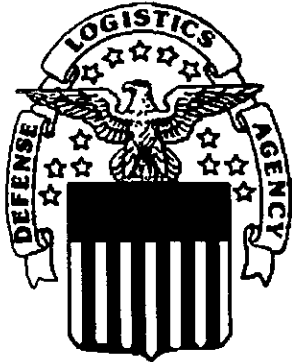


672 752B

File: 541.460.000n
C.H.



THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

AR File Number 672

Part II of II

**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

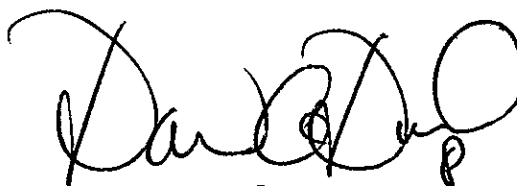
Dunn Field, Def Depot Memphis

Lot #: C0I220208

Frank Johnson

Memphis Depot

SEVERN TRENT LABORATORIES, INC.



Dave Dunlap
Project Manager

September 29, 2000

CASE NARRATIVE
UXB International Inc.
Dunn Field

LOT # C0I220208

Sample Receiving:

STL Pittsburgh received samples on September 22, 2000 in good condition and within the proper temperature range.

Volatiles:

There were no problems associated with the analysis.

Semivolatiles:

There were no problems associated with the analysis.

Pesticides:

For the continuing calibration standards analyzed on the DB608 column on September 29, 2000 at 11:04 and 11:32 the %D for methoxychlor was not within the +/-15%D criteria. The average of all of the compounds in the continuing calibration standards was 4.2%D. As methoxychlor was not detected in any of the samples, all data was reported.

For the continuing calibration standards analyzed on the DB608 column on September 29, 2000 at 15:14 and 15:42 the %D for methoxychlor was not within the +/-15%D criteria. The average of all of the compounds in the continuing calibration standards was 5.3%D. As methoxychlor was not detected in any of the samples, all data was reported.

The form 8 does not reflect that the retention times for the surrogates were updated from the continuing calibration standards.

Herbicides:

There were no problems associated with the analysis.

Total Metals:

There were no problems associated with the analysis.

TCLP Metals:

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

General Chemistry:

The reactive cyanide and reactive sulfide analyses were completed at the STL North Canton, OH laboratory.

There were no problems associated with the analyses.

METHODS SUMMARY

C0I220208

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Chlorinated Herbicides by GC	SW846 8151A	SW846 1311/8150
Ignitability	SW846 SECTION 7	SW846 SECTION 7
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 1311/3010
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 1311/7470
Organochlorine Pesticides	SW846 8081A	SW846 1311/3510
Reactive Cyanide	SW846 7.3.3	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4	SW846 7.3.4
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 1311/3520
Soil and Waste pH	SW846 9045C	SW846 9045C
Total Residue as Percent Solids	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Volatile Organics by GC/MS	SW846 8260B	SW846 1311/5030

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.

672 756

SAMPLE SUMMARY

C0I220208

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
DKVJW	001	DF/24-A/0265/SDC/001	09/21/00	13:45
DKVK3	002	DF/24-A/0265/SDC/002	09/21/00	13:45
DKVK4	003	DF/24-A/0265/SDC/003	09/21/00	13:45

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.

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



Special Instructions

Comments	672 757

672 757

Cooler Receipt Form

STL Pittsburgh

Client: WVB Project: 9/22/05 Quote: _____
 Cooler Rec'd & Opened for Temp. Check on: 9/22/05
 Coolers Opened and Unpacked on: 9/22/05 By: [Signature]
 (Signature)
 STL Pittsburgh Lot Number: C01220208

	Yes	No
1. Were custody seals on the outside of the cooler? _____	☒	☐
If YES, how many and where? Quantity <u>1</u> Location <u>1st / 1st</u>		
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? <u>Bubble Pack</u>		
7. Were the samples chilled? (Record temperatures on reverse side.) _____	☒	☐
8. Were the samples appropriately preserved? _____	☒	☐
9. Were all bottles sealed in separate plastic bags? _____	☐	☒
10. Did all bottles arrive in good condition (unbroken)? _____	☒	☐
11. Were all bottle labels complete (sample ID, preservatives, etc.)? _____	☒	☐
12. Did all bottle labels and/or tags agree with custody papers? _____	☒	☐
13. Were correct bottles used for tests indicated? _____	☒	☐
14. Were all VOA vials checked for the presence of air bubbles? _____	☒	☐
15. Was a sufficient amount of sample sent in each bottle? _____	☒	☐
16. Samples received by: <u>FEDEX</u> UPS CLIENT DROP-OFF OTHER AIRBORNE		

Explain any discrepancies: _____

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

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

Comments: _____

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

FedEx USA Airbill 822525868517

1 From Date 9/21/00

Sender's Name Chris Rose

Company Severn Trent International

Address 6141 W. Waples Pike #300

City Memphis State TN ZIP 38119

2 Your Internal Billing Reference

3 To Recipient's Name Rusty Vincine

Company Severn Trent

Address 450 William Pitt Way

City Pittsburgh State PA ZIP 15238

4a Express Package Service

4b Express Freight Service

5 Packaging

6 Special Handling

7 Payment

8 Release Signature



360

DATA SUMMARY PACKAGE

672 762

GC/MS VOLATILE SUMMARY

UXB INTERNATIONAL

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

Matrix: (soil/water) SOLID Lab Sample ID: C0I220208 001

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

Sample WT/Vol: 5 / mL Date Received: 09/22/00

Work Order: DKVJW102 Date Extracted: 09/26/00

Dilution factor: 1 Date Analyzed: 09/26/00

Moisture %: 11

QC Batch: 0270159

Client Sample Id: DF/24-A/0265/SDC/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U

672 764

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DKVK3102

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: 27

QC Batch: 0270159

Client Sample Id: DF/24-A/0265/SDC/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DKVK4102

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: 15

QC Batch: 0270159

Client Sample Id: DF/24-A/0265/SDC/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U

672 766

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

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

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DKVK410L

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: 15

QC Batch: 0270159

Client Sample Id: DF/24-A/0265/SDC/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.461	
78-93-3	2-Butanone	0.226	
56-23-5	Carbon tetrachloride	0.537	
108-90-7	Chlorobenzene	0.452	
67-66-3	Chloroform	0.487	
107-06-2	1,2-Dichloroethane	0.453	
75-35-4	1,1-Dichloroethene	0.439	
127-18-4	Tetrachloroethene	0.599	
79-01-6	Trichloroethene	0.515	
75-01-4	Vinyl chloride	0.530	

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DKVK410M

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: 15

QC Batch: 0270159

Client Sample Id: DF/24-A/0265/SDC/003

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.449	
78-93-3	2-Butanone	0.229	
56-23-5	Carbon tetrachloride	0.498	
108-90-7	Chlorobenzene	0.446	
67-66-3	Chloroform	0.472	
107-06-2	1,2-Dichloroethane	0.438	
75-35-4	1,1-Dichloroethene	0.463	
127-18-4	Tetrachloroethene	0.574	
79-01-6	Trichloroethene	0.508	
75-01-4	Vinyl chloride	0.524	

672 768

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID

Lab Sample ID: C0I260000 159

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DL1RL101

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: NA

QC Batch: 0270159

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.446	
78-93-3	2-Butanone	0.207	
56-23-5	Carbon tetrachloride	0.511	
108-90-7	Chlorobenzene	0.441	
67-66-3	Chloroform	0.475	
107-06-2	1,2-Dichloroethane	0.435	
75-35-4	1,1-Dichloroethene	0.443	
127-18-4	Tetrachloroethene	0.559	
79-01-6	Trichloroethene	0.510	
75-01-4	Vinyl chloride	0.523	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0I220208

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	DF/24-A/0265/SDC/001	91	92	90	98	00
02	DF/24-A/0265/SDC/002	94	95	95	99	00
03	DF/24-A/0265/SDC/003	89	91	87	93	00
04	METHOD BLK. DL1N5101	93	92	93	98	00
05	LCS DL1RL101	86	97	91	96	00
06	DF/24-A/0265/SDC/003 D	87	98	87	96	00
07	DF/24-A/0265/SDC/003 S	86	95	84	93	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

672 770

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0I260000

WO #: DL1RL101

BATCH: 0270159

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Benzene	0.500	0.446	89	79 - 116	
2-Butanone	0.500	0.207	41	35 - 156	
Carbon tetrachloride	0.500	0.511	102	72 - 133	
Chlorobenzene	0.500	0.441	88	81 - 115	
Chloroform	0.500	0.475	95	81 - 122	
1,2-Dichloroethane	0.500	0.435	87	73 - 127	
1,1-Dichloroethene	0.500	0.443	89	65 - 119	
Tetrachloroethene	0.500	0.559	112	78 - 131	
Trichloroethene	0.500	0.510	102	80 - 122	
Vinyl chloride	0.500	0.523	105	53 - 134	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

STL Pittsburgh

18

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/003

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVK410L

BATCH: 0270159

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Benzene	0.500	ND	0.461	92	73 - 123	
2-Butanone	0.500	ND	0.226	45	10 - 151	
Carbon tetrachloride	0.500	ND	0.537	107	61 - 143	
Chlorobenzene	0.500	ND	0.452	90	70 - 122	
Chloroform	0.500	ND	0.487	97	65 - 131	
1,2-Dichloroethane	0.500	ND	0.453	91	67 - 132	
1,1-Dichloroethene	0.500	ND	0.439	88	57 - 138	
Tetrachloroethene	0.500	ND	0.599	120	70 - 130	
Trichloroethene	0.500	ND	0.515	103	58 - 141	
Vinyl chloride	0.500	ND	0.530	106	51 - 133	

NOTES (S) :

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: 0 out of 10 outside limits

COMMENTS:

672 772 SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/003

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVK410M

BATCH: 0270159

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS		QUAL
					RPD	REC	
Benzene	0.500	0.449	90	2.6	20	73 - 123	
2-Butanone	0.500	0.229	46	1.6	34	10 - 151	
Carbon tetrachloride	0.500	0.498	100	7.6	20	61 - 143	
Chlorobenzene	0.500	0.446	89	1.2	20	70 - 122	
Chloroform	0.500	0.472	94	3.2	20	65 - 131	
1,2-Dichloroethane	0.500	0.438	88	3.4	20	67 - 132	
1,1-Dichloroethene	0.500	0.463	93	5.3	20	57 - 138	
Tetrachloroethene	0.500	0.574	115	4.3	20	70 - 130	
Trichloroethene	0.500	0.508	102	1.4	20	58 - 141	
Vinyl chloride	0.500	0.524	105	1.2	20	51 - 133	

NOTES (S) :

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

* Values outside of QC limits

RPD: 0 out of 10 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DL1N5101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: WB50926.D

Lot Number: C0I220208

Date Analyzed: 09/26/00

Time Analyzed: 08:00

Matrix: SOLID

Date Extracted: 09/26/00

GC Column: RTX-624 ID: .18

Extraction Method: 1311/5030B

Instrument ID: HP5

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-A/0265/SDC/001	DKVJW102	5092601.D	09/26/00	08:24
02	DF/24-A/0265/SDC/002	DKVK3102	5092602.D	09/26/00	08:50
03	DF/24-A/0265/SDC/003	DKVK410L S	5092606.D	09/26/00	10:34
04	DF/24-A/0265/SDC/003	DKVK410M D	5092607.D	09/26/00	10:58
05	DF/24-A/0265/SDC/003	DKVK4102	5092603.D	09/26/00	09:15
06	CHECK SAMPLE	DL1RL101 C	5092604.D	09/26/00	09:43
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:

672 774

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I260000 113

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DL1N5101

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: NA

QC Batch: 0270159

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

672 775

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0I220208

Lab File ID (Standard): 1C50926

Date Analyzed: 09/26/00

Instrument ID: HP5

Time Analyzed: 0711

GC Column: DB 624 ID: 0.20 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	158874	9.97	249194	12.28	834936	6.87
UPPER LIMIT	317748	10.17	498388	12.48	1669872	7.07
LOWER LIMIT	79437	9.77	124597	12.08	417468	6.67
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	153660	9.96	255216	12.27	704833	6.87
02 DF/24-A/0265	147024	9.96	246040	12.27	717486	6.88
03 DF/24-A/0265	148792	9.97	248081	12.27	692774	6.88
04 DF/24-A/0265	150005	9.96	249956	12.28	758786	6.88
05 INTRA LAB CH	146221	9.96	243334	12.28	760547	6.87
06 DF/24-A/0265	145276	9.97	229950	12.28	779070	6.87
07 DF/24-A/0265	153433	9.97	240209	12.27	813640	6.87
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.

672 776

GC/MS SEMIVOLATILE SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DKVJW103

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 11

QC Batch: 0272099

Client Sample Id: DF/24-A/0265/SDC/001

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

672 778

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DKVJW10L

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 11

QC Batch: 0272099

Client Sample Id: DF/24-A/0265/SDC/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.165	
121-14-2	2,4-Dinitrotoluene	0.203	
118-74-1	Hexachlorobenzene	0.172	
87-68-3	Hexachlorobutadiene	0.156	
67-72-1	Hexachloroethane	0.161	
98-95-3	Nitrobenzene	0.188	
87-86-5	Pentachlorophenol	0.185	
110-86-1	Pyridine	0.195	
95-95-4	2,4,5-Trichlorophenol	0.174	
88-06-2	2,4,6-Trichlorophenol	0.170	
1319-77-3	Cresols (total)	0.608	

FORM I

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DKVJW10M

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 11

QC Batch: 0272099

Client Sample Id: DF/24-A/0265/SDC/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.138	
121-14-2	2,4-Dinitrotoluene	0.179	
118-74-1	Hexachlorobenzene	0.161	
87-68-3	Hexachlorobutadiene	0.129	
67-72-1	Hexachloroethane	0.132	
98-95-3	Nitrobenzene	0.161	
87-86-5	Pentachlorophenol	0.177	
110-86-1	Pyridine	0.166	
95-95-4	2,4,5-Trichlorophenol	0.157	
88-06-2	2,4,6-Trichlorophenol	0.147	
1319-77-3	Cresols (total)	0.513	

672 780

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DKVK3103

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 27

QC Batch: 0272099

Client Sample Id: DF/24-A/0265/SDC/002

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

FORM I

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DKVK4103

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 15

QC Batch: 0272099

Client Sample Id: DF/24-A/0265/SDC/003

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

672 782

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I280000 099

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DL676102

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: NA

QC Batch: 0272099

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.189	
121-14-2	2,4-Dinitrotoluene	0.197	
118-74-1	Hexachlorobenzene	0.174	
87-68-3	Hexachlorobutadiene	0.188	
67-72-1	Hexachloroethane	0.193	
98-95-3	Nitrobenzene	0.199	
87-86-5	Pentachlorophenol	0.195	
110-86-1	Pyridine	0.230	
95-95-4	2,4,5-Trichlorophenol	0.184	
88-06-2	2,4,6-Trichlorophenol	0.178	
1319-77-3	Cresols (total)	0.626	

FORM I

SW846 8270C SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0I220208

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/24-A/0265/SDC/001	67	52	113	57	66	68	00
02	DF/24-A/0265/SDC/002	70	54	118	60	69	67	00
03	DF/24-A/0265/SDC/003	68	54	112	57	66	67	00
04	METHOD BLK. DL676101	67	58	109	61	68	63	00
05	LCS DL676102	76	67	103	70	75	70	00
06	DF/24-A/0265/SDC/001 D	61	51	108	49	58	62	00
07	DF/24-A/0265/SDC/001 S	72	59	115	59	71	68	00

SURROGATES

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

QC LIMITS

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

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

FORM II

672 784 SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0I280000

WO #: DL676102

BATCH: 0272099

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene	0.250	0.189	76	28- 110	
2,4-Dinitrotoluene	0.250	0.197	79	47- 131	
Hexachlorobenzene	0.250	0.174	69	57- 128	
Hexachlorobutadiene	0.250	0.188	75	36- 116	
Hexachloroethane	0.250	0.193	77	30- 110	
Nitrobenzene	0.250	0.199	80	45- 130	
Pentachlorophenol	0.250	0.195	78	10- 140	
Pyridine	0.250	0.230	92	10- 148	
2,4,5-Trichlorophenol	0.250	0.184	74	41- 125	
2,4,6-Trichlorophenol	0.250	0.178	71	46- 135	
Cresols (total)	0.750	0.626	84	29- 144	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/001

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVJW10L

BATCH: 0272099

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
2,4-Dinitrotoluene	0.250	ND	0.203	81	31- 131	
Hexachlorobenzene	0.250	ND	0.172	69	36- 132	
Hexachlorobutadiene	0.250	ND	0.156	62	18- 116	
1,4-Dichlorobenzene	0.250	ND	0.165	66	18- 110	
Hexachloroethane	0.250	ND	0.161	64	18- 110	
Nitrobenzene	0.250	ND	0.188	75	10- 211	
Pentachlorophenol	0.250	ND	0.185	74	10- 140	
Pyridine	0.250	ND	0.195	78	10- 148	
2,4,5-Trichlorophenol	0.250	ND	0.174	69	24- 143	
2,4,6-Trichlorophenol	0.250	ND	0.170	68	36- 135	
Cresols (total)	0.750	ND	0.608	81	25- 144	

NOTES(S):

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: 0 out of 11 outside limits

COMMENTS:

672 786 SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/001

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVJW10M

BATCH: 0272099

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
1,4-Dichlorobenzene	0.250	0.138	55	18	36	18 - 110	
2,4-Dinitrotoluene	0.250	0.179	72	12	32	31 - 131	
Hexachlorobenzene	0.250	0.161	64	6.8	22	36 - 132	
Hexachlorobutadiene	0.250	0.129	52	19	32	18 - 116	
Hexachloroethane	0.250	0.132	53	19	33	18 - 110	
Nitrobenzene	0.250	0.161	64	16	50	10 - 211	
Pentachlorophenol	0.250	0.177	71	4.7	56	10 - 140	
Pyridine	0.250	0.166	66	16	65	10 - 148	
2,4,5-Trichlorophenol	0.250	0.157	63	10	22	24 - 143	
2,4,6-Trichlorophenol	0.250	0.147	59	15	27	36 - 135	
Cresols (total)	0.750	0.513	68	17	33	25 - 144	

NOTES(S) :

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

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

COMMENTS:

SW846 8270C METHOD BLANK SUMMARY

BLANK WORKORDER NO.

672 787

DL676101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: S0929007.

