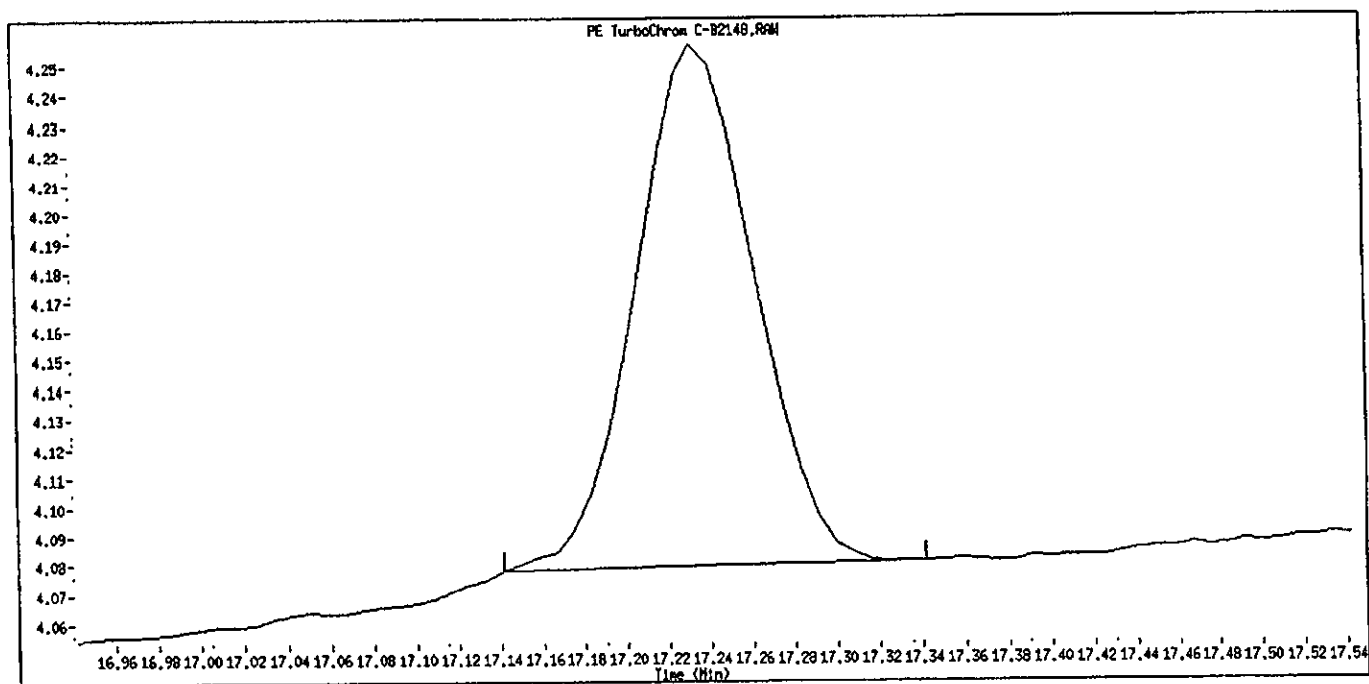
Manual Integration Reason Peak Not Found

Data File Name C-B2148.d
Inj Date and Time. 20-MAR-2001 17:57
Instrument ID: gc3.1
Client ID
Compound Name: Endrin ketone
CAS # 53494-70-5
Report Date: 03/21/2001

678 333



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason: Peak Not Found

678 334

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2163.d
 Report Date: 21-Mar-2001 10:12

STL-Pittsburgh

Data file: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2163.d
 Lab Smp Id: MEDA
 Inj Date: 21-MAR-2001 01:21
 Operator: 010139 Inst ID: gc3.i
 Smp Info: MEDA,2201-E.b,,3-INDA.sub,,2,3
 Misc Info: 190-124-3
 Comment:
 Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date: 21-Mar-2001 10:07 eppingerd Quant Type: ESTD
 Cal Date: 20-MAR-2001 16:28 Cal File: C-B2145.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	4.225	4.225	0.000	122760	0.02500	0.02636
5 alpha-BHC	6.891	6.891	0.000	161971	0.02500	0.02615
6 gamma-BHC (Lindane)	8.241	8.241	0.000	143844	0.02500	0.02592
10 Heptachlor	8.908	8.908	0.000	133910	0.02500	0.02633
15 Endosulfan I	13.041	13.041	0.000	101843	0.02500	0.02564
17 Dieldrin	13.816	13.816	0.000	105103	0.02500	0.02539
20 Endrin	14.216	14.216	0.000	94731	0.02500	0.02632
21 4,4'-DDD	14.925	14.925	0.000	74563	0.02500	0.02559
23 4,4'-DDT	15.183	15.183	0.000	72270	0.02500	0.02568
25 Methoxychlor	16.250	16.250	0.000	65934	0.05000	0.05241
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	47866	0.02500	0.02558

678

335

Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\C-B2163.d

Date: 21-MAR-2001 01:21

Client ID:

Sample Info: MEDA, 2201-E.b, 3-INDA, sub, 2,3

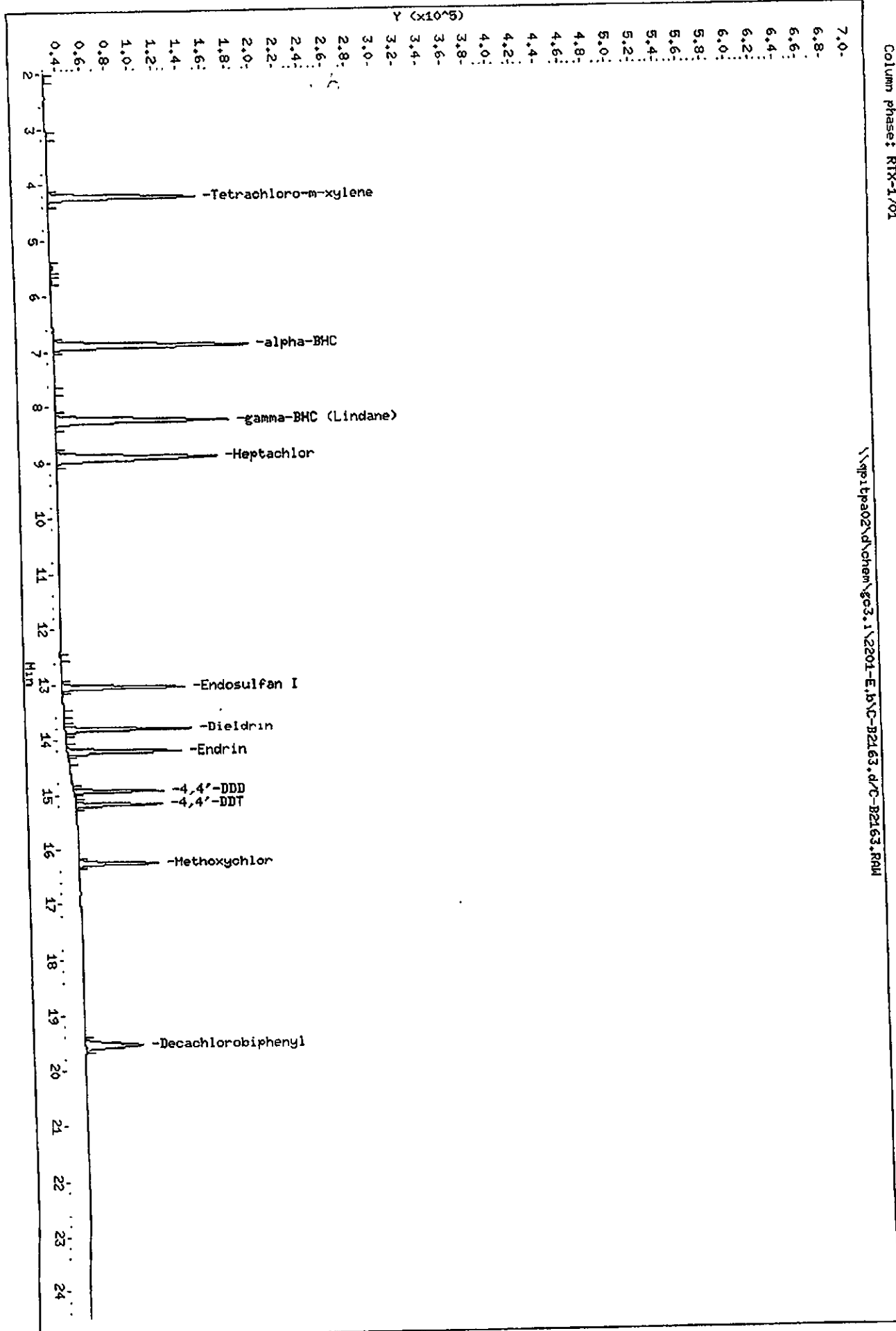
Column phase: RTX-1701

Instrument: gc3.1

Operator: 010139

Column diameter: 0.53

\\pp1tpa02\chem\gc3.1\2201-E.b\C-B2163.d\C-B2163.RAW



678 336

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2164.d
Report Date: 21-Mar-2001 10:12

STL-Pittsburgh

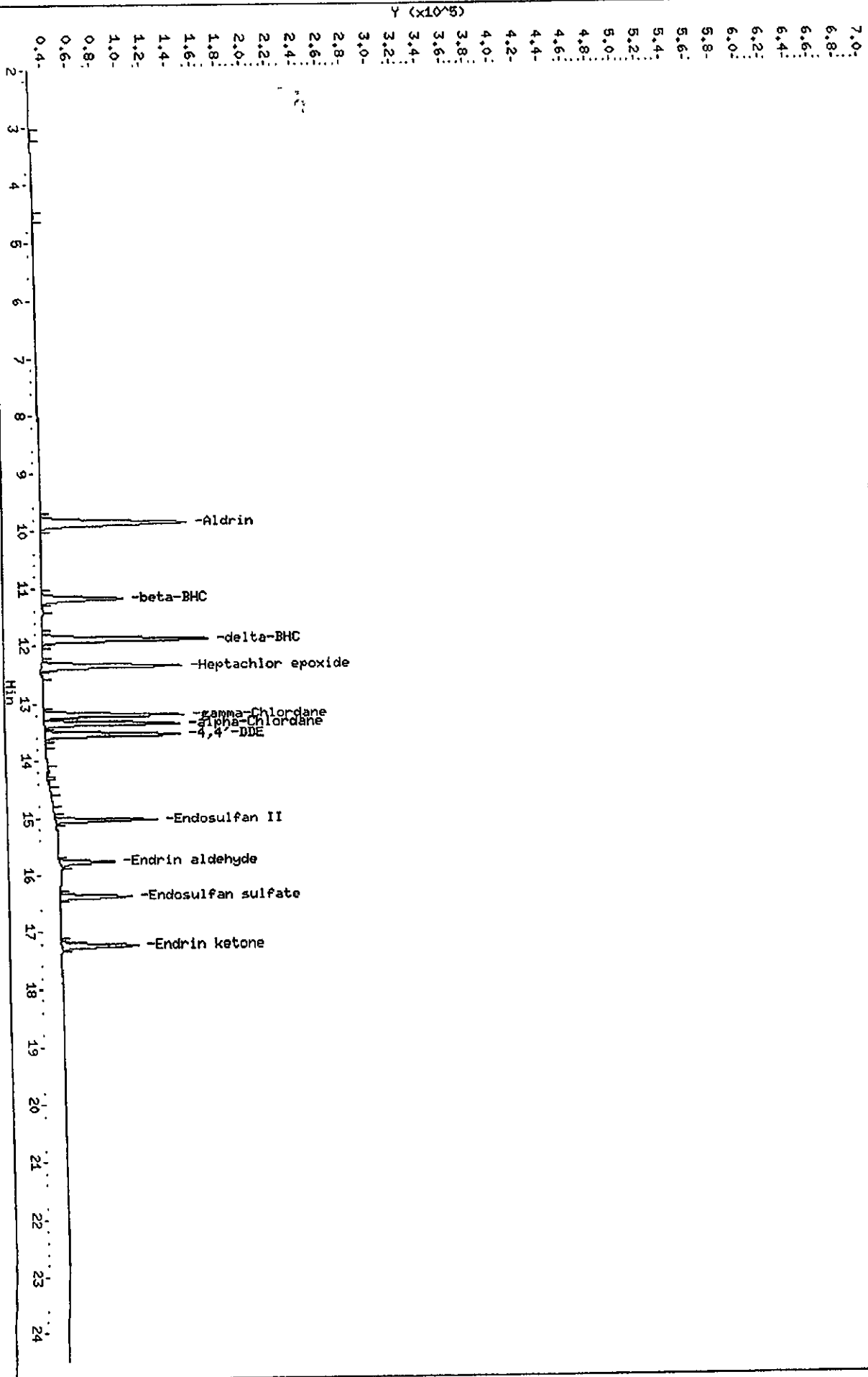
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2164.d
Lab Smp Id: MEDB
Inj Date : 21-MAR-2001 01:51
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDB,2201-E.b,,4-INDB.sub,,2,3
Misc Info : 190-124-9
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:07 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	9.858	9.858	0.000	117095	0.02500	0.02505
7 beta-BHC	11.175	11.175	0.000	65082	0.02500	0.02462
8 delta-BHC	11.883	11.891	-0.008	133125	0.02500	0.02524
12 Heptachlor epoxide	12.341	12.341	0.000	112615	0.02500	0.02500
13 gamma-Chlordane	13.200	13.200	0.000	112504	0.02500	0.02457
14 alpha-Chlordane	13.341	13.341	0.000	108673	0.02500	0.02468
16 4,4'-DDE	13.541	13.541	0.000	108414	0.02500	0.02492
22 Endosulfan II	15.033	15.033	0.000	81797	0.02500	0.02500
24 Endrin aldehyde	15.758	15.758	0.000	43500	0.02500	0.02458
26 Endosulfan sulfate	16.375	16.375	0.000	56508	0.02500	0.02555
27 Endrin ketone	17.233	17.233	0.000	60916	0.02500	0.02556

Data File: \\qpi1pa02\chem\gc3.1\2201-E.b\C-B2164.d
Date: 21-Mar-2001 01:51
Client ID:
Sample Info: MEDB, 2201-E.b, 4-INDB.sub, 2,3
Column phase: RTX-1701

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\qpi1pa02\chem\gc3.1\2201-E.b\C-B2164.d/C-B2164.RAW



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2167.d
Report Date: 21-Mar-2001 13:02

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2167.d
Lab Smp Id: EVALB
Inj Date : 21-MAR-2001 11:04
Operator : 010139 Inst ID: gc3.i
Smp Info : EVALB,2201-E.b,,EVALBR.sub,,3,1
Misc Info : 190-126-7
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 13:01 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	4 233	4.225	0.008	106953	0.02296	0.02296 (R)
16 4,4'-DDE	13.550	13.541	0.009	738	0.00017	0.0001696 (M)
20 Endrin	14 216	14.216	0.000	94707	0.02632	0.02632
21 4,4'-DDD	Compound Not Detected					
23 4,4'-DDT	15.183	15.183	0.000	72003	0.02558	0.02558
24 Endrin aldehyde	15 775	15.758	0.017	196	<0.0	0.0001108 (M)
27 Endrin ketone	17.241	17.233	0.008	418	<0.0	0.0001754 (M)
\$ 30 Decachlorobiphenyl	19 550	19.533	0.017	39031	0.02086	0.02086 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

DDT 1.07%
ENDRIN 0.67%

Data File: \\qpitpa02\chem\ec3.1\2201-E.b\C-B2167.d

Date: 21-MAR-2001 11:04

Client ID:

Sample Info: EVALB,2201-E.b,EVALBR.sub,,3,1

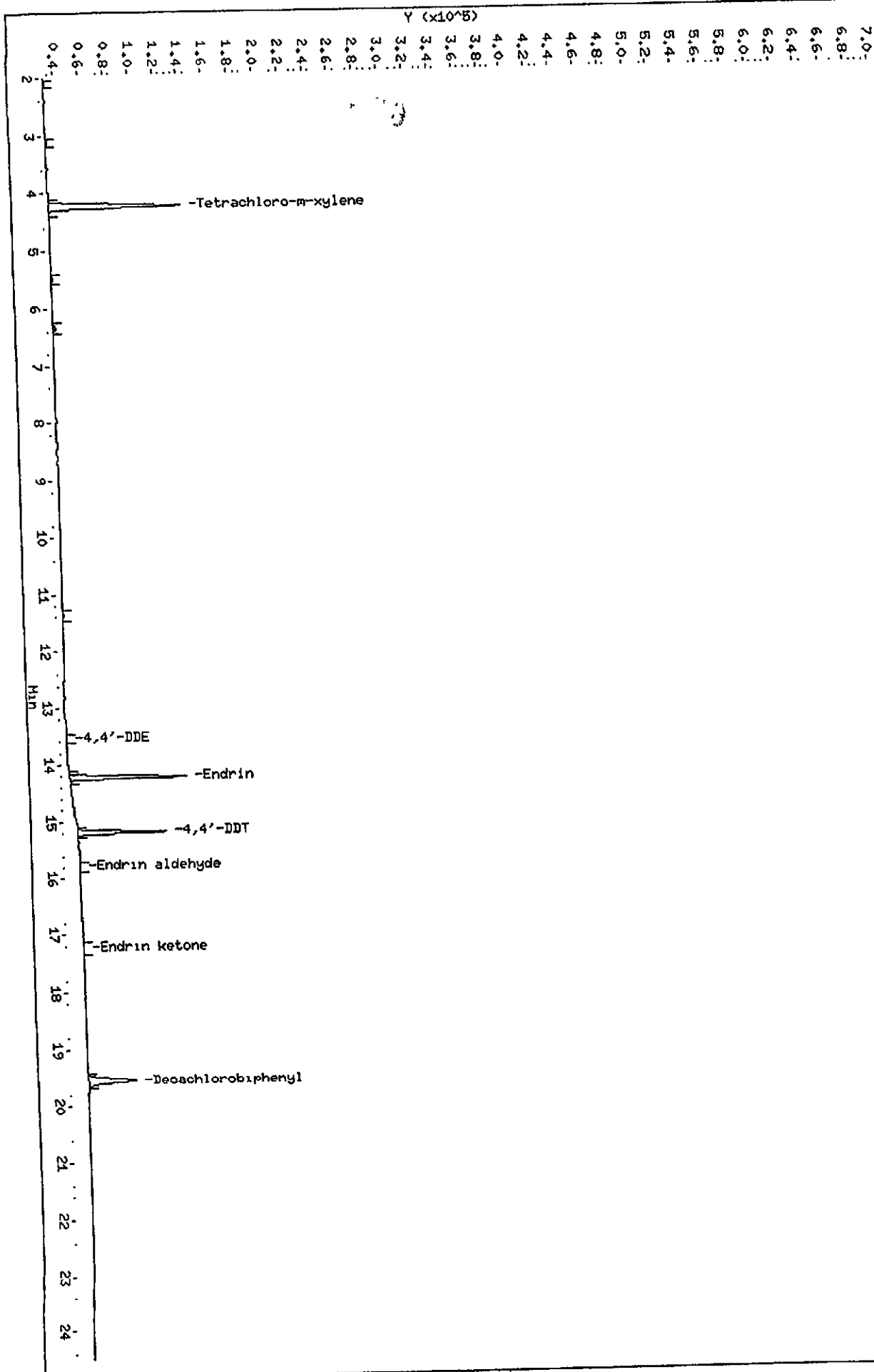
Column phase: RTX-1701

Instrument: ec3.1

Operator: 010139

Column diameter: 0.53

\\qpitpa02\chem\ec3.1\2201-E.b\C-B2167.d\C-B2167.R88



678 340

Data File Name: C-B2167.d

Inj. Date and Time: 21-MAR-2001 11:04

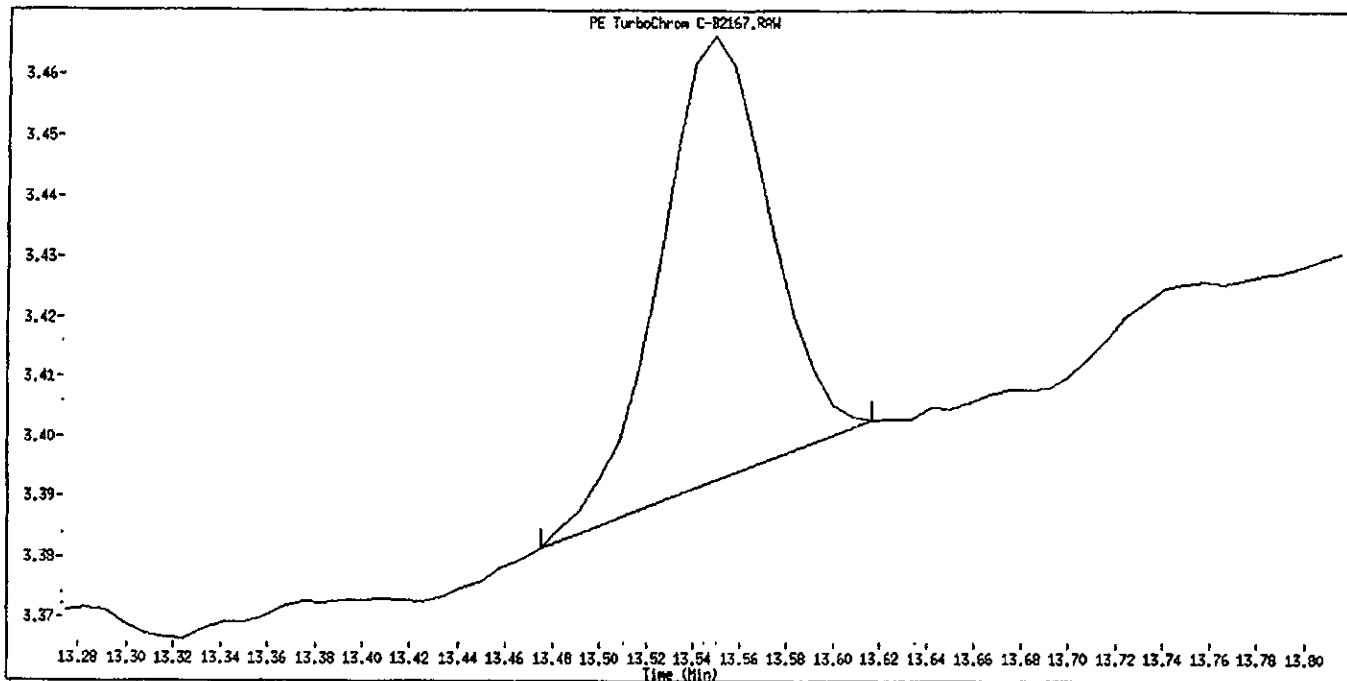
Instrument ID: gc3.1

Client ID:

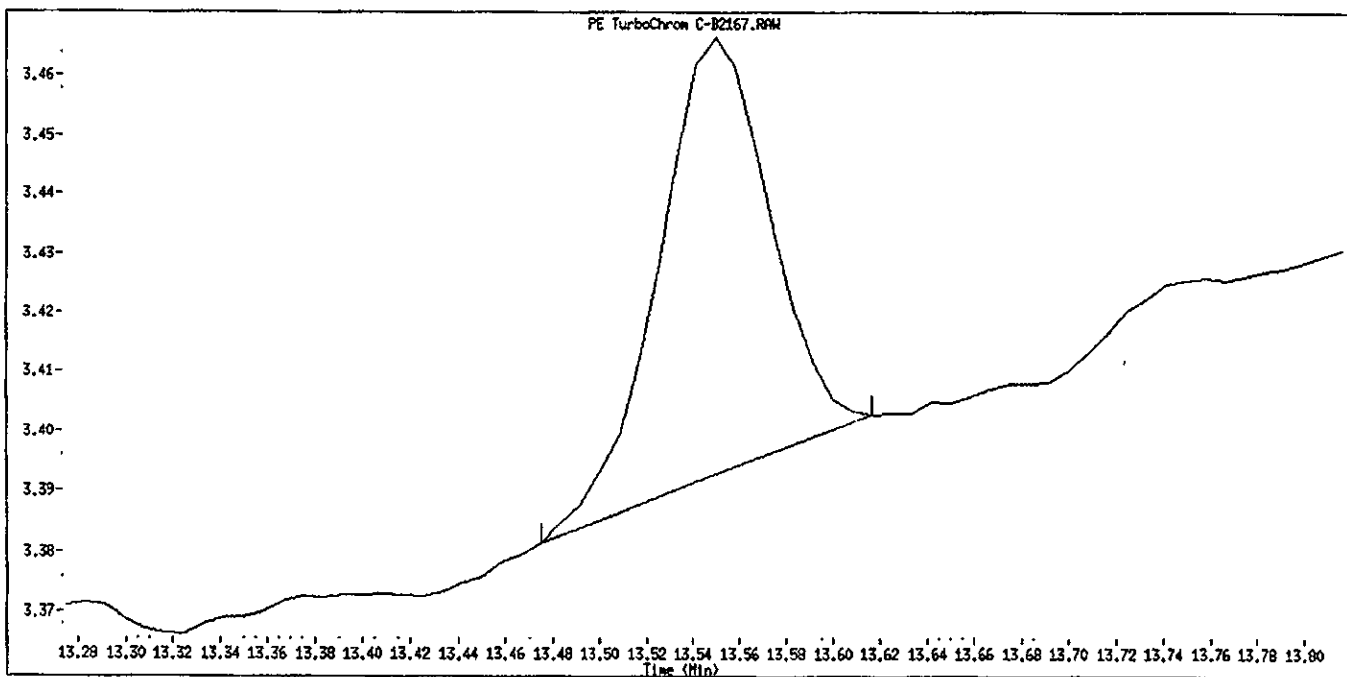
Compound Name 4,4'-DDE

CAS #: 72-55-9

Report Date: 03/21/2001



Original Integration

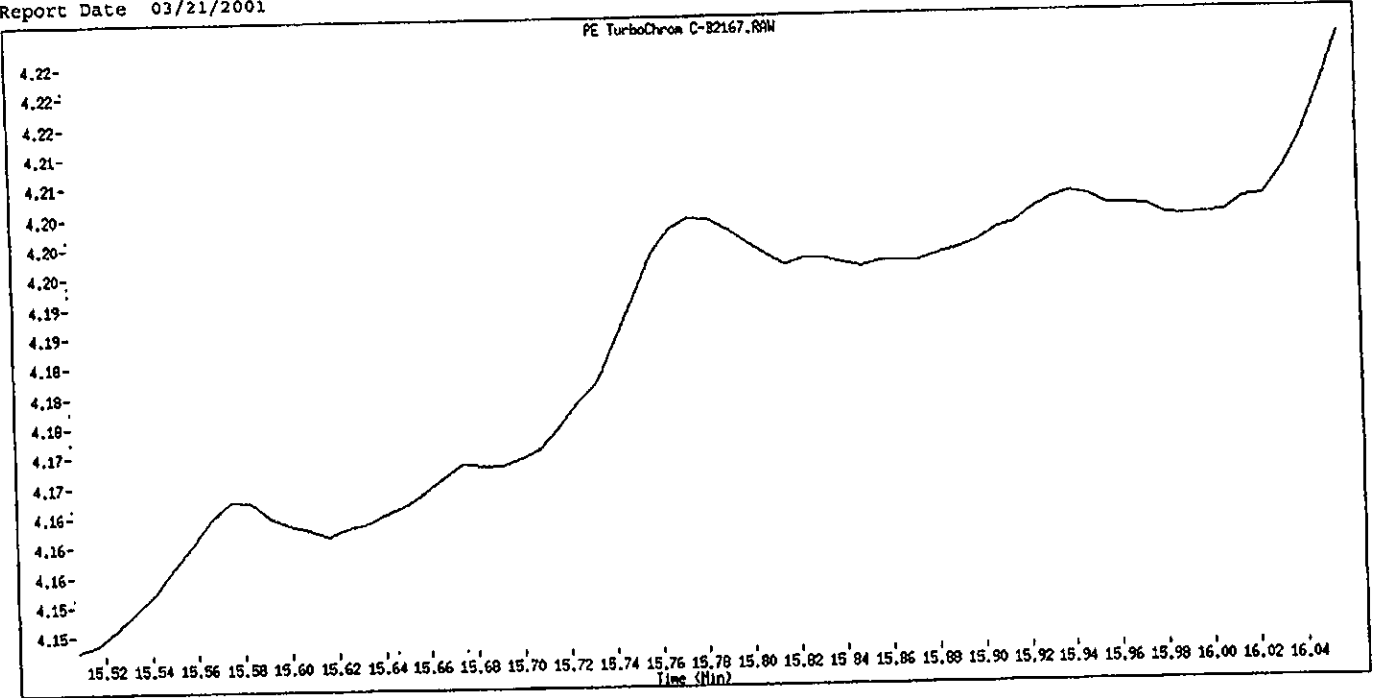


Manual Integration

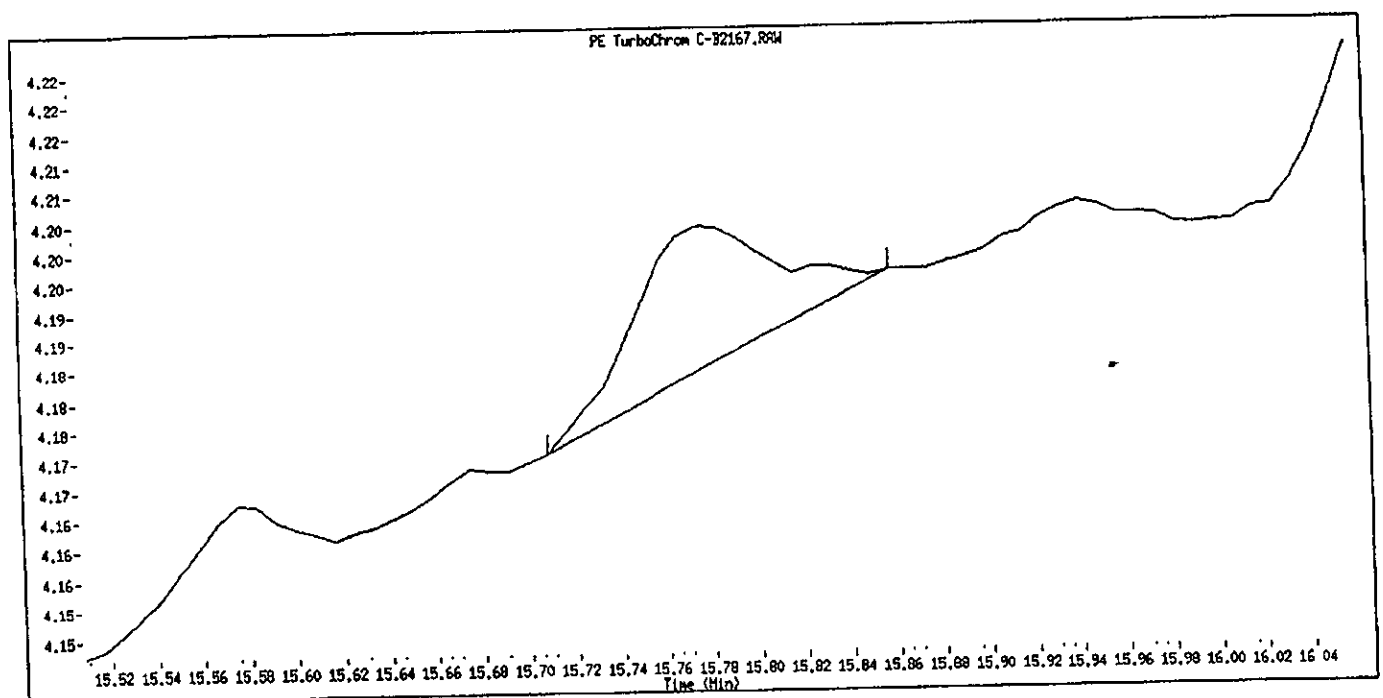
Manually Integrated By: EppingerD

Manual Integration Reason: Peak Not Found

Data File Name: C-B2167 d
 Inj Date and Time 21-MAR-2001 11.04
 Instrument ID: gc3.1
 Client ID:
 Compound Name: Endrin aldehyde
 CAS # 7421-93-4
 Report Date 03/21/2001



Original Integration



Manual Integration

Manually Integrated By: EppingerD
 Manual Integration Reason: Peak Not Found

Data File Name C-B2167.d

678 342

Inj. Date and Time 21-MAR-2001 11:04

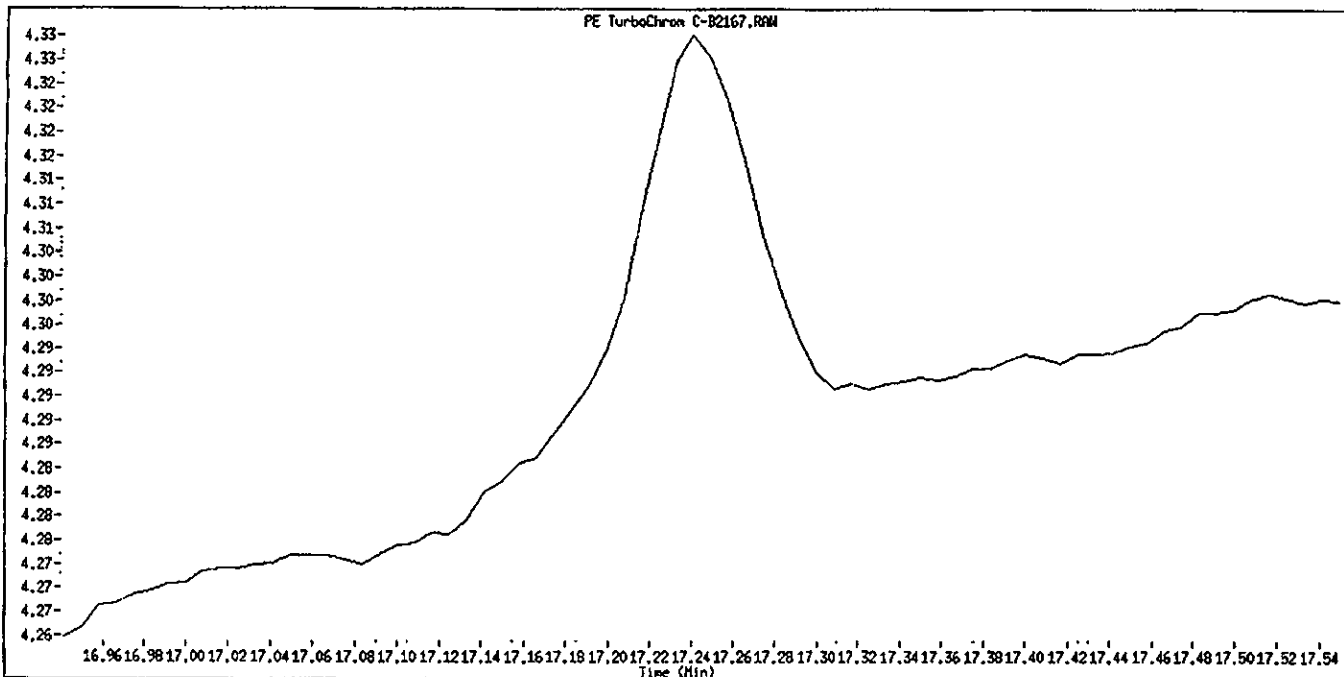
Instrument ID: gc3 i

Client ID:

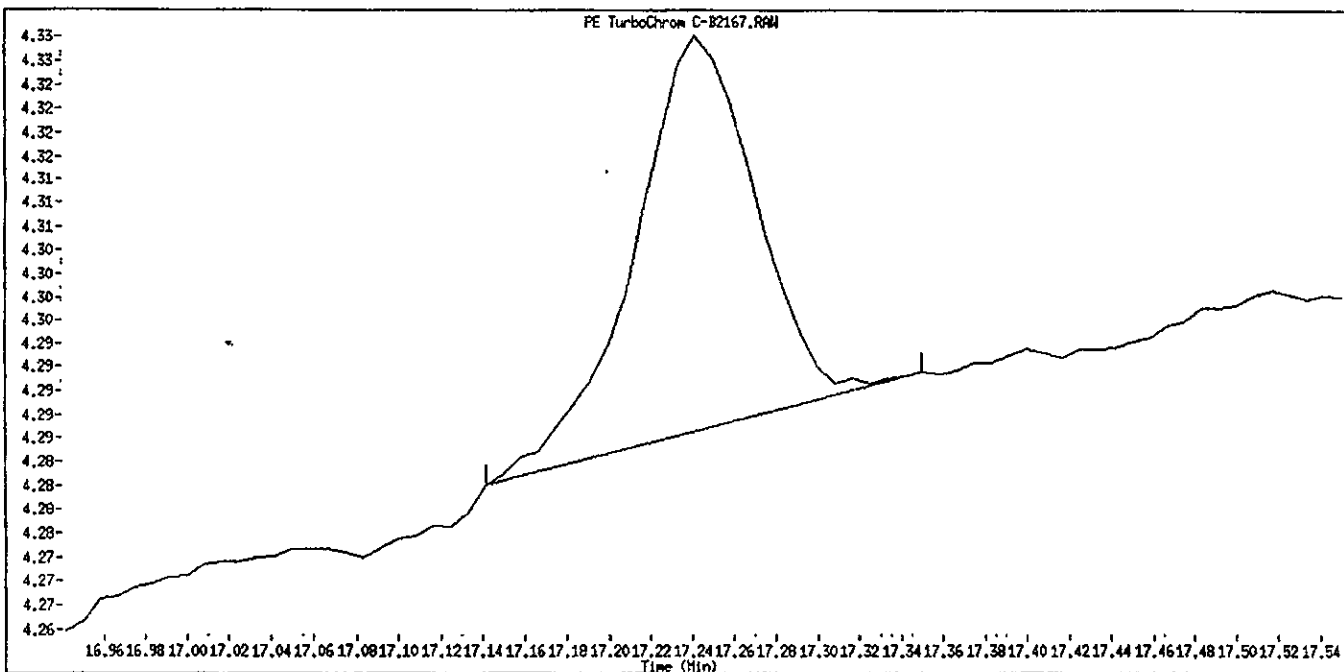
Compound Name Endrin ketone

CAS #: 53494-70-5

Report Date 03/21/2001



Original Integration



Manual Integration

Manually Integrated By: EppingerD

Manual Integration Reason: Peak Not Found

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2168.d
 Report Date: 21-Mar-2001 13:03

STL-Pittsburgh

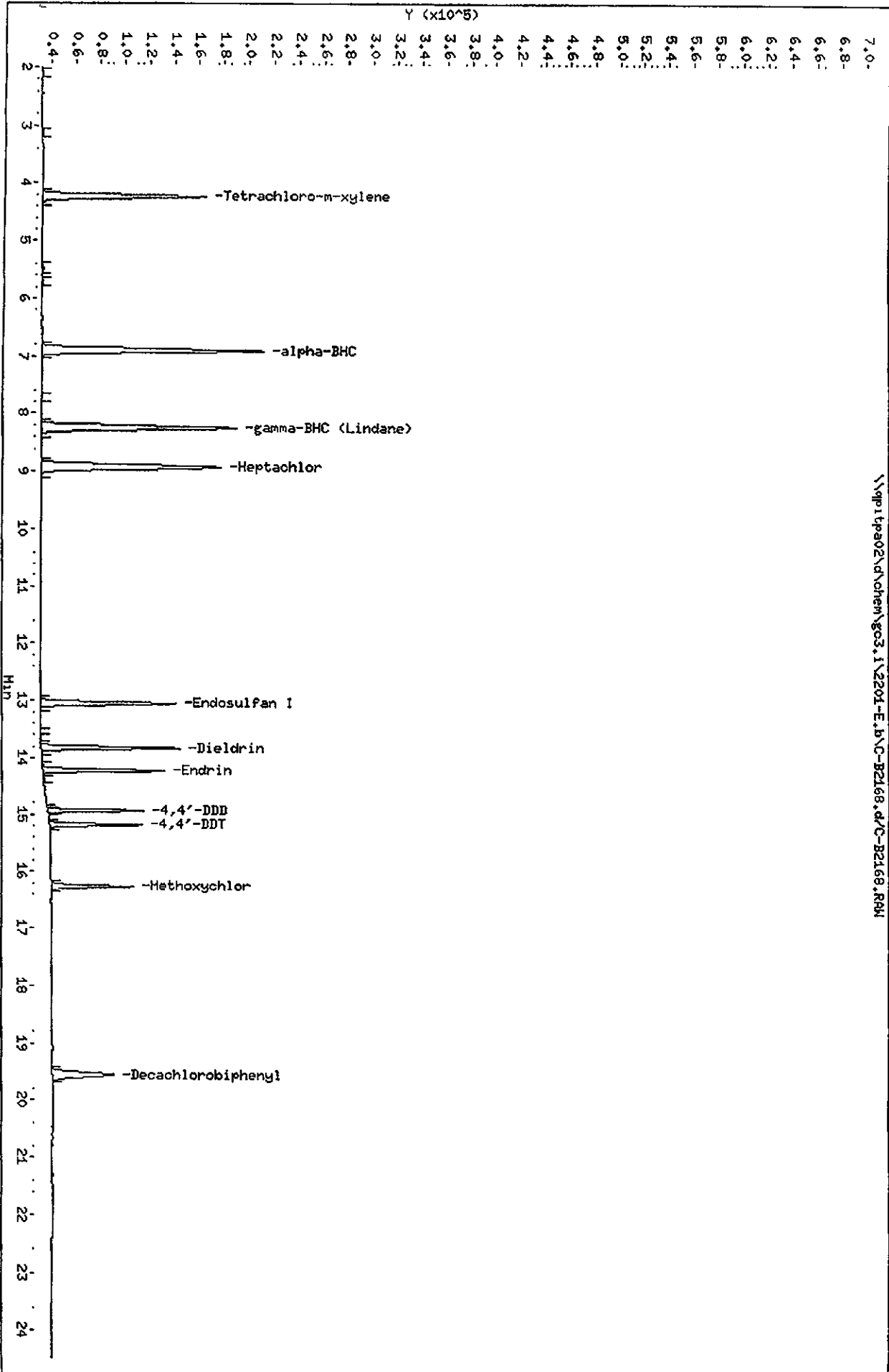
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2168.d
 Lab Smp Id: MEDA
 Inj Date : 21-MAR-2001 11:33
 Operator : 010139
 Smp Info : MEDA,2201-E.b,,3-INDA.sub,,2,3
 Misc Info : 190-124-3
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 13:01 eppingerd
 Cal Date : 20-MAR-2001 16:28
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc3.i
 Quant Type: ESTD
 Cal File: C-B2145.d
 Continuing Calibration Sample
 Compound Sublist: 3-INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
-----	---	-----	-----	-----	-----	-----
\$ 1 Tetrachloro-m-xylene	4.233	4.225	0.008	132477	0.02500	0.02844
5 alpha-BHC	6.900	6.891	0.009	178818	0.02500	0.02887
6 gamma-BHC (Lindane)	8.250	8.241	0.009	156972	0.02500	0.02828
10 Heptachlor	8.916	8.908	0.008	144465	0.02500	0.02841
15 Endosulfan I	13.050	13.041	0.009	109257	0.02500	0.02750
17 Dieldrin	13.825	13.816	0.009	112185	0.02500	0.02710
20 Endrin	14.216	14.216	0.000	98372	0.02500	0.02733
21 4,4'-DDD	14.933	14.925	0.008	77436	0.02500	0.02658
23 4,4'-DDT	15.183	15.183	0.000	74317	0.02500	0.02640
25 Methoxychlor	16.258	16.250	0.008	66389	0.05000	0.05278
\$ 30 Decachlorobiphenyl	19.550	19.533	0.017	49226	0.02500	0.02631

Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\C-B2168.d
Date: 21-MAR-2001 11:33
Client ID:
Sample Info: MEDR,2201-E.b,,3-INDA.sub,,2,3
Column phase: RTX-1701

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2169.d
 Report Date: 21-Mar-2001 13:03

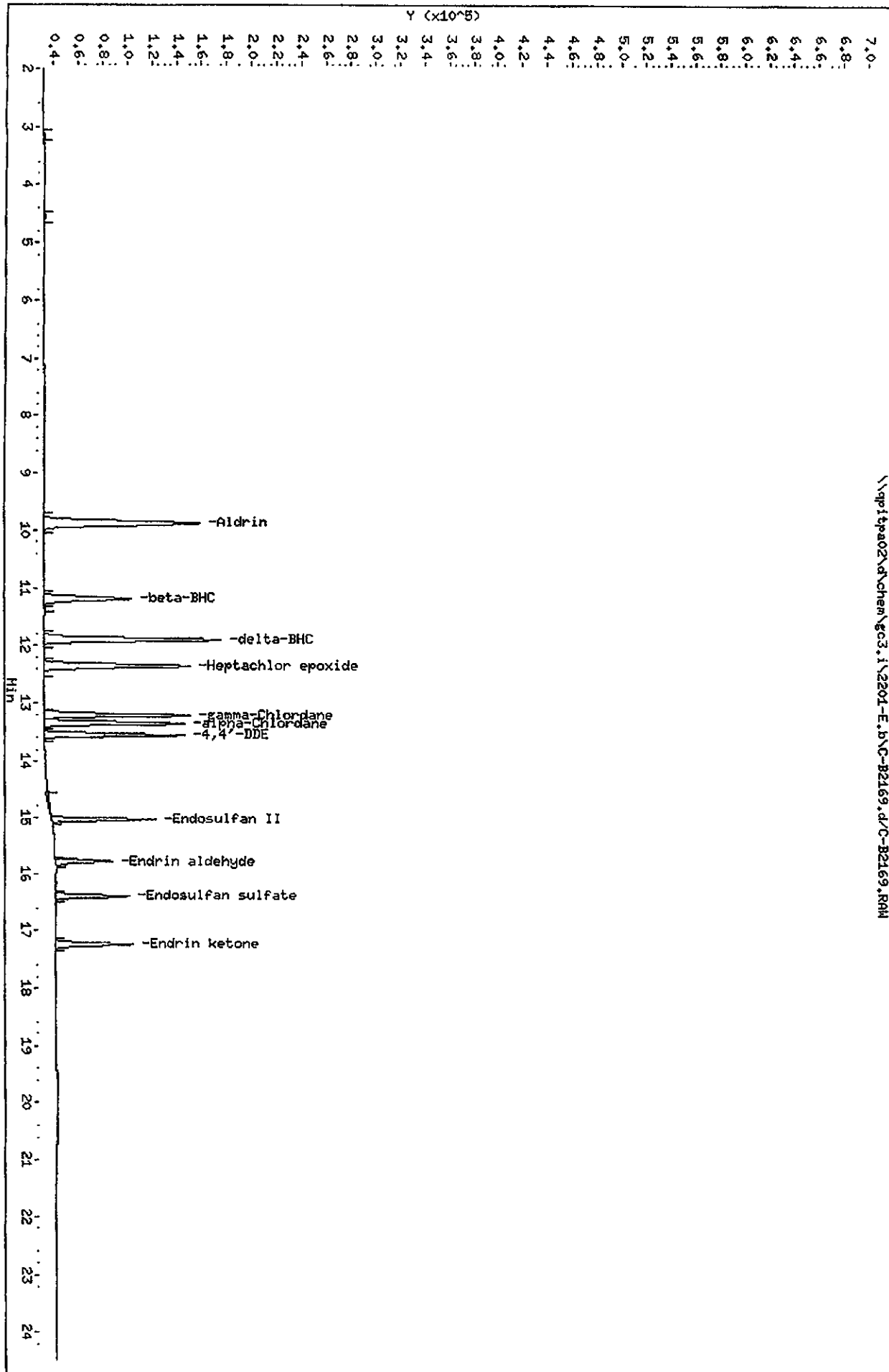
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2169.d
 Lab Smp Id: MEDB
 Inj Date : 21-MAR-2001 12:03
 Operator : 010139
 Smp Info : MEDB,2201-E.b,,4-INDB.sub,,2,3
 Misc Info : 190-124-9
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 13:01 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
-----	--	-----	-----	-----	-----	-----
11 Aldrin	9.866	9.858	0.008	125045	0.02500	0.02675
7 beta-BHC	11.183	11.175	0.008	70066	0.02500	0.02651
8 delta-BHC	11.891	11.891	0.000	142743	0.02500	0.02707
12 Heptachlor epoxide	12.350	12.341	0.009	118198	0.02500	0.02623
13 gamma-Chlordane	13.208	13.200	0.008	118435	0.02500	0.02586
14 alpha-Chlordane	13.350	13.341	0.009	113796	0.02500	0.02584
16 4,4'-DDE	13.550	13.541	0.009	113078	0.02500	0.02599
22 Endosulfan II	15.033	15.033	0.000	83733	0.02500	0.02560
24 Endrin aldehyde	15.766	15.758	0.008	45477	0.02500	0.02570
26 Endosulfan sulfate	16.383	16.375	0.008	59198	0.02500	0.02677
27 Endrin ketone	17.241	17.233	0.008	62280	0.02500	0.02613

Data File: \\qpi\tpa02\chem\gc3.1\2201-E.b\C-B2169.d
Date: 21-MAR-2001 12:03
Client ID:
Sample Info: HEDB,2201-E.b,4-INDB.sub,2,3
Column phase: RTX-1701

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2172.d
Report Date: 21-Mar-2001 15:35

678 347

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2172.d
Lab Smp Id: MEDA
Inj Date : 21-MAR-2001 13:32
Operator : 010139
Smp Info : MEDA,2201-E.b,,3-INDA.sub,,2,3
Misc Info : 190-124-3
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 15:34 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

		AMOUNTS				
Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	4.233	4.225	0.008	133241	0.02500	0.02861
5 alpha-BHC	6.900	6.891	0.009	177528	0.02500	0.02866
6 gamma-BHC (Lindane)	8.250	8.241	0.009	157062	0.02500	0.02830
10 Heptachlor	8.916	8.908	0.008	145676	0.02500	0.02865
15 Endosulfan I	13.041	13.041	0.000	110449	0.02500	0.02780
17 Dieldrin	13.825	13.816	0.009	113522	0.02500	0.02742
20 Endrin	14.216	14.216	0.000	100455	0.02500	0.02791
21 4,4'-DDD	14.933	14.925	0.008	78483	0.02500	0.02694
23 4,4'-DDT	15.183	15.183	0.000	75598	0.02500	0.02686
25 Methoxychlor	16.258	16.250	0.008	68009	0.05000	0.05406
\$ 30 Decachlorobiphenyl	19.550	19.533	0.017	49751	0.02500	0.02659

Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\c-B2172.d
Date: 21-MAR-2001 13:32
Client ID:

Sample Info: MEDA, 2201-E.b, 3-INDA, sub,, 2, 3

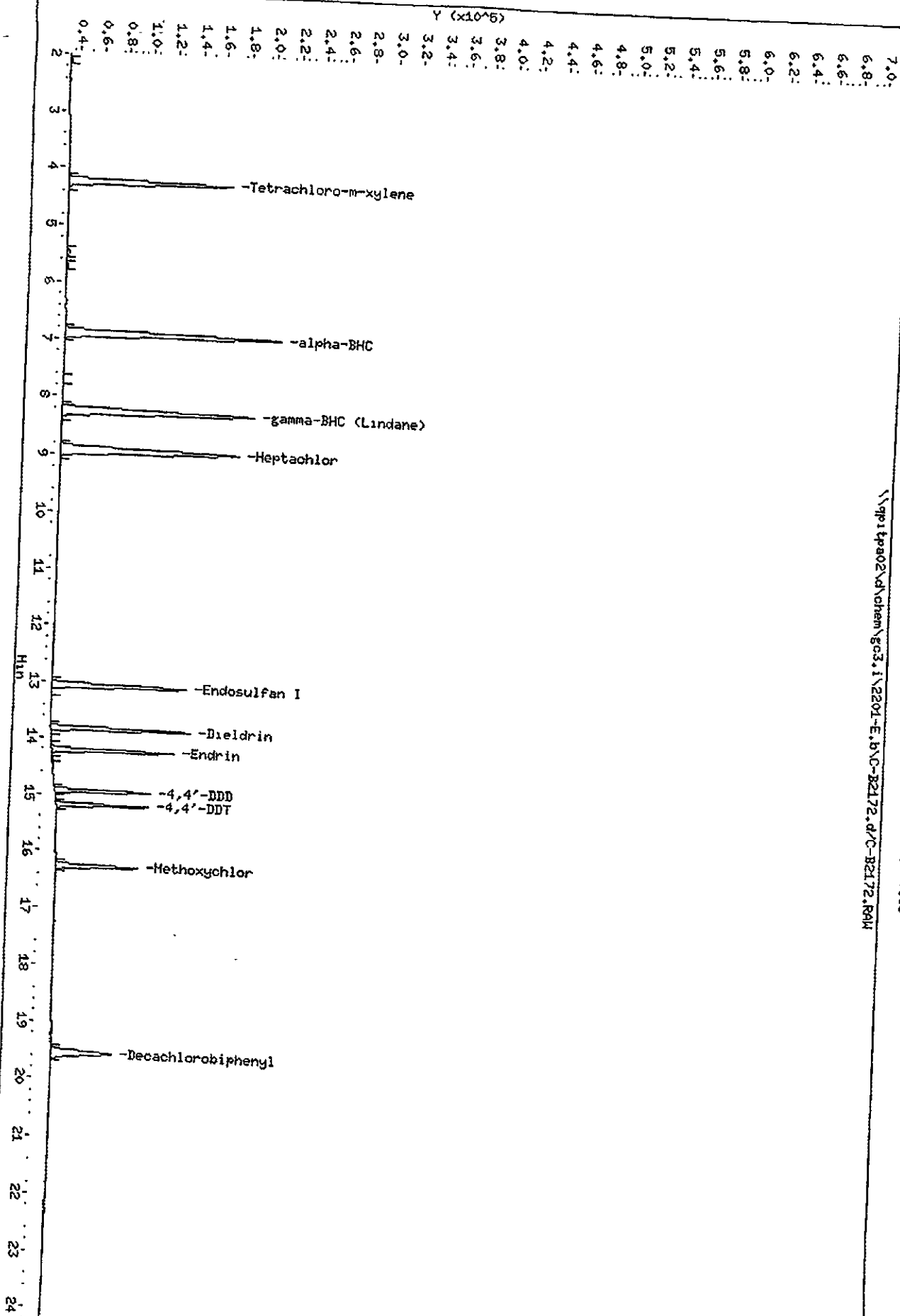
Column phase: RTX-1701

Instrument: gc3.1

Operator: 010139

Column diameter: 0.53

\\pp1tpa02\chem\gc3.1\2201-E.b\c-B2172.d\c-B2172.RAW



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2173.d
Lab Smp Id: MEDB
Inj Date : 21-MAR-2001 14:02
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDB,2201-E.b,,4-INDB.sub,,2,3
Misc Info : 190-124-9
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 15:34 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
11 Aldrin	9.866	9.858	0.008	125478	0.02500	0.02684
7 beta-BHC	11.183	11.175	0.008	69166	0.02500	0.02617
8 delta-BHC	11.891	11.891	0.000	141491	0.02500	0.02683
12 Heptachlor epoxide	12.350	12.341	0.009	118800	0.02500	0.02637
13 gamma-Chlordane	13.208	13.200	0.008	118200	0.02500	0.02581
14 alpha-Chlordane	13.350	13.341	0.009	114317	0.02500	0.02596
16 4,4'-DDE	13.550	13.541	0.009	112740	0.02500	0.02591
22 Endosulfan II	15.033	15.033	0.000	84442	0.02500	0.02581
24 Endrin aldehyde	15.766	15.758	0.008	46092	0.02500	0.02605
26 Endosulfan sulfate	16.383	16.375	0.008	60139	0.02500	0.02720
27 Endrin ketone	17.241	17.233	0.008	63327	0.02500	0.02657

Data File: \\spitpa02\chem\gc3.1\2201-E.b\C-B2173.d
Date: 24-Mar-2001 14:02
Client ID:

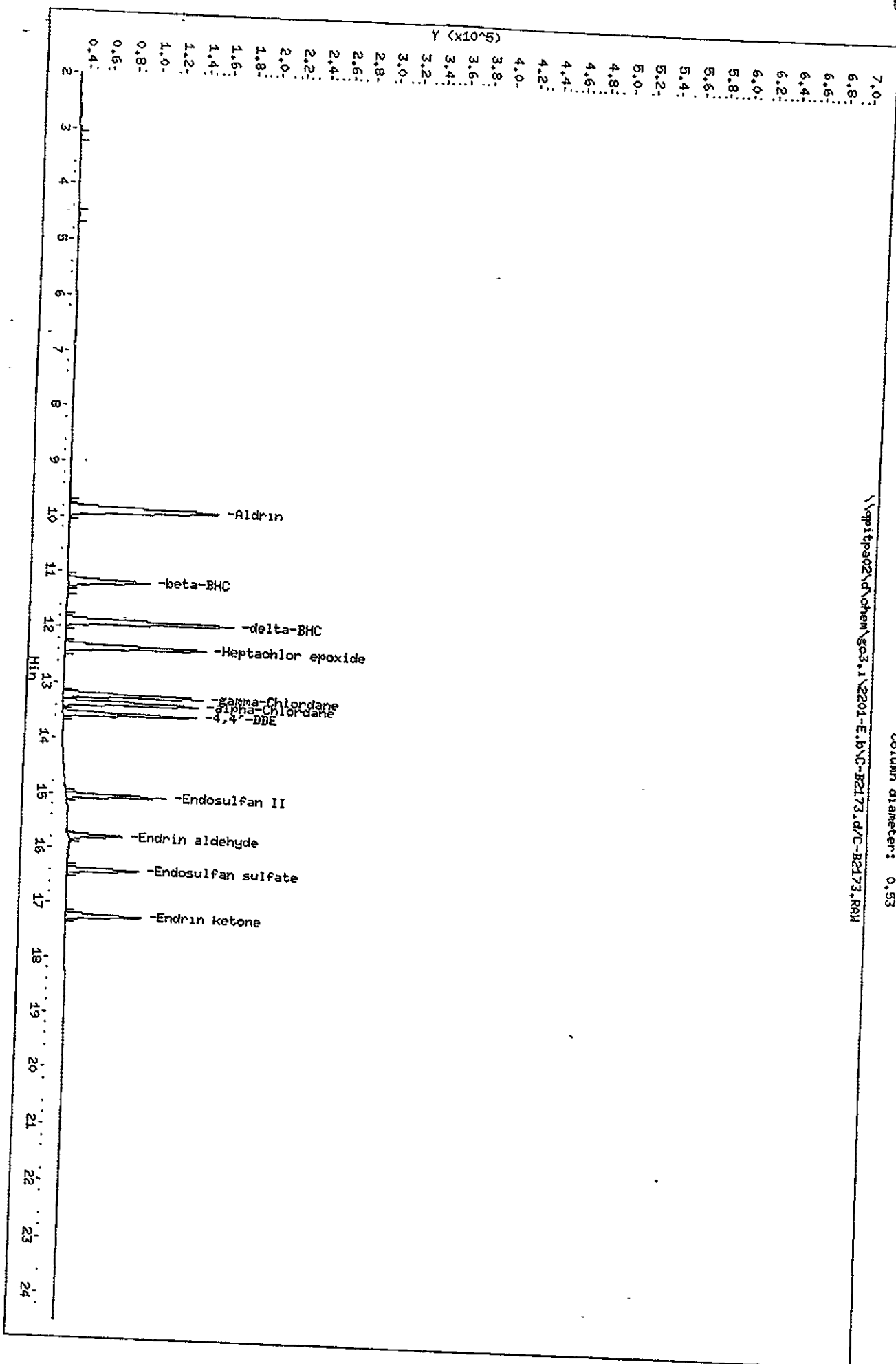
Sample Info: HEDB,2201-E.b,,4-INDB,suf,,2,3

Column Phase: RTX-1701

Instrument: gc3.1

Operator: 010139

Column diameter: 0.53



Report Date : 21-Mar-2001 11:06

6D
HP58903E
RT7-50

678 351

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Quant Method : ESTD Target Version : 4.04
Last Update : 21-Mar-2001 11:04 Number of Cpnds : 24
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	4.458	4.408-4.508	2.55e+006
5 alpha-BHC	6.567	6.517-6.617	3.14e+006
6 gamma-BHC (Lindane)	8.025	7.975-8.075	2.77e+006
7 beta-BHC	8.975	8.925-9.025	1.46e+006
8 delta-BHC	9.917	9.867-9.967	2.56e+006
9 Chlordane	8.392	8.342-8.442	8.75e+004
	9.025	8.975-9.075	1.10e+005
	12.958	12.908-13.008	2.96e+005
	13.308	13.258-13.358	3.32e+005
	9.025	8.975-9.075	2.22e+006
10 Heptachlor	10.258	10.208-10.308	2.15e+006
11 Aldrin	12.450	12.400-12.500	2.53e+006
12 Heptachlor epoxide	12.958	12.908-13.008	2.80e+006
13 gamma-Chlordane	13.317	13.267-13.367	2.85e+006
14 alpha-Chlordane	13.350	13.300-13.400	2.54e+006
15 Endosulfan I	13.883	13.833-13.933	2.98e+006
16 4,4'-DDE	14.050	14.000-14.100	2.89e+006
17 Dieldrin	14.958	14.908-15.008	5.06e+004
18 Toxaphene	15.142	15.092-15.192	6.02e+004
	15.558	15.508-15.608	4.56e+004
	16.675	16.625-16.725	3.70e+004
20 Endrin	14.658	14.608-14.708	2.54e+006
21 4,4'-DDD	14.917	14.867-14.967	2.38e+006
22 Endosulfan II	15.108	15.058-15.158	2.64e+006

678 352

Report Date : 21-Mar-2001 11:06

6D
HP58903E
RT750

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m

Compound	RT	RT Window	RF
23 4,4'-DDT	15.392	15.342-15.442	2.38e+006
24 Endrin aldehyde	15.658	15.608-15.708	2.00e+006
25 Methoxychlor	17.175	17.125-17.225	9.45e+005
26 Endosulfan sulfate	15.967	15.917-16.017	2.13e+006
27 Endrin ketone	17.525	17.475-17.575	1.93e+006
\$ 30 Decachlorobiphenyl	21.475	21.425-21.525	1.26e+006

Report Date : 21-Mar-2001 11:07

62
HP58903E
RZ-50

678 353

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 20-MAR-2001 11:02
End Cal Date : 20-MAR-2001 16:28
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Cal Date : 21-Mar-2001 11:04 eppingerd
Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2141.d
Level 2: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2142.d
Level 3: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2143.d
Level 4: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2144.d
Level 5: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2145.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRF	% RSD
-----	-----	-----	-----	-----	-----	-----	-----
5 alpha-BHC	3254000	3185300	3226960	3142760	2866760	3135156	4.971
6 gamma-BHC (Lindane)	2982200	2770800	2857400	2738540	2493590	2768506	6.513
7 beta-BHC	1713200	1588600	1453800	1348880	1191270	1459150	13.930
8 delta-BHC	2643200	2618300	2624160	2567680	2342950	2559258	4.849
9 Chlordane(1)	+++++	+++++	87452	+++++	+++++	87452	0.000
(2)	+++++	+++++	109556	+++++	+++++	109556	0.000
(3)	+++++	+++++	295812	+++++	+++++	295812	0.000
(4)	+++++	+++++	332108	+++++	+++++	332108	0.000
10 Heptachlor	2475600	2194800	2233880	2180860	1991850	2215398	7.806
11 Aldrin	2267800	2220900	2189680	2124800	1929790	2146594	6.143
12 Heptachlor epoxide	2800200	2660300	2547240	2435280	2217900	2532184	8.756
13 gamma-Chlordane	3115200	2941400	2822400	2675700	2435000	2797940	9.260
14 alpha-Chlordane	3186200	3018000	2858440	2727560	2462850	2850610	9.706
15 Endosulfan I	2809000	2467600	2587040	2526280	2299800	2537944	7.310
16 4,4'-DDE	3108400	3063300	3045800	2939020	2734650	2978234	5.026
17 Dieldrin	3096600	2809800	2949240	2901700	2691860	2889840	5.249
18 Toxaphene(1)	+++++	+++++	50611	+++++	+++++	50611	0.000
(2)	+++++	+++++	60178	+++++	+++++	60178	0.000
(3)	+++++	+++++	45566	+++++	+++++	45566	0.000
(4)	+++++	+++++	37038	+++++	+++++	37038	0.000
20 Endrin	2648200	2457300	2597560	2575120	2417950	2539226	3.838
21 4,4'-DDD	2449000	2316100	2435600	2414140	2273790	2377726	3.282
22 Endosulfan II	2835600	2734700	2670320	2580580	2380460	2640332	6.534
23 4,4'-DDT	2484800	2320800	2415320	2394380	2260180	2375096	3.657
24 Endrin aldehyde	2206200	2102200	2006920	1913000	1788640	2003392	8.095
25 Methoxychlor	1056600	930500	952780	923720	859095	944539	7.590

678 354

Report Date : 21-Mar-2001 11:07

62
HP589032
RTZ-50

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 20-MAR-2001 11:02
 End Cal Date : 20-MAR-2001 16:28
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Cal Date : 21-Mar-2001 11:04 eppingerd
 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			
26 Endosulfan sulfate	2247200	2180700	2159680	2113560	1971340	2134496	4.831
27 Endrin ketone	2008200	1978500	1968640	1915020	1794790	1933030	4.361
\$ 1 Tetrachloro-m-xylene	3007600	2741600	2556360	2349880	2076910	2546470	14.022
\$ 30 Decachlorobiphenyl	1471400	1293200	1273600	1195300	1069950	1260690	11.650

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

678 355

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

GC Column: RTX-50 ID: 0.53 (mm) Init. Calib. Date(s): 03/20/01 03/20/01

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM): _____

Date Analyzed : 03/20/01

Lab Sample ID (PEM): EVALB

Time Analyzed : 1033

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.67	14.61	14.71	0.02545	0.02500	1.8
4,4'-DDT	15.39	15.34	15.44	0.02572	0.02500	2.9

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

0.9
~~0.76~~

Endrin % breakdown (1):

3.6
~~4.88~~

Combined % breakdown (1):

5.64
4.5 DE
321-01

678 356

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: METHODS

GC Column: RTX-50

ID: 0.53

(mm)

Init. Calib. Date(s): 03/20/01 03/20/01

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 03/20/01

Lab Sample ID (PEM): EVALB

Time Analyzed : 1757

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.66	14.61	14.71	0.02633	0.02500	5.3
4,4'-DDT	15.39	15.34	15.44	0.02680	0.02500	7.2

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

~~0.75~~
0.9

Endrin % breakdown (1):

~~5.49~~
3.9

Combined % breakdown (1):

~~6.24~~
4.8DE
3-21-01

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY **678 357**

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: METHODS
 GC Column: RTX-50 ID: 0.53 (mm) Init. Calib. Date(s): 03/20/01 03/20/01
 EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 03/21/01
 Lab Sample ID (PEM): EVALB Time Analyzed : 1104

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.67	14.61	14.71	0.02518	0.02500	0.7
4,4'-DDT	15.40	15.34	15.44	0.02411	0.02500	-3.6

4,4'-DDT % breakdown (1): 0.9 Endrin % breakdown (1): 1.2
~~0.67~~ ~~1.34~~
 Combined % breakdown (1): 2.21
2.1 DE 321-01

673 358

7E HP58903E
217-50Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2163.d
Report Date: 21-Mar-2001 11:16

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 01:21
 Lab File ID: C-A2163.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
 Analysis Type: Init. Cal. Times: 11:02 16:28
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m

COMPOUND	RRF	RFO	MIN	%D	MAX
-----	-----	-----	-----	-----	-----
\$ 1 Tetrachloro-m-xylene	2546470	2613480	0.000	2.6	15.0
5 alpha-BHC	3135156	3285040	0.010	4.8	15.0
6 gamma-BHC (Lindane)	2768506	2885720	0.010	4.2	15.0
10 Heptachlor	2215398	2347840	0.010	6.0	15.0
15 Endosulfan I	2537944	2498240	0.010	-1.6	15.0
17 Dieldrin	2889840	2955600	0.010	2.3	15.0
20 Endrin	2539226	2669320	0.010	5.1	15.0
21 4,4'-DDD	2377726	2447280	0.010	2.9	15.0
23 4,4'-DDT	2375096	2430520	0.010	2.3	15.0
25 Methoxychlor	944539	986880	0.010	4.5	15.0
\$ 30 Decachlorobiphenyl	1260690	1321040	0.010	4.8	15.0

Data File: \\gpitpa02\d\chem\gc3.i\2201-E.b\C-A2164.d
Report Date: 21-Mar-2001 11:16

STL-Pittsburgh

7E HP58903E
RTZ-50
678 350

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 01:51
Lab File ID: C-A2164.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
Analysis Type: Init. Cal. Times: 11:02 16:28
Lab Sample ID: MEDB Quant Type: ESTD
Method: \\gpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m

COMPOUND	RRF	RF0	MIN	MAX
11 Aldrin	2146594	2159600	0.010	0.6
7 beta-BHC	1459150	1447800	0.010	-0.8
8 delta-BHC	2559258	2635680	0.010	3.0
12 Heptachlor epoxide	2532184	2511240	0.010	-0.8
13 gamma-Chlordane	2797940	2755920	0.010	-1.5
14 alpha-Chlordane	2850610	2503360	0.010	-12.2
16 4,4'-DDE	2978234	2972040	0.010	-0.2
22 Endosulfan II	2640332	2609000	0.010	-1.2
24 Endrin aldehyde	2003392	1940600	0.010	-3.1
26 Endosulfan sulfate	2134496	2115880	0.010	-0.9
27 Endrin ketone	1933030	1979000	0.010	2.4

673 360

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2168.d
Report Date: 21-Mar-2001 12:547E HP58903E
RT-50

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 11:33
 Lab File ID: C-A2168.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
 Analysis Type: Init. Cal. Times: 11:02 16:28
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m

COMPOUND	RRF	RFO	MIN	MAX
\$ 1 Tetrachloro-m-xylene	2546470	2575800	0.000	1.2 15.0
5 alpha-BHC	3135156	3225480	0.010	2.9 15.0
6 gamma-BHC (Lindane)	2768506	2861960	0.010	3.4 15.0
10 Heptachlor	2215398	2296960	0.010	3.7 15.0
15 Endosulfan I	2537944	2586280	0.010	1.9 15.0
17 Dieldrin	2889840	2952200	0.010	2.2 15.0
20 Endrin	2539226	2688400	0.010	5.9 15.0
21 4,4'-DDD	2377726	2380040	0.010	0.1 15.0
23 4,4'-DDT	2375096	2352440	0.010	-1.0 15.0
25 Methoxychlor	944539	959760	0.010	1.6 15.0
\$ 30 Decachlorobiphenyl	1260690	1298560	0.010	3.0 15.0

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2169.d
Report Date: 21-Mar-2001 12:54

7E HP58903E
RT-50

STL-Pittsburgh

678 361

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 12:03
Lab File ID: C-A2169.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
Analysis Type: Init. Cal. Times: 11:02 16:28
Lab Sample ID: MEDB Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m

COMPOUND	RRF	RFO	MIN	MAX
			RRF	%D
11 Aldrin	2146594	2139560	0.010	-0.3
7 beta-BHC	1459150	1425680	0.010	-2.3
8 delta-BHC	2559258	2605560	0.010	1.8
12 Heptachlor epoxide	2532184	2484600	0.010	-1.9
13 gamma-Chlordane	2797940	2711680	0.010	-3.1
14 alpha-Chlordane	2850610	2737120	0.010	-4.0
16 4,4'-DDE	2978234	2968720	0.010	-0.3
22 Endosulfan II	2640332	2534720	0.010	-4.0
24 Endrin aldehyde	2003392	1931520	0.010	-3.6
26 Endosulfan sulfate	2134496	2140520	0.010	0.3
27 Endrin ketone	1933030	1942680	0.010	0.5

678 362

7E HP589032

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2172.d
Report Date: 21-Mar-2001 15:25

RT7-50

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 13:32
 Lab File ID: C-A2172.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
 Analysis Type: Init. Cal. Times: 11:02 16:28
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m

COMPOUND	RRF	RFO	MIN	MAX
-----	-----	-----	-----	-----
\$ 1 Tetrachloro-m-xylene	2546470	2628360	0.000	3.2 15.0
5 alpha-BHC	3135156	3313040	0.010	5.7 15.0
6 gamma-BHC (Lindane)	2768506	2916040	0.010	5.3 15.0
10 Heptachlor	2215398	2331080	0.010	5.2 15.0
15 Endosulfan I	2537944	2661280	0.010	4.9 15.0
17 Dieldrin	2889840	3040920	0.010	5.2 15.0
20 Endrin	2539226	2741080	0.010	7.9 15.0
21 4,4'-DDD	2377726	2420800	0.010	1.8 15.0
23 4,4'-DDT	2375096	2415800	0.010	1.7 15.0
25 Methoxychlor	944539	993360	0.010	5.2 15.0
\$ 30 Decachlorobiphenyl	1260690	1321360	0.010	4.8 15.0

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2173.d
 Report Date: 21-Mar-2001 15:25

7E HP58903E
 RTZ-50

STL-Pittsburgh

673 363

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc3.i Injection Date: 21-MAR-2001 14:02
 Lab File ID: C-A2173.d Init. Cal. Date(s): 20-MAR-2001 20-MAR-2001
 Analysis Type: Init. Cal. Times: 11:02 16:28
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m

COMPOUND	RRF	RFO	MIN	MAX
-----	-----	-----	-----	-----
11 Aldrin	2146594	2152920	0.010	0.3
7 beta-BHC	1459150	1438640	0.010	-1.4
8 delta-BHC	2559258	2612160	0.010	2.1
12 Heptachlor epoxide	2532184	2513040	0.010	-0.8
13 gamma-Chlordane	2797940	2730920	0.010	-2.4
14 alpha-Chlordane	2850610	2789280	0.010	-2.2
16 4,4'-DDE	2978234	3016760	0.010	1.3
22 Endosulfan II	2640332	2566640	0.010	-2.8
24 Endrin aldehyde	2003392	1956560	0.010	-2.3
26 Endosulfan sulfate	2134496	2179880	0.010	2.1
27 Endrin ketone	1933030	1975080	0.010	2.2

678 364

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: ,

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

GC Column: RTX-50 ID: 0.53 (mm) Init. Calib. Date(s): 03/20/01 03/20/01

Instrument ID: GC3

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
TCX: 4.46			DCB: 21.48		
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
=====	=====	=====	=====	=====	=====
01	EVALB	03/20/01	1033	4.47	21.48
02	MEDTOX	03/20/01	1102	4.47	21.48
03	MEDCHLOR	03/20/01	1132	4.47	21.48
04	LOWA	03/20/01	1202	4.47	21.48
05	MLOWA	03/20/01	1231	4.47	21.48
06	MEDA	03/20/01	1301	4.46	21.48
07	MHIGHA	03/20/01	1331	4.47	21.48
08	HIGHA	03/20/01	1400	4.46	21.48
09	LOWB	03/20/01	1430		
10	MLOWB	03/20/01	1459		
11	MEDB	03/20/01	1529		
12	MHIGHB	03/20/01	1559		
13	HIGHB	03/20/01	1628		
14	2ND A	03/20/01	1658	4.47	21.48
15	2ND B	03/20/01	1728		
16	EVALB	03/20/01	1757	4.47	21.48
17	DF/24-B/1073 DXGMH1AD	03/20/01	1827	4.47	21.48
18	PBLK5434 DXJT71AA	03/20/01	1856	4.47	21.47
19	MEDA	03/21/01	0121	4.46	21.48
20	MEDB	03/21/01	0151		
21	EVALB	03/21/01	1104	4.47	21.49
22	MEDA	03/21/01	1133	4.47	21.49
23	MEDB	03/21/01	1203		
24	LCS5434 DXJT71AC	03/21/01	1233	4.47	21.49
25	LCD5434 DXJT71AD	03/21/01	1302	4.47	21.49
26	MEDA	03/21/01	1332	4.47	21.49
27	MEDB	03/21/01	1402		
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: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2133.d
Report Date: 21-Mar-2001 11:15

678 365

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2133.d
Lab Smp Id: EVALB
Inj Date : 20-MAR-2001 10:33
Operator : 010139 Inst ID: gc3.i
Smp Info : EVALB,2201-E.b,,EVALBR.sub,,3,1
Misc Info : 190-102-10
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Meth Date : 21-Mar-2001 11:12 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC061

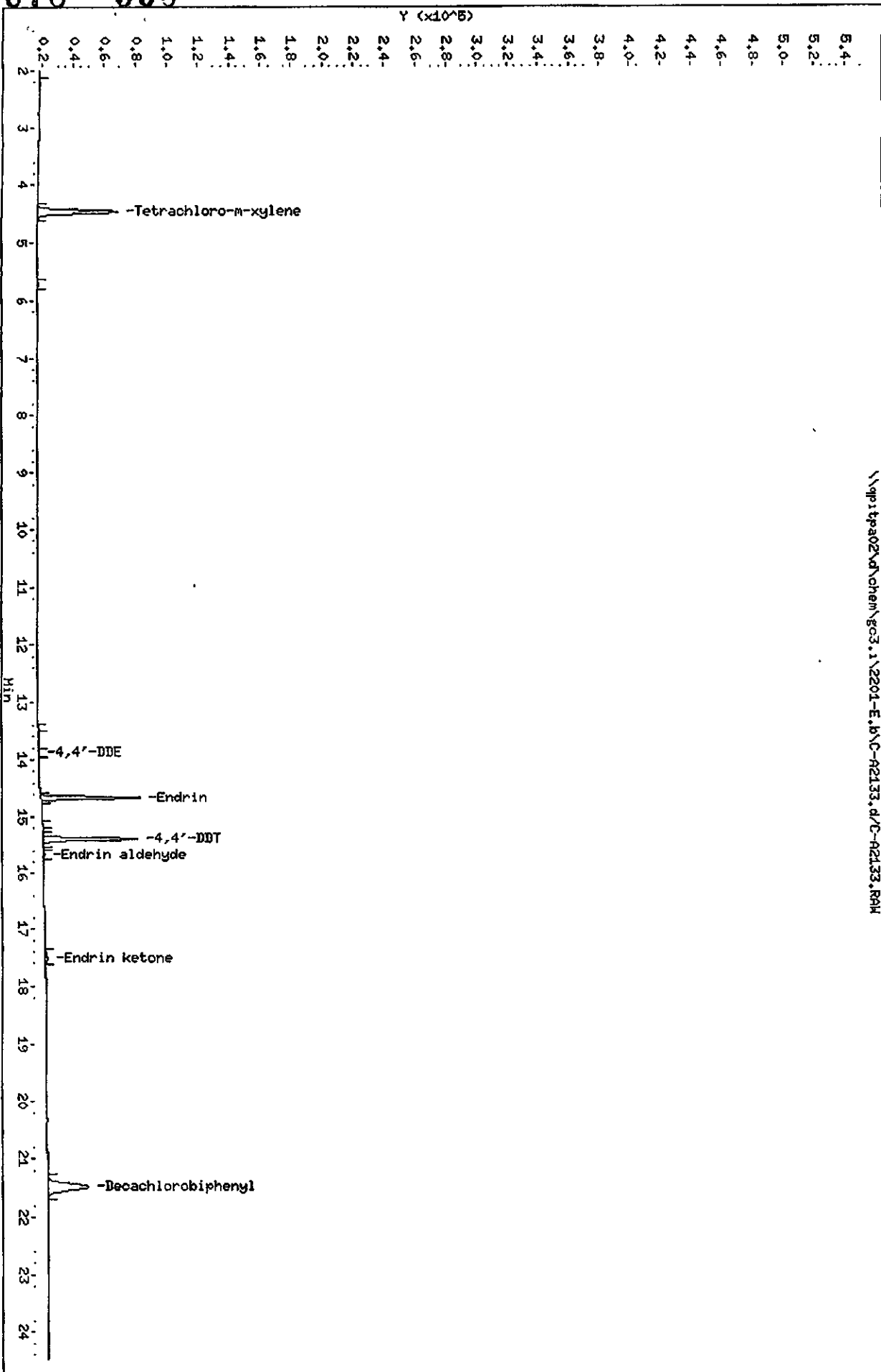
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
*****	00	*****	*****	*****	*****	*****
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	51702	0.02030	0.02030(R)
16 4,4'-DDE	13.883	13.883	0.000	567	0.00019	0.0001904
20 Endrin	14.666	14.658	0.008	64615	0.02545	0.02545
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.391	15.391	0.000	61096	0.02572	0.02572
24 Endrin aldehyde	15.666	15.658	0.008	900	<0.0	0.0004492
27 Endrin ketone	17.525	17.525	0.000	1492	<0.0	0.0007718
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	26462	0.02099	0.02099(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT 0.90%
ENDRIN 3.6%

678 366



Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\GC-A2133.d
 Date : 20-MAR-2001 10:33
 Client ID:
 Sample Info: EVALB,2201-E.b,EVALBR,sub,3.1
 Column phase: RTX-50

Instrument: gc3.1
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc3.1\2201-E.b\GC-A2133.d\GC-A2133.RAW

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2134.d
Report Date: 21-Mar-2001 10:54

678 367

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2134.d
Lab Smp Id: MEDTOX
Inj Date : 20-MAR-2001 11:02
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDTOX,2201-E.b,,1-TOX.sub,,1,3
Misc Info : 190-123-13
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Meth Date : 21-Mar-2001 10:54 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 11:02 Cal File: C-A2134.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-TOX.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
18 Toxaphene	14.958	14.958	0.000	50611	1.00000	1.000 (M)
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	59220	0.02500	0.02500
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	31235	0.02500	0.02500

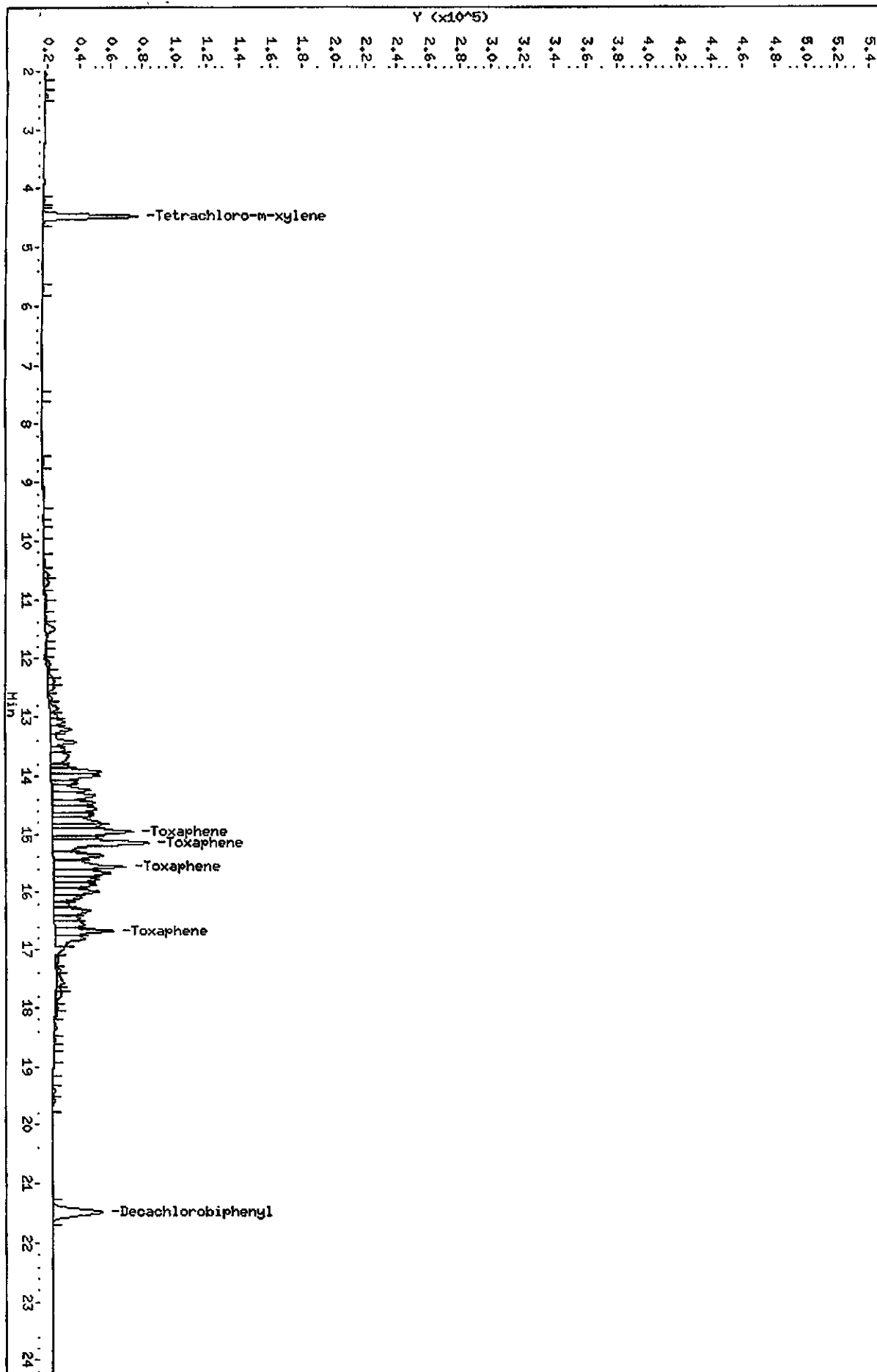
QC Flag Legend

M - Compound response manually integrated.