Lot Number: C0I220208

Date Analyzed: 09/29/00

Time Analyzed: 09:48

Matrix: SOLID

Date Extracted: 09/27/00

GC Column: DB5MS ID: .25

Extraction Method: 1311/3520C

Instrument ID: 71

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-A/0265/SDC/001	DKVJW10L S	S0929009.	09/29/00	10:54
02	DF/24-A/0265/SDC/001	DKVJW10M D	S0929010.	09/29/00	11:28
03	DF/24-A/0265/SDC/001	DKVJW103	S0929011.	09/29/00	12:01
04	DF/24-A/0265/SDC/002	DKVK3103	S0929012.	09/29/00	12:35
05	DF/24-A/0265/SDC/003	DKVK4103	S0929013.	09/29/00	13:08
06	CHECK SAMPLE	DL676102 C	S0929008.	09/29/00	10:21
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

672 788

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C01280000 099

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DL676101

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: NA

QC Batch: 0272099

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

672 789

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0I220208

Lab File ID (Standard): S0929CCC

Date Analyzed: 09/29/00

Instrument ID: 71

Time Analyzed: 0842

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	187768	4.97	684103	6.48	326887	9.50
UPPER LIMIT	375536	5.47	1368206	6.98	653774	10.00
LOWER LIMIT	93884	4.47	342052	5.98	163444	9.00
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	226120	4.97	862469	6.49	454147	9.50
02 INTRA-LAB CH	213747	4.97	804360	6.49	410231	9.50
MS 03 DF/24-A/0265	207992	4.98	798685	6.49	414077	9.51
MSD 04 DF/24-A/0265	228467	4.98	877776	6.49	452129	9.50
05 DF/24-A/0265	221826	4.98	850046	6.49	442455	9.50
06 DF/24-A/0265	239571	4.98	918416	6.49	481901	9.51
07 DF/24-A/0265	235999	4.98	903667	6.49	468036	9.51
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

672 790

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT Case No.:

SAS No.:

SDG No.: C0I220208

Lab File ID (Standard): S0929CCC

Date Analyzed: 09/29/00

Instrument ID: 71

Time Analyzed: 0842

	IS4 (PHN)		IS5 (CRY)		IS6 (PRY)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	441990	12.79	351038	19.41	360291	22.78
UPPER LIMIT	883980	13.29	702076	19.91	720582	23.28
LOWER LIMIT	220995	12.29	175519	18.91	180146	22.28
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	678516	12.79	360012	19.41	293812	22.78
02 INTRA-LAB CH	608431	12.79	404723	19.41	342877	22.77
03 DF/24-A/0265	620474	12.80	364664	19.42	310059	22.78
04 DF/24-A/0265	662258	12.80	397161	19.42	332035	22.78
05 DF/24-A/0265	650758	12.80	367004	19.42	319332	22.78
06 DF/24-A/0265	718741	12.80	402274	19.42	333010	22.78
07 DF/24-A/0265	693231	12.80	394633	19.42	338966	22.78
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

672 792

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVJW104

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 11

QC Batch: 0271574

Client Sample Id: DF/24-A/0265/SDC/001

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

FORM I

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK3104

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 27

QC Batch: 0271574

Client Sample Id: DF/24-A/0265/SDC/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

672 794

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK310L

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 27

QC Batch: 0271574

Client Sample Id: DF/24-A/0265/SDC/002

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00225	
76-44-8	Heptachlor	0.00217	
1024-57-3	Heptachlor epoxide	0.00224	
58-89-9	Lindane	0.00134	
72-43-5	Methoxychlor	0.00283	

FORM I

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK310M

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 27

QC Batch: 0271574

Client Sample Id: DF/24-A/0265/SDC/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00222	
76-44-8	Heptachlor	0.00213	
1024-57-3	Heptachlor epoxide	0.00220	
58-89-9	Lindane	0.00131	
72-43-5	Methoxychlor	0.00280	

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK4104

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 15

QC Batch: 0271574

Client Sample Id: DF/24-A/0265/SDC/003

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I270000 574

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DL628102

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: NA

QC Batch: 0271574

Client Sample Id: CHECK SAMPLE

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00214	
76-44-8	Heptachlor	0.00219	
1024-57-3	Heptachlor epoxide	0.00224	
58-89-9	Lindane	0.00134	
72-43-5	Methoxychlor	0.00280	

672 798

SW846 8081A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0I220208

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/24-A/0265/SDC/001	101	86	00
02	DF/24-A/0265/SDC/002	104	90	00
03	DF/24-A/0265/SDC/003	99	87	00
04	METHOD BLK. DL628101	105	93	00
05	LCS DL628102	97	82	00
06	DF/24-A/0265/SDC/002 D	94	79	00
07	DF/24-A/0265/SDC/002 S	95	80	00

SURROGATES

SRG01 = Decachlorobiphenyl
SRG02 = Tetrachloro-m-xylene

QC LIMITS

(10-147)
(39-130)

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

FORM II

SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0I270000

WO #: DL628102

BATCH: 0271574

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Lindane	0.00250	0.00134	54	49 - 137	
Heptachlor	0.00250	0.00219	87	57 - 124	
Heptachlor epoxide	0.00250	0.00224	90	53 - 135	
Endrin	0.00250	0.00214	86	46 - 137	
Methoxychlor	0.00250	0.00280	112	12 - 154	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

672 800

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/002

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVK310L

BATCH: 0271574

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Lindane	0.00250	ND	0.00134	54	30 - 148	
Heptachlor	0.00250	ND	0.00217	87	25 - 135	
Heptachlor epoxide	0.00250	ND	0.00224	90	38 - 138	
Endrin	0.00250	ND	0.00225	90	28 - 148	
Methoxychlor	0.00250	ND	0.00283	113	13 - 154	

NOTES(S):

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

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/002

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVK310M

BATCH: 0271574

COMPOUND	SPIKE	MSD	MSD		QC LIMITS		QUAL
	ADDED (mg/L)	CONCENT. (mg/L)	% REC	% RPD	RPD	REC	
Lindane	0.00250	0.00131	53	2.0	22	30 - 148	
Heptachlor	0.00250	0.00213	85	1.9	32	25 - 135	
Heptachlor epoxide	0.00250	0.00220	88	2.1	31	38 - 138	
Endrin	0.00250	0.00222	89	1.2	40	28 - 148	
Methoxychlor	0.00250	0.00280	112	1.1	29	13 - 154	

NOTES (S) :

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

RPD: ____0 out of ____5 outside limits
 Spike Recovery: ____0 out of ____5 outside limits

COMMENTS:

672 802

SW846 8081A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DL628101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D-A6351.d

Lot Number: C0I220208

Matrix: SOLID

Extraction Method: 1311/3510

Date Analyzed(1): 09/29/00

Date Extracted: 09/27/00

Date Analyzed(2): N/A

Time Analyzed(1): 12:00

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): DB608/1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/24-A/0265/SDC/001	DKVJW104	09/29/00	N/A
02	DF/24-A/0265/SDC/002	DKVK310L S	09/29/00	N/A
03	DF/24-A/0265/SDC/002	DKVK310M D	09/29/00	N/A
04	DF/24-A/0265/SDC/002	DKVK3104	09/29/00	N/A
05	DF/24-A/0265/SDC/003	DKVK4104	09/29/00	N/A
06	CHECK SAMPLE	DL628102 C	09/29/00	N/A
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) SOLID Lab Sample ID: C0I270000 574
Method: SW846 8081A
Pesticides (8081A)

Sample WT/Vol: 100 / mL Date Received: 09/22/00
Work Order: DL628101 Date Extracted: 09/27/00
Dilution factor: 1 Date Analyzed: 09/29/00
Moisture %: NA

QC Batch: 0271574

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

672 804

HERBICIDE SUMMARY

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C01220208 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVJW105

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: 11

QC Batch: 0271583

Client Sample Id: DF/24-A/0265/SDC/001

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

672 806

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK3105

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: 27

QC Batch: 0271583

Client Sample Id: DF/24-A/0265/SDC/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

FORM I

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK310N

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: 27

QC Batch: 0271583

Client Sample Id: DF/24-A/0265/SDC/002

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.116	
93-72-1	2,4,5-TP (Silvex)	0.0295	

FORM I

672 808

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK310P

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: 27

QC Batch: 0271583

Client Sample Id: DF/24-A/0265/SDC/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/kg)	mg/L	
94-75-7	2,4-D	0.120		
93-72-1	2,4,5-TP (Silvex)	0.0297		

FORM I

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 003

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK4105

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: 15

QC Batch: 0271583

Client Sample Id: DF/24-A/0265/SDC/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

672 810

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C01270000 583

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DL636102

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: NA

QC Batch: 0271583

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.123	
93-72-1	2,4,5-TP (Silvex)	0.0301	

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT QESSDG:

Lot #: C0I220208

	CLIENT ID.	SRG01	TOT OUT
	=====	=====	=====
01	DF/24-A/0265/SDC/001	74	00
02	DF/24-A/0265/SDC/002	55	00
03	DF/24-A/0265/SDC/003	75	00
04	METHOD BLK. DL636101	73	00
05	LCS DL636102	87	00
06	DF/24-A/0265/SDC/002 D	75	00
07	DF/24-A/0265/SDC/002 S	82	00

SURROGATES
SRG01 = DCAA

QC LIMITS
(42-125)

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

FORM II

672 812

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0I270000

WO #: DL636102

BATCH: 0271583

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	0.160	0.123	77	28 - 136	
2,4,5-TP (Silvex)	0.0400	0.0301	75	50 - 128	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/002

Lot #: C0I220208

WO #: DKVK310N

BATCH: 0271583

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
2,4-D	0.160	ND	0.116	72	35 - 133	
2,4,5-TP (Silvex)	0.0400	ND	0.0295	74	50 - 131	

NOTES (S) :

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

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

672 814

SW846 8151A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/002

Lot #: C0I220208

WO #: DKVK310P

BATCH: 0271583

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
2,4-D	0.160	0.120	75	3.5	20	35 - 133	
2,4,5-TP (Silvex)	0.0400	0.0297	74	0.67	20	50 - 131	

NOTES (S) :

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

RPD: 0 out of 2 outside limitsSpike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

672 815

DL636101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: A-A60219.

Lot Number: C0I220208

Matrix: SOLID

Extraction Method:

Date Extracted: 09/27/00

Date Analyzed(1): 09/29/00

Date Analyzed(2): N/A

Time Analyzed(1): 00:01

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

GC Column(1): DB5/DB1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/24-A/0265/SDC/001	DKVJW105	09/28/00	N/A
02	DF/24-A/0265/SDC/002	DKVK310N S	09/28/00	N/A
03	DF/24-A/0265/SDC/002	DKVK310P D	09/28/00	N/A
04	DF/24-A/0265/SDC/002	DKVK3105	09/28/00	N/A
05	DF/24-A/0265/SDC/003	DKVK4105	09/28/00	N/A
06	CHECK SAMPLE	DL636102 C	09/28/00	N/A
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

672 816

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I270000 583

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DL636101

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: NA

QC Batch: 0271583

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

METALS SUMMARY

672 818

STL-Pittsburgh
Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVJW Client ID: DF/24-A/0265/SDC/001
Matrix: Soil Units: mg/kg Prep Date: 9/23/00 Prep Batch: 0267137
Weight: 1.00 Volume: 100 Percent Moisture: 11.00

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	1.1	11.0		1	ICPST	9/24/00	19:49

Comments: C0I220208001

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK3 Client ID: DF/24-A/0265/SDC/002
Matrix: Soil Units: mg/kg Prep Date: 9/23/00 Prep Batch: 0267137
Weight: 1.00 Volume: 100 Percent Moisture: 26.51

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.35	1.4	11.4		1	ICPST	9/24/00	19:53

Comments: C01220208002

Version 4.10.2

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

Form 1 Equivalent

672 820

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK4 Client ID: DF/24-A/0265/SDC/003
Matrix: Soil Units: mg/kg Prep Date: 9/23/00 Prep Batch: 0267137
Weight: 1.00 Volume: 100 Percent Moisture: 15.03

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	1.2	16.3		1	ICPST	9/24/00	19:57

Comments: C0I220208003

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: ICPSTUnits: ug/LChart Number: T00924B.ARC

Standard Source: _____

Standard ID: _____

			ICB1 9/24/00 3:54 PM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.6	U				

672 822

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00924B.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 9/24/00 4:46 PM	CCB2 9/24/00 5:07 PM	CCB3 9/24/00 5:57 PM	CCB4 9/24/00 6:47 PM	CCB5 9/24/00 7:37 PM
			Found Q	Found Q	Found Q	Found Q	Found Q
Arsenic	189.042	10	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00924B.ARC

Standard Source: _____

Standard ID: _____

			CCB6 9/24/00 8:06 PM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.6	U				

672 824

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DKXP3BMatrix: Soil Units: mg/kg Prep Date: 9/23/00 Prep Batch: 0267137Weight: 1.00 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.26	1.0	0.26	U	1	ICPST	9/24/00	18:01

Comments: _____

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

Laboratory Control Sample Results

Lab Sample ID: DKXP3CMatrix: Soil Units: mg/kg Prep Date: 9/23/00 Prep Batch: 0267137Weight: 1.00 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	200	210	105.0		80-120	1	ICPST	9/24/00	18:05

Comments: _____

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

TCLP METALS SUMMARY

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVJWT Client ID: DF/24-A/0265/SDC/001
Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.00013	B	1	CVAA	9/27/00	10:09

Comments: Lot#: C0I220208 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

Sample Results

Lab Sample ID: DKVK3T Client ID: DF/24-A/0265/SDC/002
Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000060	B	1	CVAA	9/27/00	10:11

Comments: Lot#: C01220208 Sample#: 2

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK4T Client ID: DF/24-A/0265/SDC/003
Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000089	B	1	CVAA	9/27/00	10:13

Comments: Lot#: C01220208 Sample#: 3

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

Sample Results

Lab Sample ID: DKVJWT Client ID: DF/24-A/0265/SDC/001
 Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.030	0.50	0.12	B	1	ICP	9/27/00	19:37
Barium	493.41	0.00041	10.0	1.2	BE	1	ICP	9/27/00	19:37
Cadmium	228.80	0.0028	0.10	0.0041	B	1	ICP	9/27/00	19:37
Chromium	267.72	0.0038	0.50	0.0038	U	1	ICP	9/27/00	19:37
Lead	220.35	0.025	0.50	0.025	U	1	ICP	9/27/00	19:37
Selenium	196.03	0.067	0.25	0.067	U	1	ICP	9/27/00	19:37
Silver	328.07	0.0031	0.50	0.0031	U	1	ICP	9/27/00	19:37

Comments: Lot#: C0I220208 Sample#: 1

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK3T Client ID: DF/24-A/0265/SDC/002
 Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204
 Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.030	0.50	0.13	B	1	ICP	9/27/00	19:57
Barium	493.41	0.00041	10.0	1.4	BE	1	ICP	9/27/00	19:57
Cadmium	228.80	0.0028	0.10	0.0028	U	1	ICP	9/27/00	19:57
Chromium	267.72	0.0038	0.50	0.0038	U	1	ICP	9/27/00	19:57
Lead	220.35	0.025	0.50	0.025	U	1	ICP	9/27/00	19:57
Selenium	196.03	0.067	0.25	0.067	U	1	ICP	9/27/00	19:57
Silver	328.07	0.0031	0.50	0.0031	U	1	ICP	9/27/00	19:57

Comments: Lot#: C0I220208 Sample#: 2

Version 4.10.2

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

Form 1 Equivalent

672 832

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK4T Client ID: DF/24-A/0265/SDC/003
Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204
Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.030	0.50	0.14	B	1	ICP	9/27/00	20:00
Barium	493.41	0.00041	10.0	1.4	BE	1	ICP	9/27/00	20:00
Cadmium	228.80	0.0028	0.10	0.0097	B	1	ICP	9/27/00	20:00
Chromium	267.72	0.0038	0.50	0.0038	U	1	ICP	9/27/00	20:00
Lead	220.35	0.025	0.50	0.043	B	1	ICP	9/27/00	20:00
Selenium	196.03	0.067	0.25	0.067	U	1	ICP	9/27/00	20:00
Silver	328.07	0.0031	0.50	0.0031	U	1	ICP	9/27/00	20:00

Comments: Lot#: C01220208 Sample#: 3

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: 0927HGA.PRN

Standard Source: _____

Standard ID: _____

			ICBI 9/27/00 9:57 AM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U				

672 834

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00927C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 9/27/00 7:06 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	193.696	500	30.3	U						
Barium	493.409	10000	0.6	B						
Cadmium	228.802	100	2.8	U						
Chromium	267.716	500	3.8	U						
Lead	220.353	500	24.6	U						
Selenium	196.026	250	67.4	U						
Silver	328.068	500	3.1	U						

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0927HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 9/27/00 10:02 AM		CCB2 9/27/00 10:24 AM					
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	B	0.0	U				

672 836

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00927C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 9/27/00 7:47 PM		CCB2 9/27/00 8:10 PM					
			Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	193.696	500	30.3	U	30.3	U				
Barium	493.409	10000	1.1	B	1.2	B				
Cadmium	228.802	100	2.8	U	2.8	U				
Chromium	267.716	500	3.8	U	3.8	U				
Lead	220.353	500	24.6	U	24.6	U				
Selenium	196.026	250	67.4	U	67.4	U				
Silver	328.068	500	3.1	U	3.1	U				

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DL26DBTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000093	B	1	CVAA	9/27/00	10:08

Comments: _____

Version 4.10.2

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

Form 3 Equivalent

672 838

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DL29GBTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000064	B	1	CVAA	9/27/00	10:04

Comments: _____

Version 4.10.2

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

Form 3 Equivalent

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DL26DBTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.696	0.030	0.50	0.18	B	1	ICP	9/27/00	19:24
Barium	493.409	0.00041	10.0	0.0011	B	1	ICP	9/27/00	19:24
Cadmium	228.802	0.0028	0.10	0.0028	U	1	ICP	9/27/00	19:24
Chromium	267.716	0.0038	0.50	0.0038	U	1	ICP	9/27/00	19:24
Lead	220.353	0.025	0.50	0.025	U	1	ICP	9/27/00	19:24
Selenium	196.026	0.067	0.25	0.067	U	1	ICP	9/27/00	19:24
Silver	328.068	0.0031	0.50	0.0031	U	1	ICP	9/27/00	19:24

Comments: _____

Version 4.10.2

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

Form 3 Equivalent

672 840

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DL43NBTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.696	0.030	0.50	0.030	U	1	ICP	9/27/00	19:17
Barium	493.409	0.00041	10.0	0.00041	U	1	ICP	9/27/00	19:17
Cadmium	228.802	0.0028	0.10	0.0028	U	1	ICP	9/27/00	19:17
Chromium	267.716	0.0038	0.50	0.0038	U	1	ICP	9/27/00	19:17
Lead	220.353	0.025	0.50	0.025	U	1	ICP	9/27/00	19:17
Selenium	196.026	0.067	0.25	0.067	U	1	ICP	9/27/00	19:17
Silver	328.068	0.0031	0.50	0.0031	U	1	ICP	9/27/00	19:17

Comments: _____

Version 4.10 2

U Result is less than the MDL

B Result is between MDL and RL

Form 3 Equivalent

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DL29GCTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272Weight: 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	0.0025	0.0027	108.0		80-120	1	CVAA	9/27/00	10:06

Comments: _____

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

672 842

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DL43NCTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	193.696	2.0	2.2	112.0		80-120	1	ICP	9/27/00	19:21
Barium	493.409	2.0	1.9	96.5	B	80-120	1	ICP	9/27/00	19:21
Cadmium	228.802	0.050	0.050	99.8	B	80-120	1	ICP	9/27/00	19:21
Chromium	267.716	0.20	0.20	97.4	B	80-120	1	ICP	9/27/00	19:21
Lead	220.353	0.50	0.48	96.0	B	80-120	1	ICP	9/27/00	19:21
Selenium	196.026	2.0	2.2	112.2		80-120	1	ICP	9/27/00	19:21
Silver	328.068	0.050	0.049	98.4	B	80-120	1	ICP	9/27/00	19:21

Comments: _____

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

GENERAL CHEMISTRY SUMMARY

672 844

UXB INTERNATIONAL

Client Sample ID: DF/24-A/0265/SDC/001

General Chemistry

Lot-Sample #....: C0I220208-001 Work Order #....: DKVJW Matrix.....: SOLID
 Date Sampled...: 09/21/00 Date Received...: 09/22/00
 % Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.4		No Units	SW846 9045C	09/22/00	0266201
				Dilution Factor: 1	MS Run #.....: 0266073	
Ignitability	NO	--	No Units	SW846 SECTION 7.1	09/26/00	0270387
				Dilution Factor: 1	MS Run #.: 0270185	
Percent Solids	89.0		%	MCAWW 160.3 MOD	09/25-09/26/00	0269158
				Dilution Factor: 1	MS Run #.....: 0269041	
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	09/27/00	0271573
				Dilution Factor: 1	MS Run #.....: 0271298	
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	09/27/00	0271572
				Dilution Factor: 1	MS Run #.....: 0271296	

UXB INTERNATIONAL

Client Sample ID: DF/24-A/0265/SDC/002

General Chemistry

Lot-Sample #...: C0I220208-002 Work Order #...: DKVK3 Matrix.....: SOLID
 Date Sampled...: 09/21/00 Date Received...: 09/22/00
 % Moisture.....: 27

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.6		No Units	SW846 9045C	09/22/00	0266201
			Dilution Factor: 1	MS Run #.....: 0266073		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	09/26/00	0270387
			Dilution Factor: 1	MS Run #.....: 0270185		
Percent Solids	73.5		%	MCAWW 160.3 MOD	09/25-09/26/00	0269158
			Dilution Factor: 1	MS Run #.....: 0269041		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	09/27/00	0271573
			Dilution Factor: 1	MS Run #.....: 0271298		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	09/27/00	0271572
			Dilution Factor: 1	MS Run #.....: 0271296		

672 846

UXB INTERNATIONAL

Client Sample ID: DF/24-A/0265/SDC/003

General Chemistry

Lot-Sample #...: C0I220208-003 Work Order #...: DKVK4 Matrix.....: SOLID
Date Sampled...: 09/21/00 Date Received...: 09/22/00
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.1		No Units	SW846 9045C	09/22/00	0266201
			Dilution Factor: 1	MS Run #.....: 0266073		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	09/26/00	0270387
			Dilution Factor: 1	MS Run #.....: 0270185		
Percent Solids	85.0		%	MCAWW 160.3 MOD	09/25-09/26/00	0269158
			Dilution Factor: 1	MS Run #.....: 0269041		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	09/27/00	0271573
			Dilution Factor: 1	MS Run #.....: 0271298		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	09/27/00	0271572
			Dilution Factor: 1	MS Run #.....: 0271296		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0I220208

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Reactive Cyanide	ND	Work Order #: DL625101 200	mg/kg	MB Lot-Sample #: A0I270000-573 SW846 7.3.3	09/27/00	0271573
		Dilution Factor: 1				
Reactive Sulfide	ND	Work Order #: DL622101 200	mg/kg	MB Lot-Sample #: A0I270000-572 SW846 7.3.4	09/27/00	0271572
		Dilution Factor: 1				

NOTE(S):

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

672 848

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I220208

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	101	Work Order #: DKV18101 (85 - 115)	LCS Lot-Sample#: C0I220000-201 SW846 9045C	09/22/00	0266201
		Dilution Factor: 1			

NOTE(S) :

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

672 850

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I220208

Work Order #...: DKT6W-SMP
DKT6W-DUP

Matrix.....: SOLID

Date Sampled...: 09/20/00

Date Received...: 09/21/00

% Moisture.....: 10

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u> <u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
pH	8.0	8.0	No Units	0.37	(0-20)	SW846 9045C	09/22/00	0266201

SD Lot-Sample #: C0I210287-003
Dilution Factor: 1
Prep Date.....: 0266073 Analysis Date... Prep Batch # ...

672 852

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I220208

Work Order #...: DKVXD-SMP
DKVXD-DUP

Matrix.....: SOLID

Date Sampled...: 09/20/00

Date Received...: 09/21/00

% Moisture.....: 16

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>		<u>RPD</u>	<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids						SD Lot-Sample #: C0I220242-001		
84.3		85.2	%	1.0	(0-20)	MCAWW 160.3 MOD	09/25-09/26/00	0269158

Dilution Factor: 1

Prep Date.....: 0269041 Analysis Date..:

Prep Batch #...:

GC/MS VOLATILE DATA

672 854

GC/MS VOLATILE
QC SUMMARY

SW846 8260B SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0I220208

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	TOT OUT
	=====	=====	=====	=====	=====	=====
01	DF/24-A/0265/SDC/001	91	92	90	98	00
02	DF/24-A/0265/SDC/002	94	95	95	99	00
03	DF/24-A/0265/SDC/003	89	91	87	93	00
04	METHOD BLK. DL1N5101	93	92	93	98	00
05	LCS DL1RL101	86	97	91	96	00
06	DF/24-A/0265/SDC/003 D	87	98	87	96	00
07	DF/24-A/0265/SDC/003 S	86	95	84	93	00

<u>SURROGATES</u>	<u>QC LIMITS</u>
SRG01 = 1,2-Dichloroethane-d4	(77-120)
SRG02 = Toluene-d8	(78-111)
SRG03 = 4-Bromofluorobenzene	(80-114)
SRG04 = Dibromofluoromethane	(78-110)

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

FORM II

672 856

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0I260000

WO #: DL1RL101

BATCH: 0270159

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Benzene	0.500	0.446	89	79 - 116	
2-Butanone	0.500	0.207	41	35 - 156	
Carbon tetrachloride	0.500	0.511	102	72 - 133	
Chlorobenzene	0.500	0.441	88	81 - 115	
Chloroform	0.500	0.475	95	81 - 122	
1,2-Dichloroethane	0.500	0.435	87	73 - 127	
1,1-Dichloroethene	0.500	0.443	89	65 - 119	
Tetrachloroethene	0.500	0.559	112	78 - 131	
Trichloroethene	0.500	0.510	102	80 - 122	
Vinyl chloride	0.500	0.523	105	53 - 134	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

FORM III

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/003

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVK410L

BATCH: 0270159

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
Benzene	0.500	ND	0.461	92	73 - 123	
2-Butanone	0.500	ND	0.226	45	10 - 151	
Carbon tetrachloride	0.500	ND	0.537	107	61 - 143	
Chlorobenzene	0.500	ND	0.452	90	70 - 122	
Chloroform	0.500	ND	0.487	97	65 - 131	
1,2-Dichloroethane	0.500	ND	0.453	91	67 - 132	
1,1-Dichloroethene	0.500	ND	0.439	88	57 - 138	
Tetrachloroethene	0.500	ND	0.599	120	70 - 130	
Trichloroethene	0.500	ND	0.515	103	58 - 141	
Vinyl chloride	0.500	ND	0.530	106	51 - 133	

NOTES (S) :

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

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

COMMENTS:

672 858

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/003

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVK410M

BATCH: 0270159

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
=====	=====	=====	=====	=====	=====	=====	=====
Benzene	0.500	0.449	90	2.6	20	73 - 123	
2-Butanone	0.500	0.229	46	1.6	34	10 - 151	
Carbon tetrachloride	0.500	0.498	100	7.6	20	61 - 143	
Chlorobenzene	0.500	0.446	89	1.2	20	70 - 122	
Chloroform	0.500	0.472	94	3.2	20	65 - 131	
1,2-Dichloroethane	0.500	0.438	88	3.4	20	67 - 132	
1,1-Dichloroethene	0.500	0.463	93	5.3	20	57 - 138	
Tetrachloroethene	0.500	0.574	115	4.3	20	70 - 130	
Trichloroethene	0.500	0.508	102	1.4	20	58 - 141	
Vinyl chloride	0.500	0.524	105	1.2	20	51 - 133	

NOTES (S) :

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

* Values outside of QC limits

RPD: 0 out of 10 outside limitsSpike Recovery: 0 out of 10 outside limits

COMMENTS:

BLANK WORKORDER NO.

SW846 8260B METHOD BLANK SUMMARY

DL1N5101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: WB50926.D

Lot Number: C0I220208

Date Analyzed: 09/26/00

Time Analyzed: 08:00

Matrix: SOLID

Date Extracted: 09/26/00

GC Column: RTX-624 ID: .18

Extraction Method: 1311/5030B

Instrument ID: HP5

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-A/0265/SDC/001	DKVJW102	5092601.D	09/26/00	08:24
02	DF/24-A/0265/SDC/002	DKVK3102	5092602.D	09/26/00	08:50
03	DF/24-A/0265/SDC/003	DKVK410L S	5092606.D	09/26/00	10:34
04	DF/24-A/0265/SDC/003	DKVK410M D	5092607.D	09/26/00	10:58
05	DF/24-A/0265/SDC/003	DKVK4102	5092603.D	09/26/00	09:15
06	CHECK SAMPLE	DL1RL101 C	5092604.D	09/26/00	09:43
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

672 860

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.:

SDG No.: METHODS

Lab File ID: BF50802K

BFB Injection Date: 08/02/00

Instrument ID: HP5

BFB Injection Time: 1308

GC Column: DB624 20M ID: 0.20 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.6
75	30.0 - 60.0% of mass 95	51.0
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	0.7 (0.9)1
174	50.0 - 100.0% of mass 95	81.9
175	5.0 - 9.0% of mass 174	5.6 (6.8)1
176	95.0 - 101.0% of mass 174	78.3 (95.6)1
177	5.0 - 9.0% of mass 176	5.1 (6.5)2
1-Value is % mass 174		2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSXD50	VSTD50	CC50802K	08/02/00	1338
02	VSTD100	VSTD100	1D50802K	08/02/00	2014
03	VSTD200	VSTD200	1E50803K	08/02/00	2041
04	VSTD5	VSTD5	2A50802K	08/02/00	2120
05	VSTD20	VSTD20	2B50802K	08/02/00	2147
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

672 861

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0I220208

Lab File ID: BF50926

BFB Injection Date: 09/26/00

Instrument ID: HP5

BFB Injection Time: 0605

GC Column: DB624 20M ID: 0.20 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.1
75	30.0 - 60.0% of mass 95	44.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 100.0% of mass 95	78.6
175	5.0 - 9.0% of mass 174	5.8 (7.4)1
176	95.0 - 101.0% of mass 174	75.5 (96.0)1
177	5.0 - 9.0% of mass 176	4.9 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	VSTD50	1C50926	09/26/00	0711
02	INTRA-LAB BL	DL1N5101	WB50926	09/26/00	0800
03	DF/24-A/0265	DKVJW102	5092601	09/26/00	0824
04	DF/24-A/0265	DKVK3102	5092602	09/26/00	0850
05	DF/24-A/0265	DKVK4102	5092603	09/26/00	0915
06	INTRA LAB CH	DL1RL101	5092604	09/26/00	0943
07	DF/24-A/0265	DKVK410L	5092606	09/26/00	1034
08	DF/24-A/0265	DKVK410M	5092607	09/26/00	1058
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0I220208

Lab File ID (Standard): 1C50926

Date Analyzed: 09/26/00

Instrument ID: HP5

Time Analyzed: 0711

GC Column: DB 624 ID: 0.20 (mm)

Heated Purge: (Y/N) N

	IS1 (CBZ)	RT #	IS2 (DCB)	RT #	IS3	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	158874	9.97	249194	12.28	834936	6.87
UPPER LIMIT	317748	10.17	498388	12.48	1669872	7.07
LOWER LIMIT	79437	9.77	124597	12.08	417468	6.67
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	153660	9.96	255216	12.27	704833	6.87
02 DF/24-A/0265	147024	9.96	246040	12.27	717486	6.88
03 DF/24-A/0265	148792	9.97	248081	12.27	692774	6.88
04 DF/24-A/0265	150005	9.96	249956	12.28	758786	6.88
05 INTRA LAB CH	146221	9.96	243334	12.28	760547	6.87
06 DF/24-A/0265	145276	9.97	229950	12.28	779070	6.87
07 DF/24-A/0265	153433	9.97	240209	12.27	813640	6.87
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.

GC/MS VOLATILE
SAMPLE DATA

672 864

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 001

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DKVJW102

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: 11

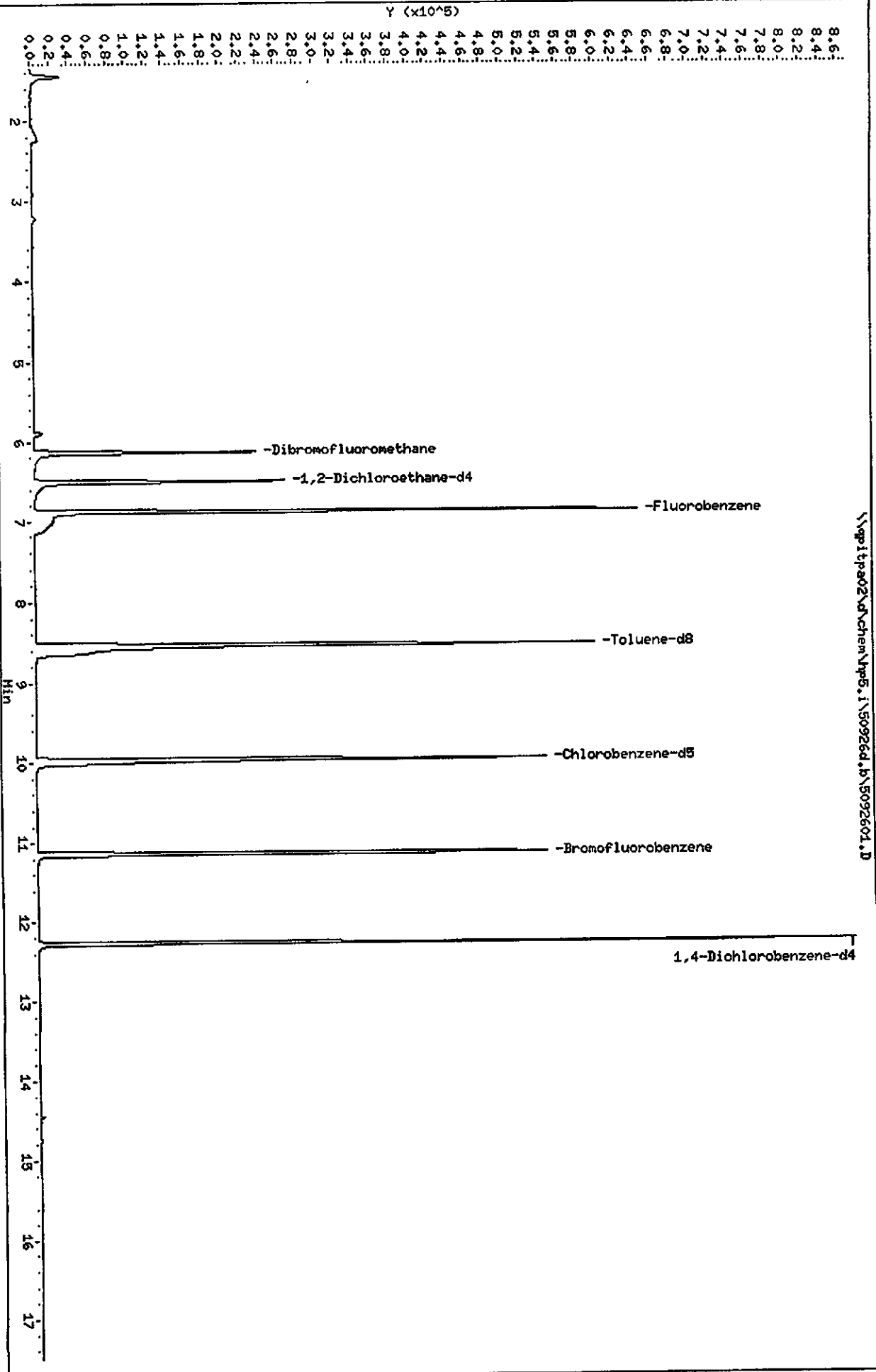
QC Batch: 0270159

Client Sample Id: DF/24-A/0265/SDC/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U

Data File: \\ppitpa02\chem\hp5.1\50926d.b\5092601.D
Date: 26-SEP-2000 08:24
Client ID: DF/24-R/0265/SDC/00
Sample Info: c0120208-001 (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.1
Operator: 10099
Column diameter: 0.20



672 866

Data File: \\qpitpa02\d\chem\hp5.i\50926d.b\5092601.D
 Report Date: 26-Sep-2000 08:47

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50926d.b\5092601.D
 Lab Smp Id: DKVJW102 Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 26-SEP-2000 08:24 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 10099 Inst ID: hp5.i
 Smp Info : c0i220208-001 (1ml/10ml)/5ml
 Misc Info : dkvjw102,50926d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50926d.b\8260bh2o.m
 Meth Date : 26-Sep-2000 08:28 gordonk Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC063

Compound Sublist: tc1p.sub

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.878	6.867	(1.000)	717486	250.000	
* 69 Chlorobenzene-d5	119	9.963	9.970	(1.000)	147024	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.274	12.275	(1.000)	246040	250.000	
\$ 39 Dibromofluoromethane	113	6.130	6.125	(0.891)	166829	244.055	48.81
\$ 43 1,2-Dichloroethane-d4	65	6.495	6.484	(0.944)	199515	228.601	45.72
\$ 59 Toluene-d8	98	8.533	8.528	(0.857)	623501	228.814	45.76
\$ 80 Bromofluorobenzene	95	11.131	11.131	(1.117)	226021	225.349	45.07
3 Vinyl Chloride	62	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
31 2-Butanone	43	Compound Not Detected.					
37 Chloroform	83	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.					
65 Tetrachloroethene	164	Compound Not Detected.					

Data File: \\gpitpa02\d\chem\hp5.i\50926d.b\5092601.D
Report Date: 26-Sep-2000 08:47

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
=====	=====	==	=====	=====	=====	=====	=====
70 Chlorobenzene	112				Compound Not Detected.		