Data File: \\vapitpa02\chem\gc3.1\2201-E.b\C-A2134.d
Date: 20-MAR-2001 11:02
Client ID:
Sample Info: MEDTOX, 2201-E.b, 1-TOX.sub, 1,3
Column phase: RTX-50

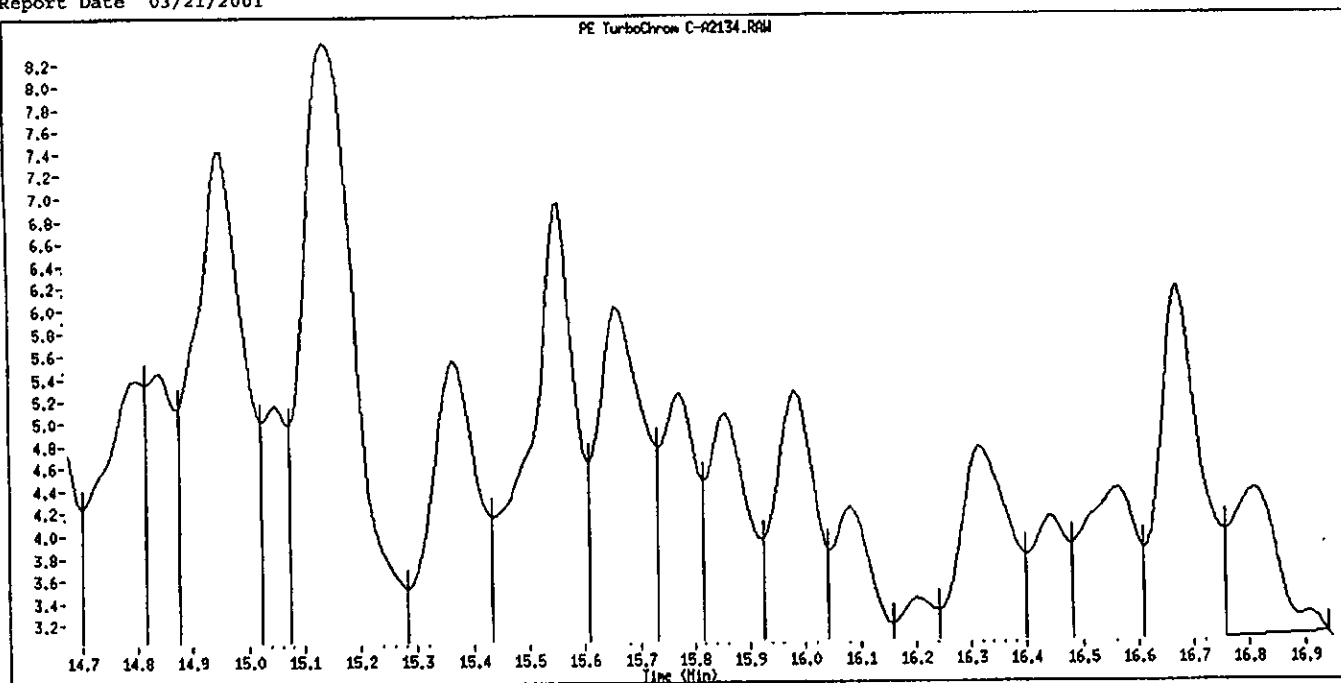
Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\vapitpa02\chem\gc3.1\2201-E.b\C-A2134.d\C-A2134.RM

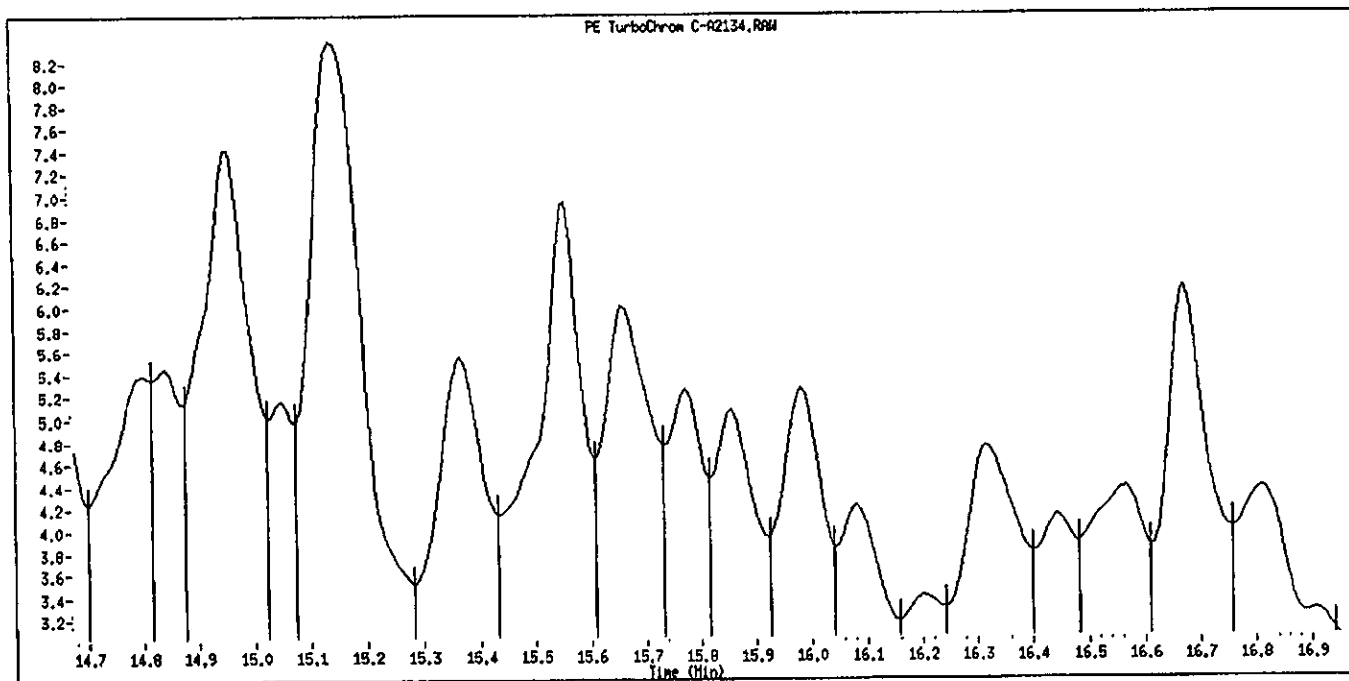


Data File Name C-A2134 d
Inj Date and Time: 20-MAR-2001 11:02
Instrument ID: gc3 1
Client ID:
Compound Name: Toxaphene
CAS #: 8001-35-2
Report Date 03/21/2001

673 369



Original Integration



Manual Integration

Manually Integrated By EppingerD
Manual Integration Reason: Poor Chromatography

678 370

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2135.d
Report Date: 21-Mar-2001 10:54

STL-Pittsburgh

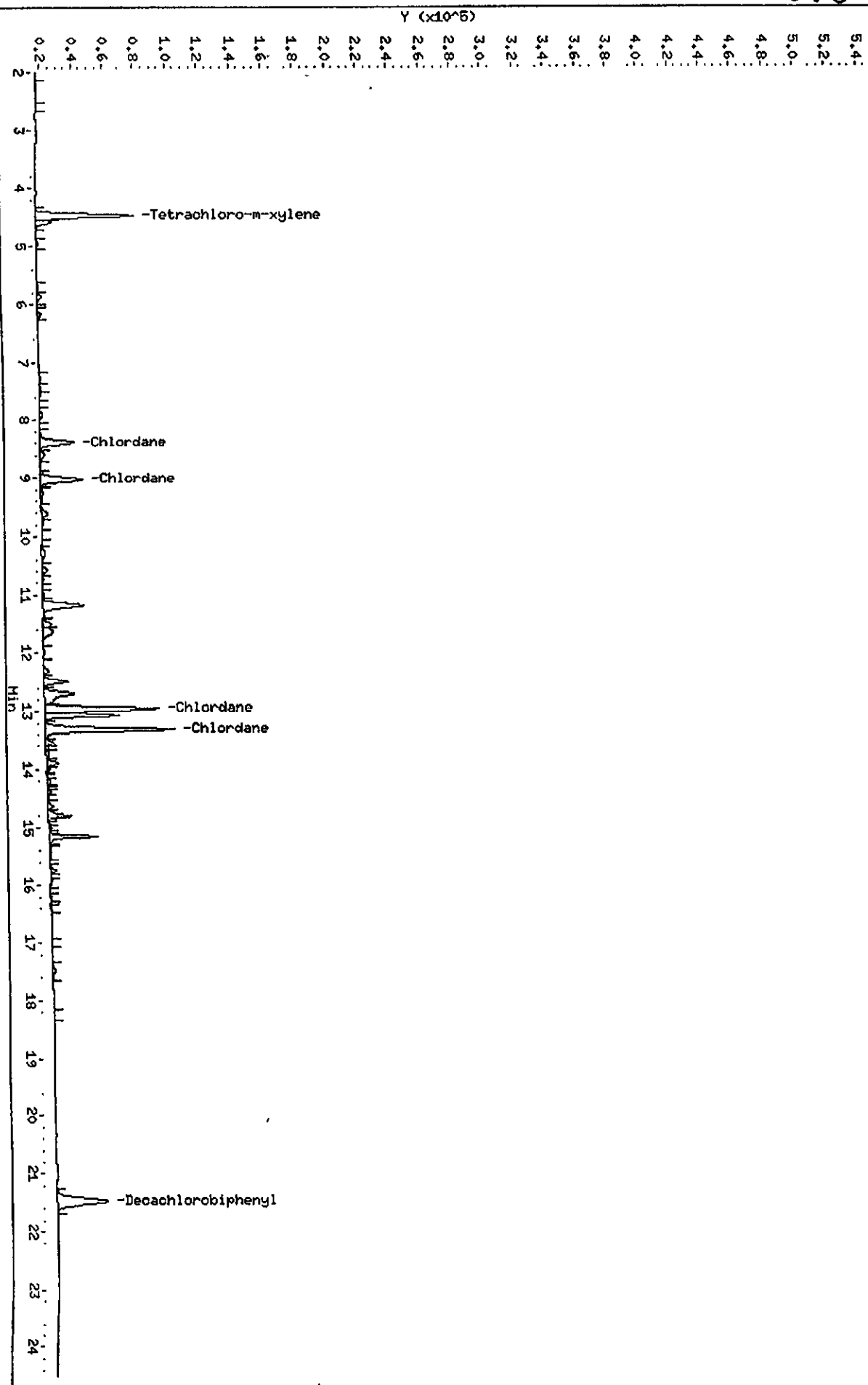
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2135.d
Lab Smp Id: MEDCHLOR
Inj Date : 20-MAR-2001 11:32
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDCHLOR,2201-E.b,,2-CHLO.sub,,1,3
Misc Info : 190-123-14
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Meth Date : 21-Mar-2001 10:54 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 11:32 Cal File: C-A2135.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 2-CHLO.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
9 Chlordane	8.391	8.391	0.000	21863	0.25000	0.2500
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	62172	0.02500	0.02500
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	32411	0.02500	0.02500

Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\c-A2135.d
Date: 20-MAR-2001 11:32
Client ID:
Sample Info: MEDCHLOR, 2201-E.b, 2-CHL.D, sub., 1,3
Column phase: RTX-50

Instrument: gc3.1
Operator: 0410139
Column diameter: 0.53

\\pp1tpa02\chem\gc3.1\2201-E.b\c-A2135.d\c-A2135.RAW



678 372

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2136.d
 Report Date: 21-Mar-2001 11:06

STL-Pittsburgh

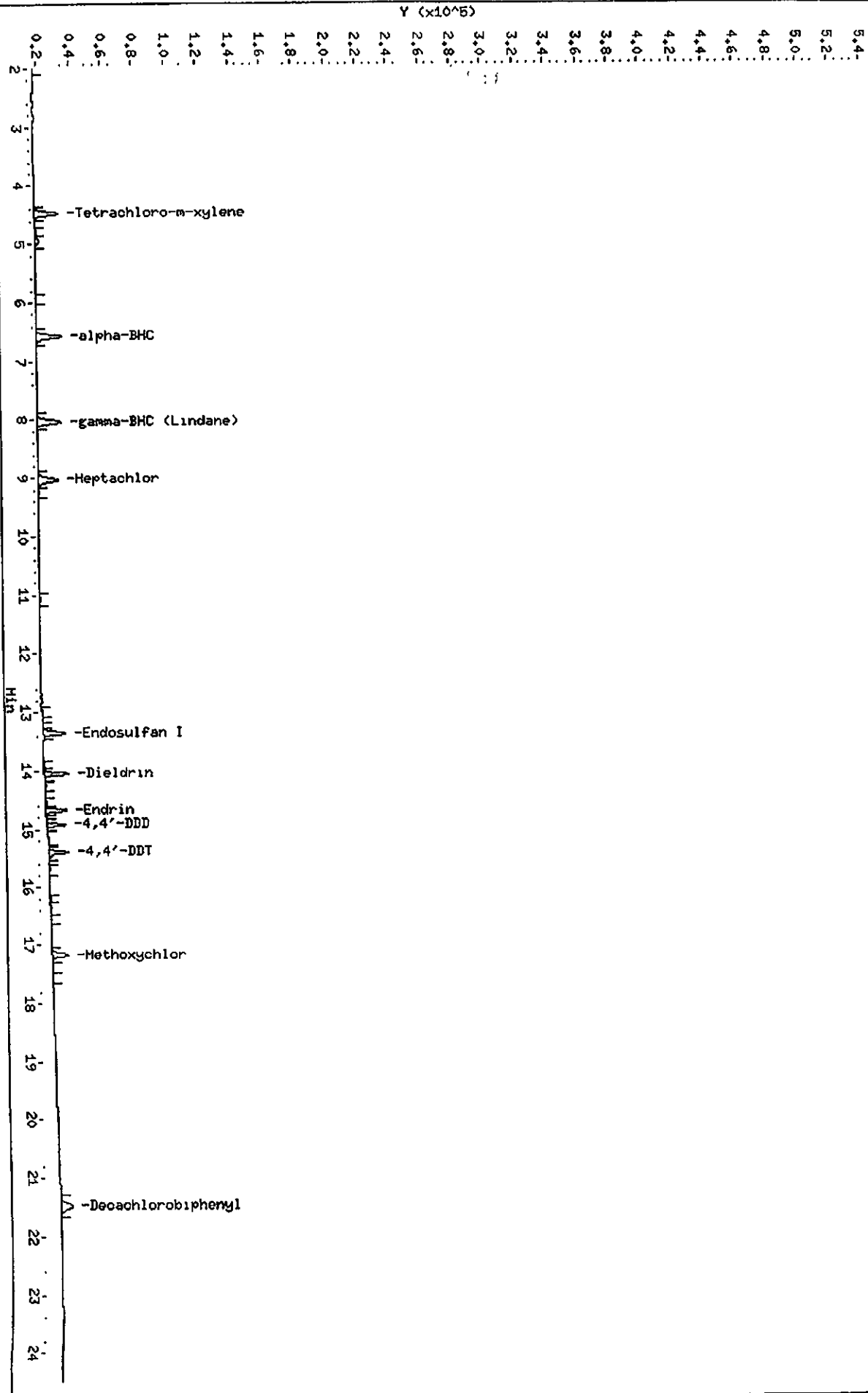
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2136.d
 Lab Smp Id: LOWA
 Inj Date : 20-MAR-2001 12:02
 Operator : 010139 Inst ID: gc3.i
 Smp Info : LOWA,2201-E.b,,3-INDA.sub,,1,1
 Misc Info : 190-124-1
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:04 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 12:02 Cal File: C-A2136.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	15038	0.00500	0.005474
5 alpha-BHC	6.575	6.566	0.009	16270	0.00500	0.005000
6 gamma-BHC (Lindane)	8.033	8.025	0.008	14911	0.00500	0.005000
10 Heptachlor	9.025	9.025	0.000	12378	0.00500	0.005000
15 Endosulfan I	13.350	13.350	0.000	14045	0.00500	0.005000
17 Dieldrin	14.050	14.050	0.000	15483	0.00500	0.005000
20 Endrin	14.666	14.658	0.008	13241	0.00500	0.005000
21 4,4'-DDD	14.916	14.916	0.000	12245	0.00500	0.005000
23 4,4'-DDT	15.391	15.391	0.000	12424	0.00500	0.005000
25 Methoxychlor	17.175	17.175	0.000	10566	0.01000	0.010000
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	7357	0.00500	0.005316

Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\c-A2136.d
Date : 20-MAR-2001 12:02
Client ID:
Sample Info: L049, 2201-E.b, 3-INDR, sub, 1,1
Column phase: RTX-50

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc3.1\2201-E.b\c-A2136.d\c-A2136.R04



673 374

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2137.d
 Report Date: 21-Mar-2001 11:06

STL-Pittsburgh

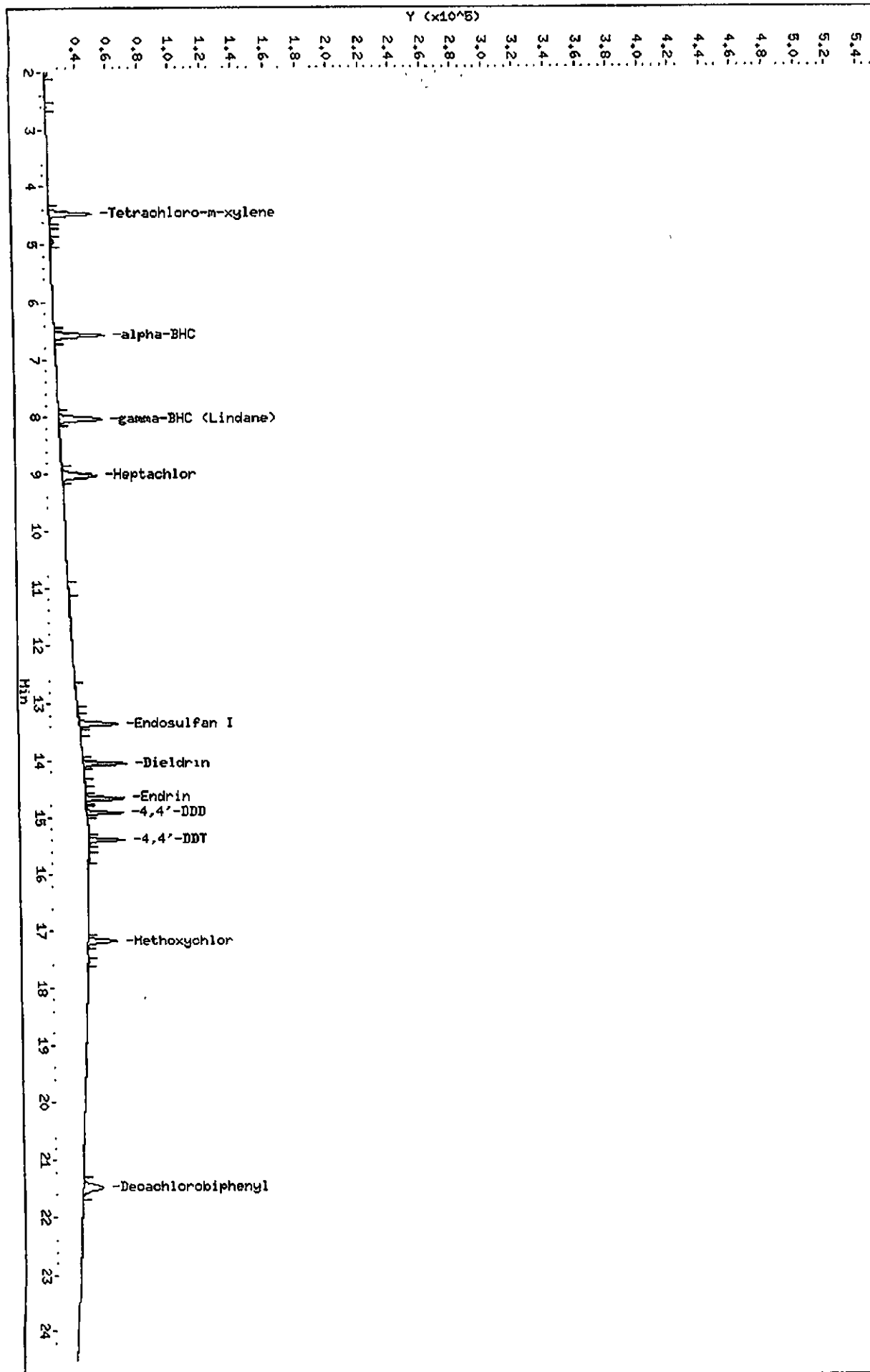
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2137.d
 Lab Smp Id: MLOWA
 Inj Date : 20-MAR-2001 12:31
 Operator : 010139 Inst ID: gc3.i
 Smp Info : MLOWA,2201-E.b,,3-INDA.sub,,1,2
 Misc Info : 190-124-2
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:04 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 12:31 Cal File: C-A2137.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	27416	0.01000	0.009986
5 alpha-BHC	6.575	6.566	0.009	31853	0.01000	0.009893
6 gamma-BHC (Lindane)	8.025	8.025	0.000	27708	0.01000	0.009632
10 Heptachlor	9.025	9.025	0.000	21948	0.01000	0.009399
15 Endosulfan I	13.350	13.350	0.000	24676	0.01000	0.009353
17 Dieldrin	14.050	14.050	0.000	28098	0.01000	0.009514
20 Endrin	14.658	14.658	0.000	24573	0.01000	0.009626
21 4,4'-DDD	14.916	14.916	0.000	23161	0.01000	0.009721
23 4,4'-DDT	15.391	15.391	0.000	23208	0.01000	0.009659
25 Methoxychlor	17.175	17.175	0.000	18610	0.02000	0.01873
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	12932	0.01000	0.009553

Data File: \\gpi1tpa02\chem\gc03.i\2201-E.b\C-A2137.d
Date: 20-MAR-2001 12:31
Client ID:
Sample Info: HLDNA,2201-E.b,3-INDA,sub,1,2
Column phase: RTX-50

Instrument: gc03.i
Operator: 010139
Column diameter: 0.53

\\gpi1tpa02\chem\gc03.i\2201-E.b\C-A2137.d\C-A2137.RAW



678 376

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2138.d
 Report Date: 21-Mar-2001 11:06

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2138.d
 Lab Smp Id: MEDA
 Inj Date : 20-MAR-2001 13:01
 Operator : 010139 Inst ID: gc3.i
 Smp Info : MEDA,2201-E.b,,3-INDA.sub,,1,3
 Misc Info : 190-124-3
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:04 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 13:01 Cal File: C-A2138.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	4.458	4.458	0.000	63909	0.02500	0.02308
5 alpha-BHC	6.566	6.566	0.000	80674	0.02500	0.02504
6 gamma-BHC (Lindane)	8.025	8.025	0.000	71435	0.02500	0.02489
10 Heptachlor	9.025	9.025	0.000	55847	0.02500	0.02427
15 Endosulfan I	13.350	13.350	0.000	64676	0.02500	0.02467
17 Dieldrin	14.050	14.050	0.000	73731	0.02500	0.02498
20 Endrin	14.658	14.658	0.000	64939	0.02500	0.02529
21 4,4'-DDD	14.916	14.916	0.000	60890	0.02500	0.02537
23 4,4'-DDT	15.391	15.391	0.000	60383	0.02500	0.02509
25 Methoxychlor	17.175	17.175	0.000	47639	0.05000	0.04861
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	31840	0.02500	0.02365

Data File: \\aptpa02\chem\gc3.1\2201-E.b\C-A2138.d
Date: 20-MAR-2001 13:01

Client ID:

Sample Info: MEDA, 2201-E.b, 3-INDA, sub, 1, 3

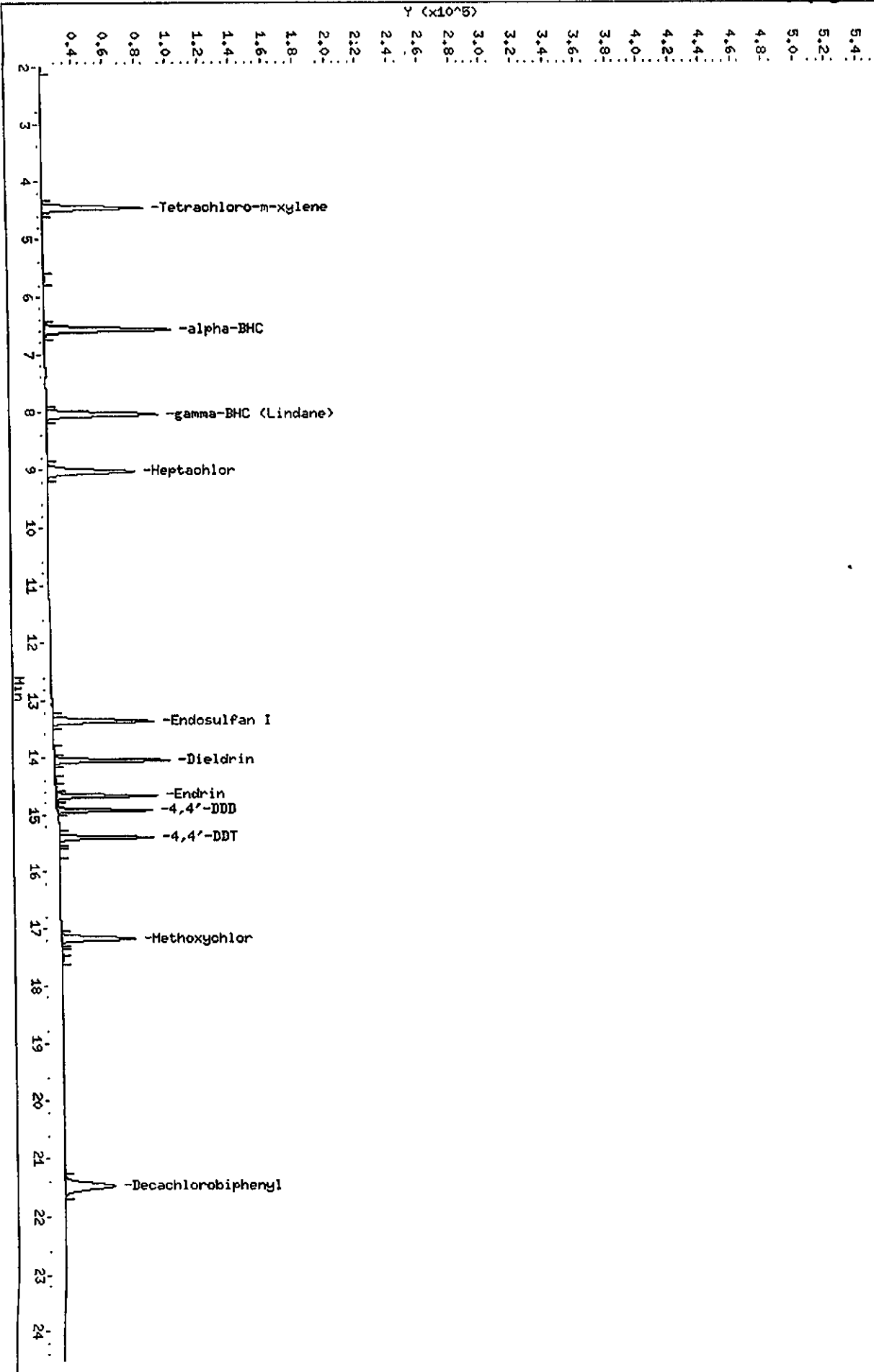
Column phase: RTX-50

Instrument: gc3.1

Operator: 010139

Column diameter: 0.53

\\aptpa02\chem\gc3.1\2201-E.b\C-A2138.d\C-A2138.RAW



678 378

Data File: \\gpitpa02\d\chem\gc3.i\2201-E.b\C-A2139.d
 Report Date: 21-Mar-2001 11:06

STL-Pittsburgh

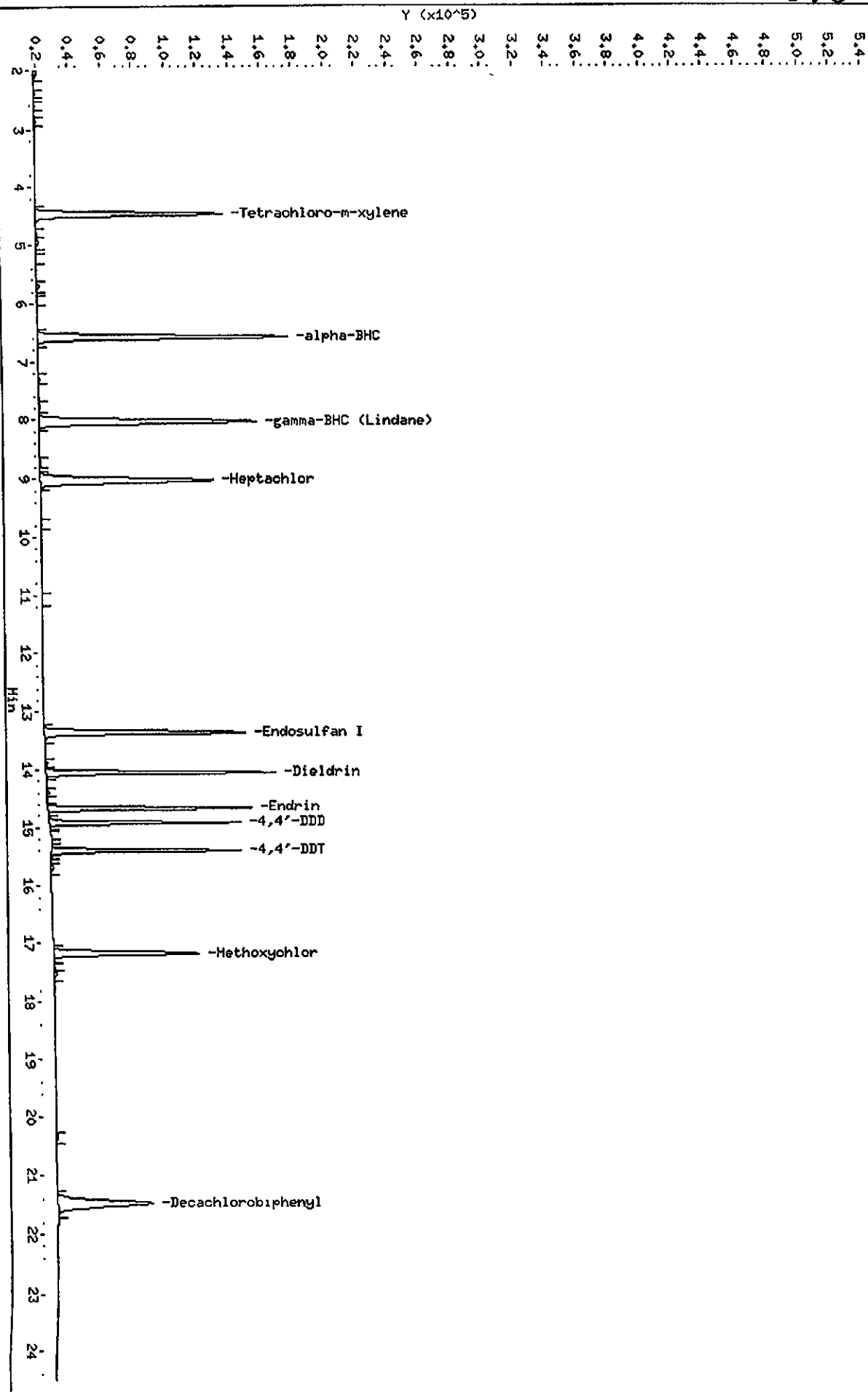
Data file : \\gpitpa02\d\chem\gc3.i\2201-E.b\C-A2139.d
 Lab Smp Id: MHIGHA
 Inj Date : 20-MAR-2001 13:31
 Operator : 010139 Inst ID: gc3.i
 Smp Info : MHIGHA,2201-E.b,,3-INDA.sub,,1,4
 Misc Info : 190-124-4
 Comment :
 Method : \\gpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:04 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 13:31 Cal File: C-A2139.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	117494	0.05000	0.04411
5 alpha-BHC	6.575	6.566	0.009	157138	0.05000	0.04907
6 gamma-BHC (Lindane)	8.025	8.025	0.000	136927	0.05000	0.04826
10 Heptachlor	9.025	9.025	0.000	109043	0.05000	0.04801
15 Endosulfan I	13.350	13.350	0.000	126314	0.05000	0.04863
17 Dieldrin	14.050	14.050	0.000	145085	0.05000	0.04936
20 Endrin	14.658	14.658	0.000	128756	0.05000	0.05011
21 4,4'-DDD	14.916	14.916	0.000	120707	0.05000	0.05022
23 4,4'-DDT	15.391	15.391	0.000	119719	0.05000	0.04980
25 Methoxychlor	17.175	17.175	0.000	92372	0.10000	0.09563
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	59765	0.05000	0.04568

Data File: \\p1tpa02\chem\gc3.1\2201-E.b\c-A2139.d
Date: 20-HAR-2001 13:31
Client ID:
Sample Info: HHIGHA,2201-E.b,3-INDH,sub,1,4
Column phase: RTX-50

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\p1tpa02\chem\gc3.1\2201-E.b\c-A2139.d\c-A2139.RAW



678 380

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2140.d
 Report Date: 21-Mar-2001 11:06

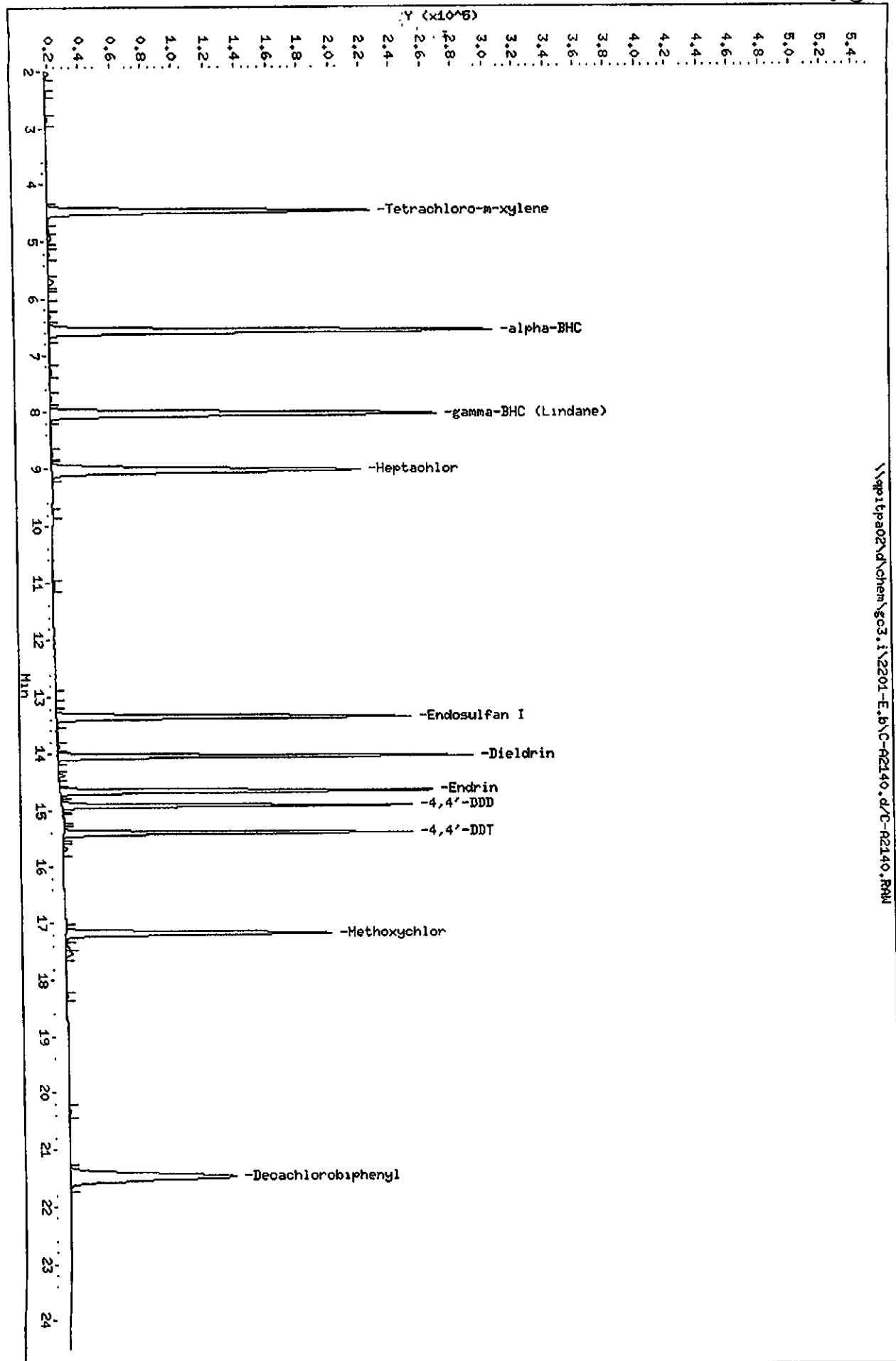
STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2140.d
 Lab Smp Id: HIGHA
 Inj Date : 20-MAR-2001 14:00
 Operator : 010139 Inst ID: gc3.i
 Smp Info : HIGHA,2201-E.b,,3-INDA.sub,,1,5
 Misc Info : 190-124-5
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:04 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 14:00 Cal File: C-A2140.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	4.458	4.458	0.000	207691	0.10000	0.08156
5 alpha-BHC	6.566	6.566	0.000	286676	0.10000	0.09144
6 gamma-BHC (Lindane)	8.025	8.025	0.000	249359	0.10000	0.09007
10 Heptachlor	9.016	9.025	-0.009	199185	0.10000	0.08991
15 Endosulfan I	13.341	13.350	-0.009	229980	0.10000	0.09062
17 Dieldrin	14.050	14.050	0.000	269186	0.10000	0.09315
20 Endrin	14.658	14.658	0.000	241795	0.10000	0.09522
21 4,4'-DDD	14.916	14.916	0.000	227379	0.10000	0.09563
23 4,4'-DDT	15.391	15.391	0.000	226018	0.10000	0.09516
25 Methoxychlor	17.175	17.175	0.000	171819	0.20000	0.1819
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	106995	0.10000	0.08487

Data File: \\ppltpa02\chem\gc3.1\2201-E.b\c-A2140.d
Date : 20-MAR-2001 14:00
Client ID:
Sample Info: HICHA,2201-E.b,,3-INDA.sub,,1.5
Column phase: RTX-50

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53



678 382

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2141.d
 Report Date: 21-Mar-2001 10:55

STL-Pittsburgh

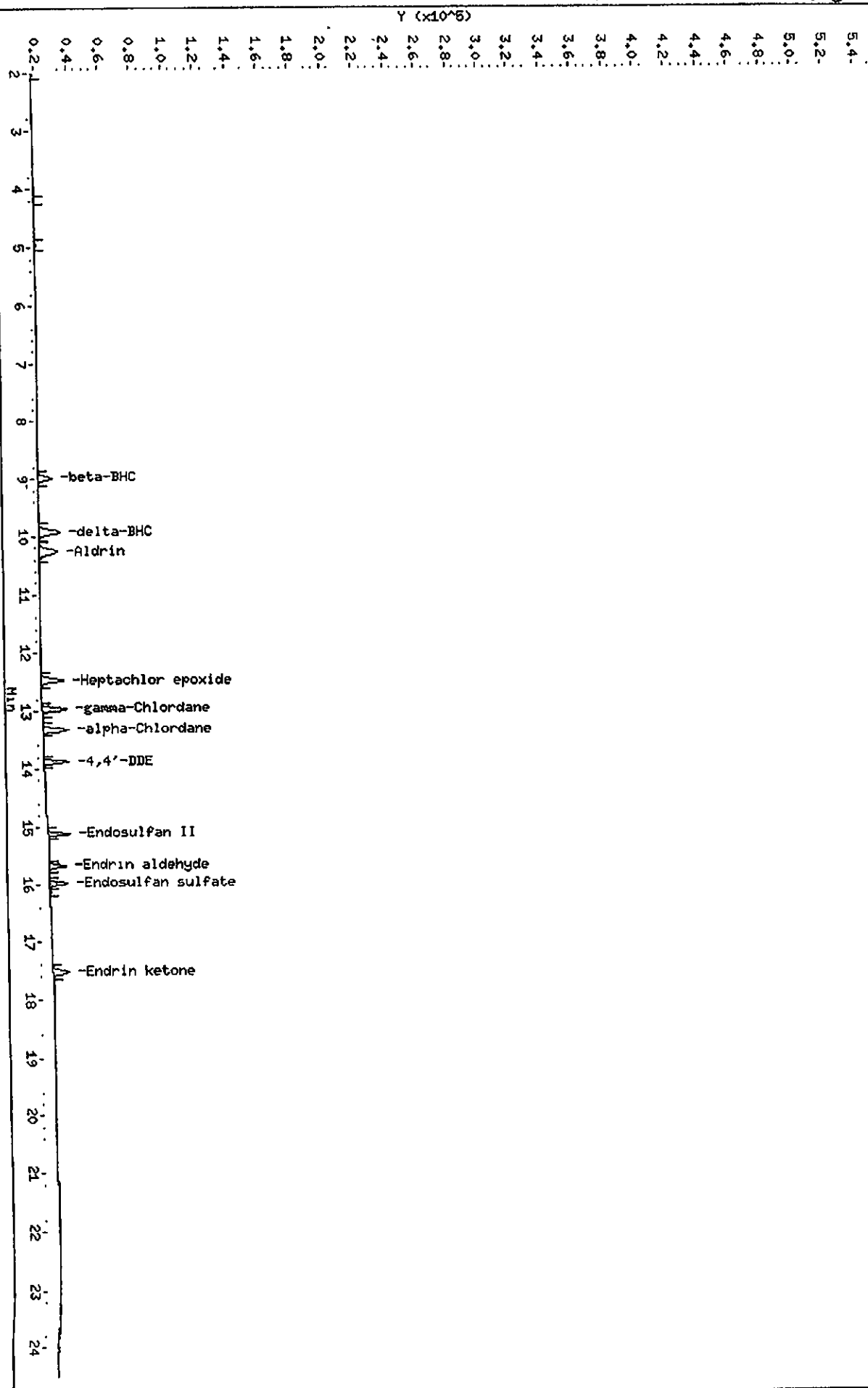
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2141.d
 Lab Smp Id: LOWB
 Inj Date : 20-MAR-2001 14:30
 Operator : 010139 Inst ID: gc3.i
 Smp Info : LOWB,2201-E.b,,4-INDB.sub,,1,1
 Misc Info : 190-124-7
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 10:55 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 14:30 Cal File: C-A2141.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	10.258	10.258	0.000	11339	0.00500	0.005000
7 beta-BHC	8.975	8.975	0.000	8566	0.00500	0.005000
8 delta-BHC	9.916	9.916	0.000	13216	0.00500	0.005000
12 Heptachlor epoxide	12.458	12.450	0.008	14001	0.00500	0.005000
13 gamma-Chlordane	12.958	12.958	0.000	15576	0.00500	0.005000
14 alpha-Chlordane	13.316	13.316	0.000	15931	0.00500	0.005000
16 4,4'-DDE	13.883	13.883	0.000	15542	0.00500	0.005000
22 Endosulfan II	15.108	15.108	0.000	14178	0.00500	0.005000
24 Endrin aldehyde	15.658	15.658	0.000	11031	0.00500	0.005000
26 Endosulfan sulfate	15.966	15.966	0.000	11236	0.00500	0.005000
27 Endrin ketone	17.525	17.525	0.000	10041	0.00500	0.005000

Data File: \\ppitpa02\chem\gc3.1\2201-E.b\c-A2141.d
Date : 20-MAR-2004 14:30
Client ID:
Sample Info: LOWB,2201-E.b,4-INDB.sub,1,1
Column phase: RTX-50

Instrument: gc3.1
Operator: 021039
Column diameter: 0.53

\\ppitpa02\chem\gc3.1\2201-E.b\c-A2141.d\F-A2141.R04



673 384

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2142.d
 Report Date: 21-Mar-2001 10:55

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2142.d
 Lab Smp Id: MLOWB
 Inj Date : 20-MAR-2001 14:59
 Operator : 010139 Inst ID: gc3.i
 Smp Info : MLOWB, 2201-E.b, , 4-INDB.sub, , 1, 2
 Misc Info : 190-124-8
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 10:55 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 14:59 Cal File: C-A2142.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	10.258	10.258	0.000	22209	0.01000	0.009896
7 beta-BHC	8.975	8.975	0.000	15886	0.01000	0.009623
8 delta-BHC	9.916	9.916	0.000	26183	0.01000	0.009953
12 Heptachlor epoxide	12.458	12.450	0.008	26603	0.01000	0.009744
13 gamma-Chlordane	12.958	12.958	0.000	29414	0.01000	0.009713
14 alpha-Chlordane	13.316	13.316	0.000	30180	0.01000	0.009729
16 4,4'-DDE	13.883	13.883	0.000	30633	0.01000	0.009927
22 Endosulfan II	15.108	15.108	0.000	27347	0.01000	0.009819
24 Endrin aldehyde	15.658	15.658	0.000	21022	0.01000	0.009759
26 Endosulfan sulfate	15.966	15.966	0.000	21807	0.01000	0.009850
27 Endrin ketone	17.525	17.525	0.000	19785	0.01000	0.009926

678

385

Data File: \\ppitp02\chem\gc3.i\2201-E.b\C-A2142.d

Date: 20-MAR-2001 14:59

Client ID:

Sample Info: MLOMB,2201-E.b,4-INDB.sub,1,2

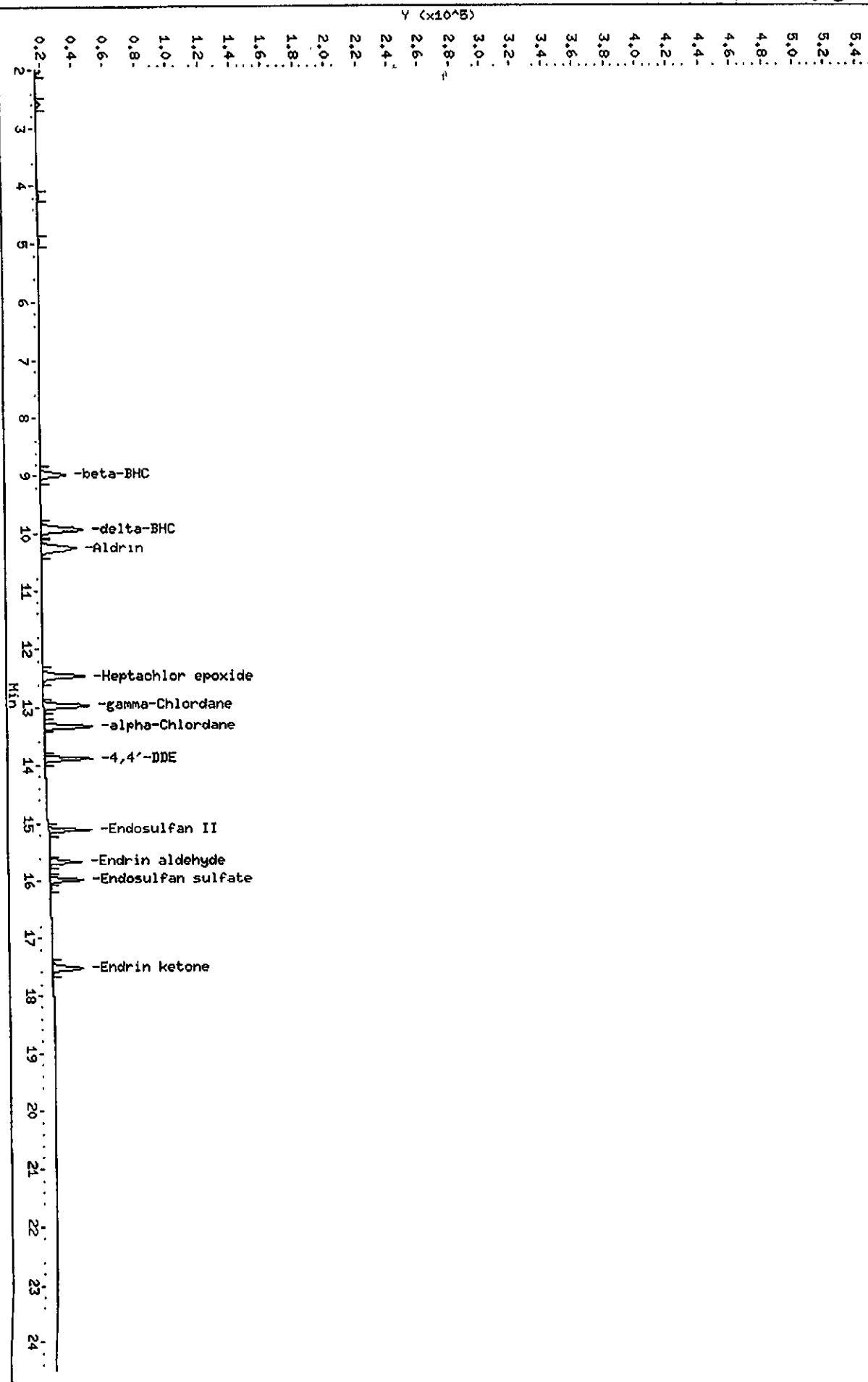
Column phase: RTX-50

Instrument: gc3.i

Operator: 010139

Column diameter: 0.53

\\ppitp02\chem\gc3.i\2201-E.b\C-A2142.d\C-A2142.RAW



678 386

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2143.d
 Report Date: 21-Mar-2001 10:56

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2143.d
 Lab Smp Id: MEDB
 Inj Date : 20-MAR-2001 15:29
 Operator : 010139 Inst ID: gc3.i
 Smp Info : MEDB,2201-E.b,,4-INDB.sub,,1,3
 Misc Info : 190-124-9
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 10:56 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 15:29 Cal File: C-A2143.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
11 Aldrin	10.258	10.258	0.000	54742	0.02500	0.02459
7 beta-BHC	8.975	8.975	0.000	36345	0.02500	0.02293
8 delta-BHC	9.916	9.916	0.000	65604	0.02500	0.02496
12 Heptachlor epoxide	12.450	12.450	0.000	63681	0.02500	0.02386
13 gamma-Chlordane	12.958	12.958	0.000	70560	0.02500	0.02384
14 alpha-Chlordane	13.316	13.316	0.000	71461	0.02500	0.02366
16 4,4'-DDE	13.883	13.883	0.000	76145	0.02500	0.02478
22 Endosulfan II	15.108	15.108	0.000	66758	0.02500	0.02430
24 Endrin aldehyde	15.658	15.658	0.000	50173	0.02500	0.02383
26 Endosulfan sulfate	15.966	15.966	0.000	53992	0.02500	0.02459
27 Endrin ketone	17.525	17.525	0.000	49216	0.02500	0.02479

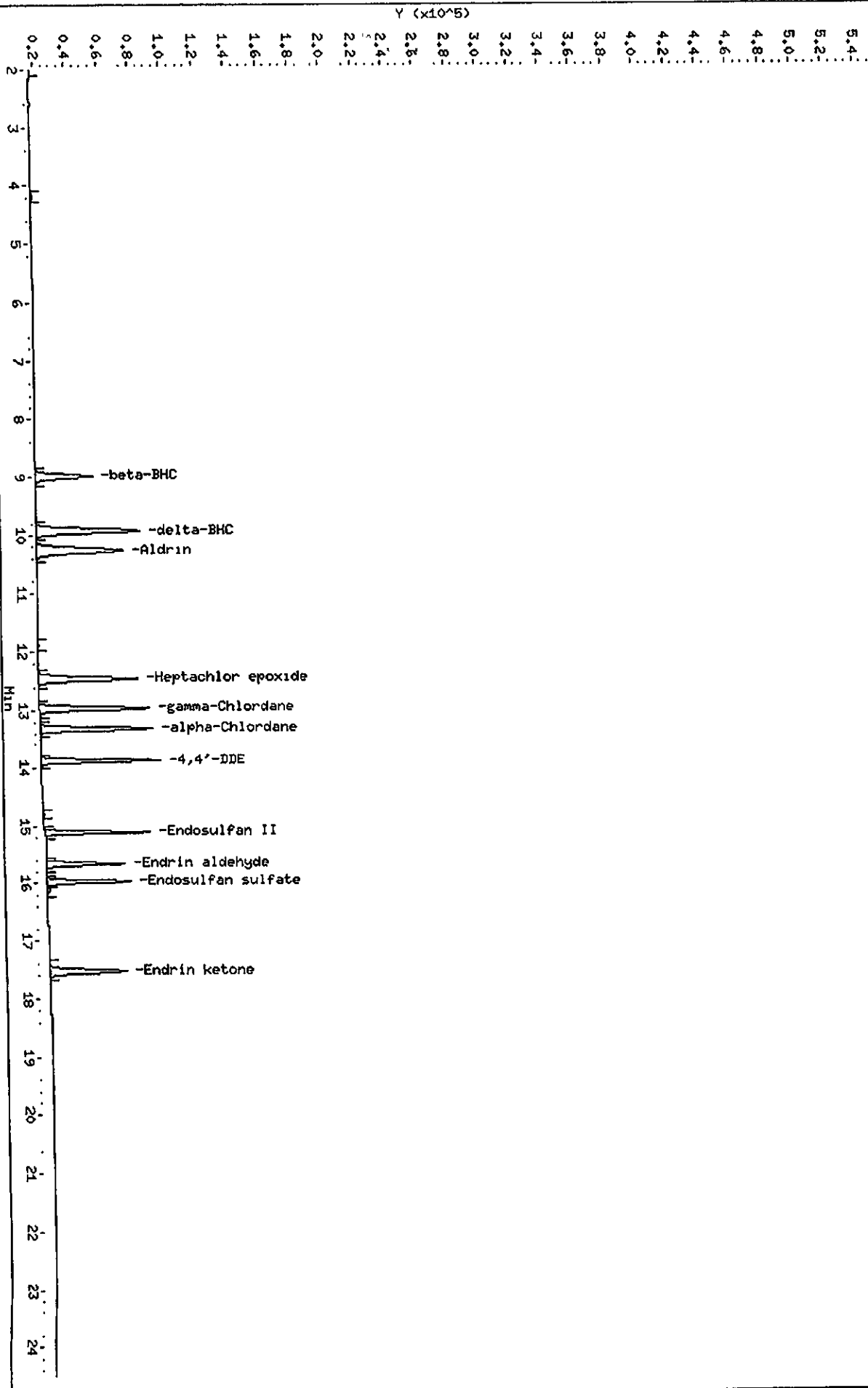
678

387

Data File: \\apitpa02\chem\gc3.1\2201-E.b\C-R2143.d
Date: 20-MAR-2001 15:29
Client ID:
Sample Info: MEDB,2201-E.b,,4-INDB.sub,,1,3
Column phase: RTX-50

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\apitpa02\chem\gc3.1\2201-E.b\C-R2143.d\C-R2143.RAW



673 388

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2144.d
 Report Date: 21-Mar-2001 10:56

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2144.d
 Lab Smp Id: MHIGHB
 Inj Date : 20-MAR-2001 15:59
 Operator : 010139 Inst ID: gc3.i
 Smp Info : MHIGHB, 2201-E.b, , 4-INDB.sub, , 1, 4
 Misc Info : 190-124-10
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 10:56 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 15:59 Cal File: C-A2144.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	10.258	10.258	0.000	106240	0.05000	0.04827
7 beta-BHC	8.975	8.975	0.000	67444	0.05000	0.04419
8 delta-BHC	9.916	9.916	0.000	128384	0.05000	0.04913
12 Heptachlor epoxide	12.450	12.450	0.000	121764	0.05000	0.04664
13 gamma-Chlordane	12.958	12.958	0.000	133785	0.05000	0.04631
14 alpha-Chlordane	13.308	13.316	-0.008	136378	0.05000	0.04627
16 4,4'-DDE	13.875	13.883	-0.008	146951	0.05000	0.04835
22 Endosulfan II	15.108	15.108	0.000	129029	0.05000	0.04769
24 Endrin aldehyde	15.658	15.658	0.000	95650	0.05000	0.04650
26 Endosulfan sulfate	15.966	15.966	0.000	105678	0.05000	0.04858
27 Endrin ketone	17.525	17.525	0.000	95751	0.05000	0.04866

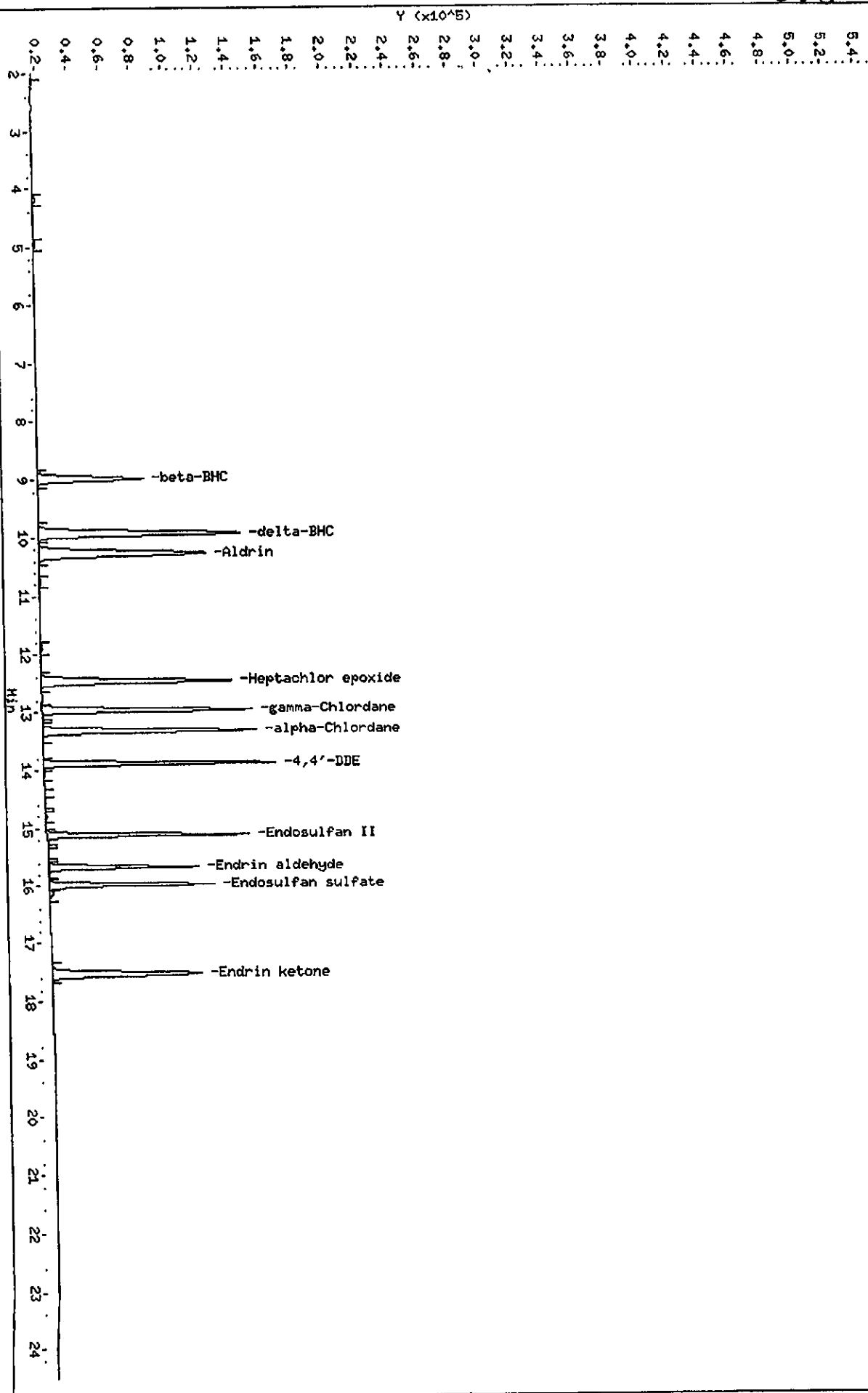
678

389

Data File: \\ppitpa02\chem\gc3.i\2201-E.b\C-A2144.d
Date: 20-MAR-2001 15:59
Client ID:
Sample Info: HICHB, 2201-E.b, 4-INDB, sub, 1,4
Column phase: RTX-50

Instrument: gc3.i
Operator: 010139
Column diameter: 0.53

\\ppitpa02\chem\gc3.i\2201-E.b\C-A2144.d\C-A2144.RAW



678 390

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2145.d
 Report Date: 21-Mar-2001 10:56

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2145.d
 Lab Smp Id: HIGHB
 Inj Date : 20-MAR-2001 16:28
 Operator : 010139 Inst ID: gc3.i
 Smp Info : HIGHB,2201-E.b,,4-INDB.sub,,1,5
 Misc Info : 190-124-11
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 10:56 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 4-INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	10.258	10.258	0.000	192979	0.10000	0.08990
7 beta-BHC	8.975	8.975	0.000	119127	0.10000	0.08164
8 delta-BHC	9.916	9.916	0.000	234295	0.10000	0.09155
12 Heptachlor epoxide	12.450	12.450	0.000	221790	0.10000	0.08759
13 gamma-Chlordane	12.958	12.958	0.000	243500	0.10000	0.08703
14 alpha-Chlordane	13.308	13.316	-0.008	246285	0.10000	0.08640
16 4,4'-DDE	13.875	13.883	-0.008	273465	0.10000	0.09182
22 Endosulfan II	15.108	15.108	0.000	238046	0.10000	0.09016
24 Endrin aldehyde	15.658	15.658	0.000	178864	0.10000	0.08928
26 Endosulfan sulfate	15.966	15.966	0.000	197134	0.10000	0.09236
27 Endrin ketone	17.525	17.525	0.000	179479	0.10000	0.09285

Data File: \\pptps02\chem\gc3.1\2201-E.b\C-A2145.d

Date : 20-MAR-2001 16:28

Client ID:

Sample Info: HIGHB,2201-E.b,4-IMDB,sub,1,5

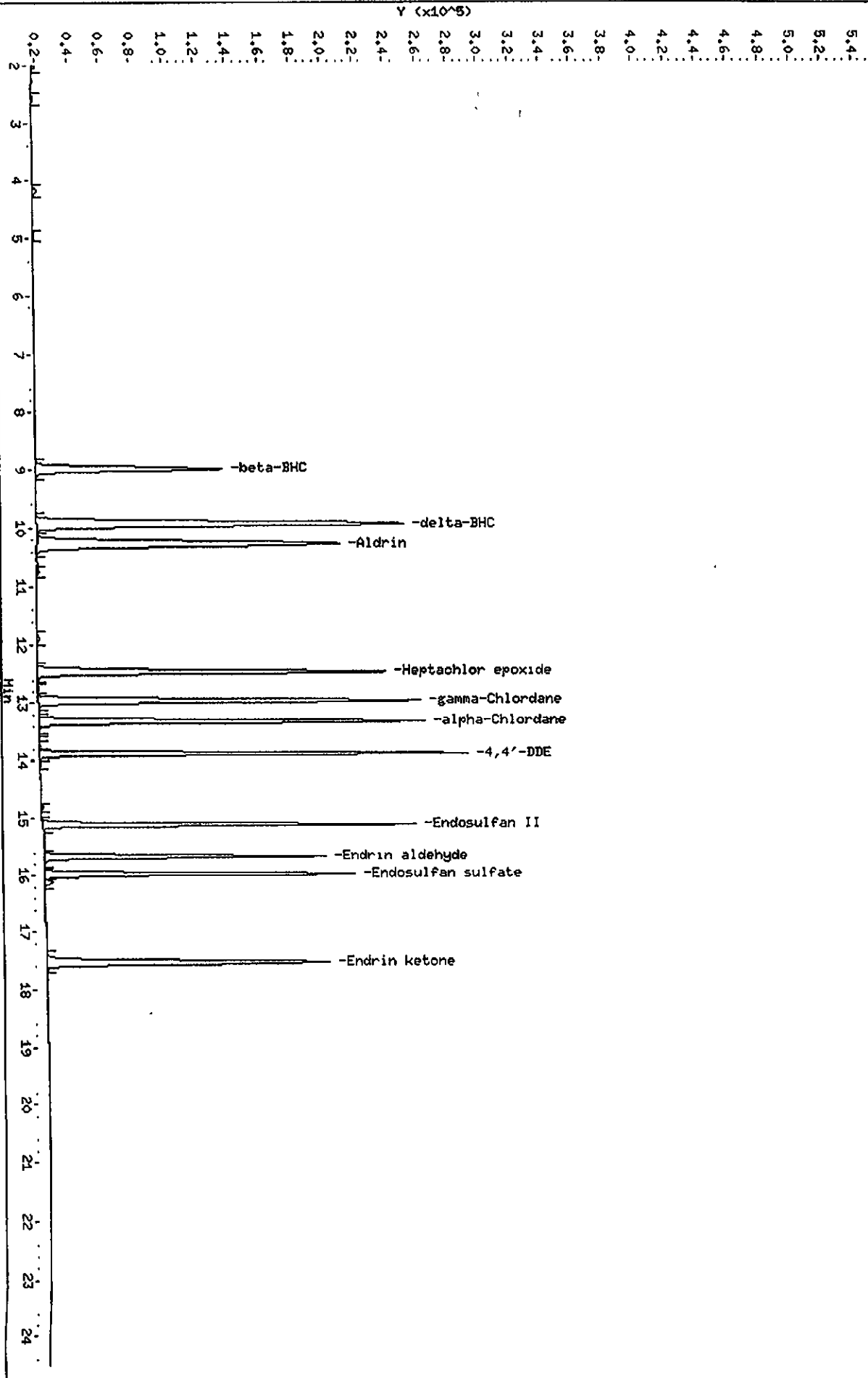
Column phase: RTX-50

Instrument: gc3.1

Operator: 010139

Column diameter: 0.53

\\pptps02\chem\gc3.1\2201-E.b\C-A2145.d/C-A2145.RAW



678 392

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2146.d
 Report Date: 21-Mar-2001 11:16

STL-Pittsburgh

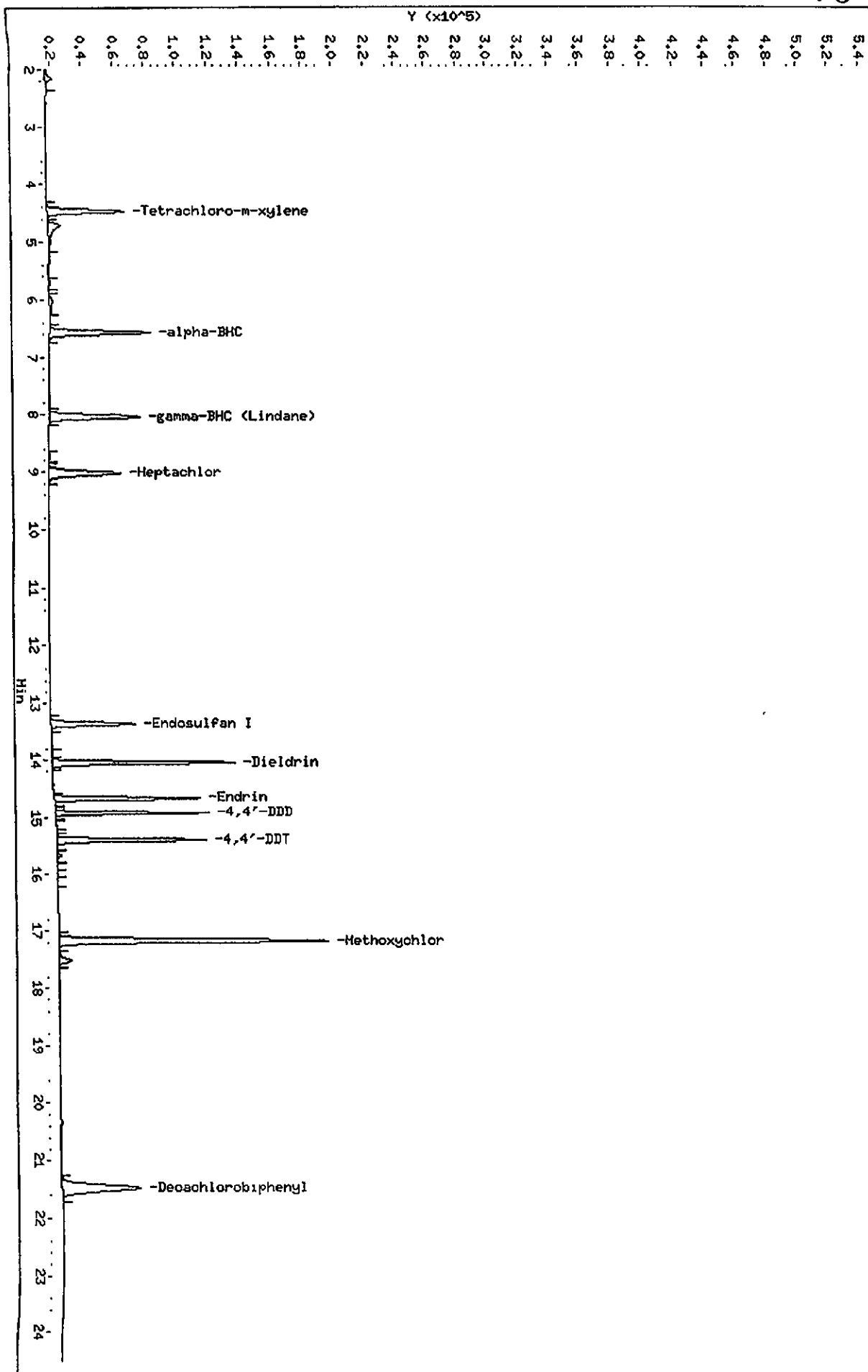
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2146.d
 Lab Smp Id: 2ND A
 Inj Date : 20-MAR-2001 16:58
 Operator : 010139 Inst ID: gc3.i
 Smp Info : 2ND A,2201-E.b,,INDA.sub,,2,3
 Misc Info : 190-125-11
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:12 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDA.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	49397	0.02500	0.01940
5 alpha-BHC	6.575	6.566	0.009	64633	0.02500	0.02062
6 gamma-BHC (Lindane)	8.025	8.025	0.000	58338	0.02500	0.02107
10 Heptachlor	9.025	9.025	0.000	46530	0.02500	0.02100
15 Endosulfan I	13.350	13.350	0.000	53693	0.02500	0.02116
17 Dieldrin	14.041	14.050	-0.009	116830	0.02500	0.04043
20 Endrin	14.658	14.658	0.000	93509	0.02500	0.03682
21 4,4'-DDD	14.916	14.916	0.000	98896	0.02500	0.04159
23 4,4'-DDT	15.391	15.391	0.000	95617	0.02500	0.04026
25 Methoxychlor	17.175	17.175	0.000	172545	0.05000	0.1827
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	50012	0.02500	0.03967

Data File: \\ppitpa02\chem\gc3.1\2201-E.b\C-A2146.d
Date : 20-MAR-2001 16:58
Client ID:
Sample Info: 2ND A,2201-E.b,,IND0.sub,,2,3
Column phase: RTX-50

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\ppitpa02\chem\gc3.1\2201-E.b\C-A2146.d\C-A2146.RAW



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2147.d
 Report Date: 21-Mar-2001 11:16

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2147.d
 Lab Smp Id: 2ND B
 Inj Date : 20-MAR-2001 17:28
 Operator : 010139 Inst ID: gc3.i
 Smp Info : 2ND B,2201-E.b,,INDB.sub,,2,3
 Misc Info : 190-125-14
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:12 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDB.sub
 Target Version: 4.04
 Processing Host: PITPC061

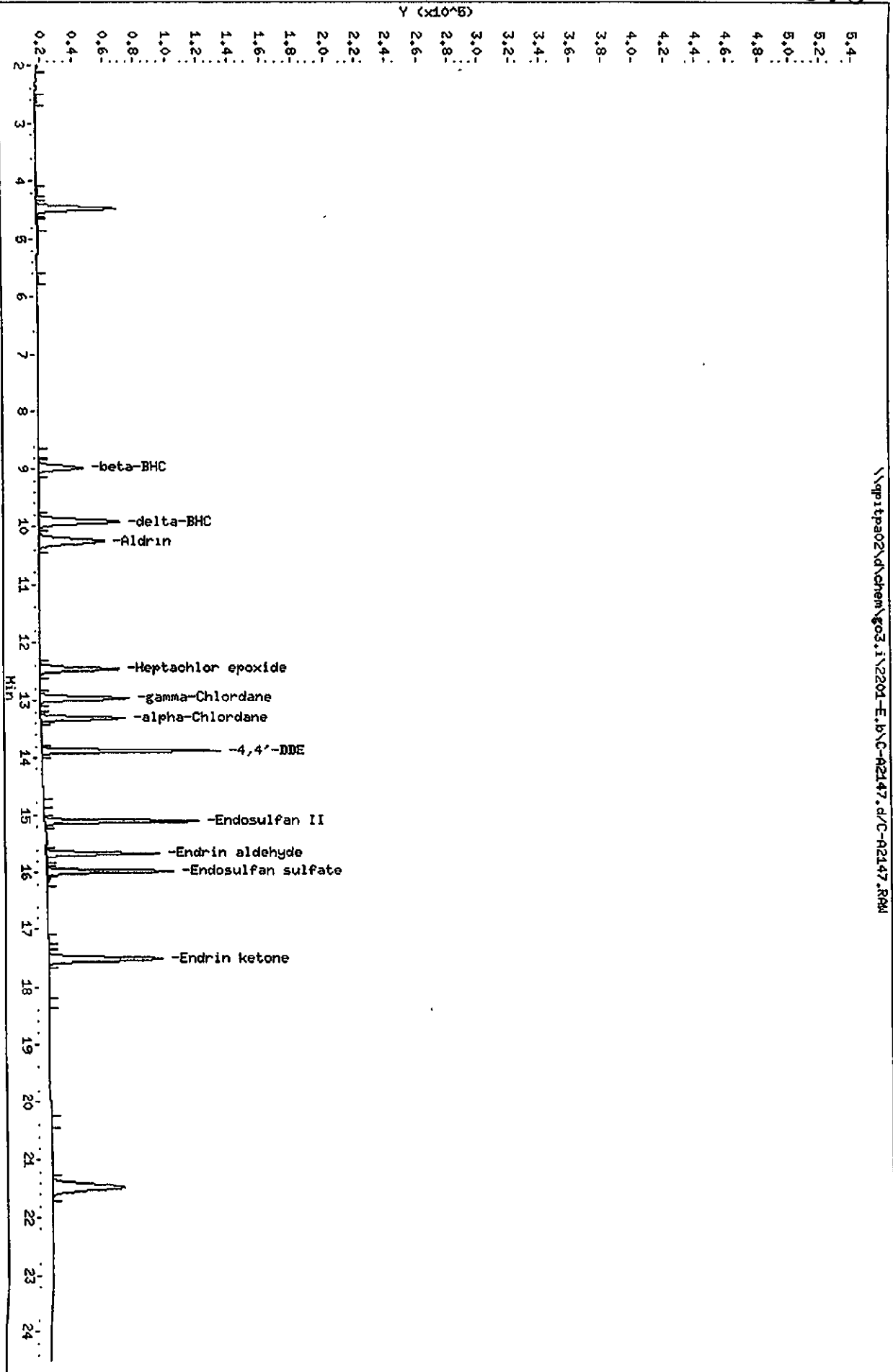
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	10.258	10.258	0.000	41992	0.02500	0.01956
7 beta-BHC	8.975	8.975	0.000	28734	0.02500	0.01969
8 delta-BHC	9.916	9.916	0.000	51847	0.02500	0.02026
12 Heptachlor epoxide	12.450	12.450	0.000	50675	0.02500	0.02001
13 gamma-Chlordane	12.958	12.958	0.000	56564	0.02500	0.02022
14 alpha-Chlordane	13.308	13.316	-0.008	53979	0.02500	0.01894
16 4,4'-DDE	13.875	13.883	-0.008	114198	0.02500	0.03834
22 Endosulfan II	15.108	15.108	0.000	98292	0.02500	0.03723
24 Endrin aldehyde	15.658	15.658	0.000	73269	0.02500	0.03657
26 Endosulfan sulfate	15.966	15.966	0.000	82072	0.02500	0.03845
27 Endrin ketone	17.525	17.525	0.000	73948	0.02500	0.03825

395

Data File: \\pittpa02\chem\gc3.i\2201-E,b,C-A2147.d
Date: 20-HR-2001 17:28
Client ID:
Sample Info: 2ND B, 2201-E,b,, INDB.sub, 2,3
Column phase: RTX-50

Instrument: gc3.i
Operator: 010139
Column diameter: 0.53

678



Data File: \\gpitpa02\d\chem\gc3.i\2201-E.b\C-A2148.d
 Report Date: 21-Mar-2001 11:16

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc3.i\2201-E.b\C-A2148.d
 Lab Smp Id: EVALB
 Inj Date : 20-MAR-2001 17:57
 Operator : 010139 Inst ID: gc3.i
 Smp Info : EVALB,2201-E.b,,EVALBR.sub,,3,1
 Misc Info : 190-102-10
 Comment :
 Method : \\gpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:12 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	52907	0.02078	0.02078(R)
16 4,4'-DDE	13.883	13.883	0.000	557	<0.0	0.0001870
20 Endrin	14.658	14.658	0.000	66857	0.02633	0.02633
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.391	15.391	0.000	63663	0.02680	0.02680
24 Endrin aldehyde	15.666	15.658	0.008	1062	0.00053	0.0005301
27 Endrin ketone	17.525	17.525	0.000	1627	<0.0	0.0008417
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	27878	0.02211	0.02211(R)

QC Flag Legend

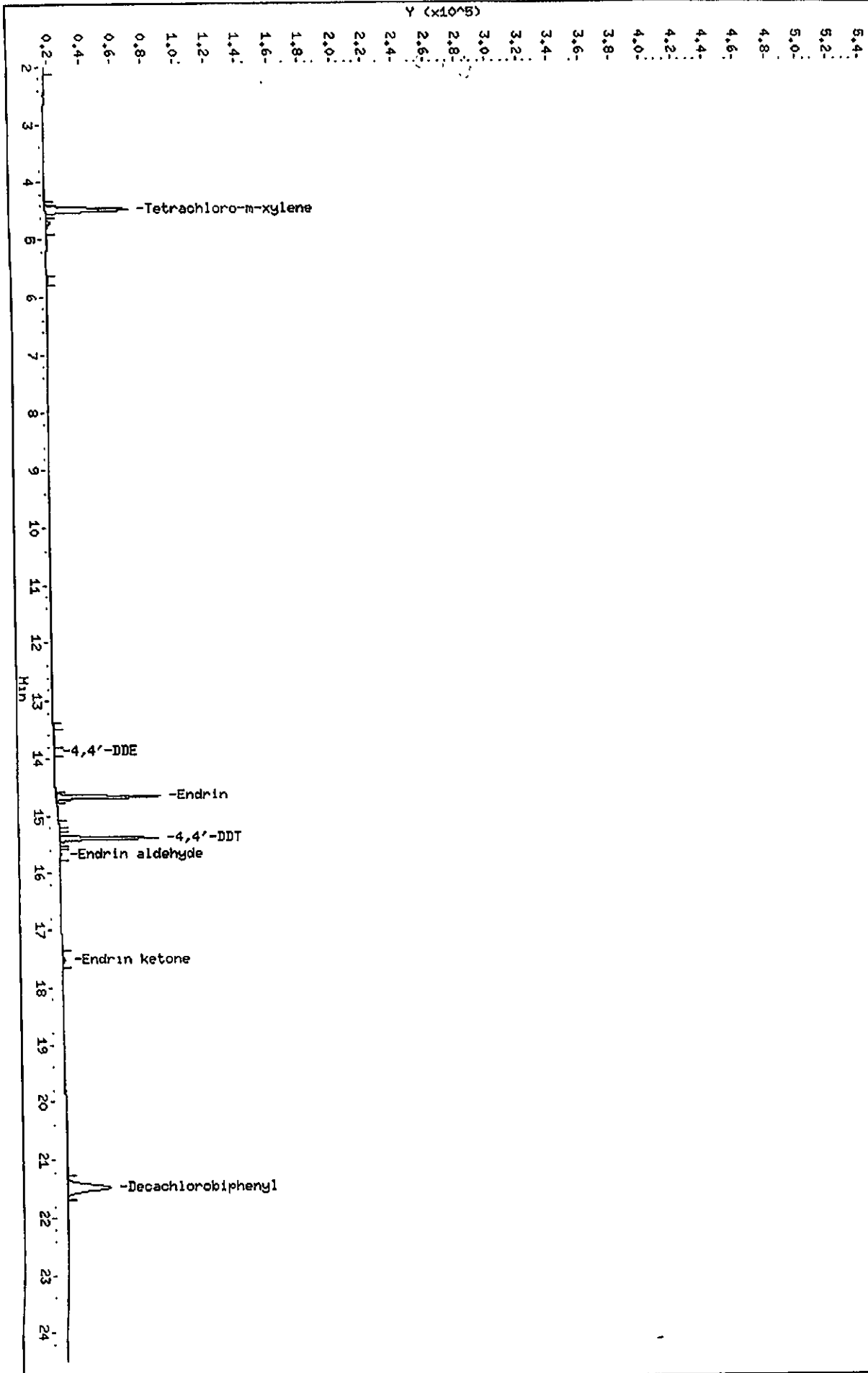
R - Spike/Surrogate failed recovery limits.

DDT 0.97%
 ENDRIN 3.97%

Data File: \\ppitpa02\chem\gc3.i\2201-E.b\c-A2148.d
Date: 20-10-2004 17:57
Client ID:
Sample Info: EVALB,2201-E.b,EVALBR,sub,,3,1
Column phase: RTX-50

Instrument: gc3.i
Operator: 010139
Column diameter: 0.53

\\ppitpa02\chem\gc3.i\2201-E.b\c-A2148.d\c-A2148.RAW



673 393

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2163.d
 Report Date: 21-Mar-2001 11:16

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2163.d
 Lab Smp Id: MEDA
 Inj Date : 21-MAR-2001 01:21
 Operator : 010139 Inst ID: gc3.i
 Smp Info : MEDA,2201-E.b,,3-INDA.sub,,2,3
 Misc Info : 190-124-3
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:12 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 3-INDA.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	4.458	4.458	0.000	65337	0.02500	0.02566
5 alpha-BHC	6.566	6.566	0.000	82126	0.02500	0.02620
6 gamma-BHC (Lindane)	8.025	8.025	0.000	72143	0.02500	0.02606
10 Heptachlor	9.025	9.025	0.000	58696	0.02500	0.02649
15 Endosulfan I	13.350	13.350	0.000	62456	0.02500	0.02461
17 Dieldrin	14.050	14.050	0.000	73890	0.02500	0.02557
20 Endrin	14.666	14.658	0.008	66733	0.02500	0.02628
21 4,4'-DDD	14.916	14.916	0.000	61182	0.02500	0.02573
23 4,4'-DDT	15.391	15.391	0.000	60763	0.02500	0.02558
25 Methoxychlor	17.175	17.175	0.000	49344	0.05000	0.05224
\$ 30 Decachlorobiphenyl	21.475	21.475	0.000	33026	0.02500	0.02620

Data File: \\vpitpa02\chem\gc3.1\2201-E.b\C-A2163.d

Date: 21-MAR-2001 01:21

Client ID:

Sample Info: MED9, 2201-E.b, 3-INDR.sub, 2,3

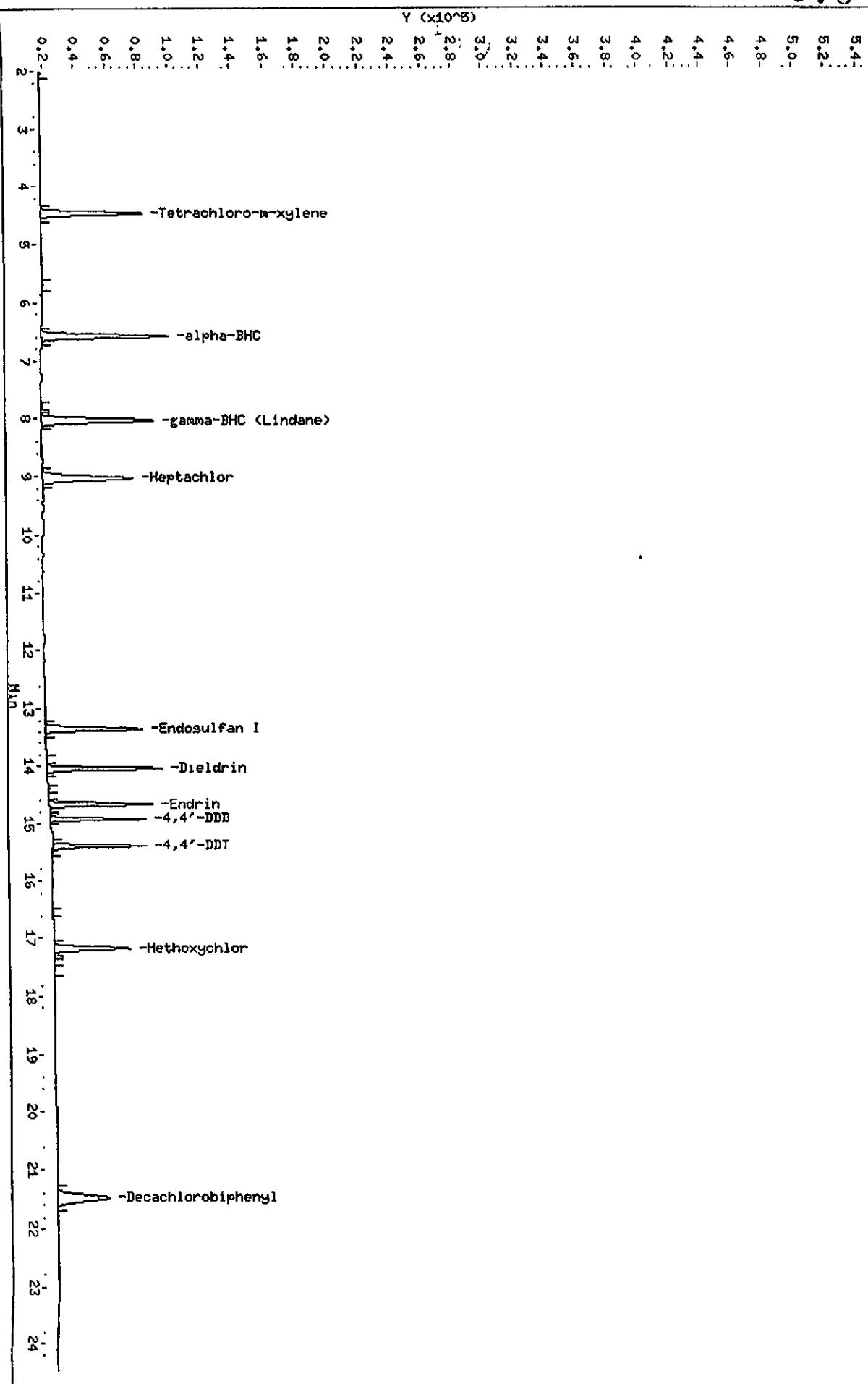
Column phase: RTX-50

Instrument: gc3.1

Operator: 010139

Column diameter: 0.53

\\vpitpa02\chem\gc3.1\2201-E.b\C-A2163.d\C-A2163.RAW



678 490

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2164.d
Report Date: 21-Mar-2001 11:16

STL-Pittsburgh

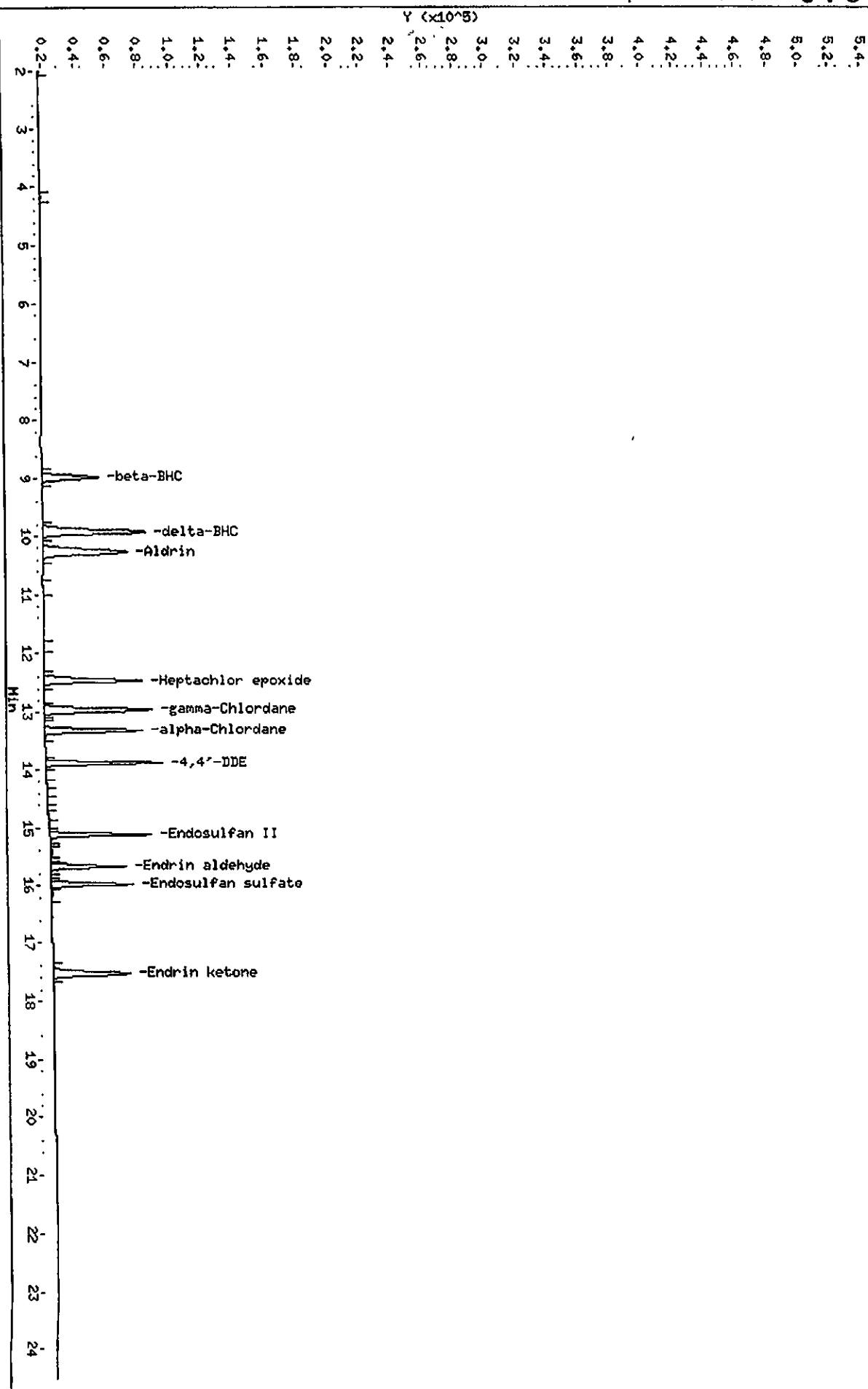
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2164.d
Lab Smp Id: MEDB
Inj Date : 21-MAR-2001 01:51
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDB,2201-E.b,,4-INDB.sub,,2,3
Misc Info : 190-124-9
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Meth Date : 21-Mar-2001 11:12 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
11 Aldrin	10.258	10.258	0.000	53990	0.02500	0.02515
7 beta-BHC	8.975	8.975	0.000	36195	0.02500	0.02480
8 delta-BHC	9.916	9.916	0.000	65892	0.02500	0.02575
12 Heptachlor epoxide	12.458	12.450	0.008	62781	0.02500	0.02479
13 gamma-Chlordane	12.958	12.958	0.000	68898	0.02500	0.02462
14 alpha-Chlordane	13.308	13.316	-0.008	62584	0.02500	0.02195
16 4,4'-DDE	13.883	13.883	0.000	74301	0.02500	0.02495
22 Endosulfan II	15.108	15.108	0.000	65225	0.02500	0.02470
24 Endrin aldehyde	15.658	15.658	0.000	48515	0.02500	0.02422
26 Endosulfan sulfate	15.966	15.966	0.000	52897	0.02500	0.02478
27 Endrin ketone	17.525	17.525	0.000	49475	0.02500	0.02559

Data File: \\ppitp02\achen\gc3.1\2201-E.b\C-A2164.d
Date: 21-MAR-2001 01:51
Client ID:
Sample Info: MEDB,2201-E.b,4-INDB,sub,2,3
Column phase: RTX-60

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\ppitp02\achen\gc3.1\2201-E.b\C-A2164.d\C-A2164.RAW



678 402

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2167.d
 Report Date: 21-Mar-2001 12:54

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2167.d
 Lab Smp Id: EVALB
 Inj Date : 21-MAR-2001 11:04
 Operator : 010139 Inst ID: gc3.i
 Smp Info : EVALB,2201-E.b,,EVALBR.sub,,3,1
 Misc Info : 190-126-7
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 12:51 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
 Als bottle: 1 QC Sample: PEM
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: EVALBR.sub
 Target Version: 4.04
 Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	50740	0.01993	0.01992(R)
16 4,4'-DDE	13.883	13.883	0.000	502	<0.0	0.0001686(M)
20 Endrin	14.666	14.658	0.008	63939	0.02518	0.02518
21 4,4'-DDD	Compound Not Detected					
23 4,4'-DDT	15.400	15.391	0.009	57267	0.02411	0.02411
24 Endrin aldehyde	15.675	15.658	0.017	387	<0.0	0.0001932(M)
27 Endrin ketone	17.541	17.525	0.016	370	<0.0	0.0001914(M)
\$ 30 Decachlorobiphenyl	21.491	21.475	0.016	25957	0.02059	0.02059(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M - Compound response manually integrated.