672 868

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DKVK3102

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: 27

QC Batch: 0270159

Client Sample Id: DF/24-A/0265/SDC/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U

Data File: \\epitpa02\chem\hps.1\50926d.b\5092602.D

Date: 26-SEP-2000 08:50

Client ID: DF/24-4/0265/SDC/00

Sample Info: 001220208-006 (4ml/10ml)/5ml

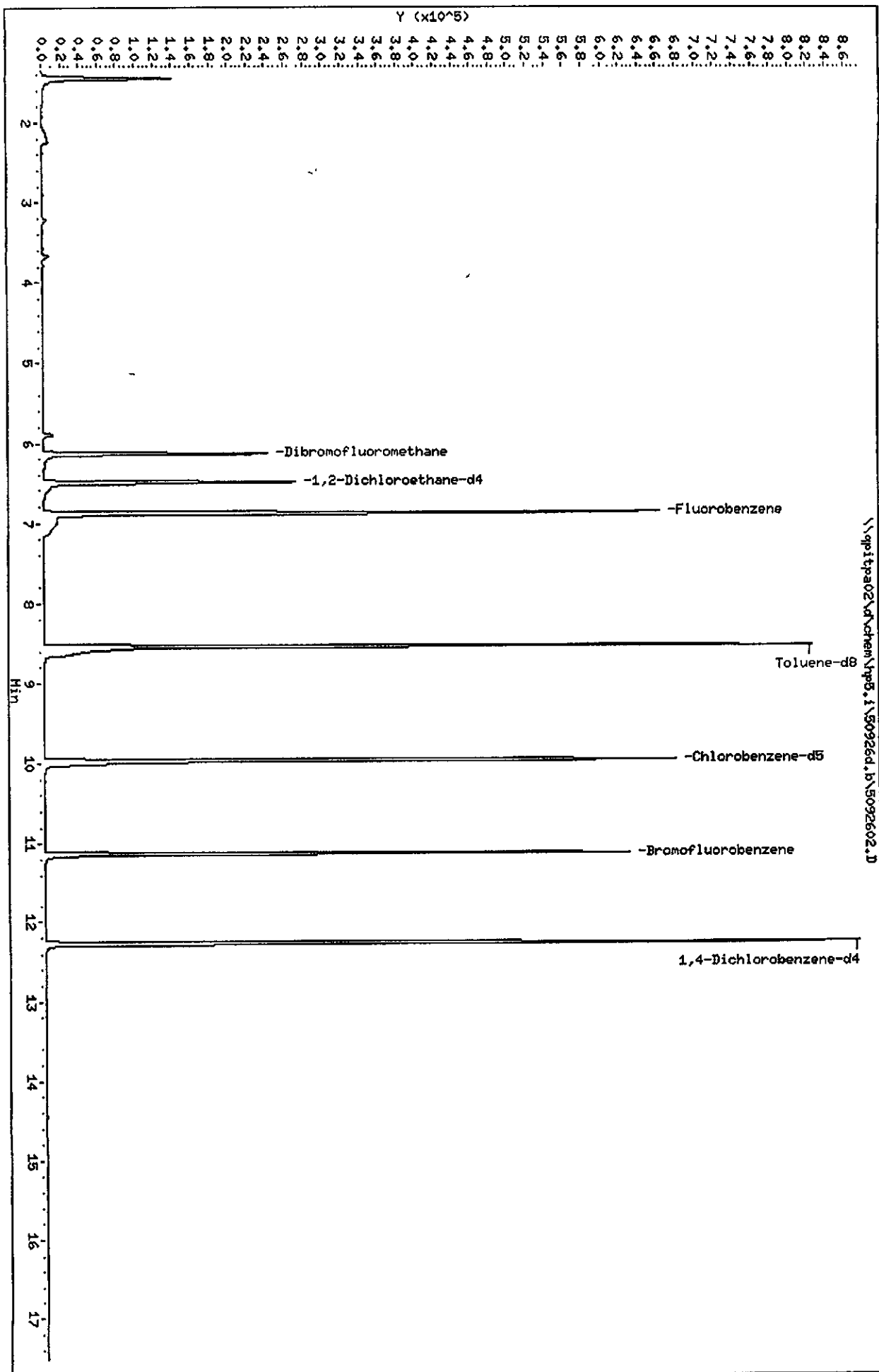
Purge Volume: 5.0

Column phase: DB 624

Instrument: hps.1

Operator: 10099

Column diameter: 0.20



STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50926d.b\5092602.D
 Lab Smp Id: DKVK3102 Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 26-SEP-2000 08:50 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 10099 2469/26/00 Inst ID: hp5.i
 Smp Info : c0i220208-001 (1ml/10ml)/5ml
 Misc Info : dkvk3102,50926d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\qpitpa02\d\chem\hp5.i\50926d.b\8260bh2o.m
 Meth Date : 26-Sep-2000 08:28 gordonk Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: tclp.sub
 Target Version: 4.04
 Processing Host: PITPC063

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.875	6.867	(1.000)	692774	250.000	
* 69 Chlorobenzene-d5	119	9.965	9.970	(1.000)	148792	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.271	12.275	(1.000)	248081	250.000	
\$ 39 Dibromofluoromethane	113	6.133	6.125	(0.892)	163501	247.718	49.54
\$ 43 1,2-Dichloroethane-d4	65	6.492	6.484	(0.944)	197089	233.877	46.78
\$ 59 Toluene-d8	98	8.530	8.528	(0.856)	651631	236.296	47.26
\$ 80 Bromofluorobenzene	95	11.127	11.131	(1.117)	240783	237.215	47.44
3 Vinyl Chloride	62	Compound Not Detected.					
12 1,1-Dichloroethene	96	Compound Not Detected.					
31 2-Butanone	43	Compound Not Detected.					
37 Chloroform	83	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.					
65 Tetrachloroethene	164	Compound Not Detected.					

Data File: \\qpitpa02\d\chem\hp5.i\50926d.b\5092602.D
Report Date: 26-Sep-2000 09:50

Page 21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ng)	(UG/L)
70 Chlbrobenzene ,	112						
					Compound Not Detected.		

672 872

**GC/MS VOLATILE
CALIBRATION DATA**

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

672 873

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP5

Calibration Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N

Calibration Time(s): 1338 2147

GC Column: DB 624 ID: 0.20 (mm)

LAB FILE ID:		RRF5 =2A50802K		RRF20 =2B50802K			
RRF50 =CC50802K		RRF100=1D50802K		RRF200=1E50803K			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.180	0.198	0.184	0.196	0.144	0.180	12.2
Chloromethane	* 0.261	0.295	0.261	0.295	0.274	0.277	6.1*
Vinyl Chloride	0.259	0.290	0.258	0.282	0.230	0.264	8.9
Bromomethane	0.050	0.036	0.031	0.038	0.029	0.037	22.5
Chloroethane	0.046	0.046	0.055	0.052	0.039	0.048	12.6
Trichlorofluoromethane	0.064	0.072	0.085	0.077	0.042	0.068	23.9
1,1-Dichloroethene	0.176	0.217	0.199	0.210	0.169	0.194	10.7
Methylene Chloride	0.191	0.240	0.229	0.280	0.270	0.242	14.6
trans-1,2-Dichloroethene	0.215	0.255	0.216	0.245	0.241	0.234	7.7
1,1-Dichloroethane	* 0.398	0.468	0.416	0.484	0.451	0.443	8.1*
cis-1,2-dichloroethene	0.238	0.285	0.245	0.300	0.295	0.273	10.6
Chloroform	0.350	0.405	0.362	0.436	0.439	0.398	10.3
Bromochloromethane	0.102	0.121	0.108	0.142	0.145	0.124	16.0
1,1,1-Trichloroethane	0.296	0.364	0.323	0.365	0.340	0.338	8.7
Carbon Tetrachloride	0.234	0.293	0.259	0.292	0.263	0.268	9.3
1,2-Dichloroethane	0.300	0.339	0.316	0.411	0.395	0.352	13.9
Benzene	0.940	1.116	0.988	1.143	1.125	1.062	8.6
Trichloroethene	0.225	0.260	0.234	0.263	0.257	0.248	6.9
1,2-Dichloropropane	0.242	0.274	0.258	0.314	0.308	0.279	11.2
Bromodichloromethane	0.240	0.273	0.270	0.343	0.338	0.293	15.6
cis-1,3-Dichloropropene	0.315	0.370	0.359	0.463	0.450	0.391	16.1
Toluene	4.806	5.192	5.014	5.077	4.766	4.971	3.6
trans-1,3-Dichloropropene	1.360	1.663	1.597	1.973	1.961	1.711	15.2
1,1,2-Trichloroethane	0.928	0.994	0.922	1.150	1.141	1.027	10.9
Tetrachloroethene	0.844	0.919	0.890	0.853	0.756	0.852	7.3
Dibromochloromethane	0.722	0.882	0.856	1.112	1.131	0.941	18.7
Chlorobenzene	* 3.084	3.344	3.045	3.322	3.274	3.214	4.3*
Ethylbenzene	1.657	1.880	1.730	1.839	1.729	1.767	5.1
Styrene	2.779	3.305	3.170	3.656	3.423	3.267	10.0
Bromoform	* 0.408	0.509	0.526	0.762	0.758	0.593	26.9*
1,1,2,2-Tetrachloroethane	* 0.921	0.985	0.888	1.148	1.051	0.999	10.4*
1,3-Dichlorobenzene	1.537	1.598	1.445	1.532	1.529	1.528	3.6
1,4-Dichlorobenzene	1.563	1.599	1.453	1.581	1.563	1.552	3.7
1,2-Dichlorobenzene	1.461	1.514	1.371	1.503	1.415	1.453	4.1
Dibromomethane	0.129	0.144	0.135	0.185	0.180	0.155	16.8
1,2-Dibromoethane	0.891	0.990	0.924	1.210	1.183	1.040	14.2
1,1,1,2-Tetrachloroethane	0.842	0.987	0.946	1.094	1.076	0.989	10.4

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

672 874

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.:

SDG No.: METHODS

Instrument ID: HP5

Calibration Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N

Calibration Time(s): 1338 2147

GC Column: DB 624 ID: 0.20 (mm)

LAB FILE ID:	RRF5 =2A50802K	RRF20 =2B50802K					
RRF50 =CC50802K	RRF100=1D50802K	RRF200=1E50803K					
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
=====	=====	=====	=====	=====	=====	=====	=====
1,2,3-Trichloropropane	0.285	0.308	0.277	0.361	0.353	0.317	12.1
1,2-Dibromo-3-chloropropane	0.130	0.140	0.129	0.205	0.204	0.162	24.3
2,2-Dichloropropane	0.302	0.376	0.329	0.374	0.352	0.347	9.1
1,1-Dichloropropene	0.246	0.302	0.265	0.294	0.269	0.275	8.3
1,3-Dichloropropane	1.692	1.889	1.800	2.223	2.155	1.952	11.7
n-Propylbenzene	0.884	1.044	0.911	0.891	0.843	0.915	8.4
Bromobenzene	0.839	0.939	0.822	0.873	0.839	0.862	5.4
1,3,5-Trimethylbenzene	2.230	2.653	2.395	2.388	2.207	2.375	7.5
2-Chlorotoluene	0.781	0.893	0.803	0.816	0.808	0.820	5.2
4-Chlorotoluene	0.815	0.898	0.792	0.818	0.774	0.819	5.8
tert-Butylbenzene	2.218	2.523	2.238	2.124	1.955	2.212	9.4
1,2,4-Trimethylbenzene	2.171	2.488	2.245	2.314	2.272	2.298	5.2
sec-Butylbenzene	3.531	3.945	3.553	3.168	2.883	3.416	11.9
4-Isopropyltoluene	2.580	2.921	2.684	2.455	2.274	2.583	9.4
n-Butylbenzene	2.306	2.672	2.448	2.106	1.876	2.282	13.4
1,2,4-Trichlorobenzene	0.752	0.597	0.526	0.634	0.655	0.633	13.1
Hexachlorobutadiene	0.612	0.544	0.482	0.320	0.306	0.453	30.0
Naphthalene	2.634	1.334	1.026	1.574	1.574	1.628	37.2
1,2,3-Trichlorobenzene	1.158	0.514	0.422	0.538	0.555	0.637	46.3
Acetone	0.197	0.147	0.108	0.168	0.149	0.154	21.3
Carbon Disulfide	0.455	0.586	0.772	0.689	0.595	0.619	19.2
2-Butanone	0.762	0.343	0.173	0.268	0.244	0.358	65.3
4-Methyl-2-Pentanone	1.062	1.490	1.182	1.862	1.772	1.474	23.9
2-Hexanone	0.734	1.026	0.809	1.360	1.268	1.039	26.4
Methyl tert-butyl ether	0.502	0.589	0.682	0.850	0.904	0.705	24.1
Isopropylbenzene	4.619	5.363	5.059	5.147	4.568	4.951	7.0
1,2-Dichloroethene (total)	0.226	0.270	0.230	0.272	0.268	0.253	9.0
Xylenes (total)	1.702	2.012	1.856	2.109	1.981	1.932	8.1
=====	=====	=====	=====	=====	=====	=====	=====
Dibromofluoromethane	0.314	0.205	0.207	0.230	0.234	0.238	18.8
1,2-Dichloroethane-d4	0.403	0.255	0.260	0.301	0.300	0.304	19.6
Toluene-d8	6.743	4.105	4.379	4.041	3.899	4.633	25.7
Bromofluorobenzene	2.397	1.447	1.534	1.581	1.568	1.705	22.9

* 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: hp5.i
 Lab File ID: 2A50802K.D
 Analysis Type: WATER

Injection Date: 02-AUG-2000 21:20
 Lab Sample ID: vstd5
 Method File: \\QPITPA02\D\chem\hp5.i\50802d.b

COMPOUND	%RSD
Xylenes (total)	8.1
1,2-Dichloroethene (total)	9.0
Dichlorodifluoromethane	12.2
Chloromethane	6.1
Vinyl Chloride	8.9
Bromomethane	22.5
Chloroethane	12.6
Trichlorofluoromethane	23.9
1,1-Dichloroethene	10.7
Acetone	21.3
Carbon Disulfide	19.2
Methylene Chloride	14.6
trans-1,2-Dichloroethene	7.7
Methyl tert-butyl ether	24.1
1,1-Dichloroethane	8.1
2,2-Dichloropropane	9.1
cis-1,2-dichloroethene	10.6
2-Butanone	65.3
Bromochloromethane	16.0
Chloroform	10.3
1,1,1-Trichloroethane	8.7
Dibromofluoromethane	18.8
Carbon Tetrachloride	9.3
1,1-Dichloropropene	8.3
1,2-Dichloroethane-d4	19.6
Benzene	8.6
1,2-Dichloroethane	13.9
Trichloroethene	6.9
1,2-Dichloropropane	11.2
Dibromomethane	16.8
Bromodichloromethane	15.6
cis-1,3-Dichloropropene	16.1
4-Methyl-2-Pentanone	23.9
Toluene-d8	25.7
Toluene	3.6
trans-1,3-Dichloropropene	15.2
1,1,2-Trichloroethane	10.9
Tetrachloroethene	7.3
1,3-Dichloropropane	11.7

672 876

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\2A50802K.D
 Report Date: 08/02/2000

INITIAL CALIBRATION REPORT

Instrument ID: hp5.i
 Lab File ID: 2A50802K.D
 Analysis Type: WATER

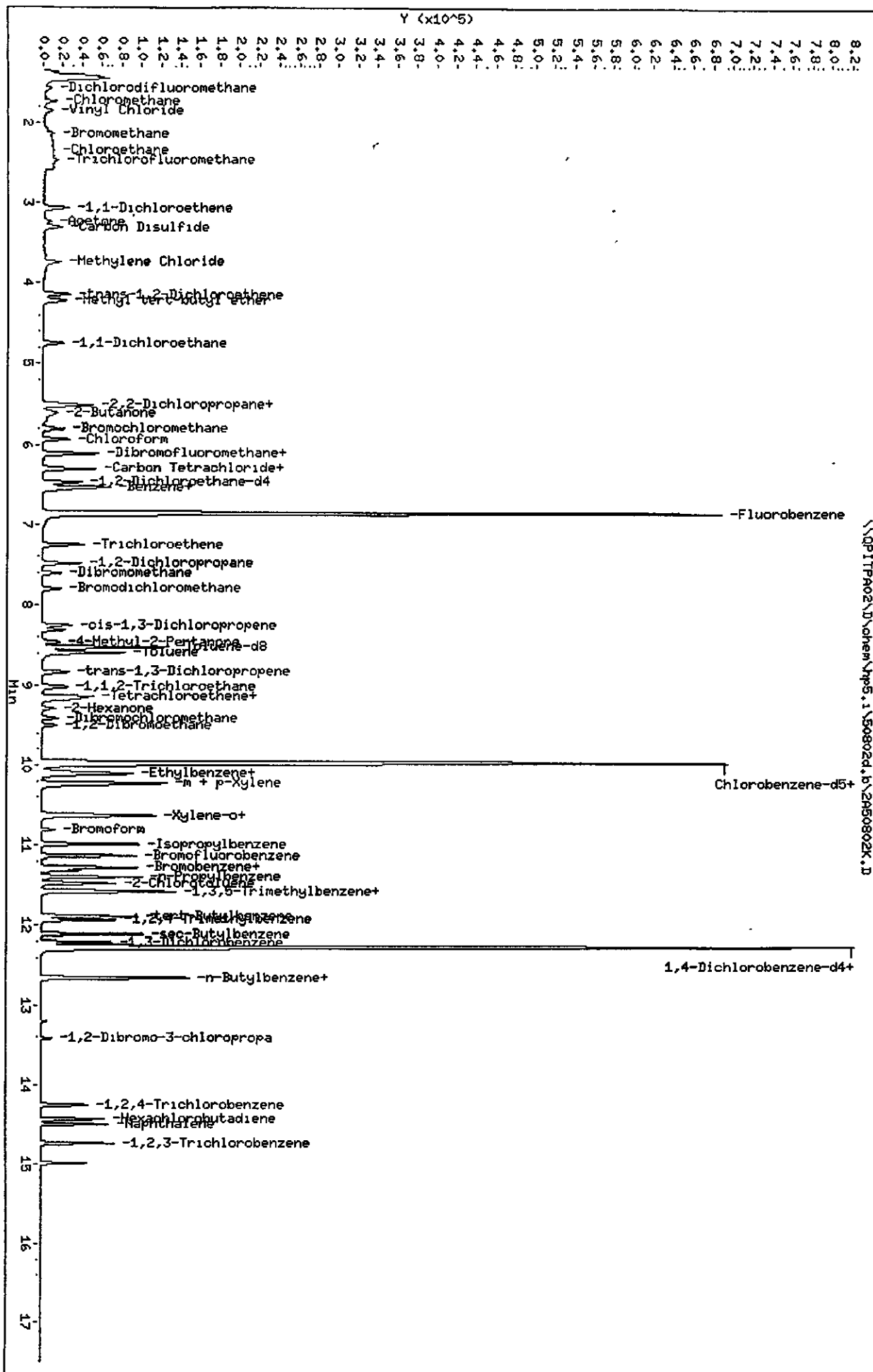
Injection Date: 02-AUG-2000 21:20
 Lab Sample ID: vstd5
 Method File: \\QPITPA02\D\chem\hp5.i\50802d.b

COMPOUND	%RSD
2-Hexanone	26.4
Dibromochloromethane	18.7
1,2-Dibromoethane	14.2
Chlorobenzene	4.3
1,1,1,2-Tetrachloroethane	10.4
Ethylbenzene	5.1
m + p-Xylene	4.6
Xylene-o	8.1
Styrene	10.0
Bromoform	26.9
Isopropylbenzene	7.0
Bromofluorobenzene	22.9
1,1,2,2-Tetrachloroethane	10.4
Bromobenzene	5.4
1,2,3-Trichloropropane	12.1
n-Propylbenzene	8.4
2-Chlorotoluene	5.2
1,3,5-Trimethylbenzene	7.5
4-Chlorotoluene	5.8
tert-Butylbenzene	9.4
1,2,4-Trimethylbenzene	5.2
sec-Butylbenzene	11.9
1,3-Dichlorobenzene	3.6
4-Isopropyltoluene	9.4
1,4-Dichlorobenzene	3.7
n-Butylbenzene	13.4
1,2-Dichlorobenzene	4.1
1,2-Dibromo-3-chloropropane	24.3
1,2,4-Trichlorobenzene	13.1
Hexachlorobutadiene	30.0
Naphthalene	37.2
1,2,3-Trichlorobenzene	46.3

The average of all %RSD's in the initial calibration is 14.0

Data File: \\QPIITPA02\N\chem\hp5.1\50802d.b\250802K.D
 Date: 02-AUG-2000 21:20
 Client ID: vstd5
 Sample Info: vstd5 5HL
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.1
 Operator: 034635
 Column diameter: 0.20



672 878

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\2A50802K.D

Page 1

Report Date: 02-Aug-2000 22:49

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\2A50802K.D
 Lab Smp Id: vstd5 Client Smp ID: vstd5
 Inj Date : 02-AUG-2000 21:20 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 034635 Inst ID: hp5.i
 Smp Info : vstd5 5ML
 Misc Info : vstd5,50802d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
 Meth Date : 02-Aug-2000 22:48 journetp Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 2 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-dwlist.sub
 Target Version: 4.04
 Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo*Vt

p11 8/2/00

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT	ON-COL
	MASS					(ng)	(ng)
* 46 Fluorobenzene	96	6.863	6.863	(1.000)	687073	250.000	
* 69 Chlorobenzene-d5	119	9.966	9.966	(1.000)	157933	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.272	12.272	(1.000)	210625	250.000	
\$ 39 Dibromofluoromethane	113	6.121	6.121	(0.892)	21609	25.0000	33.01
\$ 43 1,2-Dichloroethane-d4	65	6.480	6.480	(0.944)	27715	25.0000	33.16
\$ 59 Toluene-d8	98	8.524	8.524	(0.855)	106488	25.0000	36.38
\$ 80 Bromofluorobenzene	95	11.134	11.134	(1.117)	37858	25.0000	35.14
1 Dichlorodifluoromethane	85	1.577	1.577	(0.230)	12365	25.0000	24.91
2 Chloromethane	50	1.735	1.735	(0.253)	17929	25.0000	23.53
3 Vinyl Chloride	62	1.851	1.851	(0.270)	17788	25.0000	24.52
4 Bromomethane	94	2.137	2.137	(0.311)	3428	25.0000	33.89
5 Chloroethane	64	2.240	2.240	(0.326)	3139	25.0000	24.00
6 Trichlorofluoromethane	101	2.465	2.465	(0.359)	4400	25.0000	23.48
12 1,1-Dichloroethene	96	3.067	3.067	(0.447)	12104	25.0000	22.66
13 Acetone	43	3.232	3.232	(0.471)	13554	25.0000	32.08
15 Carbon Disulfide	76	3.305	3.305	(0.482)	31287	25.0000	18.38

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	====	==	=====	=====	=====	=====	=====
18 Methylene Chloride	84	3.743	3.743	(0.545)	13130	25.0000	19.74
19 trans-1,2-Dichloroethene	96	4.144	4.144	(0.604)	14780	25.0000	22.96
20 Methyl tert-butyl ether	73	4.223	4.223	(0.615)	34458	25.0000	17.77
24 1,1-Dichloroethane	63	4.746	4.746	(0.692)	27330	25.0000	22.42
27 2,2-Dichloropropane	77	5.501	5.501	(0.801)	20736	25.0000	21.77
28 cis-1,2-dichloroethene	96	5.519	5.519	(0.804)	16356	25.0000	21.82
31 2-Butanone	43	5.604	5.604	(0.817)	52392	25.0000	53.20
30 Bromochloromethane	128	5.805	5.805	(0.846)	6983	25.0000	20.55
37 Chloroform	83	5.933	5.933	(0.864)	24074	25.0000	21.98
38 1,1,1-Trichloroethane	97	6.115	6.115	(0.891)	20338	25.0000	21.92
41 Carbon Tetrachloride	117	6.304	6.304	(0.918)	16064	25.0000	21.78
40 1,1-Dichloropropene	75	6.310	6.310	(0.919)	16917	25.0000	22.34
42 Benzene	78	6.541	6.541	(0.953)	64620	25.0000	22.13
45 1,2-Dichloroethane	62	6.565	6.565	(0.957)	20623	25.0000	21.30
47 Trichloroethene	130	7.259	7.259	(1.058)	15438	25.0000	22.67
49 1,2-Dichloropropane	63	7.490	7.490	(1.091)	16660	25.0000	21.71
50 Dibromomethane	93	7.612	7.612	(1.109)	8888	25.0000	20.92
53 Bromodichloromethane	83	7.800	7.800	(1.136)	16507	25.0000	20.50
57 cis-1,3-Dichloropropene	75	8.257	8.257	(1.203)	21676	25.0000	20.15
58 4-Methyl-2-Pentanone	43	8.463	8.463	(0.849)	16780	25.0000	18.02
60 Toluene	91	8.591	8.591	(0.862)	75896	25.0000	24.17
61 trans-1,3-Dichloropropene	75	8.835	8.835	(0.886)	21475	25.0000	19.87
64 1,1,2-Trichloroethane	97	9.029	9.029	(0.906)	14660	25.0000	22.59
65 Tetrachloroethene	164	9.139	9.139	(0.917)	13323	25.0000	24.74
67 Dibromochloromethane	129	9.412	9.412	(0.944)	11404	25.0000	19.19
63 1,3-Dichloropropane	76	9.169	9.169	(0.920)	26724	25.0000	21.67
66 2-Hexanone	43	9.285	9.285	(0.932)	11592	25.0000	17.65
68 1,2-Dibromoethane	107	9.498	9.498	(0.953)	14069	25.0000	21.42
70 Chlorobenzene	112	9.996	9.996	(1.003)	48700	25.0000	23.99
72 Ethylbenzene	106	10.106	10.106	(1.014)	26166	25.0000	23.44
71 1,1,1,2-Tetrachloroethane	131	10.082	10.082	(1.012)	13304	25.0000	21.29
73 m + p-Xylene	106	10.228	10.228	(1.026)	60830	50.0000	47.75
74 Xylene-o	106	10.617	10.617	(1.065)	26874	25.0000	22.02
76 Styrene	104	10.635	10.635	(1.067)	43891	25.0000	21.27
77 Bromoform	173	10.806	10.806	(1.084)	6444	25.0000	17.22
78 Isopropylbenzene	105	10.988	10.988	(1.103)	72953	25.0000	23.32
79 Bromobenzene	156	11.280	11.280	(0.919)	17681	25.0000	24.33
83 1,1,2,2-Tetrachloroethane	83	11.274	11.274	(0.919)	19405	25.0000	23.06
84 1,2,3-Trichloropropane	110	11.310	11.310	(0.922)	6004	25.0000	22.50
81 n-Propylbenzene	120	11.390	11.390	(0.928)	18623	25.0000	24.17
82 2-Chlorotoluene	126	11.475	11.475	(0.935)	16447	25.0000	23.80
86 1,3,5-Trimethylbenzene	105	11.566	11.566	(0.942)	46969	25.0000	23.48
85 4-Chlorotoluene	126	11.578	11.578	(0.943)	17158	25.0000	24.85
87 tert-Butylbenzene	119	11.888	11.888	(0.969)	46716	25.0000	25.07
88 1,2,4-Trimethylbenzene	105	11.937	11.937	(0.973)	45721	25.0000	23.62
89 sec-Butylbenzene	105	12.107	12.107	(0.987)	74375	25.0000	25.84
91 1,3-Dichlorobenzene	146	12.211	12.211	(0.995)	32379	25.0000	25.15

672 880

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\2A50802K.D

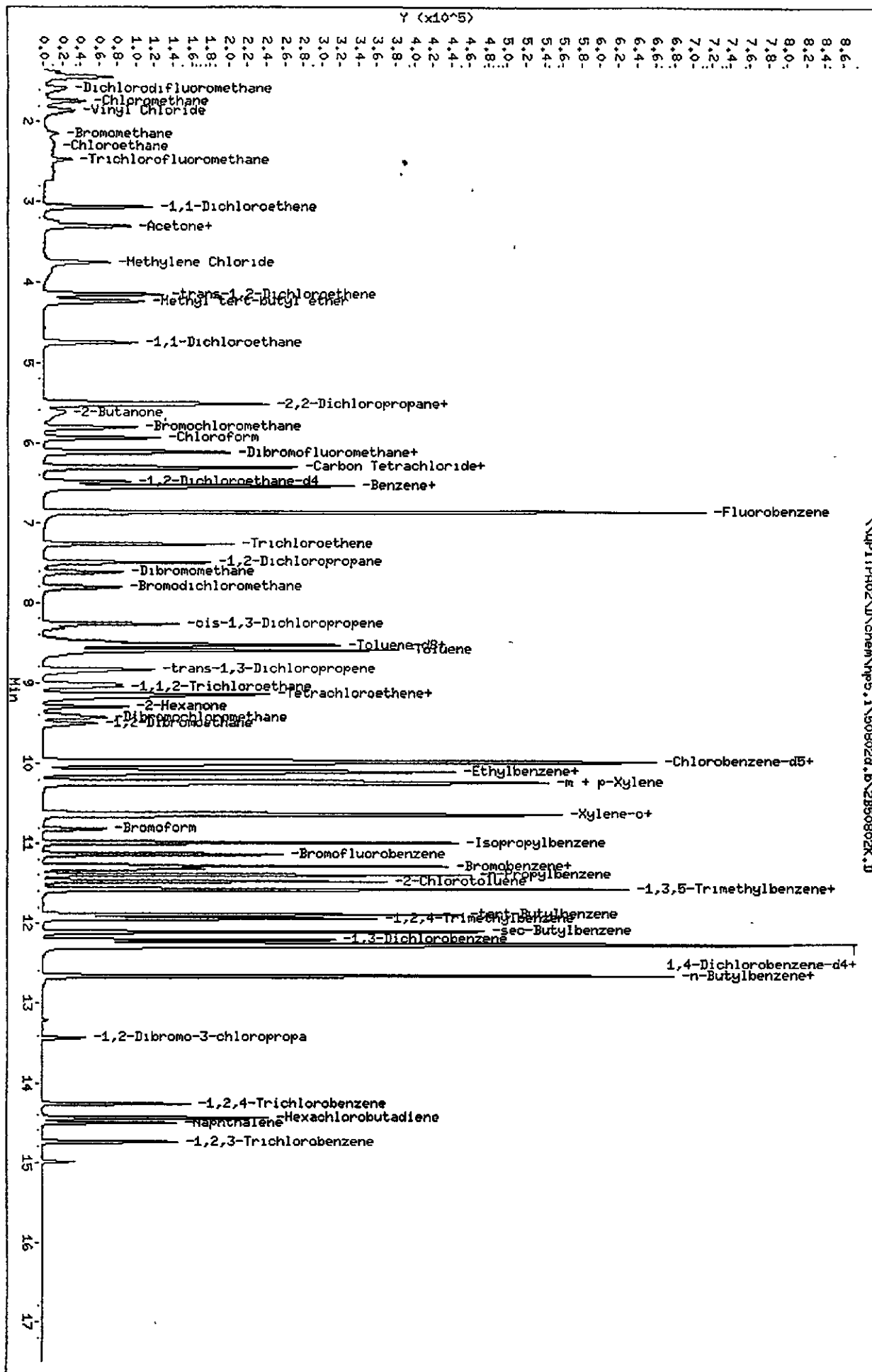
Page 3

Report Date: 02-Aug-2000 22:49

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)	
=====	====	==	=====	=====	=====	=====	=====	
90 4-Isopropyltoluene	119	12.253	12.253	(0.999)	54348	25.0000	24.98	
93 1,4-Dichlorobenzene	146	12.296	12.296	(1.002)	32914	25.0000	25.18	
94 n-Butylbenzene	91	12.655	12.655	(1.031)	48569	25.0000	25.26	
95 1,2-Dichlorobenzene	146	12.661	12.661	(1.032)	30767	25.0000	25.14	
96 1,2-Dibromo-3-chloropropane	157	13.428	13.428	(1.094)	2741	25.0000	20.14	
97 1,2,4-Trichlorobenzene	180	14.261	14.261	(1.162)	15831	25.0000	29.70	
98 Hexachlorobutadiene	225	14.443	14.443	(1.177)	12896	25.0000	33.78	
99 Naphthalene	128	14.504	14.504	(1.182)	55482	25.0000	40.44	
100 1,2,3-Trichlorobenzene	180	14.748	14.748	(1.202)	24382	25.0000	45.40	
M 29 1,2-Dichloroethene (total)	96				31136	50.0000	44.70	
M 75 Xylenes (total)	106				87704	25.0000	71.86	

Data File: \\QPIITPA02\chem\hp5.1\50802d.b\2B50802K.D
 Date: 02-DEC-2000 21:47
 Client ID: vstd20
 Sample Info: vstd20 5ML
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.1
 Operator: 034635
 Column diameter: 0.20



672 882

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\2B50802K.D
Report Date: 02-Aug-2000 22:07

Page 1

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\2B50802K.D
 Lab Smp Id: vstd20 Client Smp ID: vstd20
 Inj Date : 02-AUG-2000 21:47 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 034635 Inst ID: hp5.i
 Smp Info : vstd20 5ML
 Misc Info : vstd20,50802d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
 Meth Date : 02-Aug-2000 22:07 journetp Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:47 Cal File: 2B50802K.D
 Als bottle: 3 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-dwlist.sub
 Target Version: 4.04
 Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo*Vt

pu 8/2/00

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.867	6.867	(1.000)	698002	250.000	
* 69 Chlorobenzene-d5	119	9.975	9.975	(1.000)	161574	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.275	12.275	(1.000)	211681	250.000	
\$ 39 Dibromofluoromethane	113	6.125	6.125	(0.892)	57211	100.000	86.03
\$ 43 1,2-Dichloroethane-d4	65	6.483	6.483	(0.944)	71317	100.000	83.99
\$ 59 Toluene-d8	98	8.528	8.528	(0.855)	265317	100.000	88.60
\$ 80 Bromofluorobenzene	95	11.137	11.137	(1.116)	93538	100.000	84.86
1 Dichlorodifluoromethane	85	1.592	1.592	(0.232)	55421	100.000	109.9
2 Chloromethane	50	1.738	1.738	(0.253)	82302	100.000	106.3
3 Vinyl Chloride	62	1.860	1.860	(0.271)	81070	100.000	110.0
4 Bromomethane	94	2.146	2.146	(0.313)	10187	100.000	99.14
5 Chloroethane	64	2.274	2.274	(0.331)	12868	100.000	96.85
6 Trichlorofluoromethane	101	2.474	2.474	(0.360)	20188	100.000	106.0
12 1,1-Dichloroethene	96	3.065	3.065	(0.446)	60558	100.000	111.6
13 Acetone	43	3.241	3.241	(0.472)	41036	100.000	95.61
15 Carbon Disulfide	76	3.302	3.302	(0.481)	163761	100.000	94.67

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.746	3.746	(0.546)	67084	100.000	99.29
19 trans-1,2-Dichloroethene	96	4.147	4.147	(0.604)	71236	100.000	108.9
20 Methyl tert-butyl ether	73	4.233	4.233	(0.616)	164574	100.000	83.54
24 1,1-Dichloroethane	63	4.756	4.756	(0.693)	130791	100.000	105.6
27 2,2-Dichloropropane	77	5.510	5.510	(0.802)	104841	100.000	108.4
28 cis-1,2-dichloroethene	96	5.522	5.522	(0.804)	79538	100.000	104.5
31 2-Butanone	43	5.614	5.614	(0.818)	95899	100.000	95.85
30 Bromochloromethane	128	5.808	5.808	(0.846)	33835	100.000	98.00
37 Chloroform	83	5.942	5.942	(0.865)	113103	100.000	101.6
38 1,1,1-Trichloroethane	97	6.112	6.112	(0.890)	101784	100.000	108.0
41 Carbon Tetrachloride	117	6.307	6.307	(0.918)	81944	100.000	109.4
40 1,1-Dichloropropene	75	6.313	6.313	(0.919)	84476	100.000	109.8
42 Benzene	78	6.538	6.538	(0.952)	311636	100.000	105.0
45 1,2-Dichloroethane	62	6.569	6.569	(0.957)	94592	100.000	96.19
47 Trichloroethene	130	7.262	7.262	(1.058)	72516	100.000	104.8
49 1,2-Dichloropropane	63	7.493	7.493	(1.091)	76451	100.000	98.05
50 Dibromomethane	93	7.615	7.615	(1.109)	40139	100.000	93.01
53 Bromodichloromethane	83	7.804	7.804	(1.136)	76185	100.000	93.13
57 cis-1,3-Dichloropropene	75	8.260	8.260	(1.203)	103293	100.000	94.51
58 4-Methyl-2-Pentanone	43	8.491	8.491	(0.851)	96287	100.000	101.1
60 Toluene	91	8.594	8.594	(0.862)	335539	100.000	104.4
61 trans-1,3-Dichloropropene	75	8.832	8.832	(0.885)	107465	100.000	97.20
64 1,1,2-Trichloroethane	97	9.039	9.039	(0.906)	64253	100.000	96.78
65 Tetrachloroethene	164	9.142	9.142	(0.916)	59391	100.000	107.8
67 Dibromochloromethane	129	9.428	9.428	(0.945)	57018	100.000	93.79
63 1,3-Dichloropropane	76	9.172	9.172	(0.920)	122108	100.000	96.79
66 2-Hexanone	43	9.300	9.300	(0.932)	66302	100.000	98.70
68 1,2-Dibromoethane	107	9.495	9.495	(0.952)	64011	100.000	95.26
70 Chlorobenzene	112	10.006	10.006	(1.003)	216100	100.000	104.0
72 Ethylbenzene	106	10.109	10.109	(1.013)	121510	100.000	106.4
71 1,1,1,2-Tetrachloroethane	131	10.097	10.097	(1.012)	63793	100.000	99.80
73 m + p-Xylene	106	10.231	10.231	(1.026)	275041	200.000	211.0
74 Xylene-o	106	10.626	10.626	(1.065)	130035	100.000	104.1
76 Styrene	104	10.645	10.645	(1.067)	213585	100.000	101.2
77 Bromoform	173	10.815	10.815	(1.084)	32886	100.000	85.88
78 Isopropylbenzene	105	10.991	10.991	(1.102)	346609	100.000	108.3
79 Bromobenzene	156	11.283	11.283	(0.919)	79496	100.000	108.9
83 1,1,1,2-Tetrachloroethane	83	11.283	11.283	(0.919)	83410	100.000	98.64
84 1,2,3-Trichloropropane	110	11.320	11.320	(0.922)	26087	100.000	97.26
81 n-Propylbenzene	120	11.393	11.393	(0.928)	88410	100.000	114.2
82 2-Chlorotoluene	126	11.478	11.478	(0.935)	75639	100.000	108.9
86 1,3,5-Trimethylbenzene	105	11.569	11.569	(0.943)	224604	100.000	111.7
85 4-Chlorotoluene	126	11.581	11.581	(0.944)	76082	100.000	109.6
87 tert-Butylbenzene	119	11.892	11.892	(0.969)	213615	100.000	114.1
88 1,2,4-Trimethylbenzene	105	11.940	11.940	(0.973)	210714	100.000	108.3
89 sec-Butylbenzene	105	12.105	12.105	(0.986)	334061	100.000	115.5
91 1,3-Dichlorobenzene	146	12.214	12.214	(0.995)	135346	100.000	104.6