DDT 0.9070
 ENDRI 1.27-

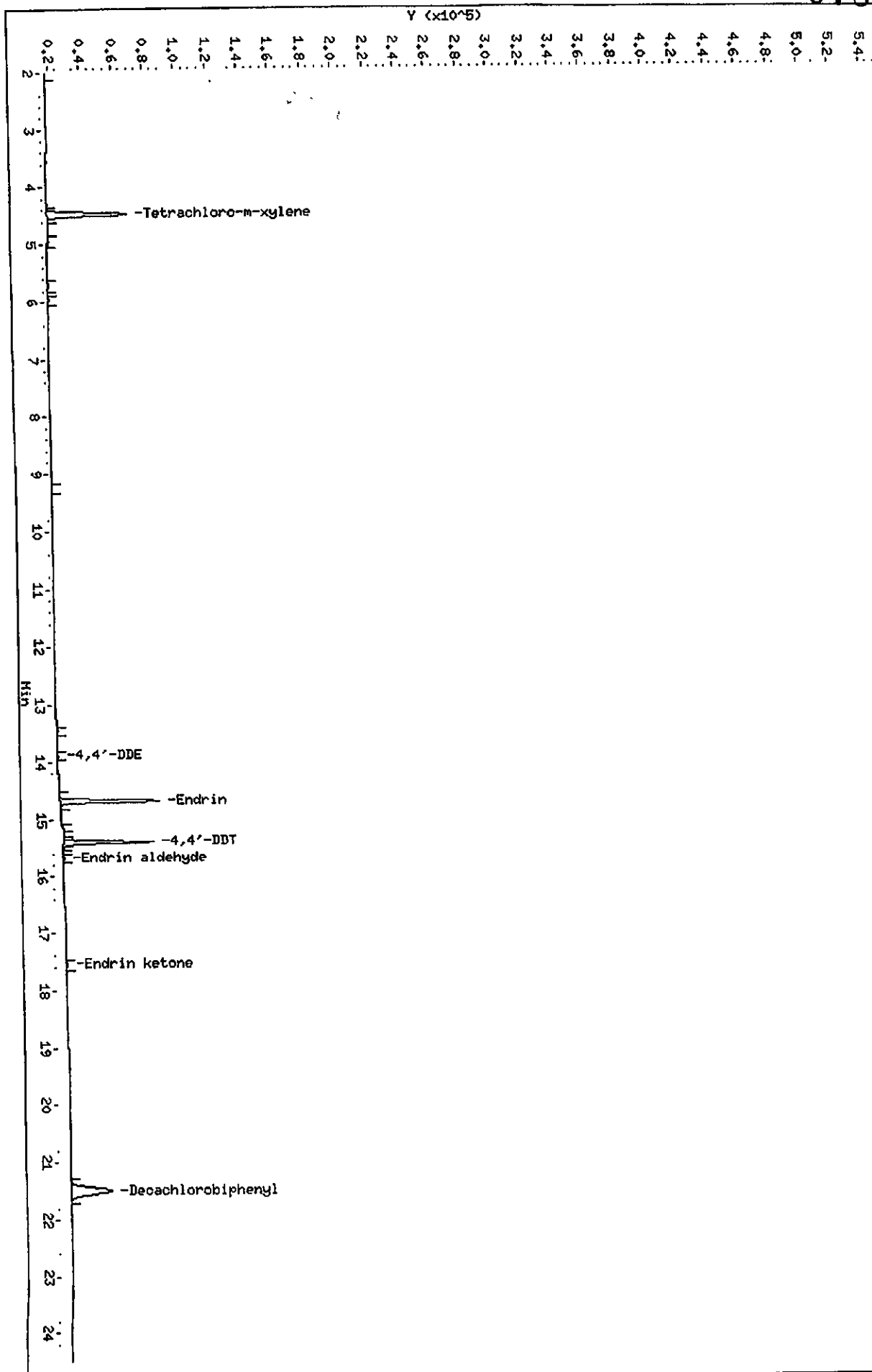
678

493

Data File: \\pp1tpa02\chem\gc3.i\2201-E.b\c-A2167.d
Date: 21-MAR-2001 11:04
Client ID:
Sample Info: EVALB,2201-E.b,EVALBR,sub,3,1
Column phase: RTX-50

Instrument: gc3.i
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc3.i\2201-E.b\c-A2167.d/C-A2167.RAW



678 404

Data File Name C-A2167.d

Inj Date and Time. 21-MAR-2001 11.04

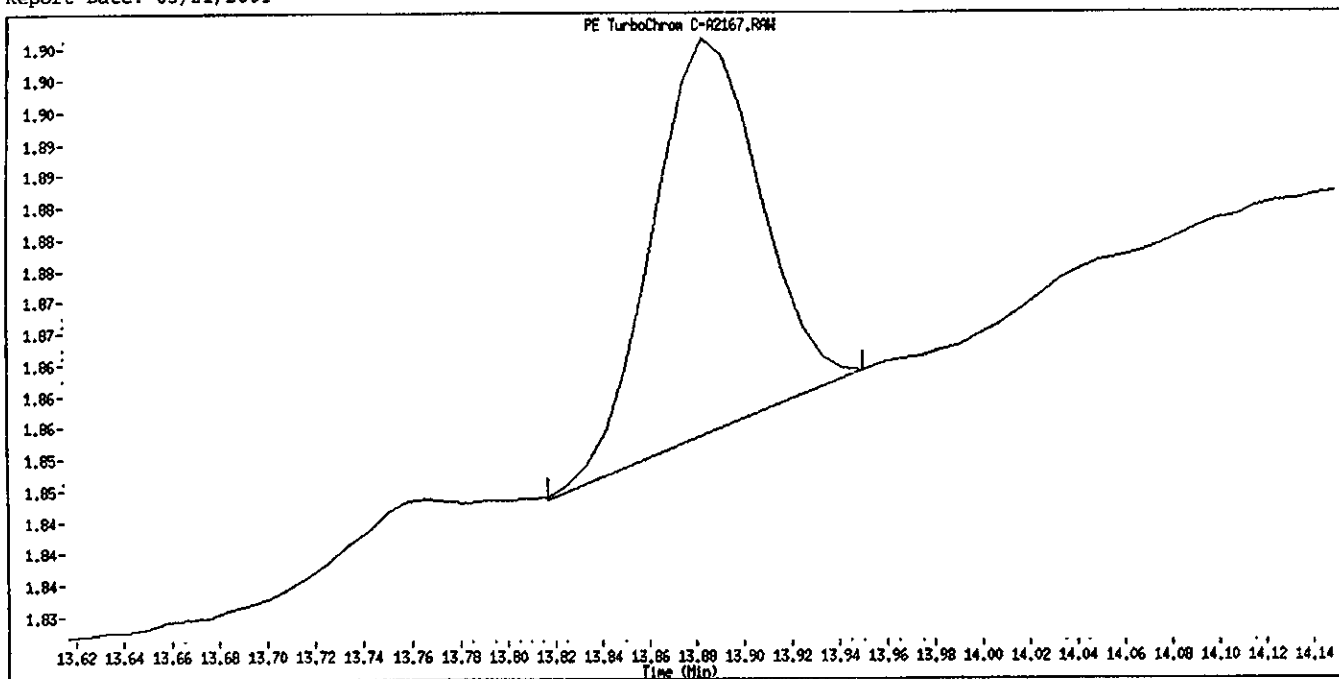
Instrument ID: gc3.1

Client ID:

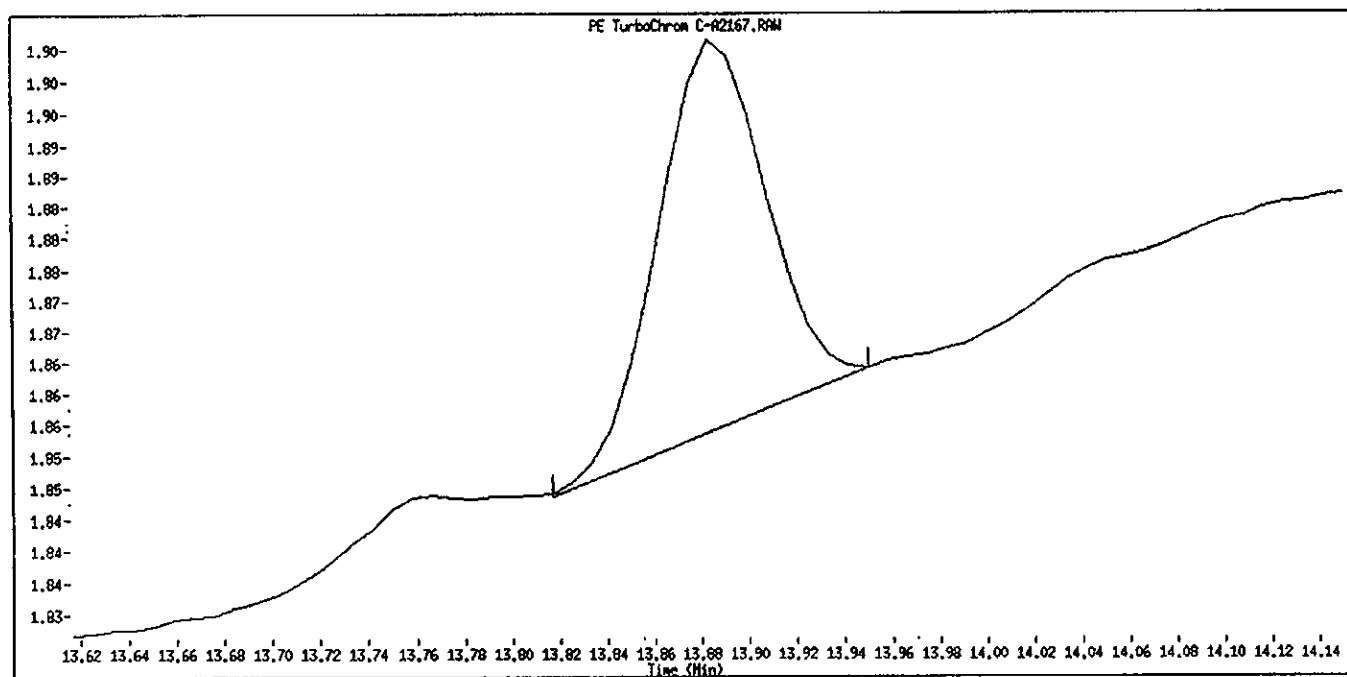
Compound Name: 4,4'-DDE

CAS #: 72-55-9

Report Date: 03/21/2001



Original Integration



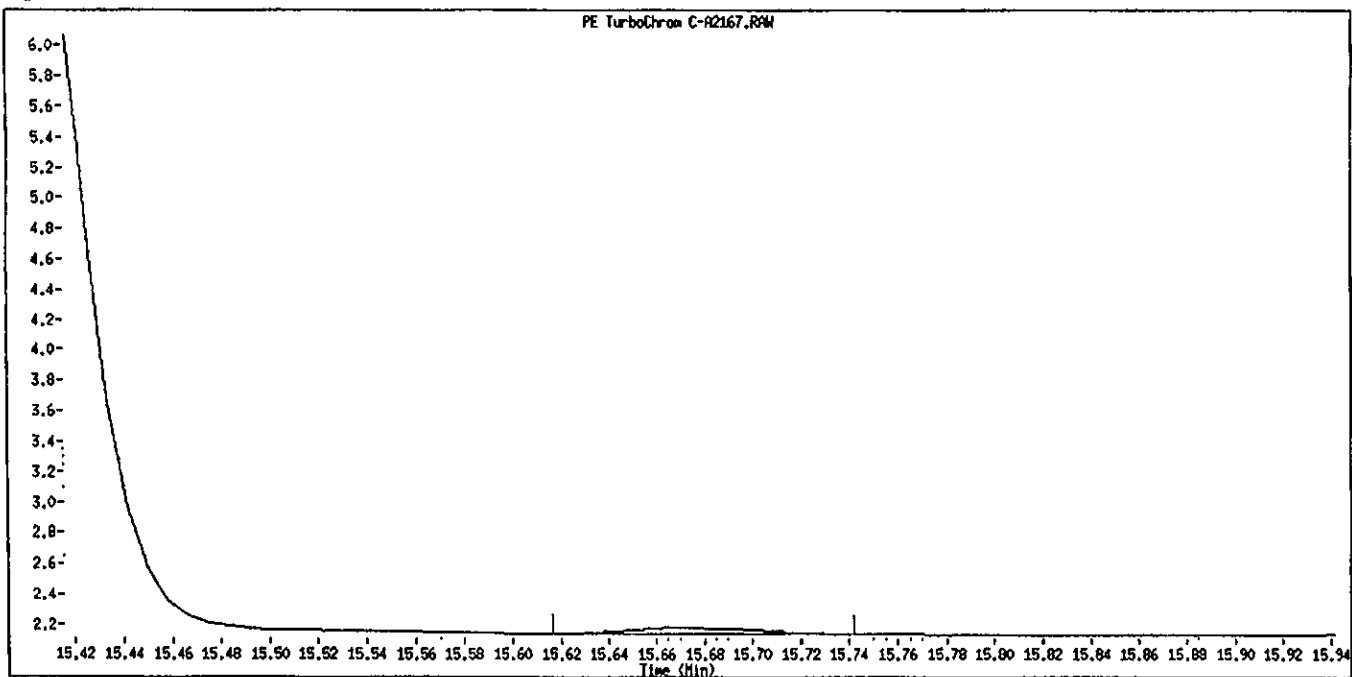
Manual Integration

Manually Integrated By: EppingerD

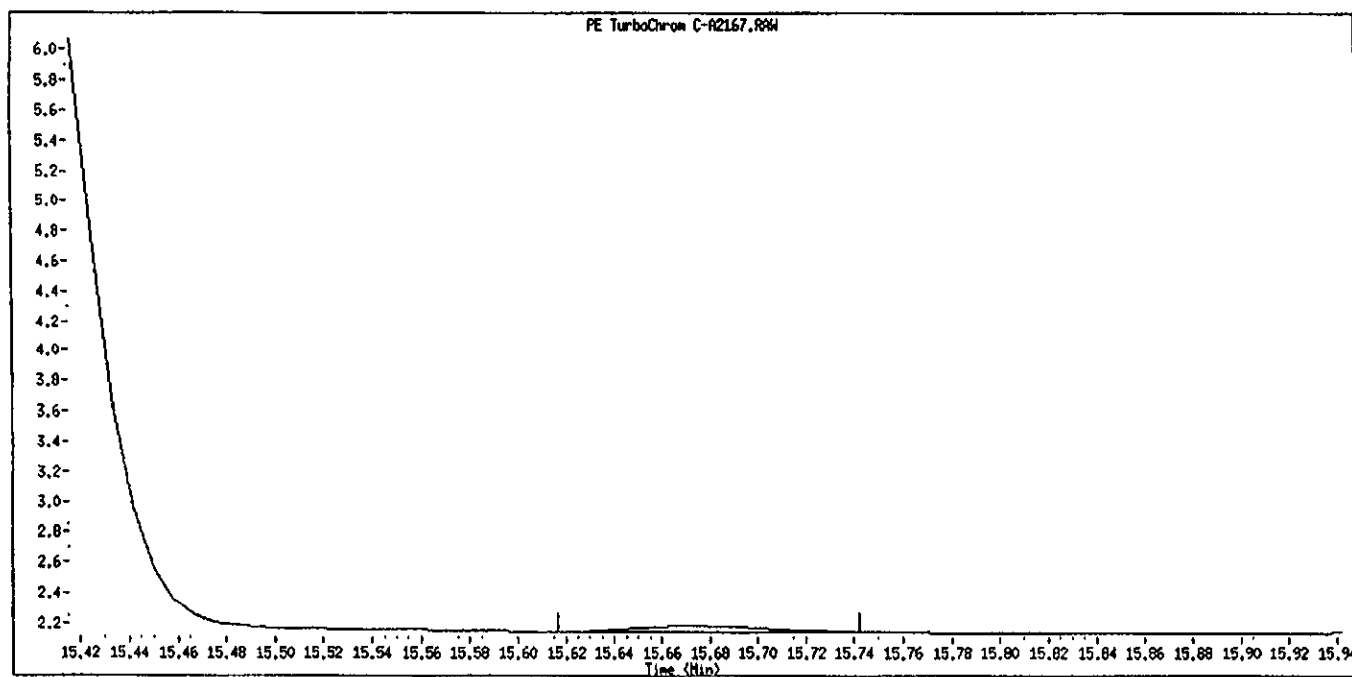
Manual Integration Reason Peak Not Found

Data File Name C-A2167.d
Inj Date and Time 21-MAR-2001 11:04
Instrument ID: gc3 1
Client ID.
Compound Name Endrin aldehyde
CAS #: 7421-93-4
Report Date: 03/21/2001

678 405



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason: Peak Not Found

678 406

Data File Name: C-A2167.d

Inj Date and Time 21-MAR-2001 11:04

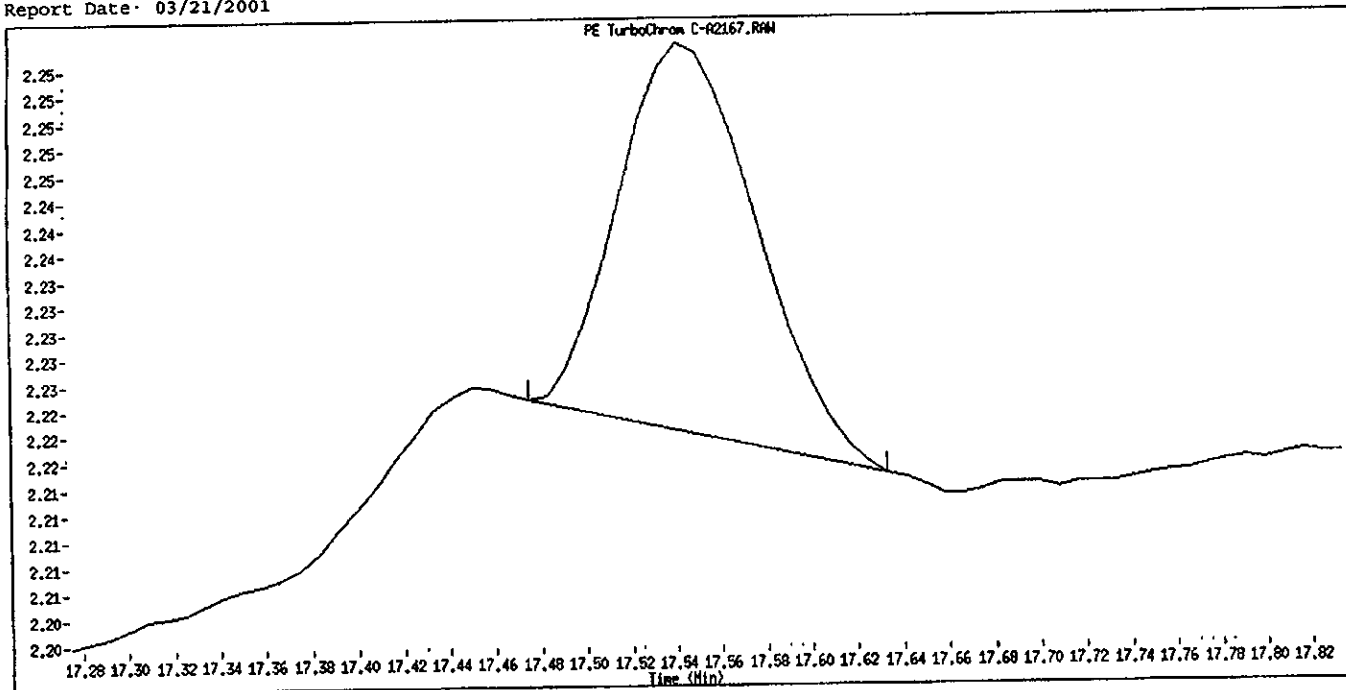
Instrument ID: gc3 1

Client ID:

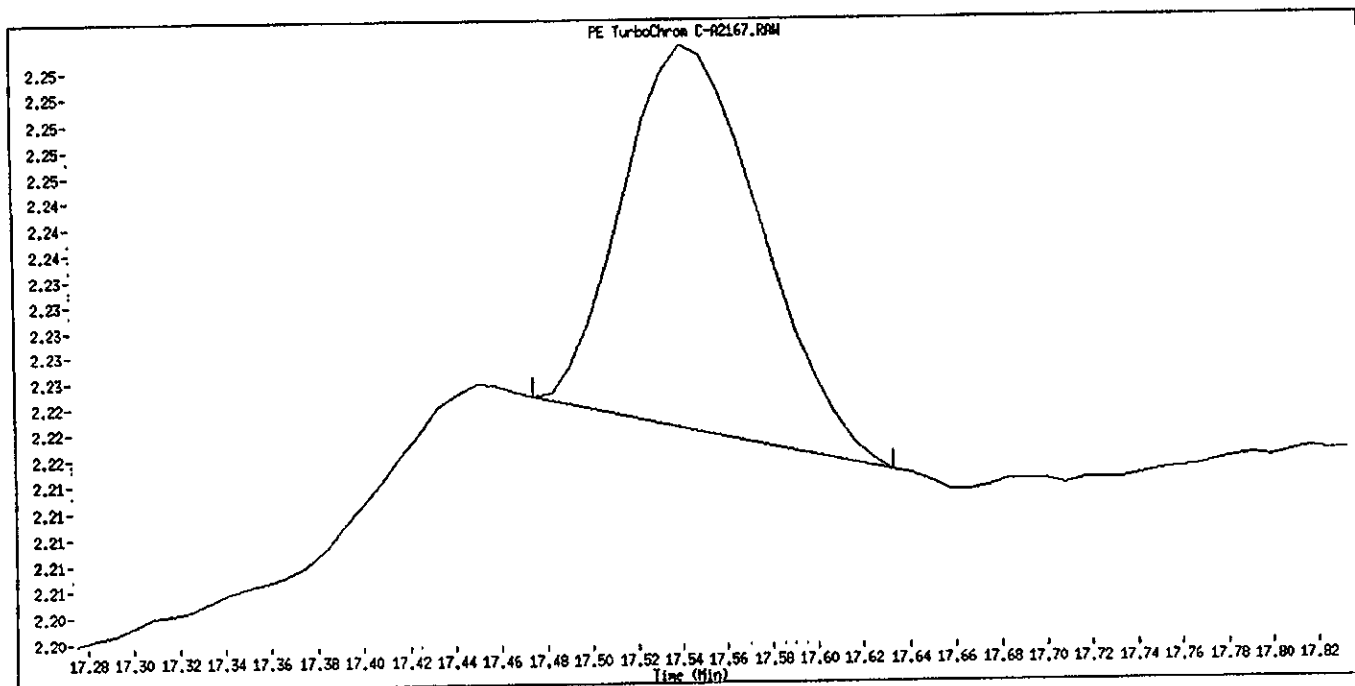
Compound Name: Endrin ketone

CAS # 53494-70-5

Report Date: 03/21/2001



Original Integration



Manual Integration

Manually Integrated By EppingerD

Manual Integration Reason: Peak Not Found

STL-Pittsburgh

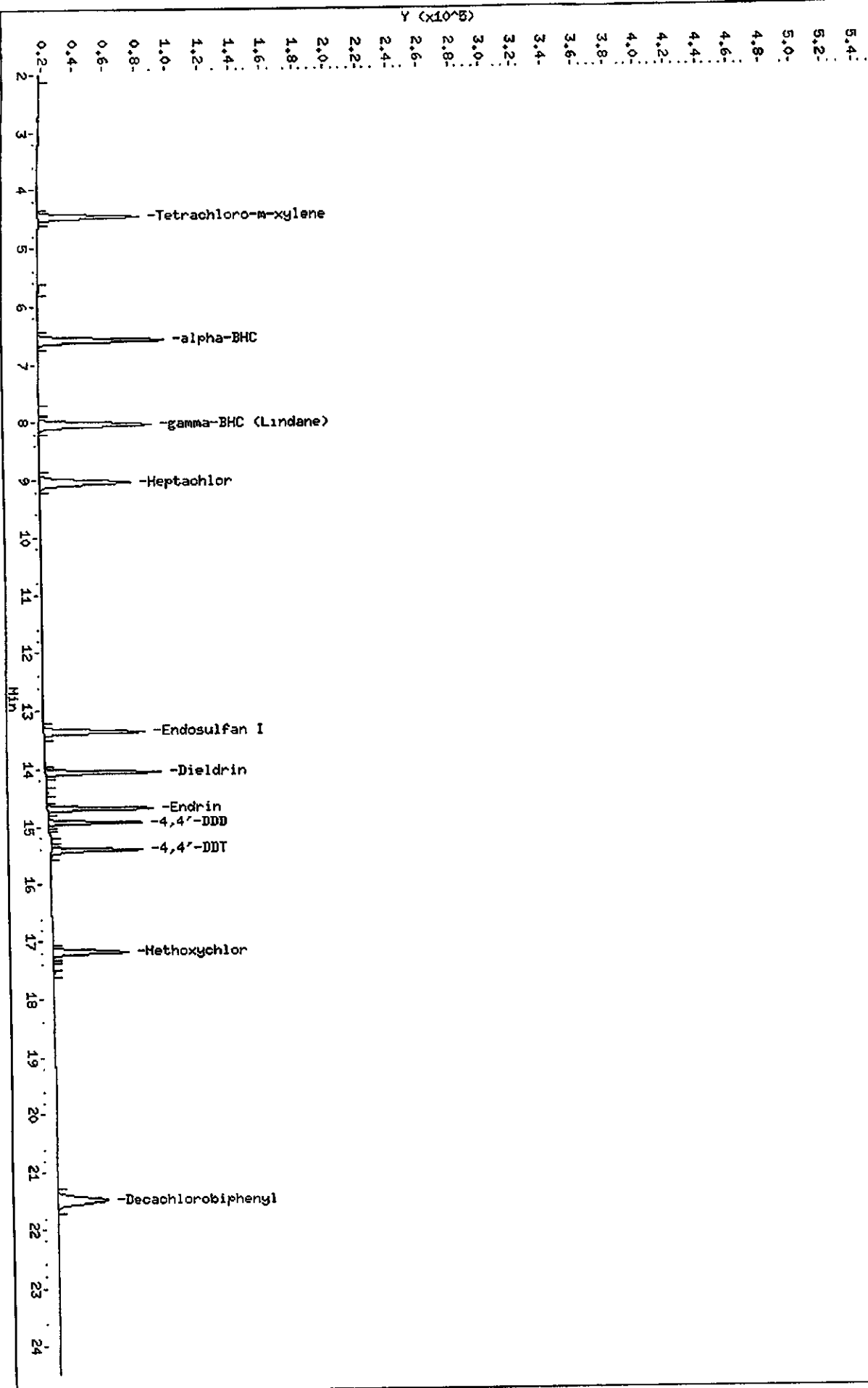
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2168.d
Lab Smp Id: MEDA
Inj Date : 21-MAR-2001 11:33
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDA,2201-E.b,,3-INDA.sub,,2,3
Misc Info : 190-124-3
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Meth Date : 21-Mar-2001 12:51 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	64395	0.02500	0.02529
5 alpha-BHC	6.575	6.566	0.009	80637	0.02500	0.02572
6 gamma-BHC (Lindane)	8.033	8.025	0.008	71549	0.02500	0.02584
10 Heptachlor	9.033	9.025	0.008	57424	0.02500	0.02592
15 Endosulfan I	13.350	13.350	0.000	64657	0.02500	0.02548
17 Dieldrin	14.050	14.050	0.000	73805	0.02500	0.02554
20 Endrin	14.666	14.658	0.008	67210	0.02500	0.02647
21 4,4'-DDD	14.925	14.916	0.009	59501	0.02500	0.02502
23 4,4'-DDT	15.400	15.391	0.009	58811	0.02500	0.02476
25 Methoxychlor	17.183	17.175	0.008	47988	0.05000	0.05080
\$ 30 Decachlorobiphenyl	21.491	21.475	0.016	32464	0.02500	0.02575

Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\c-A2168.d
Date: 21-MAR-2001 11:33
Client ID:
Sample Info: HEDM, 2201-E.b, 3-INDM, sub, 2,3
Column phase: RTX-50

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc3.1\2201-E.b\c-A2168.d\c-A2168.RAW



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2169.d
Report Date: 21-Mar-2001 12:54

678 409

STL-Pittsburgh

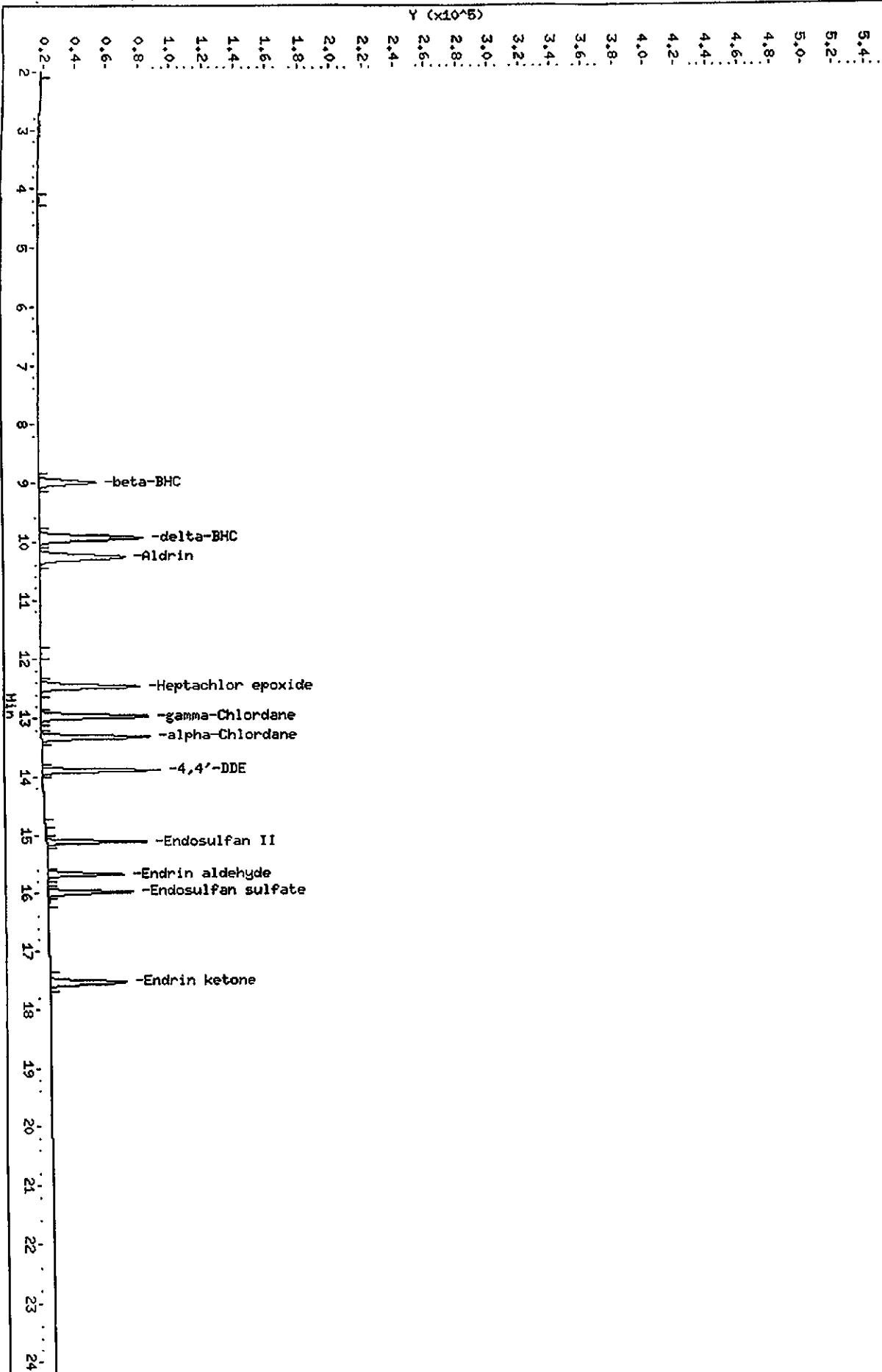
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2169.d
Lab Smp Id: MEDB
Inj Date : 21-MAR-2001 12:03
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDB,2201-E.b,,4-INDB.sub,,2,3
Misc Info : 190-124-9
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Meth Date : 21-Mar-2001 12:51 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	10.266	10.258	0.008	53489	0.02500	0.02492
7 beta-BHC	8.983	8.975	0.008	35642	0.02500	0.02443
8 delta-BHC	9.925	9.916	0.009	65139	0.02500	0.02545
12 Heptachlor epoxide	12.458	12.450	0.008	62115	0.02500	0.02453
13 gamma-Chlordane	12.966	12.958	0.008	67792	0.02500	0.02423
14 alpha-Chlordane	13.316	13.316	0.000	68428	0.02500	0.02400
16 4,4'-DDE	13.883	13.883	0.000	74218	0.02500	0.02492
22 Endosulfan II	15.116	15.108	0.008	63368	0.02500	0.02400
24 Endrin aldehyde	15.666	15.658	0.008	48288	0.02500	0.02410
26 Endosulfan sulfate	15.975	15.966	0.009	53513	0.02500	0.02507
27 Endrin ketone	17.533	17.525	0.008	48567	0.02500	0.02512

Data File: \\apitpa02\volchem\gc3.1\2201-E.b\C-A2169.d
Date: 21-MAR-2001 12:03
Client ID:
Sample Info: MEDB,2201-E.b,,4-IMDB,sub,,2,3
Column phase: RTX-B0

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\apitpa02\volchem\gc3.1\2201-E.b\C-A2169.d\C-A2169.RAW



Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2172.d
Report Date: 21-Mar-2001 15:30

678 411

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2172.d
Lab Smp Id: MEDA
Inj Date : 21-MAR-2001 13:32
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDA,2201-E.b,,3-INDA.sub,,2,3
Misc Info : 190-124-3
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Meth Date : 21-Mar-2001 15:25 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 3-INDA.sub
Target Version: 4.04
Processing Host: PITPC061

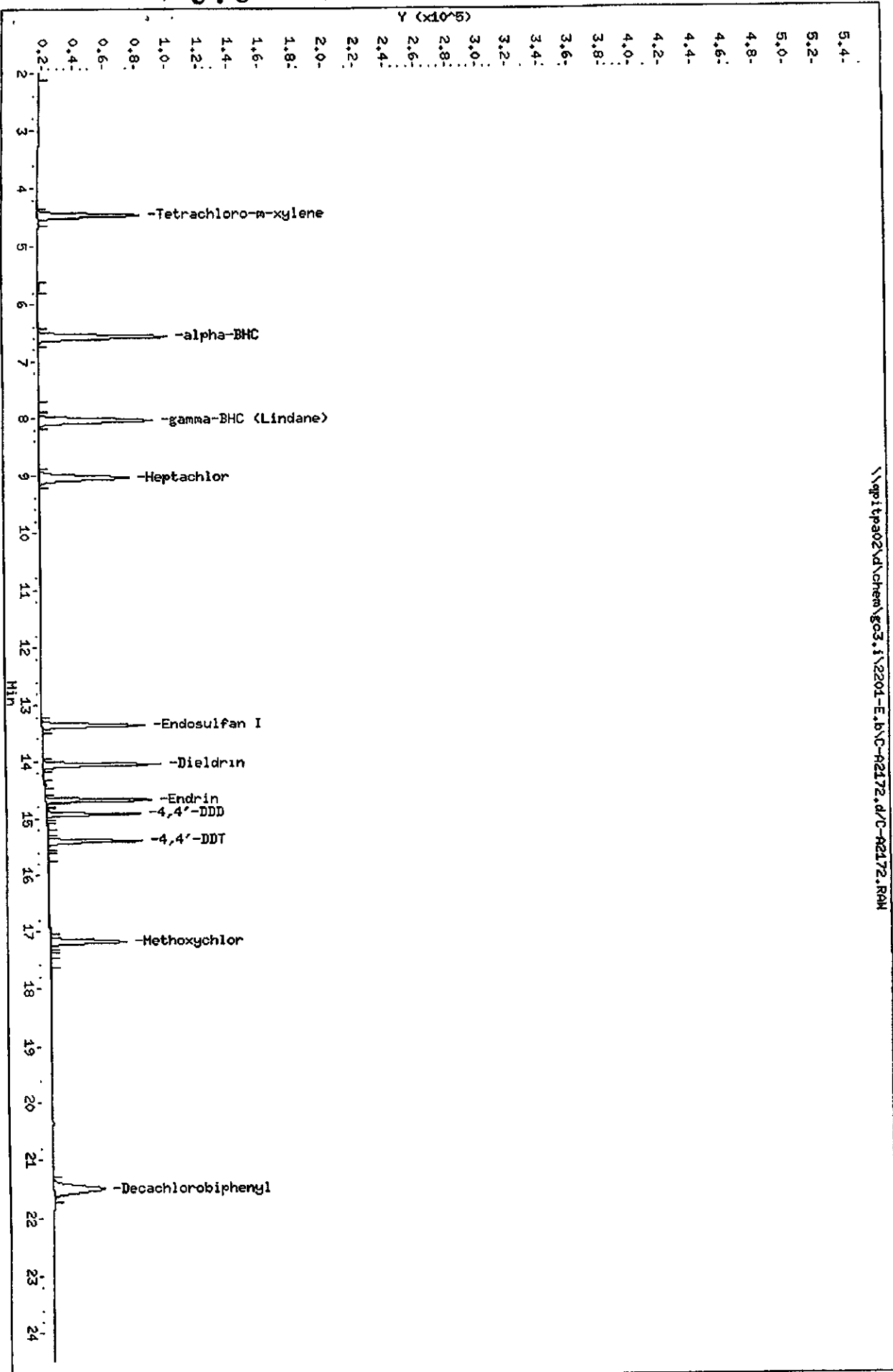
AMOUNTS						
Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	4.466	4.458	0.008	65709	0.02500	0.02580
5 alpha-BHC	6.575	6.566	0.009	82826	0.02500	0.02642
6 gamma-BHC (Lindane)	8.033	8.025	0.008	72901	0.02500	0.02633
10 Heptachlor	9.033	9.025	0.008	58277	0.02500	0.02630
15 Endosulfan I	13.350	13.350	0.000	66532	0.02500	0.02621
17 Dieldrin	14.050	14.050	0.000	76023	0.02500	0.02631
20 Endrin	14.666	14.658	0.008	68527	0.02500	0.02699
21 4,4'-DDD	14.916	14.916	0.000	60520	0.02500	0.02545
23 4,4'-DDT	15.400	15.391	0.009	60395	0.02500	0.02543
25 Methoxychlor	17.183	17.175	0.008	49668	0.05000	0.05258
\$ 30 Decachlorobiphenyl	21.491	21.475	0.016	33034	0.02500	0.02620

673 412

Data File: \\ppitpa02\chem\gc3.1\2201-E.b\C-A2172.d
 Date: 21-MAR-2001 13:32
 Client ID:
 Sample Info: HEDR, 2201-E.b, 3-INDR, sub, 2,3
 Column phase: RTX-50

Instrument: gc3.1
 Operator: Q10139
 Column diameter: 0.53

\\ppitpa02\chem\gc3.1\2201-E.b\C-A2172.d\C-A2172.RAW



STL-Pittsburgh

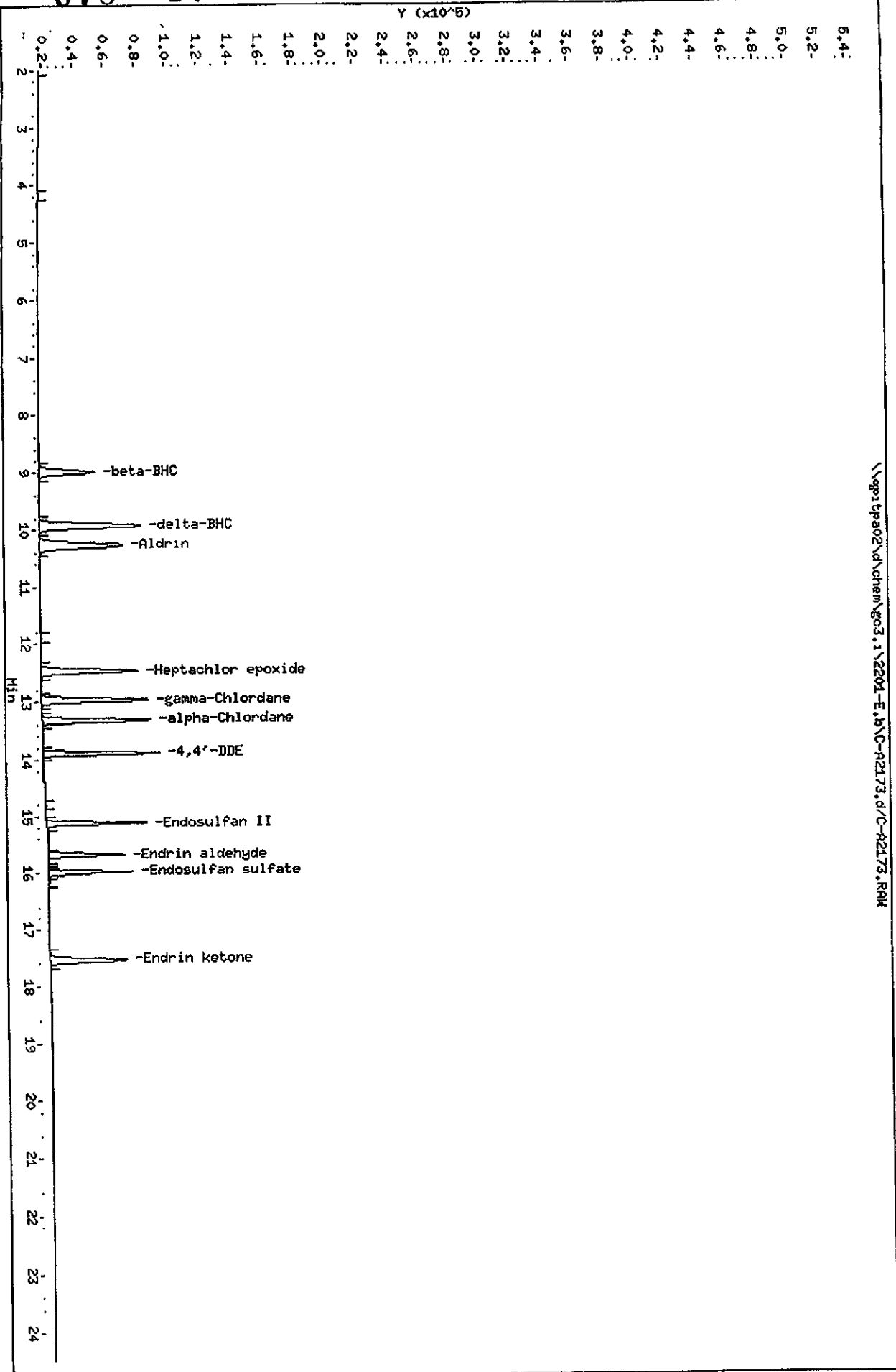
Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2173.d
Lab Smp Id: MEDB
Inj Date : 21-MAR-2001 14:02
Operator : 010139 Inst ID: gc3.i
Smp Info : MEDB,2201-E.b,,4-INDB.sub,,2,3
Misc Info : 190-124-9
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Meth Date : 21-Mar-2001 15:25 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 4-INDB.sub
Target Version: 4.04
Processing Host: PITPC061

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	**	*****	*****	*****	*****	*****
11 Aldrin	10.266	10.258	0.008	53823	0.02500	0.02507
7 beta-BHC	8.983	8.975	0.008	35966	0.02500	0.02465
8 delta-BHC	9.925	9.916	0.009	65304	0.02500	0.02552
12 Heptachlor epoxide	12.458	12.450	0.008	62826	0.02500	0.02481
13 gamma-Chlordane	12.966	12.958	0.008	68273	0.02500	0.02440
14 alpha-Chlordane	13.316	13.316	0.000	69732	0.02500	0.02446
16 4,4'-DDE	13.883	13.883	0.000	75419	0.02500	0.02532
22 Endosulfan II	15.116	15.108	0.008	64166	0.02500	0.02430
24 Endrin aldehyde	15.666	15.658	0.008	48914	0.02500	0.02442
26 Endosulfan sulfate	15.975	15.966	0.009	54497	0.02500	0.02553
27 Endrin ketone	17.533	17.525	0.008	49377	0.02500	0.02554

678 414

Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\C-R2173.d
 Date: 21-MAR-2001 14:02
 Client ID:
 Sample Info: MEDB,2201-E.b,,4-INDB,sub,,2,3
 Column phase: RTX-50

Instrument: gc3.1
 Operator: 010139
 Column diameter: 0.53



678 415

PESTICIDE
QC DATA

678 416

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

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

Lab Sample ID: C1C160000 434

Sample WT/Vol: 1000 / mL
Work Order: DXJT71AA
Dilution factor: 1
Moisture %: NA

Date Received: 03/15/01
Date Extracted: 03/16/01
Date Analyzed: 03/20/01

QC Batch: 1075434

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: \\gpitpa02\d\chem\gc3.i\2201-E.b\C-B2150.d
Report Date: 21-Mar-2001 10:30

678 417

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc3.i\2201-E.b\C-B2150.d
Lab Smp Id: DXJT71AA Client Smp ID: PBLK5434
Inj Date : 20-MAR-2001 18:56
Operator : 010139 Inst ID: gc3.i
Smp Info : DXJT71AA,2201-E.b,,PEST.sub,,3,
Misc Info : 150304BLK
Comment :
Method : \\gpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
Meth Date : 21-Mar-2001 10:07 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC061

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	4.233	4.225	0.008	75939	0.01630	0.1630
5 alpha-BHC				Compound Not Detected.		
6 gamma-BHC (Lindane)				Compound Not Detected.		
9 Chlordane				Compound Not Detected.		
10 Heptachlor				Compound Not Detected.		
11 Aldrin				Compound Not Detected.		
7 beta-BHC				Compound Not Detected.		
8 delta-BHC				Compound Not Detected.		
12 Heptachlor epoxide				Compound Not Detected.		
15 Endosulfan I				Compound Not Detected.		
13 gamma-Chlordane				Compound Not Detected.		
14 alpha-Chlordane				Compound Not Detected.		
16 4,4'-DDE				Compound Not Detected.		
17 Dieldrin				Compound Not Detected.		
20 Endrin				Compound Not Detected.		

678 418

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2150.d
Report Date: 21-Mar-2001 10:30

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
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.		
25 Methoxychlor				Compound Not Detected		
26 Endosulfan sulfate				Compound Not Detected		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	19.533	19.533	0.000	34694	0.01854	0.1854

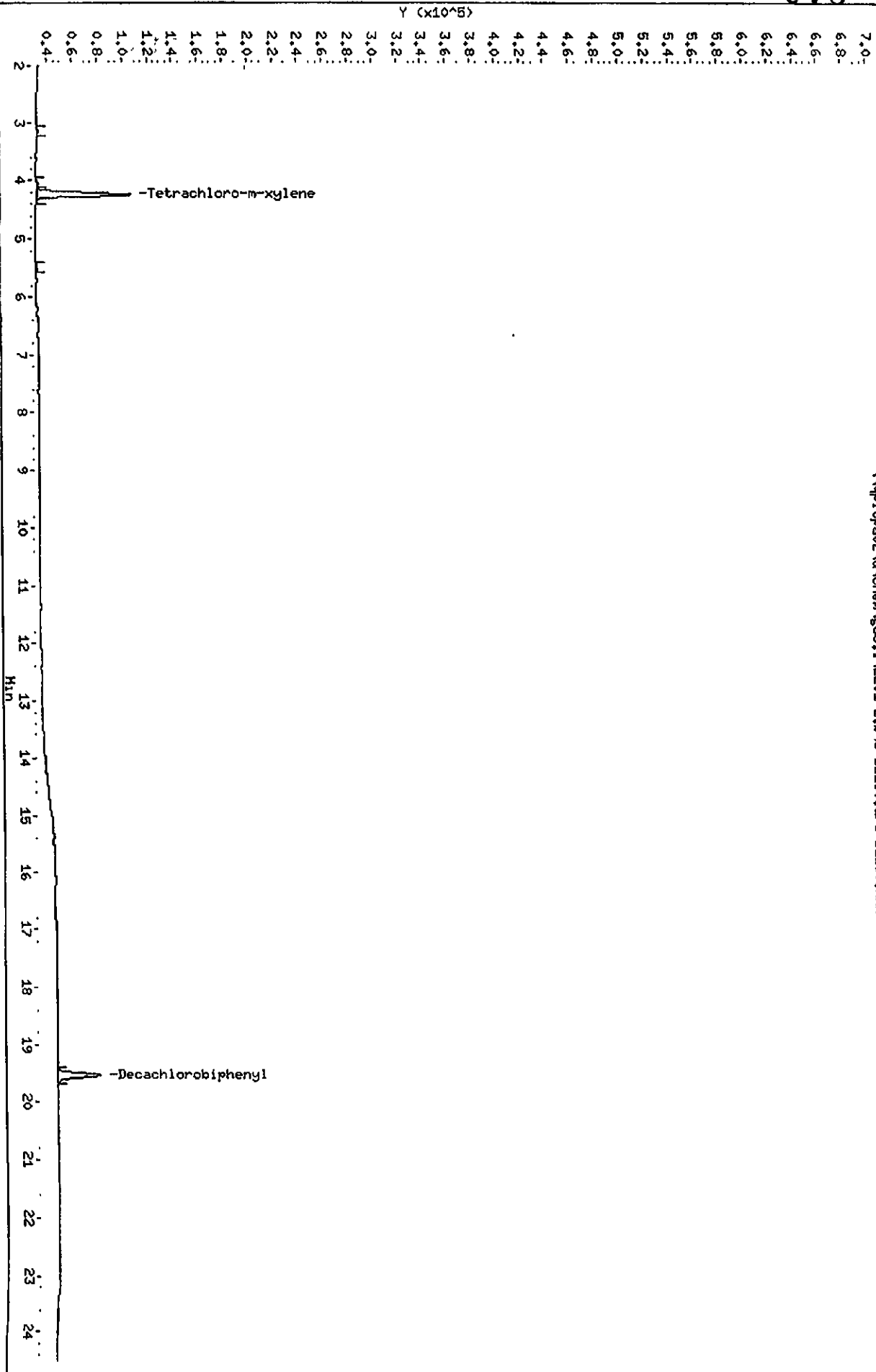
678

419

Data File: \\pp1tpa02\chem\gc3.1\2201-E.b\C-B2150.d
Date: 20-MAR-2001 18:56
Client ID: PRLK5434
Sample Info: DXJ74A9,2201-E.b,PEST,sub,,3,
Volume Injected (uL): 1.0
Column Phase: RTX-1701

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc3.1\2201-E.b\C-B2150.d\C-B2150.RAW



678 420

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2150.d
 Report Date: 21-Mar-2001 11:35

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2150.d
 Lab Smp Id: DXJT71AA Client Smp ID: PBLK5434
 Inj Date : 20-MAR-2001 18:56
 Operator : 010139 Inst ID: gc3.i
 Smp Info : DXJT71AA,2201-E.b,,PEST.sub,,3,
 Misc Info : 150304BLK
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
 Meth Date : 21-Mar-2001 11:12 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC061

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	4.466	4.458	0 008	40924	0.01607	0 1607
5 alpha-BHC				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		
20 Endrin				Compound Not Detected		

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2150.d
 Report Date: 21-Mar-2001 11:35

678 421

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
-----	--	-----	-----	-----	-----	-----
21 4,4'-DDD				Compound Not Detected.		
18 Toxaphene				Compound Not Detected.		
22 Endosulfan II				Compound Not Detected.		
23 4,4'-DDT				Compound Not Detected.		
24 Endrin aldehyde	15.675	15.658	0.017	654	<0.0	0.003264(a)
26 Endosulfan sulfate				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	21.466	21.475	-0.009	23975	0.01902	0.1902

QC Flag Legend

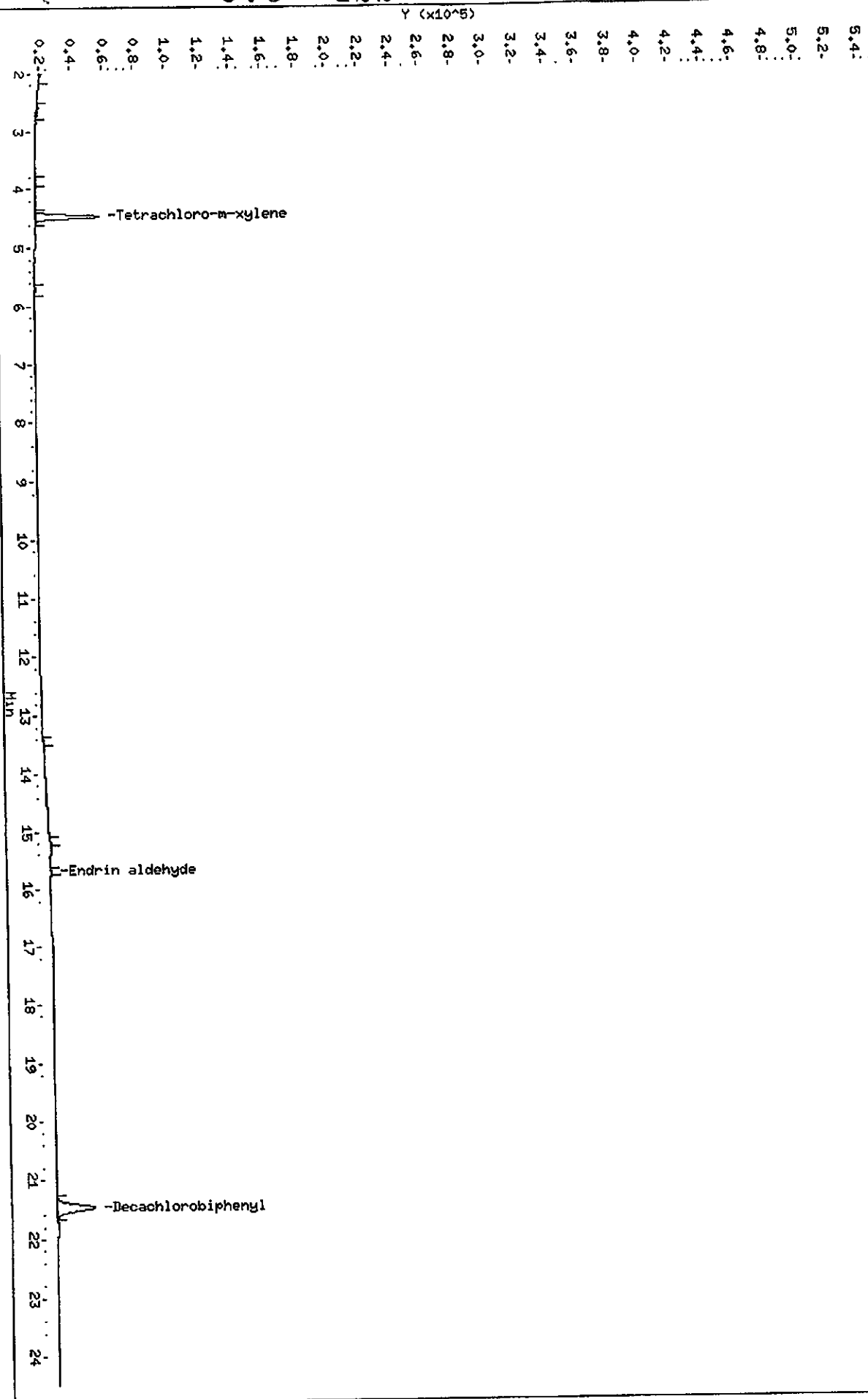
a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

678 422

Data File: \\ppitp02\chem\gc3.i\2201-E.b\C-A2150.d
 Date: 20-MAR-2001 18:56
 Client ID: PBLK5434
 Sample Info: DXTJ7106,2201-E.b,PEST,sub,,3,
 Volume Injected (ul): 1.0
 Column phase: RTX-50

Instrument: gc3.i
 Operator: 040139
 Column diameter: 0.53

\\ppitp02\chem\gc3.i\2201-E.b\C-A2150.d\C-A2150.RM



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C160000 434

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXJT71AC

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1075434

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	ug/L
309-00-2	Aldrin	0.223	
58-89-9	gamma-BHC (Lindane)	0.235	
50-29-3	4,4'-DDT	0.443	
60-57-1	Dieldrin	0.456	
72-20-8	Endrin	0.479	
76-44-8	Heptachlor	0.232	

678 424

Data File: \\gpitpa02\d\chem\gc3.i\2201-E.b\C-B2170.d
 Report Date: 21-Mar-2001 15:35

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc3.i\2201-E.b\C-B2170.d
 Lab Smp Id: DXJT71AC Client Smp ID: LCS5434
 Inj Date : 21-MAR-2001 12:33
 Operator : 010139 Inst ID: gc3.i
 Smp Info : DXJT71AC, 2201-E.b, , PEST.sub, , 3,
 Misc Info : 150304LCS
 Comment :
 Method : \\gpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 15:34 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC061

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	4.233	4.225	0.008	94682	0.02033	0.2033
5 alpha-BHC				Compound Not Detected.		
6 gamma-BHC (Lindane)	8.250	8.241	0.009	141519	0.02550	0.2550
9 Chlordane				Compound Not Detected.		
10 Heptachlor	8.916	8.908	0.008	130228	0.02561	0.2561
11 Aldrin	9.866	9.858	0.008	112375	0.02404	0.2404
7 beta-BHC				Compound Not Detected.		
8 delta-BHC				Compound Not Detected.		
12 Heptachlor epoxide				Compound Not Detected.		
15 Endosulfan I				Compound Not Detected.		
13 gamma-Chlordane				Compound Not Detected.		
14 alpha-Chlordane				Compound Not Detected.		
16 4,4'-DDE				Compound Not Detected.		
17 Dieldrin	13.825	13.816	0.009	197353	0.04768	0.4768
20 Endrin	14.216	14.216	0.000	174493	0.04849	0.4849
18 Toxaphene				Compound Not Detected.		

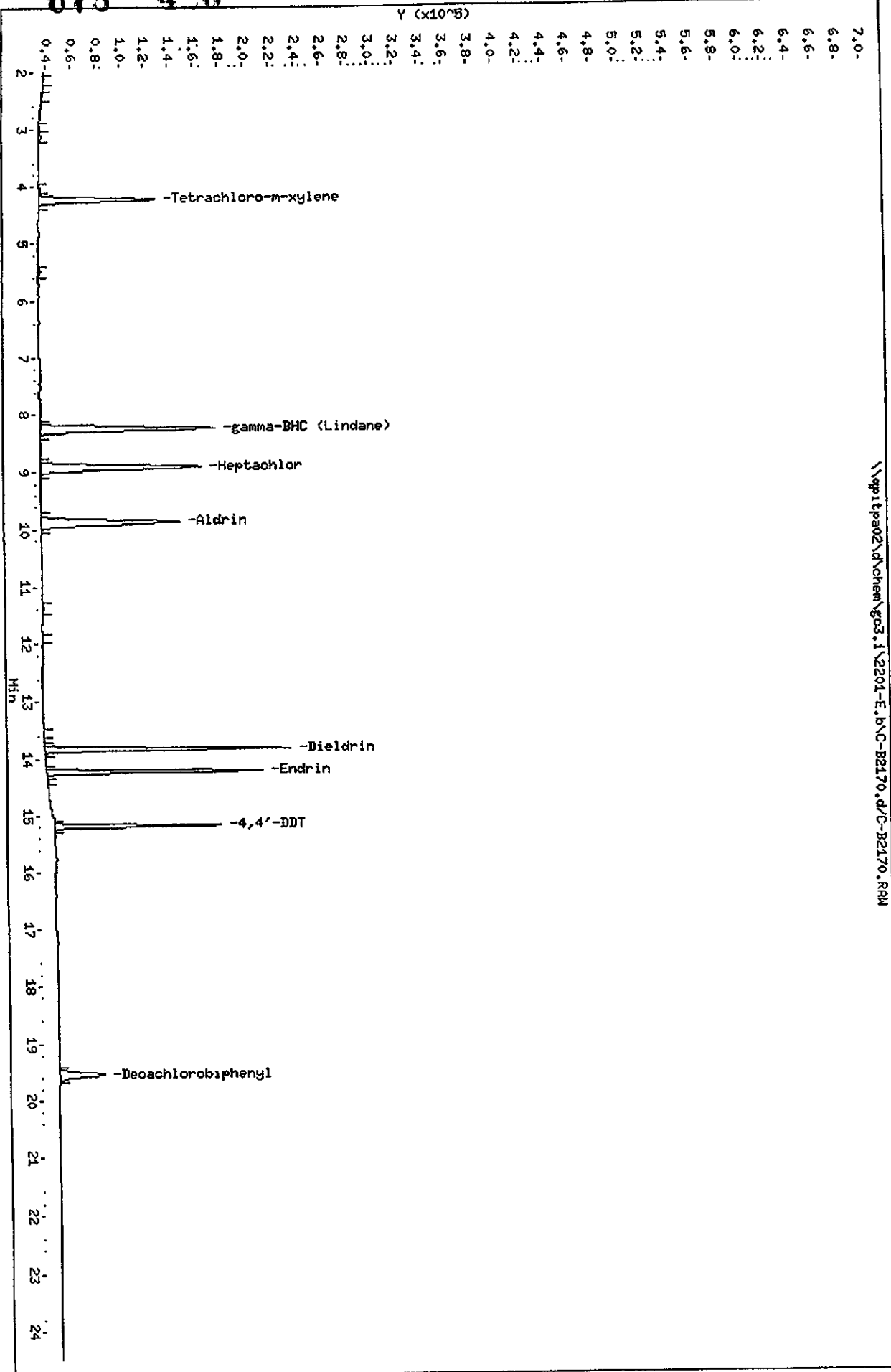
Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2170.d
Report Date: 21-Mar-2001 15:35

678 425

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
21 4,4'-DDD				Compound Not Detected		
22 Endosulfan II				Compound Not Detected.		
23 4,4'-DDT	15.183	15.183	0.000	134425	0.04776	0.4776
24 Endrin aldehyde				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected.		
26 Endosulfan sulfate				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	19 550	19.533	0 017	36835	0.01968	0.1968

Data File: \\qpt1p02\\chem\\gc3.1\\2201-E.b\\C-B2170.d
 Date: 21-MAR-2001 12:33
 Client ID: LCS5434
 Sample Info: DXJ714RC, 2201-E.b, PEST.sub, 3,
 Volume Injected (uL): 1.0
 Column phase: RTX-1701

Instrument: gc3.1
 Operator: 010139
 Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2170.d
Lab Smp Id: DXJT71AC Client Smp ID: LCS5434
Inj Date : 21-MAR-2001 12:33
Operator : 010139 Inst ID: gc3.i
Smp Info : DXJT71AC, 2201-E.b, , PEST.sub, , 3,
Misc Info : 150304LCS
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Meth Date : 21-Mar-2001 15:25 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC061

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Vt}/\text{Vo}) / \text{Vi}$

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 Tetrachloro-m-xylene	4.466	4.458	0.008	45793	0.01798	0.1798
5 alpha-BHC				Compound Not Detected		
6 gamma-BHC (Lindane)	8.033	8.025	0.008	65145	0.02353	0.2353
7 beta-BHC				Compound Not Detected.		
9 Chlordane				Compound Not Detected.		
10 Heptachlor	9.033	9.025	0.008	51498	0.02325	0.2324
8 delta-BHC				Compound Not Detected		
11 Aldrin	10.266	10.258	0.008	47798	0.02227	0.2227
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	14.050	14.050	0.000	131835	0.04562	0.4562
20 Endrin	14.666	14.658	0.008	121698	0.04793	0.4793
21 4,4'-DDD				Compound Not Detected.		

673 428

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2170.d
 Report Date: 21-Mar-2001 15:30

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
18 Toxaphene				Compound Not Detected		
22 Endosulfan II				Compound Not Detected		
23 4,4'-DDT	15 400	15.391	0.009	105152	0 04427	0.4427
24 Endrin aldehyde	15 675	15.658	0.017	1818	<0 0	0.009075(a)
26 Endosulfan sulfate				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected		
27 Endrin ketone	17.533	17.525	0 008	1451	<0 0	0.007506(a)
\$ 30 Decachlorobiphenyl	21.491	21 475	0 016	24838	0.01970	0 1970

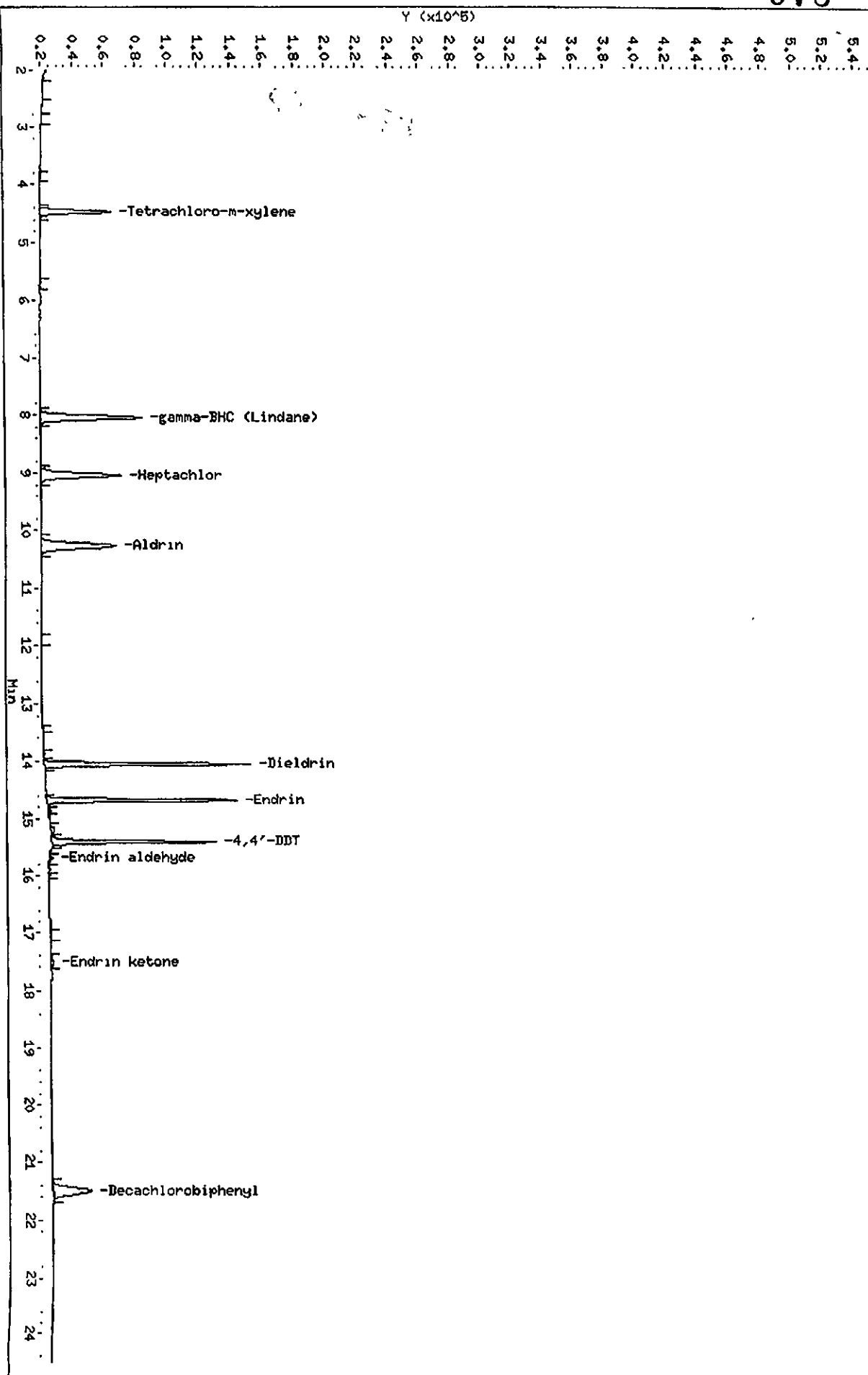
QC Flag Legend

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

Data File: \\ppltpa02\chem\gc3.1\2201-E.b\C-A2170.d
Date: 21-MAR-2001 12:33
Client ID: LCSS434
Sample Info: DKJ71AC, 2201-E.b, PEST, sub, 3,
Volume Injected (uL): 1.0
Column phase: RTX-50

Instrument: gc3.1
Operator: 010139
Column diameter: 0.53

\\ppltpa02\chem\gc3.1\2201-E.b\C-A2170.d\C-A2170.RAW



673 430

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

LCS5434

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab Sample ID: DXJT71AC

Date(s) Analyzed: 03/21/01 03/21/01

Instrument ID (1): GC3

Instrument ID (2): GC3

GC Column(1): RTX-50

ID: 0.53(mm)

GC Column(2): RTX-1701

ID: 0.53(mm)

ANALYTE =====	COL =====	RT =====	RT WINDOW		CONCENTRATION =====	%D =====
			FROM =====	TO =====		
gamma-BHC (Lindane)	1	8.03	7.98	8.08	0.2353	
	2	8.25	8.19	8.29	0.2550	8.4
Heptachlor	1	9.03	8.97	9.08	0.2324	
	2	8.92	8.86	8.96	0.2561	10.2
Aldrin	1	10.27	10.21	10.31	0.2227	
	2	9.87	9.81	9.91	0.2404	7.9
Dieldrin	1	14.05	14.00	14.10	0.4562	
	2	13.83	13.77	13.87	0.4768	4.5
Endrin	1	14.67	14.61	14.71	0.4793	
	2	14.22	14.17	14.27	0.4849	1.2
4,4'-DDT	1	15.40	15.34	15.44	0.4427	
	2	15.18	15.13	15.23	0.4776	7.9
	1					
	2					
	1					
	2					

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

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

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

Lab Sample ID: C1C160000 434

Sample WT/Vol: 1000 / mL
Work Order: DXJT71AD
Dilution factor: 1
Moisture %: NA

Date Received: 03/15/01
Date Extracted: 03/16/01
Date Analyzed: 03/21/01

QC Batch: 1075434

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
309-00-2	Aldrin	0.214	
58-89-9	gamma-BHC (Lindane)	0.226	
50-29-3	4,4'-DDT	0.421	
60-57-1	Dieldrin	0.436	
72-20-8	Endrin	0.451	
76-44-8	Heptachlor	0.223	

678 432

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2171.d
 Report Date: 21-Mar-2001 15:35

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-B2171.d
 Lab Smp Id: DXJT71AD Client Smp ID: LCD5434
 Inj Date : 21-MAR-2001 13:02
 Operator : 010139 Inst ID: gc3.i
 Smp Info : DXJT71AD,2201-E.b,,PEST.sub,,3,
 Misc Info : 150304LCD
 Comment :
 Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTB.m
 Meth Date : 21-Mar-2001 15:34 eppingerd Quant Type: ESTD
 Cal Date : 20-MAR-2001 16:28 Cal File: C-B2145.d
 Als bottle: 1 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC061

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

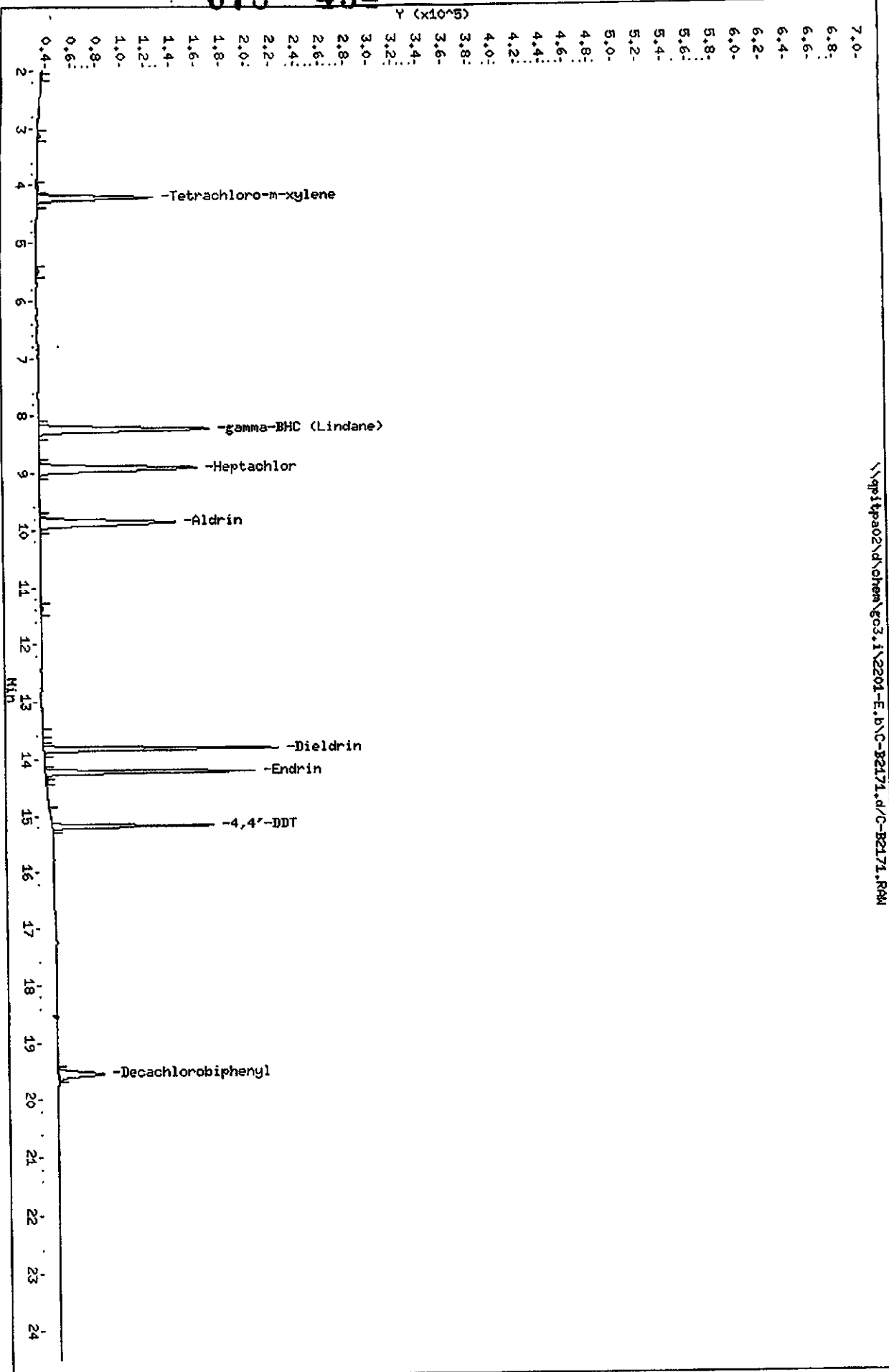
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
\$ 1 Tetrachloro-m-xylene	4.225	4.225	0.000	92776	0.01992	0.1992
5 alpha-BHC	Compound Not Detected					
6 gamma-BHC (Lindane)	8.241	8.241	0.000	137272	0.02473	0.2473
9 Chlordane	Compound Not Detected					
10 Heptachlor	8.916	8.908	0.008	125911	0.02476	0.2476
11 Aldrin	9.866	9.858	0.008	108710	0.02326	0.2326
7 beta-BHC	Compound Not Detected					
8 delta-BHC	Compound Not Detected					
12 Heptachlor epoxide	Compound Not Detected.					
15 Endosulfan I	Compound Not Detected.					
13 gamma-Chlordane	Compound Not Detected.					
14 alpha-Chlordane	Compound Not Detected.					
16 4,4'-DDE	Compound Not Detected.					
17 Dieldrin	13.825	13.816	0.009	188826	0.04562	0.4562
20 Endrin	14.216	14.216	0.000	167987	0.04668	0.4668
18 Toxaphene	Compound Not Detected					

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/L)
-----	--	-----	-----	-----	-----	-----
21 4,4'-DDD				Compound Not Detected.		
22 Endosulfan II				Compound Not Detected.		
23 4,4'-DDT	15.183	15 183	0.000	129659	0.04606	0.4606
24 Endrin aldehyde				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected.		
26 Endosulfan sulfate				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	19 541	19 533	0 008	35680	0 01907	0 1907

673 434

Data File: \\p01pa02\chem\gc3.i\2201-E.b\C-B2171.d
 Date: 21-Mar-2001 13:02
 Client ID: LCD8434
 Sample Info: DKJ71AD\2201-E.b,,PEST,sub,,3,
 Volume Injected (uL): 1.0
 Column phase: RTX-1701

Instrument: gc3.1
 Operator: 010139
 Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2171.d
Lab Smp Id: DXJT71AD Client Smp ID: LCD5434
Inj Date : 21-MAR-2001 13:02
Operator : 010139 Inst ID: gc3.i
Smp Info : DXJT71AD,2201-E.b,,PEST.sub,,3,
Misc Info : 150304LCD
Comment :
Method : \\qpitpa02\d\chem\gc3.i\2201-E.b\PESTA.m
Meth Date : 21-Mar-2001 15:25 eppingerd Quant Type: ESTD
Cal Date : 20-MAR-2001 16:28 Cal File: C-A2145.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PEST.sub
Target Version: 4.04
Processing Host: PITPC061

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	4.466	4 458	0.008	44839	0.01761	0.1761
5 alpha-BHC				Compound Not Detected.		
6 gamma-BHC (Lindane)	8 033	8.025	0 008	62704	0 02265	0 2265
7 beta-BHC				Compound Not Detected.		
9 Chlordane				Compound Not Detected		
10 Heptachlor	9 033	9 025	0.008	49330	0.02227	0 2227
8 delta-BHC				Compound Not Detected		
11 Aldrin	10.266	10.258	0 008	46047	0.02145	0.2145
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	14.050	14 050	0 000	125906	0 04357	0.4357
20 Endrin	14.666	14 658	0.008	114554	0.04511	0.4511
21 4,4'-DDD				Compound Not Detected		

673 436

Data File: \\qpitpa02\d\chem\gc3.i\2201-E.b\C-A2171.d
 Report Date: 21-Mar-2001 15:30

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
18 Toxaphene						
22 Endosulfan II						
23 4,4'-DDT	15.400	15.391	0.009	100096	0.04214	0.4214
24 Endrin aldehyde	15.666	15.658	0.008	902	0.00045	0.004502(a)
26 Endosulfan sulfate						
25 Methoxychlor						
27 Endrin ketone	17.533	17.525	0.008	1208	<0.0	0.006249(a)
\$ 30 Decachlorobiphenyl	21.491	21.475	0.016	24180	0.01918	0.1918

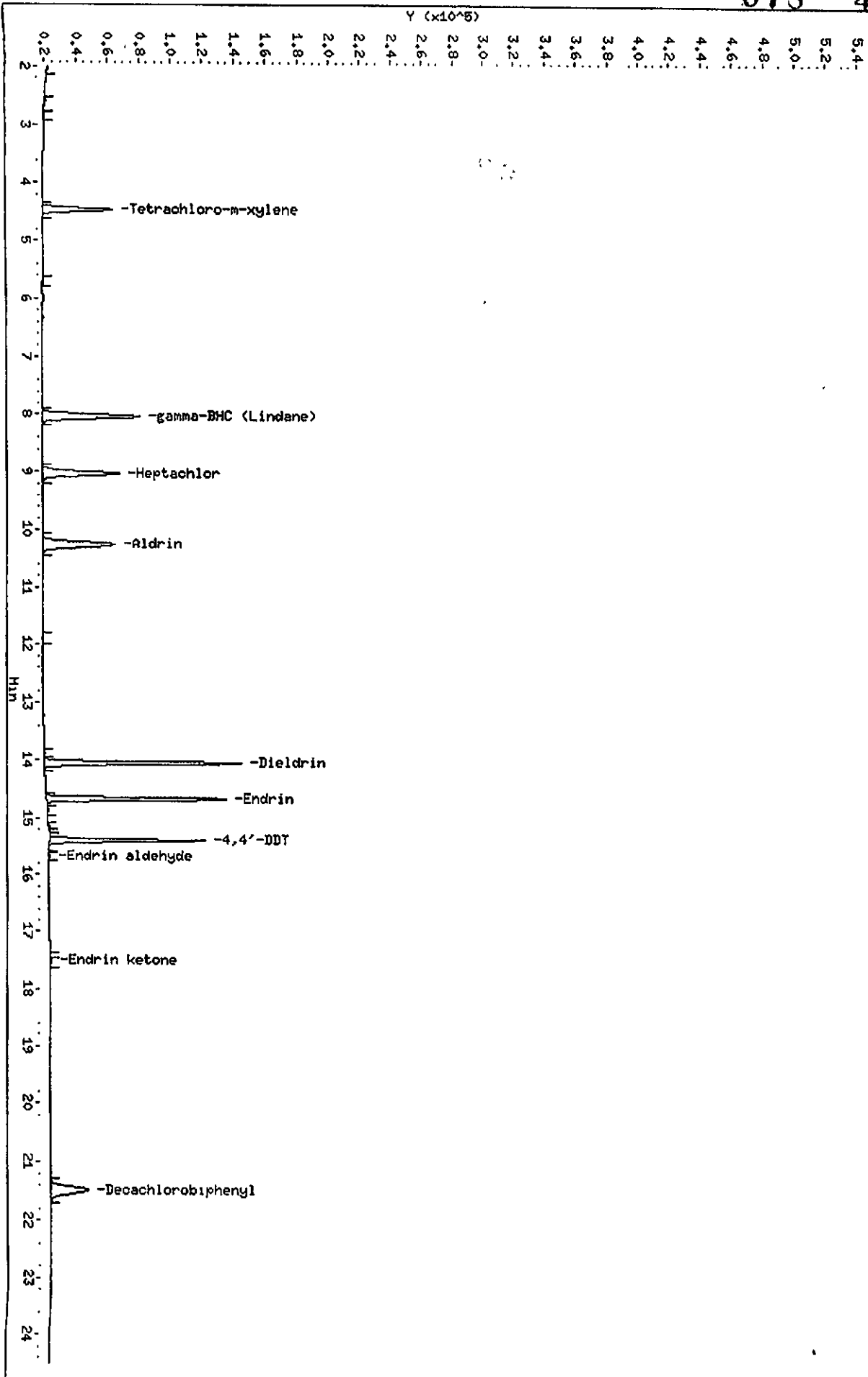
QC Flag Legend

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

Data File: \\pp1pa02\chem\gc3.1\2201-E.b\c-A2171.d
Date: 21-MAR-2001 13:02
Client ID: LCD5434
Sample Info: DXJ7140, 2201-E.b, PEST.sub, 3,
Volume Injected (uL): 1.0
Column Phase: RTX-50

Instrument: gc3.i
Operator: 010139
Column diameter: 0.53

\\pp1pa02\chem\gc3.1\2201-E.b\c-A2171.d\c-A2171.RAW



673 438

10A

EPA SAMPLE NO.

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCD5434

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab Sample ID: DXJT71AD

Date(s) Analyzed: 03/21/01 03/21/01

Instrument ID (1): GC3

Instrument ID (2): GC3

GC Column(1): RTX-50

ID: 0.53 (mm)

GC Column(2): RTX-1701

ID: 0.53 (mm)

ANALYTE =====	COL ==	RT =====	RT WINDOW		CONCENTRATION =====	%D =====
			FROM =====	TO =====		
gamma-BHC (Lindane)	1	8.03	7.98	8.08	0.2265	
	2	8.24	8.19	8.29	0.2473	9.2
Heptachlor	1	9.03	8.97	9.08	0.2227	
	2	8.92	8.86	8.96	0.2476	11.2
Aldrin	1	10.27	10.21	10.31	0.2145	
	2	9.87	9.81	9.91	0.2326	8.4
Dieldrin	1	14.05	14.00	14.10	0.4357	
	2	13.83	13.77	13.87	0.4562	4.7
Endrin	1	14.67	14.61	14.71	0.4511	
	2	14.22	14.17	14.27	0.4668	3.5
4,4'-DDT	1	15.40	15.34	15.44	0.4214	
	2	15.18	15.13	15.23	0.4606	9.3
	1					
	2					
	1					
	2					

673 439

PESTICIDE
MISCELLANEOUS

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\2201-E.SEQ
 Created by : DE11/02/98 on : 3/20/01 14:57
 Edited by : DE03/20/01 on : 3/21/01 11:39
 Description : QUANTERRA PGH 8081 RUN ON GC#3 RTx-50/RTx-1701
 REVIEWED BY:

678

441

Number of Times Edited : 3

✓d umm 3-22-01

Sequence File Header Information:

Number of Rows : 39
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel B Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil Factor	Mult	Divisor	Addend	Norm. factor
1	Std Check	EVALB, 2201-E.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal Replace	MEDTOX, 2201-E.b	190-123-13		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
3	Cal Replace	MEDCHLOR, 2201-E	190-123-14		1.000	1.000	1.000	1.000	333.000	1.000	0.000	100.000
4	Cal Replace	LOWA, 2201-E.b,,	190-124-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal Replace	MLOWA, 2201-E.b,	190-124-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal Replace	MEDA, 2201-E.b,,	190-124-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal Replace	MHIGHA, 2201-E.b	190-124-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal Replace	HIGHA, 2201-E.b,	190-124-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal Replace	LOWB, 2201-E b,,	190-124-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal Replace	MLOWB, 2201-E.b,	190-124-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal Replace	MEDB, 2201-E.b,,	190-124-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal Replace	MHIGHB, 2201-E.b	190-124-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal Replace	HIGHB, 2201-E.b,	190-124-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A, 2201-E.b,	190-125-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Std Check	2ND B, 2201-E.b,	190-125-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	EVALB, 2201-E.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DXGMH1AD, 2201-E	150304001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DXJT71AA, 2201-E	150304BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	~~DXJT71AC, 2201-E~~	~~150304LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	~~DXJT71AD, 2201-E~~	~~150304LCD~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DXFFA1AE, 2201-E	150168002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DXFFA1CR, 2201-E	150168003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DXFFA1CT, 2201-E	150168004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DXJHA1AA, 2201-E	150168BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DXJHA1AC, 2201-E	150168LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DW6521AD, 2201-E	090239001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DW6521AW, 2201-E	090239001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DW6521AX, 2201-E	090239001D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DW8T61AA, 2201-E	090239BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DW8T61AC, 2201-E	090239LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Cal Replace	MEDA, 2201-E.b,,	190-124-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Cal Replace	MEDB, 2201-E b,,	190-124-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Std Check	EVALB, 2201-E.b,	190-126-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Cal Replace	MEDA, 2201-E b,,	190-124-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Cal Replace	MEDB, 2201-E.b,,	190-124-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DXJT71AC, 2201-E	150304LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	DXJT71AD, 2201-E	150304LCD		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Cal Replace	MEDA, 2201-E.b,,	190-124-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Cal Replace	MEDB, 2201-E.b,,	190-124-9		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	GEN3C	GEN3B	122190A	EVAL	C-B2133	C-B2133		C-B2133	-	-	-	LPT1.
2	-	1	2	GEN3C	GEN3B	122190A	TOX	C-B2134	C-B2134		C-B2134	N	MED	N	LPT1., LP
3	-	1	2	GEN3C	GEN3B	122190A	TOX	C-B2135	C-B2135		C-B2135	N	MED	N	LPT1., LP
4	-	1	4	GEN3C	GEN3B	122190A	INDA	C-B2136	C-B2136		C-B2136	N	LOW	N	LPT1.
5	-	1	5	GEN3C	GEN3B	122190A	INDA	C-B2137	C-B2137		C-B2137	N	MLOW	N	LPT1.
6	-	1	6	GEN3C	GEN3B	122190A	INDA	C-B2138	C-B2138		C-B2138	N	MLOW	N	LPT1.
7	-	1	7	GEN3C	GEN3B	122190A	INDA	C-B2139	C-B2139		C-B2139	N	MLOW	N	LPT1.
8	-	1	8	GEN3C	GEN3B	122190A	INDA	C-B2140	C-B2140		C-B2140	N	MLOW	N	LPT1.
9	-	1	9	GEN3C	GEN3B	122190A	INDA	C-B2141	C-B2141		C-B2141	N	LOW	N	LPT1.
10	-	1	10	GEN3C	GEN3B	122190A	INDA	C-B2142	C-B2142		C-B2142	N	MLOW	N	LPT1.
11	-	1	11	GEN3C	GEN3B	122190A	INDA	C-B2143	C-B2143		C-B2143	N	MLOW	N	LPT1.
12	-	1	12	GEN3C	GEN3B	122190A	INDA	C-B2144	C-B2144		C-B2144	N	MLOW	N	LPT1.
13	-	1	13	GEN3C	GEN3B	122190A	INDA	C-B2145	C-B2145		C-B2145	N	MLOW	N	LPT1.

678 442

14	-	1	23	GEN3C	GEN3B	122190A	INDA	C-B2146	C-B2146	C-B2146	-	-	-	LPT1:
15	-	1	24	GEN3C	GEN3B	122190A	INDA	C-B2147	C-B2147	C-B2147	-	-	-	LPT1:
16	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2148	C-B2148	C-B2148	-	-	-	LPT1:
17	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2149	C-B2149	C-B2149	-	-	-	LPT1:
18	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2150	C-B2150	C-B2150	-	-	-	LPT1:
19	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2151	C-B2151	C-B2151	-	-	-	LPT1:
20	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2152	C-B2152	C-B2152	-	-	-	LPT1:
21	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2153	C-B2153	C-B2153	-	-	-	LPT1:
22	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2154	C-B2154	C-B2154	-	-	-	LPT1:
23	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2155	C-B2155	C-B2155	-	-	-	LPT1:
24	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2156	C-B2156	C-B2156	-	-	-	LPT1:
25	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2157	C-B2157	C-B2157	-	-	-	LPT1:
26	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2158	C-B2158	C-B2158	-	-	-	LPT1:
27	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2159	C-B2159	C-B2159	-	-	-	LPT1:
28	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2160	C-B2160	C-B2160	-	-	-	LPT1:
29	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2161	C-B2161	C-B2161	-	-	-	LPT1:
30	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2162	C-B2162	C-B2162	-	-	-	LPT1:
31	-	1	6	GEN3C	GEN3B	122190A	INDA	C-B2163	C-B2163	C-B2163	N	MLOW	N	LPT1:
32	-	1	11	GEN3C	GEN3B	122190A	INDA	C-B2164	C-B2164	C-B2164	N	MLOW	N	LPT1:
33	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2167	C-B2167	C-B2167	-	-	-	LPT1:
34	-	1	6	GEN3C	GEN3B	122190A	INDA	C-B2168	C-B2168	C-B2168	N	MLOW	N	LPT1:
35	-	1	11	GEN3C	GEN3B	122190A	INDA	C-B2169	C-B2169	C-B2169	N	MLOW	N	LPT1:
36	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2170	C-B2170	C-B2170	-	-	-	LPT1:
37	-	1	1	GEN3C	GEN3B	122190A	EVAL	C-B2171	C-B2171	C-B2171	-	-	-	LPT1:
38	-	1	6	GEN3C	GEN3B	122190A	INDA	C-B2172	C-B2172	C-B2172	N	MLOW	N	LPT1:
39	-	1	11	GEN3C	GEN3B	122190A	INDA	C-B2173	C-B2173	C-B2173	N	MLOW	N	LPT1:

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\2201-E.SEQ
 Created by : DE11/02/98 on : 3/20/01 14:57
 Edited by : DE03/20/01 on : 3/21/01 11:39
 Description : QUAN TERRA PGH 8081 RUN ON GC#3 RTx-50/RTx-1701
 REVIEWED BY:

673 443

Number of Times Edited : 3

✓ d wmm 3-22-01

Sequence File Header Information:

Number of Rows : 39
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Sequence Sample Descriptions - Channel A												
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, 2201-E.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
2	Cal:Replace	MEDTOX, 2201-E.b	190-123-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
3	Cal Replace	MEDCHLOR, 2201-E	190-123-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
4	Cal:Replace	LOWA, 2201-E.b,,	190-124-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
5	Cal:Replace	MLOWA, 2201-E.b,	190-124-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
6	Cal:Replace	MEDA, 2201-E.b,,	190-124-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
7	Cal:Replace	MHIGHA, 2201-E.b	190-124-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
8	Cal:Replace	HIGHA, 2201-E.b,	190-124-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
9	Cal:Replace	LOWB, 2201-E.b,,	190-124-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
10	Cal:Replace	MLOWB, 2201-E.b,	190-124-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
11	Cal:Replace	MEDB, 2201-E.b,,	190-124-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
12	Cal:Replace	MHIGHB, 2201-E.b	190-124-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
13	Cal:Replace	HIGHB, 2201-E.b,	190-124-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
14	Std Check	2ND A, 2201-E.b,	190-125-11		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
15	Std Check	2ND B, 2201-E.b,	190-125-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
16	Std Check	EVALB, 2201-E.b,	190-102-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
17	Sample	DXGMH1AD, 2201-E	150304001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
18	Sample	DXJT71AA, 2201-E	150304BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
19	Sample	~~DXJT71AG, 2201-E~~	~~150304LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
20	Sample	~~DXJT71AD, 2201-E~~	~~150304LCS~~		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
21	Sample	DXFFA1AE, 2201-E	150168002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
22	Sample	DXFFA1CR, 2201-E	150168003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
23	Sample	DXFFA1CT, 2201-E	150168004		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
24	Sample	DXJHA1AA, 2201-E	150168BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
25	Sample	DXJHA1AC, 2201-E	150168LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
26	Sample	DW6S21AD, 2201-E	090239001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
27	Sample	DW6S21AW, 2201-E	090239001S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
28	Sample	DW6S21AX, 2201-E	090239001D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
29	Sample	DW8T61AA, 2201-E	090239BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
30	Sample	DW8T61AC, 2201-E	090239LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
31	Cal:Replace	MEDA, 2201-E.b,,	190-124-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
32	Cal:Replace	MEDB, 2201-E.b,,	190-124-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
33	Std Check	EVALB, 2201-E.b,	190-126-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
34	Cal Replace	MEDA, 2201-E.b,,	190-124-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
35	Cal:Replace	MEDB, 2201-E.b,,	190-124-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
36	Sample	DXJT71AC, 2201-E	150304LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
37	Sample	DXJT71AD, 2201-E	150304LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
38	Cal:Replace	MEDA, 2201-E.b,,	190-124-3		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000
39	Cal:Replace	MEDB, 2201-E.b,,	190-124-9		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	GEN3C	GEN3A	122190A	EVAL	C-A2133	C-A2133	C-A2133	C-A2133	-	-	-	LPT1:
2	-	1	2	GEN3C	GEN3A	122190A	TOX	C-A2134	C-A2134	C-A2134	C-A2134	N	MED	N	LPT1: , LP
3	-	1	2	GEN3C	GEN3A	122190A	TOX	C-A2135	C-A2135	C-A2135	C-A2135	N	MED	N	LPT1: , LP
4	-	1	4	GEN3C	GEN3A	122190A	INDA	C-A2136	C-A2136	C-A2136	C-A2136	N	LOW	N	LPT1
5	-	1	5	GEN3C	GEN3A	122190A	INDA	C-A2137	C-A2137	C-A2137	C-A2137	N	MLOW	N	LPT1:
6	-	1	6	GEN3C	GEN3A	122190A	INDA	C-A2138	C-A2138	C-A2138	C-A2138	N	MLOW	N	LPT1:
7	-	1	7	GEN3C	GEN3A	122190A	INDA	C-A2139	C-A2139	C-A2139	C-A2139	N	MLOW	N	LPT1:
8	-	1	8	GEN3C	GEN3A	122190A	INDA	C-A2140	C-A2140	C-A2140	C-A2140	N	MLOW	N	LPT1:
9	-	1	9	GEN3C	GEN3A	122190A	INDA	C-A2141	C-A2141	C-A2141	C-A2141	N	LOW	N	LPT1:
10	-	1	10	GEN3C	GEN3A	122190A	INDA	C-A2142	C-A2142	C-A2142	C-A2142	N	MLOW	N	LPT1:
11	-	1	11	GEN3C	GEN3A	122190A	INDA	C-A2143	C-A2143	C-A2143	C-A2143	N	MLOW	N	LPT1:
12	-	1	12	GEN3C	GEN3A	122190A	INDA	C-A2144	C-A2144	C-A2144	C-A2144	N	MLOW	N	LPT1:
13	-	1	13	GEN3C	GEN3A	122190A	INDA	C-A2145	C-A2145	C-A2145	C-A2145	N	MLOW	N	LPT1:

14	-	1	23	GEN3C	GEN3A	122190A	INDA	C-A2146	C-A2146	C-A2146	-	-	-	LPT1:
15	-	1	24	GEN3C	GEN3A	122190A	INDA	C-A2147	C-A2147	C-A2147	-	-	-	LPT1:
16	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2148	C-A2148	C-A2148	-	-	-	LPT1:
17	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2149	C-A2149	C-A2149	-	-	-	LPT1:
18	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2150	C-A2150	C-A2150	-	-	-	LPT1:
19	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2151	C-A2151	C-A2151	-	-	-	LPT1:
20	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2152	C-A2152	C-A2152	-	-	-	LPT1:
21	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2153	C-A2153	C-A2153	-	-	-	LPT1:
22	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2154	C-A2154	C-A2154	-	-	-	LPT1:
23	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2155	C-A2155	C-A2155	-	-	-	LPT1:
24	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2156	C-A2156	C-A2156	-	-	-	LPT1:
25	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2157	C-A2157	C-A2157	-	-	-	LPT1:
26	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2158	C-A2158	C-A2158	-	-	-	LPT1:
27	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2159	C-A2159	C-A2159	-	-	-	LPT1:
28	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2160	C-A2160	C-A2160	-	-	-	LPT1:
29	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2161	C-A2161	C-A2161	-	-	-	LPT1:
30	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2162	C-A2162	C-A2162	-	-	-	LPT1:
31	-	1	6	GEN3C	GEN3A	122190A	INDA	C-A2163	C-A2163	C-A2163	N	MLOW	N	LPT1:
32	-	1	11	GEN3C	GEN3A	122190A	INDA	C-A2164	C-A2164	C-A2164	N	MLOW	N	LPT1:
33	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2167	C-A2167	C-A2167	-	-	-	LPT1:
34	-	1	6	GEN3C	GEN3A	122190A	INDA	C-A2168	C-A2168	C-A2168	N	MLOW	N	LPT1:
35	-	1	11	GEN3C	GEN3A	122190A	INDA	C-A2169	C-A2169	C-A2169	N	MLOW	N	LPT1:
36	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2170	C-A2170	C-A2170	-	-	-	LPT1:
37	-	1	1	GEN3C	GEN3A	122190A	EVAL	C-A2171	C-A2171	C-A2171	-	-	-	LPT1:
38	-	1	6	GEN3C	GEN3A	122190A	INDA	C-A2172	C-A2172	C-A2172	N	MLOW	N	LPT1:
39	-	1	11	GEN3C	GEN3A	122190A	INDA	C-A2173	C-A2173	C-A2173	N	MLOW	N	LPT1:

REQUESTED BY: YUSHINSC

METHOD QJ Pesticides (8081A)

<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>
11C CLP1	DXGMH-1-AD	— — —	320867	399411	I-09-QJ	C1C150304	001		WATER	0	13 1

Used 1 liter per sample,
and empty bottles were
thrown away!
P. Yushinski
3-15-01

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. Yushinski
P. Yushinski

P. Yushinski
P. Yushinski

3-15-01 1538
3-15-01 2010

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

673 446

PCB DATA

PCE
QC SUMMARY

673 448

SW846 8082 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIT

SDG No:

Lot #: C1C150304

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/24-B/1073/IDW/003	272*	86	01
02	METHOD BLK. DXJP61AA	79	85	00
03	LCS DXJP61AC	73	83	00
04	LCSD DXJP61AD	71	83	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: STLPTIT

SDG No:

Lot #: C1C160000

WO #: DXJP61AC

BATCH: 1075419

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.38	74	61- 118	
Aroclor 1260	10.0	7.97	80	61- 124	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

673 450

SW846 8082 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIIT

SDG No:

Lot #: C1C160000

WO #: DXJP61AD

BATCH: 1075419

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Aroclor 1016	10.0	7.36	74	61 - 118	
Aroclor 1260	10.0	7.58	76	61 - 124	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

STL Pittsburgh

4005

678 451

SW846 8082 METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DXJP61AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: STLPIT

SDG Number:

Lab File ID: H-A20605.

Lot Number: C1C150304

Matrix: WATER

Extraction Method:

Date Extracted: 03/16/01

Date Analyzed(1): 03/16/01

Date Analyzed(2): N/A

Time Analyzed(1): 20:09

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/24-B/1073/IDW/003	DXGMH1AE	03/19/01	N/A
02	CHECK SAMPLE	DXJP61AC C	03/16/01	N/A
03	DUPLICATE CHECK	DXJP61AD L	03/16/01	N/A
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

678 452

PCB
SAMPLE DATA

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc. SDG Number:
Matrix: (soil/water) WATER Lab Sample ID: C1C150304 001
Method: SW846 8082
PCBs (8082)
Sample WT/Vol: 1000 / mL Date Received: 03/15/01
Work Order: DXGMH1AE Date Extracted: 03/16/01
Dilution factor: 1 Date Analyzed: 03/19/01
Moisture %: NA
QC Batch: 1075419
Client Sample Id: DF/24-B/1073/IDW/003

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

673 454

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20640.D
 Report Date: 20-Mar-2001 08:59

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20640.D
 Lab Smp Id: DXGMH1AE Client Smp ID: DF/24-B/1073/IDW/00
 Inj Date : 19-MAR-2001 21:17 Inst ID: gc8.i
 Operator : 010139
 Smp Info : DXGMH1AE,2191.b
 Misc Info : 150304001
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 20-Mar-2001 08:29 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
 Als bottle: 32
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PCB.sub
 Target Version: 4.04 Sample Matrix: WATER
 Processing Host: PITPC061

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
==	=====	=====	RESPONSE (ng)	(ug/L)	RATIO
\$ 1	Tetrachloro-m-xylene			CAS # 877-09-8	
1.673	1 680 (-0 007)		493002 0 05446	0 54465	(RM)
8	Aroclor-1221			CAS # 11104-28-2	
Operator disabled compound identification.					
14	Aroclor-1232			CAS #. 11141-16-5	
Operator disabled compound identification					

678 455

CONCENTRATIONS						
RT	EXP RT	DLT RT	ON-COL	FINAL	TARGET RANGE	RATIO
			RESPONSE (ng)	(ug/L)		
==	=====	=====	=====	=====	=====	=====
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			
Qualifier signal(s) failed ratio test.						

\$	34 Decachlorobiphenyl		CAS # 2051-24-3			
10 606	10 603	(0 003)	54014	0 01714	0 17136	

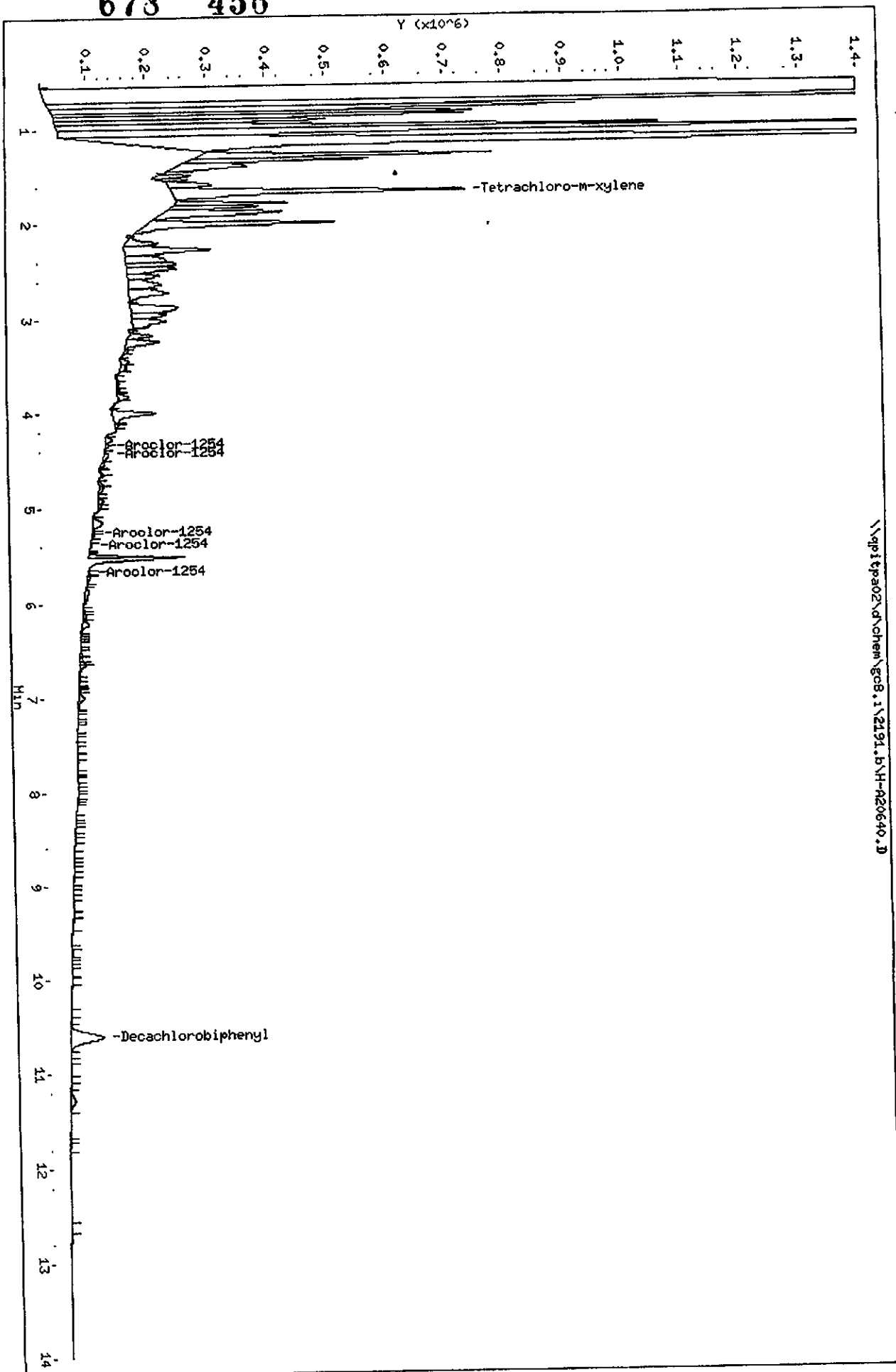
36 Aroclor-1260			CAS # 11096-82-5			
Operator disabled compound identification.						

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\qpltpa02\chem\gc8.1\2191.b\H-A20640.D
 Date: 19-MAR-2001 21:17
 Client ID: DF/24-B/1073/IDM/00
 Sample Info: DXXHH1AE,2191.b
 Volume Injected (uL): 1.0
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53



Data File Name H-A20640 D

Inj Date and Time: 19-MAR-2001 21:17

Instrument ID: gc8 1

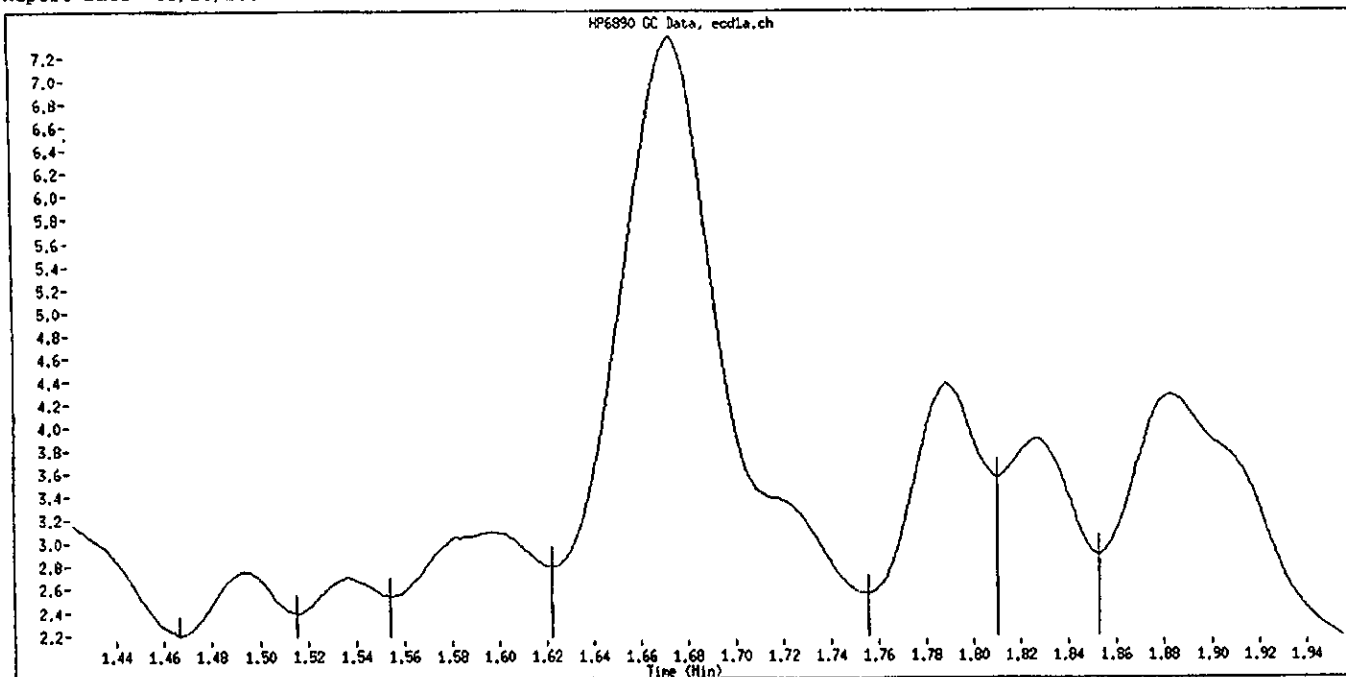
Client ID DF/24-B/1073/IDW/00

Compound Name: Tetrachloro-m-xylene

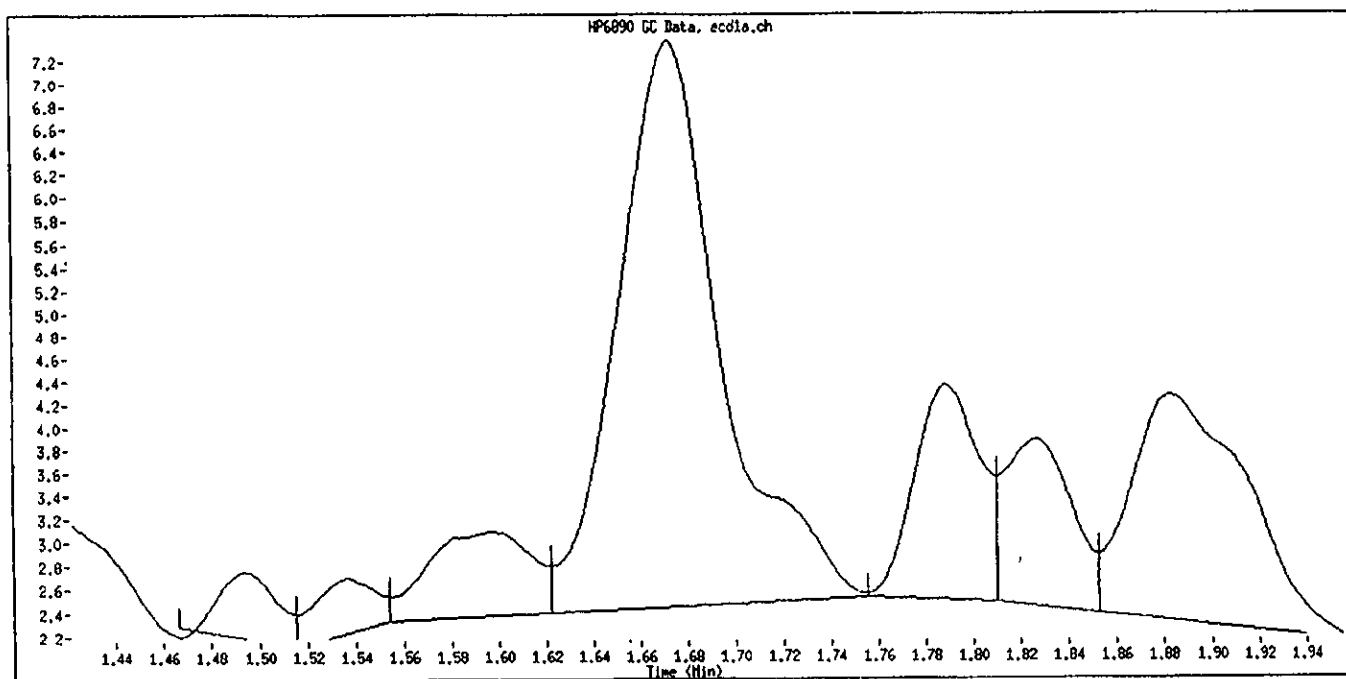
CAS #: 877-09-8

Report Date 03/20/2001

673 457



Original Integration



Manual Integration

Manually Integrated By EppingerD

Manual Integration Reason: Poor Chromatography

678 453

PCB
CALIBRATION DATA

Report Date : 13-Mar-2001 13:47

6E
HP68908m
DB608

673 459

Page 1

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2001 10:02
End Cal Date : 13-MAR-2001 13:01
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
Cal Date : 13-Mar-2001 13:44 eppingerd
Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20469.D
Level 2: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20470.D
Level 3: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20471.D
Level 4: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20472.D
Level 5: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20473.D
Level 6: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20474.D

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	0.20000	RRF	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			
51 Chlordane(1)	++++	++++	++++	++++	++++	++++	++++	++++ <-
(2)	++++	++++	++++	++++	++++	++++	++++	++++ <-
(3)	++++	++++	++++	++++	++++	++++	++++	++++ <-
(4)	++++	++++	++++	++++	++++	++++	++++	++++ <-
8 Aroclor-1221(1)	++++	++++	66924	++++	++++	++++	66924	0.000
(2)	++++	++++	95750	++++	++++	++++	95750	0.000
(3)	++++	++++	185364	++++	++++	++++	185364	0.000
14 Aroclor-1232(1)	++++	++++	132850	++++	++++	++++	132850	0.000
(2)	++++	++++	119682	++++	++++	++++	119682	0.000
(3)	++++	++++	174222	++++	++++	++++	174222	0.000
(4)	++++	++++	115140	++++	++++	++++	115140	0.000
15 Aroclor-1242(1)	++++	++++	349114	++++	++++	++++	349114	0.000
(2)	++++	++++	211528	++++	++++	++++	211528	0.000
(3)	++++	++++	155458	++++	++++	++++	155458	0.000
(4)	++++	++++	159408	++++	++++	++++	159408	0.000
(5)	++++	++++	138448	++++	++++	++++	138448	0.000
20 Aroclor-1016(1)	159250	153865	147648	140829	131324	120396	142219	10.199
(2)	317540	293420	283240	265200	247472	232362	273206	11.423
(3)	477490	451885	446902	424677	405013	388047	432336	7.601
(4)	299230	279390	270262	263842	248379	237797	266483	8.240
(5)	193550	182515	178184	170535	163597	155959	174057	7.784
21 Aroclor-1248(1)	++++	++++	227876	++++	++++	++++	227876	0.000
(2)	++++	++++	217284	++++	++++	++++	217284	0.000
(3)	++++	++++	250244	++++	++++	++++	250244	0.000
(4)	++++	++++	237260	++++	++++	++++	237260	0.000
(5)	++++	++++	235930	++++	++++	++++	235930	0.000

673 469

62
HP68908m
DB608

Report Date : 13-Mar-2001 13:47

Page 2

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 13-MAR-2001 10:02
 End Cal Date : 13-MAR-2001 13:01
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Cal Date : 13-Mar-2001 13:44 eppingerd
 Curve Type : Average

Compound	0 00500	0 01000	0 02500	0 05000	0 10000	0 20000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
33 Aroclor-1254(1)	+++++	+++++	245950	+++++	+++++	+++++	245950	0.000
(2)	+++++	+++++	299484	+++++	+++++	+++++	299484	0.000
(3)	+++++	+++++	449336	+++++	+++++	+++++	449336	0.000
(4)	+++++	+++++	319418	+++++	+++++	+++++	319418	0.000
(5)	+++++	+++++	275224	+++++	+++++	+++++	275224	0.000
36 Aroclor-1260(1)	390110	363215	357048	341968	330286	313966	349432	7.661
(2)	481670	458345	464536	450949	431909	420554	451327	4.923
(3)	381190	363295	370842	359174	344585	337482	359428	4.522
(4)	840190	817860	835226	817338	818023	809120	822959	1.459
(5)	359510	350625	358562	356171	357957	346007	354805	1.507
\$ 1 Tetrachloro-m-xylene	10840600	10501700	10588040	10248820	9820580	9258935	10209779	5.683
\$ 34 Decachlorobiphenyl	3540400	3418200	3567040	3443100	3472980	3366355	3468013	2.177

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20600.D
Report Date: 16-Mar-2001 18:51

Page 1

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

7L
68908A
RTX-50
03608 4M
673 461
3/19/01

Instrument ID: gc8.i Injection Date: 16-MAR-2001 18:29
Lab File ID: H-A20600.D Init. Cal. Date(s): 13-MAR-2001 13-MAR-2001
Analysis Type: Init. Cal. Times: 10:02 13:01
Lab Sample ID: M1660 Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m

COMPOUND	RRF	RFO	MIN	RRF	%D	MAX
20 Aroclor-1016(1)	142219	136744	0.010	-3.8	15.0	
(2)	273206	261682	0.010	-4.2	15.0	
(3)	432336	421402	0.010	-2.5	15.0	
(4)	266483	258314	0.010	-3.1	15.0	
(5)	174057	166600	0.010	-4.3	15.0	
\$ 1 Tetrachloro-m-xylene	10209779	9644240	0.000	-5.5	15.0	
\$ 34 Decachlorobiphenyl	3468013	3185680	0.010	-8.1	15.0	
36 Aroclor-1260(1)	349432	337518	0.010	-3.4	15.0	
(2)	451327	440708	0.010	-2.4	15.0	
(3)	359428	339286	0.010	-5.6	15.0	
(4)	822959	768160	0.010	-6.7	15.0	
(5)	354805	319684	0.010	-9.9	15.0	

678 462

Data File: \\qp1tpa02\d\chem\gc8.i\2131.b\H-A20608.D
Report Date: 19-Mar-2001 08:217E
68908A
DB608

Page 1

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i Injection Date: 16-MAR-2001 21:08
Lab File ID: H-A20608.D Init. Cal. Date(s): 13-MAR-2001 13-MAR-2001
Analysis Type: Init. Cal. Times: 10:02 13:01
Lab Sample ID: M1660 Quant Type: ESTD
Method: \\qp1tpa02\d\chem\gc8.i\2131.b\PCBA.m

COMPOUND	RRF	RFO	MIN	MAX
20 Aroclor-1016(1)	142219	142936	0.010	0.5
(2)	273206	275714	0.010	0.9
(3)	432336	425412	0.010	-1.6
(4)	266483	264852	0.010	-0.6
(5)	174057	173344	0.010	-0.4
\$ 1 Tetrachloro-m-xylene	10209779	10246720	0.000	0.4
\$ 34 Decachlorobiphenyl	3468013	3385680	0.010	-2.4
36 Aroclor-1260(1)	349432	330726	0.010	-5.4
(2)	451327	437440	0.010	-3.1
(3)	359428	315972	0.010	-12.1
(4)	822959	768876	0.010	-6.6
(5)	354805	339390	0.010	-4.3

8D
PESTICIDE ANALYTICAL SEQUENCE

678 463

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C1C150304
GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 03/13/01 03/13/01
Instrument ID: GC8

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
TCX: 1.68		DCB: 10.61			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	M2154	03/13/01	1002	1.68	10.61
02	M1232	03/13/01	1022		
03	M1242	03/13/01	1042		
04	M1248	03/13/01	1102		
05	L1660	03/13/01	1122	1.68	10.62
06	ML1660	03/13/01	1142	1.68	10.62
07	M1660	03/13/01	1201	1.68	10.61
08	MH1660	03/13/01	1221	1.68	10.62
09	H16608	03/13/01	1241	1.68	10.62
10	XH1660	03/13/01	1301	1.68	10.62
11	2M2154	03/13/01	1321	1.68	
12	2M1232	03/13/01	1341		
13	2M1242	03/13/01	1401		
14	2M1248	03/13/01	1420		
15	2M1660	03/13/01	1440		10.62
16	M1660	03/16/01	1829	1.68	10.61
17	PBLK5419	DXJP61AA	03/16/01	2009	1.68
18	LCS5419	DXJP61AC	03/16/01	2028	1.68
19	LCD5419	DXJP61AD	03/16/01	2048	1.68
20	M1660	03/16/01	2108	1.68	10.61
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.

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20465.D
 Lab Smp Id: M2154
 Inj Date : 13-MAR-2001 10:02
 Operator : 010139
 Smp Info : M2154,2131.b
 Misc Info : 190-111-7
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 13:40 eppingerd Quant Type: ESTD
 Cal Date : 13-MAR-2001 10:02 Cal File: H-A20465.D
 Als bottle: 3 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 2-2154.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS							
		CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
8 Aroclor-1221					CAS #: 11104-28-2		
1.465	1.465	(0.000)	33462	0.50000	0.50000	0.00- 0.00	0.00
1.990	1.990	(0.000)	47875	0.50000	0.50000	116.57- 156.57	0.00
2.190	2.190	(0.000)	92682	0.50000	0.50000	66.04- 106.04	0.00
Average of Peak Amounts =					0.5		

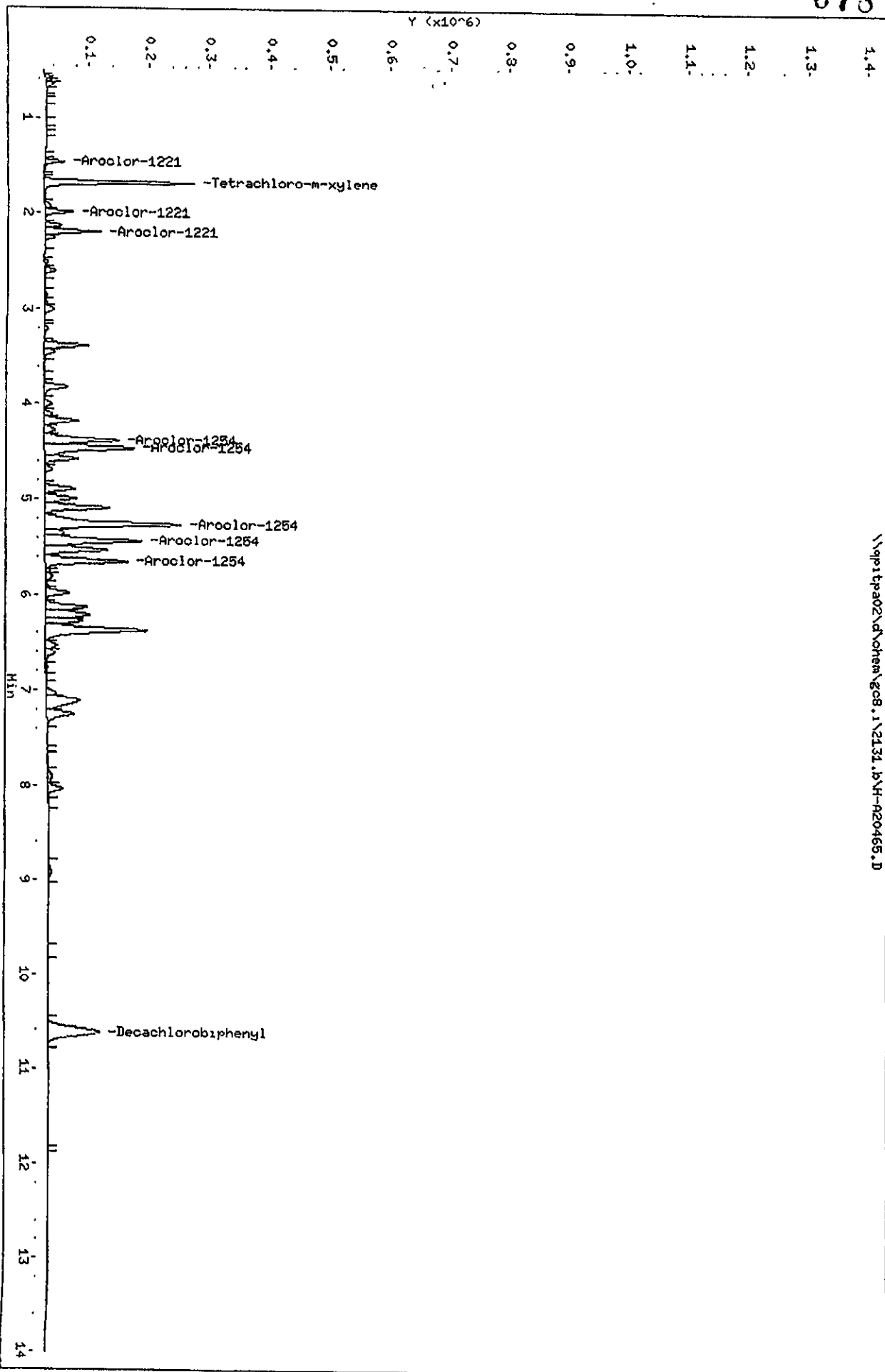
\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1.678	1.680	(-0.002)	247250	0.02500	0.025000		

\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10.614	10.614	(0.000)	84553	0.02500	0.025000		

33 Aroclor-1254					CAS #: 11097-69-1		
4.380	4.380	(0.000)	122975	0.50000	0.50000	0.00- 0.00	0.00
4.458	4.458	(0.000)	149742	0.50000	0.50000	92.23- 132.23	0.00
5.258	5.258	(0.000)	224668	0.50000	0.50000	77.40- 117.40	0.00
5.436	5.436	(0.000)	159709	0.50000	0.50000	51.09- 91.09	0.00
5.653	5.653	(0.000)	137612	0.50000	0.50000	65.01- 105.01	0.00
Average of Peak Amounts =					0.5		

Data File: \\pp1tpa02\chem\g08.1\2131.b\H-A20465.D
Date: 13-MAR-2001 10:02
Client ID:
Sample Info: H2154,2131.b
Column phase: DB608

Instrument: g08.1
Operator: 010139
Column diameter: 0.53



673 466

Data File: \\gpitpa02\d\chem\gc8.i\2131.b\H-A20466.D
 Report Date: 13-Mar-2001 13:41

Page 1

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc8.i\2131.b\H-A20466.D
 Lab Smp Id: M1232
 Inj Date : 13-MAR-2001 10:22
 Operator : 010139
 Smp Info : M1232,2131.b
 Misc Info : 190-111-8
 Comment : 8082 PCB ANALYSIS
 Method : \\gpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 13:40 eppingerd
 Cal Date : 13-MAR-2001 10:22
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20466.D
 Calibration Sample, Level: 3
 Compound Sublist: 3-1232.sub
 Sample Matrix: None

		AMOUNTS							
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO		

14 Aroclor-1232					CAS #	11141-16-5			
2 190	2 190	(0 000)	66425	0.50000	0 50000	0.00-	0 00	0.00	
2 603	2 603	(0 000)	59841	0.50000	0 50000	146 26-	186 26	0.00	
3 010	3 010	(0 000)	87111	0 50000	0.50000	65 99-	105.99	0.00	
3 381	3 381	(0.000)	57570	0.50000	0.50000	74 18-	114.18	0 00	
Average of Peak Amounts =					0 5				

673

467

Data File: \\np1tpa02\chem\gc8.1\2131.b\H-R20466.D

Date: 13-MAR-2004 10:22

Client ID:

Sample Info: M1232, 2131.b

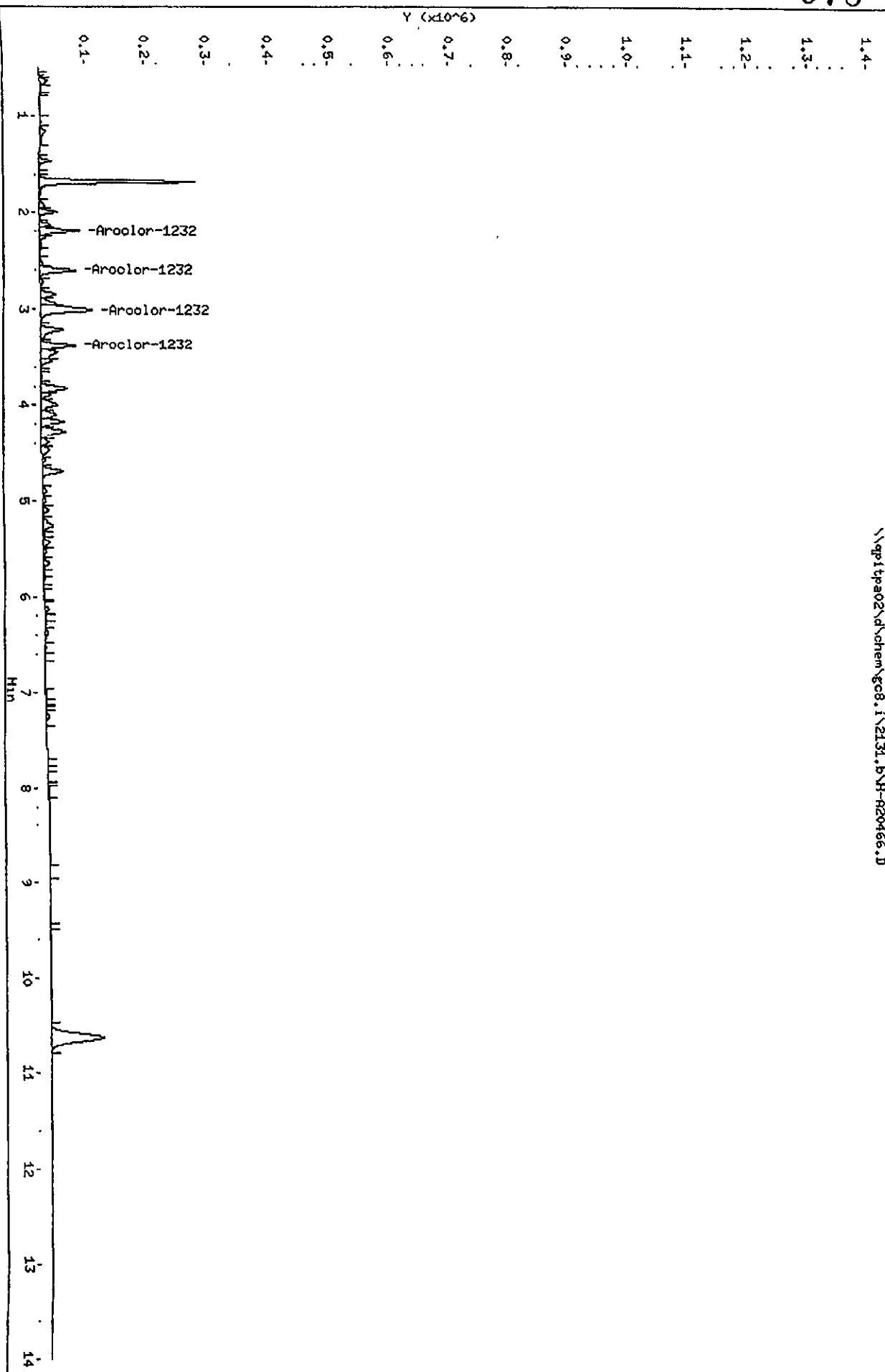
Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

\\np1tpa02\chem\gc8.1\2131.b\H-R20466.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20467.D
 Lab Smp Id: M1242
 Inj Date : 13-MAR-2001 10:42
 Operator : 010139
 Smp Info : M1242,2131.b
 Misc Info : 190-111-9
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 13:41 eppingerd
 Cal Date : 13-MAR-2001 10:42
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

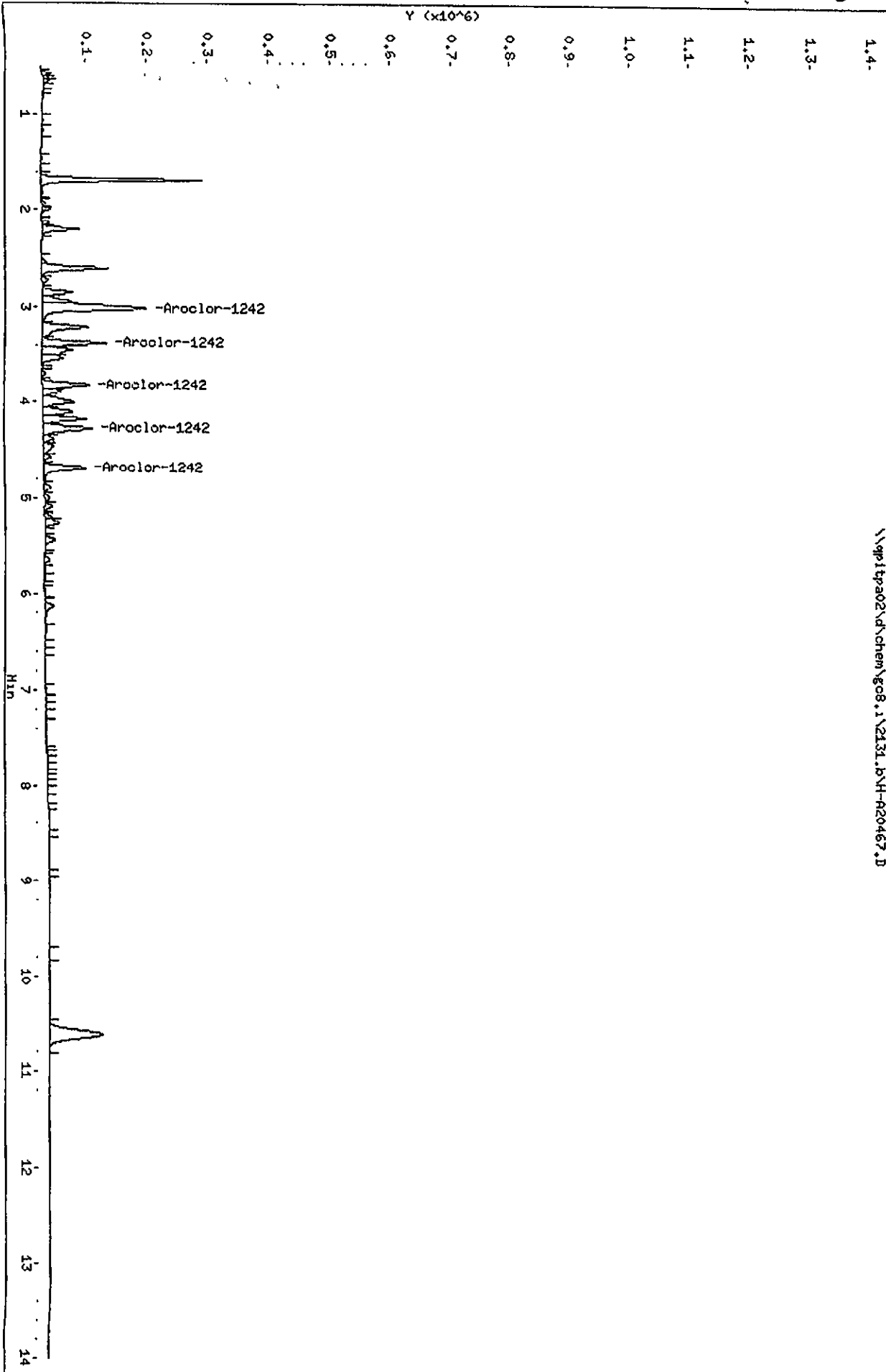
Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20467.D
 Calibration Sample, Level: 3
 Compound Sublist: 4-1242.sub
 Sample Matrix: None

AMOUNTS							
			CAL-AMT		ON-COL		
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE
*****	*****	*****	*****	*****	*****	*****	*****
15 Aroclor-1242			CAS # 53469-21-9				
3 012	3 012	(0 000)	174557	0 50000	0.50000	0.00-	0 00
3 380	3 380	(0 000)	105764	0.50000	0.50000	310 13-	350.13
3.822	3 822	(0 000)	77729	0.50000	0.50000	749 70-	789 70
4 272	4 272	(0 000)	79704	0.50000	0.50000	512.48-	552 48
4.687	4.687	(0.000)	69224	0 50000	0 50000	314 30-	354.30
Average of Peak Amounts =			0 5				

Data File: \\pp1tpa02\chem\g08.i\2131.b\H-A20467.D
Date: 13-MAR-2001 10:42
Client ID:
Sample Info: H1242,2131.b
Column phase: DB608

Instrument: g08.i
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\g08.i\2131.b\H-A20467.D



STL-Pittsburgh

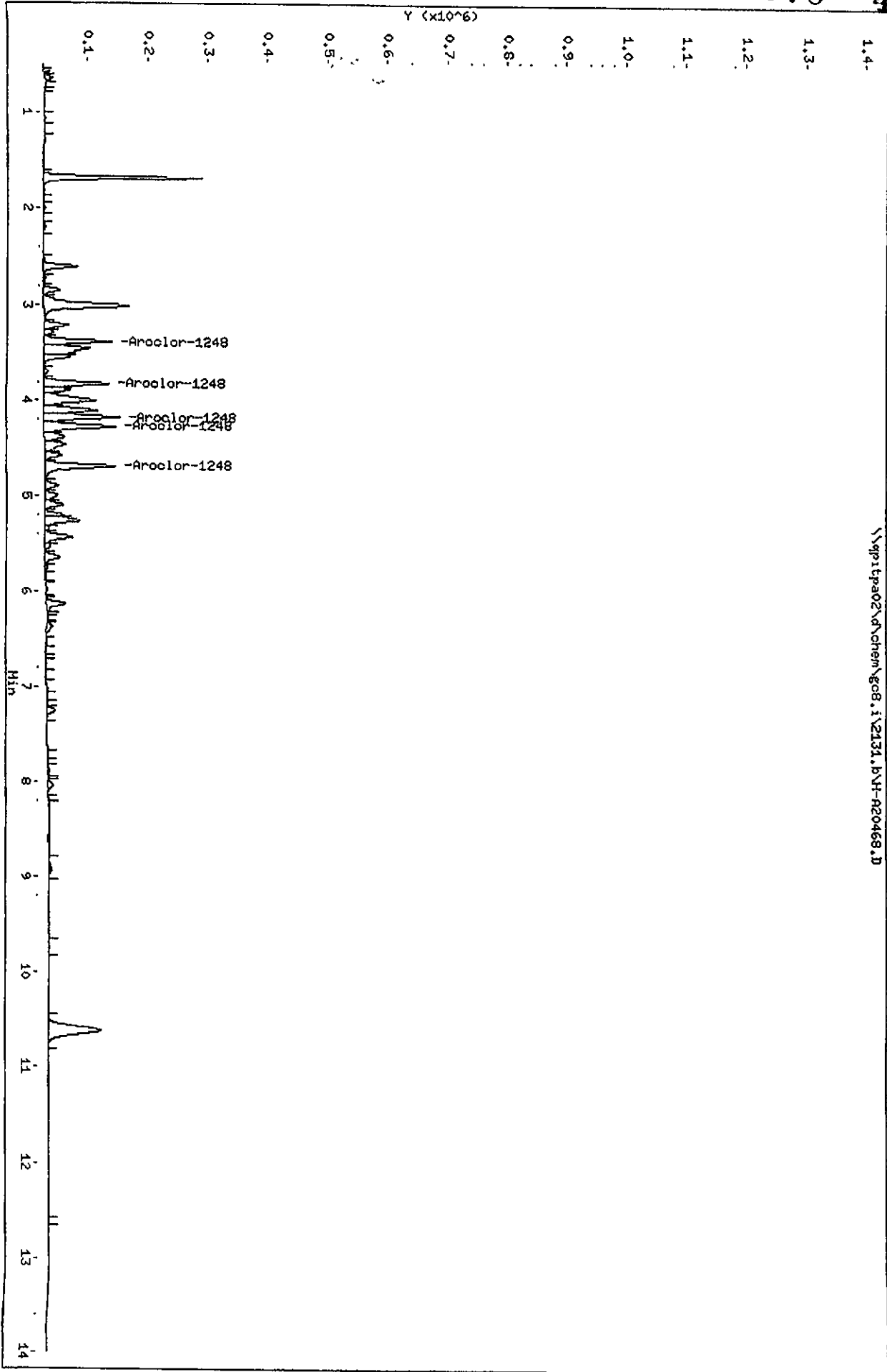
Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20468.D
Lab Smp Id: M1248
Inj Date : 13-MAR-2001 11:02
Operator : 010139
Smp Info : M1248,2131.b
Misc Info : 190-111-10
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
Meth Date : 13-Mar-2001 13:41 eppingerd
Cal Date : 13-MAR-2001 11:02
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20468.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				
3 382	3.382	(0.000)	113938	0.50000	0.50000	0 00-	0.00	0.00	
3 823	3.823	(0 000)	108642	0 50000	0.50000	114 57-	154.57	0 00	
4 173	4.173	(0 000)	125122	0.50000	0 50000	63.67-	103 67	0.00	
4 272	4 272	(0.000)	118630	0 50000	0 50000	43 86-	83.86	0.00	
4 689	4.689	(0 000)	117965	0 50000	0 50000	128 08-	168 08	0.00	
Average of Peak Amounts =					0 5				

Data File: \\pp1tpa02\chem\gc8.i\2131.b\H-A20468.D
 Date : 13-MAR-2001 11:02
 Client ID:
 Sample Info: H1248,2131.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53



678 472

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20469.D
Report Date: 13-Mar-2001 13:42

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20469.D
Lab Smp Id: L1660
Inj Date : 13-MAR-2001 11:22
Operator : 010139 Inst ID: gc8.1
Smp Info : L1660,2131.b
Misc Info : 190-111-11
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
Meth Date : 13-Mar-2001 13:42 eppingerd Quant Type: ESTD
Cal Date : 13-MAR-2001 11:22 Cal File: H-A20469.D
Als bottle: 7 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1-1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

AMOUNTS							
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
			RESPONSE (ng)	(ng)			
..	*****	*****	*****	*****	*****	*****	*****
20 Aroclor-1016				CAS #. 12674-11-2			
2.189	2.191	(-0.002)	15925 0.10000	0.10000	0.00- 0 00	0.00	
2 603	2.602	(0 001)	31754 0.10000	0.10000	80.00- 120 00	0.00	
3 011	3 011	(0 000)	47749 0.10000	0 10000	203.51- 243 51	0 00	
3.382	3 382	(0 000)	29923 0.10000	0.10000	203.51- 243.51	0 00	
3 822	3 822	(0 000)	19355 0 10000	0 10000	297.56- 337.56	0.00	
Average of Peak Amounts =				0 1			

\$ 1 Tetrachloro-m-xylene				CAS # 877-09-8			
1 679	1 680	(-0 001)	54203 0 00500	0 0052293			

\$ 34 Decachlorobiphenyl				CAS #: 2051-24-3			
10 615	10 614	(0 001)	17702 0.00500	0 0051143			

36 Aroclor-1260				CAS #: 11096-82-5			
5 528	5 528	(0.000)	39011 0.10000	0.10000	0 00- 0.00	0 00(M)	
5 655	5 653	(0.002)	48167 0.10000	0 10000	95.86- 135.86	0 00	
6 374	6 378	(-0.004)	38119 0.10000	0 10000	116.91- 156.91	0 00	
7 248	7 247	(0.001)	84019 0 10000	0.10000	120.00- 160.00	0.00	
8.038	8 040	(-0 002)	35951 0.10000	0.10000	108 33- 148 33	0 00	
Average of Peak Amounts =				0.1			

673
Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20469.D
Report Date: '13-Mar-2001 13:42

473

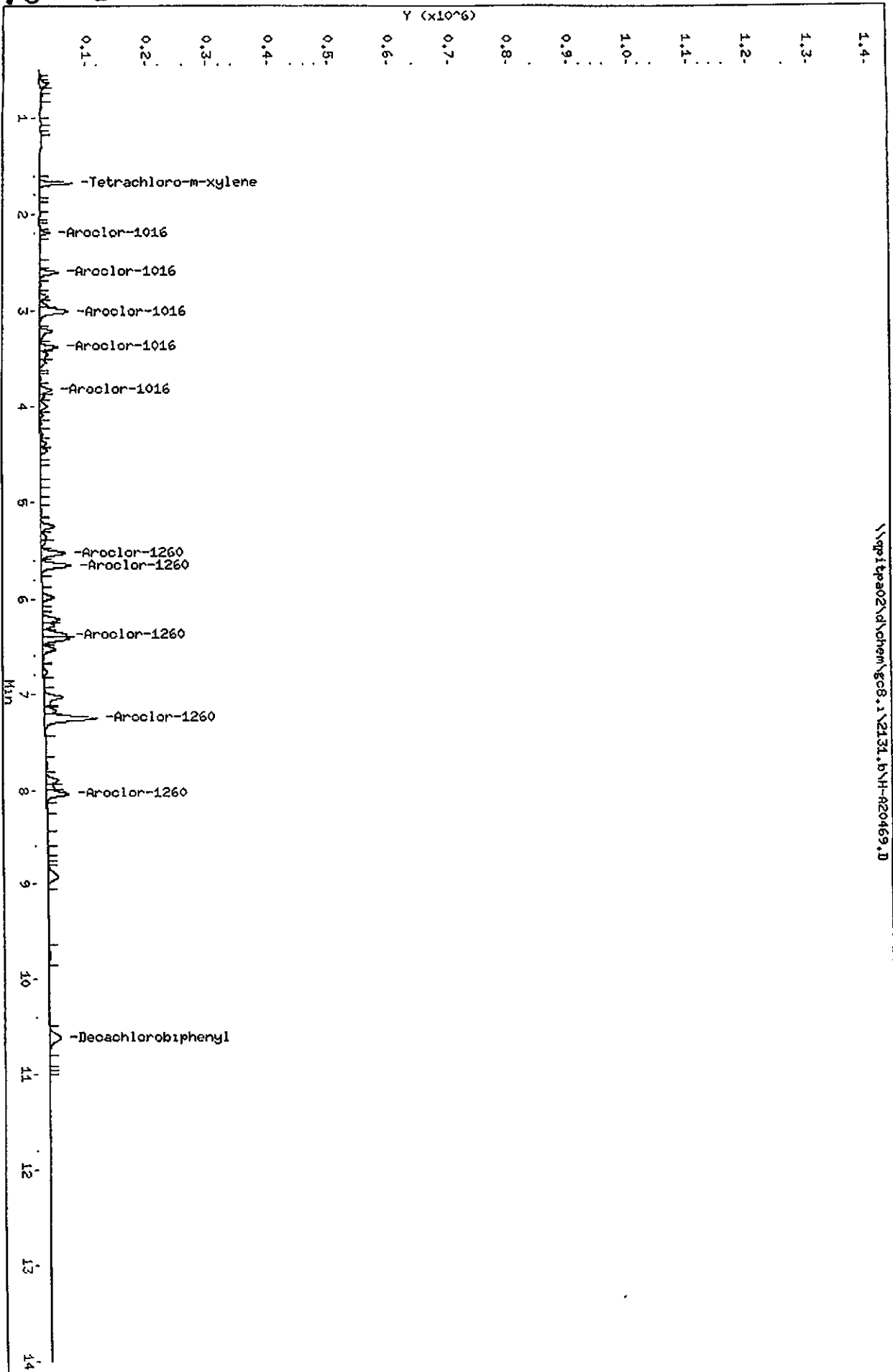
Page 2

QC Flag Legend

M - Compound response manually integrated.

Data File: \\spitpa02\chem\gc8.1\2131.b\H-820469.D
Date: 13-MAR-2001 11:22
Client ID:
Sample Info: L1660,2131.b
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53



Data File Name H-A20469 D

Inj. Date and Time 13-MAR-2001 11:22

Instrument ID. gc8 i

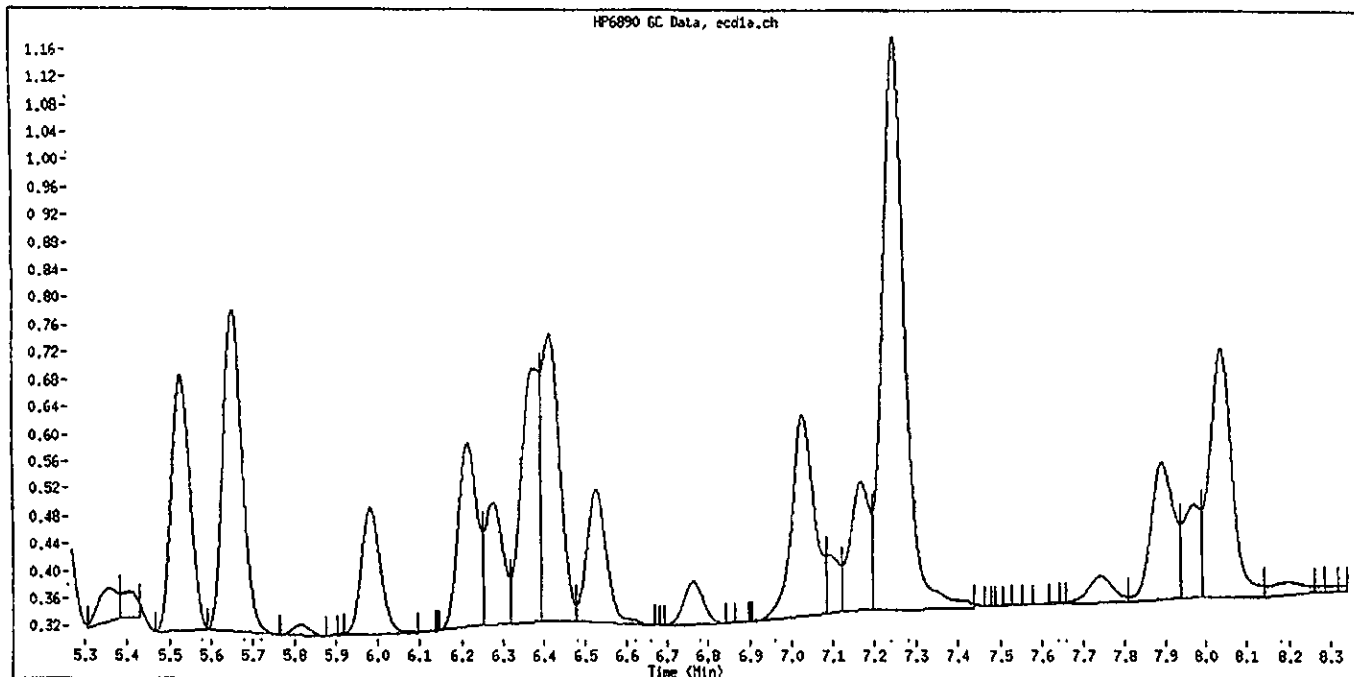
Client ID

Compound Name Aroclor-1260

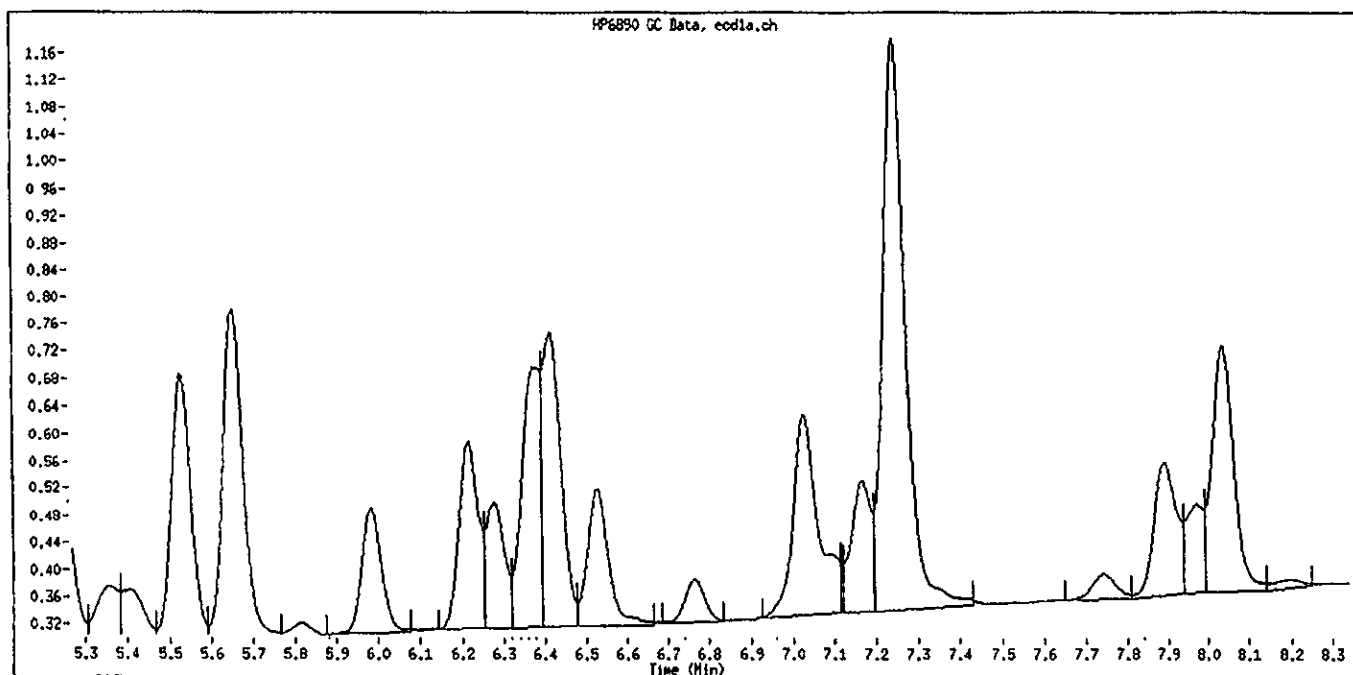
CAS # 11096-82-5

Report Date 03/13/2001

678 475



Original Integration



Manual Integration

Manually Integrated By EppingerD

Manual Integration Reason: Poor Chromatography

673 476

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20470.D
 Report Date: 13-Mar-2001 13:42

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20470.D
 Lab Smp Id: ML1660
 Inj Date : 13-MAR-2001 11:42
 Operator : 010139 Inst ID: gc8.i
 Smp Info : ML1660,2131.b
 Misc Info : 190-111-12
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 13:42 eppingerd Quant Type: ESTD
 Cal Date : 13-MAR-2001 11:42 Cal File: H-A20470.D
 Als bottle: 8 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1-1660.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	RESPONSE (ng)	(ng)	=====	=====
20 Aroclor-1016				CAS #	12674-11-2	
2 191	2 191	(0 000)	30773 0 20000	0 19656	0 00- 0 00	0 00
2 603	2.602	(0 001)	58684 0 20000	0.19210	80 00- 120.00	0 00
3.012	3.011	(0 001)	90377 0.20000	0.19449	203 51- 243.51	0 00
3 383	3.382	(0 001)	55878 0.20000	0.19314	203.51- 243.51	0.00
3 823	3.822	(0.001)	36503 0 20000	0.19413	297 56- 337.56	0.00
Average of Peak Amounts =				0.19409		

\$ 1 Tetrachloro-m-xylene				CAS #	877-09-8	
1 681	1 680	(0 001)	105017 0 01000	0.010087		

\$ 34 Decachlorobiphenyl				CAS #.	2051-24-3	
10 623	10 614	(0 009)	34182 0 01000	0.0099167		

36 Aroclor-1260				CAS #:	11096-82-5	
5 530	5 528	(0.002)	72643 0.20000	0 19286	0.00- 0.00	0 00(M)
5 654	5 653	(0 001)	91669 0 20000	0 19504	95 86- 135.86	0 00
6 377	6 378	(-0 001)	72659 0 20000	0.19519	116 91- 156 91	0.00
7 249	7.247	(0 002)	163572 0 20000	0 19731	120.00- 160.00	0 00
8 038	8 040	(-0 002)	70125 0 20000	0 19750	108 33- 148 33	0.00
Average of Peak Amounts =				0.19558		

673

477

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20470.D
Report Date: 13-Mar-2001 13:42

Page 2

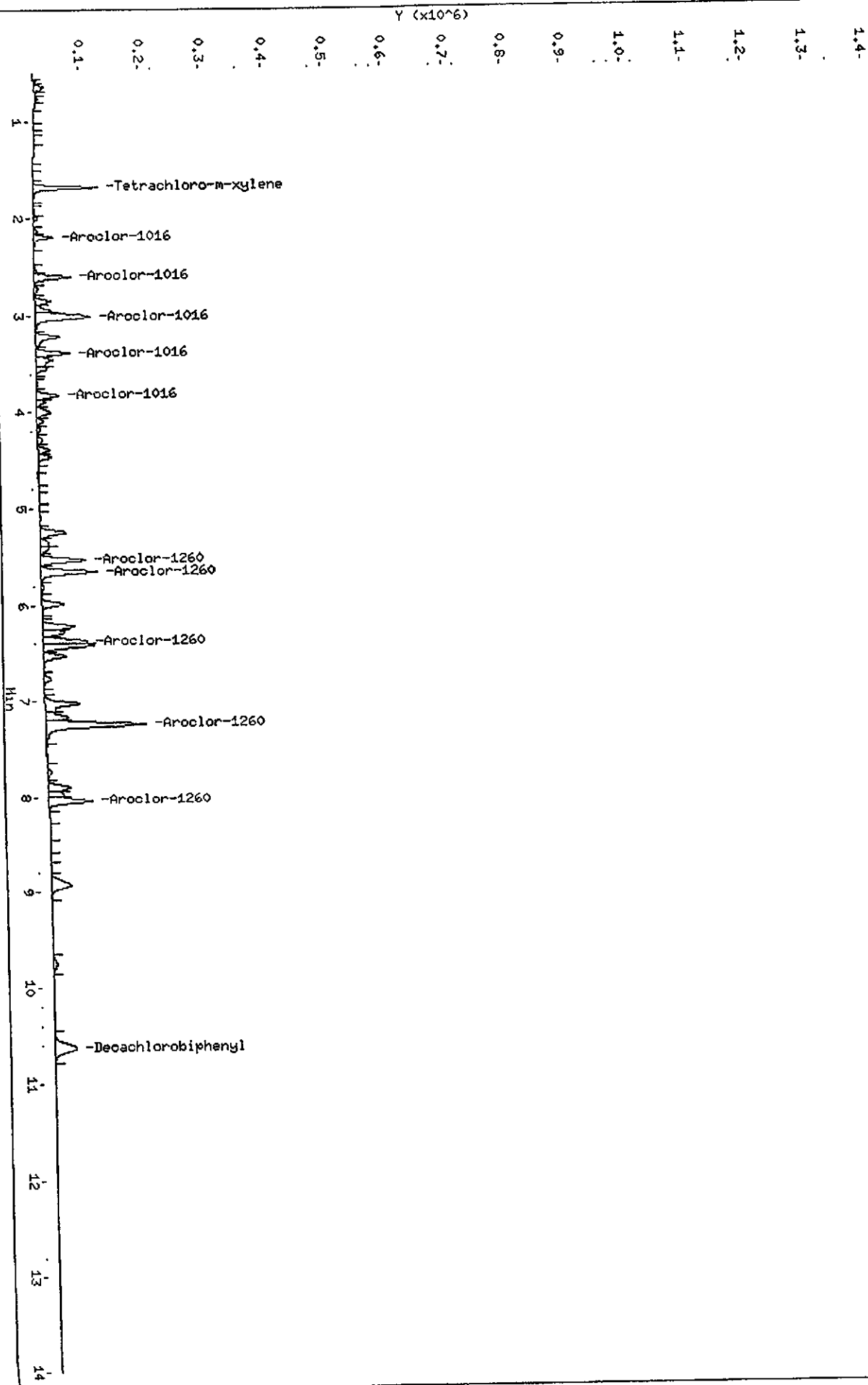
QC Flag Legend

M - Compound response manually integrated.

678 473

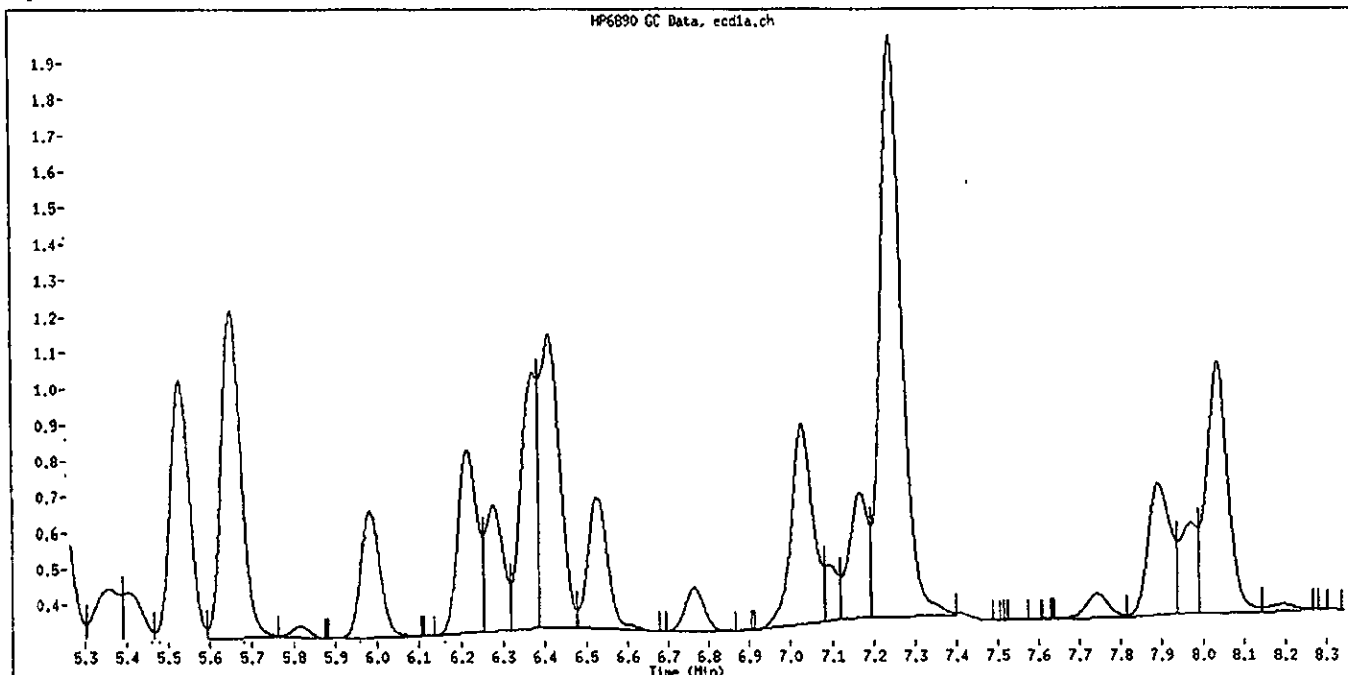
Data File: \\qritpa02\chem\gc8.1\2131.b\H-A20470.D
 Date: 13-MAR-2001 11:42
 Client ID:
 Sample Info: HL1660/2131.b
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53

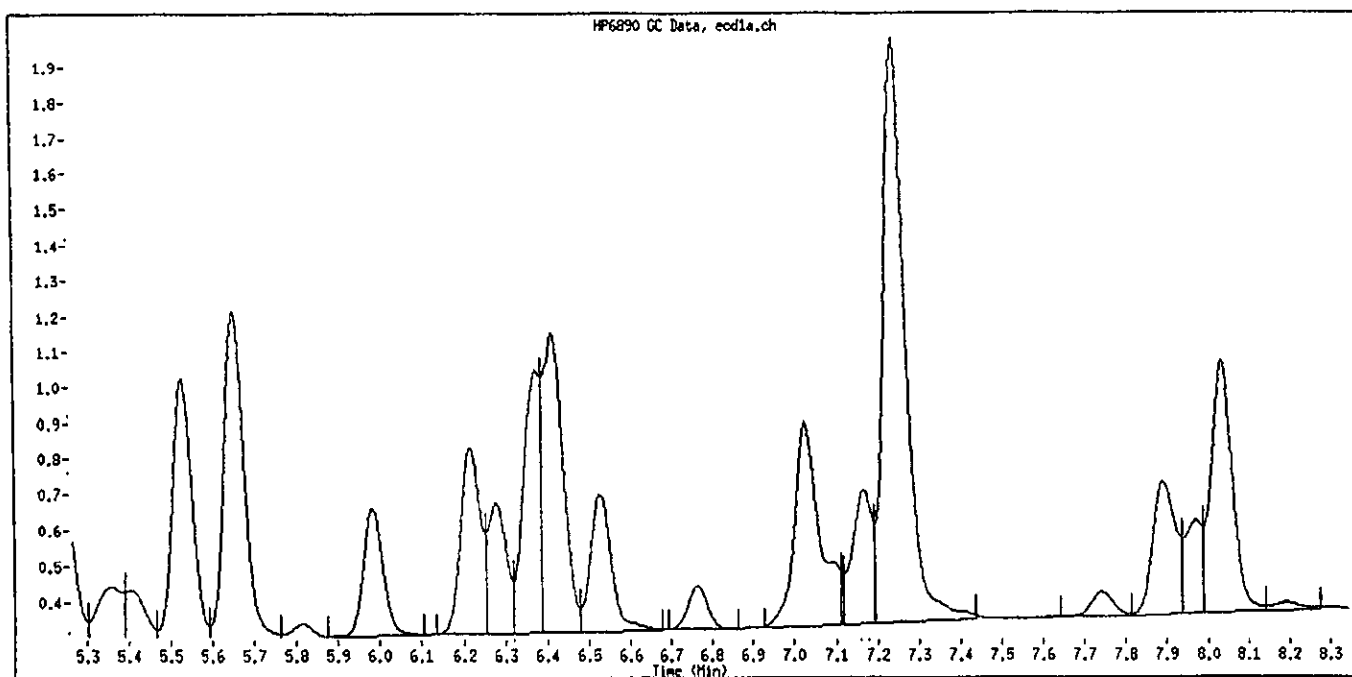


Data File Name H A20470 D
Inj Date and Time 13-MAR-2001 11:42
Instrument ID gc8 1
Client ID
Compound Name Aroclor-1260
CAS # 11096-82-5
Report Date 03/13/2001

678 479



Original Integration



Manual Integration

Manually Integrated By EppingerD
Manual Integration Reason: Poor Chromatography

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20471.D
 Lab Smp Id: M1660
 Inj Date : 13-MAR-2001 12:01
 Operator : 010139
 Smp Info : M1660,2131.b
 Misc Info : 190-111-13
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 13:42 eppingerd Quant Type: ESTD
 Cal Date : 13-MAR-2001 12:01 Cal File: H-A20471.D
 Als bottle: 9 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1-1660.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO
..						
20 Aroclor-1016				CAS #	12674-11-2	
2 191	2 191	(0 000)	73824 0 50000	0 48066	0 00- 0 00	0 00
2 602	2 602	(0 000)	141620 0 50000	0.47513	80 00- 120 00	0.00
3 011	3 011	(0 000)	223451 0.50000	0 48708	203 51- 243 51	0.00
3 382	3 382	(0 000)	135131 0.50000	0 47756	203 51- 243 51	0.00
3 822	3.822	(0 000)	89092 0.50000	0.48223	297 56- 337 56	0.00
Average of Peak Amounts =				0.48053		

\$ 1 Tetrachloro-m-xylene				CAS #:	877-09-8	
1 680	1 680	(0 000)	264701 0 02500	0.024870		

\$ 34 Decachlorobiphenyl				CAS #:	2051-24-3	
10 614	10 614	(0.000)	89176 0 02500	0.025417		

36 Aroclor-1260				CAS #:	11096-82-5	
5 528	5 528	(0.000)	178524 0 50000	0.48234	0.00- 0.00	0.00 (M)
5 653	5 653	(0 000)	232268 0 50000	0.49610	95.86- 135.86	0.00
6 378	6 378	(0 000)	185421 0.50000	0.49874	116 91- 156 91	0.00
7 247	7 247	(0 000)	417613 0 50000	0 50249	120 00- 160 00	0.00
8 040	8 040	(0 000)	179281 0.50000	0 50327	108 33- 148 33	0.00
Average of Peak Amounts =				0 49659		

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20471.D
Report Date: 13-Mar-2001 13:43

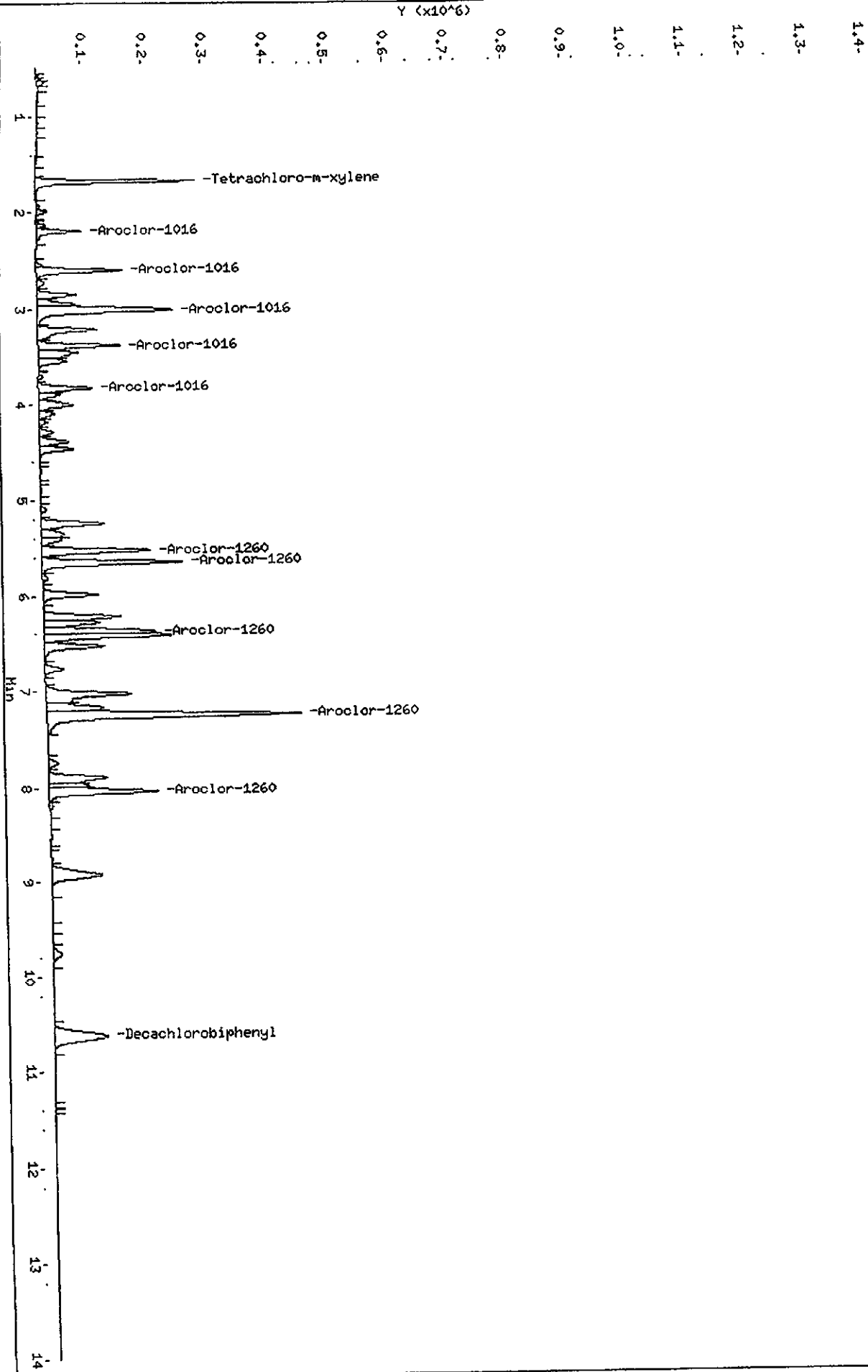
QC Flag Legend

M - Compound response manually integrated.

Data File: \\pp1tpa02\chem\gc8.i\2131.b\H-A20471.D
 Date: 13-MAR-2001 12:01
 Client ID:
 Sample Info: H1660,2131.b
 Column phase: DB608

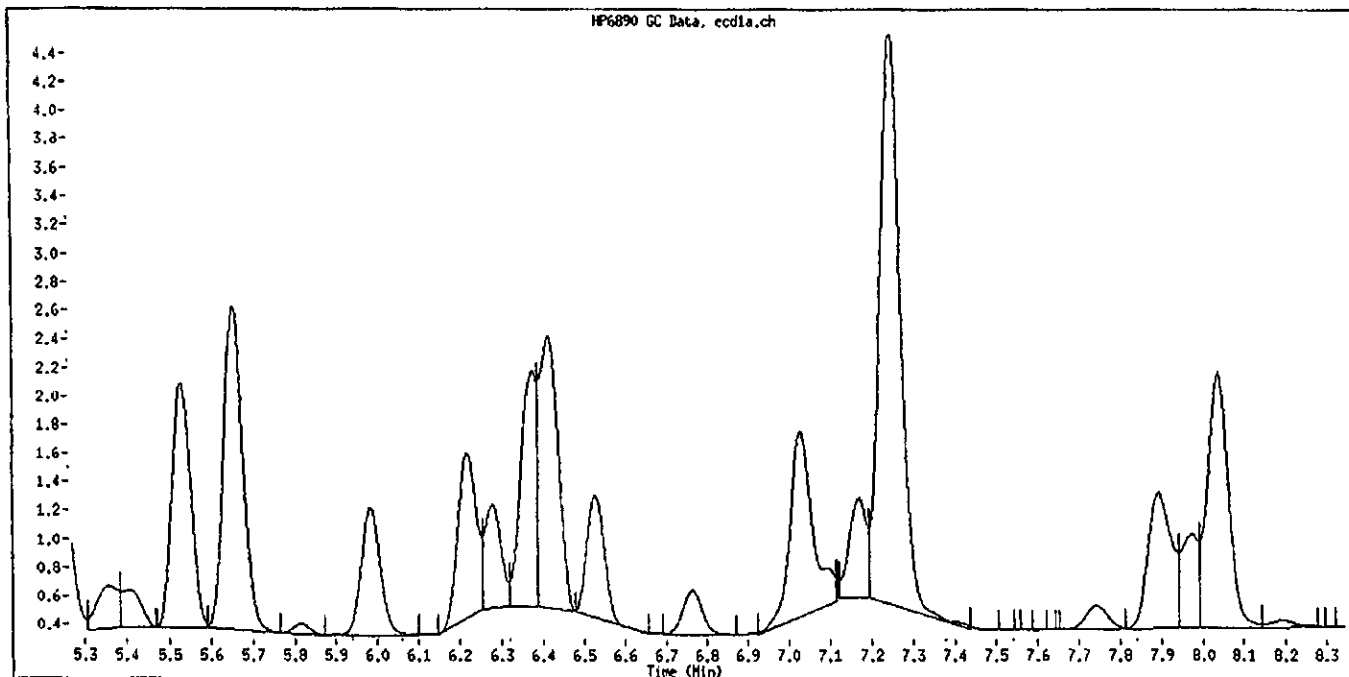
Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc8.i\2131.b\H-A20471.D

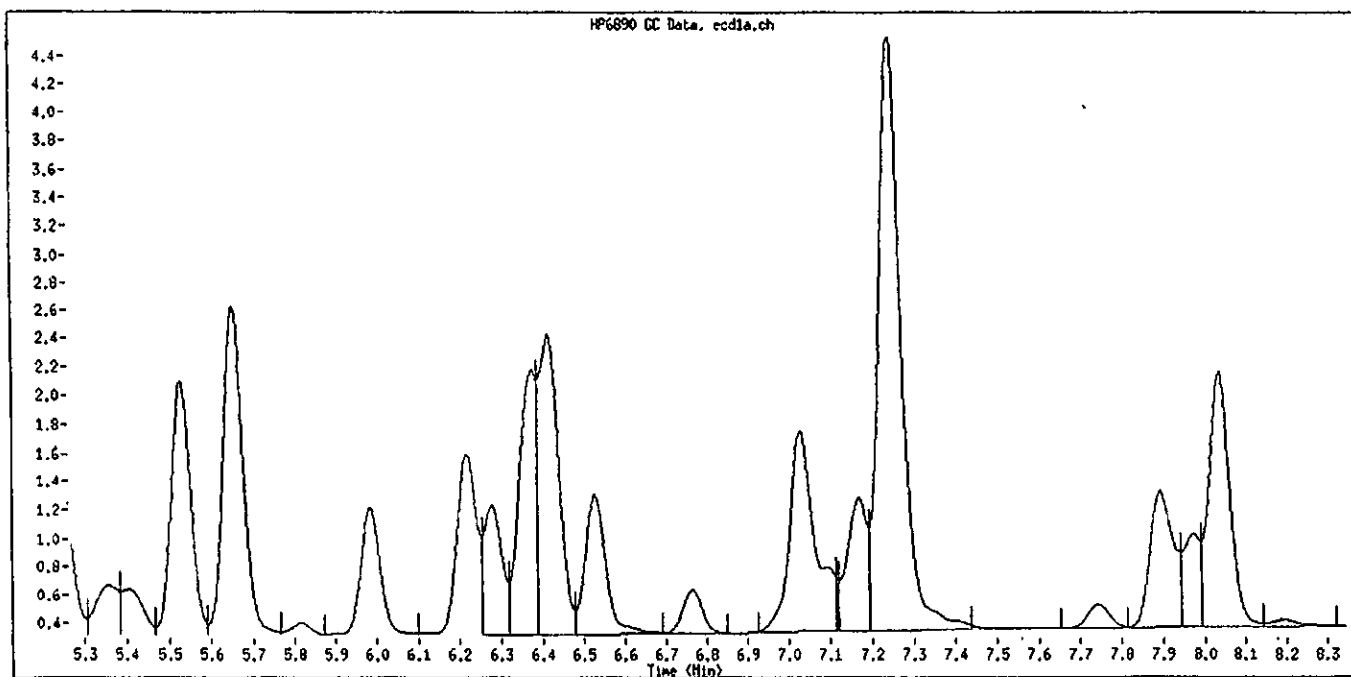


Data File Name: H-A20471.D
Inj Date and Time 13-MAR-2001 12 01
Instrument ID gc8 i
Client ID
Compound Name Aroclor-1260
CAS # 11096-82-5
Report Date 03/13/2001

678 483



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason: Poor Chromatography

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20472.D
 Lab Smp Id: MH1660
 Inj Date : 13-MAR-2001 12:21
 Operator : 010139
 Smp Info : MH1660,2131.b
 Misc Info : 190-111-14
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 13:43 eppingerd Quant Type: ESTD
 Cal Date : 13-MAR-2001 12:21 Cal File: H-A20472.D
 Als bottle: 10 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1-1660.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS						
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE RATIO
==	=====	=====	=====	=====	=====	=====
20 Aroclor-1016					CAS #	12674-11-2
2 191	2.191	(0.000)	140829	1 00000	0.93638	0 00- 0 00 0.00
2 604	2.602	(0.002)	265200	1 00000	0.91496	80 00- 120 00 0.00
3 011	3.011	(0.000)	424677	1.00000	0.94323	203 51- 243 51 0.00
3 382	3.382	(0.000)	263842	1 00000	0.94845	203 51- 243.51 0.00
3 823	3.822	(0.001)	170535	1.00000	0.94116	297 56- 337.56 0.00
Average of Peak Amounts =					0.93684	

\$ 1 Tetrachloro-m-xylene					CAS #:	877-09-8
1 681	1.680	(0.001)	512441	0 05000	0.048597	

\$ 34 Decachlorobiphenyl					CAS #	2051-24-3
10.620	10.614	(0.006)	172155	0 05000	0.049297	

36 Aroclor-1260					CAS #	11096-82-5
5 531	5.528	(0.003)	341968	1 00000	0.94184	0.00- 0.00 0.00
5 656	5.653	(0.003)	450949	1.00000	0.97213	95 86- 135.86 0.00
6 376	6.378	(-0.002)	359174	1.00000	0.97436	116 91- 156.91 0.00
7 250	7.247	(0.003)	817338	1.00000	0.98754	120.00- 160.00 0.00
8 040	8.040	(0.000)	356171	1 00000	0.99987	108.33- 148.33 0.00
Average of Peak Amounts =					0.97515	

Data File: \\p1tpa02\chem\gc8.1\2131.b\H-A20472.D

Date: 13-MAR-2001 12:21

Client ID:

Sample Info: MH1660, 2131.b

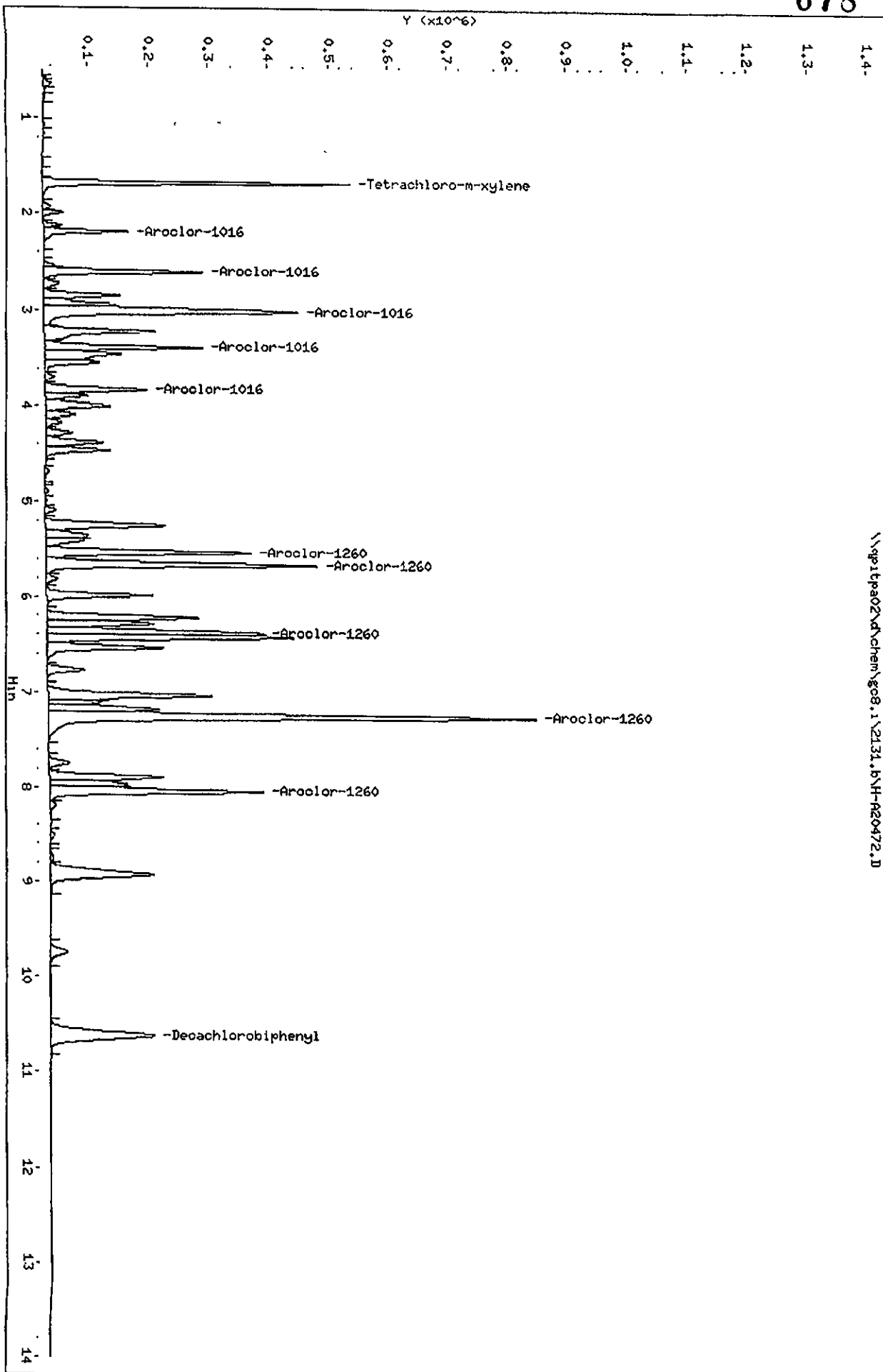
Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

\\p1tpa02\chem\gc8.1\2131.b\H-A20472.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20473.D

Lab Smp Id: H16608

Inj Date : 13-MAR-2001 12:41

Operator : 010139

Inst ID: gc8.i

Smp Info : H16608,2131.b

Misc Info : 190-112-1

Comment : 8082 PCB ANALYSIS

Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m

Meth Date : 13-Mar-2001 13:43 eppingerd Quant Type: ESTD

Cal Date : 13-MAR-2001 12:41 Cal File: H-A20473.D

Als bottle: 11 Calibration Sample, Level: 5

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1-1660.sub

Target Version: 4.04

Sample Matrix: None

Processing Host: PITPC061

AMOUNTS

RT	EXP RT	DLT RT	RESPONSE (	ng)	CAL-AMT (	ng)	ON-COL (	ng)	TARGET RANGE	RATIO	
20	Aroclor-1016								CAS #. 12674-11-2		
2 191	2 191	(0 000)	262647	2 00000	1 7918	0 00-	0.00		0 00		
2 604	2 602	(0.002)	494943	2 00000	1 7590	80 00-	120.00		0 00		
3 012	3 011	(0 001)	810025	2 00000	1 8360	203 51-	243 51		0 00		
3.384	3.382	(0.002)	496758	2 00000	1 8248	203 51-	243 51		0 00		
3 823	3 822	(0 001)	327194	2 00000	1 8415	297.56-	337 56		0.00		
Average of Peak Amounts =					1.8106						

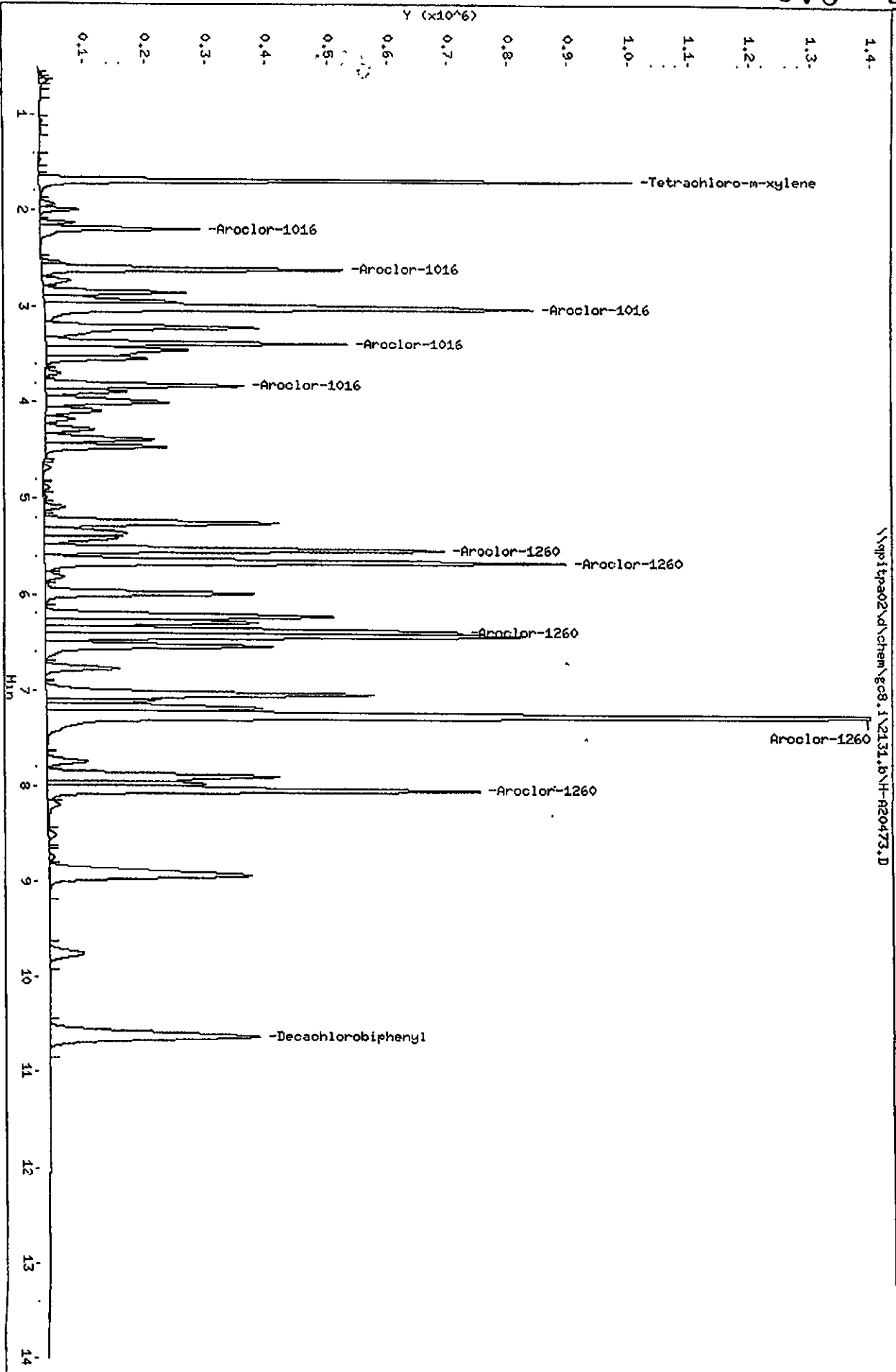
\$ 1	Tetrachloro-m-xylene								CAS # 877-09-8		
1 681	1 680	(0 001)	982058	0 10000	0.094429						

\$ 34	Decachlorobiphenyl								CAS # 2051-24-3		
10.616	10 614	(0.002)	347298	0 10000	0 099560						

36	Aroclor-1260								CAS #: 11096-82-5		
5 531	5.528	(0.003)	660571	2 00000	1 8528	0.00-	0.00		0 00		
5.655	5 653	(0 002)	863817	2 00000	1 8882	95 86-	135.86		0.00		
6 380	6 378	(0 002)	689170	2 00000	1.8943	116 91-	156.91		0.00		
7 251	7 247	(0 004)	1636046	2.00000	1 9813	120 00-	160 00		0 00		
8 041	8 040	(0 001)	715914	2.00000	2.0078	108 33-	148.33		0.00		
Average of Peak Amounts =					1 9249						

Data File: \\pp1tpa02\chem\gc8.1\2131.b\H-A20473.D
 Date: 13-MAR-2001 12:41
 Client ID:
 Sample Info: H16608/2131.b
 Column phase: DB608

Instrument: GC8.1
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20474.D
 Report Date: 13-Mar-2001 13:44

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20474.D
 Lab Smp Id: XH1660
 Inj Date : 13-MAR-2001 13:01
 Operator : 010139
 Smp Info : XH1660,2131.b
 Misc Info : 190-112-2
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 13:44 eppingerd Quant Type: ESTD
 Cal Date : 13-MAR-2001 13:01 Cal File: H-A20474.D
 Als bottle: 12 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1-1660.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016					CAS #: 12674-11-2			
2 190	2 191	(-0.001)	481584	4.00000	3 3862	0 00-	0 00	0 00
2 604	2 602	(0.002)	929448	4.00000	3 4020	80 00-	120 00	0 00
3 011	3.011	(0.000)	1552187	4.00000	3 5902	203 51-	243.51	0 00
3 381	3 382	(-0.001)	951189	4.00000	3.5694	203 51-	243 51	0 00
3 824	3 822	(0.002)	623835	4.00000	3 5841	297 56-	337 56	0.00
Average of Peak Amounts =					3.5064			

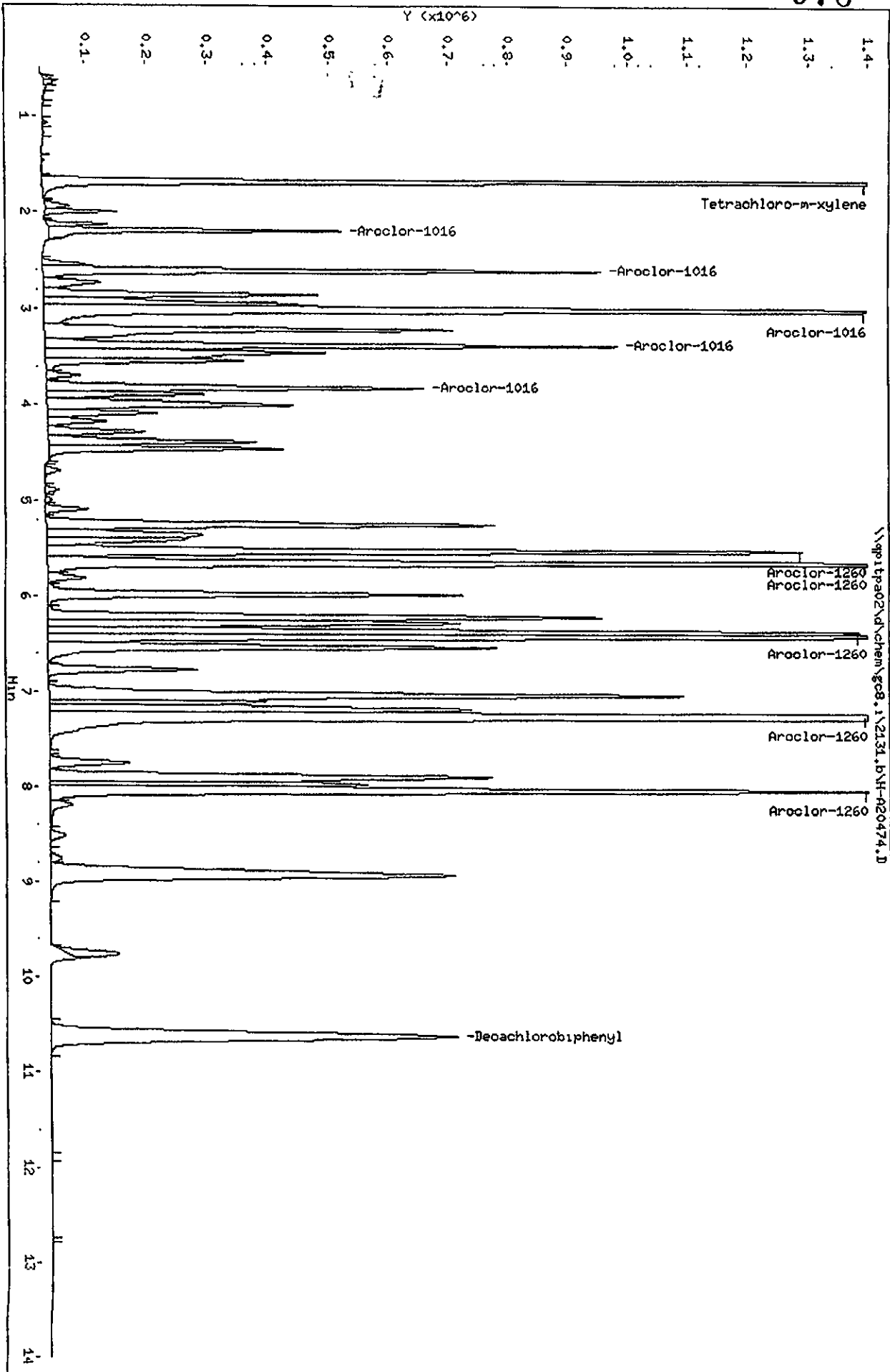
\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
1 680	1 680	(0.000)	1851787	0 20000	0.18137			

\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3			
10 616	10.614	(0.002)	673271	0 20000	0.19414			

36 Aroclor-1260					CAS #: 11096-82-5			
5 530	5 528	(0.002)	1255863	4 00000	3.5940	0 00-	0 00	0.00
5 655	5 653	(0.002)	1682214	4 00000	3 7273	95 86-	135.86	0 00
6.375	6 378	(-0.003)	1349926	4 00000	3.7558	116 91-	156.91	0 00
7 249	7 247	(0.002)	3236478	4.00000	3.9327	120 00-	160.00	0.00
8 040	8 040	(0.000)	1384027	4 00000	3.9008	108 33-	148 33	0.00
Average of Peak Amounts =					3 7821			

Data File: \\qpltpa02\chem\gc8.i\2131.b\H-A20474.D
Date: 13-Mar-2001 13:01
Client ID:
Sample Info: KH4660,2131.b
Column phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53



678 499

Data File: \\gpitpa02\d\chem\gc8.i\2131.b\H-A20475.D
Report Date: 13-Mar-2001 14:51

Page 1

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc8.i\2131.b\H-A20475.D
Lab Smp Id: 2M2154
Inj Date : 13-MAR-2001 13:21
Operator : 010139
Smp Info : 2M2154,2131.b
Misc Info : 190-120-10
Comment : 8082 PCB ANALYSIS
Method : \\gpitpa02\d\chem\gc8.i\2131.b\PCBA.m
Meth Date : 13-Mar-2001 14:50 eppingerd
Cal Date : 13-MAR-2001 13:01
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20474.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				
1.467	1.465	(0.002)	34637	0.50000	0.51756 0.00- 0.00	0.00	
1.992	1.990	(0.002)	47071	0.50000	0.49160 116.57- 156.57	0.00	
2.192	2.190	(0.002)	94935	0.50000	0.51215 66.04- 106.04	0.00	
Average of Peak Amounts =			0.5071		1.47-D		

\$ 1 Tetrachloro-m-xylene			CAS # 877-09-8				
1.679	1.680	(-0.001)	10554	0.02500	0.0010337		

\$ 34 Decachlorobiphenyl			CAS #: 2051-24-3				
Compound Not Detected							

33 Aroclor-1254			CAS # 11097-69-1				
4.382	4.380	(0.002)	126594	0.50000	0.51471 0.00- 0.00	0.00	
4.458	4.458	(0.000)	155209	0.50000	0.51825 92.23- 132.23	0.00	
5.262	5.258	(0.004)	229174	0.50000	0.51003 77.40- 117.40	0.00	
5.438	5.436	(0.002)	168730	0.50000	0.52824 51.09- 91.09	0.00	
5.653	5.653	(0.000)	132152	0.50000	0.48016 65.01- 105.01	0.00	
Average of Peak Amounts =			0.51028		2.17-D		

2nd
SOURCE

673

491

Data File: \\pp1pao2\chem\gc8.1\2131.b\H-A20475.D

Date: 13-MAR-2001 13:21

Client ID:

Sample Info: 2M2154, 2131.b

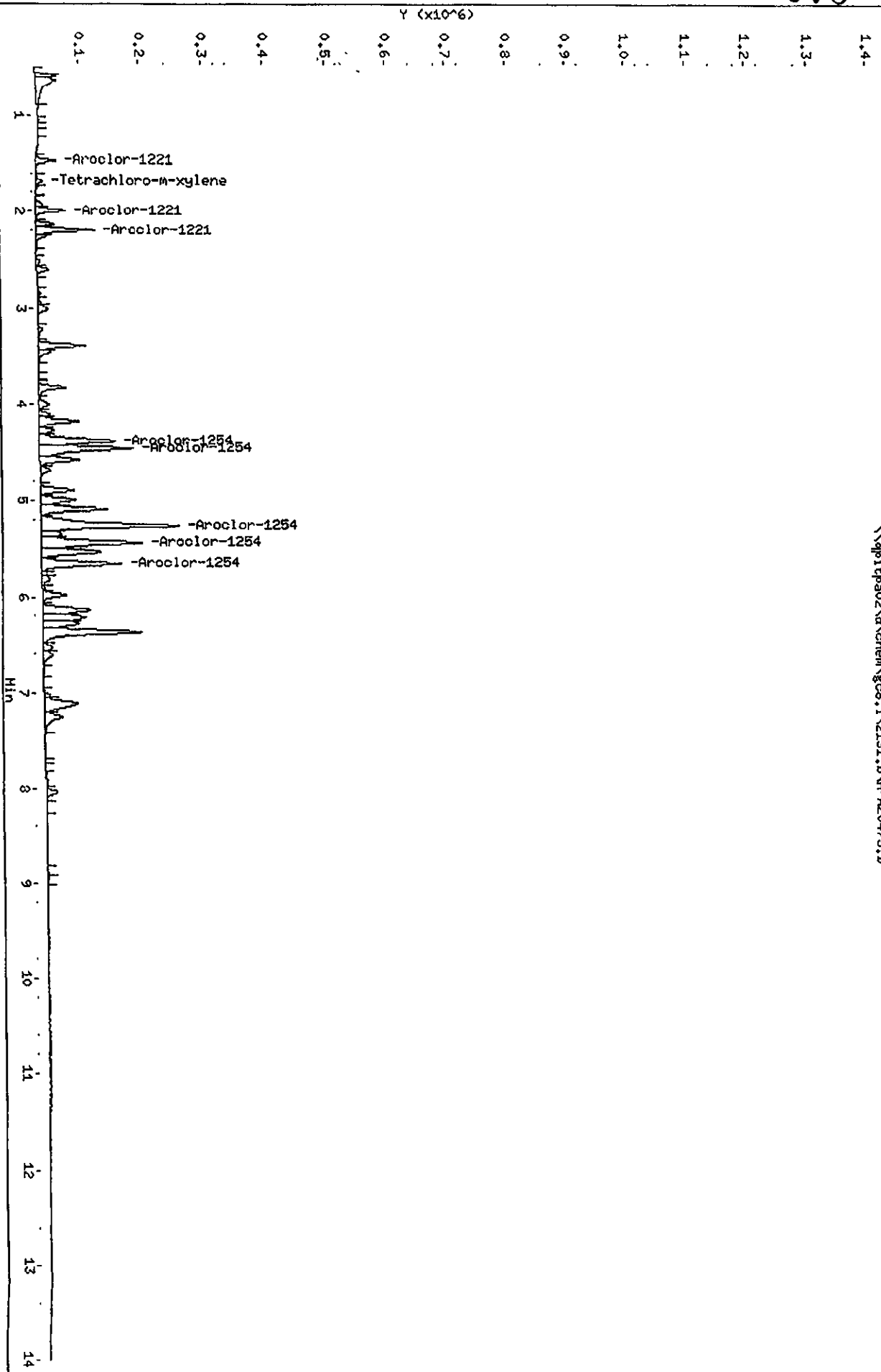
Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

\\pp1pao2\chem\gc8.1\2131.b\H-A20475.D



673 492

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20476.D
 Report Date: 13-Mar-2001 14:52

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20476.D
 Lab Smp Id: 2M1232
 Inj Date : 13-MAR-2001 13:41
 Operator : 010139
 Smp Info : 2M1232,2131.b
 Misc Info : 190-120-11
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 14:50 eppingerd
 Cal Date : 13-MAR-2001 13:01
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20474.D
 Continuing Calibration Sample
 Compound Sublist: 1232.sub
 Sample Matrix: None