672 884

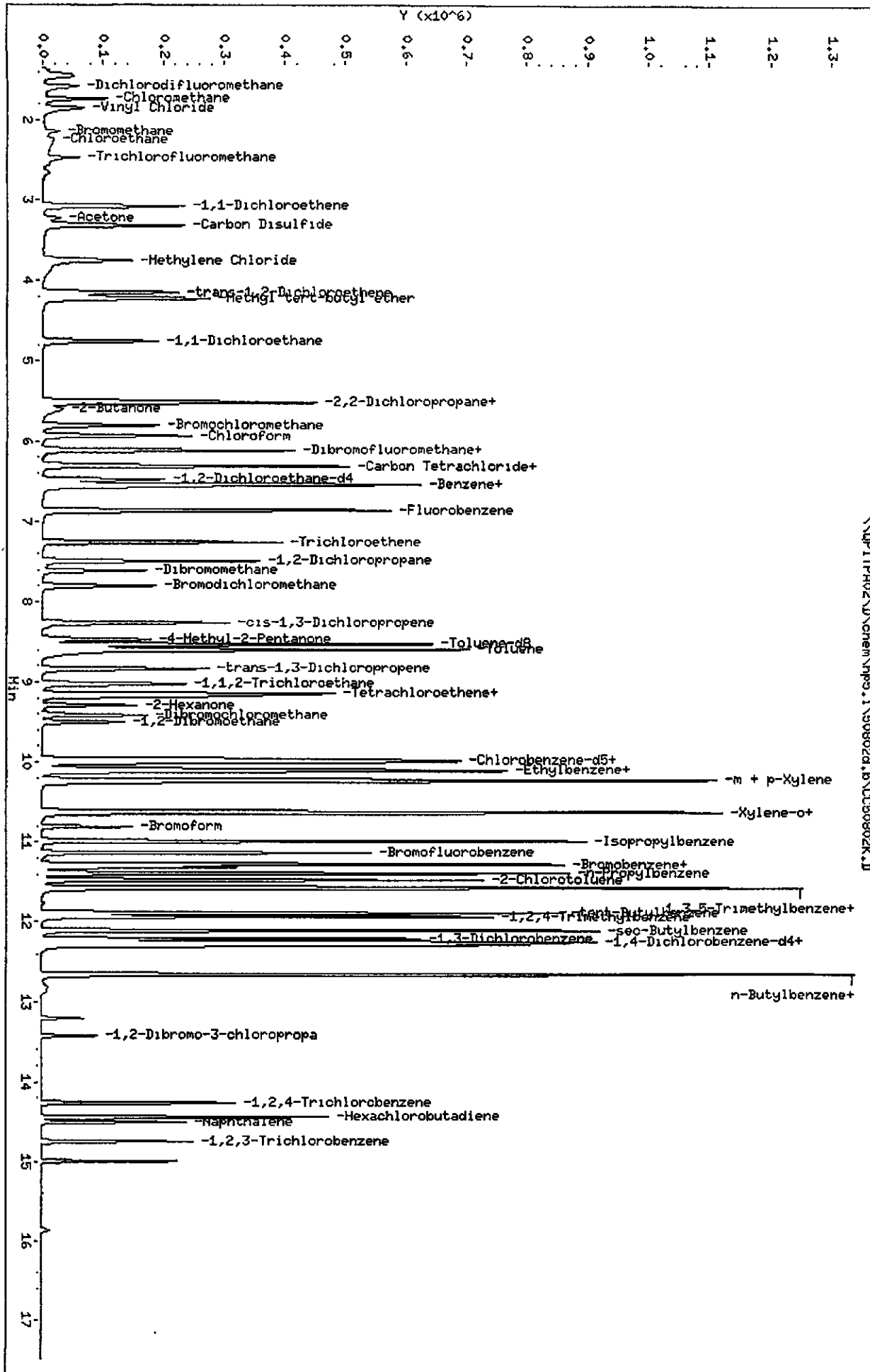
Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\2B50802K.D
 Report Date: 02-Aug-2000 22:07

Page 3

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
-----	----	==	-----	-----	-----	-----	-----
90 4-Isopropyltoluene	119	12.251	12.251	(0.998)	247366	100.000	113.1
93 1,4-Dichlorobenzene	146	12.299	12.299	(1.002)	135382	100.000	103.0
94 n-Butylbenzene	91	12.658	12.658	(1.031)	226282	100.000	117.1
95 1,2-Dichlorobenzene	146	12.664	12.664	(1.032)	128178	100.000	104.2
96 1,2-Dibromo-3-chloropropane	157	13.431	13.431	(1.094)	11885	100.000	86.90
97 1,2,4-Trichlorobenzene	180	14.264	14.264	(1.162)	50587	100.000	94.43
98 Hexachlorobutadiene	225	14.441	14.441	(1.176)	46110	100.000	120.2
99 Naphthalene	128	14.501	14.501	(1.181)	112957	100.000	81.91
100 1,2,3-Trichlorobenzene	180	14.745	14.745	(1.201)	43562	100.000	80.71
M 29 1,2-Dichloroethene (total)	96				150774	200.000	213.0
M 75 Xylenes (total)	106				405076	100.000	324.4

Data File: \\QIP1P402\chem\hp5.1\50802d.b\CCS0802K.D
 Date : 02-AUG-2000 13:38
 Client ID: vsyd50
 Sample Info: vsyd50 5ML
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.1
 Operator: 034635
 Column diameter: 0.20



672 886

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\CC50802K.D
Report Date: 02-Aug-2000 20:59

Page 1

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\CC50802K.D
 Lab Smp Id: vstd50 Client Smp ID: vsyd50
 Inj Date : 02-AUG-2000 13:38 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 034635 Inst ID: hp5.i
 Smp Info : vstd50 5ML
 Misc Info : vstd50,50802d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
 Meth Date : 02-Aug-2000 20:58 journetp Quant Type: ISTD
 Cal Date : 02-AUG-2000 13:38 Cal File: CC50802K.D
 Als bottle: 2 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-dwlist.sub
 Target Version: 4.04
 Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.869	6.869	(1.000)	570388	250.000	
* 69 Chlorobenzene-d5	119	9.972	9.972	(1.000)	129893	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.271	12.271	(1.000)	181026	250.000	
\$ 39 Dibromofluoromethane	113	6.121	6.121	(0.891)	117962	250.000	250.0
\$ 43 1,2-Dichloroethane-d4	65	6.480	6.480	(0.943)	148281	250.000	250.0
\$ 59 Toluene-d8	98	8.524	8.524	(0.855)	568822	250.000	250.0
\$ 80 Bromofluorobenzene	95	11.134	11.134	(1.117)	199246	250.000	250.0
1 Dichlorodifluoromethane	85	1.570	1.570	(0.229)	105289	250.000	250.0
2 Chloromethane	50	1.729	1.729	(0.252)	148897	250.000	250.0
3 Vinyl Chloride	62	1.844	1.844	(0.269)	147428	250.000	250.0
4 Bromomethane	94	2.136	2.136	(0.311)	17517	250.000	250.0
5 Chloroethane	64	2.240	2.240	(0.326)	31215	250.000	250.0
6 Trichlorofluoromethane	101	2.471	2.471	(0.360)	48624	250.000	250.0
12 1,1-Dichloroethene	96	3.073	3.073	(0.447)	113629	250.000	250.0
13 Acetone	43	3.225	3.225	(0.470)	61510	250.000	250.0
15 Carbon Disulfide	76	3.310	3.310	(0.482)	440078	250.000	250.0

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.742	3.742	(0.545)	130580	250.000	250.0
19 trans-1,2-Dichloroethene	96	4.150	4.150	(0.604)	122948	250.000	250.0
20 Methyl tert-butyl ether	73	4.217	4.217	(0.614)	389305	250.000	250.0
24 1,1-Dichloroethane	63	4.752	4.752	(0.692)	237305	250.000	250.0
27 2,2-Dichloropropane	77	5.506	5.506	(0.802)	187509	250.000	250.0
28 cis-1,2-dichloroethene	96	5.519	5.519	(0.803)	140023	250.000	250.0
31 2-Butanone	43	5.592	5.592	(0.814)	98604	250.000	250.0
30 Bromochloromethane	128	5.805	5.805	(0.845)	61479	250.000	250.0
37 Chloroform	83	5.932	5.932	(0.864)	206800	250.000	250.0
38 1,1,1-Trichloroethane	97	6.115	6.115	(0.890)	184054	250.000	250.0
41 Carbon Tetrachloride	117	6.303	6.303	(0.918)	147650	250.000	250.0
40 1,1-Dichloropropene	75	6.309	6.309	(0.919)	151377	250.000	250.0
42 Benzene	78	6.541	6.541	(0.952)	563383	250.000	250.0
45 1,2-Dichloroethane	62	6.565	6.565	(0.956)	179985	250.000	250.0
47 Trichloroethene	130	7.265	7.265	(1.058)	133551	250.000	250.0
49 1,2-Dichloropropane	63	7.490	7.490	(1.090)	146938	250.000	250.0
50 Dibromomethane	93	7.611	7.611	(1.108)	76981	250.000	250.0
53 Bromodichloromethane	83	7.800	7.800	(1.135)	153917	250.000	250.0
57 cis-1,3-Dichloropropene	75	8.262	8.262	(1.203)	204710	250.000	250.0
58 4-Methyl-2-Pentanone	43	8.469	8.469	(0.849)	153535	250.000	250.0
60 Toluene	91	8.591	8.591	(0.862)	651330	250.000	250.0
61 trans-1,3-Dichloropropene	75	8.828	8.828	(0.885)	207421	250.000	250.0
64 1,1,2-Trichloroethane	97	9.029	9.029	(0.905)	119781	250.000	250.0
65 Tetrachloroethene	164	9.138	9.138	(0.916)	115649	250.000	250.0
67 Dibromochloromethane	129	9.412	9.412	(0.944)	111124	250.000	250.0
63 1,3-Dichloropropene	76	9.169	9.169	(0.919)	233843	250.000	250.0
66 2-Hexanone	43	9.284	9.284	(0.931)	105074	250.000	250.0
68 1,2-Dibromoethane	107	9.497	9.497	(0.952)	120031	250.000	250.0
70 Chlorobenzene	112	10.002	10.002	(1.003)	395524	250.000	250.0
72 Ethylbenzene	106	10.112	10.112	(1.014)	224695	250.000	250.0
71 1,1,1,2-Tetrachloroethane	131	10.087	10.087	(1.012)	122838	250.000	250.0
73 m + p-Xylene	106	10.227	10.227	(1.026)	507137	500.000	500.0
74 Xylene-o	106	10.623	10.623	(1.065)	241036	250.000	250.0
76 Styrene	104	10.635	10.635	(1.066)	411700	250.000	250.0
77 Bromoform	173	10.811	10.811	(1.084)	68351	250.000	250.0
78 Isopropylbenzene	105	10.988	10.988	(1.102)	657185	250.000	250.0
79 Bromobenzene	156	11.280	11.280	(0.919)	148763	250.000	250.0
83 1,1,2,2-Tetrachloroethane	83	11.280	11.280	(0.919)	160831	250.000	250.0
84 1,2,3-Trichloropropane	110	11.316	11.316	(0.922)	50187	250.000	250.0
81 n-Propylbenzene	120	11.395	11.395	(0.929)	164882	250.000	250.0
82 2-Chlorotoluene	126	11.474	11.474	(0.935)	145382	250.000	250.0
86 1,3,5-Trimethylbenzene	105	11.572	11.572	(0.943)	433522	250.000	250.0
85 4-Chlorotoluene	126	11.578	11.578	(0.943)	143371	250.000	250.0
87 tert-Butylbenzene	119	11.888	11.888	(0.969)	405047	250.000	250.0
88 1,2,4-Trimethylbenzene	105	11.937	11.937	(0.973)	406389	250.000	250.0
89 sec-Butylbenzene	105	12.107	12.107	(0.987)	643172	250.000	250.0
91 1,3-Dichlorobenzene	146	12.210	12.210	(0.995)	261521	250.000	250.0

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Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\CC50802K.D

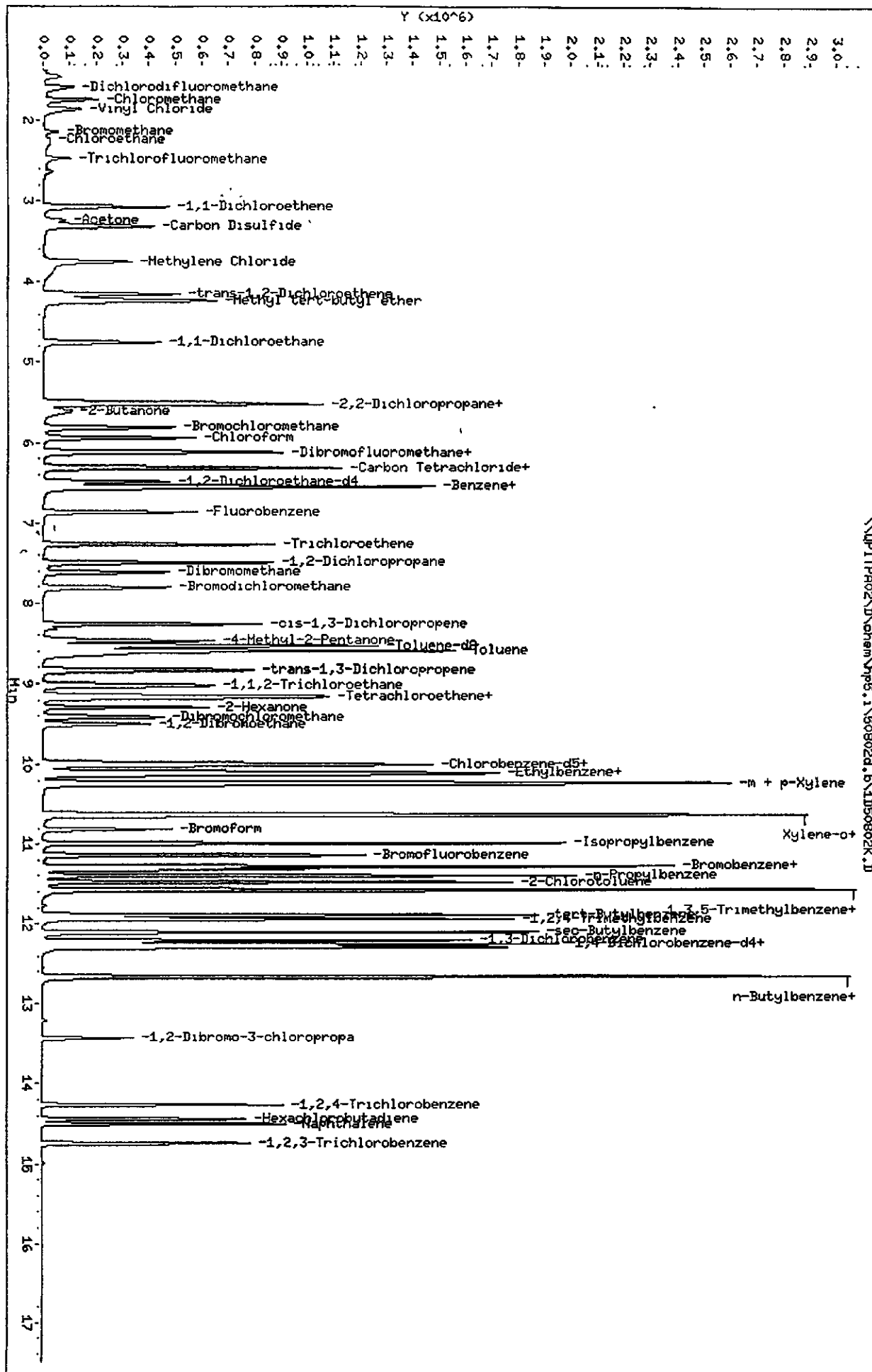
Page 3

Report Date: 02-Aug-2000 20:59

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
*****	****	==	=====	=====	=====		=====	=====
90 4-Isopropyltoluene	119	12 253	12 253	(0 999)	485794		250 000	250.0
93 1,4-Dichlorobenzene	146	12 296	12.296	(1.002)	263101		250 000	250.0
94 n-Butylbenzene	91	12 655	12 655	(1.031)	443246		250 000	250.0
95 1,2-Dichlorobenzene	146	12 667	12.667	(1 032)	248227		250 000	250 0
96 1,2-Dibromo-3-chloropropane	157	13 427	13 427	(1 094)	23282		250 000	250 0
97 1,2,4-Trichlorobenzene	180	14 261	14 261	(1 162)	95174		250.000	250 0
98 Hexachlorobutadiene	225	14 443	14 443	(1 177)	87330		250.000	250 0
99 Naphthalene	128	14 504	14 504	(1 182)	185770		250.000	250 0
100 1,2,3-Trichlorobenzene	180	14 747	14 747	(1 202)	76383		250.000	250 0
M 29 1,2-Dichloroethene (total)	96				262971		500.000	500 0
M 75 Xylenes (total)	106				748174		250.000	776 0

Data File: \\QPI1P002\\D\\chem\\hp5.1\\508024.b\\1D50802K.D
 Date : 02-AUG-2000 20:14
 Client ID: vstd100
 Sample Info: vstd100 EHL
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.1
 Operator: 034635
 Column diameter: 0.20



672 890

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\1D50802K.D
Report Date: 02-Aug-2000 21:01

Page 1

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\1D50802K.D
 Lab Smp Id: vstd100 Client Smp ID: vstd100
 Inj Date : 02-AUG-2000 20:14 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 034635 Inst ID: hp5.i
 Smp Info : vstd100 5ML
 Misc Info : vstd100,50802d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
 Meth Date : 02-Aug-2000 21:01 journetp Quant Type: ISTD
 Cal Date : 02-AUG-2000 20:14 Cal File: 1D50802K.D
 Als bottle: 4 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-dwlist.sub
 Target Version: 4.04
 Processing Host: PITPC076