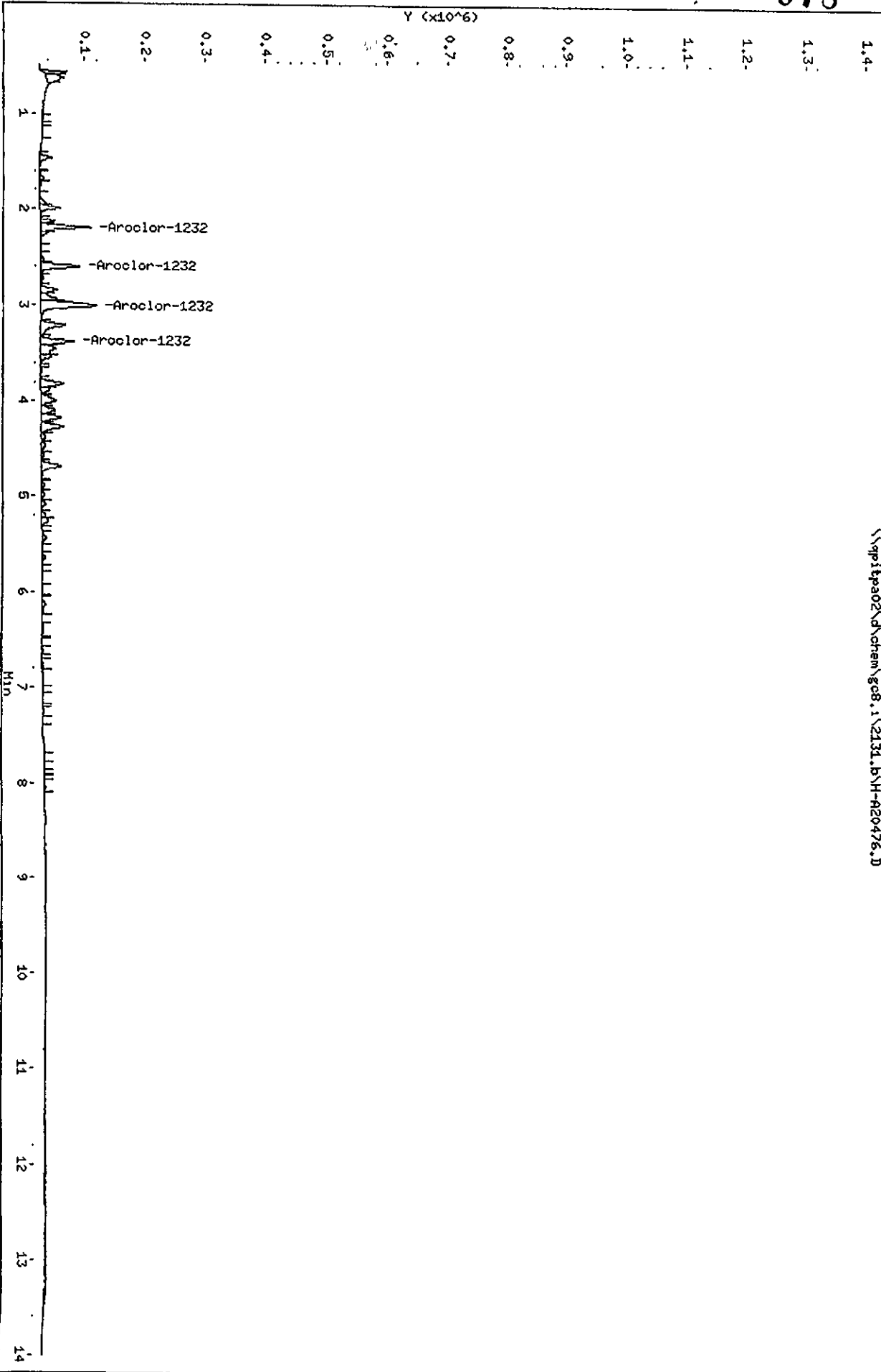
		AMOUNTS							
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT	ON-COL	TARGET RANGE	RATIO		
ng)			(	ng)	(				
14	Aroclor-1232				CAS #: 11141-16-5				
2 190	2 190	(0 000)	82995	0.50000	0 62473	0 00- 0 00	0 00		
2 603	2 603	(0 000)	65312	0.50000	0 54571	146 26- 186 26	0.00		
3 013	3 010	(0 003)	93520	0.50000	0 53679	65 99- 105 99	0.00		
3 381	3 381	(0 000)	55006	0 50000	0.47773	74 18- 114 18	0.00		
Average of Peak Amounts =			0 54624		9.29.D				

2nd
SOURCE

Data File: \\qpi\pao2\chem\gc8.1\2131.b-V-A20476.D
 Date: 13-MAR-2004 13:41
 Client ID:
 Sample Info: 2M1232,2131.b
 Column Phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53

\\qpi\pao2\chem\gc8.1\2131.b-V-A20476.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20477.D
 Lab Smp Id: 2M1242
 Inj Date : 13-MAR-2001 14:01
 Operator : 010139
 Smp Info : 2M1242,2131.b
 Misc Info : 190-120-12
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 14:50 eppingerd
 Cal Date : 13-MAR-2001 13:01
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20474.D
 Continuing Calibration Sample
 Compound Sublist: 1242.sub
 Sample Matrix: None

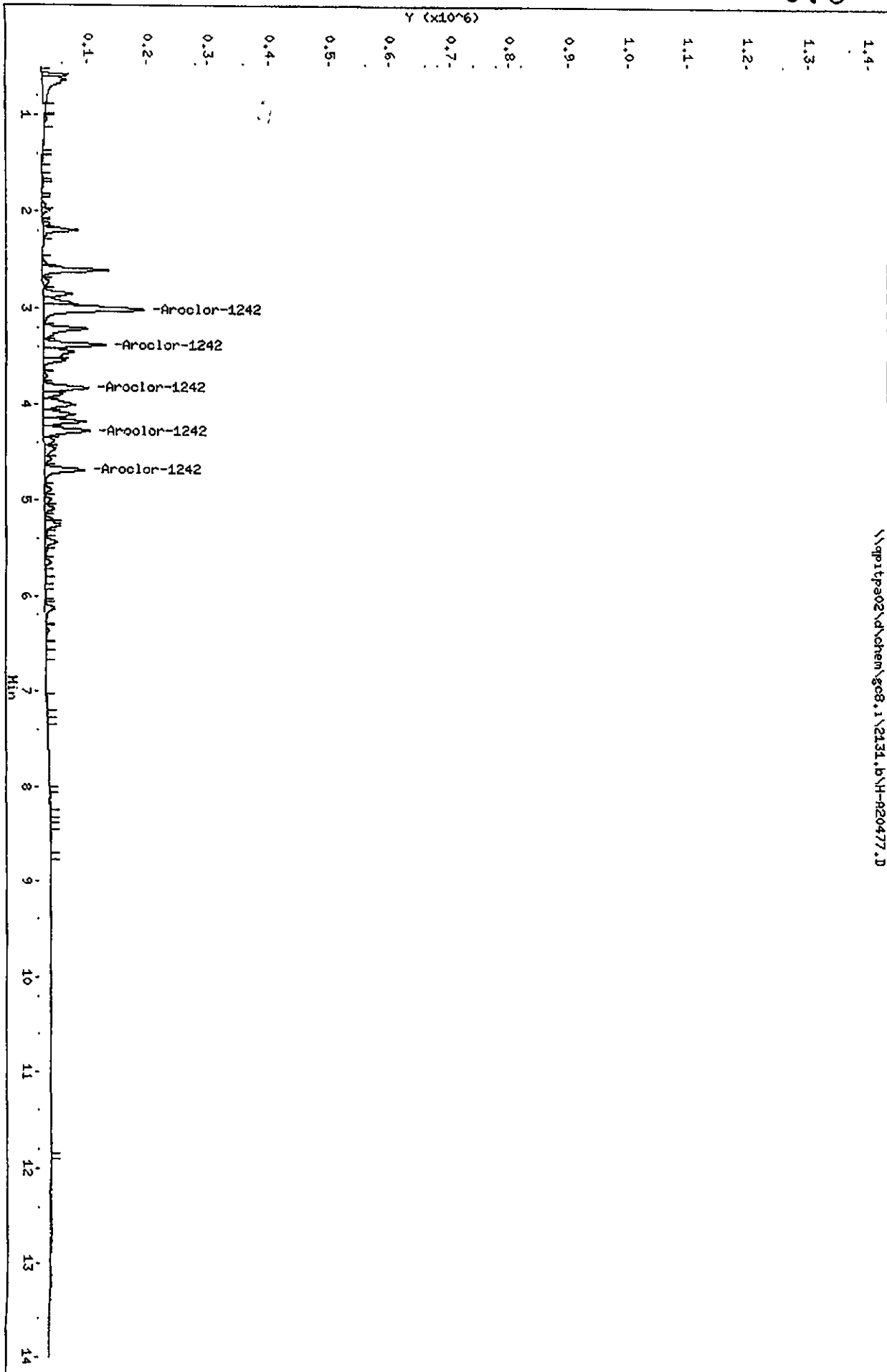
AMOUNTS						
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE RATIO
==	=====	=====	=====	=====	=====	=====
15 Aroclor-1242						
				CAS #	53469-21-9	
3.015	3.012	(0.003)	168438	0.50000	0.48247	0.00- 0.00 0.00
3.383	3.380	(0.003)	104972	0.50000	0.49626	310.13- 350.13 0.00
3.823	3.822	(0.001)	76040	0.50000	0.48914	749.70- 789.70 0.00
4.274	4.272	(0.002)	77601	0.50000	0.48681	512.48- 552.48 0.00
4.688	4.687	(0.001)	67452	0.50000	0.48720	314.30- 354.30 0.00
Average of Peak Amounts =				0.48837	2.37-D	

2nd
SOURCE

Data File: \\qp1tpa02\chem\gc8.1\2131.b\H-820477.D
Date: 13-MAR-2001 14:01
Client ID:
Sample Info: 2M1242,2131.b
Column Phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\qp1tpa02\chem\gc8.1\2131.b\H-820477.D



673 496

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20478.D
 Report Date: 13-Mar-2001 14:52

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20478.D
 Lab Smp Id: 2M1248
 Inj Date : 13-MAR-2001 14:20
 Operator : 010139
 Smp Info : 2M1248,2131.b
 Misc Info : 190-120-13
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 14:50 eppingerd
 Cal Date : 13-MAR-2001 13:01
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20474.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
		*****		*****		*****	
21 Aroclor-1248			CAS #: 12672-29-6				
3.384	3 382	(0 002)	121742	0.50000	0 53425	0.00-	0 00
3.825	3 823	(0.002)	118815	0 50000	0.54682	114.57-	154.57
4.173	4.173	(0.000)	130534	0.50000	0.52163	63 67-	103.67
4 274	4 272	(0 002)	129215	0.50000	0.54461	43.86-	83.86
4 689	4.689	(0 000)	110260	0.50000	0 46734	128.08-	168.08
Average of Peak Amounts =			0.52293		4.67-D		

2nd
SOURCE

Data File: \\pp1tpa02\chem\gc8.i\2131.b\H-A20478.D

Date: 13-MAR-2001 14:20

Client ID:

Sample Info: 2H1248,2131.b

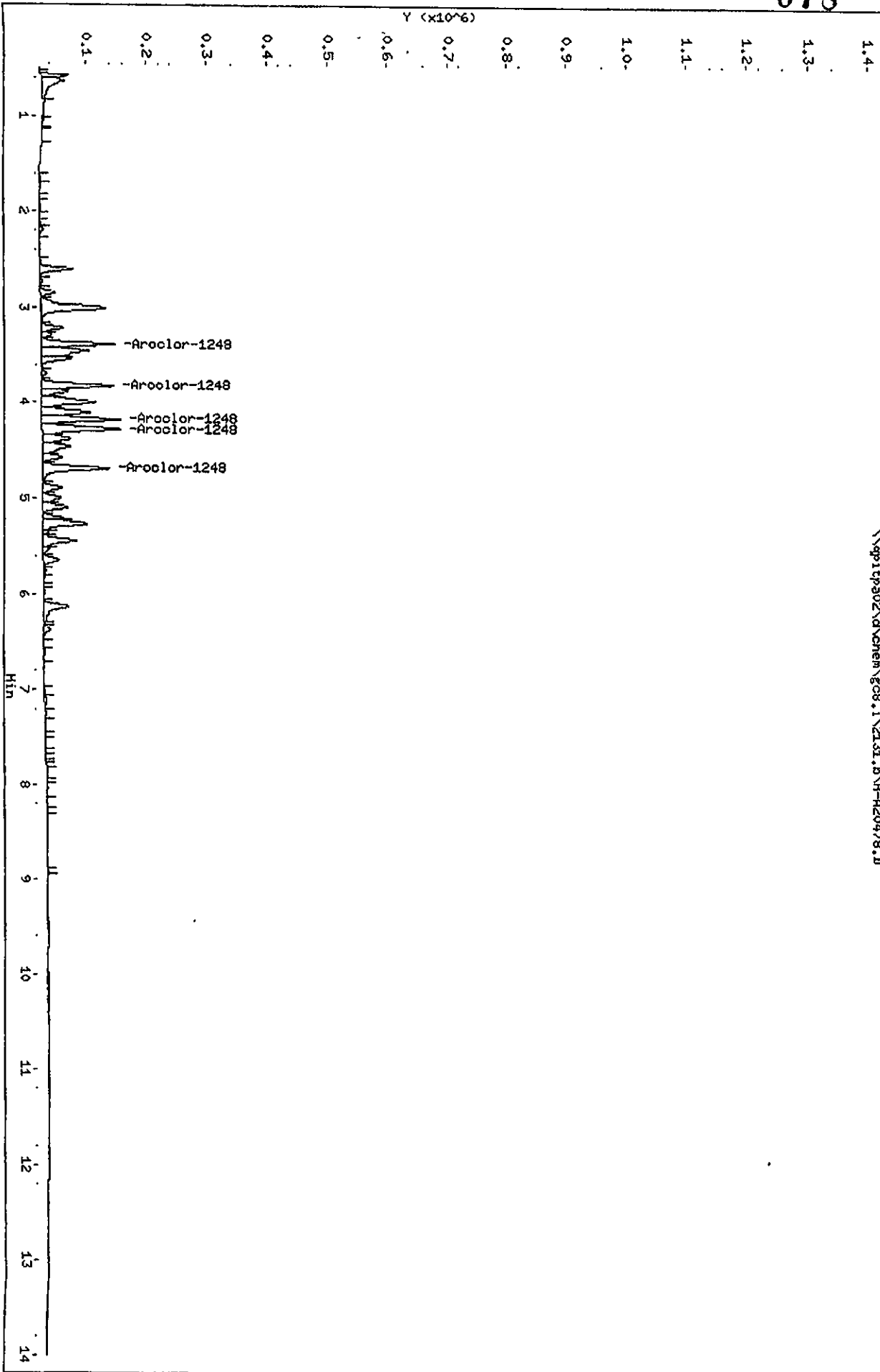
Column phase: DB608

Instrument: gc8.i

Operator: 010139

Column diameter: 0.53

\\pp1tpa02\chem\gc8.i\2131.b\H-A20478.D



673 498

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20479.D
 Report Date: 13-Mar-2001 15:23

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20479.D
 Lab Smp Id: 2M1660
 Inj Date : 13-MAR-2001 14:40
 Operator : 010139
 Smp Info : 2M1660,2131.b
 Misc Info : 190-120-14
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 13-Mar-2001 15:22 eppingerd Quant Type: ESTD
 Cal Date : 13-MAR-2001 13:01 Cal File: H-A20474.D
 Als bottle: 17 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Compound Sublist: 1660.sub
 Sample Matrix: None

AMOUNTS						
RT	EXP RT	DLT RT	CAL-AMT		ON-COL	RATIO
			RESPONSE (	ng)		
---	-----	-----	-----	-----	-----	-----
20 Aroclor-1016			CAS #: 12674-11-2			
2 191	2.191	(0.000)	72742	0.50000	0.51148 0.00- 0.00	0.00
2 605	2.602	(0.003)	141898	0.50000	0.51938 80.00- 120.00	0.00
3.013	3.011	(0.002)	223056	0.50000	0.51593 203 51- 243 51	0.00
3 382	3.382	(0.000)	138295	0.50000	0.51896 203 51- 243 51	0.00
3 825	3.822	(0.003)	89428	0.50000	0.51379 297 56- 337.56	0.00
Average of Peak Amounts =			0.51591 3.27.D			

\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8

Compound Not Detected

\$ 34 Decachlorobiphenyl CAS #: 2051-24-3
 10.615 10.614 (0.001) 1005 0.02500 0.00028979

36 Aroclor-1260			CAS #: 11096-82-5			
5 530	5.528	(0.002)	186426	0.50000	0.53351 0.00- 0.00	0.00
5 655	5.653	(0.002)	238107	0.50000	0.52757 95.86- 135.86	0.00
6 376	6.378	(-0.002)	201574	0.50000	0.56082 116.91- 156.91	0.00
7 248	7.247	(0.001)	392980	0.50000	0.47752 120.00- 160.00	0.00
8.041	8.040	(0.001)	175120	0.50000	0.49357 108 33- 148 33	0.00
Average of Peak Amounts =			0.5186 3.77.D			

2nd
SOURCE

Data File: \\ppitpa02\chem\gc8.i\2131.b\H-A20479.D
Date: 13-HAR-2001 14:40

Client ID:

Sample Info: 2M1660,2131.b

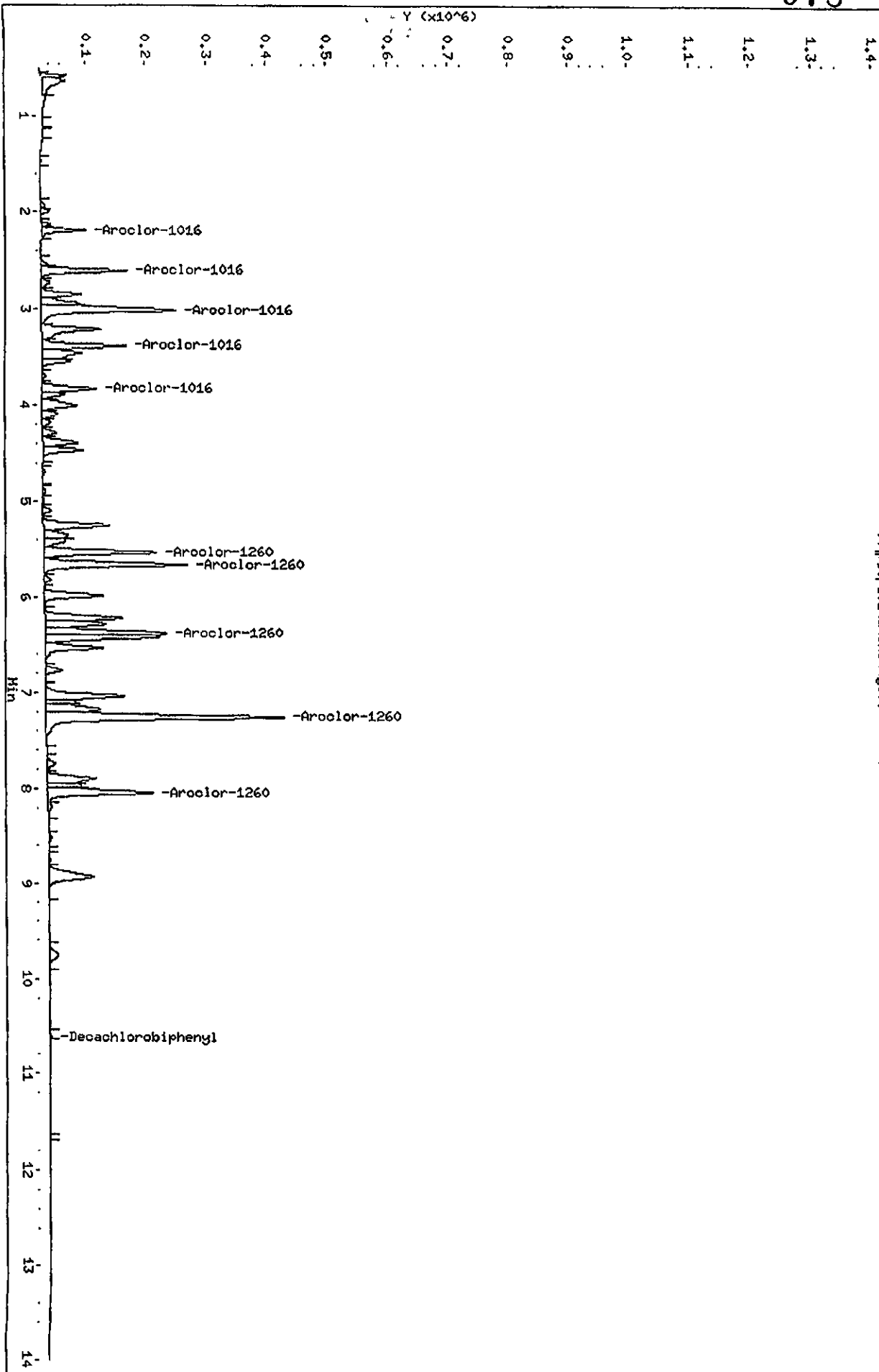
Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

\\ppitpa02\chem\gc8.i\2131.b\H-A20479.D



678 500

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20600.D
 Report Date: 19-Mar-2001 08:22

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20600.D
 Lab Smp Id: M1660
 Inj Date : 16-MAR-2001 18:29
 Operator : 010139
 Smp Info : M1660,2131.b
 Misc Info : 190-111-13
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 19-Mar-2001 08:21 matkol
 Cal Date : 13-MAR-2001 13:01
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC043

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20474.D
 Continuing Calibration Sample
 Compound Sublist: 1-1660.sub
 Sample Matrix: None

AMOUNTS							
			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016					CAS #. 12674-11-2		
2 189	2 191	(-0.002)	68372	0.50000	0.48075	0.00- 0.00	0.00
2.603	2 602	(0.001)	130841	0.50000	0.47891	80.00- 120.00	0.00
3.008	3.011	(-0.003)	210701	0.50000	0.48736	203.51- 243.51	0.00
3 380	3.382	(-0.002)	129157	0.50000	0.48467	203.51- 243.51	0.00
3.822	3 822	(0.000)	83300	0.50000	0.47858	297.56- 337.56	0.00
Average of Peak Amounts =					0.48205		

\$ 1 Tetrachloro-m-xylene					CAS # 877-09-8		
1 678	1 680	(-0.002)	241106	0.02500	0.023615		

\$ 14 Decachlorobiphenyl					CAS #: 2051-24-3		
10 612	10.614	(-0.002)	79642	0.02500	0.022965		

36 Aroclor-1260					CAS #: 11096-82-5		
5 528	5.528	(0.000)	168759	0.50000	0.48295	0.00- 0.00	0.00
5 651	5 653	(-0.002)	220354	0.50000	0.48824	95.86- 135.86	0.00
6 371	6 378	(-0.007)	169643	0.50000	0.47198	116.91- 156.91	0.00
7.245	7 247	(-0.002)	384080	0.50000	0.46670	120.00- 160.00	0.00
8 035	8.040	(-0.005)	159842	0.50000	0.45051	108.33- 148.33	0.00
Average of Peak Amounts =					0.47208		

Data File: \\pitt02\chem\gc8.1\2131.b\H-A20600.D

Date: 16-MAR-2001 18:29

Client ID:

Sample Info: M1660,2131.b

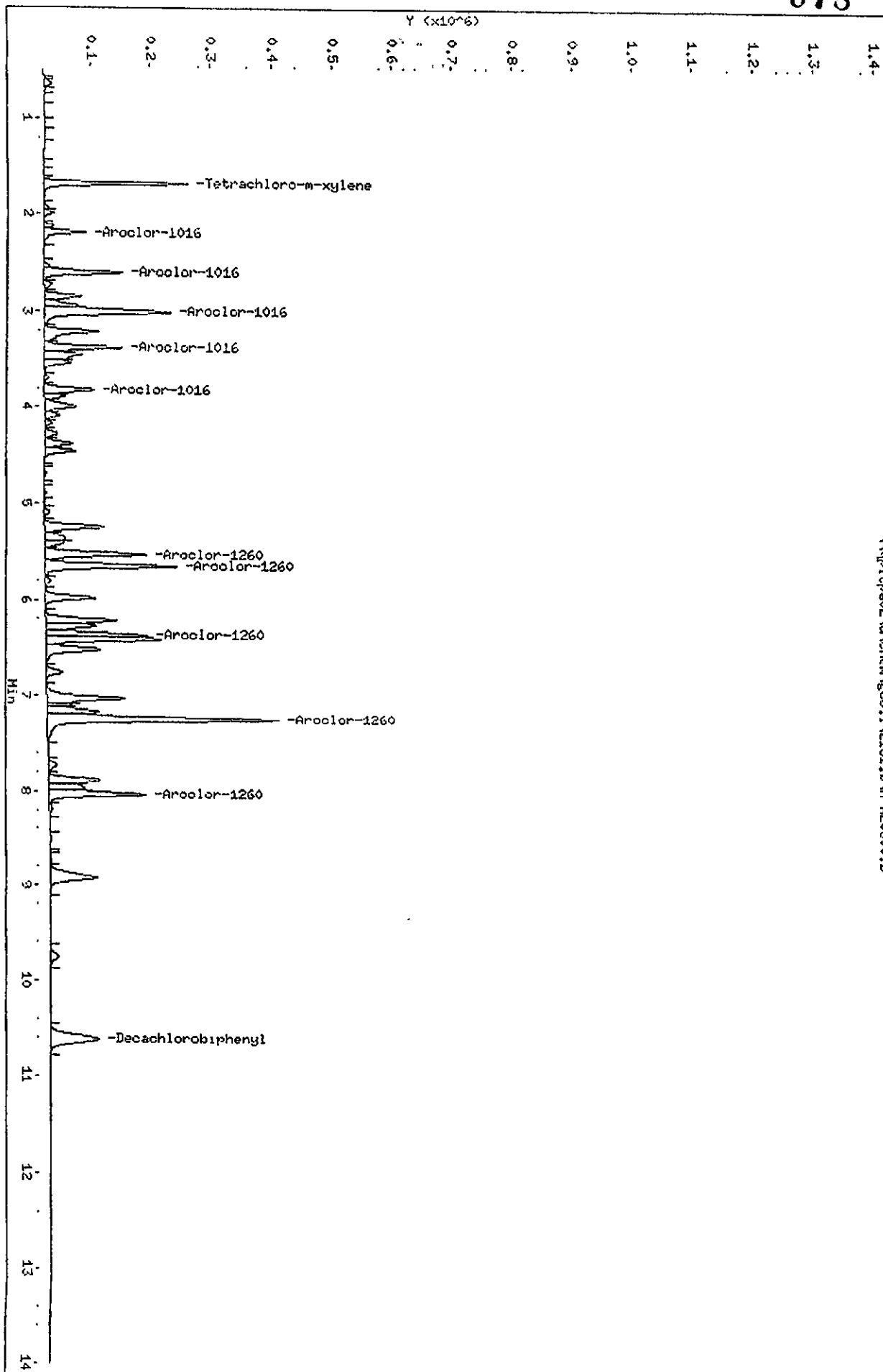
Column Phase: DB608

Instrument: gc8.i

Operator: 010139

Column diameter: 0.53

\\pitt02\chem\gc8.1\2131.b\H-A20600.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20608.D
 Lab Smp Id: M1660
 Inj Date : 16-MAR-2001 21:08
 Operator : 010139
 Smp Info : M1660,2131.b
 Misc Info : 190-111-13
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 19-Mar-2001 08:21 matkol
 Cal Date : 13-MAR-2001 13:01
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC044

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20474.D
 Continuing Calibration Sample
 Compound Sublist: 1-1660.sub
 Sample Matrix: None

AMOUNTS								
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016			CAS #: 12674-11-2					
2.189	2.191	(-0.002)	71468	0.50000	0.50252	0.00-	0.00	0.00
2.602	2.602	(0.000)	137857	0.50000	0.50459	80.00-	120.00	0.00
3.010	3.011	(-0.001)	212706	0.50000	0.49199	203.51-	243.51	0.00
3.380	3.382	(-0.002)	132426	0.50000	0.49694	203.51-	243.51	0.00
3.821	3.822	(-0.001)	86672	0.50000	0.49795	297.56-	337.56	0.00
Average of Peak Amounts =					0.4988			

5 1 Tetrachloro-m-xylene			CAS #: 877-09-8					
1.679	1.680	(-0.001)	256168	0.02500	0.025090			

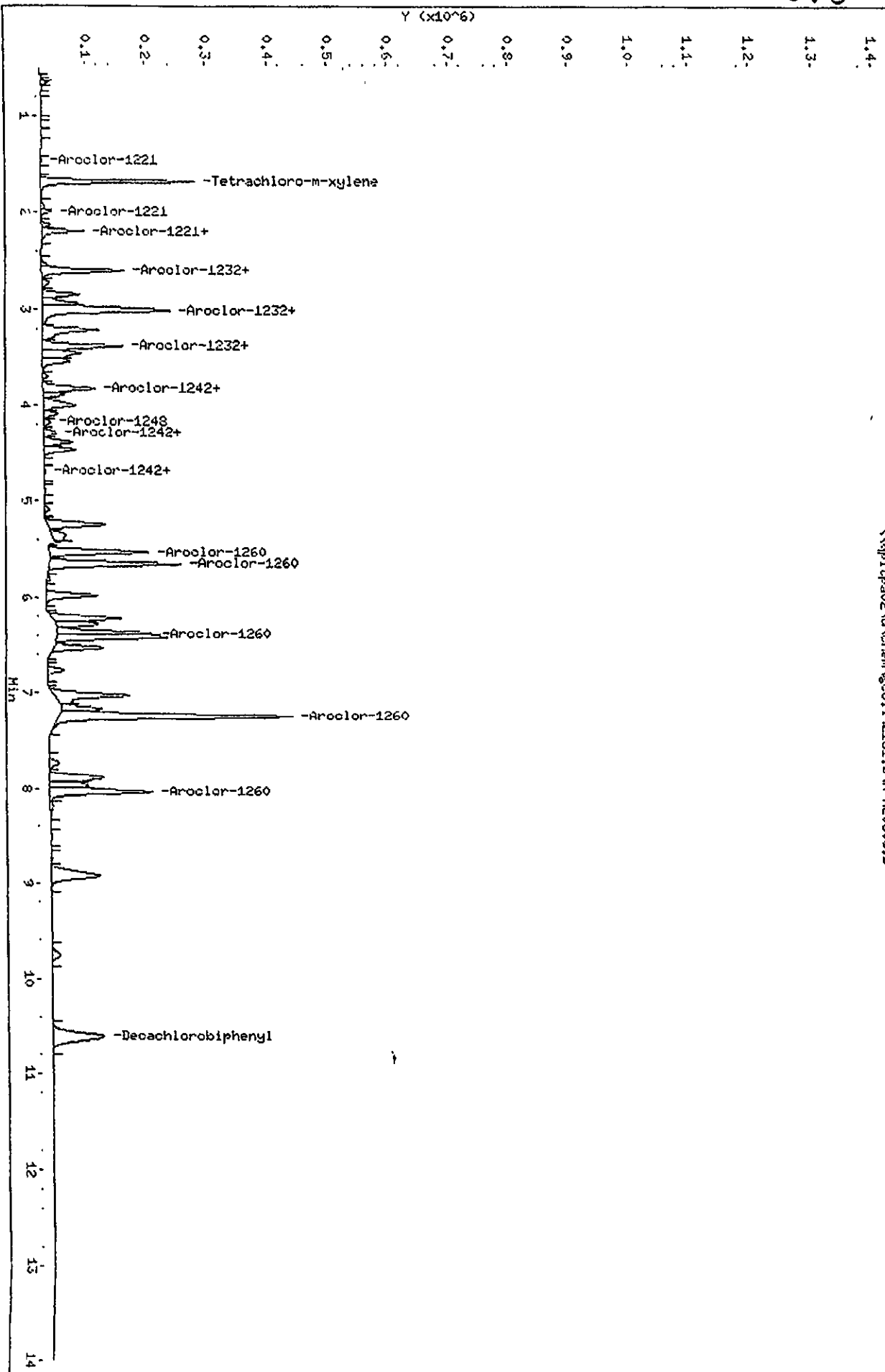
5 34 Decachlorobiphenyl			CAS #: 2051-24-3					
10.611	10.614	(-0.003)	84642	0.02500	0.024406			

36 Aroclor-1260			CAS #: 11096-82-5					
5.527	5.528	(-0.001)	165363	0.50000	0.47323	0.00-	0.00	0.00
5.651	5.653	(-0.002)	218720	0.50000	0.48462	95.86-	135.86	0.00
6.378	6.378	(0.000)	157986	0.50000	0.43955	116.91-	156.91	0.00
7.242	7.247	(-0.005)	384438	0.50000	0.46714	120.00-	160.00	0.00
8.037	8.040	(-0.003)	169695	0.50000	0.47828	108.33-	148.33	0.00
Average of Peak Amounts =					0.46856			

Data File: \\qpltpa02\chem\gc8.1\2131.b\H-620608.D
Date: 16-MAR-2001 21:08
Client ID:
Sample Info: H1660,2131.b
Column Phase: DB608

Instrument: gc8.i
Operator: Q10139
Column diameter: 0.53

\\qpltpa02\chem\gc8.1\2131.b\H-620608.D



673 504

6E
HP68908M
DB608

Report Date : 19-Mar-2001 14:45

Page 1

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAR-2001 11:24
 End Cal Date : 19-MAR-2001 14:21
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Cal Date : 19-Mar-2001 14:44 eppingerd
 Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20614.D
 Level 2: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20615.D
 Level 3: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20616.D
 Level 4: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20617.D
 Level 5: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20618.D
 Level 6: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20619.D

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	0.20000	RRF	% RSD	
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6				
51 Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
8 Aroclor-1221(1)	+++++	+++++	55116	+++++	+++++	+++++	55116	0.000	
(2)	+++++	+++++	79658	+++++	+++++	+++++	79658	0.000	
(3)	+++++	+++++	151900	+++++	+++++	+++++	151900	0.000	
14 Aroclor-1232(1)	+++++	+++++	106444	+++++	+++++	+++++	106444	0.000	
(2)	+++++	+++++	99772	+++++	+++++	+++++	99772	0.000	
(3)	+++++	+++++	143164	+++++	+++++	+++++	143164	0.000	
(4)	+++++	+++++	95088	+++++	+++++	+++++	95088	0.000	
15 Aroclor-1242(1)	+++++	+++++	291768	+++++	+++++	+++++	291768	0.000	
(2)	+++++	+++++	180686	+++++	+++++	+++++	180686	0.000	
(3)	+++++	+++++	133246	+++++	+++++	+++++	133246	0.000	
(4)	+++++	+++++	131412	+++++	+++++	+++++	131412	0.000	
(5)	+++++	+++++	113098	+++++	+++++	+++++	113098	0.000	
20 Aroclor-1016(1)	138320	134380	129528	122079	112943	110917	124695	9.056	
(2)	282180	261235	253654	234506	221306	212153	244172	10.785	
(3)	415770	392260	389352	370473	357229	348356	378907	6.593	
(4)	261040	244620	238266	230994	220860	217326	235518	6.868	
(5)	170610	159770	157918	153922	146316	141072	154935	6.741	
21 Aroclor-1248(1)	+++++	+++++	197744	+++++	+++++	+++++	197744	0.000	
(2)	+++++	+++++	186186	+++++	+++++	+++++	186186	0.000	
(3)	+++++	+++++	211326	+++++	+++++	+++++	211326	0.000	
(4)	+++++	+++++	195260	+++++	+++++	+++++	195260	0.000	
(5)	+++++	+++++	191214	+++++	+++++	+++++	191214	0.000	

Report Date : 19-Mar-2001 14:45

6E
HP6890SM
DB608

678 505

Page 2

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAR-2001 11:24
End Cal Date : 19-MAR-2001 14:21
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Cal Date : 19-Mar-2001 14:44 eppingerd
Curve Type : Average

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	0.20000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
33 Aroclor-1254(1)	+++++	+++++	210340	+++++	+++++	+++++	210340	0.000
(2)	+++++	+++++	253406	+++++	+++++	+++++	253406	0.000
(3)	+++++	+++++	373826	+++++	+++++	+++++	373826	0.000
(4)	+++++	+++++	258010	+++++	+++++	+++++	258010	0.000
(5)	+++++	+++++	234858	+++++	+++++	+++++	234858	0.000
36 Aroclor-1260(1)	347460	320460	323638	306386	299195	293305	315074	6.272
(2)	426850	406660	410572	401031	385721	385568	402734	3.919
(3)	329070	315425	323524	320377	315881	310161	319073	2.099
(4)	711650	704665	735886	740772	715779	731718	723412	2.026
(5)	313130	303850	313294	316578	310717	319233	312800	1.694
\$ 1 Tetrachloro-m-xylene	9566600	9198300	9331840	8956340	8734830	8522630	9051757	4.292
\$ 34 Decachlorobiphenyl	3185000	3068100	3228240	3119680	3154280	3156695	3151999	1.738

673 506

7E HP6890SM
DB608Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20641.D
Report Date: 20-Mar-2001 08:29

Page 1

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc8.i Injection Date: 19-MAR-2001 21:36
 Lab File ID: H-A20641.D Init. Cal. Date(s): 19-MAR-2001 19-MAR-2001
 Analysis Type: Init. Cal. Times: 11:24 14:21
 Lab Sample ID: M1660 Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m

COMPOUND	RRF	RFO	MIN	MAX	
	RRF	RFO	RRF	%D	%D
20 Aroclor-1016(1)	124695	135816	0.010	8.9	15.0
(2)	244172	260530	0.010	6.7	15.0
(3)	378907	410720	0.010	8.4	15.0
(4)	235518	249388	0.010	5.9	15.0
(5)	154935	163564	0.010	5.6	15.0
\$ 1 Tetrachloro-m-xylene	9051757	9581920	0.000	5.9	15.0
\$ 34 Decachlorobiphenyl	3151999	3291880	0.010	4.4	15.0
36 Aroclor-1260(1)	315074	326204	0.010	3.5	15.0
(2)	402734	426758	0.010	6.0	15.0
(3)	319073	337966	0.010	5.9	15.0
(4)	723412	769534	0.010	6.4	15.0
(5)	312800	334136	0.010	6.8	15.0

8D
PESTICIDE ANALYTICAL SEQUENCE

673 507

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: C1C150304
 GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 03/19/01 03/19/01
 Instrument ID: GC8

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 #
=====		=====	=====	=====	=====
01		M2154	03/19/01	1124	1.68
02		M1232	03/19/01	1143	
03		M1242	03/19/01	1203	
04		M1248	03/19/01	1223	
05		L1660	03/19/01	1243	1.68
06		ML1660	03/19/01	1302	1.68
07		M1660	03/19/01	1322	1.68
08		MH1660	03/19/01	1342	1.68
09		H1660	03/19/01	1402	1.68
10		XH1660	03/19/01	1421	1.68
11		2M2154	03/19/01	1441	1.68
12		2M1232	03/19/01	1501	
13		2M1242	03/19/01	1521	
14		2M1248	03/19/01	1541	
15		2M1660	03/19/01	1600	
16	DF/24-B/1073	DXGMH1AE	03/19/01	2117	1.67
17		M1660	03/19/01	2136	1.68
18					
19					
20					
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.

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20610.D
 Lab Smp Id: M2154
 Inj Date : 19-MAR-2001 11:24
 Operator : 010139
 Smp Info : M2154,2131.b
 Misc Info : 190-111-7
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:40 eppingerd
 Cal Date : 19-MAR-2001 11:24
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20610.D
 Calibration Sample, Level: 3
 Compound Sublist: 2154.sub
 Sample Matrix: None

AMOUNTS							
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
..	*****	*****	*****	*****	*****	*****	*****
8 Aroclor-1221					CAS #: 11104-28-2		
1 464	1 464	(0 000)	27558	0.50000	0 50000	0.00- 0 00	0 00
1.987	1 987	(0.000)	39829	0.50000	0 50000	116.57- 156 57	0 00
2 186	2.186	(0 000)	75950	0.50000	0.50000	66 04- 106.04	0 00
Average of Peak Amounts =					0.5		

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1 677	1 680	(-0 003)	202113	0.02500	0.025000		

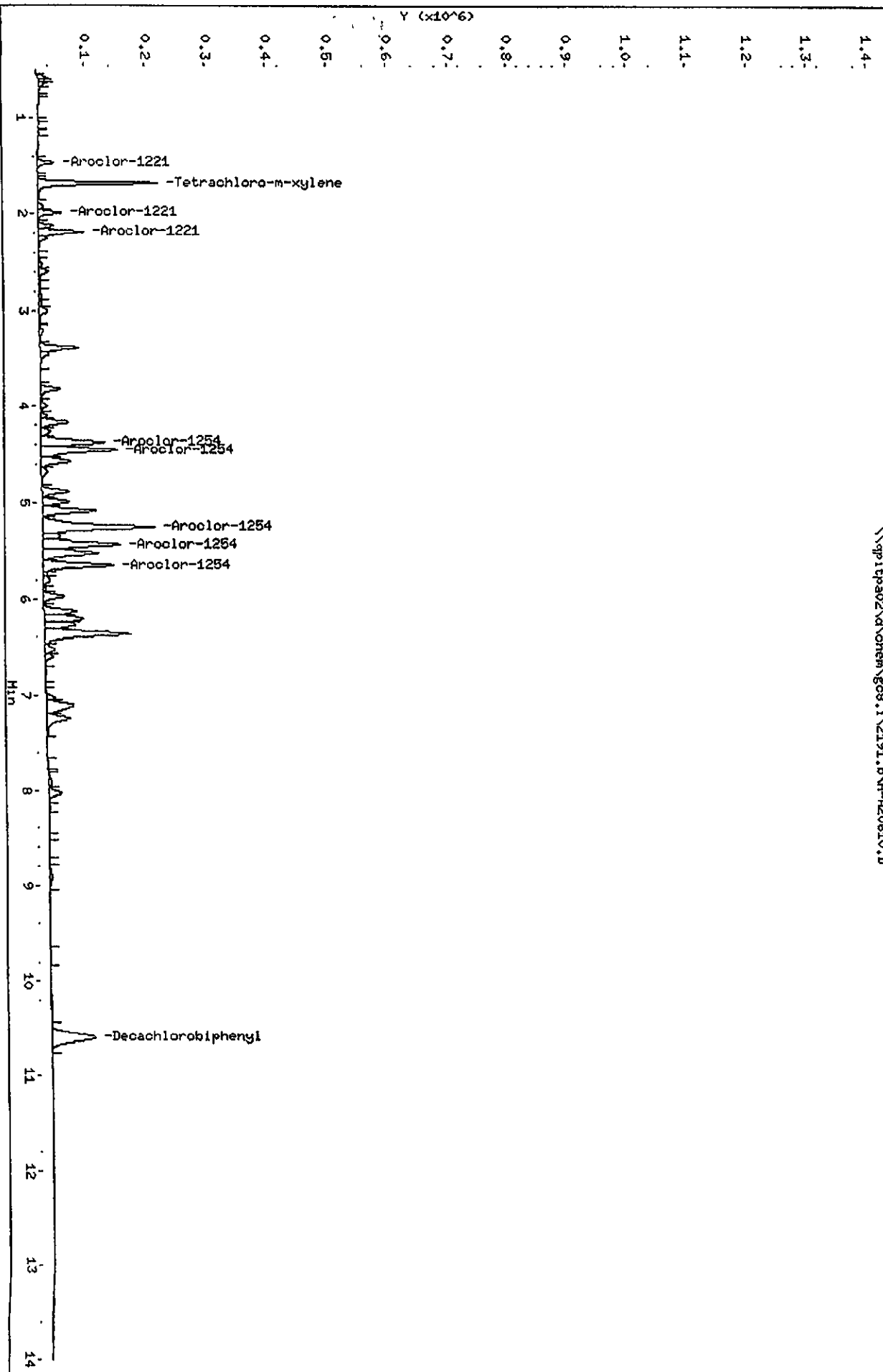
\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10.592	10 603	(-0.011)	73100	0.02500	0 025000		

33 Aroclor-1254					CAS # 11097-69-1		
4 374	4 374	(0 000)	105170	0 50000	0 50000	0.00- 0 00	0 00
4.451	4.451	(0.000)	126703	0.50000	0.50000	92 23- 132.23	0 00
5.250	5 250	(0 000)	186913	0.50000	0 50000	77.40- 117.40	0.00
5 429	5 429	(0 000)	129005	0.50000	0.50000	51.09- 91 09	0 00
5 646	5.646	(0 000)	117429	0.50000	0 50000	65.01- 105 01	0.00
Average of Peak Amounts =					0 5		

Data File: \\pp1tpa02\chem\gc08.1\2191.b\H-020610.D
Date: 19-MAR-2001 11:24
Client ID:
Sample Info: H2154,2131.b
Column phase: DB608

Instrument: gc08.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\gc08.1\2191.b\H-020610.D



STL-Pittsburgh

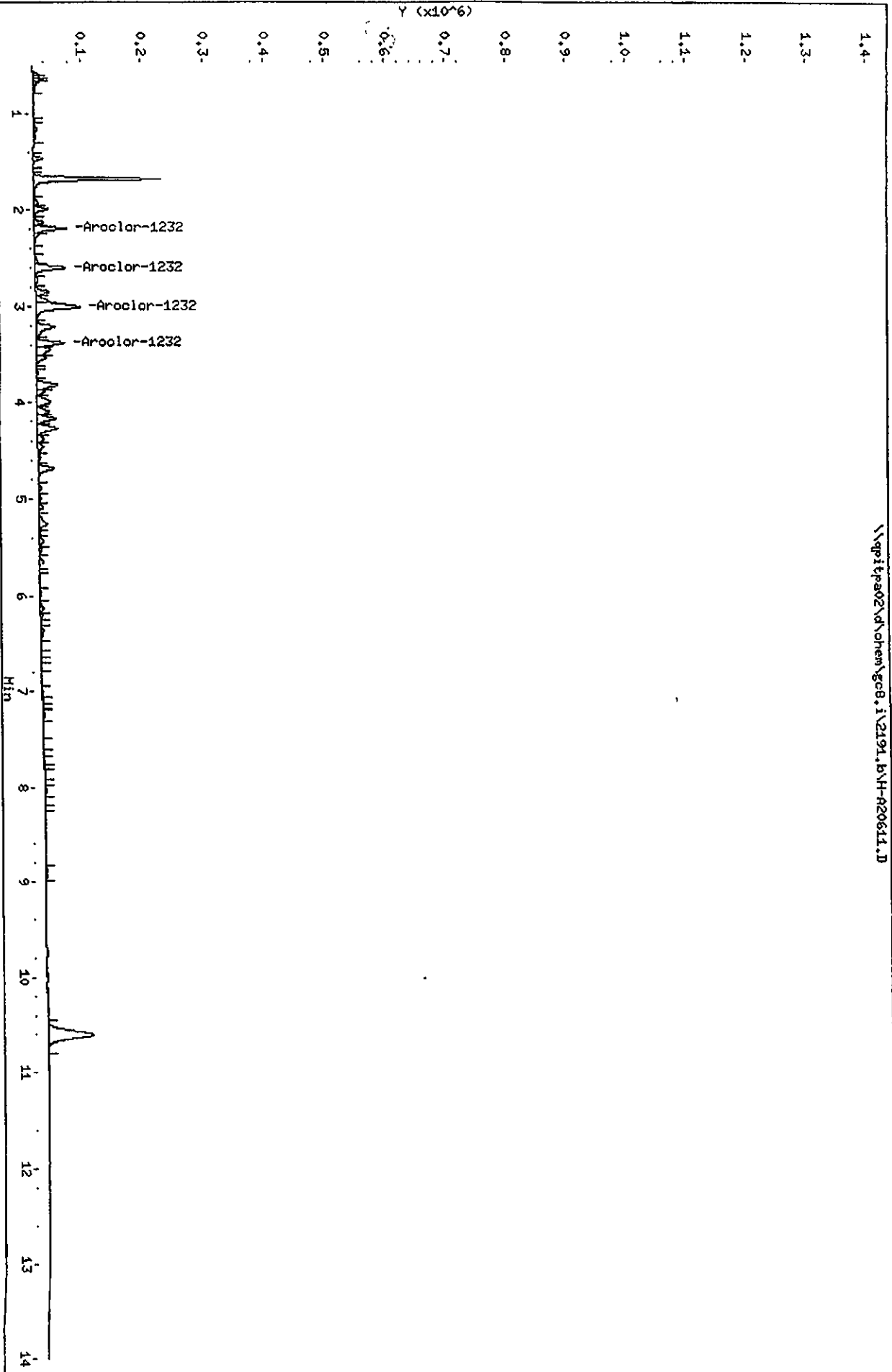
Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20611.D
 Lab Smp Id: M1232
 Inj Date : 19-MAR-2001 11:43
 Operator : 010139
 Smp Info : M1232,2131.b
 Misc Info : 190-111-8
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:41 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 11:43 Cal File: H-A20611.D
 Als bottle: 3 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1232.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS							
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (ng)	ON-COL (ng)	TARGET RANGE	RATIO	

14 Aroclor-1232				CAS #: 11141-16-5			
2 188	2.188	(0.000)	53222 0.50000	0.50000	0.00- 0.00	0.00	
2 600	2.600	(0.000)	49886 0.50000	0.50000	146.26- 186.26	0.00	
3 008	3.008	(0.000)	71582 0.50000	0.50000	65.99- 105.99	0.00	
3 377	3.377	(0.000)	47544 0.50000	0.50000	74.18- 114.18	0.00	
Average of Peak Amounts =				0.5			

Data File: \\qpi\pa02\chem\gc8.i\2191.b\H-A20611.D
 Date: 19-MAR-2004 11:43
 Client ID:
 Sample Info: H4232,2131.b
 Column phase: DB608

Instrument: gc8.1
 Operator: Q10139
 Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20612.D
 Lab Smp Id: M1242
 Inj Date : 19-MAR-2001 12:03
 Operator : 010139
 Smp Info : M1242,2131.b
 Misc Info : 190-111-9
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:41 eppingerd
 Cal Date : 19-MAR-2001 12:03
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC061

Inst ID: gc8.i
 Quant Type: ESTD
 Cal File: H-A20612.D
 Calibration Sample, Level: 3
 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				
3.010	3.010	(0.000)	145884	0.50000	0.50000	0.00-	0.00
3.380	3.380	(0.000)	90343	0.50000	0.50000	310.13-	350.13
3.818	3.818	(0.000)	66623	0.50000	0.50000	749.70-	789.70
4.269	4.269	(0.000)	65706	0.50000	0.50000	512.48-	552.48
4.682	4.682	(0.000)	56549	0.50000	0.50000	314.30-	354.30
Average of Peak Amounts =			0.5				

Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-A20612.D

Date : 19-MAR-2001 12:03

Client ID:

Sample Info: H1242,2131.b

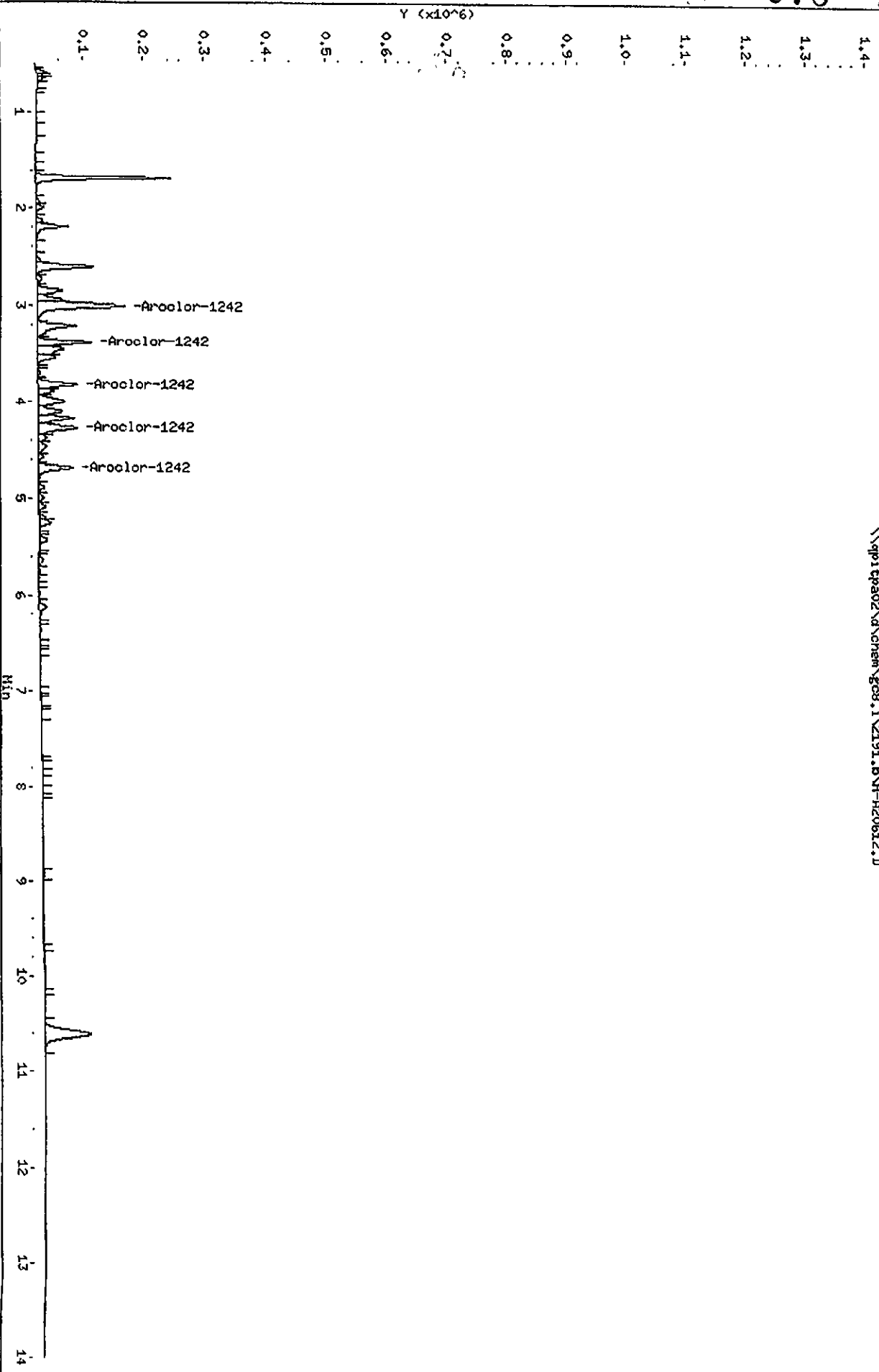
Column Phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53

\\pp1tpa02\chem\gc8.1\2191.b\H-A20612.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20613.D
 Lab Smp Id: M1248
 Inj Date : 19-MAR-2001 12:23
 Operator : 010139
 Smp Info : M1248,2131.b
 Misc Info : 190-111-10
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:41 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 12:23 Cal File: H-A20613.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1248.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS							
			CAL-AMT	ON-COL			
RT	EXP RT	DLT RT	RESPONSE (ng)	(ng)	TARGET RANGE	RATIO	
..	*****	*****	*****	*****	*****	*****	
21 Aroclor-1248			CAS #: 12672-29-6				
3.380	3 380	(0.000)	98872 0.50000	0.50000	0.00- 0 00	0.00	
3 819	3 819	(0 000)	93093 0 50000	0 50000	114.57- 154.57	0 00	
4.169	4 169	(0 000)	105663 0.50000	0.50000	63.67- 103 67	0.00	
4.270	4 270	(0.000)	97630 0.50000	0.50000	43.86- 83 86	0.00	
4.685	4.685	(0 000)	95607 0.50000	0 50000	128 08- 168.08	0 00	
Average of Peak Amounts =			0 5				

Data File: \\pp1tpa02\chem\gc8.i\2191.b\H-A20613.D

Date: 19-MAR-2001 12:23

Client ID:

Sample Info: H1248,2131.b

Column phase: DB608

Instrument: gc8.i

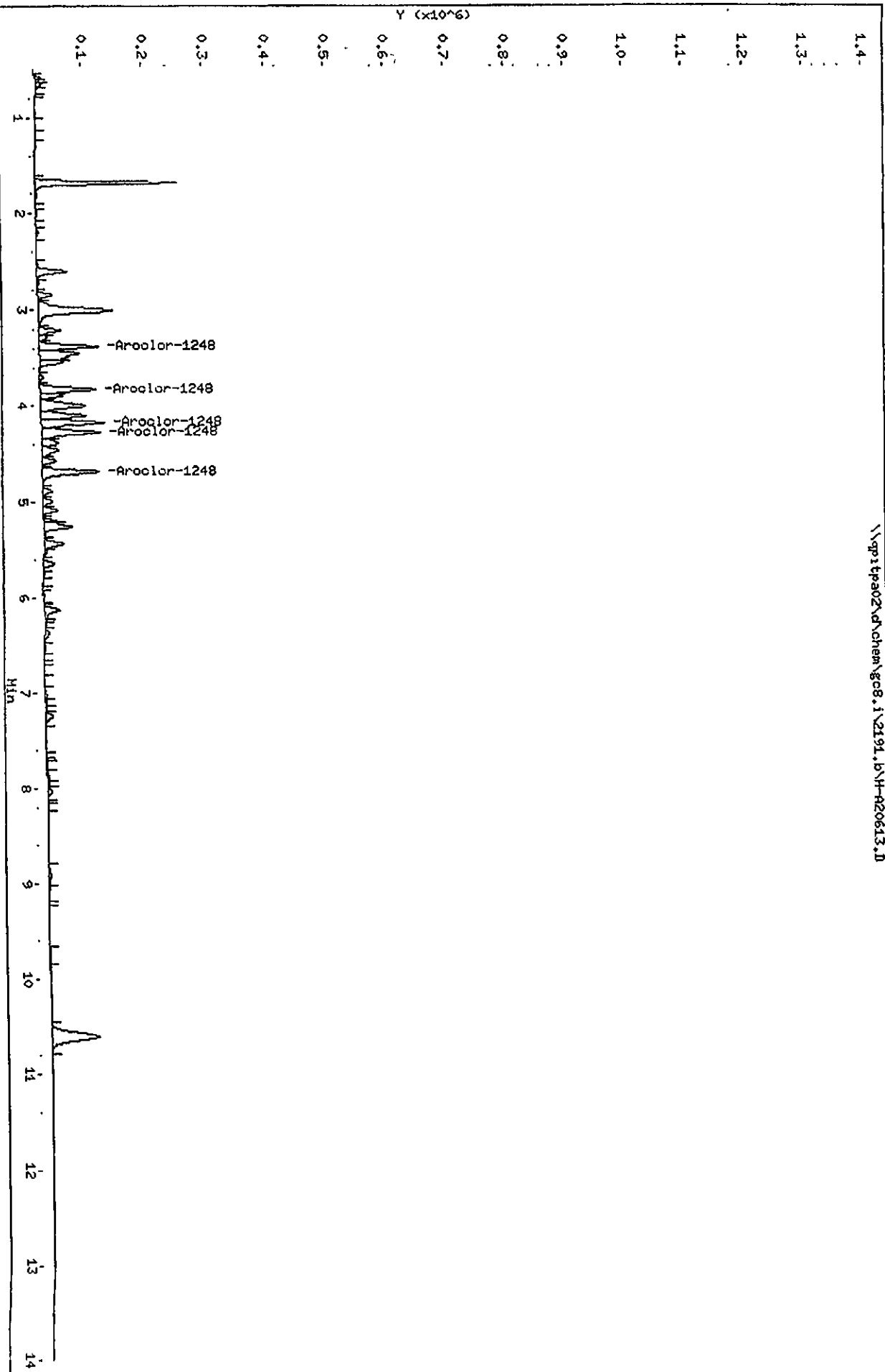
Operator: 010139

Column diameter: 0.53

\\pp1tpa02\chem\gc8.i\2191.b\H-A20613.D

673

515



673 516

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20614.D
 Report Date: 19-Mar-2001 14:42

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20614.D
 Lab Smp Id: L1660
 Inj Date : 19-MAR-2001 12:43
 Operator : 010139 Inst ID: gc8.i
 Smp Info : L1660,2191.b
 Misc Info : 190-111-11
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:42 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 12:43 Cal File: H-A20614.D
 Als bottle: 6 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1660.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS								
			CAL-AMT	ON-COL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016					CAS #: 12674-11-2			
2 189	2 190	(-0.001)	13832 0	10000	0	10000	0.00- 0 00	0 00
2 602	2 602	(0 000)	28218 0	10000	0.10000	80 00-	120 00	0 00
3 010	3 009	(0 001)	41577 0.10000		0.10000	203 51-	243 51	0.00
3 380	3.380	(0.000)	26104 0.10000		0 10000	203 51-	243.51	0.00
3 821	3.820	(0 001)	17061 0.10000		0 10000	297.56-	337 56	0 00
Average of Peak Amounts =					0.1			

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
1 680	1.680	(0.000)	47833 0.00500		0 0054198			

\$ 34 Decachlorobiphenyl					CAS # 2051-24-3			
10 601	10.603	(-0 002)	15925 0	00500	0.0052136			

36 Aroclor-1260					CAS #: 11096-82-5			
5 524	5 525	(-0 001)	34746 0.10000		0.10000	0.00-	0.00	0.00
5 649	5.650	(-0.001)	42685 0	10000	0 10000	95.86-	135 86	0 00
6.372	6 366	(0 006)	32907 0	10000	0 10000	116 91-	156 91	0.00
7 242	7 240	(0 002)	71165 0.10000		0 10000	120.00-	160 00	0.00
8 032	8.031	(0.001)	31313 0	10000	0.10000	108.33-	148 33	0.00
Average of Peak Amounts =					0.1			

673

517

Data File: \\sp1tpa02\chem\gc8.i\2191.b\H-A20614.D

Date : 19-MAR-2001 12:43

Client ID:

Sample Info: L1660,2191.b

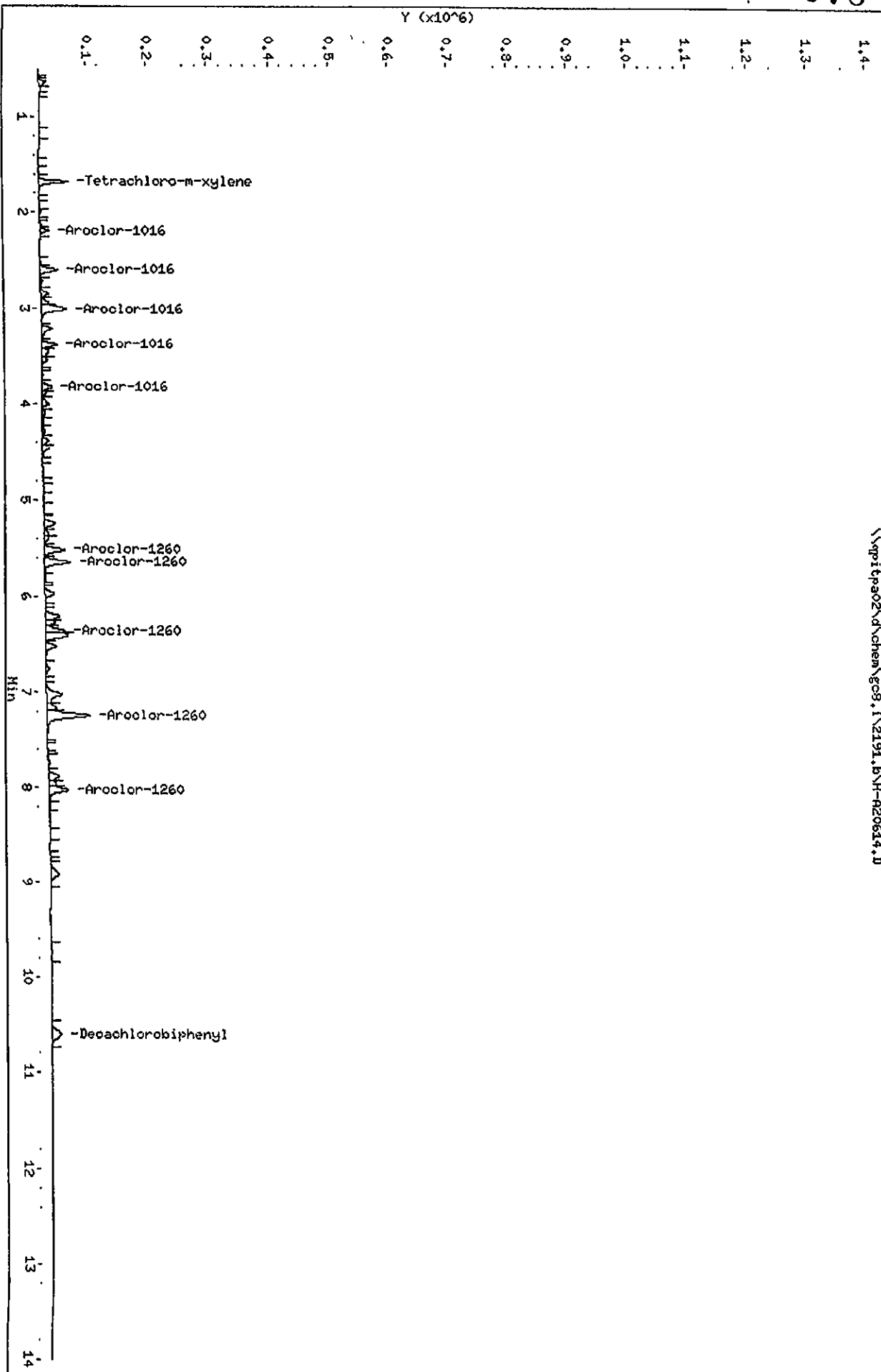
Column phase: DB608

Instrument: gc8.i

Operator: 010139

Column diameter: 0.53

\\sp1tpa02\chem\gc8.i\2191.b\H-A20614.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20615.D
 Lab Smp Id: ML1660
 Inj Date : 19-MAR-2001 13:02
 Operator : 010139
 Smp Info : ML1660,2191.b
 Misc Info : 190-111-12
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:42 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 13:02 Cal File: H-A20615.D
 Als bottle: 7 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1660.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS							
		CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016					CAS #	12674-11-2	
2 190	2 190	(0.000)	26876	0.20000	0.19711	0 00- 0.00	0.00
2 602	2.602	(0 000)	52247	0 20000	0 19229	80.00- 120 00	0.00
3.011	3 009	(0 002)	78452	0.20000	0.19418	203 51- 243 51	0.00
3 379	3 380	(-0 001)	48924	0.20000	0.19350	203.51- 243 51	0 00
3.821	3 820	(0 001)	31954	0.20000	0 19344	297 56- 337.56	0.00
Average of Peak Amounts =					0 19411		

\$ 1 Tetrachloro-m-xylene					CAS #	877-09-8	
1 680	1.680	(0 000)	91983	0.01000	0.010278		

\$ 34 Decachlorobiphenyl					CAS #:	2051-24-3	
10.601	10 603	(-0 002)	30681	0.01000	0 010030		

36 Aroclor-1260					CAS #	11096-82-5	
5.527	5.525	(0 002)	64092	0.20000	0.19192	0.00- 0 00	0 00(M)
5 650	5 650	(0 000)	81332	0.20000	0.19516	95 86- 135.86	0 00
6 381	6 366	(0 015)	63085	0.20000	0 19576	116 91- 156 91	0.00
7 242	7.240	(0 002)	140933	0.20000	0.19901	120.00- 160.00	0 00
8 032	8 031	(0 001)	60770	0 20000	0.19699	108 33- 148.33	0.00
Average of Peak Amounts =					0.19577		

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20615.D
Report Date: 19-Mar-2001 14:42

673

519
Page 2

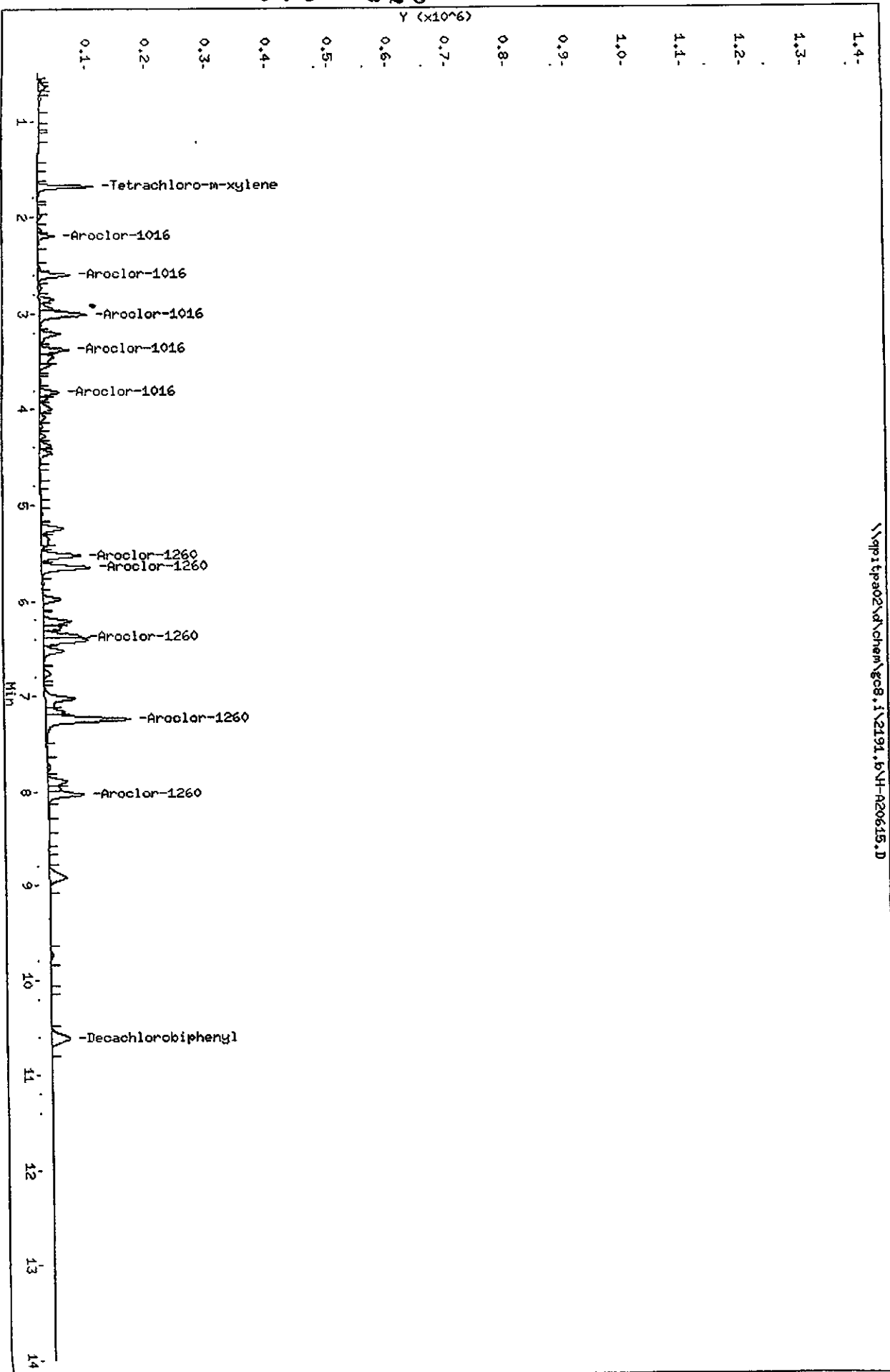
QC Flag Legend

M - Compound response manually integrated.

678 520

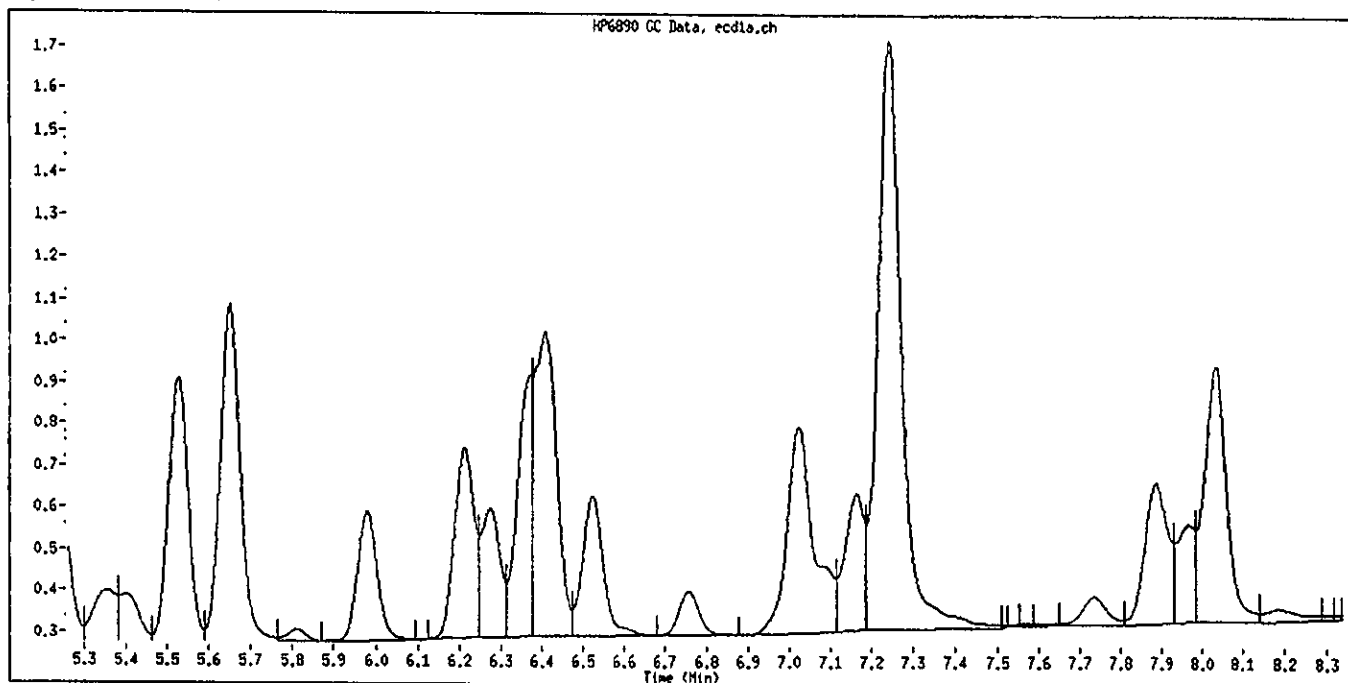
Data File: \\pp1tpa02\chem\gc8.i\2191.b\H-A20615.D
 Date : 19-MAR-2004 13:02
 Client ID:
 Sample Info: ML1660,2191.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

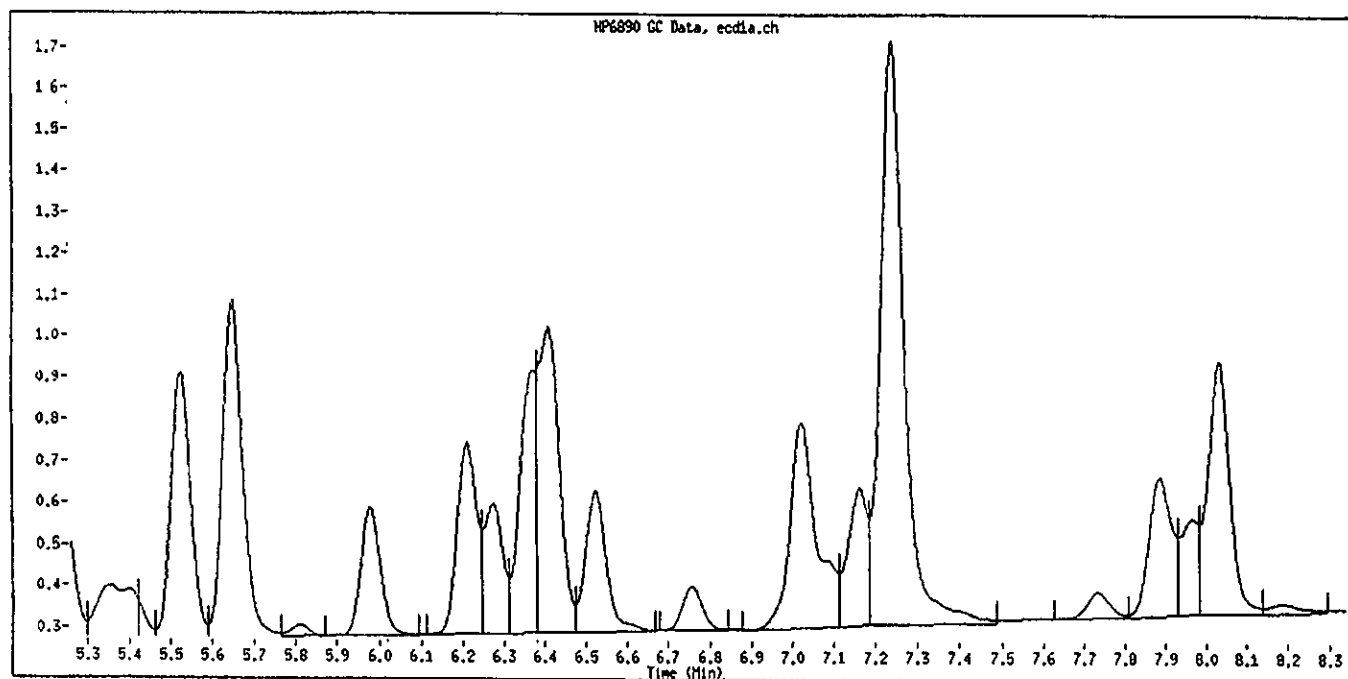


Data File Name: H-A20615 D
Inj Date and Time 19-MAR-2001 13.02
Instrument ID gc8 i
Client ID.
Compound Name: Aroclor-1260
CAS # 11096-82-5
Report Date: 03/19/2001

673 521



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason: Poor Chromatography

673 522

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20616.D
 Report Date: 19-Mar-2001 14:43

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20616.D
 Lab Smp Id: M1660
 Inj Date : 19-MAR-2001 13:22
 Operator : 010139
 Smp Info : M1660,2191.b
 Misc Info : 190-111-13
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:42 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 13:22 Cal File: H-A20616.D
 Als bottle: 8 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1660.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS								
RT	EXP RT	DLT RT	RESPONSE (	ng)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016					CAS #. 12674-11-2			
2 190	2 190	(0.000)	64764	0 50000	0.48304	0 00-	0 00	0 00
2 602	2 602	(0 000)	126827	0.50000	0.47735	80.00-	120.00	0.00
3 009	3 009	(0 000)	194676	0.50000	0.48775	203.51-	243.51	0.00
3 380	3.380	(0 000)	119133	0.50000	0.48042	203 51-	243.51	0 00
3 820	3.820	(0.000)	78959	0.50000	0.48511	297.56-	337.56	0.00
Average of Peak Amounts =					0.48273			

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8			
1 680	1 680	(0 000)	233296	0 02500	0.024910			

\$ 34 Decachlorobiphenyl					CAS # 2051-24-3			
10 603	10.603	(0 000)	80706	0.02500	0.025536			

36 Aroclor-1260					CAS #: 11096-82-5			
5 525	5.525	(0 000)	161819	0.50000	0.48959	0.00-	0 00	0 00
5.650	5 650	(0.000)	205286	0.50000	0.49503	95 86-	135 86	0.00
6.366	6.366	(0 000)	161762	0.50000	0 50132	116 91-	156.91	0 00
7.240	7 240	(0 000)	367943	0 50000	0 51288	120 00-	160.00	0.00
8 031	8 031	(0 000)	156647	0.50000	0.50516	108.33-	148.33	0 00
Average of Peak Amounts =					0.5008			

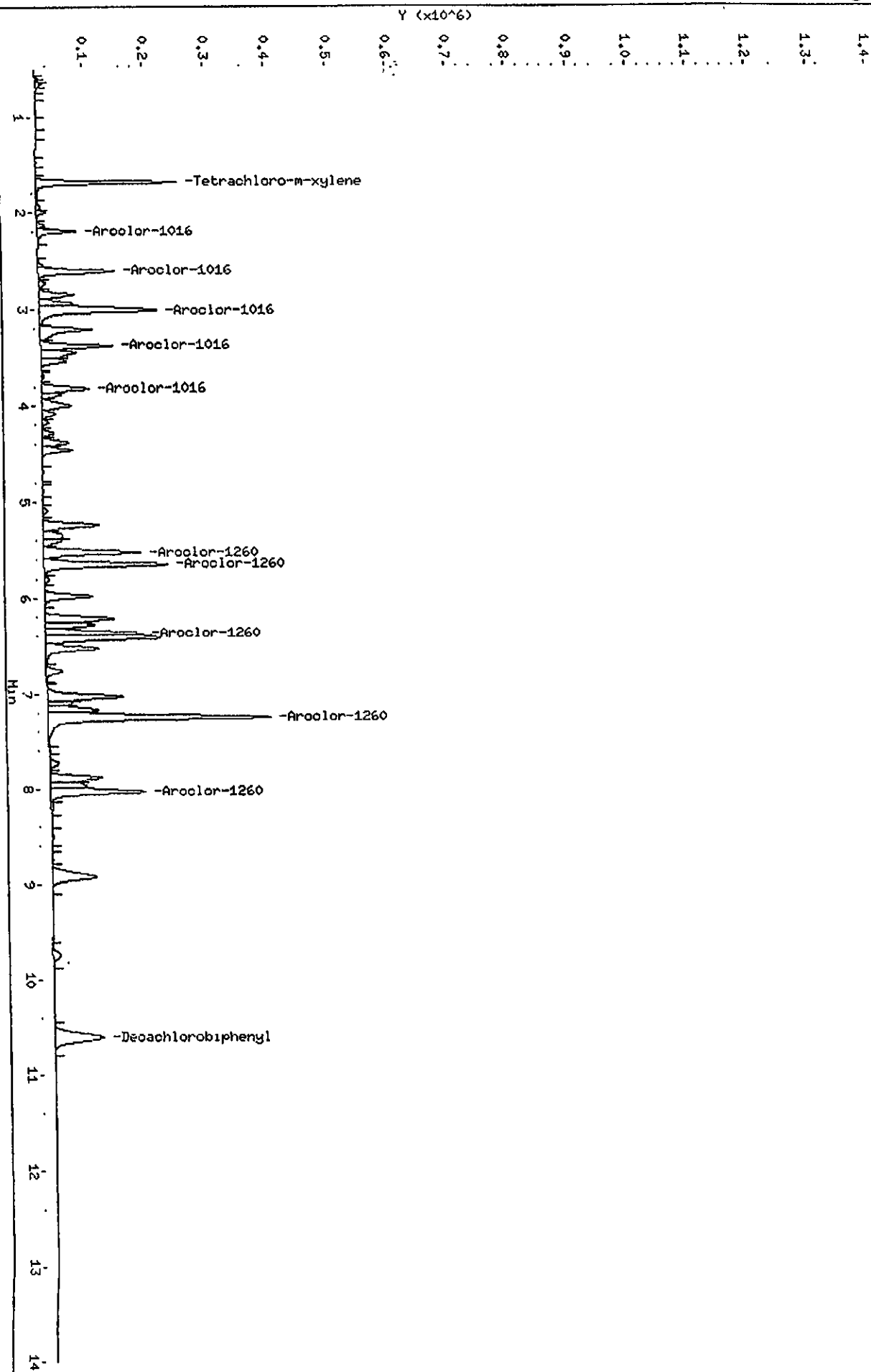
678

523

Data File: \\qpltpa02\chem\gc8.i\2191.b\H-A20616.D
Date: 19-MAR-2001 13:22
Client ID:
Sample Info: M1560,2191.b
Column phase: DB608

Instrument: gc8.i
Operator: 010139
Column diameter: 0.53

\\qpltpa02\chem\gc8.i\2191.b\H-A20616.D



673 524

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20617.D
 Report Date: 19-Mar-2001 14:43

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20617.D
 Lab Smp Id: MH1660
 Inj Date : 19-MAR-2001 13:42
 Operator : 010139
 Smp Info : MH1660,2191.b
 Misc Info : 190-111-14
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:43 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 13:42 Cal File: H-A20617.D
 Als bottle: 9 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1660.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS								
			CAL-AMT	ON-COL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
00	000000	000000	000000	000000	000000	000000	0000000000	0000
20 Aroclor-1016					CAS # 12674-11-2			
2.188	2 190	(-0.002)	122079	1.00000	0.93136	0 00-	0 00	0 00
2 601	2 602	(-0.001)	234506	1 00000	0 90931	80.00-	120.00	0 00
3 009	3 009	(0.000)	370473	1.00000	0.94517	203.51-	243.51	0.00
3 379	3 380	(-0.001)	230994	1 00000	0 94774	203 51-	243.51	0.00
3.817	3 820	(-0.003)	153922	1 00000	0.95869	297 56-	337.56	0 00
Average of Peak Amounts =					0.93845			

\$ 1 Tetrachloro-m-xylene					CAS # 877-09-8			
1.679	1 680	(-0.001)	447817	0.05000	0 048343			

\$ 34 Decachlorobiphenyl					CAS # 2051-24-3			
10 599	10 603	(-0.004)	155984	0.05000	0.049515			

36 Aroclor-1260					CAS # 11096-82-5			
5 524	5 525	(-0.001)	306386	1 00000	0.94422	0.00-	0.00	0 00
5.647	5 650	(-0.003)	401031	1 00000	0.97508	95 86-	135 86	0 00
6 375	6.366	(0.009)	320377	1 00000	0.99465	116 91-	156 91	0.00
7.239	7.240	(-0.001)	740772	1.00000	1.0242	120 00-	160.00	0.00
8 031	8.031	(0.000)	316578	1.00000	1.0156	108 33-	148 33	0.00
Average of Peak Amounts =					0.99076			

Data File: \\ppitpa02\chem\gc8.1\2191.b\H-A20617.D

Date: 13-MAR-2001 13:42

Client ID:

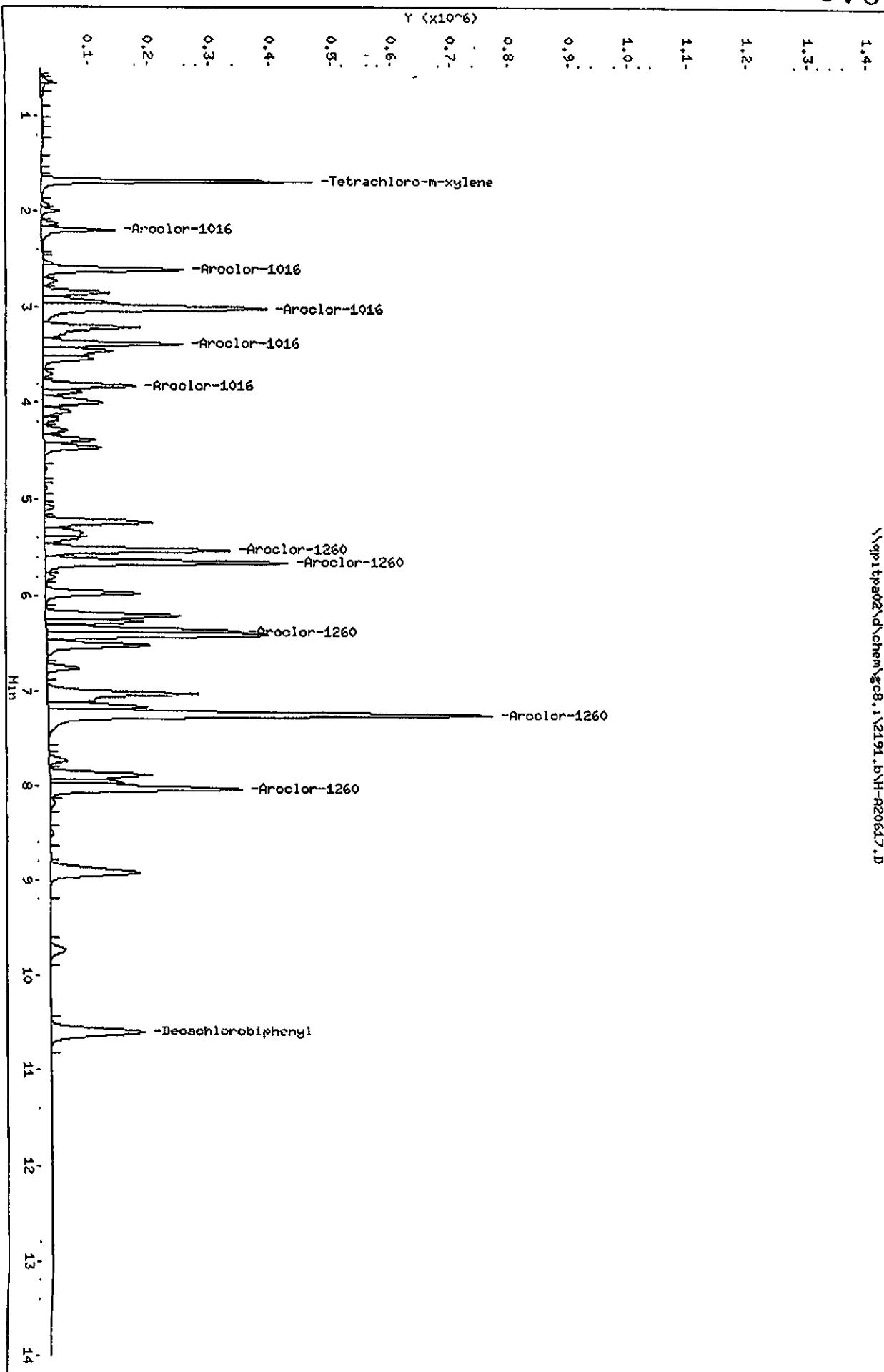
Sample Info: HH1660,2191.b

Column phase: DB608

Instrument: gc8.1

Operator: 010139

Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20618.D
 Lab Smp Id: H1660
 Inj Date : 19-MAR-2001 14:02
 Operator : 010139
 Smp Info : H1660,2191.b
 Misc Info : 190-112-1
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
 Meth Date : 19-Mar-2001 14:43 eppingerd Quant Type: ESTD
 Cal Date : 19-MAR-2001 14:02 Cal File: H-A20618.D
 Als bottle: 10 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: 1660.sub
 Target Version: 4.04 Sample Matrix: None
 Processing Host: PITPC061

AMOUNTS							
RT	EXP RT	DLT RT	RESPONSE (	CAL-AMT (ng)	ON-COL (ng)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
20 Aroclor-1016					CAS #. 12674-11-2		
2.190	2.190	(0.000)	225886	2.00000	1.7723	0.00- 0.00	0.00(M)
2.602	2.602	(0.000)	442611	2.00000	1.7664	80.00- 120.00	0.00
3.010	3.009	(0.001)	714457	2.00000	1.8556	203.51- 243.51	0.00
3.377	3.380	(-0.003)	441719	2.00000	1.8470	203.51- 243.51	0.00
3.818	3.820	(-0.002)	292631	2.00000	1.8555	297.56- 337.56	0.00
Average of Peak Amounts =					1.8194		

\$ 1 Tetrachloro-m-xylene					CAS #: 877-09-8		
1.679	1.680	(-0.001)	873483	0.10000	0.095384		

\$ 34 Decachlorobiphenyl					CAS # 2051-24-3		
10.602	10.603	(-0.001)	315428	0.10000	0.10010		

36 Aroclor-1260					CAS #: 11096-82-5		
5.526	5.525	(0.001)	598390	2.00000	1.8733	0.00- 0.00	0.00(M)
5.647	5.650	(-0.003)	771442	2.00000	1.8993	95.86- 135.86	0.00
6.377	6.366	(0.011)	631761	2.00000	1.9690	116.91- 156.91	0.00
7.239	7.240	(-0.001)	1431558	2.00000	1.9834	120.00- 160.00	0.00
8.031	8.031	(0.000)	621433	2.00000	1.9949	108.33- 148.33	0.00
Average of Peak Amounts =					1.944		

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20618.D
Report Date: 19-Mar-2001 14:43

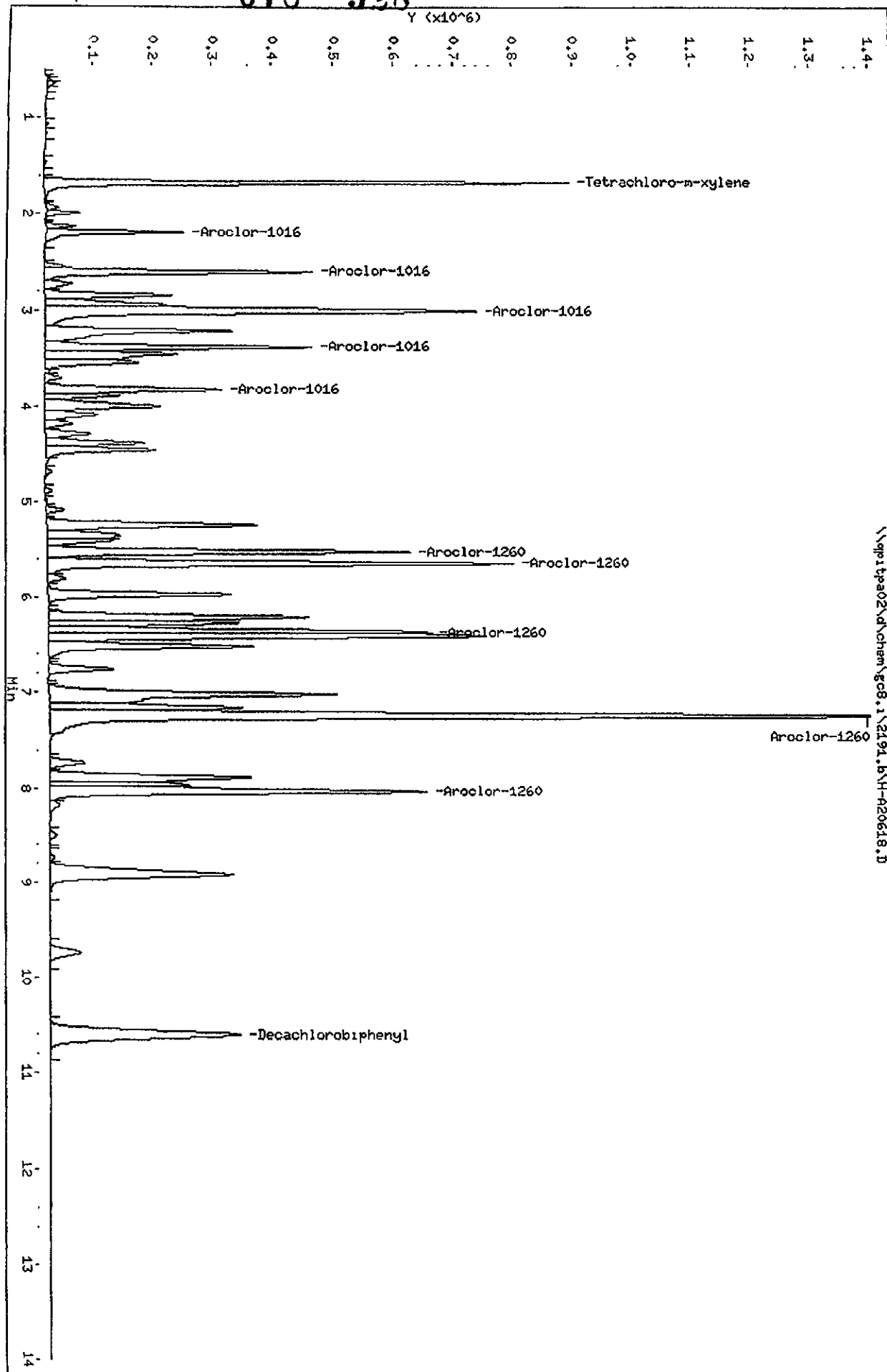
QC Flag Legend

M - Compound response manually integrated.

678 528

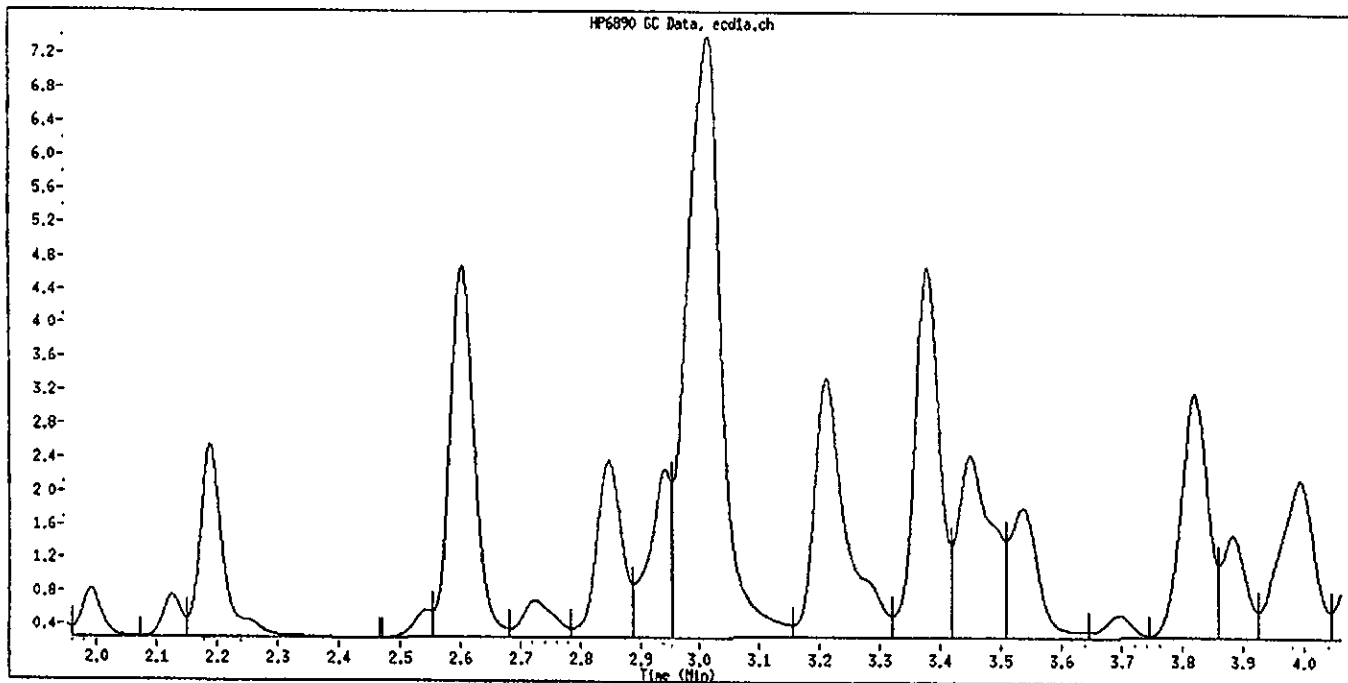
Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-A20618.D
 Date: 19-MAR-2001 14:02
 Client ID:
 Sample Info: H4660, 2191.b
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53

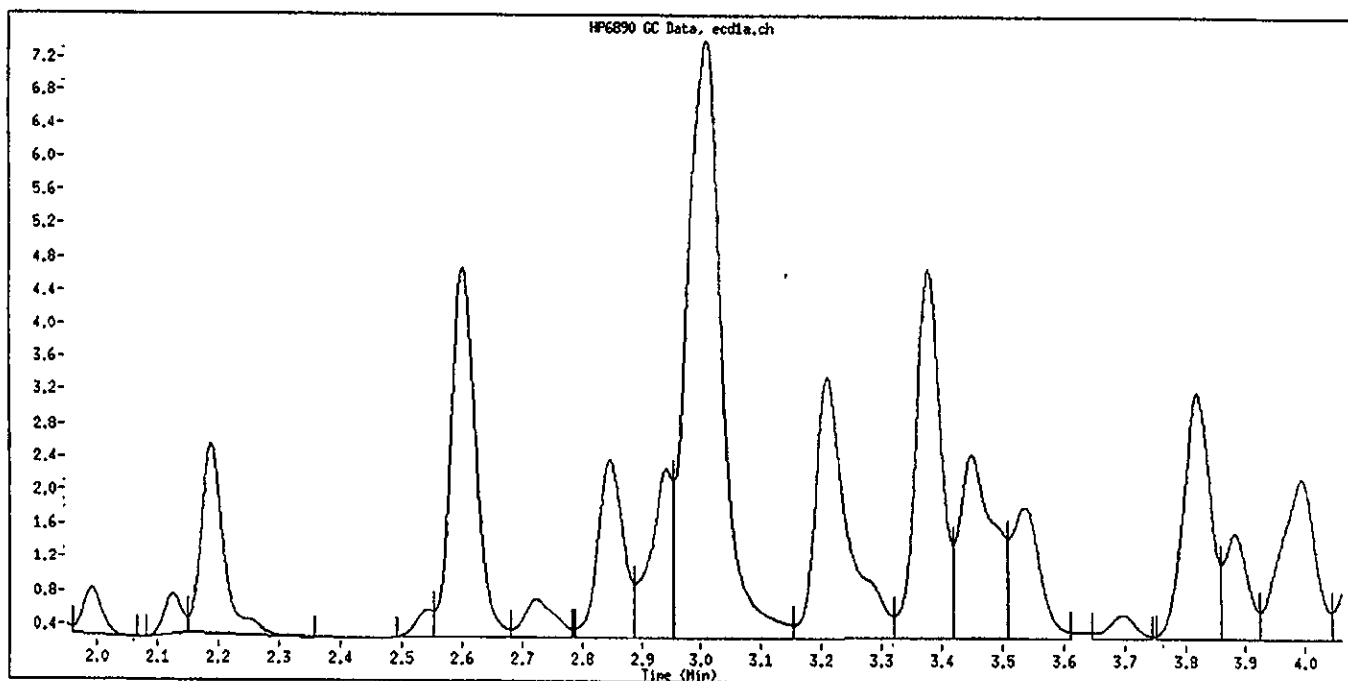


Data File Name H-A20618 D
Inj. Date and Time. 19-MAR-2001 14 02
Instrument ID gc8 i
Client ID
Compound Name Aroclor-1016
CAS # 12674-11-2
Report Date. 03/19/2001

678 529



Original Integration



Manual Integration

Manually Integrated By: EppingerD
Manual Integration Reason: Poor Chromatography

673 530

Data File Name: H-A20618.D

Inj. Date and Time 19-MAR-2001 14:02

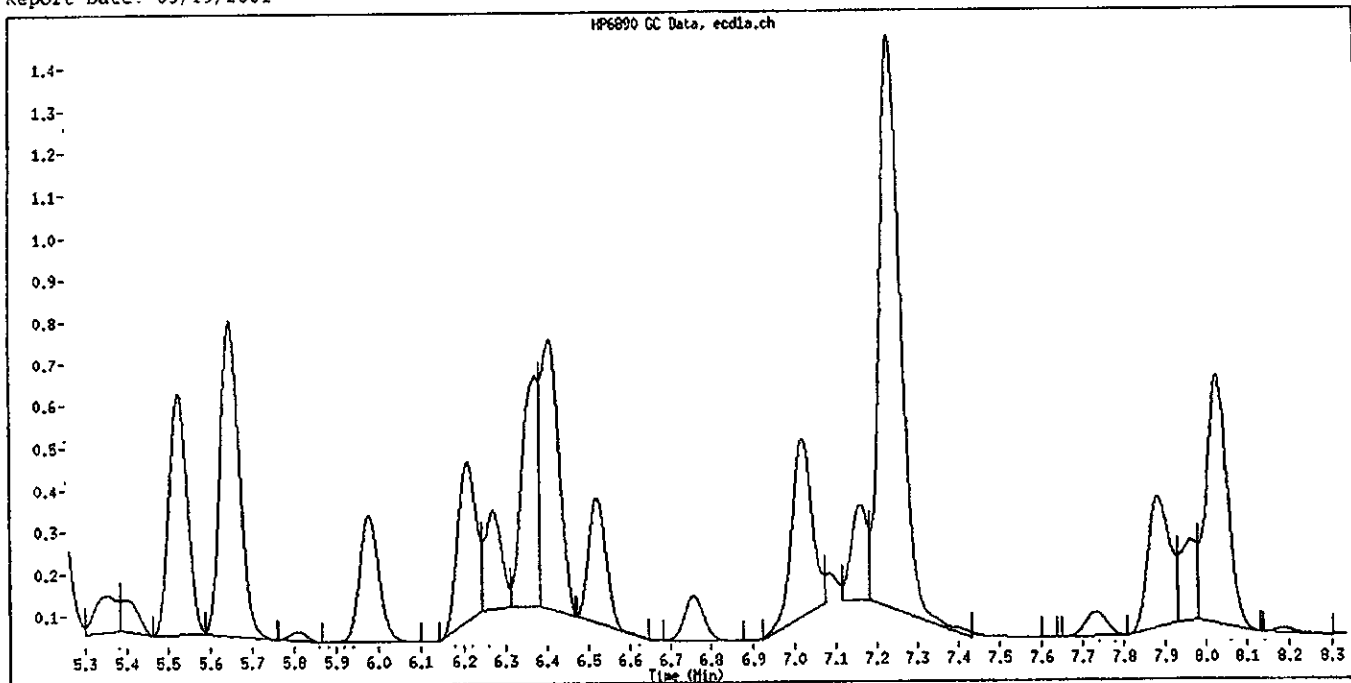
Instrument ID gc8.1

Client ID

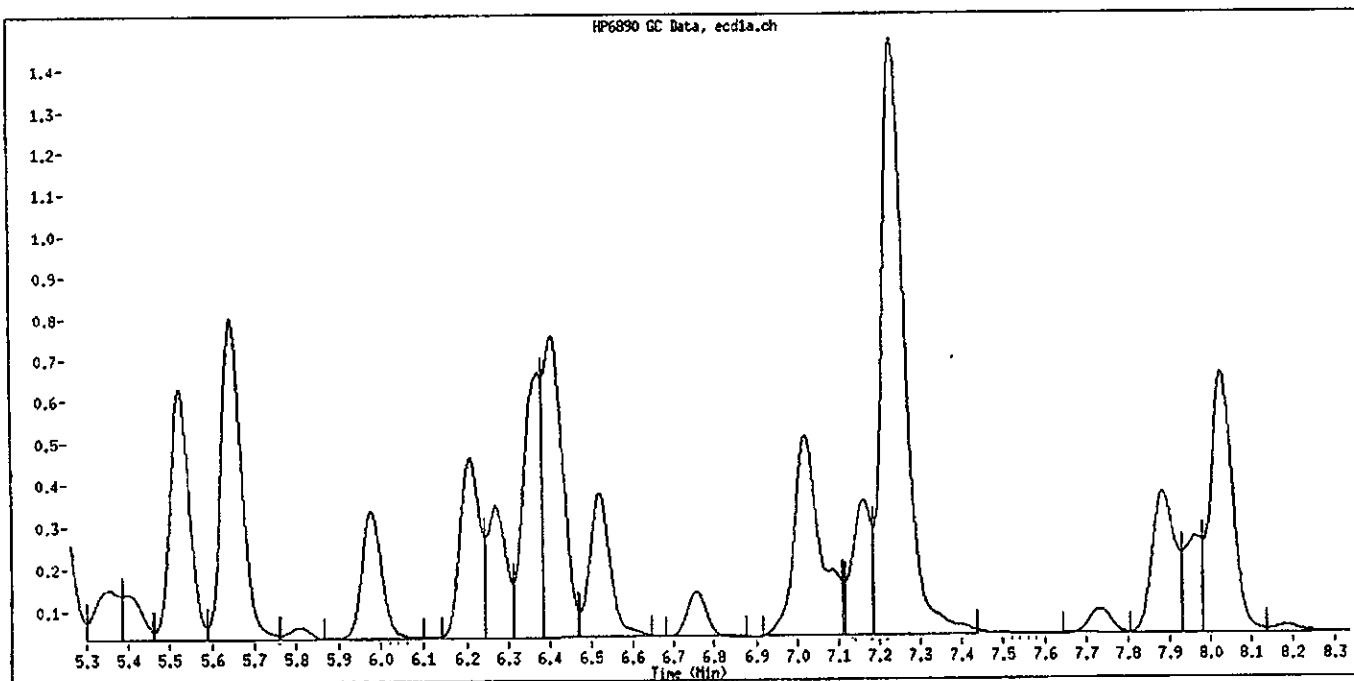
Compound Name: Aroclor-1260

CAS # 11096-82-5

Report Date: 03/19/2001



Original Integration



Manual Integration

Manually Integrated By: EppingerD

Manual Integration Reason: Poor Chromatography

Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20619.D
Report Date: 19-Mar-2001 14:44

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20619.D
Lab Smp Id: XH1660
Inj Date : 19-MAR-2001 14:21
Operator : 010139
Smp Info : XH1660,2191.b
Misc Info : 190-112-2
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 14:44 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 11 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1660.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

AMOUNTS							
RT	EXP RT	DLT RT	CAL-AMT RESPONSE (	ng)	ON-COL (ng)	TARGET RANGE	RATIO
---	-----	-----	-----	-----	-----	-----	-----
20 Aroclor-1016					CAS #	12674-11-2	
2 189	2 190	(-0.001)	443668	4.00000	3.5580	0.00- 0.00	0.00
2 601	2 602	(-0.001)	848611	4.00000	3.4755	80.00- 120.00	0.00
3.009	3.009	(0.000)	1393423	4.00000	3.6775	203.51- 243.51	0.00
3.378	3.380	(-0.002)	869305	4.00000	3.6910	203.51- 243.51	0.00
3.819	3.820	(-0.001)	564289	4.00000	3.6421	297.56- 337.56	0.00
Average of Peak Amounts =					3.6088		

\$ 1 Tetrachloro-m-xylene					CAS #:	877-09-8	
1 680	1 680	(0.000)	1704526	0.20000	0.18831		

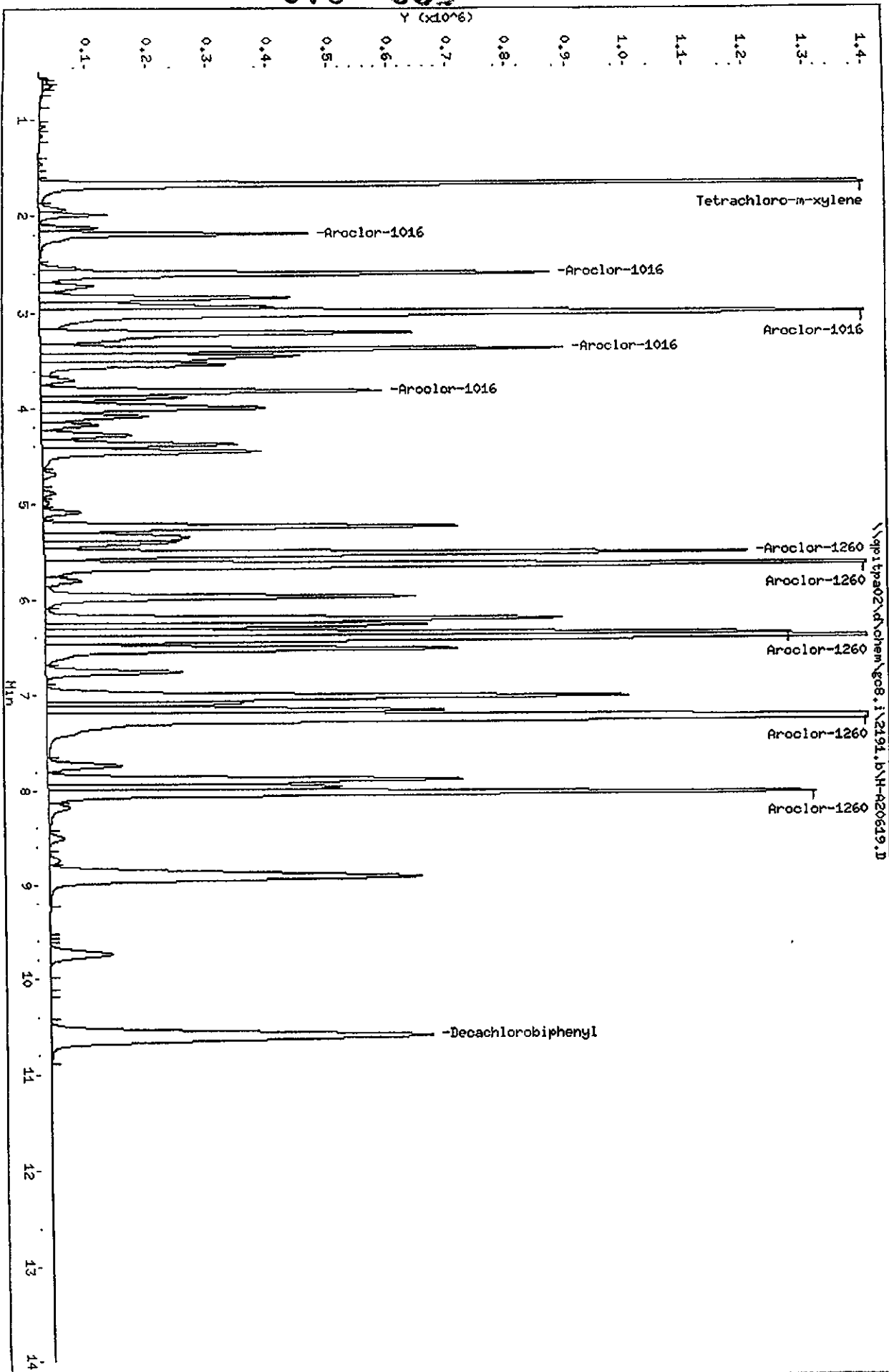
\$ 34 Decachlorobiphenyl					CAS #.	2051-24-3	
10 599	10 603	(-0.004)	631339	0.20000	0.20030		

36 Aroclor-1260					CAS #:	11096-82-5	
5 524	5 525	(-0.001)	1173218	4.00000	3.7236	0.00- 0.00	0.00
5 649	5.650	(-0.001)	1542271	4.00000	3.8295	95.86- 135.86	0.00
6.372	6.366	(0.006)	1240645	4.00000	3.8883	116.91- 156.91	0.00
7 241	7 240	(0.001)	2926873	4.00000	4.0459	120.00- 160.00	0.00
8.033	8.031	(0.002)	1276930	4.00000	4.0822	108.33- 148.33	0.00
Average of Peak Amounts =					3.9139		

678 532

Data File: \\xp1tpa02\chem\gc8.i\2191.b\H-A20619.D
 Date: 19-MAR-2001 14:21
 Client ID:
 Sample Info: XH1660,2191.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20620.D
Report Date: 19-Mar-2001 14:59

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20620.D
Lab Smp Id: 2M2154
Inj Date : 19-MAR-2001 14:41
Operator : 010139
Smp Info : 2M2154,2191.b
Misc Info : 190-120-10
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 14:59 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.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
..	*****	*****	*****	*****	*****	*****	*****
8 Aroclor-1221				CAS #: 11104-28-2			
1.466	1.464	(0 002)	31385	0.50000	0.56944	0.00-	0.00 0.00
1 990	1 987	(0 003)	42374	0.50000	0.53195	116.57-	156 57 0.00
2 189	2 186	(0 003)	84729	0.50000	0.55779	66.04-	106.04 0.00
Average of Peak Amounts =				0.55306	10.67-D		

\$ 1 Tetrachloro-m-xylene CAS #: 877-09-8
1 678 1.680 (-0 002) 9238 0.02500 0 0010206

\$ 34 Decachlorobiphenyl CAS #: 2051-24-3

Compound Not Detected

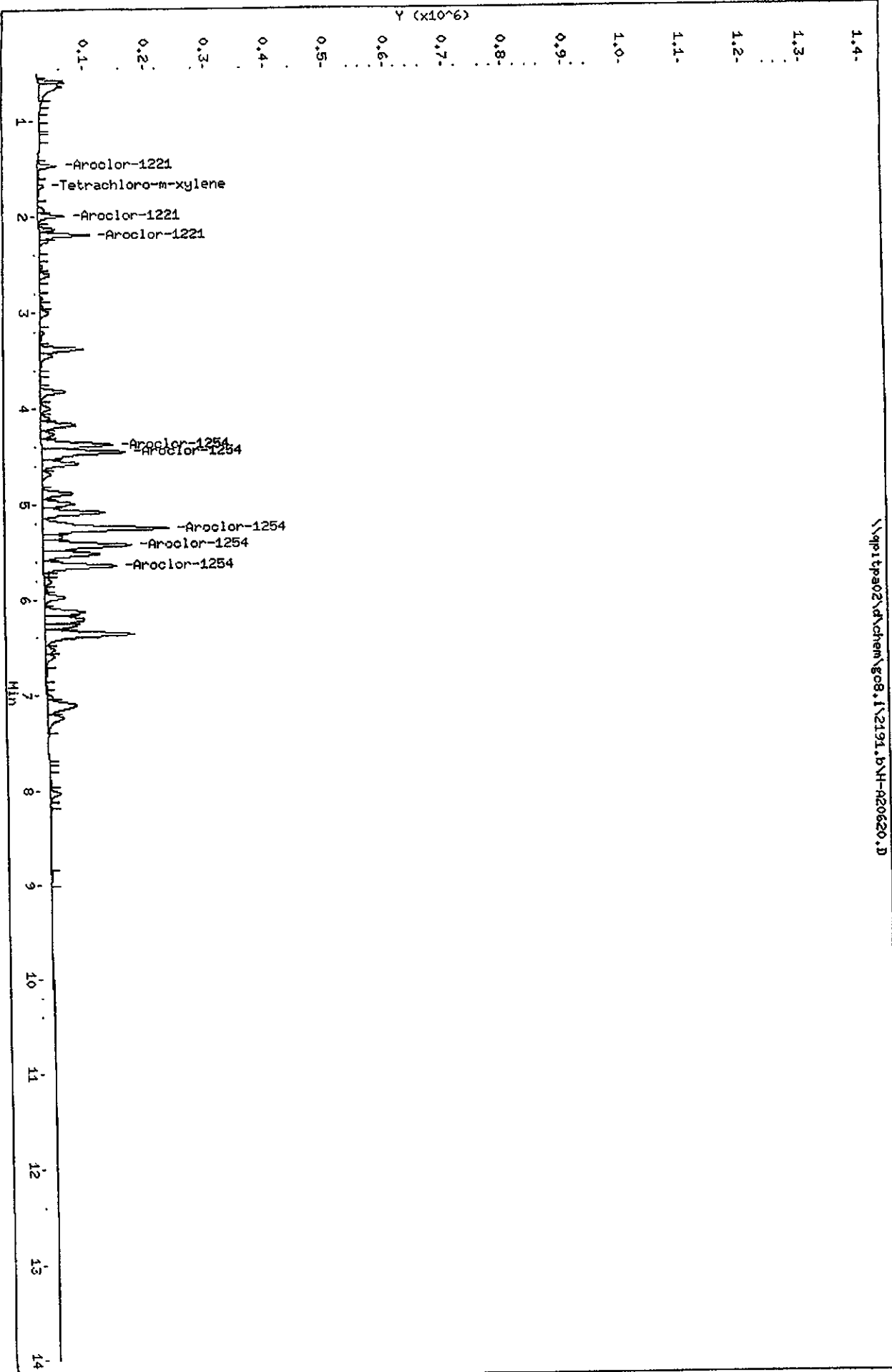
33 Aroclor-1254				CAS # 11097-69-1			
4 379	4 374	(0 005)	118865	0.50000	0.56511	0.00-	0 00 0.00
4 453	4 451	(0 002)	139191	0.50000	0.54928	92 23-	132.23 0 00
5 254	5 250	(0 004)	208829	0.50000	0.55863	77.40-	117 40 0 00
5.431	5.429	(0.002)	146397	0.50000	0.56741	51 09-	91.09 0 00
5.647	5 646	(0 001)	120675	0.50000	0.51382	65.01-	105 01 0 00
Average of Peak Amounts =				0.55085	10.27-D		

2nd
SOURCE

678 534

Data File: \\qpi1tpa02\chem\gc8.1\2191.b\H-A20620.D
 Date: 19-MAR-2001 14:41
 Client ID:
 Sample Info: 2H2154,2191.b
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20621.D
Lab Smp Id: 2M1232
Inj Date : 19-MAR-2001 15:01
Operator : 010139
Smp Info : 2M1232,2191.b
Misc Info : 190-120-11
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 15:22 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1232.sub
Target Version: 4.04 Sample Matrix: None
Processing Host: PITPC061

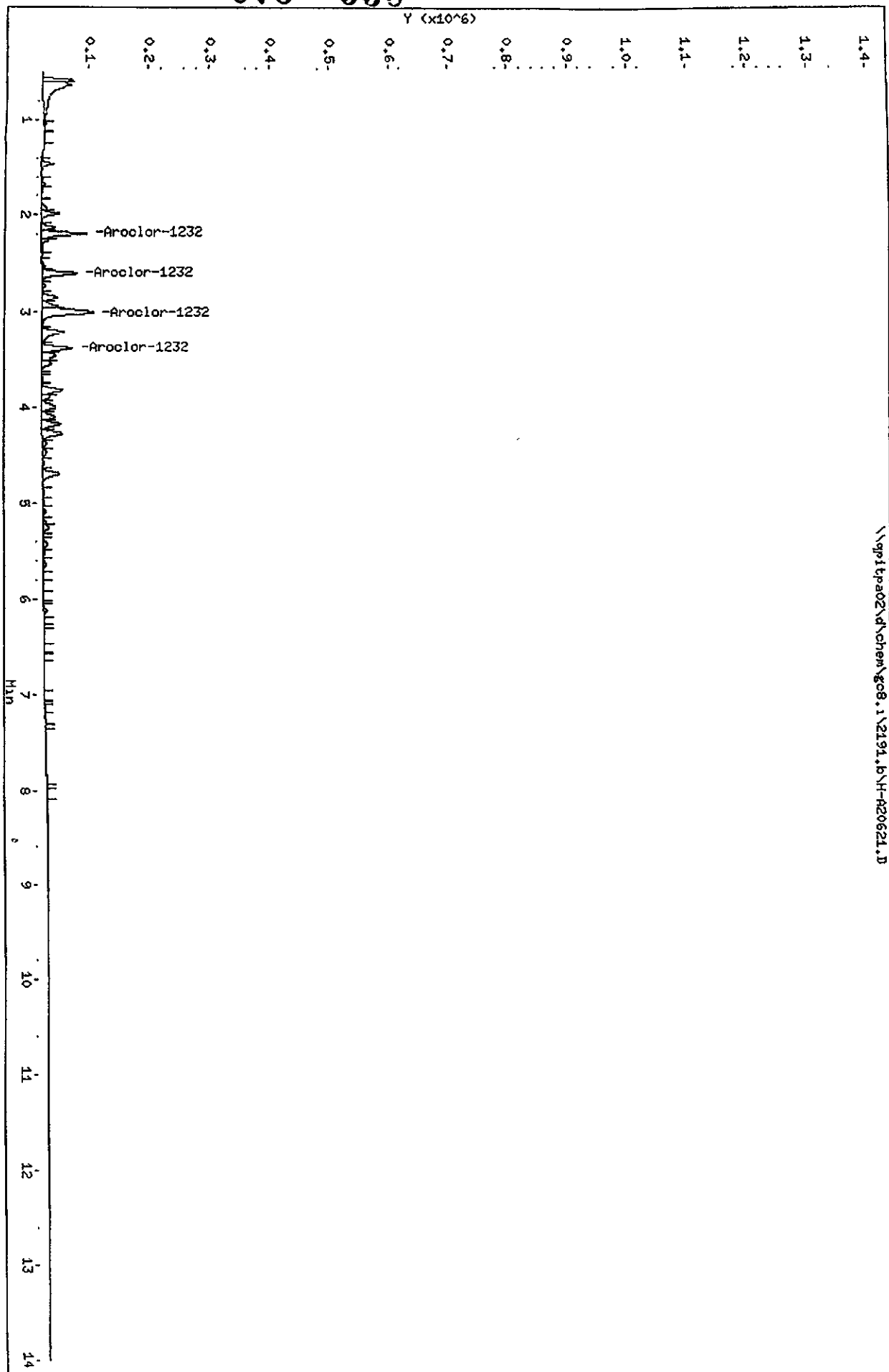
AMOUNTS								
			CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ng)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
14 Aroclor-1232					CAS # 11141-16-5			
2 188	2.188	(0 000)	74325	0.50000	0.69825	0.00- 0.00	0.00	
2 601	2 600	(0 001)	59625	0 50000	0 59761	146 26- 186 26	0.00	
3.009	3 008	(0 001)	85355	0 50000	0 59620	65 99- 105 99	0.00	
3.377	3.377	(0 000)	49931	0.50000	0.52510	74.18- 114 18	0.00	
Average of Peak Amounts =					0 60429	70.90% 70.90		

2nd
SOURCE

678 536

Data File: \\qpltpa02\chem\gc8.1\2191.b\H-A20621.D
 Date : 13-MAR-2001 15:01
 Client ID:
 Sample Info: 2H1232,2191.b
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20622.D
Lab Smp Id: 2M1242
Inj Date : 19-MAR-2001 15:21
Operator : 010139
Smp Info : 2M1242,2191.b
Misc Info : 190-120-12
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 16:09 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.D
Continuing Calibration Sample
Compound Sublist: 1242.sub
Sample Matrix: None

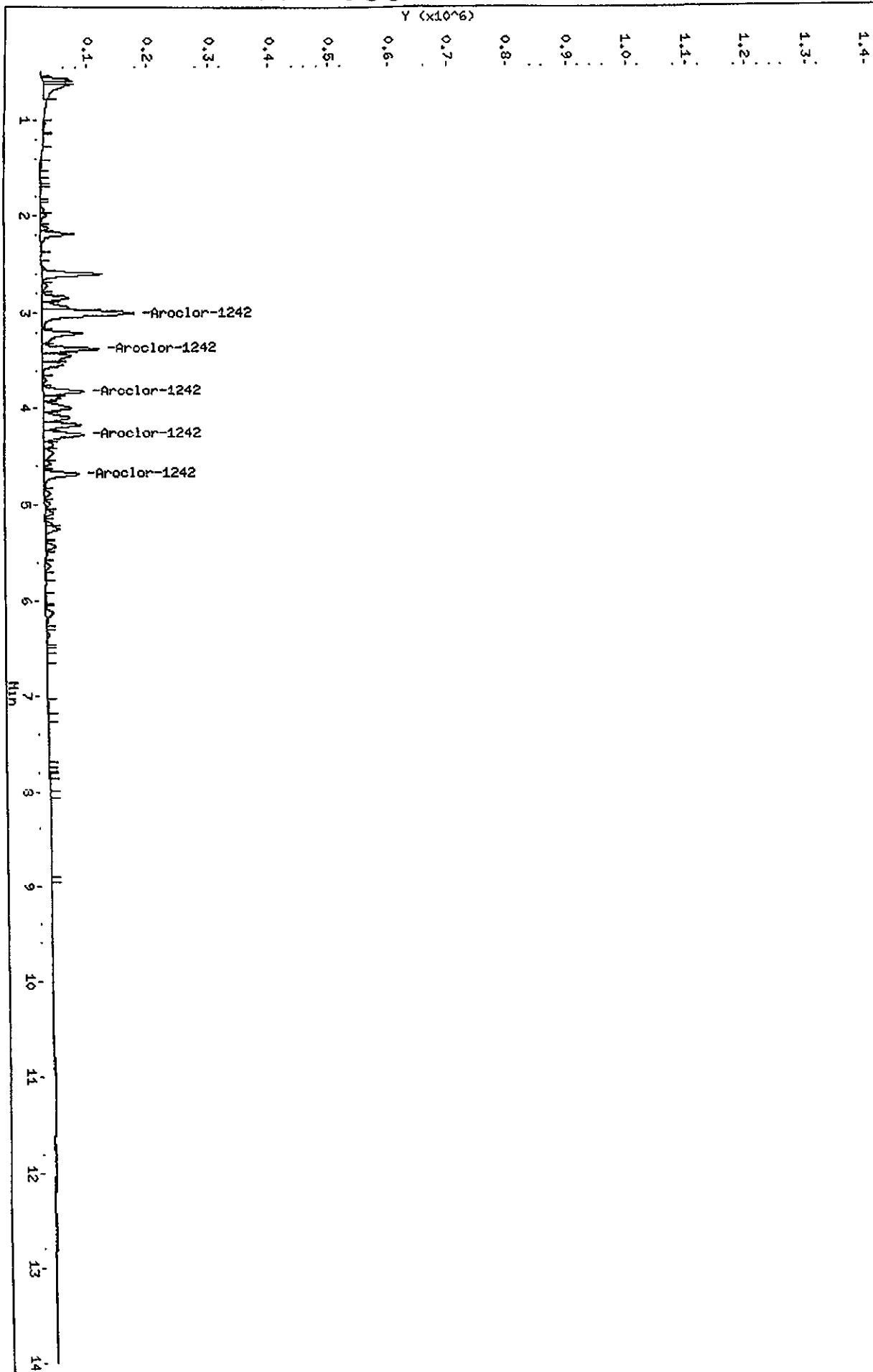
AMOUNTS								
		CAL-AMT		ON-COL				
RT	EXP RT	DLT RT	RESPONSE (	ng)	(	ng)	TARGET RANGE	RATIO
..								
15 Aroclor-1242				CAS #: 53469-21-9				
3 010	3 010	(0 000)	153222 0	50000	0.52515	0.00-	0.00	0 00
3 379	3.380	(-0 001)	93994 0.50000	0 52021	310 13-	350 13		0 00
3 818	3 818	(0 000)	67694 0	50000	0 50804	749 70-	789.70	0.00
4 269	4.269	(0 000)	67794 0	50000	0.51589	512.48-	552.48	0.00
4.684	4 682	(0 002)	56809 0	50000	0.50230	314.30-	354.30	0.00
Average of Peak Amounts =					0.51432	2.60.0		

2nd
SOURCE

Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-A20622.D
 Date : 19-MAR-2001 15:21
 Client ID:
 Sample Info: 2H1242,2191.b
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc8.1\2191.b\H-A20622.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20623.D
Lab Smp Id: 2M1248
Inj Date : 19-MAR-2001 15:41
Operator : 010139
Smp Info : 2M1248,2191.b
Misc Info : 190-120-13
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 16:09 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.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			
3 380	3 380	(0 000)	112005	0 50000	0 56641 0 00- 0 00	0 00
3 822	3.819	(0 003)	109870	0.50000	0.59011 114 57- 154.57	0.00
4.170	4 169	(0.001)	118777	0 50000	0.56206 63.67- 103 67	0 00
4 269	4.270	(-0 001)	115711	0.50000	0.59260 43 86- 83 86	0 00
4 683	4 685	(-0 002)	98131	0 50000	0 51320 128 08- 168 08	0.00
Average of Peak Amounts =			0 56488			

137-D

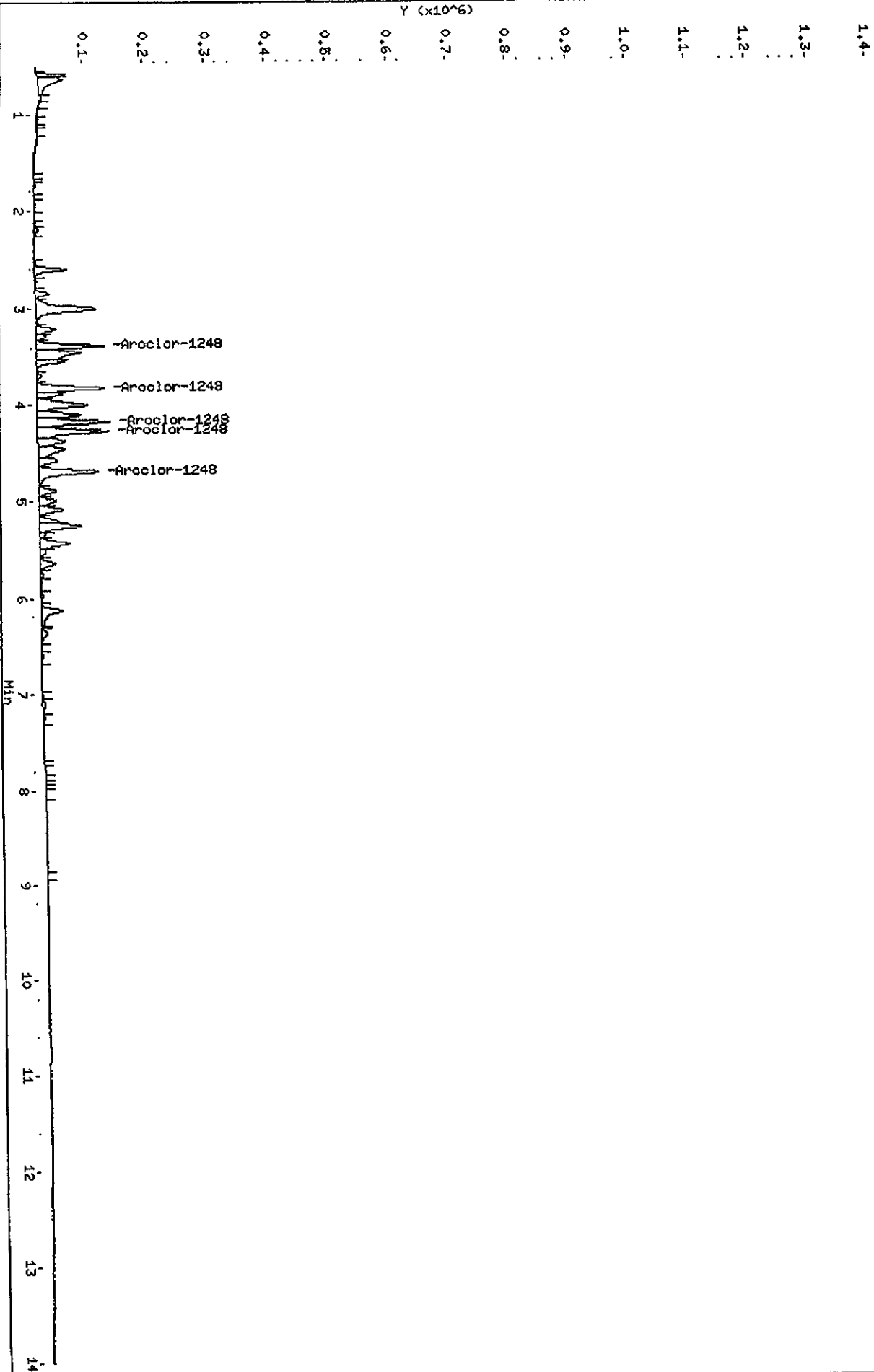
2nd
source

673 540

Data File: \\p1tpa02\chem\gc8.1\2191.b\H-A20623.D
Date: 19-MAR-2001 15:41
Client ID:
Sample Info: 214248, 2191.b
Column phase: DB608

Instrument: gc8.1
Operator: 010139
Column diameter: 0.53

\\p1tpa02\chem\gc8.1\2191.b\H-A20623.D



Data File: \\qpitpa02\d\chem\gc8.i\2191.b\H-A20624.D
Report Date: 19-Mar-2001 16:26

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20624.D
Lab Smp Id: 2M1660
Inj Date : 19-MAR-2001 16:00
Operator : 010139
Smp Info : 2M1660,2191.b
Misc Info : 190-120-14
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 19-Mar-2001 16:25 eppingerd
Cal Date : 19-MAR-2001 14:21
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

Inst ID: gc8.i
Quant Type: ESTD
Cal File: H-A20619.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	
2.189	2.190	(-0.001)	66194	0.50000	0.53085	0.00-	0.00	0.00
2.601	2.602	(-0.001)	130007	0.50000	0.53244	80.00-	120.00	0.00
3.009	3.009	(0.000)	201404	0.50000	0.53154	203.51-	243.51	0.00
3.379	3.380	(-0.001)	126129	0.50000	0.53554	203.51-	243.51	0.00
3.821	3.820	(0.001)	81607	0.50000	0.52672	297.56-	337.56	0.00
Average of Peak Amounts =					0.53142	6.37-D		

\$ 1 Tetrachloro-m-xylene							CAS #: 877-09-8	
Compound Not Detected								

\$ 34 Decachlorobiphenyl							CAS #: 2051-24-3	
10.604	10.603	(0.001)	1400	0.02500	0.00044416			

36 Aroclor-1260							CAS #: 11096-82-5	
5.527	5.525	(0.002)	177955	0.50000	0.56480	0.00-	0.00	0.00
5.649	5.650	(-0.001)	224961	0.50000	0.55858	95.86-	135.86	0.00
6.369	6.366	(0.003)	188520	0.50000	0.59084	116.91-	156.91	0.00
7.240	7.240	(0.000)	358759	0.50000	0.49593	120.00-	160.00	0.00
8.032	8.031	(0.001)	161796	0.50000	0.51725	108.33-	148.33	0.00
Average of Peak Amounts =					0.54548	9.17-D		

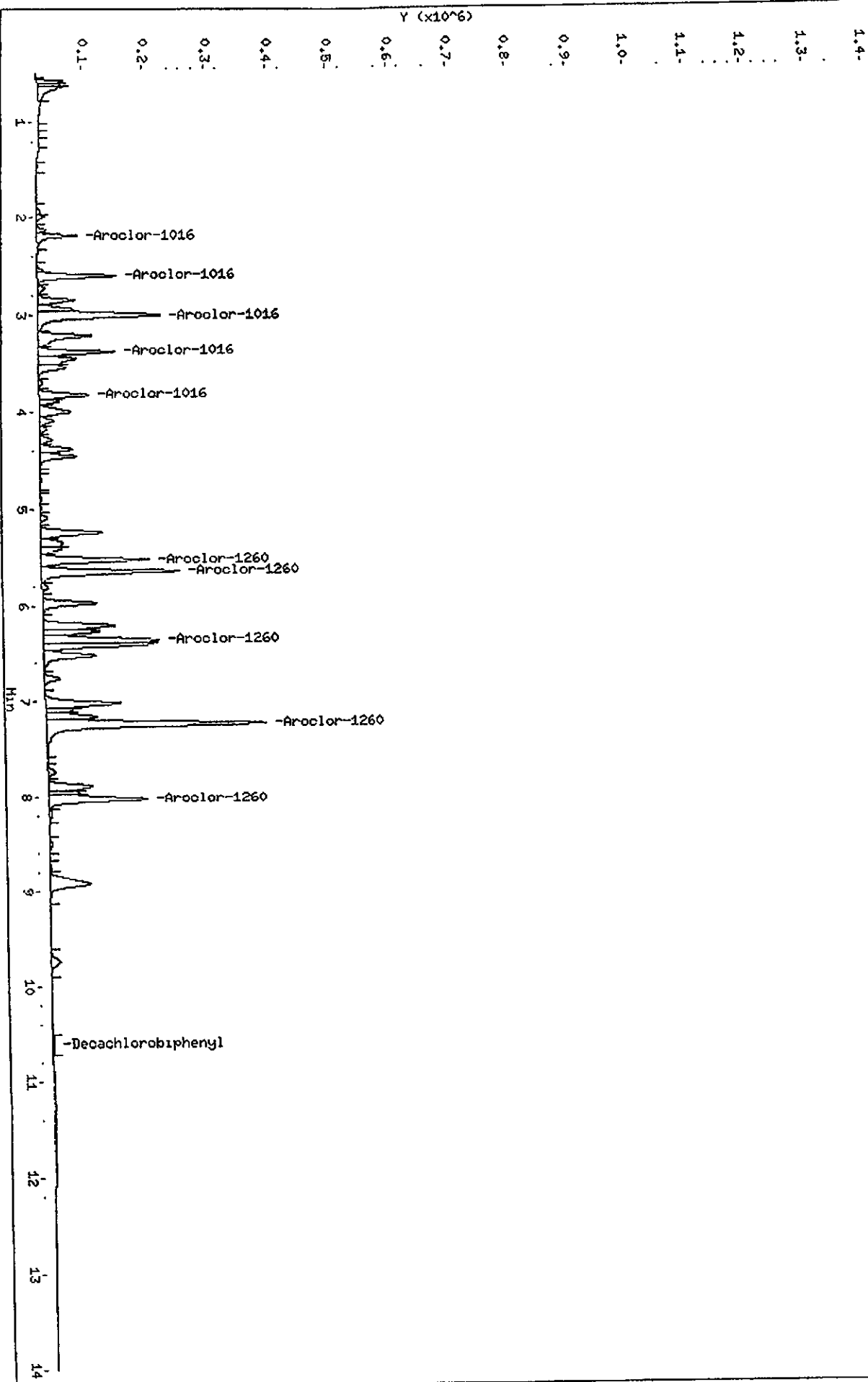
2nd
SOURCE

678 542

Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-A20624.D
 Date: 19-MAR-2001 16:00
 Client ID:
 Sample Info: 2H4660,2191.b
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc8.1\2191.b\H-A20624.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2191.b\H-A20641.D
Lab Smp Id: M1660
Inj Date : 19-MAR-2001 21:36
Operator : 010139
Smp Info : M1660,2191.b
Misc Info : 190-111-13
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2191.b\PCBA.m
Meth Date : 20-Mar-2001 08:29 eppingerd Quant Type: ESTD
Cal Date : 19-MAR-2001 14:21 Cal File: H-A20619.D
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC061

AMOUNTS							
		CAL-AMT		ON-COL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ng)	TARGET RANGE	RATIO
..							
20 Aroclor-1016					CAS # 12674-11-2		
2 189	2 190	(-0.001)	67908	0 50000	0 54459	0 00- 0 00	0 00
2 604	2 602	(0 002)	130265	0 50000	0 53350	80.00- 120 00	0 00
3 009	3 009	(0.000)	205360	0 50000	0 54198	203 51- 243 51	0 00
3 380	3 380	(0 000)	124694	0 50000	0 52945	203.51- 243.51	0.00
3.821	3.820	(0 001)	81782	0.50000	0 52785	297.56- 337.56	0.00
Average of Peak Amounts =					0 53547		

\$ 1 Tetrachloro-m-xylene					CAS # 877-09-8		
1.680	1 680	(0.000)	239548	0.02500	0 026464		

\$ 34 Decachlorobiphenyl					CAS #: 2051-24-3		
10 605	10 603	(0 002)	82297	0.02500	0 026109		

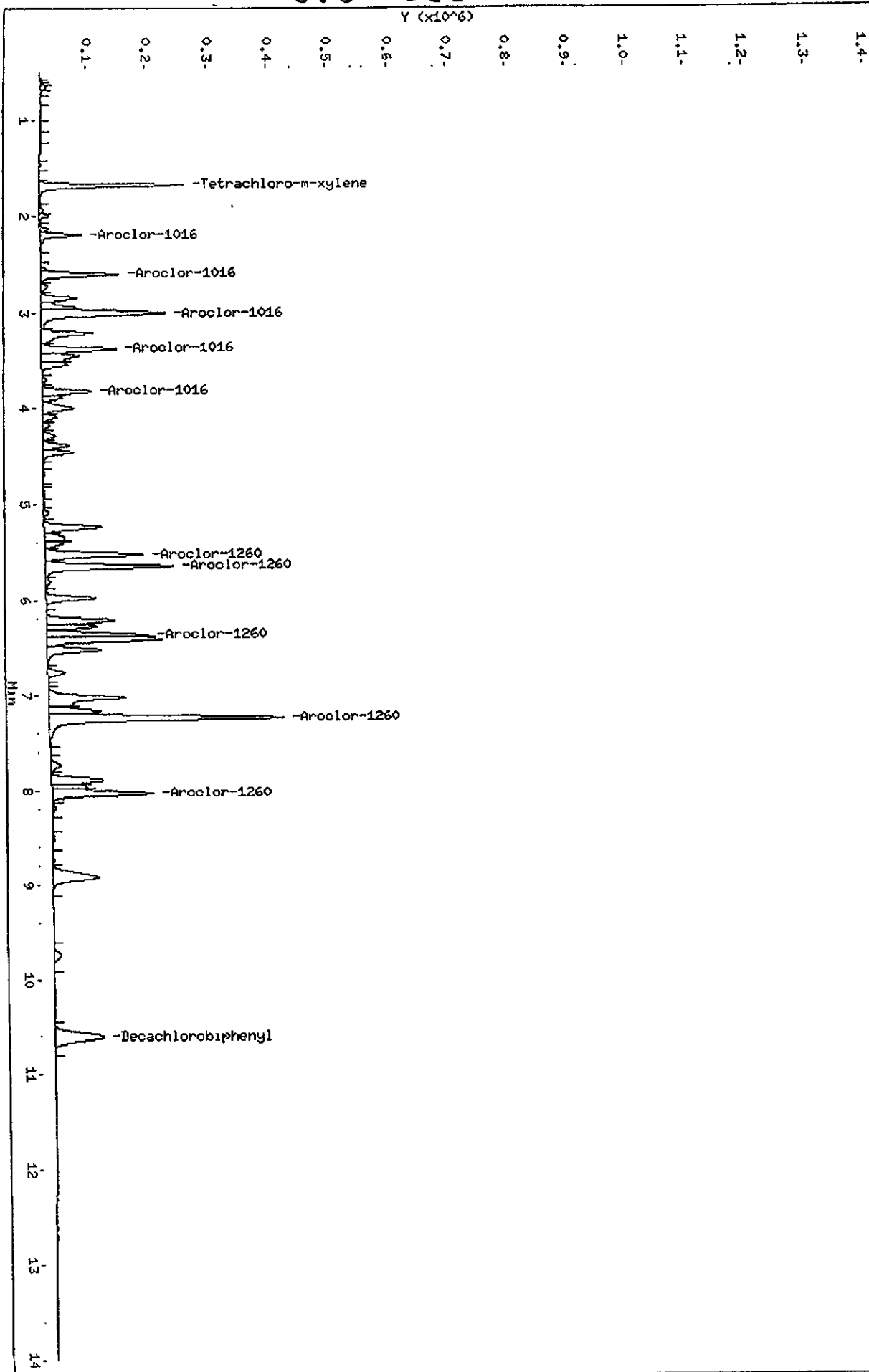
36 Aroclor-1260					CAS #: 11096-82-5		
5.526	5 525	(0 001)	163102	0.50000	0 51766	0 00- 0 00	0 00
5 650	5.650	(0 000)	213379	0.50000	0.52983	95.86- 135 86	0.00
6.372	6.366	(0.006)	168983	0.50000	0.52961	116 91- 156.91	0 00
7 242	7 240	(0.002)	384767	0 50000	0 53188	120 00- 160 00	0.00
8 034	8 031	(0.003)	167068	0 50000	0.53410	108 33- 148 33	0.00
Average of Peak Amounts =					0 52862		

678 544

Data File: \\pp1tpa02\chem\gc8.1\2191.b\H-A20641.D
 Date: 19-MAR-2001 21:36
 Client ID:
 Sample Info: H1660,2191.b
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc8.1\2191.b\H-A20641.D



678 545

PCB
QC DATA

678 546

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C160000 419

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/16/01

Work Order: DXJP61AA

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075419

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

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20605.D
 Report Date: 19-Mar-2001 08:23

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20605.D
 Lab Smp Id: DXJP61AA Client Smp ID: PBLK5419
 Inj Date : 16-MAR-2001 20:09
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DXJP61AA,2131.b
 Misc Info : 160211-BLK
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 19-Mar-2001 08:21 matkol Quant Type: ESTD
 Cal Date : 13-MAR-2001 13:01 Cal File: H-A20474.D
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PCB.sub
 Target Version: 4.04 Sample Matrix: WATER
 Processing Host: PITPC044

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
			RESPONSE (ng)	(ug/L)		
\$ 1	1 680	1 680 (0 000)	160854 0 01575	0.15755		

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)

673 548

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20605.D
Report Date: 19-Mar-2001 08:23

Page 2

		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)					

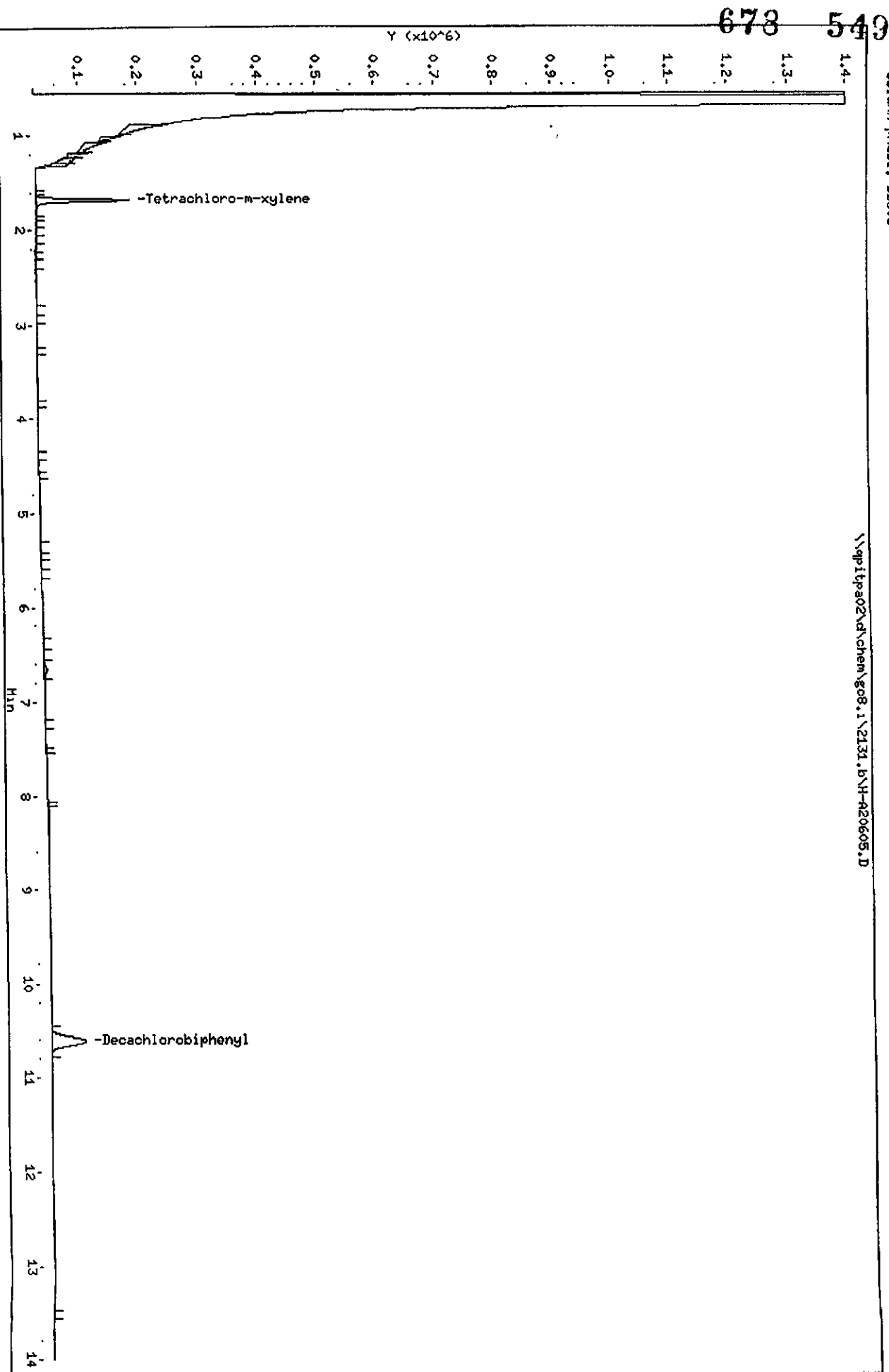
\$ 34	Decachlorobiphenyl	CAS #: 2051-24-3			
10 610	10 614 (-0 004)	58865 0 01697	0 16974		

36	Aroclor-1260	CAS #: 11096-82-5			
Peaks not detected for Quant or Qual signal(s).					

Data File: \\qpltpa02\chem\gc8.1\2131.b\H-A20605.D
 Date: 16-Mar-2001 20:09
 Client ID: PBLK5419
 Sample Info: DXJP6106,2131.b
 Volume Injected (uL): 1.0
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53

\\qpltpa02\chem\gc8.1\2131.b\H-A20605.D



673 559

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C160000 419

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/16/01

Work Order: DXJP61AC

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075419

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) ug/L	Q
12674-11-2	Aroclor 1016	7.38	
11096-82-5	Aroclor 1260	7.97	

678 551

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20606.D
Lab Smp Id: DXJP61AC Client Smp ID: LCS5419
Inj Date : 16-MAR-2001 20:28
Operator : 010139 Inst ID: gc8.i
Smp Info : DXJP61AC,2131.b
Misc Info : 160211-LCS
Comment : 8082 PCB ANALYSIS
Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
Meth Date : 19-Mar-2001 08:21 matkol Quant Type: ESTD
Cal Date : 13-MAR-2001 13:01 Cal File: H-A20474.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: PCB.sub
Target Version: 4.04 Sample Matrix: WATER
Processing Host: PITPC044

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							
1.679	1.680 (-0.001)	148262 0 01452	0 14522				

8 Aroclor-1221		CAS #: 11104-28-2					
1 465	1 465 (0.000)	1308 0.01954	0 19544 0 00- 0.00	0 00			
1 990	1 990 (0.000)	21509 0 22464	2 2464 116 57- 156.57	0 00			
2 188	2 190 (-0.002)	102637 0 55371	5 5370 66 04- 106 04	0 00			
Average of Peak Concentrations =		2.6596					

14 Aroclor-1232		CAS # 11141-16-5					
2 188	2.190 (-0.002)	102637 0 77258	7.7258 0 00- 0.00	0 00			
2 602	2 603 (-0.001)	201135 1.68058	16.806 146.26- 186.26	0 00			
3 011	3 010 (0.001)	318406 1.82759	18.276 65 99- 105 99	0 00			
3.380	3 381 (-0.001)	198622 1 72505	17.250 74 18 114 18	0.00			
Average of Peak Concentrations =		15.014					

cm
3/19/01

CONCENTRATIONS							
			ON-COL	FINAL			
RT	EXP RT	DLT RT	RESPONSE (	ng)	(ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====
15 Aroclor-1242					CAS #: 53469-21-9		
3 011	3 012	(-0.001)	318406	0.91204	9.1204	0.00- 0.00	0.00
3 380	3.380	(0.000)	198622	0.93899	9.3899	310.13- 350.13	0.00
3 821	3 822	(-0.001)	130299	0.83816	8.3816	749.70- 789.70	0.00
4 281	4.272	(0.003)	33354	0.20924	2.0924	512.48- 552.48	0.00
4 685	4.687	(-0.002)	5097	0.03682	0.36815	314.30- 354.30	0.00
Average of Peak Concentrations =					5.8705		

20 Aroclor-1016				CAS #: 12674-11-2			
2 188	2.191	(-0.003)	102637 0.72168	7.2168	0.00-	0.00	0.00
2 602	2 602	(0.000)	201135 0.73620	7.3620	80.00-	120.00	0.00
3 011	3 011	(0.000)	318406 0.73648	7.3648	203.51-	243.51	0.00
3 380	3.382	(-0.002)	198622 0.74534	7.4534	203.51-	243.51	0.00
3.821	3.822	(-0.001)	130299 0.74860	7.4860	297.56-	337.56	0.00
Average of Peak Concentrations =				7.3766			

LM
3/19/01

21 Aroclor-1248				CAS #: 12672-29-6			
3 380	3.382	(-0.002)	198622 0.87162	8.7162	0.00-	0.00	0.00
3.821	3.823	(-0.002)	130299 0.59967	5.9967	114.57-	154.57	0.00
4 170	4.173	(-0.003)	19891 0.07949	0.79486	63.67-	103.67	0.00
4 281	4.272	(0.009)	33354 0.14058	1.4058	43.86-	83.86	0.00
4 685	4.689	(-0.004)	5097 0.02160	0.21604	128.08-	168.08	0.00
Average of Peak Concentrations =				3.4259			

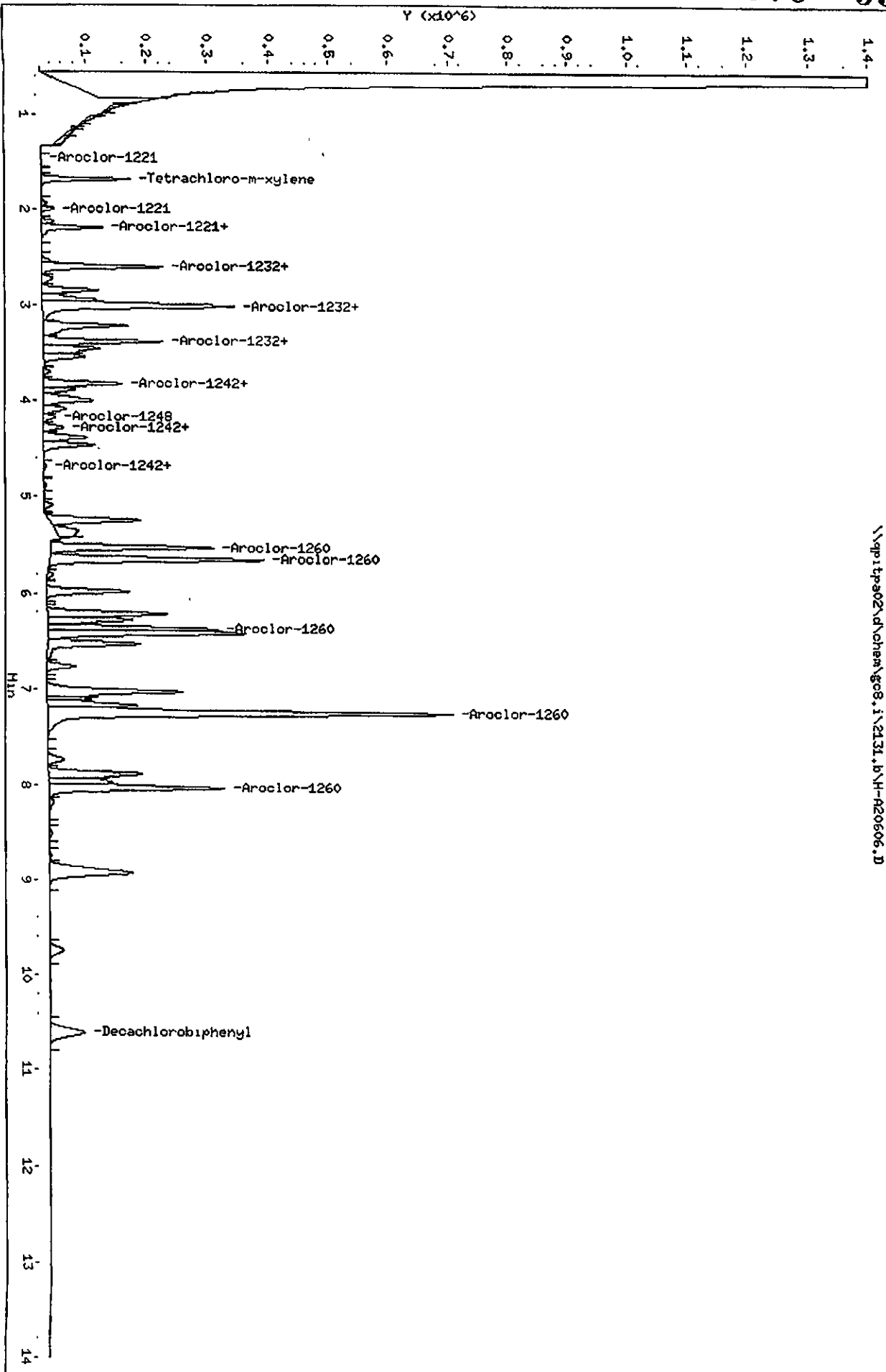
33 Aroclor-1254

CAS # 11097-69-1

Peaks not detected for Quant or Qual. signal(s).

\$ 34 Decachlorobiphenyl				CAS # 2051-24-3			
10.611	10 614	(-0.003)	57749 0.01665	0.16652			

36 Aroclor-1260				CAS #	11096-82-5		
5.529	5.528	(0.001)	269358 0.77085	7.7084	0.00-	0.00	0.00
5.651	5.653	(-0.002)	353744 0.78379	7.8379	95.86-	135.86	0.00
6.369	6.378	(-0.009)	282490 0.78594	7.8594	116.91-	156.91	0.00
7.244	7.247	(-0.003)	675690 0.82105	8.2105	120.00-	160.00	0.00
8.036	8.040	(-0.004)	291360 0.82118	8.2118	108.33-	148.33	0.00
Average of Peak Concentrations =				7.9656			



Data File: \\pp1tpa02\chem\gc8.i\2131.b\H-A20606.D
 Date: 16-MAR-2001 20:28
 Client ID: LCS6419
 Sample Info: DXJP64RC, 2131.b
 Volume Injected (uL): 1.0
 Column phase: DB608

Instrument: gc8.i
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc8.i\2131.b\H-A20606.D

673 554

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C160000 419

Method: SW846 8082

PCBs (8082)

Sample WT/Vol: 1000 / mL

Date Received: 03/16/01

Work Order: DXJP61AD

Date Extracted: 03/16/01

Dilution factor: 1

Date Analyzed: 03/16/01

Moisture %: NA

QC Batch: 1075419

Client Sample Id: DUPLICATE CHECK

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
12674-11-2	Aroclor 1016		7.36	
11096-82-5	Aroclor 1260		7.58	

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20607.D
 Report Date: 19-Mar-2001 08:23

Page 1

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc8.i\2131.b\H-A20607.D
 Lab Smp Id: DXJP61AD Client Smp ID: LCD5419
 Inj Date : 16-MAR-2001 20:48
 Operator : 010139 Inst ID: gc8.i
 Smp Info : DXJP61AD,2131.b
 Misc Info : 160211-LCD
 Comment : 8082 PCB ANALYSIS
 Method : \\qpitpa02\d\chem\gc8.i\2131.b\PCBA.m
 Meth Date : 19-Mar-2001 08:21 matkol Quant Type: ESTD
 Cal Date : 13-MAR-2001 13:01 Cal File: H-A20474.D
 Als bottle: 8 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PCB.sub
 Target Version: 4.04 Sample Matrix: WATER
 Processing Host: PITPC044

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
---	-----	-----	RESPONSE (ng)	(ug/L)	-----	-----
\$ 1 Tetrachloro-m-xylene CAS # 877-09-8						
1 680	1 680	(0.000)	145747 0 01428	0.14275		

8 Aroclor-1221 CAS # 11104-28-2						
1.465	1 465	(0 000)	1166 0.01742	0 17423	0 00- 0.00	0.00
1.991	1 990	(0 001)	21111 0 22048	2 2048	116.57- 156.57	0 00
2 190	2 190	(0 000)	101426 0.54717	5 4717	66.04- 106.04	0 00
Average of Peak Concentrations =			2 6169			

14 Aroclor-1232 CAS # 11141-16-5						
2.190	2 190	(0 000)	101426 0.76346	7.6346	0 00- 0.00	0.00
2 602	2.603	(-0.001)	199089 1 66348	16 635	146 26- 186 26	0.00
3 009	3 010	(-0 001)	318427 1 82771	18.277	65.99- 105 99	0 00
3 380	3 381	(-0 001)	199006 1 72838	17.284	74.18- 114 18	0 00
Average of Peak Concentrations =			14 958			

mm
3/19/01

678 556

Data File: \\qpitpa02\d\chem\gc8.i\2131.b\H-A20607.D
Report Date: 19-Mar-2001 08:23

Page 2

CONCENTRATIONS						
RT	EXP RT	DLT RT	RESPONSE (ng)	ON-COL	FINAL	TARGET RANGE
---	-----	-----	-----	-----	-----	-----
15 Aroclor-1242			CAS #: 53469-21-9			
3 009	3 012	(-0.003)	318427 0.91210	9.1210	0.00-	0.00
3 380	3 380	(0.000)	199006 0.04080	9.4080	310.13-	350.13
3 822	3.822	(0.000)	131653 0.84687	8.4687	749.70-	789.70
4 280	4 272	(0.008)	34621 0.21718	2.1718	512.48-	552.48
4 685	4.687	(-0.002)	5574 0.04026	0.4026	314.30-	354.30
Average of Peak Concentrations =			5.9144			

20 Aroclor-1016			CAS #: 12674-11-2			
2 190	2 191	(-0.001)	101426 0.71317	7.1317	0.00-	0.00
2 602	2.602	(0.000)	199089 0.72871	7.2871	80.00-	120.00
3 009	3 011	(-0.002)	318427 0.73653	7.3653	203.51-	243.51
3 380	3.382	(-0.002)	199006 0.74679	7.4678	203.51-	243.51
3 822	3.822	(0.000)	131653 0.75638	7.5638	297.56-	337.56
Average of Peak Concentrations =			7.3631			

mm
3/19/01

21 Aroclor-1248			CAS #: 12672-29-6			
3 380	3.382	(-0.002)	199006 0.87331	8.7331	0.00-	0.00
3 822	3.823	(-0.001)	131653 0.60590	6.0590	114.57-	154.57
4 171	4.173	(-0.002)	21771 0.08700	0.86999	63.67-	103.67
4 280	4.272	(0.008)	34621 0.14592	1.4592	43.86-	83.86
4 685	4.689	(-0.004)	5574 0.02363	0.23626	128.08-	168.08
Average of Peak Concentrations =			3.4715			

33 Aroclor-1254

CAS #: 11097-69-1

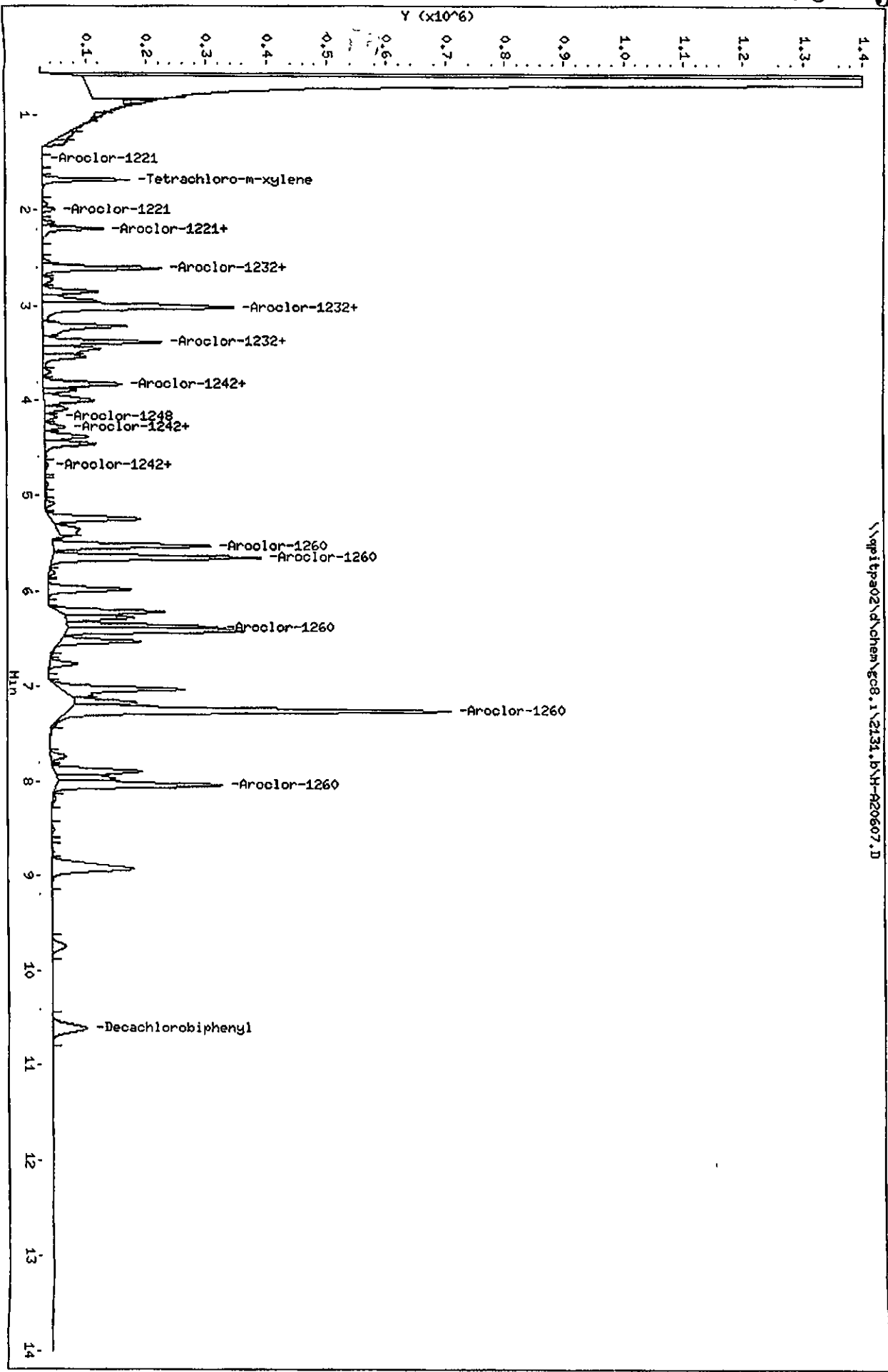
Peaks not detected for Quant. or Qual. signal(s)

\$ 34 Decachlorobiphenyl			CAS #: 2051-24-3			
10 610	10 614	(-0.004)	57252 0.01651	0.16508		

36 Aroclor-1260			CAS #: 11096-82-5			
5 527	5 528	(-0.001)	262805 0.75209	7.5209	0.00-	0.00
5 653	5.653	(0.000)	348723 0.77266	7.7266	95.86-	135.86
6 380	6.378	(0.002)	251892 0.70081	7.0081	116.91-	156.91
7 245	7.247	(-0.002)	640702 0.77853	7.7853	120.00-	160.00
8 036	8 040	(-0.004)	278235 0.78419	7.8419	108.33-	148.33
Average of Peak Concentrations =			7.5766			

Data File: \\ppltpa02\chem\gc8.1\2131.b\H-020607.D
 Date: 16-MAR-2001 20:48
 Client ID: LCD5419
 Sample Info: DXJP61AD,2131.b
 Volume Injected (uL): 1.0
 Column phase: DB608

Instrument: gc8.1
 Operator: 010139
 Column diameter: 0.53



678 . 558

PCB
MISCELLANEOUS

STL Pittsburgh

Logbook ID: OP43

Baker

[illegible]

Sulfate Mgt Lot Number
69681 V07599

Date: 3-16-01

Control: DE 3-13-01

Sequence Table (Front Injector):

M

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	1	8082 ANALYSIS
2	2	RINSE
3	3	190-111-7 465
4	4	190-111-8
5	5	190-111-9
6	6	190-111-10
7	7	190-111-11
8	8	190-111-12 470
9	9	190-111-13
10	10	190-111-14
11	11	190-112-1
12	12	190-112-2
13	13	190-120-10 475
14	14	190-120-11
15	15	190-120-12
16	16	190-120-13
17	17	190-120-14
18	18	080118017 480
19	19	080118018
20	20	070114001
21	21	080160002
22	22	080160004
23	23	080160BLK 485
24	24	080160LCS
25	25	080160LCD

Line	Vial	Vial Information
====	====	=====
26	26	090239001
27	27	090239001S
28	28	090239001D 490
29	29	090162001
30	30	090162002
31	31	090162003
32	32	090162004
33	33	090162005 495
34	34	090162006
35	35	090162007
36	36	090239BLK
37	37	090239LCS
38	38	190-111-13 500
39	39	090162008
40	40	090162009
41	41	090162016
42	42	090162017
43	43	090162018 505
44	44	090162022
45	45	090162023
46	46	100131004
47	47	100131005
48	48	100131007 510
49	49	090283001
50	50	090283002
51	51	090283003
52	52	090283BLK
53	53	090283LCS 515

Line	Vial	Vial Information

====	====	=====

54	54	090283LCD

55	55	190-111-13 517

Sequence Table (Back Injector):

No entries - empty table!

Created LM 3/16/01

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information

=====	=====	=====

1	1	190-111-13 600

2	2	160211-2

3	3	160211-001

4	4	160211-BLK

5	5	160211-LCS

6	6	160211-BLK 605

7	7	160211-LCS

8	8	160211-LCD

9	9	190-111-13

Sequence Table (Back Injector):

No entries - empty table!

Created: DE 3-19-01

Sequence Table (Front Injector):

Vial Information Part:

Line Vial Vial Information

Line	Vial	Vial Information
1	1	8082 ANALYSIS
2	2	190-111-7 610
3	3	190-111-8
4	4	190-111-9
5	5	190-111-10
6	6	190-111-11
7	7	190-111-12 615
8	8	190-111-13
9	9	190-111-14
10	10	190-112-1
11	11	190-112-2
12	12	190-120-10 620
13	13	190-120-11
14	14	190-120-12
15	15	190-120-13
16	16	190-120-14
17	17	150168002 625
18	18	150168002S
19	19	150168002D
20	20	140122001
21	21	140122002
22	22	140122003 630
23	23	140122004
24	24	150161001
25	25	150161002

Line	Vial	Vial Information
====	====	=====
26	26	150161003
27	27	150161004 635
28	28	150161005
29	29	150161012
30	30	150161013
31	31	150161014
32	32	150304001 640
33	33	190-111-13
34	34	608BLK3
35	35	1248#1
36	36	1248#2
37	37	1248#3 645
38	38	1248#4
39	39	1248#5
40	40	1248#6
41	41	1248#7
42	42	1248#8 650
43	43	1248#9
44	44	190-111-13
45	45	1660#1
46	46	1660#2
47	47	1660#3 655
48	48	1660#4
49	49	1660#5
50	50	1660#6
51	51	1660#7
52	52	1660#8 660
53	53	1660#9

Line	Vial	Vial Information

====	====	=====

54	54	190-111-13 <i>662</i>

Sequence Table (Back Injector):

No entries - empty table!

REQUESTED BY. YUSHINSC

METHOD QH PCBs (8082)

STORAGE LOCATION	WORK ORDER #	PICKED			CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SPX	MATRIX DESCRIPTION	QTY	
		CNTR#										RCVD	REQD
11C CLP1	DXGMH-1-AE	___	___	___	320864	39941J	I-09-QH	C1C150304	001		WATER	0	13 1
12B CLP1	DXH3H-1-AD	___	___	___	320865	002532	I-09-QH	C1C160211	001		WATER	0	8 1
~~12B CLP1~~	~~DXH3M-1-AE~~	~~___~~	~~___~~	~~___~~	~~320866~~	~~002532~~	~~A-13-QH~~	~~C1C160211~~	~~002~~		~~SOLID~~	~~0~~	~~5 1~~

C. Yushinski
3-16-01

*Used 1 liter per sample
and empty bottles were
thrown away!*

C. Yushinski
3-15-01

RELINQUISHED BY

C. Yushinski
C. Yushinski

RECEIVED BY

C. Yushinski
C. Yushinski

DATE/TIME

3-15-01 1538
3-15-01 2050

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

678 563

HERBICIDE DATA

HERBICIDE
QC SUMMARY

673 570 2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C1C150304
GC Column(1): RTX-50 ID: 0.53 (mm) GC Column(2): DB1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	S2 1 %REC #	S2 2 %REC #	S3 1 %REC #	S3 2 %REC #	TOT OUT
01	DF/24-B/1073	69	180*					1
02	LCS8453	80						0
03	LCD8453	77						0
04	PBLK8453	76	77					0
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								

ADVISORY
QC LIMITS
(53-119)

S1 = DCAA

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

678 571

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STL PIT

SDG No:

Lot #: C1C190000

WO #: DXLRA1AC

BATCH: 1078453

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	11.0	69	46 - 124	
2,4,5-TP (Silvex)	4.00	2.94	73	53 - 127	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

678 572

SW846 8151A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: STLPIIT

SDG No:

Lot #: C1C190000

WO #: DXLRA1AD

BATCH: 1078453

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	16.0	8.84	55	46 - 124	p
2,4,5-TP (Silvex)	4.00	2.95	74	53 - 127	

NOTES(S):

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

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

678 573

EPA SAMPLE NO.

PBLK8453

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab Sample ID: DXLRA1AA

Lab File ID: A-A20312

Matrix (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SW846 8151A

Sulfur Cleanup (Y/N) N

Date Extracted: 03/19/01

Date Analyzed (1): 03/21/01

Date Analyzed (2): 03/21/01

Time Analyzed (1): 1830

Time Analyzed (2): 1932

Instrument ID (1): GC1

Instrument ID (2): GC1

GC Column (1): RTX-50 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/24-B/1073	DXGMH1CC	03/21/01	03/21/01
02	LCS8453	DXLRA1AC	03/21/01	
03	LCD8453	DXLRA1AD	03/21/01	
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

673 574

HERBICIDE
SAMPLE DATA

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C150304 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXGMH1CC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078453

Client Sample Id: DF/24-B/1073/IDW/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	ug/L	
94-75-7	2,4-D		4.0	U
93-72-1	2,4,5-TP (Silvex)		2.1	

673 576

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20309.D
 Report Date: 22-Mar-2001 07:57

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20309.D
 Lab Smp Id: DXGMH1CC Client Smp ID: DF/24-B/1073/IDW/00
 Inj Date : 21-MAR-2001 16:56 Inst ID: gc1.i
 Operator : 010139
 Smp Info : DXGMH1CC,2151.b
 Misc Info : 150304001
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 22-Mar-2001 07:42 MorganW Quant Type: ESTD
 Cal Date : 15-MAR-2001 18:34 Cal File: A-A20279.D
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC003

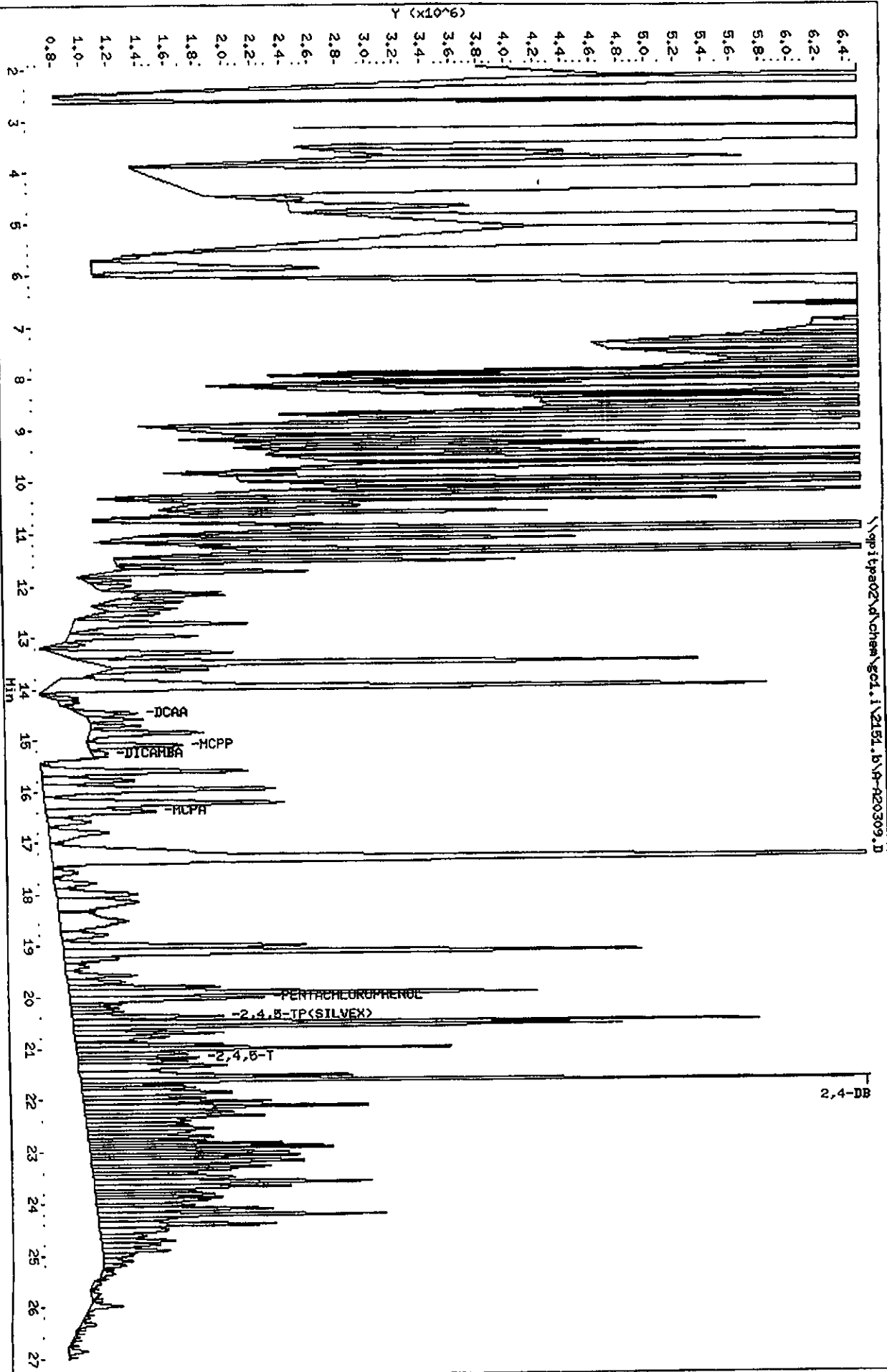
Concentration Formula: $\text{Amt} * \text{DF} * 20 * \text{Vt} / \text{Vo} / \text{Vi}$

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						
				Compound Not Detected.		
2 DCAA	14.464	14.456	0.008	2167124	0.03465	6.930
3 MCPP	15.097	15.087	0.010	672375	7.49293	1498
4 DICAMBA	15.247	15.270	-0.023	112876	0.00267	0.5349
5 MCPA	16.389	16.434	-0.045	779000	7.34258	1468
6 DICHLOROPROP						
				Compound Not Detected.		
7 2,4-D						
				Compound Not Detected.		
8 PENTACHLOROPHENOL	20.010	19.981	0.029	1375232	0.00510	1.020
9 2,4,5-TP(SILVEX)	20.384	20.387	-0.003	4892308	0.01419	2.838
10 2,4,5-T	21.178	21.164	0.014	2543703	0.00848	1.696
11 DINOSEB						
				Compound Not Detected.		
12 2,4-DB	21.627	21.635	-0.008	18953856	0.51919	103.8

Data File: \\spitpa02\chem\gc1.1\2151.b\A-A20309.D
 Date: 24-MAR-2001 16:56
 Client ID: DF/24-B/1073/IDM/00
 Sample Info: DUCHMCC, 2151.b
 Volume Injected (uL): 1.0
 Column phase: RTX-50

Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53



673 573

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20338.D
 Report Date: 22-Mar-2001 07:38

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20338.D
 Lab Smp Id: DXGMH1CC Client Smp ID: DF/24-B/1073/IDW/00
 Inj Date : 21-MAR-2001 17:58
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXGMH1CC,2151A.b
 Misc Info : 150304001
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 22-Mar-2001 07:09 MorganW Quant Type: ESTD
 Cal Date : 15-MAR-2001 19:05 Cal File: A-B20280.D
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC003

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	5.088	5.092	-0.004	183967673	17.1068	3421
\$ 2 DCAA	13.127	13.094	0.033	4190215	0.09005	18.01 (RM)
3 DICAMBA	13.656	13.689	-0.033	320698	0.00788	1.575 (M)
4 MCPP	14.076	14.132	-0.056	253796	6.81598	1363 (M)
5 MCPA	15.022	15.009	0.013	459228	9.08310	1817
6 DICHLOROPROP	16.175	16.150	0.025	87523	0.01028	2.055
7 2,4-D	17.648	17.642	0.006	69071	0.00801	1.601
8 PENTACHLOROPHENOL	Compound Not Detected.					
9 2,4,5-TP (SILVEX)	19.752	19.772	-0.020	964940	0.01053	2.105
10 2,4,5-T	20.587	20.543	0.044	367174	0.00379	0.7572
11 2,4-DB	21.111	21.122	-0.011	293332	0.02023	4.047
12 DINOSEB	21.799	21.828	-0.029	736295	0.00793	1.586

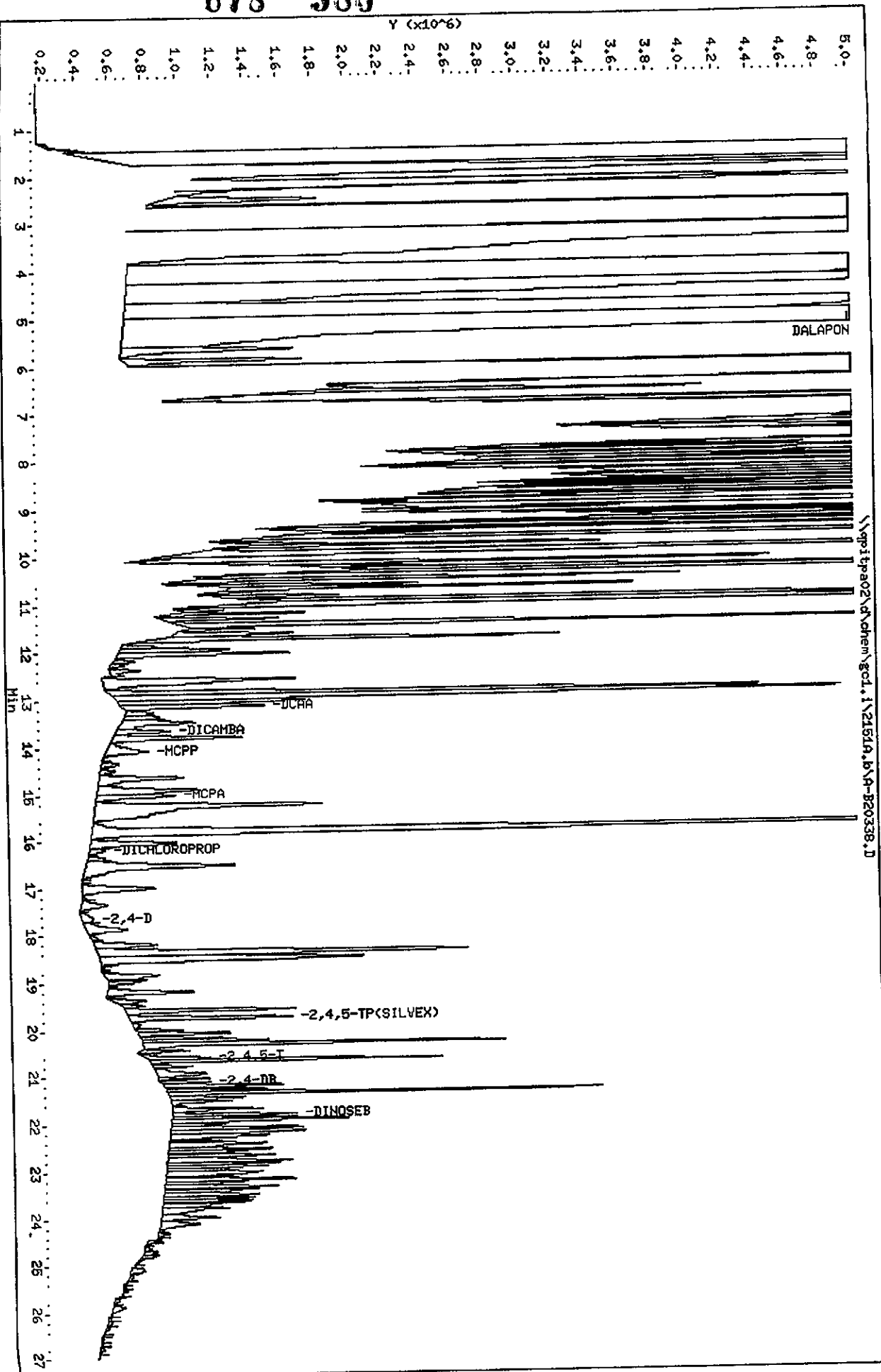
Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20338.D
Report Date: 22-Mar-2001 07:38

678 579

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

678 580



Data File: \\p1p202\chem\gcl.1\2151A.b\A-B20338.D
 Date: 21-MAR-2004 17:58
 Client ID: DF/24-B/1073/IDM/00
 Sample Info: DKGHHC,2151A.b
 Volume Injected (uL): 1.0
 Column Phase: DB1701

Instrument: gcl.1
 Operator: 010139
 Column diameter: 0.53

Data File Name: A-B20338.D

Inj. Date and Time: 21-MAR-2001 17 58

Instrument ID: gc1.1

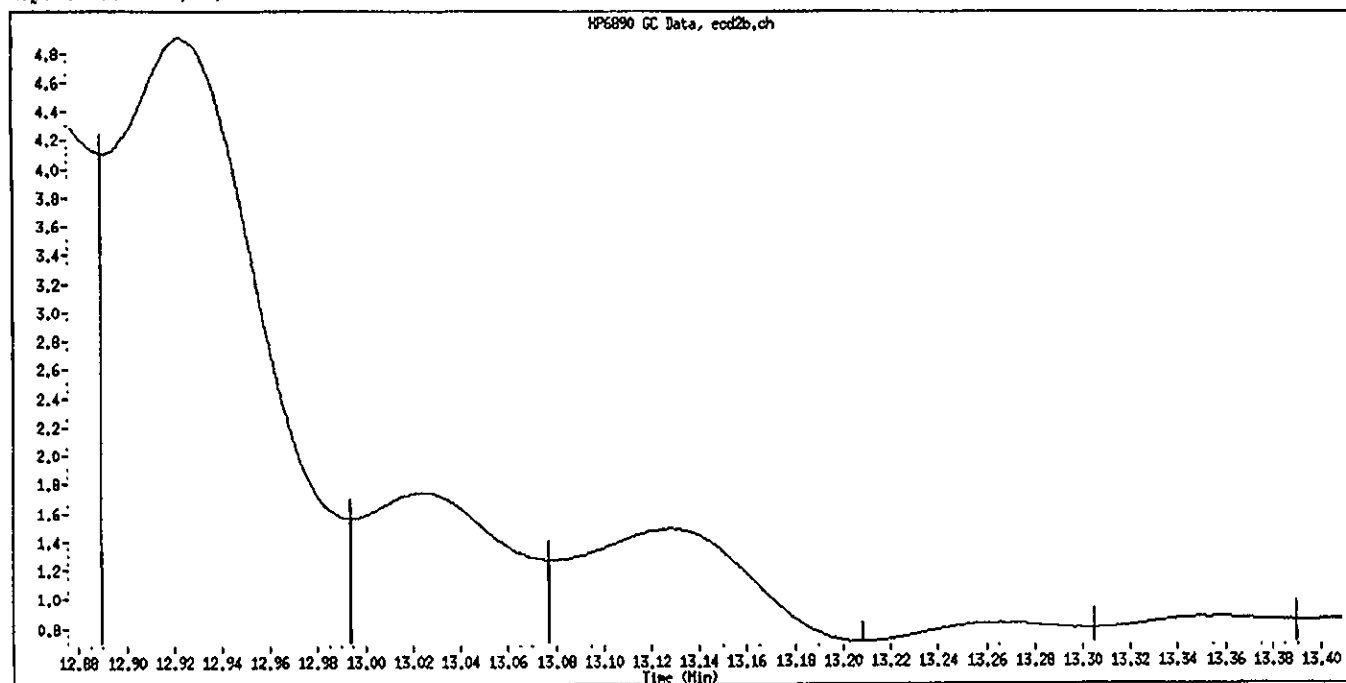
Client ID: DF/24-B/1073/IDW/00

Compound Name: DCAA

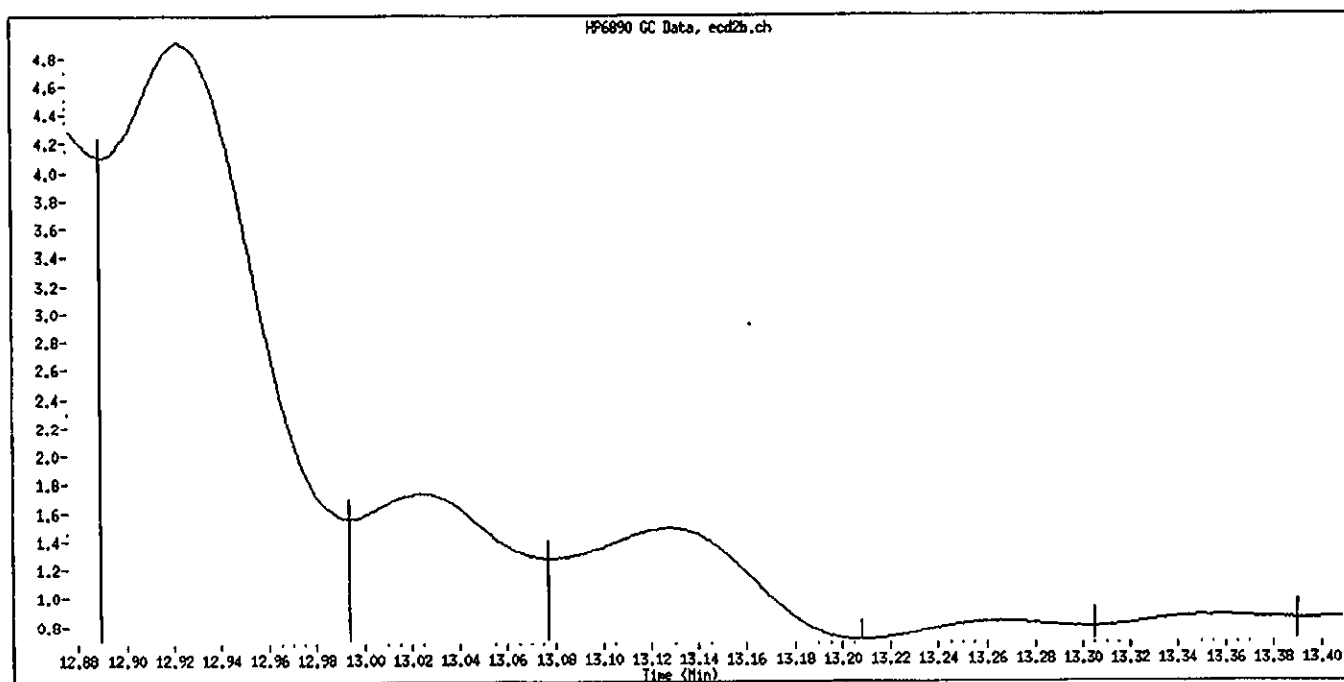
CAS #: 19719-28-9

Report Date: 03/22/2001

678 581



Original Integration



Manual Integration

Manually Integrated By: MorganW

Manual Integration Reason: Poor Chromatography

678 582 10A
 PESTICIDE IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

DF/24-B/1
 073/IDW/00

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

Lab Sample ID: DXGMH1CC

Date(s) Analyzed: 03/21/01 03/21/01

Instrument ID (1): GC1

Instrument ID (2): GC1

GC Column(1): RTX-50

ID: 0.53(mm)