Concentration Formula: Amt * DF * 1/Vo*Vt

p/1 8/21^h

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

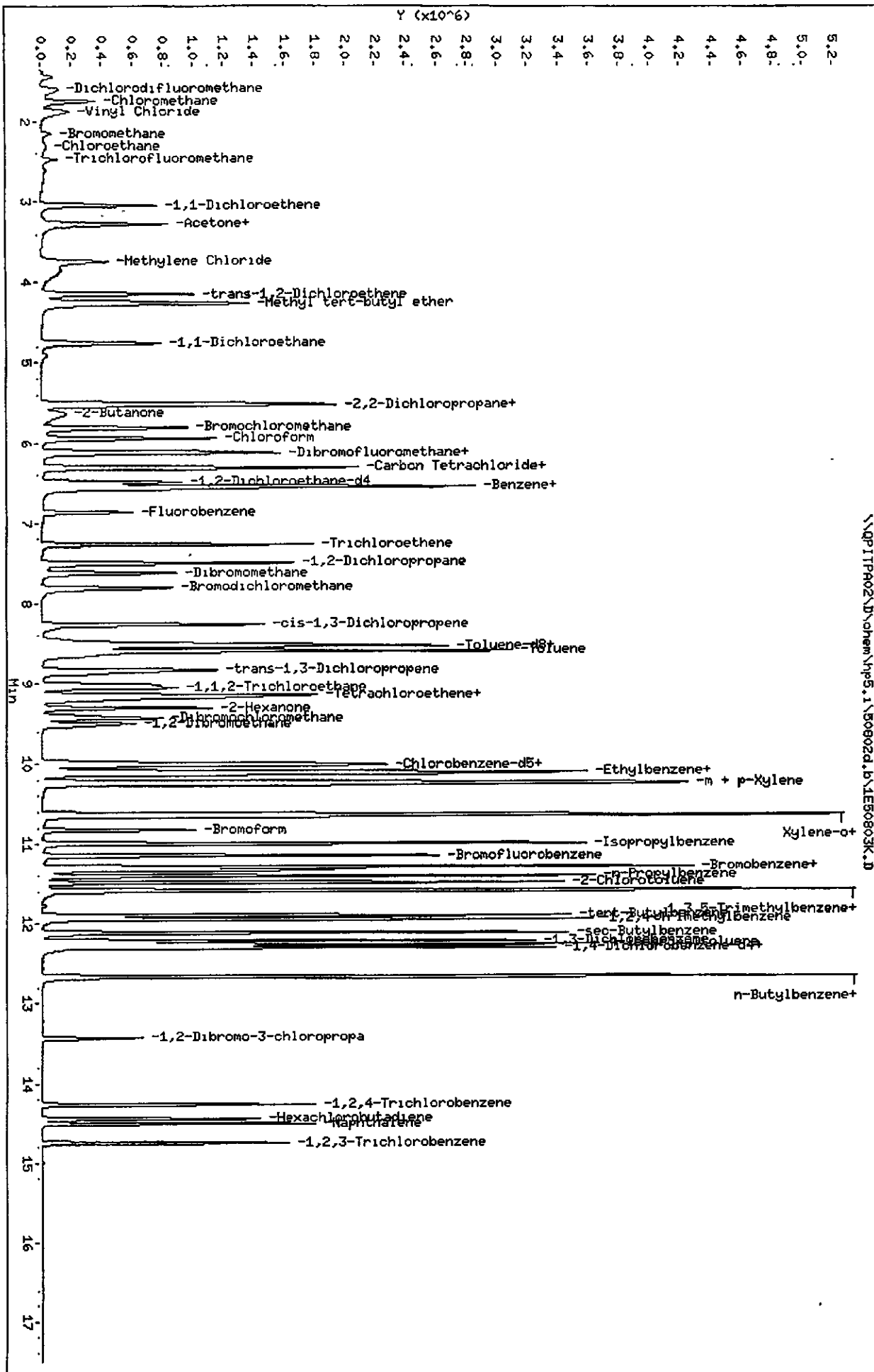
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.867	6.867 (1.000)	570722	250.000		
* 69 Chlorobenzene-d5	119	9.976	9.976 (1.000)	146582	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.276	12.276 (1.000)	218584	250.000		
\$ 39 Dibromofluoromethane	113	6.125	6.125 (0.892)	262664	500.000	505.9	
\$ 43 1,2-Dichloroethane-d4	65	6.484	6.484 (0.944)	343888	500.000	503.0	
\$ 59 Toluene-d8	98	8.534	8.534 (0.855)	1184662	500.000	459.4	
\$ 80 Bromofluorobenzene	95	11.138	11.138 (1.116)	463558	500.000	496.1	
1 Dichlorodifluoromethane	85	1.581	1.581 (0.230)	224016	500.000	502.6	
2 Chloromethane	50	1.739	1.739 (0.253)	336806	500.000	510.5	
3 Vinyl Chloride	62	1.855	1.855 (0.270)	321536	500.000	510.8	
4 Bromomethane	94	2.141	2.141 (0.312)	43437	500.000	501.8	
5 Chloroethane	64	2.238	2.238 (0.326)	59428	500.000	462.7	
6 Trichlorofluoromethane	101	2.475	2.475 (0.360)	87672	500.000	170.7	
12 1,1-Dichloroethene	96	3.071	3.071 (0.447)	239887	500.000	501.1	
13 Acetone	43	3.236	3.236 (0.471)	191463	500.000	488.0	
15 Carbon Disulfide	76	3.309	3.309 (0.482)	786475	500.000	472.4	

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
18 Methylene Chloride	84	3.747	3.747	(0.546)	319075	500.000	542.0
19 trans-1,2-Dichloroethene	96	4.154	4.154	(0.605)	279203	500.000	520.5
20 Methyl tert-butyl ether	73	4.233	4.233	(0.616)	970330	500.000	547.7
24 1,1-Dichloroethane	63	4.756	4.756	(0.693)	552017	500.000	519.1
27 2,2-Dichloropropane	77	5.511	5.511	(0.802)	427004	500.000	532.7
28 cis-1,2-dichloroethene	96	5.523	5.523	(0.804)	342636	500.000	541.7
31 2-Butanone	43	5.608	5.608	(0.817)	306326	500.000	471.3
30 Bromochloromethane	128	5.809	5.809	(0.846)	162299	500.000	557.1
37 Chloroform	83	5.937	5.937	(0.864)	497815	500.000	530.0
38 1,1,1-Trichloroethane	97	6.119	6.119	(0.891)	416583	500.000	526.8
41 Carbon Tetrachloride	117	6.308	6.308	(0.919)	333315	500.000	535.2
40 1,1-Dichloropropene	75	6.314	6.314	(0.919)	336156	500.000	533.0
42 Benzene	78	6.545	6.545	(0.953)	1304308	500.000	525.7
45 1,2-Dichloroethane	62	6.569	6.569	(0.957)	469146	500.000	550.9
47 Trichloroethene	130	7.269	7.269	(1.058)	300367	500.000	521.6
49 1,2-Dichloropropane	63	7.494	7.494	(1.091)	358281	500.000	548.2
50 Dibromomethane	93	7.616	7.616	(1.109)	211356	500.000	578.0
53 Bromodichloromethane	83	7.804	7.804	(1.136)	392085	500.000	589.9
57 cis-1,3-Dichloropropene	75	8.261	8.261	(1.203)	528648	500.000	611.0
58 4-Methyl-2-Pentanone	43	8.473	8.473	(0.849)	545975	500.000	594.8
60 Toluene	91	8.595	8.595	(0.862)	1488525	500.000	493.8
61 trans-1,3-Dichloropropene	75	8.832	8.832	(0.885)	578506	500.000	571.6
64 1,1,2-Trichloroethane	97	9.021	9.021	(0.904)	337205	500.000	535.1
65 Tetrachloroethene	164	9.143	9.143	(0.916)	250091	500.000	483.4
67 Dibromochloromethane	129	9.416	9.416	(0.944)	326055	500.000	577.8
63 1,3-Dichloropropane	76	9.173	9.173	(0.920)	651695	500.000	549.9
66 2-Hexanone	43	9.289	9.289	(0.931)	398644	500.000	645.4
68 1,2-Dibromoethane	107	9.502	9.502	(0.952)	354797	500.000	569.8
70 Chlorobenzene	112	10.007	10.007	(1.003)	974066	500.000	506.3
72 Ethylbenzene	106	10.116	10.116	(1.014)	539176	500.000	520.0
71 1,1,1,2-Tetrachloroethane	131	10.092	10.092	(1.012)	320711	500.000	537.1
73 m + p-Xylene	106	10.232	10.232	(1.026)	1233624	1000.00	1037
74 Xylene-o	106	10.621	10.621	(1.065)	618270	500.000	541.5
76 Styrene	104	10.639	10.639	(1.066)	1071843	500.000	557.1
77 Bromoform	173	10.810	10.810	(1.084)	223415	500.000	621.8
78 Isopropylbenzene	105	10.986	10.986	(1.101)	1508889	500.000	522.2
79 Bromobenzene	156	11.278	11.278	(0.919)	381862	500.000	497.5
83 1,1,2,2-Tetrachloroethane	83	11.278	11.278	(0.919)	501781	500.000	530.0
84 1,2,3-Trichloropropane	110	11.314	11.314	(0.922)	157715	500.000	529.8
81 n-Propylbenzene	120	11.394	11.394	(0.928)	389368	500.000	503.3
82 2-Chlorotoluene	126	11.473	11.473	(0.935)	356543	500.000	499.5
86 1,3,5-Trimethylbenzene	105	11.570	11.570	(0.943)	1044090	500.000	513.5
85 4-Chlorotoluene	126	11.582	11.582	(0.944)	357535	500.000	499.0
87 tert-Butylbenzene	119	11.892	11.892	(0.969)	928481	500.000	503.3
88 1,2,4-Trimethylbenzene	105	11.935	11.935	(0.972)	1011500	500.000	519.3
89 sec-Butylbenzene	105	12.105	12.105	(0.986)	1384852	500.000	491.6
91 1,3-Dichlorobenzene	146	12.209	12.209	(0.995)	669672	500.000	503.9

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	==	=====	=====	=====		=====	=====
90 4-Isopropyltoluene	119	12.251	12 251	(0.998)	1073287		500.000	503 5
93 1,4-Dichlorobenzene	146	12.300	12 300	(1.002)	691021		500.000	506.0
94 n-Butylbenzene	91	12.659	12 659	(1.031)	920747		500.000	510.3
95 1,2-Dichlorobenzene	146	12.665	12 665	(1.032)	657247		500.000	508.9
96 1,2-Dibromo-3-chloropropane	157	13.431	13.431	(1.094)	89468		500.000	645 9
97 1,2,4-Trichlorobenzene	180	14.265	14.265	(1.162)	276982		500.000	571 0
98 Hexachlorobutadiene	225	14.441	14.441	(1.176)	140103		500.000	448 5
99 Naphthalene	128	14.502	14.502	(1.181)	688231		500.000	659 8
100 1,2,3-Trichlorobenzene	180	14.746	14.746	(1.201)	235110		500.000	585 4
M 29 1,2-Dichloroethene (total)	96				621839		1000.00	1064
M 75 Xylenes (total)	106				1851894		500.000	1622

Data File: \\QPIITPA02\chem\hp5.1\50802d.b\LE50803K.D
 Date: 02-AUG-2000 20:41
 Client ID: vstd200
 Sample Info: vstd200 5HL
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.1
 Operator: 034635
 Column diameter: 0.20



672 894

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\1E50803K.D
Report Date: 02-Aug-2000 21:13

Page 1

STL Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\QPITPA02\D\chem\hp5.i\50802d.b\1E50803K.D
 Lab Smp Id: vstd200 Client Smp ID: vstd200
 Inj Date : 02-AUG-2000 20:41 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 034635 Inst ID: hp5.i
 Smp Info : vstd200 5ML
 Misc Info : vstd200,50802d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50802d.b\8260bh2o.m
 Meth Date : 02-Aug-2000 21:13 journetp Quant Type: ISTD
 Cal Date : 02-AUG-2000 20:41 Cal File: 1E50803K.D
 Als bottle: 5 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-dwlist.sub
 Target Version: 4.04
 Processing Host: PITPC076

p/1 8/2/10

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.867	6.867	(1.000)	603853	250.000	
* 69 Chlorobenzene-d5	119	9.988	9.988	(1.000)	150029	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.281	12.281	(1.000)	214236	250.000	
\$ 39 Dibromofluoromethane	113	6.131	6.131	(0.893)	566586	1000.00	1025
\$ 43 1,2-Dichloroethane-d4	65	6.490	6.490	(0.945)	725774	1000.00	1003
\$ 59 Toluene-d8	98	8.528	8.528	(0.854)	2340102	1000.00	907.3
\$ 80 Bromofluorobenzene	95	11.143	11.143	(1.116)	940882	1000.00	986.9
1 Dichlorodifluoromethane	85	1.592	1.592	(0.232)	347402	1000.00	777.6
2 Chloromethane	50	1.738	1.738	(0.253)	662850	1000.00	959.2
3 Vinyl Chloride	62	1.872	1.872	(0.273)	556401	1000.00	863.9
4 Bromomethane	94	2.146	2.146	(0.313)	69717	1000.00	799.4
5 Chloroethane	64	2.298	2.298	(0.335)	95098	1000.00	744.5
6 Trichlorofluoromethane	101	2.468	2.468	(0.360)	102662	1000.00	225.4
12 1,1-Dichloroethene	96	3.040	3.040	(0.443)	409087	1000.00	839.9
13 Acetone	43	3.265	3.265	(0.476)	359363	1000.00	889.6
15 Carbon Disulfide	76	3.278	3.278	(0.477)	1437563	1000.00	847.2

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
18 Methylene Chloride	84	3.740	3 740	(0.545)	652334	1000 00	1037
19 trans-1,2-Dichloroethene	96	4 141	4 141	(0 603)	581479	1000 00	1019
20 Methyl tert-butyl ether	73	4 251	4 251	(0.619)	2184256	1000.00	1128
24 1,1-Dichloroethane	63	4.750	4.750	(0 692)	1090091	1000.00	975.0
27 2,2-Dichloropropane	77	5.504	5.504	(0 802)	851118	1000.00	1003
28 cis-1,2-dichloroethene	96	5.522	5 522	(0 804)	712395	1000 00	1051
31 2-Butanone	43	5.632	5 632	(0 820)	590711	1000 00	883 9
30 Bromochloromethane	128	5 814	5 814	(0 847)	351353	1000 00	1109
37 Chloroform	83	5 942	5 942	(0.865)	1060147	1000 00	1053
38 1,1,1-Trichloroethane	97	6 112	6.112	(0.890)	820126	1000.00	984.2
41 Carbon Tetrachloride	117	6.301	6 301	(0 918)	636270	1000 00	972.3
40 1,1-Dichloropropene	75	6.313	6 313	(0 919)	650411	1000 00	979.6
42 Benzene	78	6.538	6 538	(0 952)	2717417	1000 00	1028
45 1,2-Dichloroethane	62	6.575	6.575	(0 957)	955280	1000.00	1048
47 Trichloroethene	130	7 262	7.262	(1.058)	620882	1000.00	1015
49 1,2-Dichloropropane	63	7.493	7.493	(1 091)	745225	1000.00	1061
50 Dibromomethane	93	7.615	7 615	(1 109)	433757	1000.00	1094
53 Bromodichloromethane	83	7.804	7.804	(1.136)	817806	1000 00	1126
57 cis-1,3-Dichloropropene	75	8 266	8 266	(1 204)	1086486	1000.00	1144
58 4-Methyl-2-Pentanone	43	8 497	8.497	(0 851)	1063448	1000.00	1103
60 Toluene	91	8.594	8 594	(0.861)	2860061	1000.00	940 7
61 trans-1,3-Dichloropropene	75	8.832	8 832	(0 884)	1176838	1000 00	1106
64 1,1,2-Trichloroethane	97	9.057	9.057	(0.907)	684924	1000.00	1049
65 Tetrachloroethene	164	9.142	9.142	(0 915)	453391	1000.00	881.5
67 Dibromochloromethane	129	9.434	9 434	(0.945)	678825	1000.00	1135
63 1,3-Dichloropropane	76	9.172	9.172	(0.918)	1293210	1000.00	1052
66 2-Hexanone	43	9.306	9.306	(0.932)	761090	1000.00	1157
68 1,2-Dibromoethane	107	9 501	9.501	(0.951)	709787	1000.00	1089
70 Chlorobenzene	112	10.018	10.018	(1.003)	1964708	1000.00	998 2
72 Ethylbenzene	106	10.115	10.115	(1.013)	1037389	1000.00	981.9
71 1,1,1,2-Tetrachloroethane	131	10.103	10 103	(1 012)	645820	1000 00	1045
73 m + p-Xylene	106	10.243	10 243	(1 026)	2367911	2000.00	1956
74 Xylene-o	106	10.632	10.632	(1 065)	1189067	1000.00	1014
76 Styrene	104	10 645	10.645	(1.066)	2054051	1000.00	1034
77 Bromoform	173	10.821	10.821	(1.083)	454593	1000.00	1180
78 Isopropylbenzene	105	10.991	10.991	(1.100)	2741223	1000.00	940 7
79 Bromobenzene	156	11.283	11.283	(0.919)	718687	1000 00	964 0
83 1,1,2,2-Tetrachloroethane	83	11.283	11.283	(0 919)	900446	1000 00	976.2
84 1,2,3-Trichloropropane	110	11.326	11.326	(0.922)	302202	1000 00	1028
81 n-Propylbenzene	120	11.399	11 399	(0.928)	722501	1000.00	961.9
82 2-Chlorotoluene	126	11.478	11.478	(0 935)	692131	1000 00	991.5
86 1,3,5-Trimethylbenzene	105	11 575	11.575	(0.943)	1891500	1000 00	958 9
85 4-Chlorotoluene	126	11.588	11.588	(0.944)	663760	1000 00	955 7
87 tert-Butylbenzene	119	11.892	11.892	(0.968)	1675429	1000.00	940 4
88 1,2,4-Trimethylbenzene	105	11.940	11 940	(0 972)	1946587	1000.00	1016
89 sec-Butylbenzene	105	12 111	12 111	(0.986)	2470570	1000 00	914.1
91 1,3-Dichlorobenzene	146	12 214	12 214	(0 995)	1310314	1000.00	1005

672 896

Data File: \\QPITPA02\D\chem\hp5.i\50802d.b\1E50803K.D
Report Date: 02-Aug-2000 21:13