GC Column(2): DB1701

ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
2,4,5-TP(SILVEX)	1	20.38	20.34	20.44	2.838	
	2	19.75	19.70	19.84	2.105	34.8
~~2,4,5-T~~	1	21.18	21.11	21.21	1.696	
	2	20.59	20.47	20.61	0.7572	124.0
2,4-DB	1	21.63	21.59	21.69	103.8	
	2	21.11	21.05	21.19	4.047	999.9
DICAMBA	1	15.25	15.22	15.32	0.5349	
	2	13.66	13.62	13.76	1.575	194.4
MCPA	1	16.39	16.38	16.48	1468	
	2	15.02	14.94	15.08	1817	23.8
MCPP	1	15.10	15.04	15.14	1498	
	2	14.08	14.06	14.20	1363	9.9
	1					
	2					
	1					
	2					

DE 3-22-01

673 583

HERBICIDE
CALIBRATION DATA

678 584

6D
 3-21-01 ~~HP 8801A~~ HP 68901A
 RTx-50

Report Date : 21-Mar-2001 14:20

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 21-Mar-2001 14:19 Number of Cpnds : 12
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

 Initial:Start Threshold 376.000000
 Initial:End Threshold 188.000000
 Initial:Area Threshold 3760.000000
 Initial:P-P Resolution 1.000000
 Initial:Bunch Factor 9.000000
 Initial:Negative Peaks ON
 Initial:Tension 0.200000

Compound	RT	RT Window	RF
1 DALAPON	5.315	5.265-5.365	8.86e+006
\$ 2 DCAA	14.456	14.406-14.506	6.25e+007
3 MCPP	15.087	15.037-15.137	8.97e+004
4 DICAMBA	15.270	15.220-15.320	4.22e+007
5 MCPA	16.435	16.385-16.485	1.06e+005
6 DICHLOROPROP	17.433	17.383-17.483	9.55e+006
7 2,4-D	19.070	19.020-19.120	1.63e+007
8 PENTACHLOROPHENOL	19.981	19.931-20.031	2.70e+008
9 2,4,5-TP (SILVEX)	20.388	20.338-20.438	3.45e+008
10 2,4,5-T	21.165	21.115-21.215	3.00e+008
11 DILOSEB	21.481	21.431-21.531	2.46e+008
12 2,4-DB	21.635	21.585-21.685	3.65e+007

Report Date : 16-Mar-2001 09:43

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2001 16:29
End Cal Date : 15-MAR-2001 18:34
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Cal Date : 16-Mar-2001 09:43 MorganW
Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20275.D
Level 2: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20276.D
Level 3: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20277.D
Level 4: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20278.D
Level 5: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20279.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	15246455	13611591	13378815	1269943	793324	8860026	81.088 <-
3 MCPP	142721	109992	86632	63009	46319	89735	42.532 <-
4 DICAMBA	47277547	42473803	42580071	39902421	38788418	42204452	7.761
5 MCPA	172100	129624	100042	72936	55766	106094	43.653 <-
6 DICHLOROPROP	11192406	9984882	9636981	8763976	8152558	9546161	12.244
7 2,4-D	18776825	16688141	16451011	15109771	14493124	16303774	10.166
8 PENTACHLOROPHENOL	276634586	262108083	272856297	265978289	270959506	269707352	2.123
9 2,4,5-TP(SILVEX)	371101143	339788857	345695355	333814727	333220417	344724100	4.523
10 2,4,5-T	326898292	291121048	300393223	289794242	292048780	300051117	5.190
11 DINOSEB	275743849	246706929	244238740	232127638	232401063	246243644	7.223
12 2,4-DB	41586540	37166351	36143183	33724929	33913038	36506808	8.752
\$ 2 DCAA	73862254	65710353	62768378	56985371	53398435	62544958	12.709

AVG RSD = 19.8

678 586

7E
HP 68901A
RTX-50Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20308.D
Report Date: 21-Mar-2001 14:19

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 21-MAR-2001 13:23
 Lab File ID: A-A20308.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
 Analysis Type: Init. Cal. Times: 16:29 18:34
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m

COMPOUND	RRF	RFO	MIN	MAX
1 DALAPON	8860026	12704715	0.010	43.4
2 DCAA	62544958	61827027	0.010	-1.1
3 MCPP	89735	85880	0.010	-4.3
4 DICAMBA	42204452	41867106	0.010	-0.8
5 MCFA	106094	99328	0.010	-6.4
6 DICHLOROPROP	9546161	9383785	0.010	-1.7
7 2,4-D	16303774	15725570	0.010	-3.5
8 PENTACHLOROPHENOL	269707352	272353665	0.010	1.0
9 2,4,5-TP (SILVEX)	344724100	341032227	0.010	-1.1
10 2,4,5-T	300051117	300832701	0.010	0.3
11 DINOSEB	246243644	249561102	0.010	1.3
12 2,4-DB	36506808	35715195	0.010	-2.2

7E
68901A
LTX-50

Data File: \\qpitpa02\d\chem\gcl.i\2151.b\A-A20318.D
Report Date: 22-Mar-2001 07:42

678 587

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl.i Injection Date: 21-MAR-2001 21:38
Lab File ID: A-A20318.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
Analysis Type: Init. Cal. Times: 16:29 18:34
Lab Sample ID: MHERB Quant Type: ESTD
Method: \\qpitpa02\d\chem\gcl.i\2151.b\LONGH.m

COMPOUND	RRF	RFO	MIN	MAX
1 DALAPON	8860026	12969977	0.010	15.0
2 DCAA	62544958	62823866	0.010	15.0
3 MCPP	89735	87005	0.010	15.0
4 DICAMBA	42204452	42472118	0.010	15.0
5 MCPA	106094	99895	0.010	15.0
6 DICHLOROPROP	9546161	9592594	0.010	15.0
7 2,4-D	16303774	16425852	0.010	15.0
8 PENTACHLOROPHENOL	269707352	273176598	0.010	15.0
9 2,4,5-TP (SILVEX)	344724100	348964787	0.010	15.0
10 2,4,5-T	300051117	304971754	0.010	15.0
11 DINOSEB	246243644	249534488	0.010	15.0
12 2,4-DB	36506808	36181976	0.010	15.0

678 588

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

GC Column: RTX-50 ID: 0.53 (mm) Init. Calib. Date(s): 03/15/01 03/15/01

Instrument ID: GC1

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 14.46					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	LHERB	03/15/01	1629	14.46	
02	MLHERB	03/15/01	1700	14.46	
03	MHERB	03/15/01	1731	14.46	
04	MHHERB	03/15/01	1803	14.47	
05	HHERB	03/15/01	1834	14.46	
06	2ND HERB	03/15/01	1905	14.47	
07	MHERB	03/21/01	1323	14.46	
08	DF/24-B/1073 DXGMH1CC	03/21/01	1656	14.46	
09	LCS8453 DXLRA1AC	03/21/01	1727	14.46	
10	LCD8453 DXLRA1AD	03/21/01	1758	14.46	
11	PBLK8453 DXLRA1AA	03/21/01	1830	14.46	
12	MHERB	03/21/01	2138	14.46	
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					

S1 = DCAA

QC LIMITS
(+/- 0.05 MINUTES)

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

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20275.D
Report Date: 16-Mar-2001 08:52

678 589

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20275.D
Lab Smp Id: LHERB
Inj Date : 15-MAR-2001 16:29
Operator : 010139
Smp Info : LHERB,2151.b
Misc Info : 190-107-1
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Meth Date : 16-Mar-2001 08:52 morganw
Cal Date : 15-MAR-2001 16:29
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A20275.D
Calibration Sample, Level: 1
Compound Sublist: all.sub

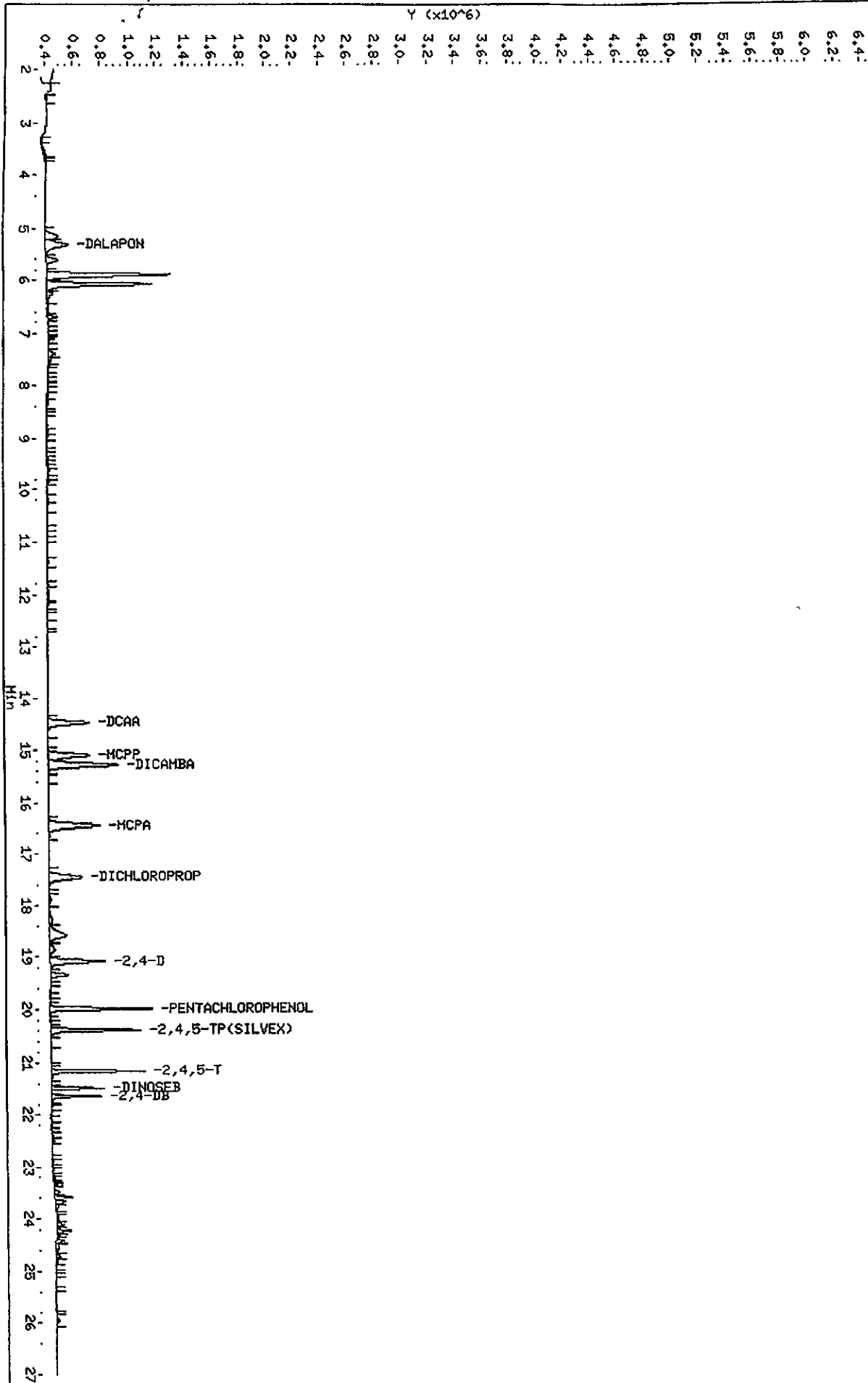
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.325	5.326	-0.001	167711	0.01100	0 01100
\$ 2 DCAA	14.461	14.463	-0.002	1573266	0.02130	0.02130
3 MCPP	15.096	15.097	-0 001	302568	2.12000	2.120
4 DICAMBA	15.279	15.279	0.000	501142	0.01060	0 01060
5 MCPA	16.445	16.446	-0.001	368294	2.14000	2 140
6 DICHLOROPROP	17.441	17.443	-0.002	237279	0.02120	0.02120
7 2,4-D	19.083	19.080	0.003	396191	0.02110	0.02110
8 PENTACHLOROPHENOL	19.986	19.987	-0.001	735848	0.00266	0.002660
9 2,4,5-TP(SILVEX)	20.392	20.392	0.000	1948281	0.00525	0.005250
10 2,4,5-T	21.169	21.168	0.001	1722754	0.00527	0.005270
11 DINOSEB	21.486	21 485	0 001	874108	0.00317	0 003170
12 2,4-DB	21.641	21.638	0.003	877476	0.02110	0 02110

678 590

Data File: \\qpltpa02\chem\gc1.i\2151.b\A-A20275.D
 Date : 15-MAR-2001 16:29
 Client ID:
 Sample Info: LHERB,2151.b
 Column phase: RTX-50

Instrument: gc1.i
 Operator: 040139
 Column diameter: 0.53

\\qpltpa02\chem\gc1.i\2151.b\A-A20275.D



Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20276.D
 Report Date: 16-Mar-2001 08:53

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20276.D
 Lab Smp Id: MLHERB
 Inj Date : 15-MAR-2001 17:00
 Operator : 010139
 Smp Info : MLHERB,2151.b
 Misc Info : 190-107-2
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 16-Mar-2001 08:52 morganw
 Cal Date : 15-MAR-2001 17:00
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

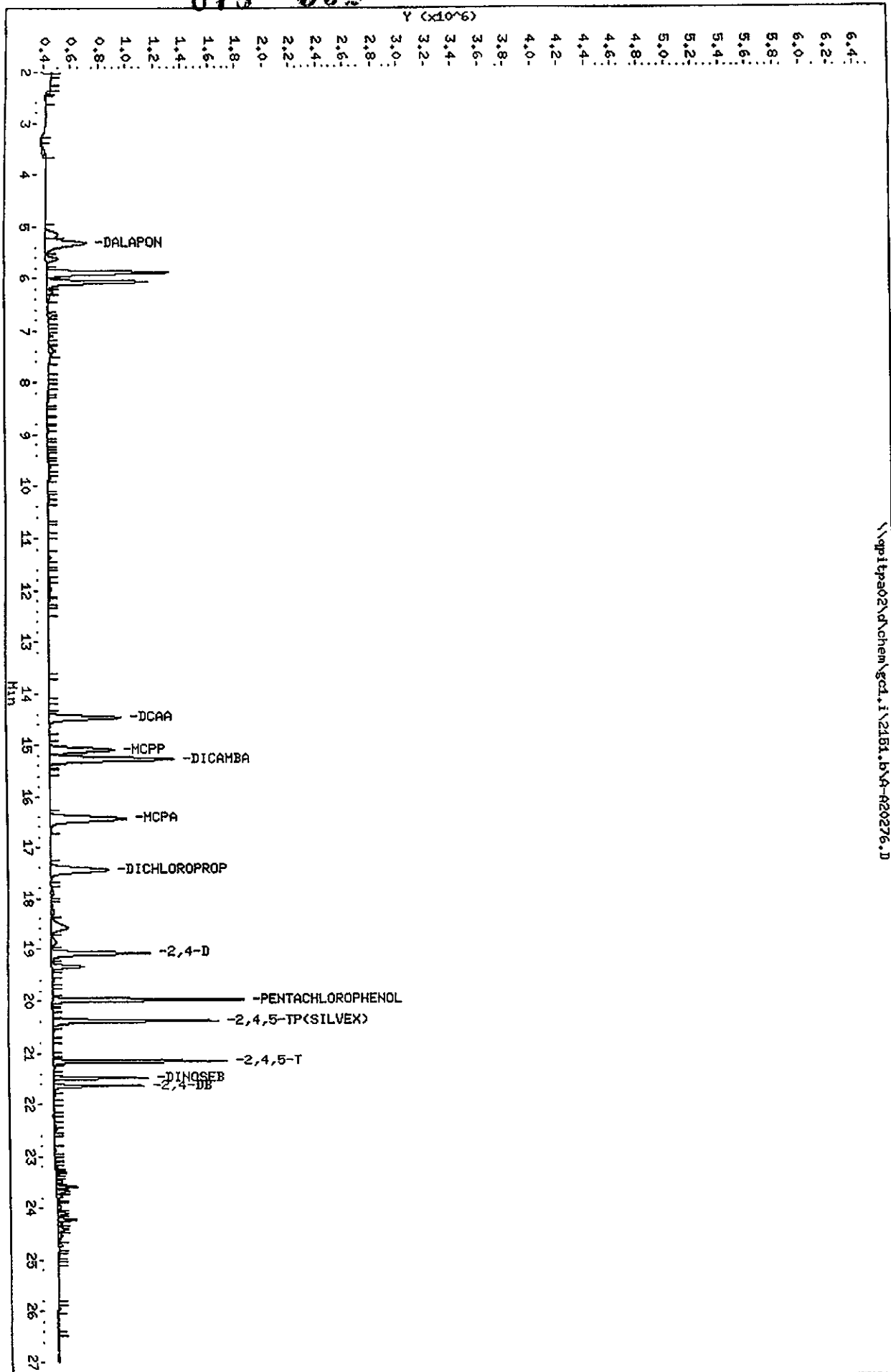
Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A20276.D
 Calibration Sample, Level: 2
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
1 DALAPON	5.328	5.326	0.002	299455	0.02200	0.02075
5 2 DCAA	14.461	14.463	-0.002	2792690	0.04250	0.04002
3 MCPP	15.097	15.097	0.000	468566	4.26000	3.708
4 DICAMBA	15.277	15.279	-0.002	904692	0.02130	0.02016
5 MCPA	16.442	16.446	-0.004	554791	4.28000	3.677
6 DICHLOROPROP	17.440	17.443	-0.003	423359	0.04240	0.03998
7 2,4-D	19.079	19.080	-0.001	709246	0.04250	0.04000
8 PENTACHLOROPHENOL	19.986	19.987	-0.001	1394415	0.00532	0.005176
9 2,4,5-TP(SILVEX)	20.391	20.392	-0.001	3567783	0.01050	0.01004
10 2,4,5-T	21.168	21.168	0.000	3056771	0.01050	0.009892
11 DINOSEB	21.484	21.485	-0.001	1566589	0.00635	0.005997
12 2,4-DB	21.639	21.638	0.001	1568420	0.04220	0.03983

673 593

Data File: \\ppltpa02\chem\gc1.i\2151.b\A-A20276.D
 Date: 15-MAR-2001 17:00
 Client ID:
 Sample Info: MLHERB,2151.b
 Column phase: RTX-50

Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53



Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20277.D
Report Date: 16-Mar-2001 08:53

678 593

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20277.D
Lab Smp Id: MHERB
Inj Date : 15-MAR-2001 17:31
Operator : 010139
Smp Info : MHERB,2151.b
Misc Info : 190-107-3
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Meth Date : 16-Mar-2001 08:52 morganw
Cal Date : 15-MAR-2001 17:31
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A20277.D
Calibration Sample, Level: 3
Compound Sublist: all.sub

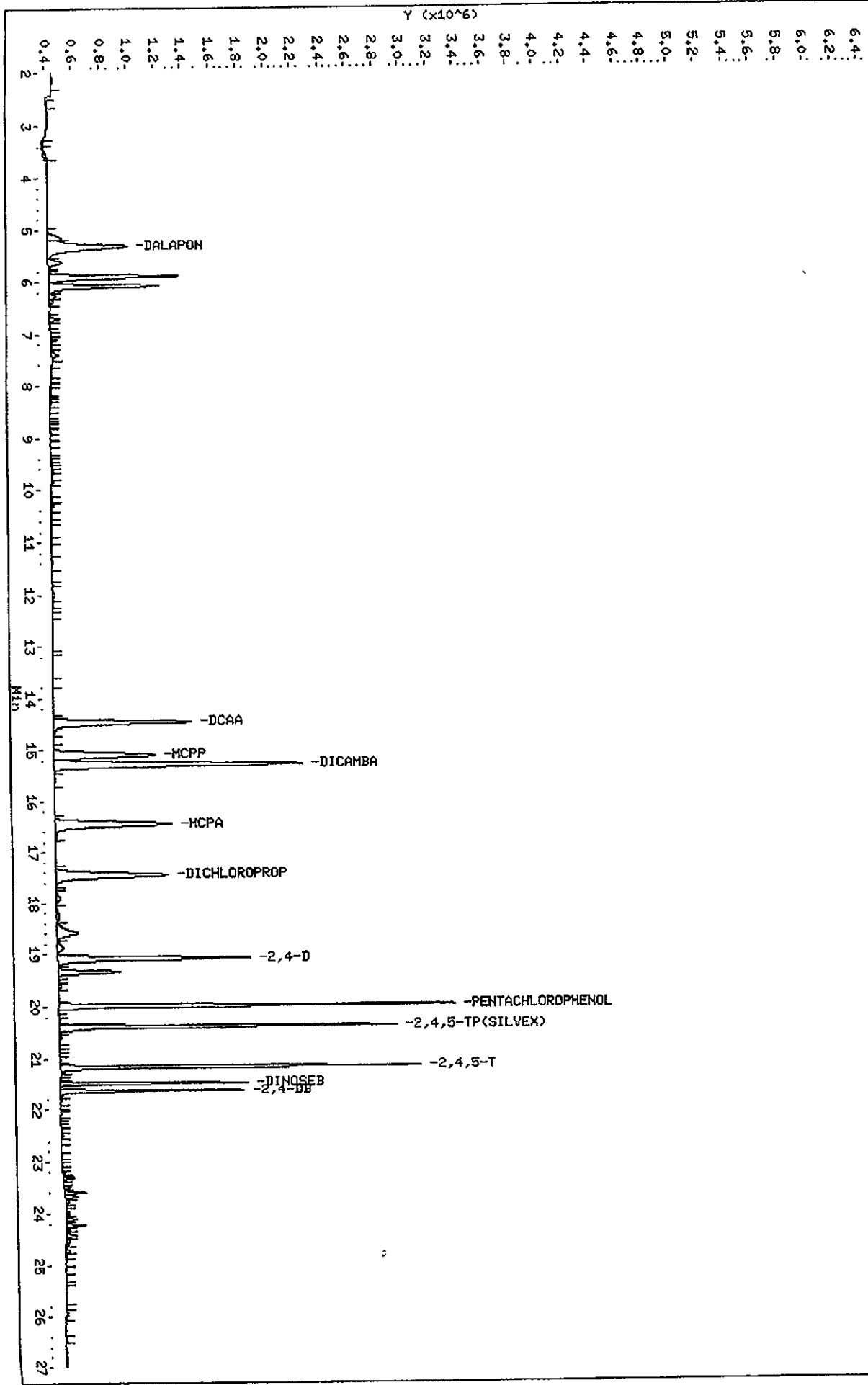
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.326	5.326	0.000	587330	0.04390	0.04172
2 DCAA	14.463	14.463	0.000	5341589	0.08510	0.07920
3 MCPP	15.097	15.097	0.000	738103	8.52000	6.525
4 DICAMBA	15.279	15.279	0.000	1809653	0.04250	0.04102
5 MCPA	16.446	16.446	0.000	856359	8.56000	6.394
6 DICHLOROPROP	17.443	17.443	0.000	817216	0.08480	0.07956
7 2,4-D	19.080	19.080	0.000	1399981	0.08510	0.08090
8 PENTACHLOROPHENOL	19.987	19.987	0.000	2903191	0.01064	0.01073
9 2,4,5-TP(SILVEX)	20.392	20.392	0.000	7294172	0.02110	0.02071
10 2,4,5-T	21.168	21.168	0.000	6338297	0.02110	0.02070
11 DINOSEB	21.485	21.485	0.000	3101832	0.01270	0.01214
12 2,4-DB	21.638	21.638	0.000	3054099	0.08450	0.07974

678 594

Data File: \\spitpa02\chem\gc1.1\2151.b\A-A20277.D
 Date: 15-MAR-2001 17:31
 Client ID:
 Sample Info: MHERB,2151.b
 Column phase: RTX-50

Instrument: gc1.1
 Operator: 010139
 Column diameter: 0.53

\\spitpa02\chem\gc1.1\2151.b\A-A20277.D



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20278.D
 Lab Smp Id: MHHERB
 Inj Date : 15-MAR-2001 18:03
 Operator : 010139
 Smp Info : MHHERB,2151.b
 Misc Info : 190-107-4
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 16-Mar-2001 08:52 morganw
 Cal Date : 15-MAR-2001 18:03
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A20278.D
 Calibration Sample, Level: 4
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.189	5.326	-0.137	111501	0.08780	0.01025 (M)
\$ 2 DCAA	14.465	14.463	0.002	9687513	0.17000	0.1494
3 MCPP	15.102	15.097	0.005	1071150	17.0000	10.65
4 DICAMBA	15.280	15.279	0.001	3395696	0.08510	0.07886
5 MCPA	16.445	16.446	-0.001	1247206	17.1000	10.51
6 DICHLOROPROP	17.445	17.443	0.002	1489876	0.17000	0.1506
7 2,4-D	19.080	19.080	0.000	2568661	0.17000	0.1533
8 PENTACHLOROPHENOL	19.989	19.987	0.002	5660018	0.02128	0.02101
9 2,4,5-TP (SILVEX)	20.393	20.392	0.001	14053600	0.04210	0.04043
10 2,4,5-T	21.169	21.168	0.001	12229317	0.04220	0.04049
11 DINOSEB	21.485	21.485	0.000	5896042	0.02540	0.02361
12 2,4-DB	21.638	21.638	0.000	5699513	0.16900	0.1534

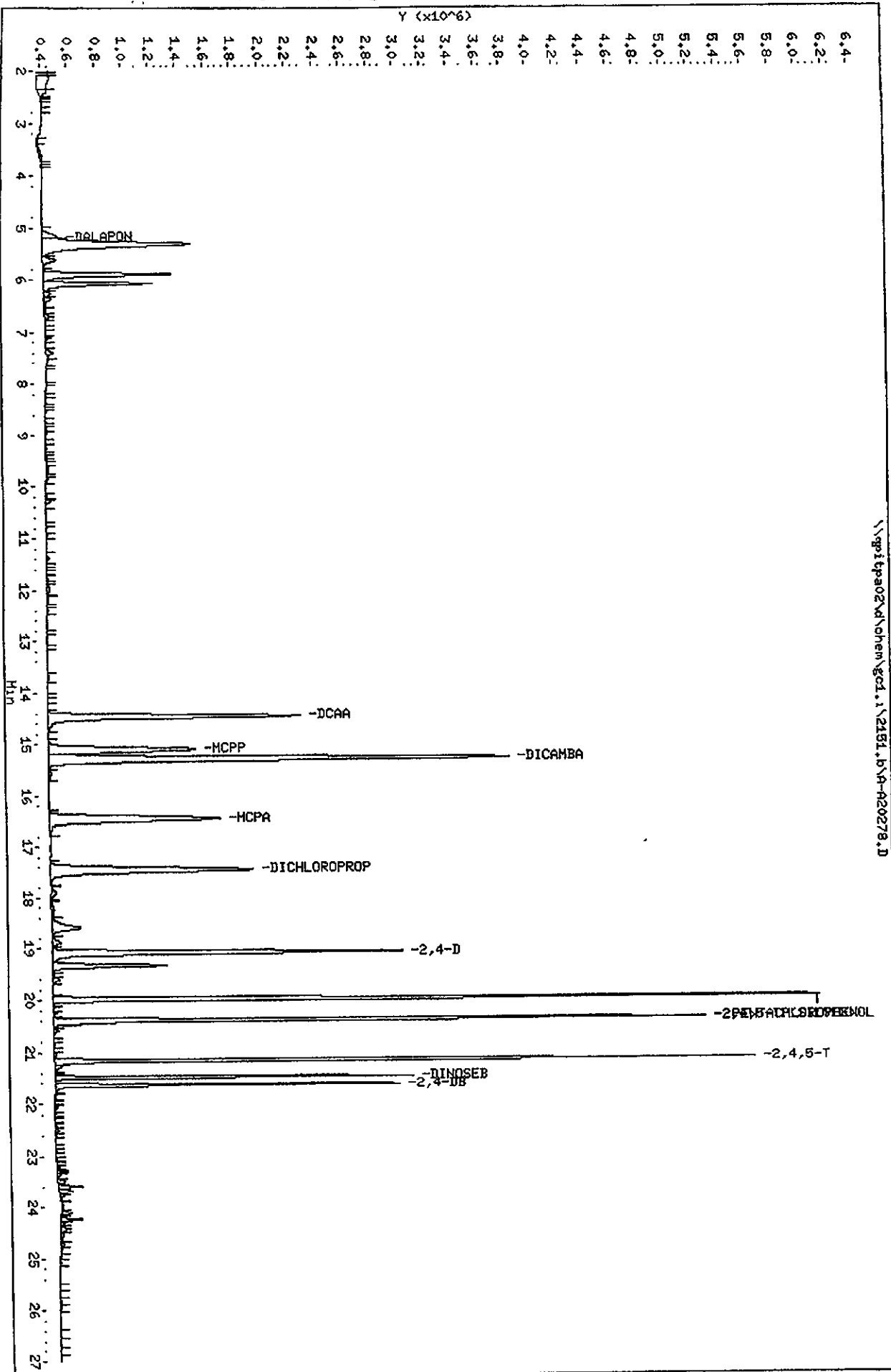
QC Flag Legend

M - Compound response manually integrated.

678 596

Data File: \\qpi1p0202\chem\gc1.1\2151.b\A-A20278.D
 Date: 15-MAR-2001 18:03
 Client ID:
 Sample Info: MHHERB,2151.b
 Column phase: RTX-50

Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53



Data File Name: A-A20278.D

Inj Date and Time: 15-MAR-2001 18:03

Instrument ID gcl 1

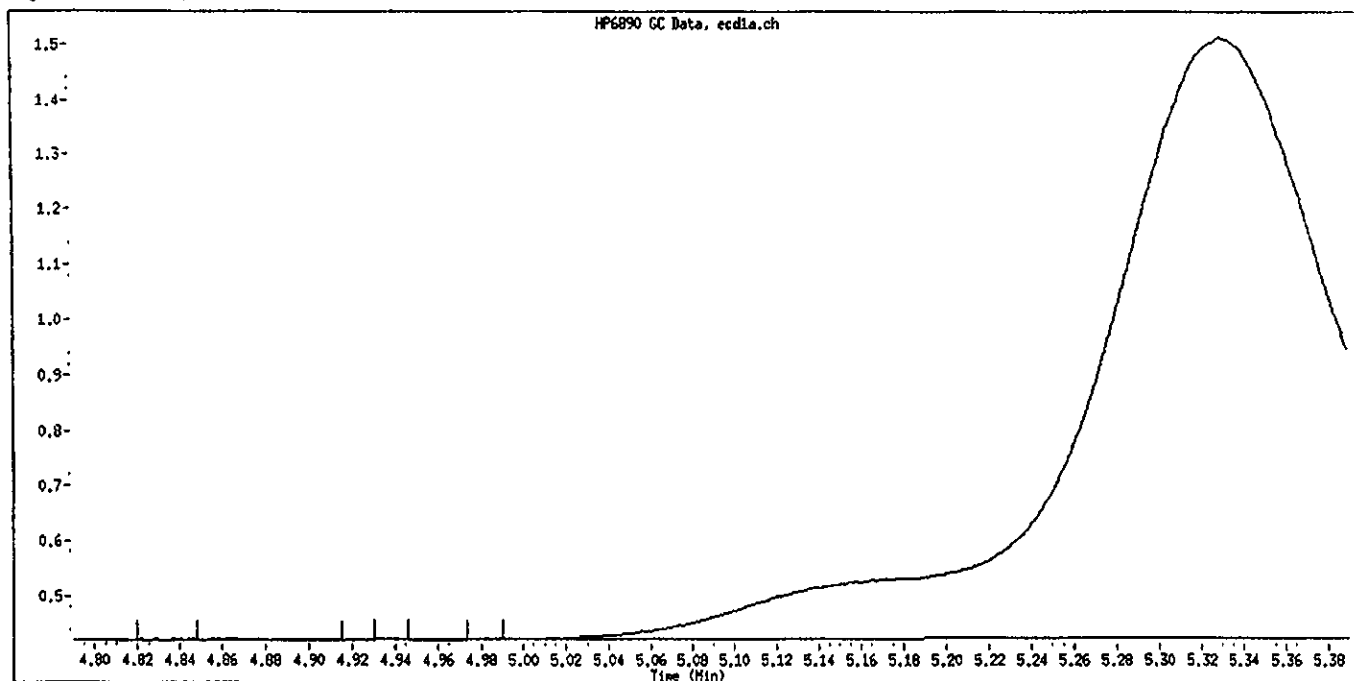
Client ID

Compound Name DALAPON

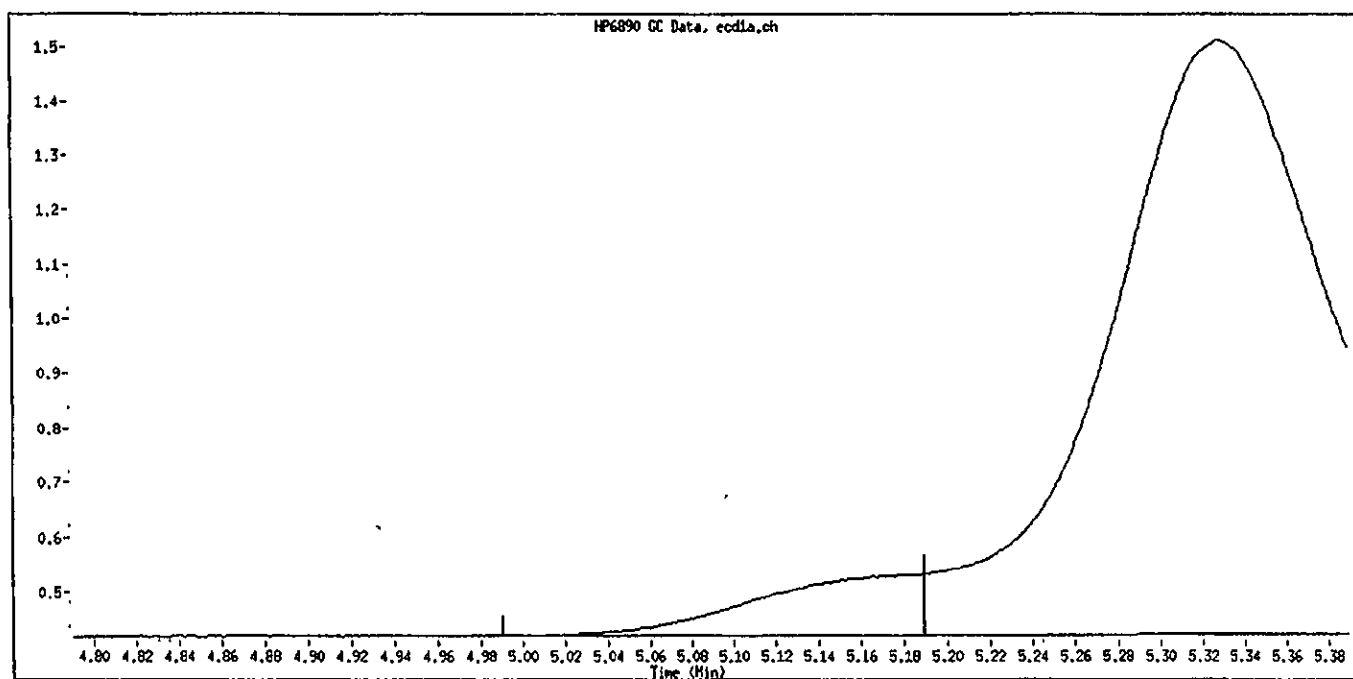
CAS # 75-99-0

Report Date: 03/16/2001

673 597



Original Integration



Manual Integration

Manually Integrated By: MorganW

Manual Integration Reason: Poor Chromatography

678 593

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20279.D
 Report Date: 16-Mar-2001 08:53

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20279.D
 Lab Smp Id: HHERB
 Inj Date : 15-MAR-2001 18:34
 Operator : 010139
 Smp Info : HHERB,2151.b
 Misc Info : 190-107-5
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 16-Mar-2001 08:52 morganw
 Cal Date : 15-MAR-2001 18:34
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A20279.D
 Calibration Sample, Level: 5
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
1 DALAPON	5.182	5.326	-0.144	139625	0.17600	0.01576(M)
\$ 2 DCAA	14.463	14.463	0.000	18155468	0.34000	0.2903
3 MCPP	15.103	15.097	0.006	1579493	34.1000	17.60
4 DICAMBA	15.281	15.279	0.002	6594031	0.17000	0.1562
5 MCPA	16.444	16.446	-0.002	1896027	34.0000	17.87
6 DICHLOROPROP	17.441	17.443	-0.002	2763717	0.33900	0.2895
7 2,4-D	19.076	19.080	-0.004	4927662	0.34000	0.3022
8 PENTACHLOROPHENOL	19.987	19.987	0.000	11529327	0.04255	0.04275
9 2,4,5-TP(SILVEX)	20.392	20.392	0.000	27990515	0.08400	0.08120
10 2,4,5-T	21.169	21.168	0.001	24648917	0.08440	0.08215
11 DINOSEB	21.485	21.485	0.000	11805974	0.05080	0.04794
12 2,4-DB	21.638	21.638	0.000	11462607	0.33800	0.3140

QC Flag Legend

M - Compound response manually integrated.

678

599

Data File: \\ppitpa02\chem\col.1\2151.b\A-A20279.D

Date: 15-MAR-2001 18:34

Client ID:

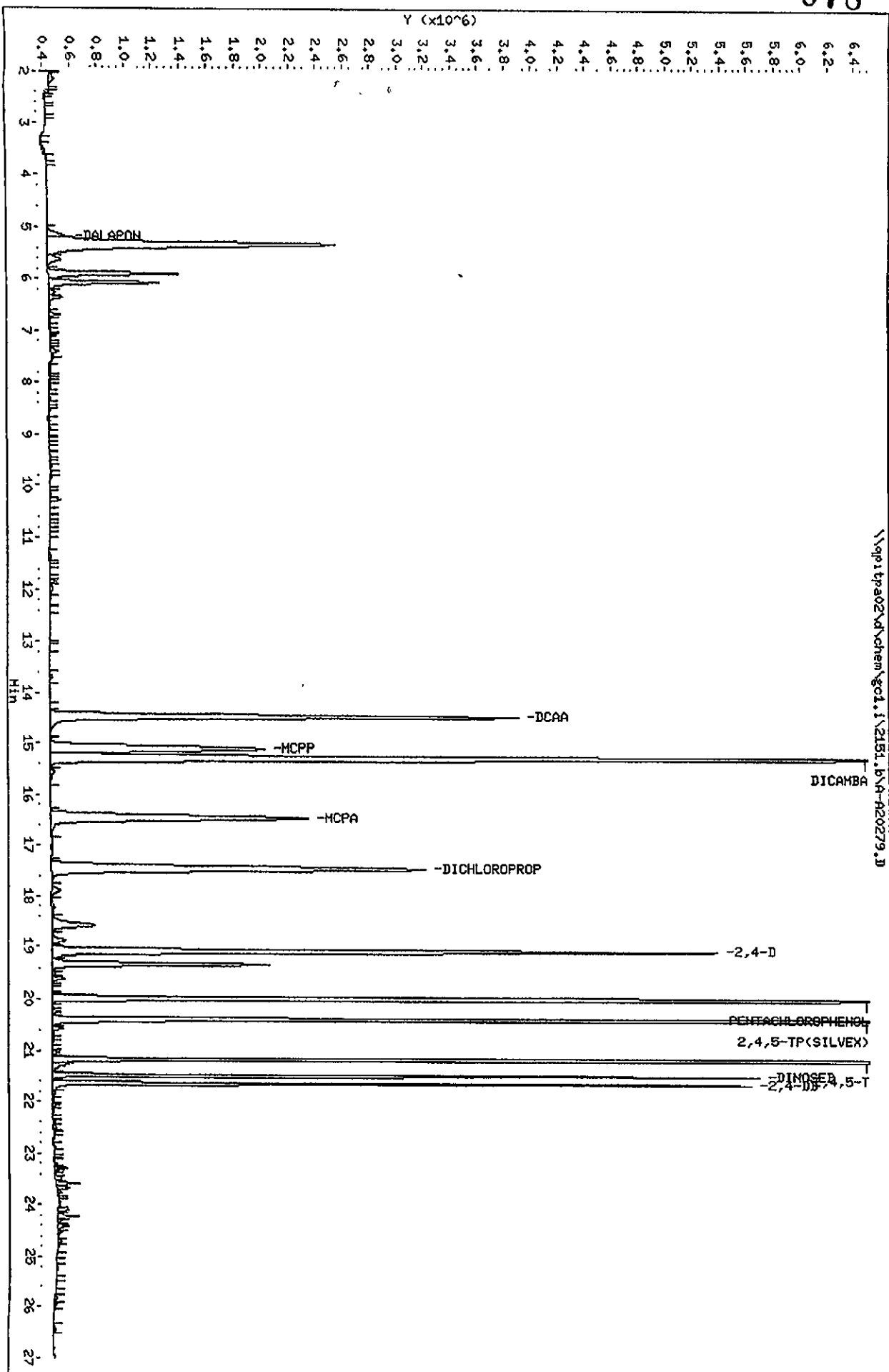
Sample Info: HHERB, 2151.b

Column phase: RTX-50

Instrument: col.1

Operator: 010139

Column diameter: 0.53



Data File Name: A-A20279.D

678 609

Inj Date and Time 15-MAR-2001 18.34

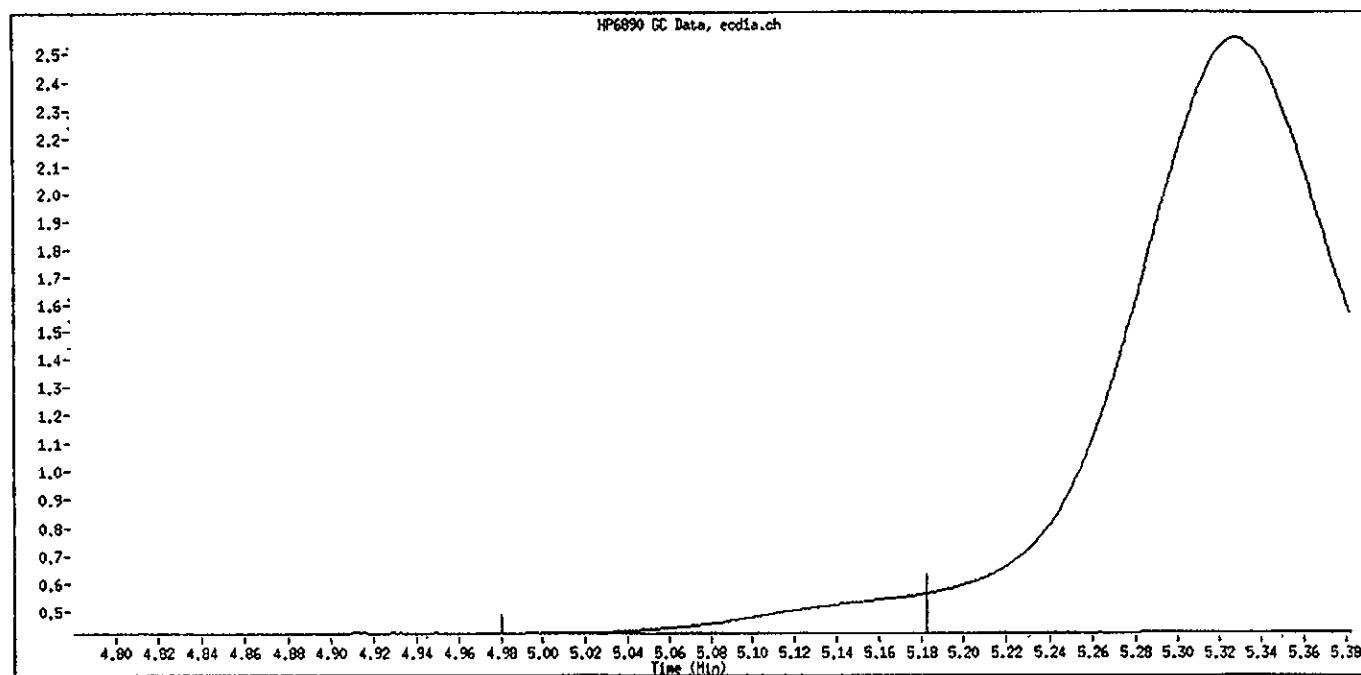
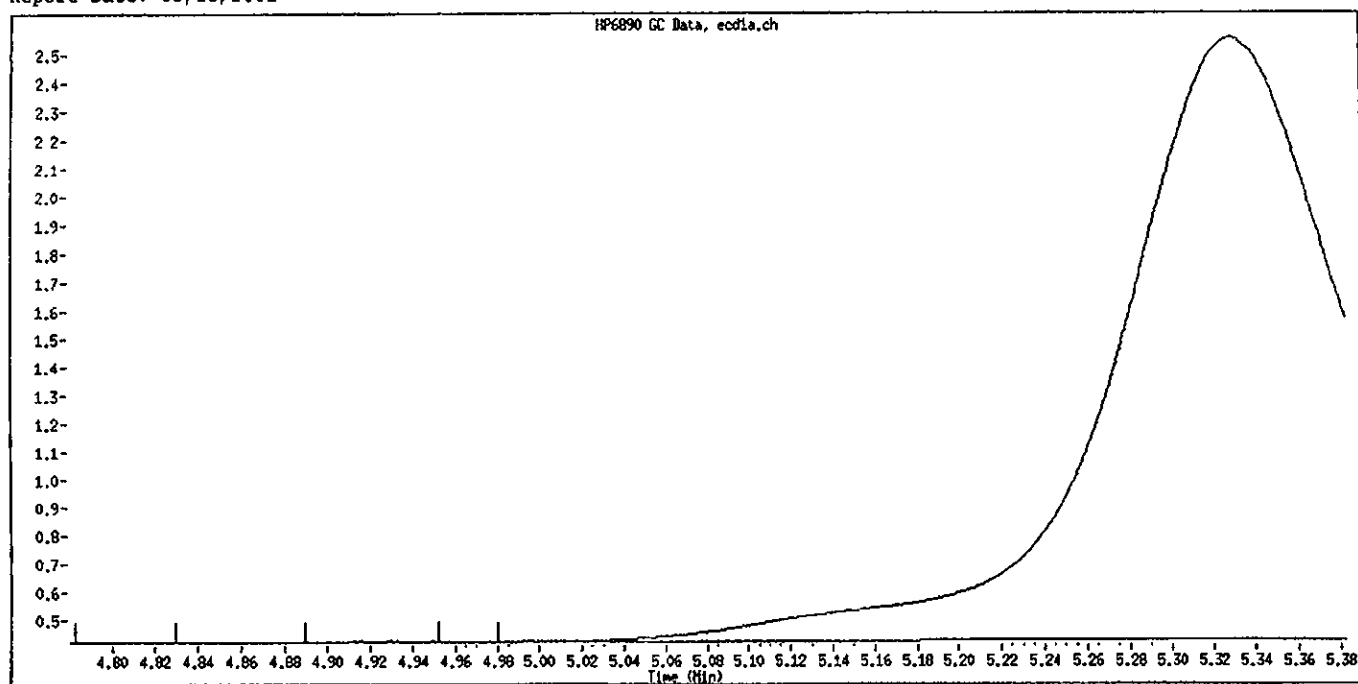
Instrument ID: gcl.1

Client ID:

Compound Name DALAPON

CAS # 75-99-0

Report Date: 03/16/2001



Manually Integrated By MorganW

Manual Integration Reason Poor Chromatography

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20280.D
 Report Date: 16-Mar-2001 10:08

678 601

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20280.D
 Lab Smp Id: 2ND HERB
 Inj Date : 15-MAR-2001 19:05
 Operator : 010139
 Smp Info : 2ND HERB,2151.b
 Misc Info : 190-119-8
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 16-Mar-2001 10:05 MorganW
 Cal Date : 15-MAR-2001 18:34
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A20279.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.328	5.328	0.000	296238	0.04390	0.03344 (M) 83%
2 DCAA	14.465	14.463	0.002	829191	0.08510	0.01326
3 MCPP	15.094	15.097	-0.003	691346	8.52000	7.704 96%
4 DICAMBA	15.280	15.279	0.001	1662419	0.04250	0.03939 98%
5 MCPA	16.444	16.446	-0.002	814425	8.56000	7.676 96%
6 DICHLOROPROP	17.446	17.443	0.003	394977	0.08480	0.04138 103%
7 2,4-D	19.078	19.080	-0.002	712369	0.08510	0.04369 108%
8 PENTACHLOROPHENOL	19.987	19.987	0.000	2803571	0.01064	0.01039 100%
9 2,4,5-TP(SILVEX)	20.392	20.392	0.000	12867023	0.02110	0.03732 73%
10 2,4,5-T	21.168	21.168	0.000	11578598	0.02110	0.03859 95%
11 DINOSEB	21.484	21.485	-0.001	9041943	0.01270	0.03672 90%
12 2,4-DB	21.639	21.638	0.001	1497903	0.08450	0.04103 103%

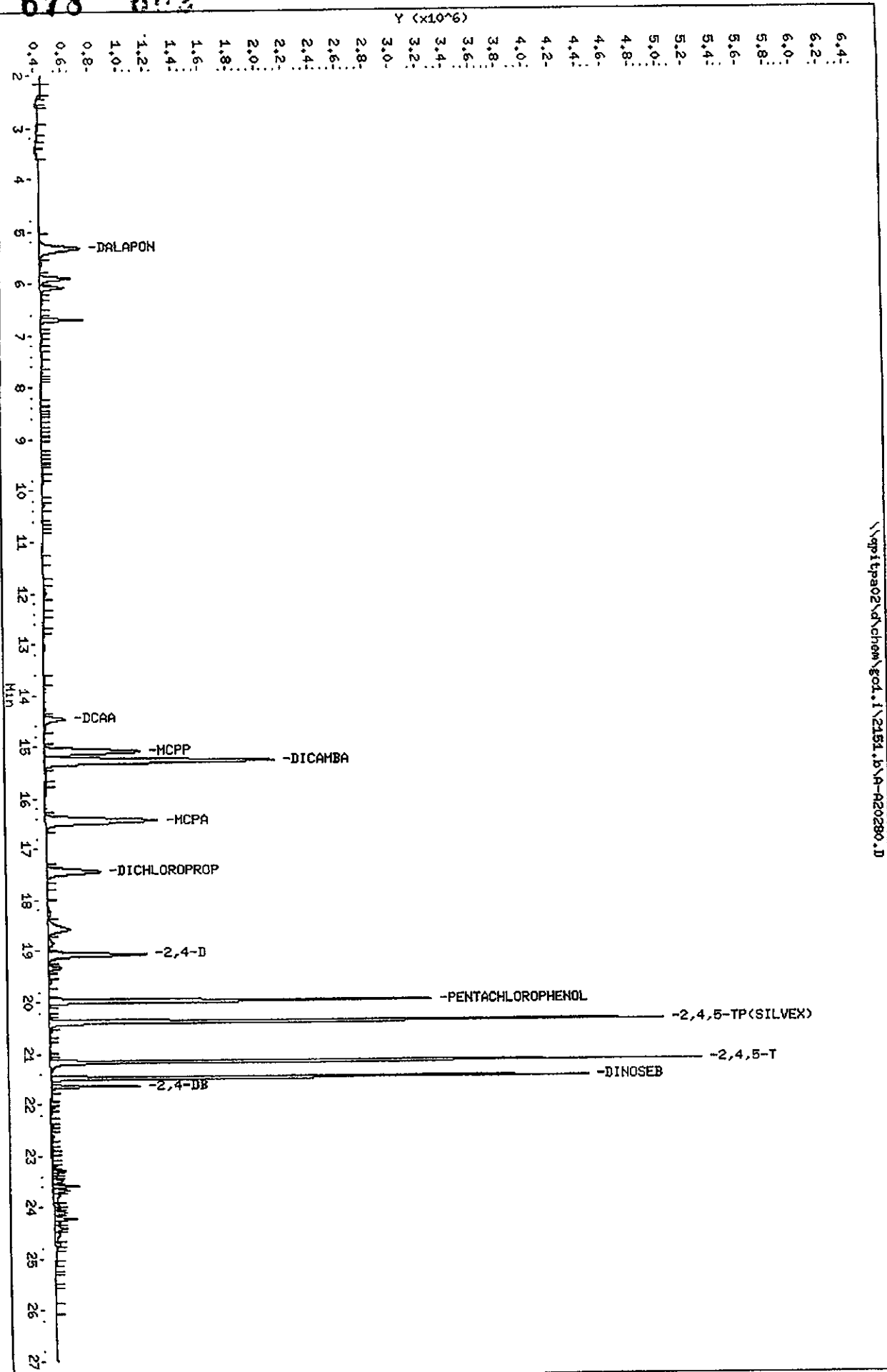
QC Flag Legend

M - Compound response manually integrated.

678 602

Data File: \\ppltpa02\chem\gc1.1\2151.b\A-A20280.D
Date: 15-MAR-2001 19:05
Client ID:
Sample Info: 2ND HERB, 2151.b
Column phase: RTX-50

Instrument: gc1.1
Operator: 010139
Column diameter: 0.53



Data File Name: A-A20280.D

Inf Date and Time 15-MAR-2001 19 05

Instrument ID gc1 1

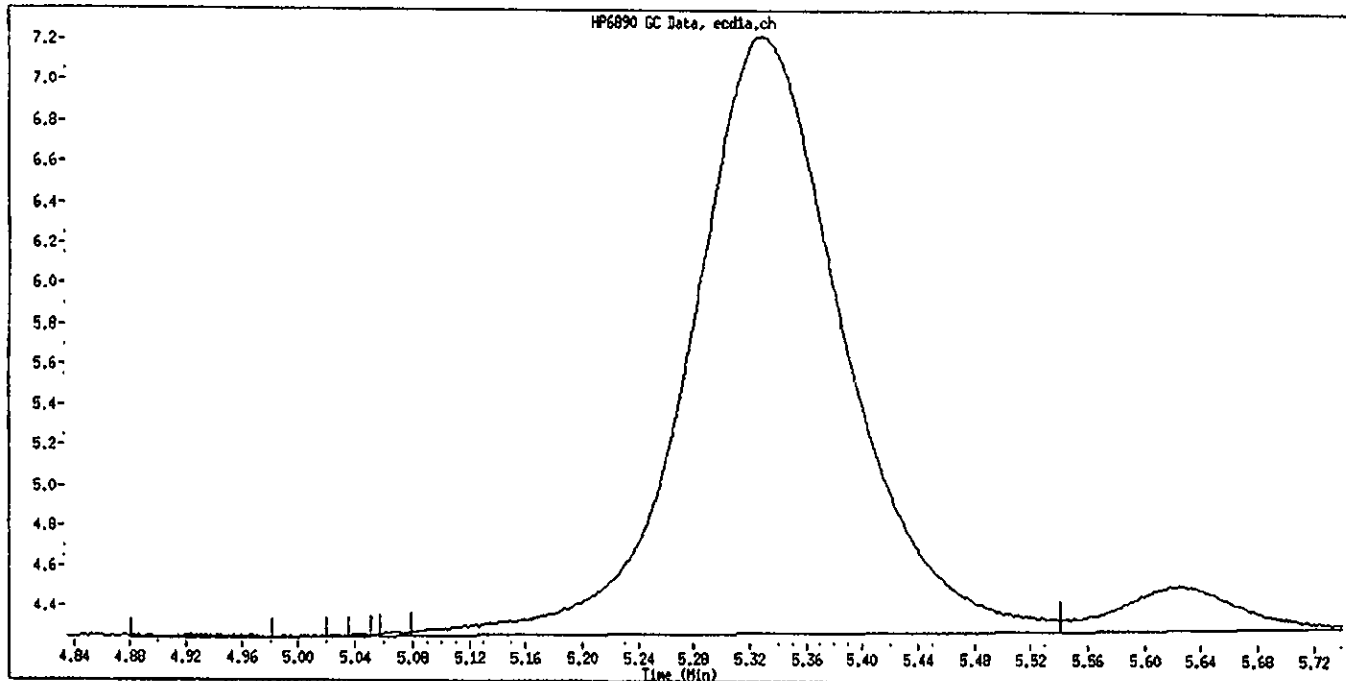
Client ID:

Compound Name DALAPON

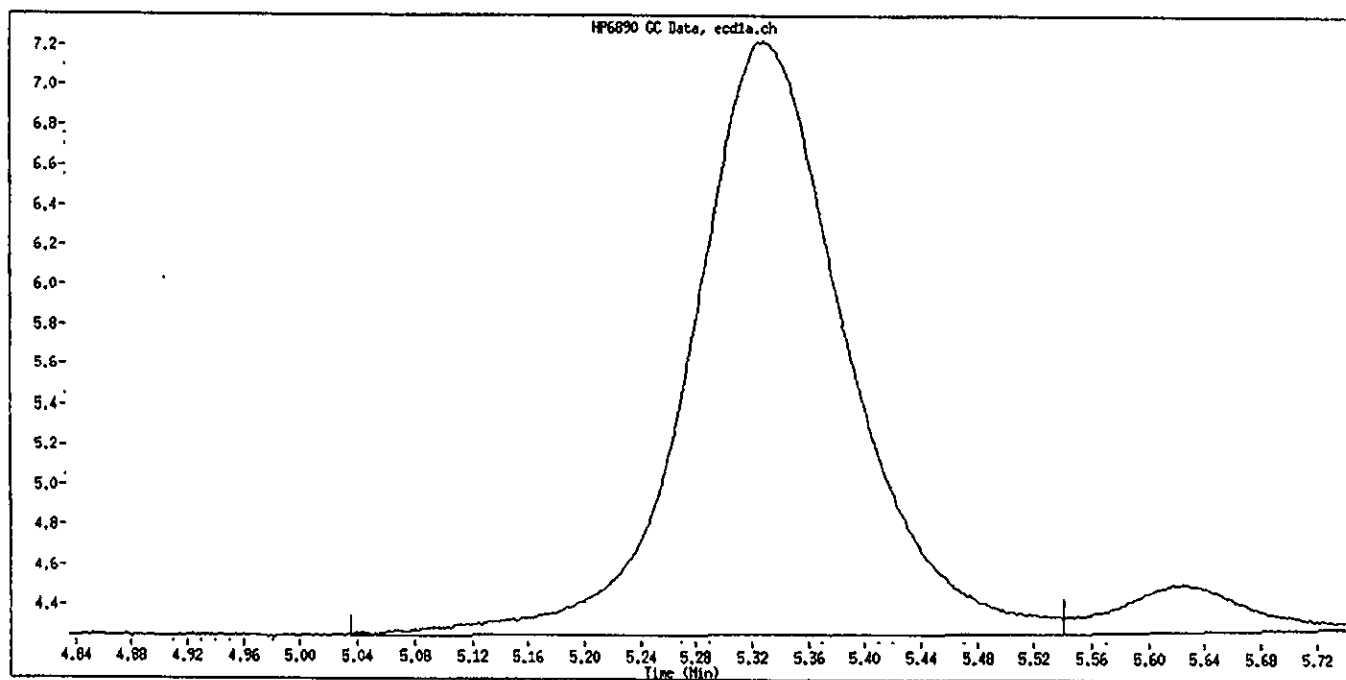
CAS # 75-99-0

Report Date 03/16/2001

678 603



Original Integration



Manual Integration

Manually Integrated By MorganW

Manual Integration Reason Unknown Assign Peak

ann
3-16-01

678 604

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20308.D
 Report Date: 21-Mar-2001 14:21

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20308.D
 Lab Smp Id: MHERB
 Inj Date : 21-MAR-2001 13:23
 Operator : 010139
 Smp Info : MHERB,2151.b
 Misc Info : 190-107-3
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 21-Mar-2001 14:21 morganw
 Cal Date : 15-MAR-2001 18:34
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A20279.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	---	-----	-----	-----	-----	-----
1 DALAPON	5.315	5.315	0.000	557737	0.04390	0.06295
\$ 2 DCAA	14.456	14.456	0.000	5261480	0.08510	0.08412
3 MCPP	15.087	15.087	0.000	731695	8.52000	8.154
4 DICAMBA	15.270	15.270	0.000	1779352	0.04250	0.04216
5 MCPA	16.434	16.434	0.000	850245	8.56000	8.014
6 DICHLOROPROP	17.432	17.432	0.000	795745	0.08480	0.08336
7 2,4-D	19.070	19.070	0.000	1338246	0.08510	0.08208
8 PENTACHLOROPHENOL	19.981	19.981	0.000	2897843	0.01064	0.01074
9 2,4,5-TP(SILVEX)	20.387	20.387	0.000	7195780	0.02110	0.02087
10 2,4,5-T	21.164	21.164	0.000	6347570	0.02110	0.02115
11 DINOSEB	21.481	21.481	0.000	3169426	0.01270	0.01287
12 2,4-DB	21.635	21.635	0.000	3017934	0.08450	0.08267

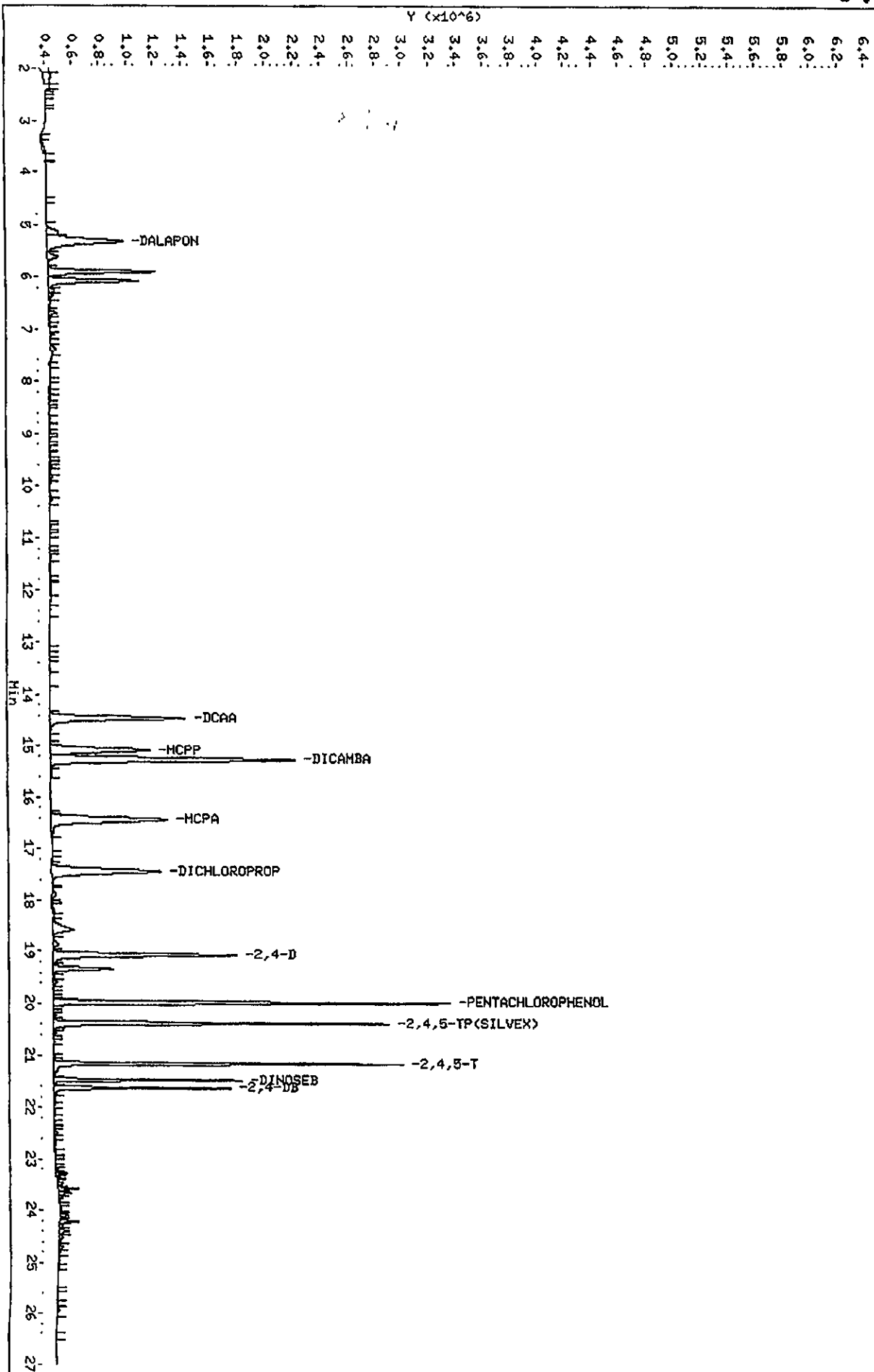
678

605

Data File: \\pp1tpa02\chem\g01.1\2151.b\A-020308.D
Date: 21-MAR-2001 13:23
Client ID:
Sample Info: MHERB, 2151.b
Column phase: RTX-50

Instrument: g01.1
Operator: 010139
Column diameter: 0.53

\\pp1tpa02\chem\g01.1\2151.b\A-020308.D



678 606

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20318.D
 Report Date: 22-Mar-2001 07:58

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20318.D
 Lab Smp Id: MHERB
 Inj Date : 21-MAR-2001 21:38
 Operator : 010139
 Smp Info : MHERB,2151.b
 Misc Info : 190-107-3
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 22-Mar-2001 07:42 MorganW
 Cal Date : 15-MAR-2001 18:34
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A20279.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

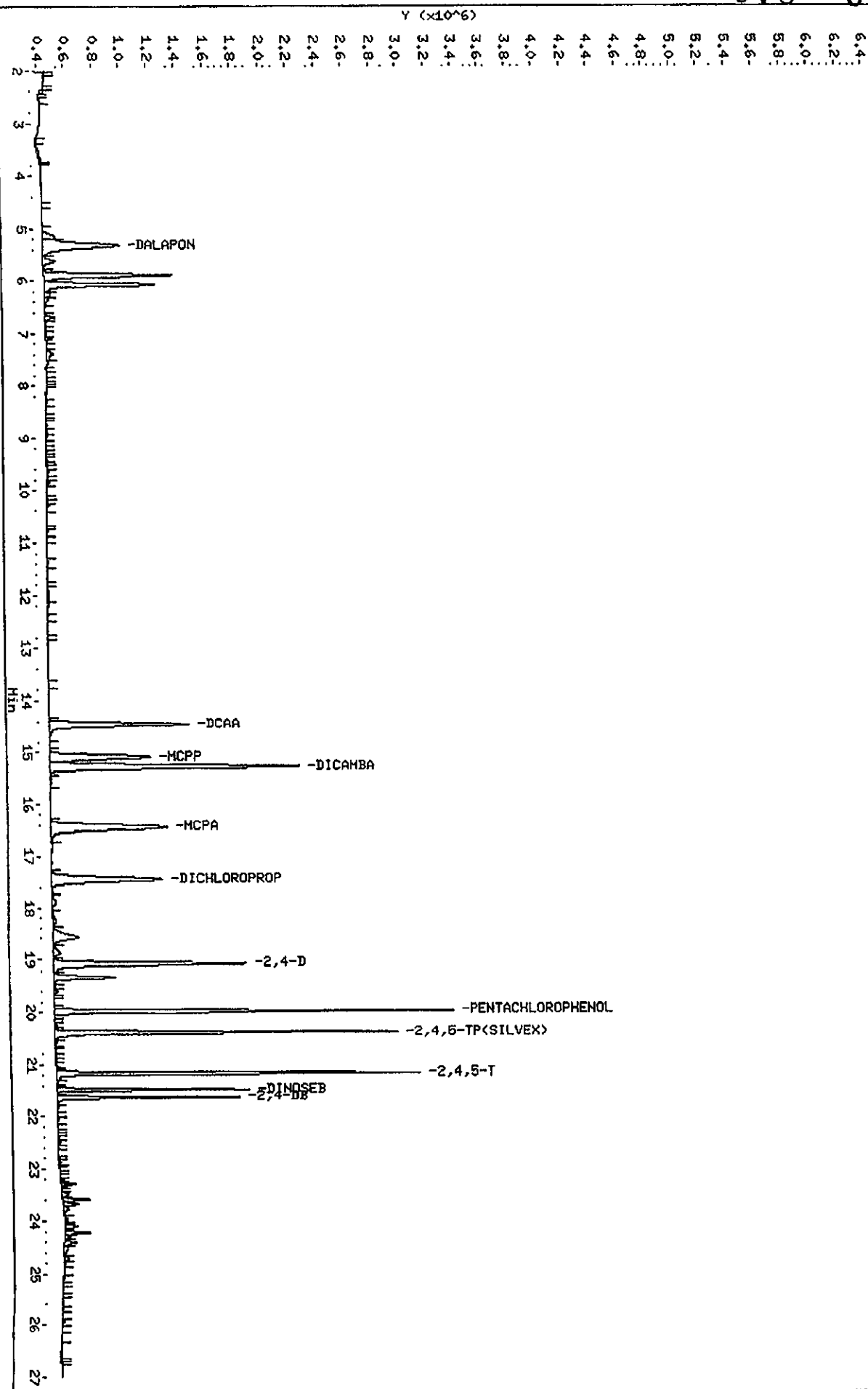
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	5.323	5.315	0.008	569382	0.04390	0.06426
\$ 2 DCAA	14.457	14.456	0.001	5346311	0.08510	0.08548
3 MCPP	15.090	15.087	0.003	741285	8.52000	8.261
4 DICAMBA	15.273	15.270	0.003	1805065	0.04250	0.04277
5 MCPA	16.437	16.434	0.003	855099	8.56000	8.060
6 DICHLOROPROP	17.436	17.432	0.004	813452	0.08480	0.08521
7 2,4-D	19.076	19.070	0.006	1397840	0.08510	0.08574
8 PENTACHLOROPHENOL	19.985	19.981	0.004	2906599	0.01064	0.01078
9 2,4,5-TP(SILVEX)	20.388	20.387	0.001	7363157	0.02110	0.02136
10 2,4,5-T	21.166	21.164	0.002	6434904	0.02110	0.02145
11 DINOSEB	21.482	21.481	0.001	3169088	0.01270	0.01287
12 2,4-DB	21.636	21.635	0.001	3057377	0.08450	0.08375

673 607

Data File: \\qpltpa02\chem\gc1.1\2151.b\A-A20318.D
 Date: 21-MAR-2001 21:38
 Client ID:
 Sample Info: MHERB,2151.b
 Column phase: RTX-50

Instrument: gc1.1
 Operator: 010139
 Column diameter: 0.53

\\qpltpa02\chem\gc1.1\2151.b\A-A20318.D



678 603

60
Hp 16901B
DB1701

Report Date : 21-Mar-2001 14:26

STL-Pittsburgh

COMPOUND LISTING

Method file : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 21-Mar-2001 14:25 Number of Cpnds : 12
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events

Values

 Initial:Start Threshold 1018.000000
 Initial:End Threshold 509.000000
 Initial:Area Threshold 10180.000000
 Initial:P-P Resolution 1.000000
 Initial:Bunch Factor 8.000000
 Initial:Negative Peaks ON
 Initial:Tension 0.200000

Compound	RT	RT Window	RF
1 DALAPON	5.092	5.022-5.162	1.08e+007
\$ 2 DCAA	13.095	13.025-13.165	4.65e+007
3 DICAMBA	13.690	13.620-13.760	4.07e+007
4 MCPP	14.132	14.062-14.202	3.72e+004
5 MCPA	15.010	14.940-15.080	5.06e+004
6 DICHLOROPROP	16.150	16.080-16.220	8.52e+006
7 2,4-D	17.643	17.573-17.713	8.63e+006
8 PENTACHLOROPHENOL	18.076	18.006-18.146	1.16e+008
9 2,4,5-TP (SILVEX)	19.772	19.702-19.842	9.17e+007
10 2,4,5-T	20.544	20.474-20.614	9.70e+007
11 2,4-DB	21.122	21.052-21.192	1.45e+007
12 DINOSEB	21.829	21.759-21.899	9.28e+007

6E
Hp1890/B
08/701

678 609

Report Date : 16-Mar-2001 07:53

STL-Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2001 17:00
End Cal Date : 15-MAR-2001 19:05
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Cal Date : 16-Mar-2001 07:52 MorganW
Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20276.D
Level 2: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20277.D
Level 3: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20278.D
Level 4: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20279.D
Level 5: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20280.D

Compound	0.00500 Level 1	0.01000 Level 2	0.02500 Level 3	0.05000 Level 4	0.10000 Level 5	RRF	% RSD
1 DALAPON	11814727	10995045	10692118	10189715	10078807	10754083	6.511
3 DICAMBA	44748208	41717700	41239035	38665429	37207882	40715651	7.166
4 MCPP	54410	41776	34982	29082	25928	37235	30.473<-
5 MCPA	71727	55980	47808	40127	37151	50558	27.507<-
6 DICHLOROPROP	9833679	8976274	8627665	7824612	7326516	8517749	11.523
7 2,4-D	9102085	8752706	8892949	8347529	8034274	8625909	4.992
8 PENTACHLOROPHENOL	116801504	112681391	118291353	114317293	115624489	115543206	1.878
9 2,4,5-TP(SILVEX)	96700000	92417429	92457109	89559264	87267619	91680284	3.868
10 2,4,5-T	95448767	93322571	99955118	97740995	98428661	96979223	2.691
11 2,4-DB	14580237	13997417	14571373	14325959	15008547	14496707	2.565
12 DINOSES	95671609	90806457	93230236	91787520	92714094	92841983	1.974
\$ 2 DCAA	54031221	49824753	47115969	42031153	39652500	46531119	12.485

AVG RSD = 9.5%

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20336.D
Report Date: 21-Mar-2001 14:25

76
HP 66901B
DB 1701

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 21-MAR-2001 13:54
Lab File ID: A-B20336.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
Analysis Type: Init. Cal. Times: 17:00 19:05
Lab Sample ID: MHERB Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m

COMPOUND	RRF	RFO	MIN	RRF	%D	MAX
1 DALAPON	10754083	10509544	0.010	-2.3	15.0	
2 DCAA	46531119	45551116	0.010	-2.1	15.0	
3 DICAMBA	40715651	40298235	0.010	-1.0	15.0	
4 MCPP	37235	34832	0.010	-6.5	15.0	
5 MCPA	50558	47288	0.010	-6.5	15.0	
6 DICHLOROPROP	8517749	8458844	0.010	-0.7	15.0	
7 2,4-D	8625909	8589694	0.010	-0.4	15.0	
8 PENTACHLOROPHENOL	115543206	113388158	0.010	-1.9	15.0	
9 2,4,5-TP(SILVEX)	91680284	90752607	0.010	-1.0	15.0	
10 2,4,5-T	96979223	95718057	0.010	-1.3	15.0	
11 2,4-DB	14496707	14221917	0.010	-1.9	15.0	
12 DINOSEB	92841983	94515354	0.010	1.8	15.0	

Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20347.D
Report Date: 22-Mar-2001 07:09

678 611

76
Hp689018
081701.

STL-Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 21-MAR-2001 22:39
Lab File ID: A-B20347.D Init. Cal. Date(s): 15-MAR-2001 15-MAR-2001
Analysis Type: Init. Cal. Times: 17:00 19:05
Lab Sample ID: MHERB Quant Type: ESTD
Method: \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m

COMPOUND		RRF	RFO	MIN	MAX	
		RRF	RFO	RRF	%D	%D
-----		-----	-----	-----	-----	-----
1	DALAPON	10754083	10919157	0.010	1.5	15.0
\$	2 DCAA	46531119	46554924	0.010	0.1	15.0
3	DICAMBA	40715651	41329624	0.010	1.5	15.0
4	MCPP	37235	34674	0.010	-6.9	15.0
5	MCPA	50558	47452	0.010	-6.1	15.0
6	DICHLOROPROP	8517749	8624811	0.010	1.3	15.0
7	2,4-D	8625909	8866404	0.010	2.8	15.0
8	PENTACHLOROPHENOL	115543206	116816071	0.010	1.1	15.0
9	2,4,5-TP (SILVEX)	91680284	93560711	0.010	2.1	15.0
10	2,4,5-T	96979223	99911422	0.010	3.0	15.0
11	2,4-DB	14496707	14494722	0.010	-0.0	15.0
12	DINOSEB	92841983	98093543	0.010	5.7	15.0

678 612

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: C1C150304

GC Column: DB1701 ID: 0.53 (mm) Init. Calib. Date(s): 03/15/01 03/15/01

Instrument ID: GC1

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 13.09					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	LHERB	03/15/01	1700	13.10	
02	MLHERB	03/15/01	1731	13.10	
03	MHERB	03/15/01	1803	13.10	
04	MHERB	03/15/01	1834	13.10	
05	HHERB	03/15/01	1905	13.09	
06	2ND HERB	03/15/01	1937	13.10	
07	MHERB	03/21/01	1354	13.09	
08	DF/24-B/1073 DXGMH1CC	03/21/01	1758	13.13	
09	PBLK8453 DXLRA1AA	03/21/01	1932	13.10	
10	MHERB	03/21/01	2239	13.10	
11					
12					
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.

Data File: \\gpitpa02\d\chem\gc1.i\2151A.b\A-B20276.D
 Report Date: 16-Mar-2001 07:53

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc1.i\2151A.b\A-B20276.D
 Lab Smp Id: LHERB
 Inj Date : 15-MAR-2001 17:00
 Operator : 010139
 Smp Info : LHERB,2151A.b
 Misc Info : 190-107-1
 Comment : 8151/515 ANALYSIS
 Method : \\gpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 16-Mar-2001 07:53 morganw
 Cal Date : 15-MAR-2001 17:00
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20276.D
 Calibration Sample, Level: 1
 Compound Sublist: all.sub

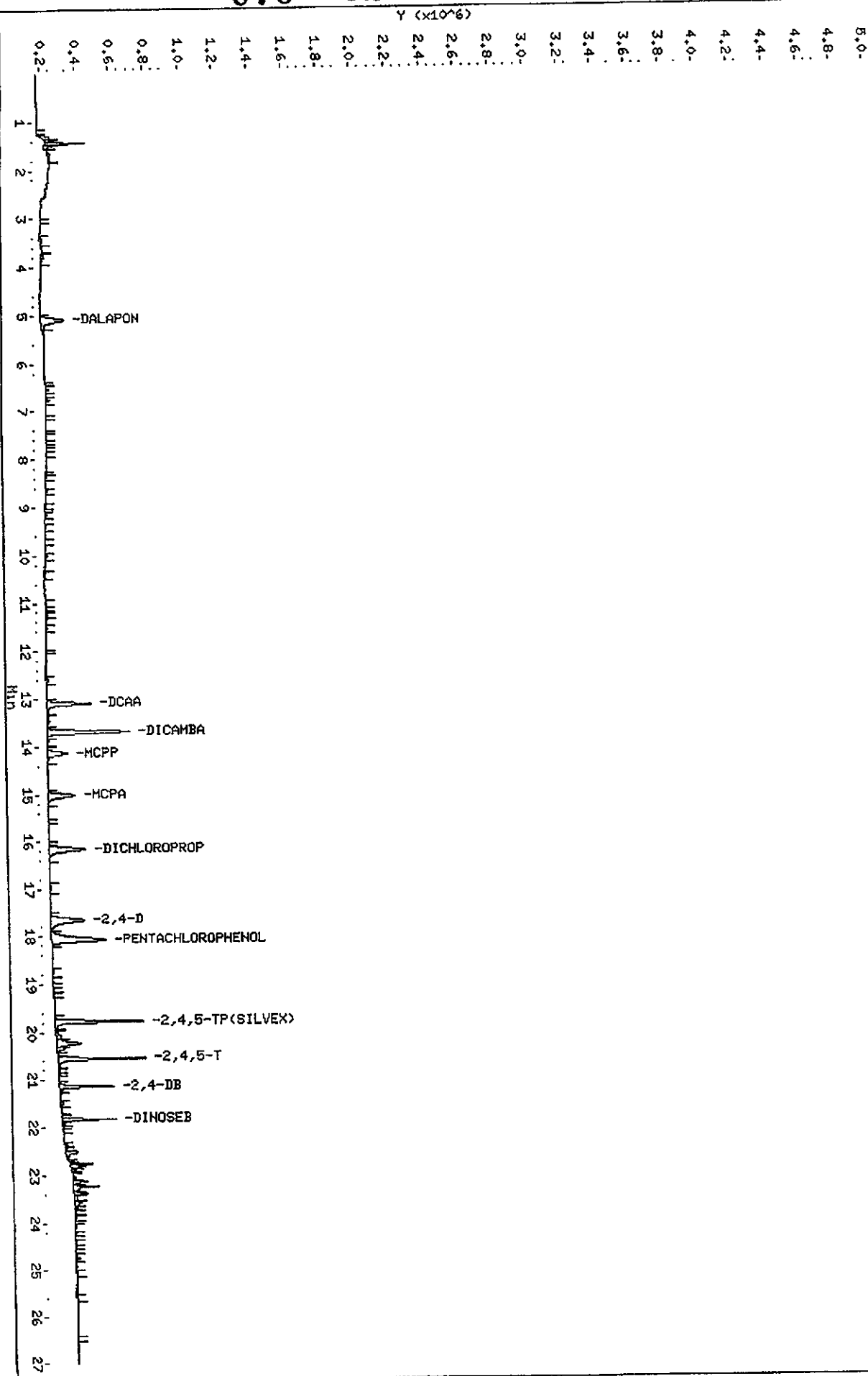
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.085	5.095	-0.010	129962	0.01100	0.01100
\$ 2 DCAA	13.095	13.098	-0.003	1150865	0.02130	0.02130
3 DICAMBA	13.687	13.692	-0.005	474331	0.01060	0.01060
4 MCPP	14.135	14.140	-0.005	115349	2.12000	2.120
5 MCPA	15.011	15.016	-0.005	153495	2.14000	2.140
6 DICHLOROPROP	16.152	16.160	-0.008	208474	0.02120	0.02120
7 2,4-D	17.656	17.652	0.004	192054	0.02110	0.02110
8 PENTACHLOROPHENOL	18.079	18.086	-0.007	310692	0.00266	0.002660
9 2,4,5-TP(SILVEX)	19.772	19.775	-0.003	507675	0.00525	0.005250
10 2,4,5-T	20.545	20.546	-0.001	503015	0.00527	0.005270
11 2,4-DB	21.124	21.125	-0.001	307643	0.02110	0.02110
12 DINOSEB	21.828	21.831	-0.003	303279	0.00317	0.003170

673 614

Data File: \\qpltpa02\chem\gcl.1\2151A.b\A-B20276.D
 Date: 15-MAR-2001 17:00
 Client ID:
 Sample Info: LHERB,2151A.b
 Column phase: DB1701

Instrument: gcl.1
 Operator: 010139
 Column diameter: 0.53

\\qpltpa02\chem\gcl.1\2151A.b\A-B20276.D



Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20277.D
 Report Date: 16-Mar-2001 07:53

678 615

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20277.D
 Lab Smp Id: MLHERB
 Inj Date : 15-MAR-2001 17:31
 Operator : 010139
 Smp Info : MLHERB,2151A.b
 Misc Info : 190-107-2
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 16-Mar-2001 07:53 morganw
 Cal Date : 15-MAR-2001 17:31
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20277.D
 Calibration Sample, Level: 2
 Compound Sublist: all.sub

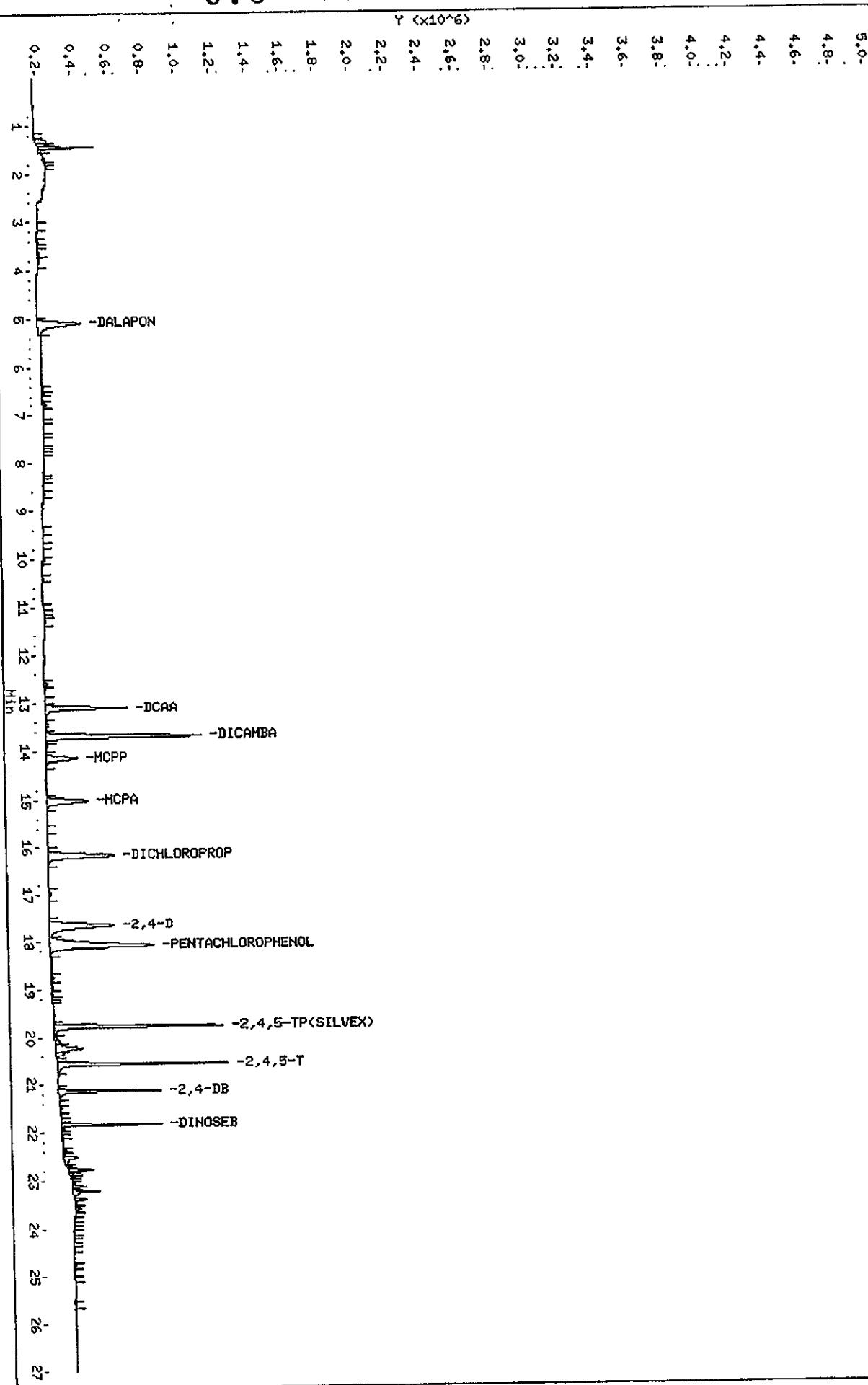
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.095	5.095	0.000	241891	0.02200	0.02121
\$ 2 DCAA	13.098	13.098	0.000	2117552	0.04250	0.04078
3 DICAMBA	13.691	13.692	-0.001	888587	0.02130	0.02055
4 MCPP	14.139	14.140	-0.001	177965	4.26000	3.700
5 MCPA	15.014	15.016	-0.002	239594	4.28000	3.752
6 DICHLOROPROP	16.158	16.160	-0.002	380594	0.04240	0.04047
7 2,4-D	17.653	17.652	0.001	371990	0.04250	0.04167
8 PENTACHLOROPHENOL	18.085	18.086	-0.001	599465	0.00532	0.005224
9 2,4,5-TP(SILVEX)	19.775	19.775	0.000	970383	0.01050	0.01026
10 2,4,5-T	20.547	20.546	0.001	979887	0.01050	0.01038
11 2,4-DB	21.126	21.125	0.001	590691	0.04220	0.04134
12 DINOSEB	21.830	21.831	-0.001	576621	0.00635	0.006184

678 616

Data File: \\pp1tpa02\chem\gc1.i\2151A.b\A-B20277.D
 Date: 15-MAR-2001 17:31
 Client ID:
 Sample Info: HLHERB, 2151A.b
 Column phase: DB1.701

Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53

\\pp1tpa02\chem\gc1.i\2151A.b\A-B20277.D



Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20278.D
Report Date: 16-Mar-2001 07:54

678 617

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20278.D
Lab Smp Id: MHERB
Inj Date : 15-MAR-2001 18:03
Operator : 010139
Smp Info : MHERB,2151A.b
Misc Info : 190-107-3
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Meth Date : 16-Mar-2001 07:53 morganw
Cal Date : 15-MAR-2001 18:03
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-B20278.D
Calibration Sample, Level: 3
Compound Sublist: all.sub

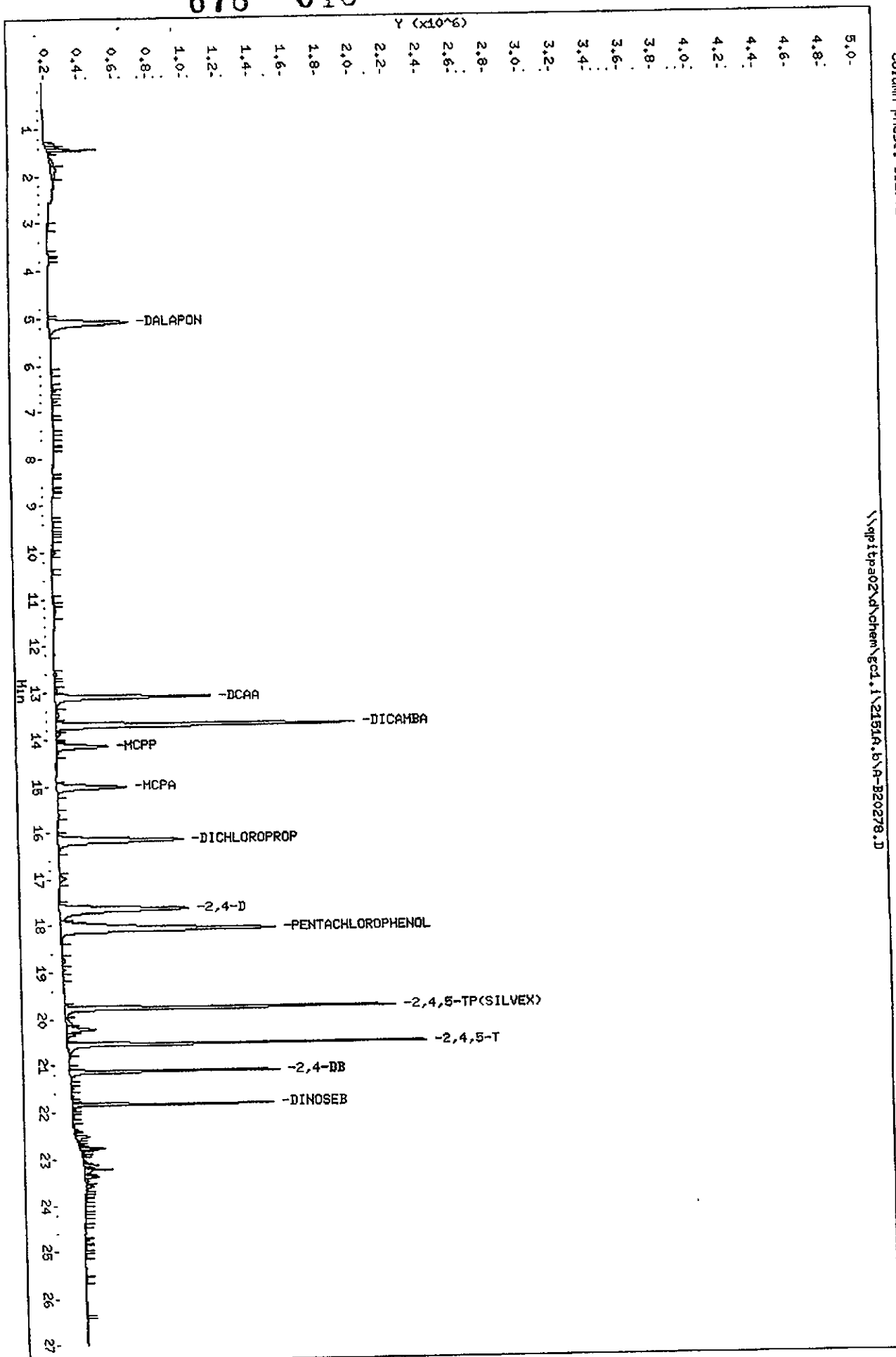
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.095	5.095	0.000	469384	0.04390	0.04203
\$ 2 DCAA	13.098	13.098	0.000	4009569	0.08510	0.07968
3 DICAMBA	13.692	13.692	0.000	1752659	0.04250	0.04117
4 MCPP	14.140	14.140	0.000	298046	8.52000	6.817
5 MCPA	15.016	15.016	0.000	409238	8.56000	6.995
6 DICHLOROPROP	16.160	16.160	0.000	731626	0.08480	0.08000
7 2,4-D	17.652	17.652	0.000	756790	0.08510	0.08488
8 PENTACHLOROPHENOL	18.086	18.086	0.000	1258620	0.01064	0.01086
9 2,4,5-TP(SILVEX)	19.775	19.775	0.000	1950845	0.02110	0.02078
10 2,4,5-T	20.546	20.546	0.000	2109053	0.02110	0.02191
11 2,4-DB	21.125	21.125	0.000	1231281	0.08450	0.08561
12 DINOSEB	21.831	21.831	0.000	1184024	0.01270	0.01270

673 613

Data File: \\gpi02\chem\ec1.1\2151A.b\A-B20278.D
 Date: 15-MAR-2001 18:03
 Client ID:
 Sample Info: HERB,2151A.b
 Column phase: DB1701

Instrument: ec1.i
 Operator: 010139
 Column diameter: 0.53

\\gpi02\chem\ec1.1\2151A.b\A-B20278.D



Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20279.D
Report Date: 16-Mar-2001 07:54

678 619

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20279.D
Lab Smp Id: MHHERB
Inj Date : 15-MAR-2001 18:34
Operator : 010139
Smp Info : MHHERB,2151A.b
Misc Info : 190-107-4
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Meth Date : 16-Mar-2001 07:53 morganw
Cal Date : 15-MAR-2001 18:34
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

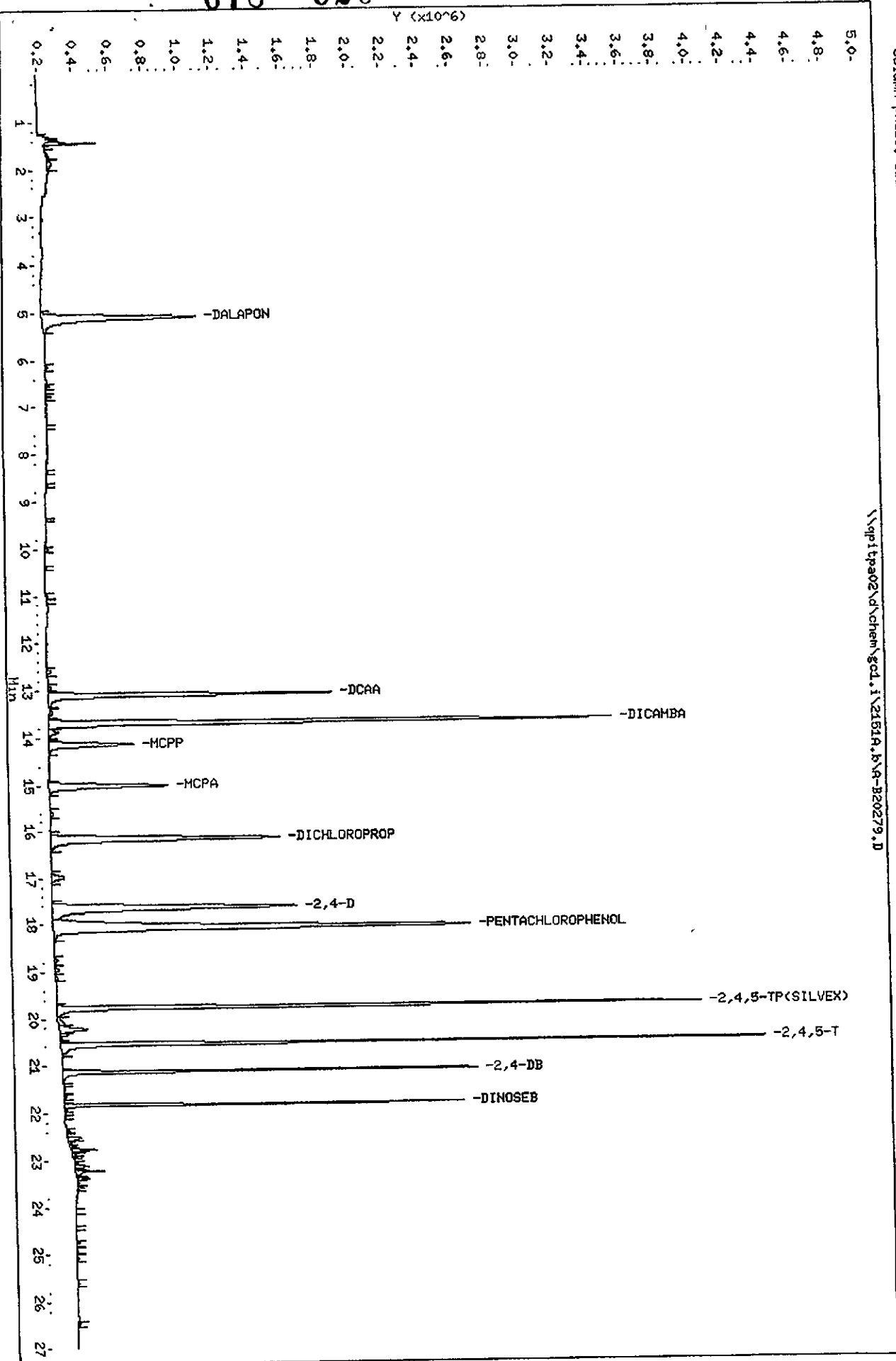
Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-B20279.D
Calibration Sample, Level: 4
Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
*****	..	*****	*****	*****	*****	*****
1 DALAPON	5.098	5.095	0.003	894657	0.08780	0.08191
\$ 2 DCAA	13.096	13.098	-0.002	7145296	0.17000	0.1481
3 DICAMBA	13.694	13.692	0.002	3290428	0.08510	0.07911
4 MCPP	14.141	14.140	0.001	494390	17.0000	12.34
5 MCPA	15.016	15.016	0.000	686170	17.1000	12.73
6 DICHLOROPROP	16.158	16.160	-0.002	1330184	0.17000	0.1509
7 2,4-D	17.648	17.652	-0.004	1419080	0.17000	0.1617
8 PENTACHLOROPHENOL	18.085	18.086	-0.001	2432672	0.02128	0.02106
9 2,4,5-TP(SILVEX)	19.776	19.775	0.001	3770445	0.04210	0.04064
10 2,4,5-T	20.545	20.546	-0.001	4124670	0.04220	0.04269
11 2,4-DB	21.124	21.125	-0.001	2421087	0.16900	0.1685
12 DINOSEB	21.831	21.831	0.000	2331403	0.02540	0.02510

678 620

Data File: \\qpltpa02\chem\col.1\2151A.b\A-B20279.D
 Date: 15-MAR-2001 18:34
 Client ID:
 Sample Info: MHERB, 2151A.b
 Column phase: DB1701

Instrument: col.1
 Operator: 010139
 Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20280.D
Lab Smp Id: HHERB
Inj Date : 15-MAR-2001 19:05
Operator : 010139
Smp Info : HHERB,2151A.b
Misc Info : 190-107-5
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Meth Date : 16-Mar-2001 07:53 morganw
Cal Date : 15-MAR-2001 19:05
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

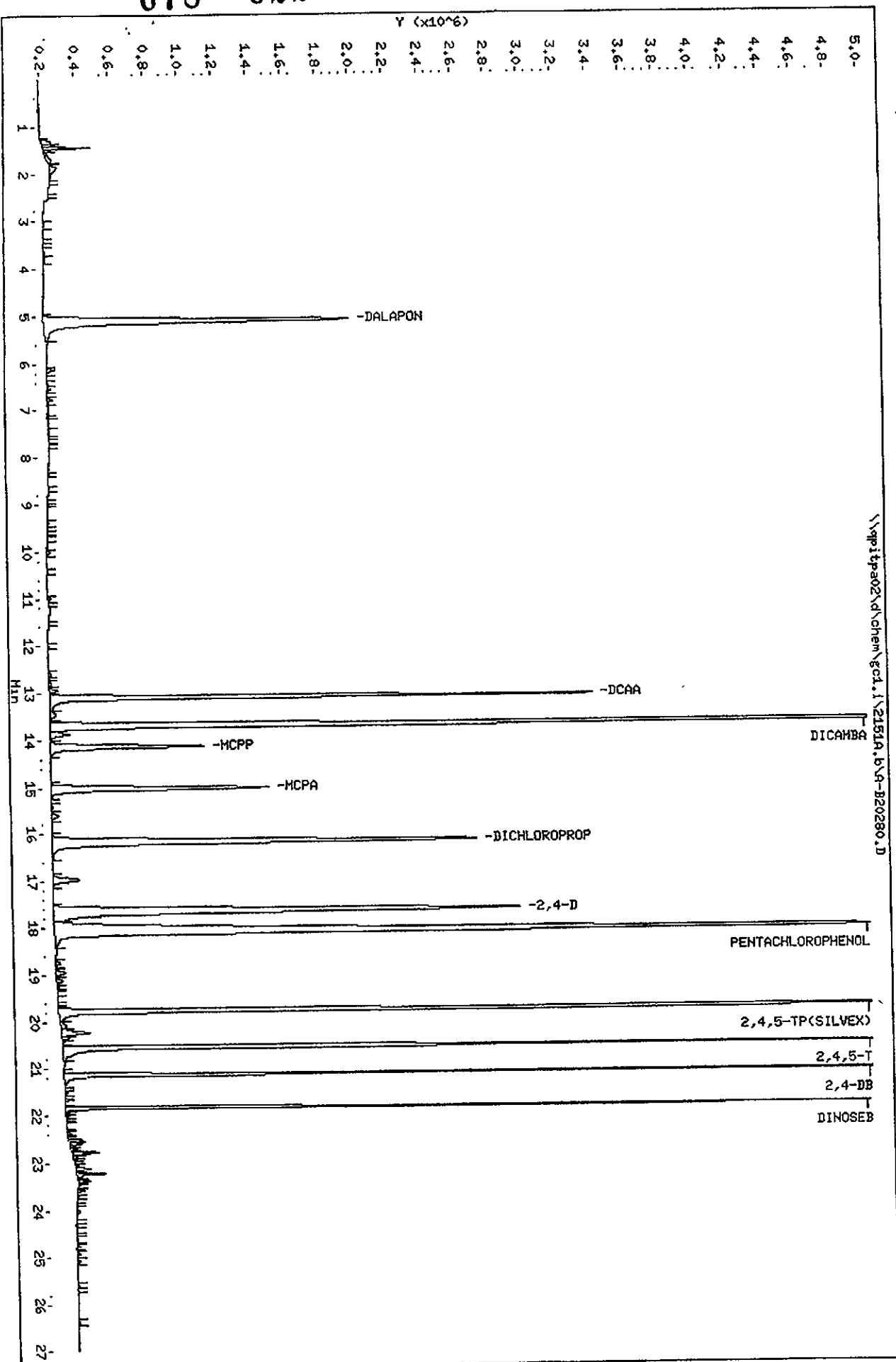
Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-B20280.D
Calibration Sample, Level: 5
Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.094	5.095	-0.001	1773870	0.17600	0.1649
\$ 2 DCAA	13.093	13.098	-0.005	13481850	0.34000	0.2897
3 DICAMBA	13.692	13.692	0.000	6325340	0.17000	0.1554
4 MCPP	14.138	14.140	-0.002	884138	34.1000	23.74
5 MCPA	15.014	15.016	-0.002	1263129	34.0000	24.98
6 DICHLOROPROP	16.154	16.160	-0.006	2483689	0.33900	0.2916
7 2,4-D	17.643	17.652	-0.009	2731653	0.34000	0.3167
8 PENTACHLOROPHENOL	18.087	18.086	0.001	4919822	0.04255	0.04258
9 2,4,5-TP(SILVEX)	19.775	19.775	0.000	7330480	0.08400	0.07996
10 2,4,5-T	20.544	20.546	-0.002	8307379	0.08440	0.08566
11 2,4-DB	21.122	21.125	-0.003	5072889	0.33800	0.3499
12 DINOSEB	21.831	21.831	0.000	4709876	0.05080	0.05073

673 622

Data File: \\ppitpa02\chem\gc1.i\2151A.b\A-B20280.D
 Date: 15-MAR-2001 19:05
 Client ID:
 Sample Info: HERB, 2151A.b
 Column phase: DB1.701

Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53



STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20281.D
 Lab Smp Id: 2ND HERB
 Inj Date : 15-MAR-2001 19:37
 Operator : 010139
 Smp Info : 2ND HERB,2151A.b
 Misc Info : 190-119-8
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 16-Mar-2001 08:12 MorganW
 Cal Date : 15-MAR-2001 19:05
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC003

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-B20280.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

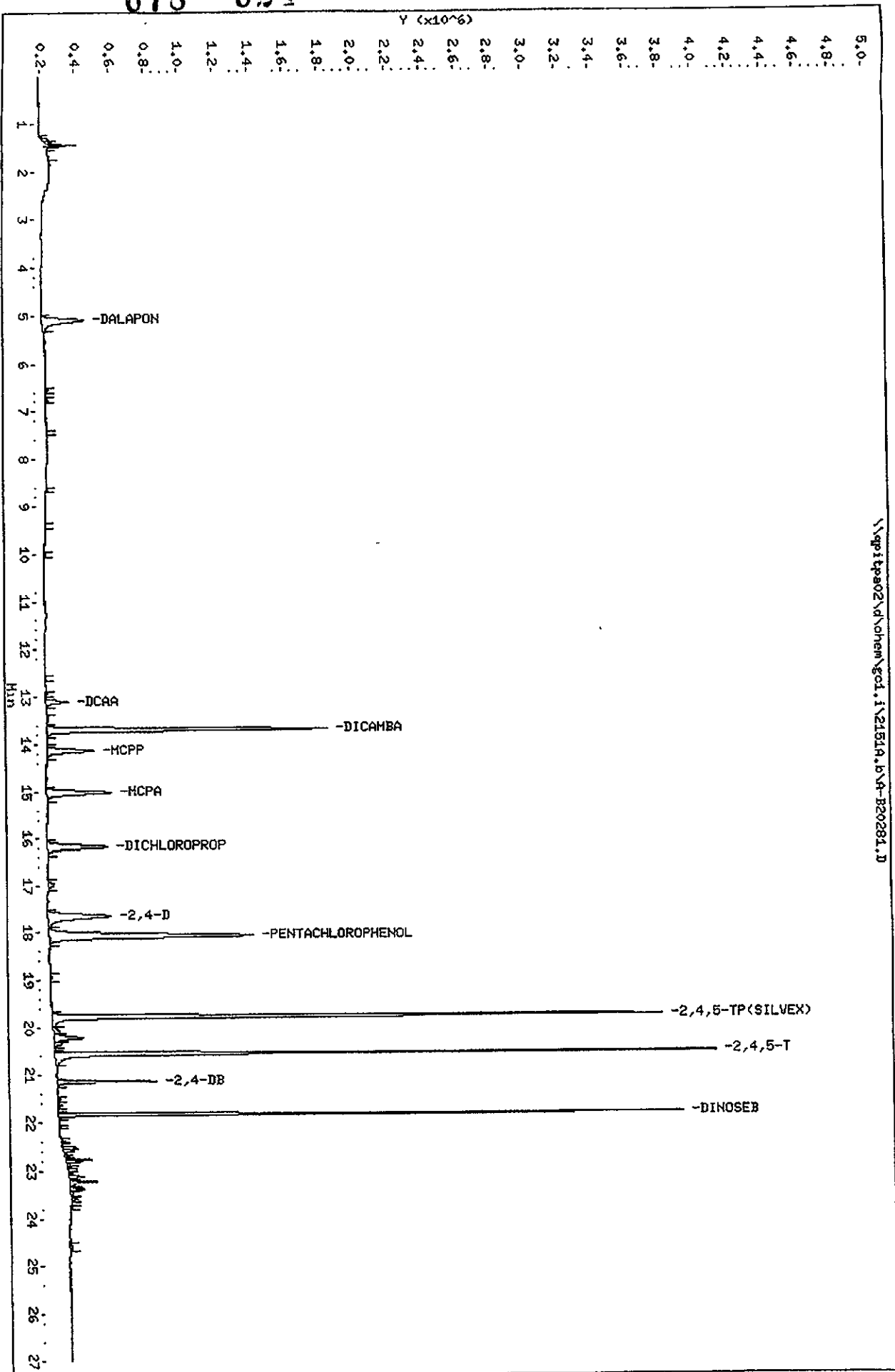
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.096	5.095	0.001	244786	0.04390	0.02276
\$ 2 DCAA	13.100	13.098	0.002	548741	0.08510	0.01179
3 DICAMBA	13.693	13.692	0.001	1618621	0.04250	0.03975
4 MCPP	14.139	14.140	-0.001	274544	8.52000	7.373
5 MCPA	15.013	15.016	-0.003	378187	8.56000	7.480
6 DICHLOROPROP	16.159	16.160	-0.001	351699	0.08480	0.04129
7 2,4-D	17.658	17.652	0.006	364671	0.08510	0.04228
8 PENTACHLOROPHENOL	18.089	18.086	0.003	1177660	0.01064	0.01019
9 2,4,5-TP(SILVEX)	19.774	19.775	-0.001	3542326	0.02110	0.03864
10 2,4,5-T	20.544	20.546	-0.002	3838824	0.02110	0.03958
11 2,4-DB	21.125	21.125	0.000	574430	0.08450	0.03962
12 DINOSEB	21.831	21.831	0.000	3627416	0.01270	0.03907

678 624

Data File: \\qpltpa02\chem\col.1\2151A.b\A-B20281.D
 Date: 15-MAR-2001 19:37
 Client ID:
 Sample Info: 2ND HERB, 2151A.b
 Column phase: DB1701

Instrument: col.1
 Operator: 010139
 Column diameter: 0.53

\\qpltpa02\chem\col.1\2151A.b\A-B20281.D



Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20336.D
Report Date: 21-Mar-2001 14:26

673 625

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20336.D
Lab Smp Id: MHERB
Inj Date : 21-MAR-2001 13:54
Operator : 010139
Smp Info : MHERB,2151A.b
Misc Info : 190-107-3
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Meth Date : 21-Mar-2001 14:26 morganw
Cal Date : 15-MAR-2001 19:05
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC003

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-B20280.D
Continuing Calibration Sample
Compound Sublist: all.sub

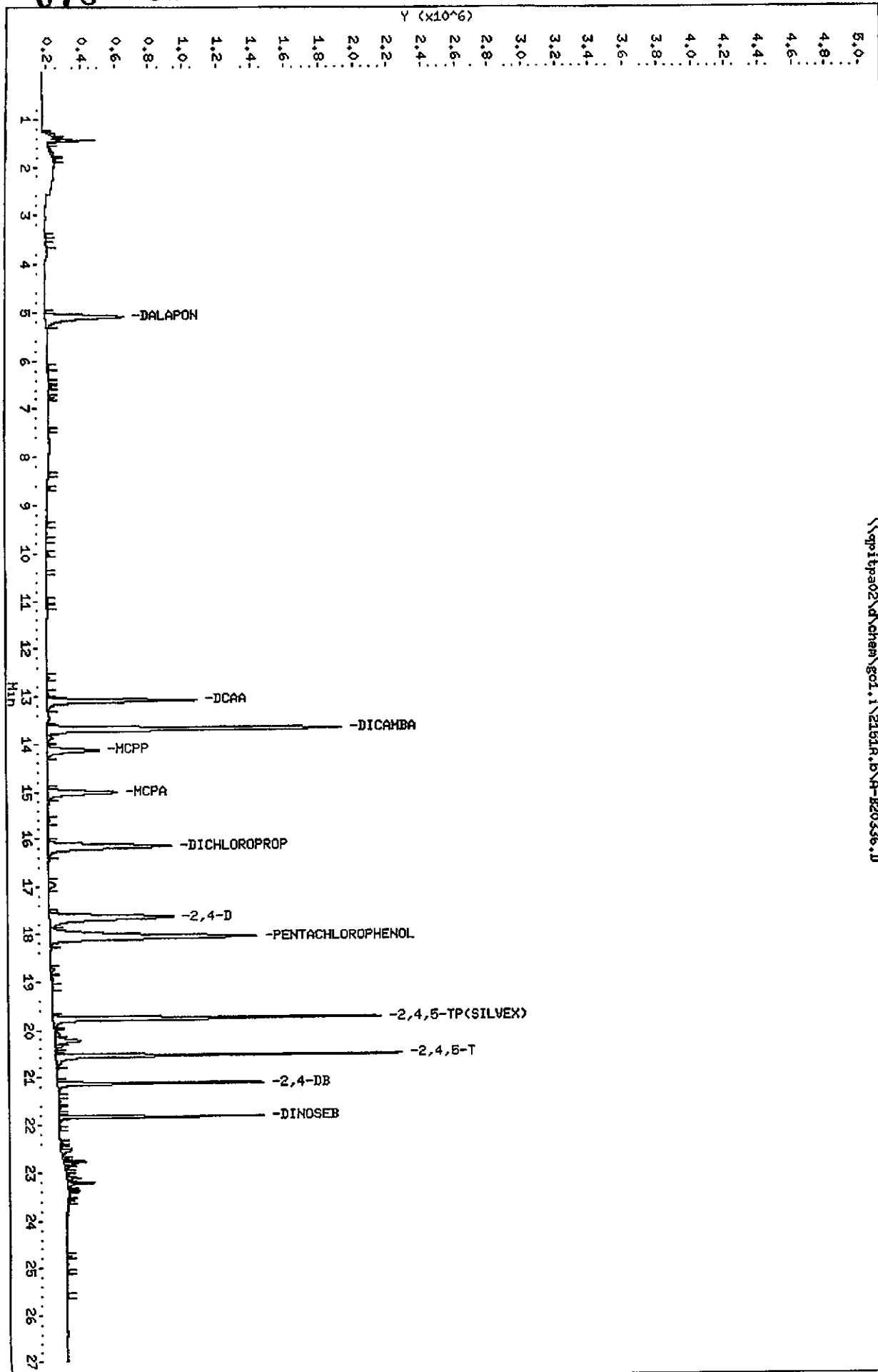
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.092	5.092	0.000	461369	0.04390	0.04290
\$ 2 DCAA	13.094	13.094	0.000	3876400	0.08510	0.08331
3 DICAMBA	13.689	13.689	0.000	1712675	0.04250	0.04206
4 MCPP	14.132	14.132	0.000	296765	8.52000	7.970
5 MCPA	15.009	15.009	0.000	404781	8.56000	8.006
6 DICHLOROPROP	16.150	16.150	0.000	717310	0.08480	0.08421
7 2,4-D	17.642	17.642	0.000	730983	0.08510	0.08474
8 PENTACHLOROPHENOL	18.076	18.076	0.000	1206450	0.01064	0.01044
9 2,4,5-TP(SILVEX)	19.772	19.772	0.000	1914880	0.02110	0.02089
10 2,4,5-T	20.543	20.543	0.000	2019651	0.02110	0.02082
11 2,4-DB	21.122	21.122	0.000	1201752	0.08450	0.08290
12 DINOSEB	21.828	21.828	0.000	1200345	0.01270	0.01293

673 626

Data File: \\ppitpa02\chem\gol.1\2151A.b\A-B20336.D
 Date: 21-MAR-2001 13:54
 Client ID:
 Sample Info: MHERB,2151A.b
 Column phase: DB1701

Instrument: gol.1
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\gol.1\2151A.b\A-B20336.D



Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20347.D
 Report Date: 22-Mar-2001 07:34

678 627

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20347.D
 Lab Smp Id: MHERB
 Inj Date : 21-MAR-2001 22:39
 Operator : 010139 Inst ID: gc1.i
 Smp Info : MHERB,2151A.b
 Misc Info : 190-107-3
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
 Meth Date : 22-Mar-2001 07:09 MorganW Quant Type: ESTD
 Cal Date : 15-MAR-2001 19:05 Cal File: A-B20280.D
 Als bottle: 12 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC003

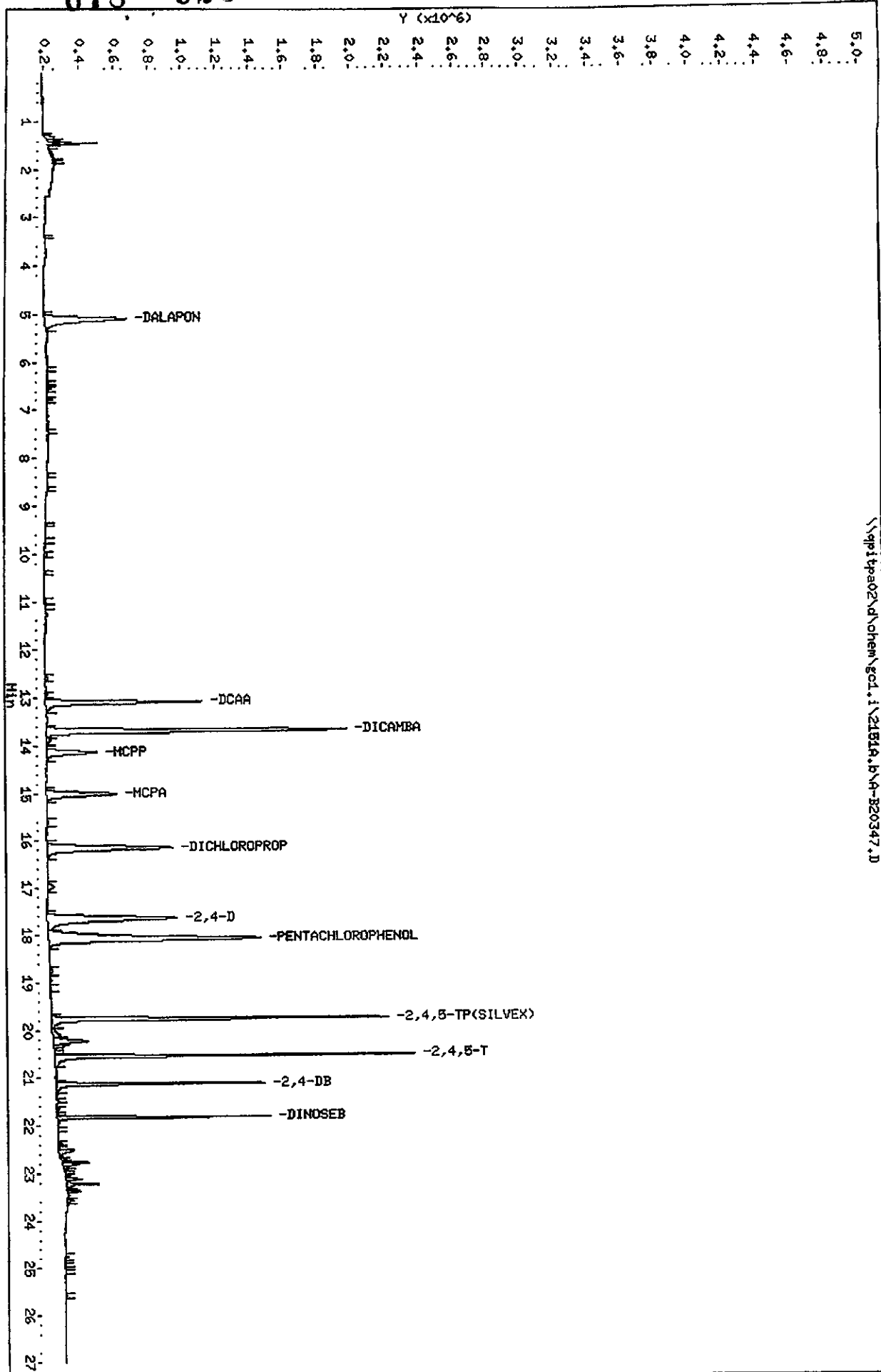
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	5.096	5.092	0.004	479351	0.04390	0.04457
\$ 2 DCAA	13.096	13.094	0.002	3961824	0.08510	0.08514
3 DICAMBA	13.691	13.689	0.002	1756509	0.04250	0.04314
4 MCPP	14.137	14.132	0.005	295423	8.52000	7.934
5 MCPA	15.013	15.009	0.004	406193	8.56000	8.034
6 DICHLOROPROP	16.155	16.150	0.005	731384	0.08480	0.08586
7 2,4-D	17.651	17.642	0.009	754531	0.08510	0.08747
8 PENTACHLOROPHENOL	18.082	18.076	0.006	1242923	0.01064	0.01076
9 2,4,5-TP(SILVEX)	19.773	19.772	0.001	1974131	0.02110	0.02153
10 2,4,5-T	20.545	20.543	0.002	2108131	0.02110	0.02174
11 2,4-DB	21.123	21.122	0.001	1224804	0.08450	0.08449
12 DINOSEB	21.828	21.828	0.000	1245788	0.01270	0.01342

673 623

Data File: \\pptpa02\chem\gc1.i\2151A.b\A-B20347.D
 Date: 21-Mar-2001 22:39
 Client ID:
 Sample Info: HHERB, 2151A.b
 Column phase: DB1701

Instrument: gc1.i
 Operator: 010139
 Column diameter: 0.53

\\pptpa02\chem\gc1.i\2151A.b\A-B20347.D



HERBICIDE
QC DATA

678 630

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) WATER
Method: SW846 8151A
Herbicides (8151A)

Lab Sample ID: C1C190000 453

Sample WT/Vol: 1000 / mL
Work Order: DXLRALAA
Dilution factor: 1
Moisture %: NA

Date Received: 03/15/01
Date Extracted: 03/19/01
Date Analyzed: 03/21/01

QC Batch: 1078453

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

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc1.i\2151.b\A-A20312.D
 Lab Smp Id: DXLRA1AA Client Smp ID: PBLK8453
 Inj Date : 21-MAR-2001 18:30
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXLRA1AA,2151.b
 Misc Info : 150304BLK
 Comment : 8151/515 ANALYSIS
 Method : \\gpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 22-Mar-2001 07:42 MorganW Quant Type: ESTD
 Cal Date : 15-MAR-2001 18:34 Cal File: A-A20279.D
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC003

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

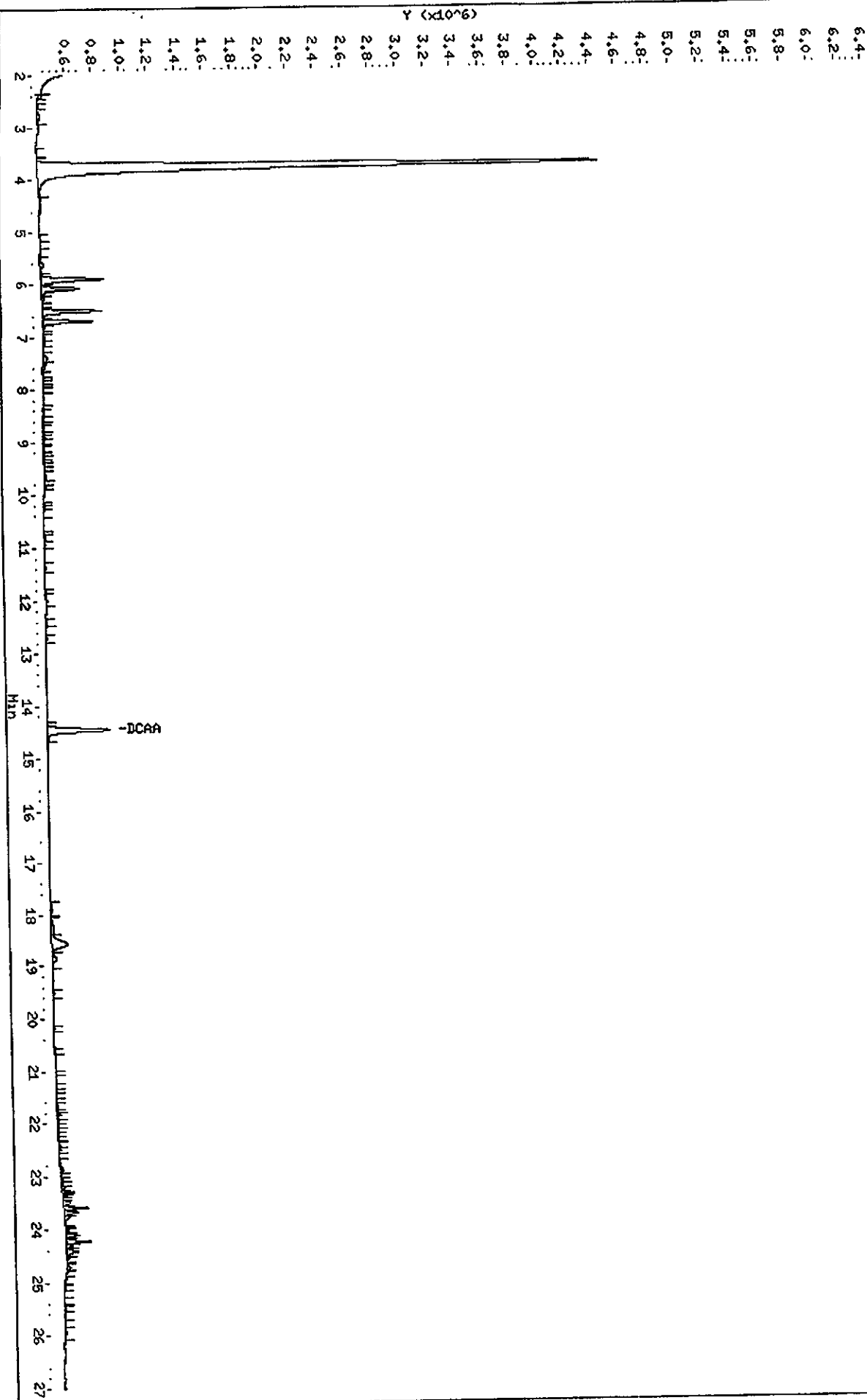
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON						
\$ 2 DCAA	14.456	14.456	0.000	2371018	0.03791	7.582
3 MCPP						
4 DICAMBA						
5 MCPA						
6 DICHLOROPROP						
7 2,4-D						
8 PENTACHLOROPHENOL						
9 2,4,5-TP(SILVEX)						
10 2,4,5-T						
11 DINOSEB						
12 2,4-DB						

673 632

Data File: \\pptpa02\chem\gc1.1\2151.b\A-A20312.D
 Date : 21-MAR-2004 18:30
 Client ID: PBLK8453
 Sample Info: DILR04A0,2151.b
 Volume Injected (uL): 1.0
 Column phase: RTX-50

Instrument: gc1.1
 Operator: 010139
 Column diameter: 0.53

\\pptpa02\chem\gc1.1\2151.b\A-A20312.D



Data File: \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20341.D
Report Date: 22-Mar-2001 07:29

678 633

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151A.b\A-B20341.D
Lab Smp Id: DXLRA1AA Client Smp ID: PBLK8453
Inj Date : 21-MAR-2001 19:32
Operator : 010139 Inst ID: gc1.i
Smp Info : DXLRA1AA,2151A.b
Misc Info : 150304BLK
Comment : 8151/515 ANALYSIS
Method : \\qpitpa02\d\chem\gc1.i\2151A.b\LONGHB.m
Meth Date : 22-Mar-2001 07:09 MorganW Quant Type: ESTD
Cal Date : 15-MAR-2001 19:05 Cal File: A-B20280.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC003

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

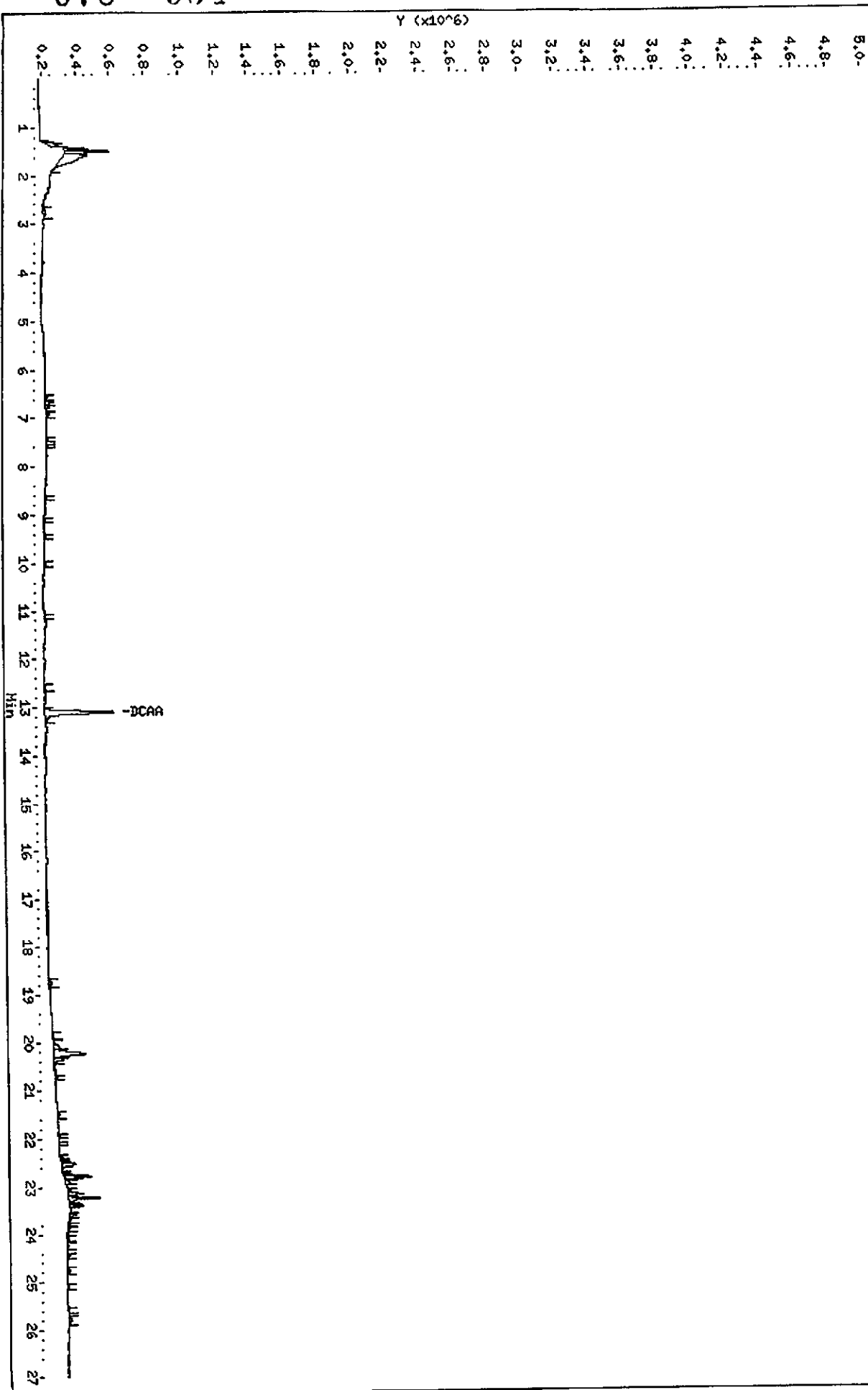
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON						
\$ 2 DCAA	13.100	13.094	0.006	1802137	0 03873	7.746
3 DICAMBA						
4 MCPP						
5 MCPA						
6 DICHLOROPROP						
7 2,4-D						
8 PENTACHLOROPHENOL						
9 2,4,5-TP(SILVEX)						
10 2,4,5-T						
11 2,4-DB						
12 DINOSEB						

678 634

Data File: \\ppitp02\chem\gc1.i\2151A.b\A-B20341.D
Date: 21-Mar-2001 19:32
Client ID: PBLK8453
Sample Info: BMLR61A9, 2151A.b
Volume Injected (uL): 1.0
Column phase: DB1701

Instrument: gc1.i
Operator: 040139
Column diameter: 0.83

\\ppitp02\chem\gc1.i\2151A.b\A-B20341.D



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) WATER

Lab Sample ID: C1C190000 453

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXLRALAC

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078453

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:		
		(ug/L or ug/kg)	ug/L	Q
94-75-7	2,4-D		11.0	
93-72-1	2,4,5-TP (Silvex)		2.94	

673. 636

Data File: \\qpitpa02\d\chem\gc1.i\2151.b\A-A20310.D
 Report Date: 22-Mar-2001 07:57

STL-Pittsburgh

Data file : \\qpitpa02\d\chem\gc1.i\2151.b\A-A20310.D
 Lab Smp Id: DXLRA1AC Client Smp ID: LCS8453
 Inj Date : 21-MAR-2001 17:27
 Operator : 010139 Inst ID: gc1.i
 Smp Info : DXLRA1AC,2151.b
 Misc Info : 150304LCS
 Comment : 8151/515 ANALYSIS
 Method : \\qpitpa02\d\chem\gc1.i\2151.b\LONGH.m
 Meth Date : 22-Mar-2001 07:42 MorganW Quant Type: ESTD
 Cal Date : 15-MAR-2001 18:34 Cal File: A-A20279.D
 Als bottle: 4 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC003

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

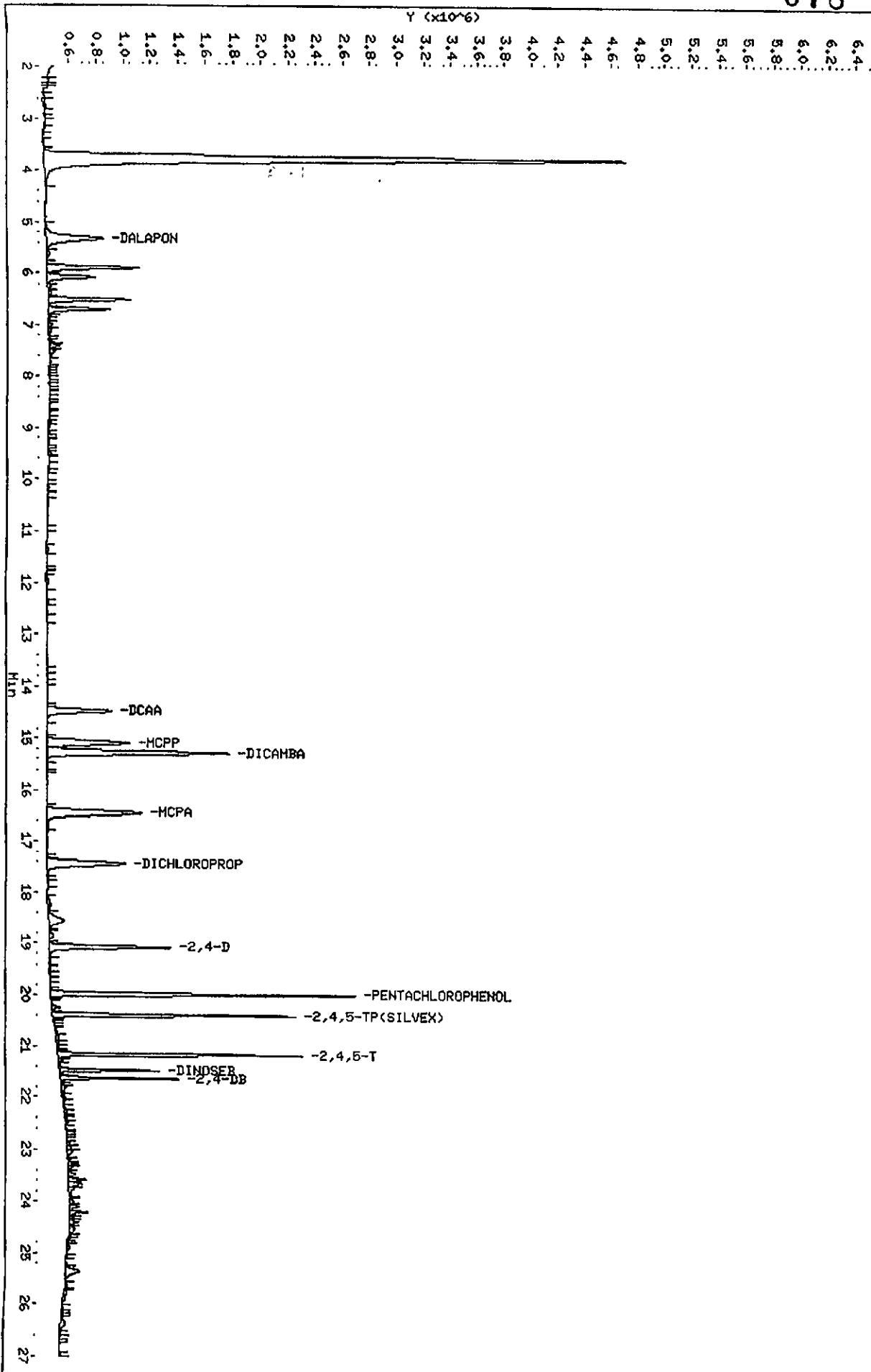
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	5.319	5.315	0.004	420071	0.04741	9.482
\$ 2 DCAA	14.460	14.456	0.004	2513350	0.04018	8.037
3 MCPP	15.091	15.087	0.004	611215	6 81137	1362
4 DICAMBA	15.275	15.270	0.005	1337606	0 03169	6 339
5 MCPA	16.437	16.434	0.003	703934	6.63503	1327
6 DICHLOROPROP	17.437	17.432	0.005	584676	0.06125	12 25
7 2,4-D	19.077	19.070	0.007	896563	0.05499	11.00
8 PENTACHLOROPHENOL	19.983	19.981	0.002	2242961	0.00832	1.663
9 2,4,5-TP(SILVEX)	20.389	20.387	0.002	5061786	0.01468	2.937
10 2,4,5-T	21.167	21.164	0.003	4350676	0.01450	2.900
11 DINOSEB	21.482	21.481	0.001	1795767	0.00729	1.458
12 2,4-DB	21.637	21.635	0.002	1987282	0.05444	10.89

673 637

Data File: \\ppitpa02\chem\gc1.i\2151.b\A-A20310.D
 Date : 21-MAR-2001 17:27
 Client ID: LCS8453
 Sample Info: DKLRLAC,2151.b
 Volume Injected (uL): 1.0
 Column Phase: RTX-50

Instrument: gc1.1
 Operator: 010139
 Column diameter: 0.53

\\ppitpa02\chem\gc1.i\2151.b\A-A20310.D



678 638

UXB INTERNATIONAL
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) WATER

Lab Sample ID: C1C190000 453

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 1000 / mL

Date Received: 03/15/01

Work Order: DXLR1AD

Date Extracted: 03/19/01

Dilution factor: 1

Date Analyzed: 03/21/01

Moisture %: NA

QC Batch: 1078453

Client Sample Id: DUPLICATE CHECK

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
94-75-7	2,4-D	8.84	P
93-72-1	2,4,5-TP (Silvex)	2.95	

Data File: \\gpitpa02\d\chem\gc1.i\2151.b\A-A20311.D
Report Date: 22-Mar-2001 07:57

678 639

STL-Pittsburgh

Data file : \\gpitpa02\d\chem\gc1.i\2151.b\A-A20311.D
Lab Smp Id: DXLRA1AD Client Smp ID: LCD8453
Inj Date : 21-MAR-2001 17:58
Operator : 010139 Inst ID: gc1.i
Smp Info : DXLRA1AD,2151.b
Misc Info : 150304LCD
Comment : 8151/515 ANALYSIS
Method : \\gpitpa02\d\chem\gc1.i\2151.b\LONGH.m
Meth Date : 22-Mar-2001 07:42 MorganW Quant Type: ESTD
Cal Date : 15-MAR-2001 18:34 Cal File: A-A20279.D
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.04
Processing Host: PITPC003

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

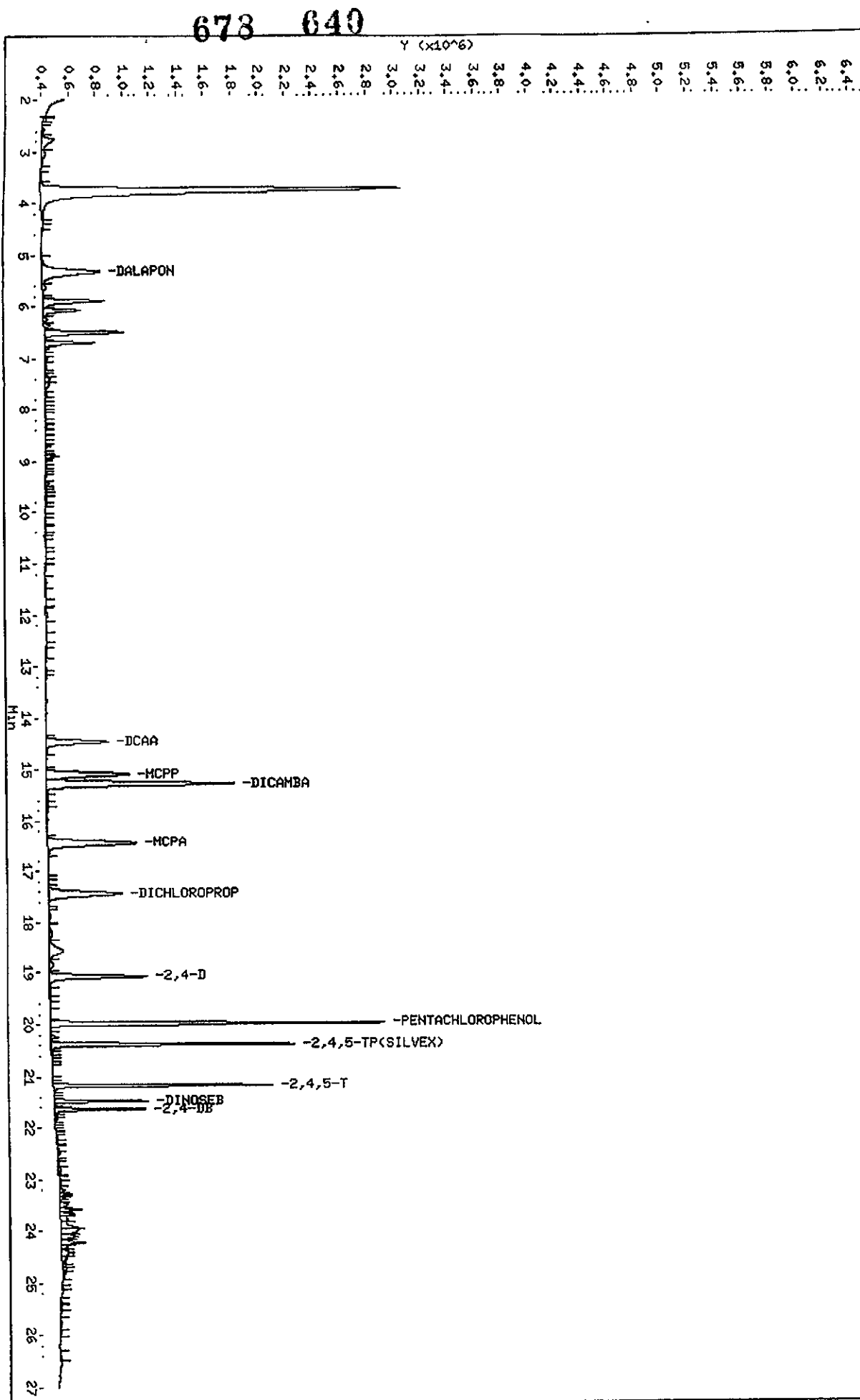
Name	Value	Description
DF	1.000	Dilution Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	5.322	5.315	0.007	427189	0.04822	9.643
\$ 2 DCAA	14.458	14.456	0.002	2401407	0.03839	7.679
3 MCPP	15.087	15.087	0.000	611191	6.81110	1362
4 DICAMBA	15.272	15.270	0.002	1377640	0.03264	6.528
5 MCPA	16.432	16.434	-0.002	663539	6.25428	1251
6 DICHLOROPROP	17.433	17.432	0.001	545845	0.05718	11.44
7 2,4-D	19.073	19.070	0.003	720419	0.04419	8.837
8 PENTACHLOROPHENOL	19.982	19.981	0.001	2457952	0.00911	1.823
9 2,4,5-TP(SILVEX)	20.388	20.387	0.001	5086914	0.01476	2.951
10 2,4,5-T	21.165	21.164	0.001	3986763	0.01329	2.657
11 DINOSEB	21.482	21.481	0.001	1591267	0.00646	1.292
12 2,4-DB	21.636	21.635	0.001	1589146	0.04353	8.706

Data File: \\qpltpa02\chem\gc1.1\2151.b\A-020311.D
 Date: 21-MAR-2001 17:58
 Client ID: LCD8453
 Sample Info: DKLRLAD, 2151.b
 Volume Injected (uL): 1.0
 Column phase: RTX-50

Instrument: gc1.1
 Operator: 010139
 Column diameter: 0.53

\\qpltpa02\chem\gc1.1\2151.b\A-020311.D



HERBICIDE
MISCELLANEOUS

678 642

STL - Pittsburgh

Separatory Funnel Extraction Worksheet

Logbook ID: OP50

STL Pittsburgh

Start Date	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mig	Cleanup Method			
3-19-01	3-20-01	Nerb-(815A)	3510C	MRL Ethanol	T05E08	B6193 Baker/B+	NA			
Lot Number	Sample ID	Client ID	Sample Volume (mL)	Final Volume (mL)	pH	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	Cleanup Date
1. P150304 BPR	NA	NA	1000	10.0	5.12	190-121-	1.0	NA	NA	NA
2.	LPS				5.11					
3.	LPSDOP				5.11					
4.	COI				7.11					
5.										
6.										
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										
Analyt	Extract(s)	Time	Extract(s) Received	Location	Date	Analyst	Time	Extract(s) Relinquished	Location	
PY	PY	3-19-01	PY	Jed	3-19-01	PY	PY	PY	PY CY	
All Above		3-19-01 2000			3-19-01 2010					
All Above		3-20-01 0100			3-20-01 0830					
All Above		3-21-01 0100			3-21-01 1000					

P. Yushinski
3-19-01

Reviewed by: [Signature]
 Date: 3-20-01

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
1	1	8151/515 HERB ANALYSIS
2	2	275 190-107-1
3	3	276 190-107-2
4	4	277 190-107-3
5	5	278 190-107-4
6	6	279 190-107-5
7	7	280 190-119-8
8	8	281 190-115-14
9	9	282 070142003 50X
10	10	283 070142004 50X
11	11	284 070142005 50X 100X
12	12	285 070142006 50X
13	13	286 070142LCS
14	14	287 070142LCD
15	15	288 070142BLK
16	16	289 190-107-3

Created: 3-15-01 wum A

✓ DE 3-19-01

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	HERB	1	Sample		
2	2	LHERB,2151.b	HERB	1	Sample		
3	3	MLHERB,2151.b	HERB	1	Sample		
4	4	MHERB,2151.b	HERB	1	Sample		
5	5	MHHERB,2151.b	HERB	1	Sample		
6	6	HHERB,2151.b	HERB	1	Sample		
7	7	2ND HERB,2151.b	HERB	1	Sample		
8	8	LPC ,2151.b	HERB	1	Sample		
9	9	DW2LC1AA ,2151.b	HERB	1	Sample		
10	10	DW2LE1AA ,2151.b	HERB	1	Sample		
11	11	DW2LF1AA ,2151.b	HERB	1	Sample		
12	12	DW2LH1AA ,2151.b	HERB	1	Sample		
13	13	DW5J21AC ,2151.b	HERB	1	Sample		

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information	created: 3-21-01 aum	A
1	1	8151/515 HERB ANALYSIS		
2	1	8151/515 HERB ANALYSIS		
3	2	308 190-107-3		
4	3	309 150304001		
5	4	310 150304LCS		
6	5	311 150304LCD		
7	6	312 150304BLK		
8	7	313 190-115-14		
9	8	314 150272001		
10	9	315 150272LCS		
11	10	316 150272LCD		
12	11	317 150272BLK		
13	12	318 190-107-3		

✓ DE 32201

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	100	8151/515 HERB ANALYSIS
2	100	8151/515 HERB ANALYSIS
3	1	8151/515 HERB ANALYSIS
4	2	190-107-3
5	100	8151/515 HERB ANALYSIS
6	3	150304001
7	4	150304LCS
8	5	150304LCD
9	6	150304BLK

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
14	14	DW5J21AD ,2151.b	HERB	1	Sample		
15	15	DW5J21AA ,2151.b	HERB	1	Sample		
16	16	MHERB ,2151.b	HERB	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
1	100	8151/515 HERB ANALYSIS
2	1	8151/515 HERB ANALYSIS
3	2	276 190-107-1
4	3	277 190-107-2
5	4	278 190-107-3
6	5	279 190-107-4
7	6	280 190-107-5
8	7	281 190-119-8
9	8	282 190-115-14
10	9	283 070142003 50X
11	10	284 070142004 50X
12	11	285 070142005 50X 100X
13	12	286 070142006 50X
14	13	287 070142LCS
15	14	288 070142LCD
16	15	289 070142BLK
17	16	290 190-107-3

Created: 3-15-01 wcm B

✓ DE 3-19-01

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	100	HEXANE	HERBA	1	Sample		
2	1	HEXANE	HERBA	1	Sample		
3	2	LHERB, 2151A.b	HERBA	1	Sample		
4	3	MLHERB, 2151A.b	HERBA	1	Sample		
5	4	MHERB, 2151A.b	HERBA	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
6	5	MHHERB,2151A.b	HERBA	1	Sample	678	646
7	6	HHERB,2151A.b	HERBA	1	Sample		
8	7	2ND HERB,2151A.b	HERBA	1	Sample		
9	8	LPC ,2151A.b	HERBA	1	Sample		
10	9	DW2LC1AA,2151A.b	HERBA	1	Sample		
11	10	DW2LE1AA,2151A.b	HERBA	1	Sample		
12	11	DW2LF1AA,2151A.b	HERBA	1	Sample		
13	12	DW2LH1AA,2151A.b	HERBA	1	Sample		
14	13	DW5J21AC,2151A.b	HERBA	1	Sample		
15	14	DW5J21AA,2151A.b	HERBA	1	Sample		
16	15	DW5J21AA,2151A.b	HERBA	1	Sample		
17	16	MHERB ,2151A.b	HERBA	1	Sample		

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	1	8151/515 HERB ANALYSIS
2	1	8151/515 HERB ANALYSIS
3	2	190-107-3
4	3	150304001
5	4	150304LCS
6	5	150304LCD
7	6	150304BLK
8	7	190-115-14
9	8	150272001
10	9	150272LCS
11	10	150272LCD
12	11	150272BLK
13	12	190-107-3

Created: 3-21-01 awm B

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	100	8151/515 HERB ANALYSIS
2	100	8151/515 HERB ANALYSIS
3	1	8151/515 HERB ANALYSIS
4	2 336	190-107-3
5	100	8151/515 HERB ANALYSIS
6	3 338	150304001
7	4 339	150304LCS
8	5 340	150304LCD
9	6 341	150304BLK

✓ DE 3-22-01

10 7 342 190-115-14
11 8 343 150272001
12 9 344 150272LCS
13 10 345 150272LCD
14 11 346 150272BLK
15 12 347 190-107-3

REQUESTED BY: YUSHINSC

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>
11C CLP1	DXGMH-1-CC	— — —	321464	399411	I-0A-QS	C1C150304	001		WATER	0	13 1

Used 1 liter per sample, and
empty bottle was thrown away

P. Yushinski
3-19-01

RELINQUISHED BY

RECEIVED BY

DATE/TIME

P. Yushinski
P. Yushinski

P. Yushinski
P. Yushinski

3-19-01 1520
3-19-01 183

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

678 650

METALS DATA

STL-Pittsburgh

Cover Page - Inorganic Analysis Data Package

Client ID	Lab Sample ID:
DF/24-B/1073/IDW/003	DXGMH
DF/24-B/1073/IDW/003S	DXGMHS
DF/24-B/1073/IDW/003SD	DXGMHD

Comments: UXB , DUNN FIELD
C1C150304
METALS ANALYSIS
6010B, 7470A

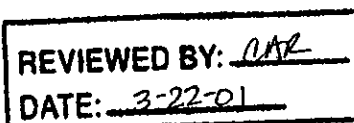
I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been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

Signature: _____

Name: _____

Date: _____

Title: _____



678 652

METALS
RESULTS

Initial Calibration Verification Standard

Instrument: CVAAUnits: ug/LChart Number: 0316HGA.PRNAcceptable Range: 80% - 120%Standard Source: UltraStandard ID: 0087-147-8

Element	WL/ Mass	True Conc	ICV5-1 3/16/01 9:11 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.59	103.6								

678 654

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPUnits: ug/LChart Number: J10319A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-119-4

Element	WL/ Mass	True Conc	ICV2-1 3/19/01 11:21 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	25000.0	25027.56	100.1								
Barium	493.409	1000.0	968.24	96.8								
Beryllium	313.042	1000.0	957.47	95.7								
Calcium	317.933	25000.0	24760.08	99.0								
Cobalt	228.616	1000.0	983.46	98.3								
Copper	324.754	1000.0	967.57	96.8								
Iron	259.94	25000.0	25810.72	103.2								
Magnesium	279.079	25000.0	25082.18	100.3								
Manganese	257.61	1000.0	983.76	98.4								
Nickel	231.604	1000.0	969.84	97.0								
Potassium	766.491	25000.0	24638.00	98.6								
Sodium	588.995	25000.0	24945.09	99.8								
Vanadium	292.402	1000.0	981.97	98.2								
Zinc	213.856	1000.0	985.03	98.5								

Initial Calibration Verification Standard

Instrument: ICPUnits: ug/LChart Number: J10320A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-119-4

Element	WL/ Mass	True Conc	ICV2-1 3/20/01 12:06 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Sodium	588.995	25000.0	24601.24	98.4								

678 656

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPSTUnits: ug/LChart Number: T10320A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-116-5

Element	WL/ Mass	True Conc	ICV3-1 3/20/01 10.06 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	250.0	259.51	103.8								
Arsenic	189.042	250.0	257.93	103.2								
Cadmium	226.502	250.0	253.61	101.4								
Chromium	267.716	1000.0	1024.65	102.5								
Lead	220.353	250.0	254.58	101.8								
Selenium	220.353	250.0	260.80	104.3								
Silver	328.068	500.0	509.03	101.8								
Thallium	190.864	500.0	524.91	105.0								

Continuing Calibration Verification

Instrument: CVAAUnits: ug/LChart Number: 0316HGA.PRNAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0087-147-9

Element	WL/ Mass	True Conc	CCV5-1 3/16/01 9:15 AM		CCV5-2 3/16/01 9:33 AM		CCV5-3 3/16/01 9:52 AM		CCV5-4 3/16/01 10:12 AM		CCV5-5 3/16/01 10:30 AM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.17	103.4	5.22	104.4	5.08	101.6	5.11	102.2	5.17	103.4

678 658

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAAUnits: ug/LChart Number: 0316HGA.PRNAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0087-147-9

			CCV5-6 3/16/01 10:44 AM							
Element	WL/ Mass	True Conc	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.13	102.6						

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPUnits: ug/LChart Number: J10319A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-121-12

Element	WL/ Mass	True Conc	CCV2-1 3/19/01 12:00 PM		CCV2-2 3/19/01 12:38 PM		CCV2-3 3/19/01 1:16 PM		CCV2-4 3/19/01 1:54 PM		CCV2-5 3/19/01 2:32 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	50000.0	49127.92	98.3	48680.92	97.4	49627.16	99.3	49409.16	98.8	51377.88	102.8
Barium	493.409	5000.0	4738.94	94.8	4682.96	93.7	4811.96	96.2	4796.09	95.9	5083.68	101.7
Beryllium	313.042	5000.0	4764.10	95.3	4730.49	94.6	4819.33	96.4	4783.09	95.7	4993.57	99.9
Calcium	317.933	50000.0	49474.73	98.9	49756.77	99.5	49757.43	99.5	49412.32	98.8	48750.10	97.5
Cobalt	228.616	5000.0	4810.69	96.2	4812.68	96.3	4844.53	96.9	4810.10	96.2	4843.57	96.9
Copper	324.754	5000.0	4744.10	94.9	4675.07	93.5	4796.48	95.9	4767.70	95.4	5085.37	101.7
Iron	259.94	50000.0	50529.15	101.1	50364.52	100.7	50922.29	101.8	50544.08	101.1	51428.21	102.9
Magnesium	279.079	50000.0	49342.86	98.7	48881.18	97.8	49727.82	99.5	49481.10	99.0	51476.65	103.0
Manganese	257.61	5000.0	4788.83	95.8	4778.31	95.6	4809.13	96.2	4777.32	95.5	4821.00	96.4
Nickel	231.604	5000.0	4816.05	96.3	4809.43	96.2	4877.50	97.5	4823.23	96.5	4892.62	97.9
Potassium	766.491	50000.0	49022.15	98.0	48498.20	97.0	49649.68	99.3	49312.56	98.6	52817.77	105.6
Sodium	588.995	50000.0	49186.80	98.4	48288.51	96.6	49778.71	99.6	49065.09	98.1	53060.43	106.1
Vanadium	292.402	5000.0	4785.92	95.7	4760.13	95.2	4814.75	96.3	4768.58	95.4	4861.04	97.2
Zinc	213.856	5000.0	4870.31	97.4	4851.41	97.0	4879.31	97.6	4827.68	96.6	4867.02	97.3

678 669

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPUnits: ug/LChart Number: J10319A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-121-12

Element	WL/ Mass	True Conc	CCV2-6 3/19/01 3:09 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	50000.0	50198.99	100.4								
Barium	493.409	5000.0	4920.89	98.4								
Beryllium	313.042	5000.0	4892.64	97.9								
Calcium	317.933	50000.0	49458.72	98.9								
Cobalt	228.616	5000.0	4840.91	96.8								
Copper	324.754	5000.0	4890.28	97.8								
Iron	259.94	50000.0	51073.26	102.1								
Magnesium	279.079	50000.0	50341.63	100.7								
Manganese	257.61	5000.0	4810.69	96.2								
Nickel	231.604	5000.0	4901.28	98.0								
Potassium	766.491	50000.0	50417.33	100.8								
Sodium	588.995	50000.0	50688.75	101.4								
Vanadium	292.402	5000.0	4811.24	96.2								
Zinc	213.856	5000.0	4854.86	97.1								

Continuing Calibration Verification

Instrument: ICPUnits: ug/LChart Number: J10320A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-121-12

Element	WL/ Mass	True Conc	CCV2-1 3/20/01 12:51 PM		CCV2-2 3/20/01 1:29 PM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Sodium	588.995	50000.0	48871.49	97.7	45606.37	91.2				

678 662

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T10320A.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0087-118-1

Element	WL/ Mass	True Conc	CCV3-1 3/20/01 10 59 AM		CCV3-2 3/20/01 11:52 AM		CCV3-3 3/20/01 12:45 PM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	500.0	511.82	102.4	512.13	102.4	513.64	102.7				
Arsenic	189.042	500.0	512.59	102.5	513.00	102.6	514.70	102.9				
Cadmium	226.502	500.0	491.94	98.4	495.55	99.1	495.73	99.1				
Chromium	267.716	2000.0	2027.53	101.4	2038.33	101.9	2036.36	101.8				
Lead	220.353	500.0	502.71	100.5	504.98	101.0	507.46	101.5				
Selenium	220.353	500.0	520.38	104.1	524.75	105.0	522.90	104.6				
Silver	328.068	1000.0	1024.53	102.5	1023.72	102.4	1020.56	102.1				
Thallium	190.864	1000.0	1017.06	101.7	1030.60	103.1	1040.44	104.0				

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXGMH Client ID: DF/24-B/1073/IDW/003
Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075092
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.054	0.20	0.12	B	1	CVAA	3/16/01	10:39

Comments. Lot #: C1C150304 Sample #: 1

Version 4.10.2

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

Form 1 Equivalent

678 664

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DXGMH Client ID: DF/24-B/1073/IDW/003
 Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131
 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	2580	N	1	ICP	3/19/01	14:57
Antimony	220.35	1.5	60.0	7.8	B	1	ICPST	3/20/01	11:43
Arsenic	189.04	2.6	10.0	6.9	B	1	ICPST	3/20/01	11:43
Barium	493.41	0.41	200	82.4	B	1	ICP	3/19/01	14:57
Beryllium	313.04	0.071	5.0	0.18	B	1	ICP	3/19/01	14:57
Cadmium	226.50	0.49	5.0	0.49	U	1	ICPST	3/20/01	11:43
Calcium	317.93	37.9	5000	37400		1	ICP	3/19/01	14:57
Chromium	267.72	1.0	10.0	29.6		1	ICPST	3/20/01	11:43
Cobalt	228.62	3.2	50.0	4.1	B	1	ICP	3/19/01	14:57
Copper	324.75	2.2	25.0	23.7	B	1	ICP	3/19/01	14:57
Iron	259.94	8.8	100	2790	E	1	ICP	3/19/01	14:57
Lead	220.35	1.9	3.0	6.8		1	ICPST	3/20/01	11:43
Magnesium	279.08	19.9	5000	6020		1	ICP	3/19/01	14:57
Manganese	257.61	0.87	15.0	196		1	ICP	3/19/01	14:57
Nickel	231.60	6.1	40.0	8.3	B	1	ICP	3/19/01	14:57
Potassium	766.49	496	5000	4840	B	1	ICP	3/19/01	14:57
Selenium	220.35	2.1	5.0	2.4	B	1	ICPST	3/20/01	11:43
Silver	328.07	0.94	10.0	0.94	U	1	ICPST	3/20/01	11:43
Sodium	589	72.5	25000	766000		5	ICP	3/20/01	13:10
Thallium	190.86	3.9	10.0	3.9	U	1	ICPST	3/20/01	11:43
Vanadium	292.40	1.8	50.0	7.5	B	1	ICP	3/19/01	14:57
Zinc	213.86	3.1	20.0	75.4		1	ICP	3/19/01	14:57

Comments: Lot #: C1C150304 Sample #: 1

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form I Equivalent

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0316HGA.PRN

Standard Source: _____

Standard ID: _____

			ICBI 3/16/01 9:13 AM				
Element	WL/ Mass	Report Limit	Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	0.2	0.1 U				

678 666

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10319A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 3/19/01 11:24 AM		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	39.0	B										
Cobalt	228.616	50	3.2	U										
Copper	324.754	25	2.2	U										
Iron	259.94	100	13.0	B										
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	30.1	B										
Vanadium	292.402	50	2.9	B										
Zinc	213.856	20	3.8	B										

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10320A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 3/20/01 12:09 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Sodium	588.995	5000	14.5	U						

678 663

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10320A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICBI 3/20/01 10:11 AM							
			Found	Q	Found	Q	Found	Q	Found	Q
Antimony	220.353	60	2.3	B						
Arsenic	189.042	10	2.6	U						
Cadmium	226.502	5	0.5	U						
Chromium	267.716	10	1.0	U						
Lead	220.353	3	1.9	U						
Selenium	220.353	5	3.7	B						
Silver	328.068	10	0.9	U						
Thallium	190.864	10	3.9	U						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0316HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/16/01 9:16 AM	CCB2 3/16/01 9:34 AM	CCB3 3/16/01 9:54 AM	CCB4 3/16/01 10:14 AM	CCB5 3/16/01 10:32 AM
			Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	0.2	0.1 U	0.1 B	0.1 U	0.1 U	0.1 U

678 679

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0316HGA.PRN

Standard Source: _____

Standard ID: _____

			CCB6 3/16/01 10:46 AM				
Element	WL/ Mass	Report Limit	Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	0.2	-0.1 B				

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10319A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/19/01 12:03 PM	CCB2 3/19/01 12:41 PM	CCB3 3/19/01 1:19 PM	CCB4 3/19/01 1:57 PM	CCB5 3/19/01 2:35 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Aluminum	308.215	200	12.7 U	12.7 U	12.7 U	12.7 U	17.7 B
Barium	493.409	200	0.4 U	0.4 U	0.4 U	0.4 U	0.5 B
Beryllium	313.042	5	0.1 B	0.2 B	0.1 B	0.2 B	0.8 B
Calcium	317.933	5000	37.9 U	37.9 U	37.9 U	37.9 U	37.9 U
Cobalt	228.616	50	3.2 U	3.2 U	4.2 B	3.2 U	3.2 U
Copper	324.754	25	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Iron	259.94	100	8.8 U	8.8 U	20.7 B	8.8 U	8.8 U
Magnesium	279.079	5000	19.9 U	19.9 U	19.9 U	19.9 U	19.9 U
Manganese	257.61	15	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Nickel	231.604	40	6.1 U	6.1 U	-6.5 B	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	14.5 U	17.4 B
Vanadium	292.402	50	1.8 B	1.8 U	1.8 U	1.8 U	1.8 B
Zinc	213.856	20	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U

678 672

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10319A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB6 3/19/01 3:13 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	0.5	B										
Calcium	317.933	5000	37.9	U										
Cobalt	228.616	50	3.2	U										
Copper	324.754	25	2.2	U										
Iron	259.94	100	8.8	U										
Magnesium	279.079	5000	19.9	U										
Manganese	257.61	15	0.9	U										
Nickel	231.604	40	-8.2	B										
Potassium	766.491	5000	496.0	U										
Sodium	588.995	5000	27.9	B										
Vanadium	292.402	50	1.8	U										
Zinc	213.856	20	3.1	U										

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J10320A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/20/01 12:54 PM	CCB2 3/20/01 1:32 PM			
			Found Q	Found Q	Found Q	Found Q	Found Q
Sodium	588.995	5000	36.6 B	53.4 B			

678 674

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T10320A.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 3/20/01 11:04 AM		CCB2 3/20/01 11:57 AM		CCB3 3/20/01 12:50 PM		Found	Q
			Found	Q	Found	Q	Found	Q		
Antimony	220.353	60	1.5	U	1.5	U	1.5	U		
Arsenic	189.042	10	2.6	U	2.6	U	2.6	U		
Cadmium	226.502	5	0.5	U	0.5	U	0.5	U		
Chromium	267.716	10	1.0	U	1.0	U	1.0	U		
Lead	220.353	3	1.9	U	1.9	U	1.9	U		
Selenium	220.353	5	2.1	B	2.1	U	2.1	U		
Silver	328.068	10	0.9	U	0.9	U	0.9	U		
Thallium	190.864	10	5.8	B	5.4	B	6.1	B		

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXG2XBMatrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075092Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.054	0.20	-0.067	B	1	CVAA	3/16/01	10:35

Comments: Lot #: C1C150304

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

678 676

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DXG4QBMatrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131Weight: 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	14.4	B	1	ICP	3/19/01	14:51
Antimony	220.353	1.5	60.0	1.7	B	1	ICPST	3/20/01	11:35
Arsenic	189.042	2.6	10.0	2.6	U	1	ICPST	3/20/01	11:35
Barium	493.409	0.41	200	0.41	U	1	ICP	3/19/01	14:51
Beryllium	313.042	0.071	5.0	0.080	B	1	ICP	3/19/01	14:51
Cadmium	226.502	0.49	5.0	0.49	U	1	ICPST	3/20/01	11:35
Calcium	317.933	37.9	5000	52.7	B	1	ICP	3/19/01	14:51
Chromium	267.716	1.0	10.0	1.5	B	1	ICPST	3/20/01	11:35
Cobalt	228.616	3.2	50.0	3.2	U	1	ICP	3/19/01	14:51
Copper	324.754	2.2	25.0	2.2	U	1	ICP	3/19/01	14:51
Iron	259.94	8.8	100	23.9	B	1	ICP	3/19/01	14:51
Lead	220.353	1.9	3.0	1.9	U	1	ICPST	3/20/01	11:35
Magnesium	279.079	19.9	5000	19.9	U	1	ICP	3/19/01	14:51
Manganese	257.61	0.87	15.0	0.87	U	1	ICP	3/19/01	14:51
Nickel	231.604	6.1	40.0	6.1	U	1	ICP	3/19/01	14:51
Potassium	766.491	496	5000	569	B	1	ICP	3/19/01	14:51
Selenium	220.353	2.1	5.0	2.1	U	1	ICPST	3/20/01	11:35
Silver	328.068	0.94	10.0	0.94	U	1	ICPST	3/20/01	11:35
Sodium	588.995	14.5	5000	121	B	1	ICP	3/19/01	14:51
Thallium	190.864	3.9	10.0	3.9	U	1	ICPST	3/20/01	11:35
Vanadium	292.402	1.8	50.0	1.8	U	1	ICP	3/19/01	14:51
Zinc	213.856	3.1	20.0	3.1	U	1	ICP	3/19/01	14:51

Comments: Lot #: C1C150304

Version 4.10.2

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

Form 3 Equivalent

Interference Check Standard A

Instrument: ICPUnits: ug/LChart Number: J10319A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0087-133-5

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/19/01 11:27 AM	Found	Found	Found	Found	Found
				Found					
Aluminum	308.215		500000	510000					
Barium	493.409	200		2					
Beryllium	313.042	5		0					
Calcium	317.933		500000	488000					
Cobalt	228.616	50		14					
Copper	324.754	25		1					
Iron	259.94		200000	187000					
Magnesium	279.079		500000	494000					
Manganese	257.61	15		1					
Nickel	231.604	40		-22					
Potassium	766.491	5000		195					
Sodium	588.995	5000		15					
Vanadium	292.402	50		2					
Zinc	213.856	20		4					

678 678

STL-Pittsburgh
Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPUnits: ug/LChart Number: J10320A.ARCAcceptable Range: 0% - 0%Standard Source: Inorganic VenturesStandard ID: 0087-133-5

				ICSA 3/20/01 12:12 PM				
Element	WL/ Mass	Reporting Limit	True Conc	Found	Found	Found	Found	Found
Sodium	588.995	5000		2				

Interference Check Standard A :

Instrument: ICPSTUnits: ug/LChart Number: T10320A.ARCAcceptable Range: 0% - 0%Standard Source: Inorganic VenturesStandard ID: 0087-133-5

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 3/20/01 10:15 AM	Found	Found	Found	Found
				Found				
Antimony	220.353	60		2				
Arsenic	189.042	10		6				
Cadmium	226.502	5		1				
Chromium	267.716	10		4				
Lead	220.353	3		5				
Selenium	220.353	5		2				
Silver	328.068	10		0				
Thallium	190.864	10		-13				

678 680

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPUnits: ug/LChart Number: J10319A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0087-133-6

Element	WL/ Mass	True Conc	ICSAB 3/19/01 11:30 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	308.215	500000	504201.6	100.8								
Barium	493.409	500	468.3	93.7								
Beryllium	313.042	500	458.8	91.8								
Calcium	317.933	500000	482452.3	96.5								
Cobalt	228.616	500	467.4	93.5								
Copper	324.754	500	495.8	99.2								
Iron	259.94	200000	185351.9	92.7								
Magnesium	279.079	500000	486851.4	97.4								
Manganese	257.61	500	456.3	91.3								
Nickel	231.604	1000	876.6	87.7								
Potassium	766.491	10000	10306.5	103.1								
Sodium	588.995	10000	10325.4	103.3								
Vanadium	292.402	500	468.8	93.8								
Zinc	213.856	1000	959.6	96.0								

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPUnits: ug/LChart Number: J10320A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0087133-6

Element	WL/ Mass	True Conc	ICSAB 3/20/01 12:16 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Sodium	588.995	10000	9772.9	97.7								

678 682

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPSTUnits: ug/LChart Number: T10320A.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0087-081-6

Element	WL/ Mass	True Conc	ICSAB 3/20/01 10:20 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Antimony	220.353	1000	1058.7	105.9								
Arsenic	189.042	1000	1044.7	104.5								
Cadmium	226.502	1000	950.5	95.1								
Chromium	267.716	500	523.9	104.8								
Lead	220.353	1000	1013.5	101.3								
Selenium	220.353	1000	1056.7	105.7								
Silver	328.068	1000	1125.9	112.6								
Thallium	190.864	1000	1013.0	101.3								

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: DXGMHS

Original Sample ID: DXGMH Client ID: DF/24-B/1073/IDW/003S

Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075092

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	0.12	B	1.2		1	109.4	1	1	CVAA	3/16/01	10:39	3/16/01	10:41

Comments: Lot #: C1C150304 Sample #: 1

Version 4.10.2

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

678 684

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DXGMHD

Original Sample ID: DXGMH Client ID: DF/24-B/1073/IDW/003SD

Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075092

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	0.12	B	1.2		1	112.4	1	1	CVAA	3/16/01	10:39	3/16/01	10:42

Comments: Lot # C1C150304 Sample #: 1

Version 4.10.2

- 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 Sample Results

Spike Sample ID: DXGMHS
 Original Sample ID: DXGMH Client ID: DF/24-B/1073/IDW/003S
 Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131
 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	2580		5140	N	2000	128.4	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Antimony	220.4	7.8	B	501		500	98.5	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Arsenic	189.0	6.9	B	1960		2000	97.5	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Barium	493.4	82.4	B	1880		2000	89.8	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Beryllium	313.0	0.18	B	45.3		50	90.2	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Cadmium	226.5	0.49	U	45.3		50	90.6	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Calcium	317.9	37400		83300		50000	91.8	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Chromium	267.7	29.6		228		200	99.1	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Cobalt	228.6	4.1	B	451		500	89.3	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Copper	324.8	23.7	B	256		250	92.9	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Iron	259.9	2790		3710		1000	92.3	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Lead	220.4	6.8		483		500	95.2	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Magnesium	279.1	6020		52700		50000	93.3	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Manganese	257.6	196		634		500	87.7	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Nickel	231.6	8.3	B	468		500	92.0	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Potassium	766.5	4840	B	54700		50000	99.7	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Selenium	220.4	2.4	B	1970		2000	98.4	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Silver	328.1	0.94	U	51.7		50	103.4	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Sodium	589	766000		793000	NC	50000		5	5	ICP	3/20/01	13:10	3/20/01	13:16
Thallium	190.9	3.9	U	2040		2000	102.1	1	1	ICPST	3/20/01	11:43	3/20/01	12:01
Vanadium	292.4	7.5	B	459		500	90.3	1	1	ICP	3/19/01	14:57	3/19/01	15:03
Zinc	213.9	75.4		534		500	91.7	1	1	ICP	3/19/01	14:57	3/19/01	15:03

Comments: Lot #: C1C150304 Sample #: 1

Version 4.10.2

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 SA Equivalent

673 686

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: DXGMHD

Original Sample ID: DXGMH Client ID: DF/24-B/1073/IDW/003SD

Matrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131

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	2580	N	5370	N	2000	139.5	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Antimony	220.4	7.8	B	501		500	98.6	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Arsenic	189.0	6.9	B	1980		2000	98.8	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Barium	493.4	82.4	B	1870		2000	89.5	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Beryllium	313.0	0.18	B	45.3		50	90.1	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Cadmium	226.5	0.49	U	45.4		50	90.8	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Calcium	317.9	37400		84600		50000	94.3	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Chromium	267.7	29.6		231		200	100.8	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Cobalt	228.6	4.1	B	452		500	89.6	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Copper	324.8	23.7	B	257		250	93.3	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Iron	259.9	2790		3800		1000	101.4	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Lead	220.4	6.8		488		500	96.2	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Magnesium	279.1	6020		52800		50000	93.6	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Manganese	257.6	196		645		500	89.9	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Nickel	231.6	8.3	B	469		500	92.2	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Potassium	766.5	4840	B	54700		50000	99.7	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Selenium	220.4	2.4	B	1990		2000	99.2	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Silver	328.1	0.94	U	51.5		50	102.9	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Sodium	589	766000		797000	NC	50000		5	5	ICP	3/20/01	13:10	3/20/01	13:19
Thallium	190.9	3.9	U	2070		2000	103.4	1	1	ICPST	3/20/01	11:43	3/20/01	12:05
Vanadium	292.4	7.5	B	461		500	90.7	1	1	ICP	3/19/01	14:57	3/19/01	15:06
Zinc	213.9	75.4		537		500	92.3	1	1	ICP	3/19/01	14:57	3/19/01	15:06

Comments: Lot #: C1C150304 Sample #: 1

Version 4.10.2

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: DXGMHDMatrix Spike Sample ID: DXGMHS Client ID: DF/24-B/1073/IDW/003SDMatrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075092Weight: 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	1.2		1.2		2.7 %	1	1	CVAA	3/16/01	10:41	3/16/01	10:42

Comments: Lot #: C1C150304 Sample #: 1

Version 4.10.2

- 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 6 Equivalent

673 688

STL-Pittsburgh

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: DXGMHDMatrix Spike Sample ID: DXGMHS Client ID: DF/24-B/1073/IDW/003SDMatrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131Weight: 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	5140	N	5370	N	8.3 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Antimony	220.353	501		501		0.1 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Arsenic	189.042	1960		1980		1.3 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Barium	493.409	1880		1870		0.3 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Beryllium	313.042	45.3		45.3		0.0 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Cadmium	226.502	45.3		45.4		0.2 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Calcium	317.933	83300		84600		2.7 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Chromium	267.716	228		231		1.7 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Cobalt	228.616	451		452		0.3 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Copper	324.754	256		257		0.5 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Iron	259.94	3710		3800		9.5 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Lead	220.353	483		488		1.1 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Magnesium	279.079	52700		52800		0.3 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Manganese	257.61	634		645		2.5 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Nickel	231.604	468		469		0.2 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Potassium	766.491	54700		54700		0.1 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Selenium	220.353	1970		1990		0.9 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Silver	328.068	51.7		51.5		0.5 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Sodium	588.995	793000	NC	797000	NC		5	5	ICP	3/20/01	13:16	3/20/01	13:19
Thallium	190.864	2040		2070		1.3 %	1	1	ICPST	3/20/01	12:01	3/20/01	12:05
Vanadium	292.402	459		461		0.5 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06
Zinc	213.856	534		537		0.6 %	1	1	ICP	3/19/01	15:03	3/19/01	15:06

Comments: Lot #. C1C150304 Sample #: 1

Version 4.10.2

- 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 6 Equivalent

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXG2XCMatrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075092Weight: 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	99.6		80-120	1	CVAA	3/16/01	10:37

Comments: Lot #: C1C150304

Version 4.10.2

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

Form 7 Equivalent

678 690

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DXG4QCMatrix: Water Units: ug/L Prep Date: 3/16/01 Prep Batch: 1075131Weight: 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	1910	95.2		80-120	1	ICP	3/19/01	14:54
Antimony	220.353	500	491	98.2		80-120	1	ICPST	3/20/01	11:39
Arsenic	189.042	2000	1950	97.7		80-120	1	ICPST	3/20/01	11:39
Barium	493.409	2000	1890	94.6		80-120	1	ICP	3/19/01	14:54
Beryllium	313.042	50.0	46.5	92.9		80-120	1	ICP	3/19/01	14:54
Cadmium	226.502	50.0	46.6	93.3		80-120	1	ICPST	3/20/01	11:39
Calcium	317.933	50000	47800	95.7		80-120	1	ICP	3/19/01	14:54
Chromium	267.716	200	201	100.3		80-120	1	ICPST	3/20/01	11:39
Cobalt	228.616	500	466	93.2		80-120	1	ICP	3/19/01	14:54
Copper	324.754	250	238	95.3		80-120	1	ICP	3/19/01	14:54
Iron	259.94	1000	1010	100.9		80-120	1	ICP	3/19/01	14:54
Lead	220.353	500	488	97.5		80-120	1	ICPST	3/20/01	11:39
Magnesium	279.079	50000	48800	97.6		80-120	1	ICP	3/19/01	14:54
Manganese	257.61	500	463	92.7		80-120	1	ICP	3/19/01	14:54
Nickel	231.604	500	464	92.8		80-120	1	ICP	3/19/01	14:54
Potassium	766.491	50000	48600	97.2		80-120	1	ICP	3/19/01	14:54
Selenium	220.353	2000	1960	98.2		80-120	1	ICPST	3/20/01	11:39
Silver	328.068	50.0	50.2	100.4		80-120	1	ICPST	3/20/01	11:39
Sodium	588.995	50000	49100	98.1		80-120	1	ICP	3/19/01	14:54
Thallium	190.864	2000	2040	101.7		80-120	1	ICPST	3/20/01	11:39
Vanadium	292.402	500	466	93.3		80-120	1	ICP	3/19/01	14:54
Zinc	213.856	500	464	92.8		80-120	1	ICP	3/19/01	14:54

Comments: Lot #. C1C150304

Version 4.10.2

U Result is less than the MDL

Form 7 Equivalent

B Result is between MDL and RL

STL-Pittsburgh
Metals Data Reporting Form

678 691

Serial Dilution RPD Report

Serial Dilution Sample ID: DXGMHP

Original Sample ID: DXGMH **Client ID:** DF/24-B/1073/IDW/003

Matrix: Water **Units:** ug/L **Prep Date:** 3/16/01 **Prep Batch:** 1075131

Weight: 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	2580	N	2540		1.5 %	1	5	ICP	3/19/01	14:57	3/19/01	15:00
Antimony	220.353	7.8	B	13.3	B		1	5	ICPST	3/20/01	11:43	3/20/01	11:48
Arsenic	189.042	6.9	B	12.8	U		1	5	ICPST	3/20/01	11:43	3/20/01	11:48
Barium	493.409	82.4	B	83.9	B	1.8 %	1	5	ICP	3/19/01	14:57	3/19/01	15:00
Beryllium	313.042	0.18	B	0.36	U		1	5	ICP	3/19/01	14:57	3/19/01	15:00
Cadmium	226.502	0.49	U	2.5	U		1	5	ICPST	3/20/01	11:43	3/20/01	11:48
Calcium	317.933	37400		38000		1.4 %	1	5	ICP	3/19/01	14:57	3/19/01	15:00
Chromium	267.716	29.6		32.0	B		1	5	ICPST	3/20/01	11:43	3/20/01	11:48
Cobalt	228.616	4.1	B	16.1	U		1	5	ICP	3/19/01	14:57	3/19/01	15:00
Copper	324.754	23.7	B	24.9	B		1	5	ICP	3/19/01	14:57	3/19/01	15:00
Iron	259.94	2790		3180	E	14.1 %	1	5	ICP	3/19/01	14:57	3/19/01	15:00
Lead	220.353	6.8		9.5	U		1	5	ICPST	3/20/01	11:43	3/20/01	11:48
Magnesium	279.079	6020		6250	B	3.7 %	1	5	ICP	3/19/01	14:57	3/19/01	15:00
Manganese	257.61	196		205		5.0 %	1	5	ICP	3/19/01	14:57	3/19/01	15:00
Nickel	231.604	8.3	B	30.7	U		1	5	ICP	3/19/01	14:57	3/19/01	15:00
Potassium	766.491	4840	B	5150	B		1	5	ICP	3/19/01	14:57	3/19/01	15:00
Selenium	220.353	2.4	B	10.5	U		1	5	ICPST	3/20/01	11:43	3/20/01	11:48
Silver	328.068	0.94	U	4.7	U		1	5	ICPST	3/20/01	11:43	3/20/01	11:48
Sodium	588.995	766000		785000		2.5 %	5	25	ICP	3/20/01	13:10	3/20/01	13:13
Thallium	190.864	3.9	U	21.1	B		1	5	ICPST	3/20/01	11:43	3/20/01	11:48
Vanadium	292.402	7.5	B	8.9	U		1	5	ICP	3/19/01	14:57	3/19/01	15:00
Zinc	213.856	75.4		72.7	B		1	5	ICP	3/19/01	14:57	3/19/01	15:00

Comments: _____

Version 4.10.2

U Result is less than the MDL
B Result is between MDL and RL
E Serial dilution percent difference not within limits

Form 9 Equivalent

678 692

STL-Pittsburgh

Metals Data Reporting Form

Instrument Detection LimitsInstrument: CVAAUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Mercury	253.70	0.2	0.054	1/24/01

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
Zinc	213.86	20	3.1	4/1/00

678 694

STL-Pittsburgh
Metals Data Reporting FormInstrument 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

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICP

Date of IEC's: 3/2/01

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	As(0.008569), Mn(0.000025), Pb(0.000632)
Antimony	206.838	Ni(-0.000354), Pb(-0.001557), Sn(-0.00417)
Arsenic	193.696	Cd(0.007291)
Barium	493.409	Co(0.000631)
Beryllium	313.042	Cd(0.00808)
Cadmium	228.802	Co(0.002654)
Chromium	267.716	Pb(-0.000925), Sb(0.008569), V(-0.002108)
Cobalt	228.616	Al(-0.004453), B(0.00232), Cd(-0.004299), Cu(-0.000959), Pb(-0.029108), Sb(-0.003991), Tl(0.008744)
Copper	324.754	Zn(0.004381)
Iron	259.94	Ag(-0.000227), As(0.00109), B(-0.002012), Cd(-0.000044), Cu(-0.000109), Mn(-0.000266), Mo(-0.000131), Pb(0.000343), Se(-0.003143), Sn(-0.0001176), Tl(0.015465), Zn(0.000077)
Manganese	257.61	Ag(0.000172), Tl(-0.005376)
Molybdenum	202.03	Al(0.012081), Cr(-0.000336), Mn(-0.000311), Sb(0.006459), V(-0.025228)
Nickel	231.604	Cd(-0.000465), Sb(-0.09347), Zn(0.003201)
Tin	189.989	Sb(0.001907)
Titanium	334.941	Co(0.001649), Fe(-0.003351), Sb(0.001736), Sn(0.003716)
Vanadium	292.402	Ag(-0.005641), Al(0.012439), As(0.016935), Be(0.003088), Cd(0.000028), Cr(0.000571), Sb(-0.004188), Si(-0.010896), Tl(0.00749), Zn(-0.004465)

678 696

STL-Pittsburgh

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICPST

Date of IEC's: 3/17/01

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Pb(0.000538)
Aluminum	308.215	Pb(-0.000164)
Chromium	267.716	Sb(0.007746)
Chromium	267.716	As(-0.003263), Sb(0.011738)
Cobalt	228.616	Pb(0.000059), Se(-0.000447)
Cobalt	228.616	Cd(-0.000069), Fe(0.077605), Ni(-0.000653), Pb(-0.000629), Se(0.000487), Tl(0.002611)
Iron	271.441	Cd(0.000139), Cr(-0.000012), Pb(0.00009), Sb(0.000027), Se(-0.00001), Tl(0.00005), V(-0.000292), Zn(0.000124)
Iron	271.441	Pb(0.000051), Sb(0.000027), Se(-0.000348)
Magnesium	279.078	Fe(-0.000963)
Manganese	257.61	Se(0.000699), Tl(-0.005546)
Molybdenum	202.03	Pb(-0.000591), Sb(-0.010418)
Molybdenum	202.03	As(-0.000795), Pb(-0.00066), Sb(-0.001544), Tl(-0.00059)
Nickel	231.604	Pb(0.00023), Sb(-0.001264), Zn(0.005138)
Nickel	231.604	Pb(0.000138)
Vanadium	292.402	Al(0.028301), Be(-0.006016), Cr(-0.000177), Fe(0.013199), Pb(-0.000165), Sb(-0.007795), Se(0.000336), Tl(0.001875)
Vanadium	292.402	Pb(-0.000249), Se(0.000106)

Metals Data Reporting Form

Linear Dynamic RangesInstrument: CVAAUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Mercury	253.70	10	1/24/01

678 698

STL-Pittsburgh
Metals Data Reporting FormLinear Dynamic Ranges

Instrument: ICPUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	308.21	600000	1/15/01
Barium	493.41	100000	1/15/01
Beryllium	313.04	15000	1/15/01
Calcium	317.93	600000	1/15/01
Cobalt	228.62	100000	1/15/01
Copper	324.75	100000	1/15/01
Iron	259.94	400000	1/15/01
Magnesium	279.08	600000	1/15/01
Manganese	257.61	100000	1/15/01
Nickel	231.60	100000	1/15/01
Potassium	766.49	1000000	1/15/01
Sodium	589.00	400000	1/15/01
Vanadium	292.40	100000	1/15/01
Zinc	213.86	100000	1/15/01

FINAL PAGE

PART I

ADMINISTRATIVE RECORD

PART I

FINAL PAGE