Page 3

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====		=====	=====
90 4-Isopropyltoluene	119	12 257	12 257	(0 998)	1948505		1000 00	945.4
93 1,4-Dichlorobenzene	146	12 299	12.299	(1 001)	1339466		1000 00	1001
94 n-Butylbenzene	91	12 658	12.658	(1 031)	1607769		1000 00	926 0
95 1,2-Dichlorobenzene	146	12 670	12.670	(1.032)	1212606		1000.00	966 0
96 1,2-Dibromo-3-chloropropane	157	13.431	13 431	(1 094)	174706		1000 00	1217
97 1,2,4-Trichlorobenzene	180	14.264	14 264	(1 161)	561234		1000 00	1139
98 Hexachlorobutadiene	225	14 441	14 441	(1 176)	262011		1000 00	881.2
99 Naphthalene	128	14 502	14.502	(1 181)	1349093		1000 00	1240
100 1,2,3-Trichlorobenzene	180	14 745	14.745	(1 201)	475892		1000 00	1160
M 29 1,2-Dichloroethene (total)	96				1293874		2000 00	2073
M 75 Xylenes (total)	106				3556978		1000 00	3033

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 50926D

Instrument ID: HP5

Calibration Date: 09/26/00 Time: 0711

Lab File ID: 1C50926

Init. Calib. Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N

Init. Calib. Times: 1338 2147

GC Column: DB 624 ID: 0.20 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.180	0.228	0.01	26.7	50.0
Chloromethane	0.277	0.290	0.1	4.7	50.0
Vinyl Chloride	0.264	0.293	0.01	11.0	20.0
Bromomethane	0.037	0.036	0.01	2.7	50.0
Chloroethane	0.048	0.039	0.01	18.8	50.0
1,1-Dichloroethene	0.194	0.159	0.01	18.0	20.0
Methylene Chloride	0.242	0.224	0.01	7.4	50.0
trans-1,2-Dichloroethene	0.234	0.228	0.01	2.6	50.0
1,1-Dichloroethane	0.443	0.412	0.1	7.0	50.0
cis-1,2-dichloroethene	0.273	0.254	0.01	7.0	50.0
Chloroform	0.398	0.360	0.01	9.5	20.0
Bromochloromethane	0.124	0.117	0.01	5.6	50.0
1,1,1-Trichloroethane	0.338	0.316	0.01	6.5	50.0
Carbon Tetrachloride	0.268	0.259	0.01	3.4	50.0
1,2-Dichloroethane	0.352	0.296	0.01	15.9	50.0
Benzene	1.062	0.928	0.01	12.6	50.0
Trichloroethene	0.248	0.243	0.01	2.0	50.0
1,2-Dichloropropane	0.279	0.238	0.01	14.7	20.0
Bromodichloromethane	0.293	0.253	0.01	13.6	50.0
cis-1,3-Dichloropropene	0.391	0.327	0.01	16.4	50.0
Toluene	4.971	4.731	0.01	4.8	20.0
trans-1,3-Dichloropropene	1.711	1.714	0.01	0.2	50.0
1,1,2-Trichloroethane	1.027	1.017	0.01	1.0	50.0
Tetrachloroethene	0.852	0.968	0.01	13.6	50.0
Dibromochloromethane	0.941	0.999	0.01	6.2	50.0
Chlorobenzene	3.214	2.800	0.3	12.9	50.0
Ethylbenzene	1.767	1.608	0.01	9.0	20.0
Styrene	3.267	2.985	0.01	8.6	50.0
Bromoform	0.593	0.609	0.1	2.7	50.0
1,1,2,2-Tetrachloroethane	0.999	0.760	0.3	23.9	50.0
1,3-Dichlorobenzene	1.528	1.368	0.01	10.5	50.0
1,4-Dichlorobenzene	1.552	1.378	0.01	11.2	50.0
1,2-Dichlorobenzene	1.453	1.285	0.01	11.6	50.0
Dibromomethane	0.155	0.137	0.01	11.6	50.0
1,2-Dibromoethane	1.040	1.066	0.01	2.5	50.0
1,1,1,2-Tetrachloroethane	0.989	0.985	0.01	0.4	50.0
1,2,3-Trichloropropane	0.317	0.248	0.01	21.8	50.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: 50926D

Instrument ID: HP5

Calibration Date: 09/26/00 Time: 0711

Lab File ID: 1C50926

Init. Calib. Date(s): 08/02/00 08/02/00

Heated Purge: (Y/N) N

Init. Calib. Times: 1338 2147

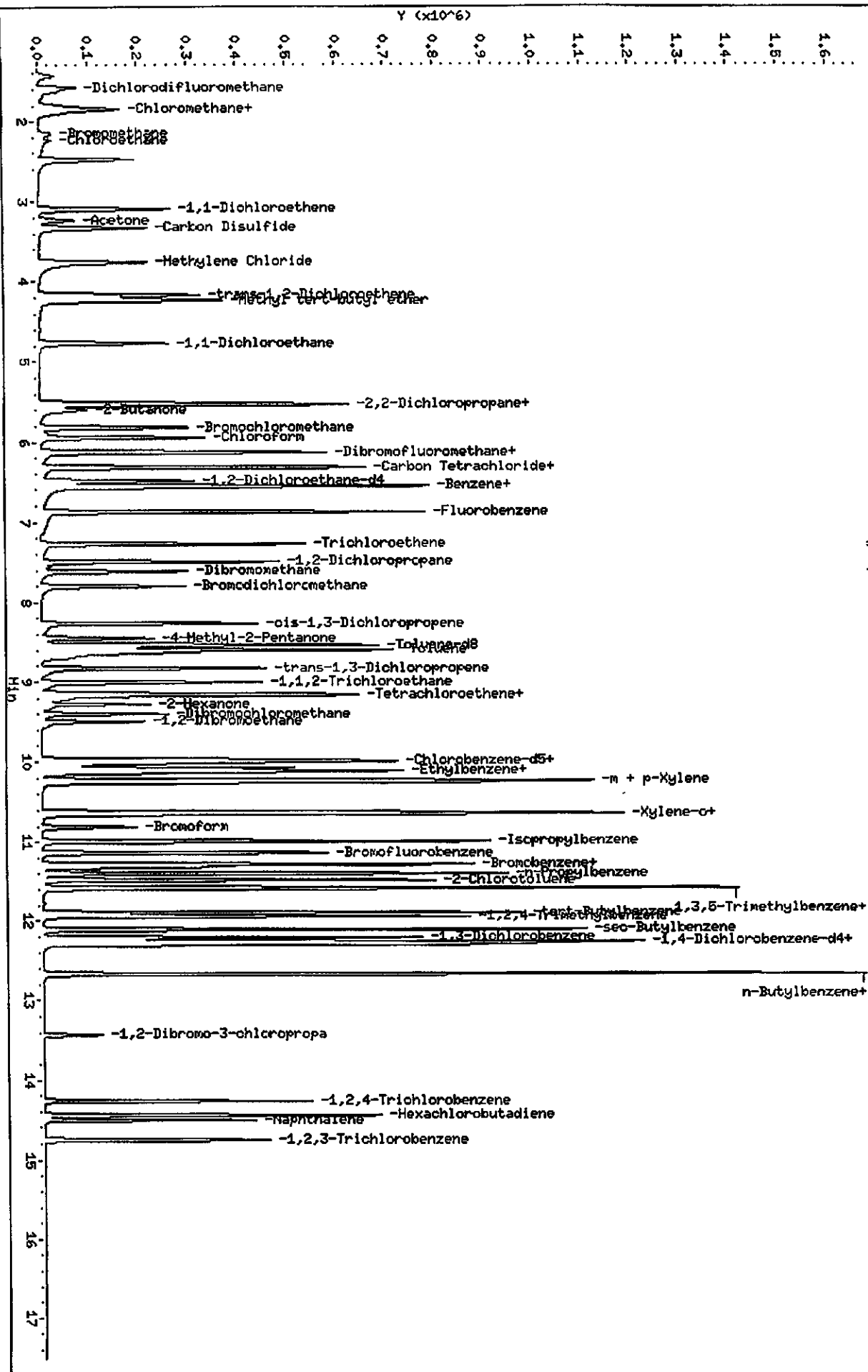
GC Column: DB 624 ID: 0.20 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,2-Dibromo-3-chloropropane	0.162	0.136	0.01	16.0	50.0
2,2-Dichloropropane	0.347	0.313	0.01	9.8	50.0
1,1-Dichloropropene	0.275	0.254	0.01	7.6	50.0
1,3-Dichloropropane	1.952	1.896	0.01	2.9	50.0
n-Propylbenzene	0.915	0.842	0.01	8.0	50.0
Bromobenzene	0.862	0.668	0.01	22.5	50.0
1,3,5-Trimethylbenzene	2.375	2.184	0.01	8.0	50.0
2-Chlorotoluene	0.820	0.711	0.01	13.3	50.0
4-Chlorotoluene	0.819	0.707	0.01	13.7	50.0
tert-Butylbenzene	2.212	2.103	0.01	4.9	50.0
1,2,4-Trimethylbenzene	2.298	2.117	0.01	7.9	50.0
sec-Butylbenzene	3.416	3.261	0.01	4.5	50.0
4-Isopropyltoluene	2.583	2.536	0.01	1.8	50.0
n-Butylbenzene	2.282	2.232	0.01	2.2	50.0
1,2,4-Trichlorobenzene	0.633	0.677	0.01	7.0	50.0
Hexachlorobutadiene	0.453	0.551	0.01	21.6	50.0
Naphthalene	1.628	1.358	0.01	16.6	50.0
1,2,3-Trichlorobenzene	0.637	0.573	0.01	10.0	50.0
Acetone	0.154	0.158	0.01	2.6	50.0
Carbon Disulfide	0.619	0.514	0.01	17.0	50.0
2-Butanone	0.358	0.185	0.01	48.3	50.0
4-Methyl-2-Pentanone	1.474	1.212	0.01	17.8	50.0
2-Hexanone	1.039	1.024	0.01	1.4	50.0
Methyl tert-butyl ether	0.705	0.649	0.01	7.9	50.0
Isopropylbenzene	4.951	4.689	0.01	5.3	50.0
1,2-Dichloroethene (total)	0.253	0.241	0.01	4.7	50.0
Xylenes (total)	1.932	1.860	0.01	3.7	50.0
=====	=====	=====	=====	=====	=====
Dibromofluoromethane	0.238	0.223	0.01	6.3	50.0
1,2-Dichloroethane-d4	0.304	0.256	0.01	15.8	50.0
Toluene-d8	4.633	4.532	0.01	2.2	50.0
Bromofluorobenzene	1.705	1.473	0.01	13.6	50.0

Data File: \\ap1tpa02\chem\hp5.1\50926d.b\1C50926.D
 Date: 26-SEP-2000 07:11
 Client ID: vstd50
 Sample Info: vstd50 5ML
 Purge Volume: 5.0
 Column phase: DB 624

\\ap1tpa02\chem\hp5.1\50926d.b\1C50926.D

Instrument: hp5.1
 Operator: 10099
 Column diameter: 0.20



672: 900

Data File: \\qpitpa02\d\chem\hp5.i\50926d.b\1C50926.D
 Report Date: 26-Sep-2000 07:37

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50926d.b\1C50926.D
 Lab Smp Id: vstd50 Client Smp ID: vstd50
 Inj Date : 26-SEP-2000 07:11 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 10099 Inst ID: hp5.i
 Smp Info : vstd50 5ML
 Misc Info : ,50926d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50926d.b\8260bh2o.m
 Meth Date : 26-Sep-2000 07:37 gordonk Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 3-dwlist.sub
 Target Version: 4.04
 Processing Host: PITPC063

Handwritten:
 1/6
 9/26/00

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng)	ON-COL (ng)
* 46 Fluorobenzene	96	6.867	6.867	(1.000)	834936	250.000		
* 69 Chlorobenzene-d5	119	9.970	9.970	(1.000)	158874	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.275	12.275	(1.000)	249194	250.000		
\$ 39 Dibromofluoromethane	113	6.125	6.125	(0.892)	186289	250.000	234.2	
\$ 43 1,2-Dichloroethane-d4	65	6.484	6.484	(0.944)	213996	250.000	210.7	
\$ 59 Toluene-d8	98	8.528	8.528	(0.855)	719953	250.000	244.5	
\$ 80 Bromofluorobenzene	95	11.131	11.131	(1.117)	233984	250.000	215.9	
1 Dichlorodifluoromethane	85	1.574	1.574	(0.229)	190472	250.000	315.7	
2 Chloromethane	50	1.818	1.818	(0.265)	242317	250.000	261.7	
3 Vinyl Chloride	62	1.848	1.848	(0.269)	244924	250.000	277.8	
4 Bromomethane	94	2.158	2.158	(0.314)	29807	250.000	242.5	
5 Chloroethane	64	2.237	2.237	(0.326)	32524	250.000	204.6	
12 1,1-Dichloroethene	96	3.089	3.089	(0.450)	132895	250.000	204.7	
13 Acetone	43	3.229	3.229	(0.470)	132234	250.000	257.6	
15 Carbon Disulfide	76	3.326	3.326	(0.484)	428903	250.000	207.3	
18 Methylene Chloride	84	3.758	3.758	(0.547)	187449	250.000	231.9	

Data File: \\qpitpa02\d\chem\hp5.i\50926d.b\1C50926.D
Report Date: 26-Sep-2000 07:37

Page '2

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	----	==	-----	-----	-----	-----	-----
19 trans-1,2-Dichloroethene	96	4.160	4.160	(0.606)	190086	250.000	243.0
20 Methyl tert-butyl ether	73	4.227	4.227	(0.616)	541907	250.000	230.0
24 1,1-Dichloroethane	63	4.762	4.762	(0.693)	344494	250.000	232.6
27 2,2-Dichloropropane	77	5.516	5.516	(0.803)	261618	250.000	226.1
28 cis-1,2-dichloroethene	96	5.529	5.529	(0.805)	211818	250.000	232.6
31 2-Butanone	43	5.589	5.589	(0.814)	154878	250.000	129.4
30 Bromochloromethane	128	5.815	5.815	(0.847)	97560	250.000	236.2
37 Chloroform	83	5.936	5.936	(0.864)	300358	250.000	225.6
38 1,1,1-Trichloroethane	97	6.119	6.119	(0.891)	263948	250.000	234.1
41 Carbon Tetrachloride	117	6.313	6.313	(0.919)	216439	250.000	241.5
40 1,1-Dichloropropene	75	6.319	6.319	(0.920)	211826	250.000	230.1
42 Benzene	78	6.545	6.545	(0.953)	774832	250.000	218.4
45 1,2-Dichloroethane	62	6.569	6.569	(0.957)	247352	250.000	210.3
47 Trichloroethene	130	7.268	7.268	(1.058)	203211	250.000	245.6
49 1,2-Dichloropropane	63	7.494	7.494	(1.091)	198957	250.000	213.3
50 Dibromomethane	93	7.615	7.615	(1.109)	114169	250.000	221.2
53 Bromodichloromethane	83	7.798	7.798	(1.136)	211090	250.000	215.7
57 cis-1,3-Dichloropropene	75	8.260	8.260	(1.203)	272978	250.000	208.8
58 4-Methyl-2-Pentanone	43	8.443	8.443	(0.847)	192642	250.000	205.7
60 Toluene	91	8.595	8.595	(0.862)	751659	250.000	237.9
61 trans-1,3-Dichloropropene	75	8.826	8.826	(0.885)	272360	250.000	250.5
64 1,1,2-Trichloroethane	97	9.002	9.002	(0.903)	161516	250.000	247.4
65 Tetrachloroethene	164	9.142	9.142	(0.917)	153818	250.000	284.0
67 Dibromochloromethane	129	9.392	9.392	(0.942)	158756	250.000	265.6
63 1,3-Dichloropropane	76	9.160	9.160	(0.919)	301219	250.000	242.8
66 2-Hexanone	43	9.276	9.276	(0.930)	162680	250.000	246.3
68 1,2-Dibromoethane	107	9.495	9.495	(0.952)	169404	250.000	256.4
70 Chlorobenzene	112	9.994	9.994	(1.002)	444768	250.000	217.8
72 Ethylbenzene	106	10.109	10.109	(1.014)	255505	250.000	227.5
71 1,1,1,2-Tetrachloroethane	131	10.073	10.073	(1.010)	156570	250.000	249.1
73 m + p-Xylene	106	10.231	10.231	(1.026)	611228	500.000	477.0
74 Xylene-o	106	10.620	10.620	(1.065)	295430	250.000	240.6
76 Styrene	104	10.633	10.633	(1.067)	474182	250.000	228.4
77 Bromoform	173	10.803	10.803	(1.084)	96723	250.000	256.9
78 Isopropylbenzene	105	10.985	10.985	(1.102)	744965	250.000	236.8
79 Bromobenzene	156	11.277	11.277	(0.919)	166490	250.000	193.7
83 1,1,2,2-Tetrachloroethane	83	11.277	11.277	(0.919)	189423	250.000	190.3
84 1,2,3-Trichloropropane	110	11.314	11.314	(0.922)	61845	250.000	195.9
81 n-Propylbenzene	120	11.393	11.393	(0.928)	209922	250.000	230.3
82 2-Chlorotoluene	126	11.472	11.472	(0.935)	177196	250.000	216.8
86 1,3,5-Trimethylbenzene	105	11.569	11.569	(0.943)	544135	250.000	229.9
85 4-Chlorotoluene	126	11.582	11.582	(0.944)	176218	250.000	215.7
87 tert-Butylbenzene	119	11.892	11.892	(0.969)	523959	250.000	237.7
88 1,2,4-Trimethylbenzene	105	11.934	11.934	(0.972)	527596	250.000	230.3
89 sec-Butylbenzene	105	12.105	12.105	(0.986)	812616	250.000	238.6
91 1,3-Dichlorobenzene	146	12.208	12.208	(0.995)	340937	250.000	223.8
90 4-Isopropyltoluene	119	12.251	12.251	(0.998)	631981	250.000	245.5

672 902

Data File: \\qpitpa02\d\chem\hp5.i\50926d.b\1C50926.D
Report Date: 26-Sep-2000 07:37

Page 3

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)	
-----	----	--	-----	-----	-----	-----	-----	
93 1,4-Dichlorobenzene	146	12.299	12.299	(1.002)	343313	250.000	222.0	
94 n-Butylbenzene	91	12.658	12.658	(1.031)	556277	250.000	244.6	
95 1,2-Dichlorobenzene	146	12.665	12.665	(1.032)	320337	250.000	221.2	
96 1,2-Dibromo-3-chloropropane	157	13.431	13.431	(1.094)	34008	250.000	211.2	
97 1,2,4-Trichlorobenzene	180	14.264	14.264	(1.162)	168646	250.000	267.4	
98 Hexachlorobutadiene	225	14.447	14.447	(1.177)	137252	250.000	303.9	
99 Naphthalene	128	14.502	14.502	(1.181)	338331	250.000	208.4	
100 1,2,3-Trichlorobenzene	180	14.745	14.745	(1.201)	142796	250.000	224.7	
M 29 1,2-Dichloroethene (total)	96				401904	500.000	474.8	
M 75 Xylenes (total)	106				906658	250.000	738.5	

GC/MS VOLATILE
QC DATA

Date : 02-AUG-2000 13:08

Client ID: 50NGBFB

Instrument: hp5.1

Sample Info: bfb 192-188-2 50ng

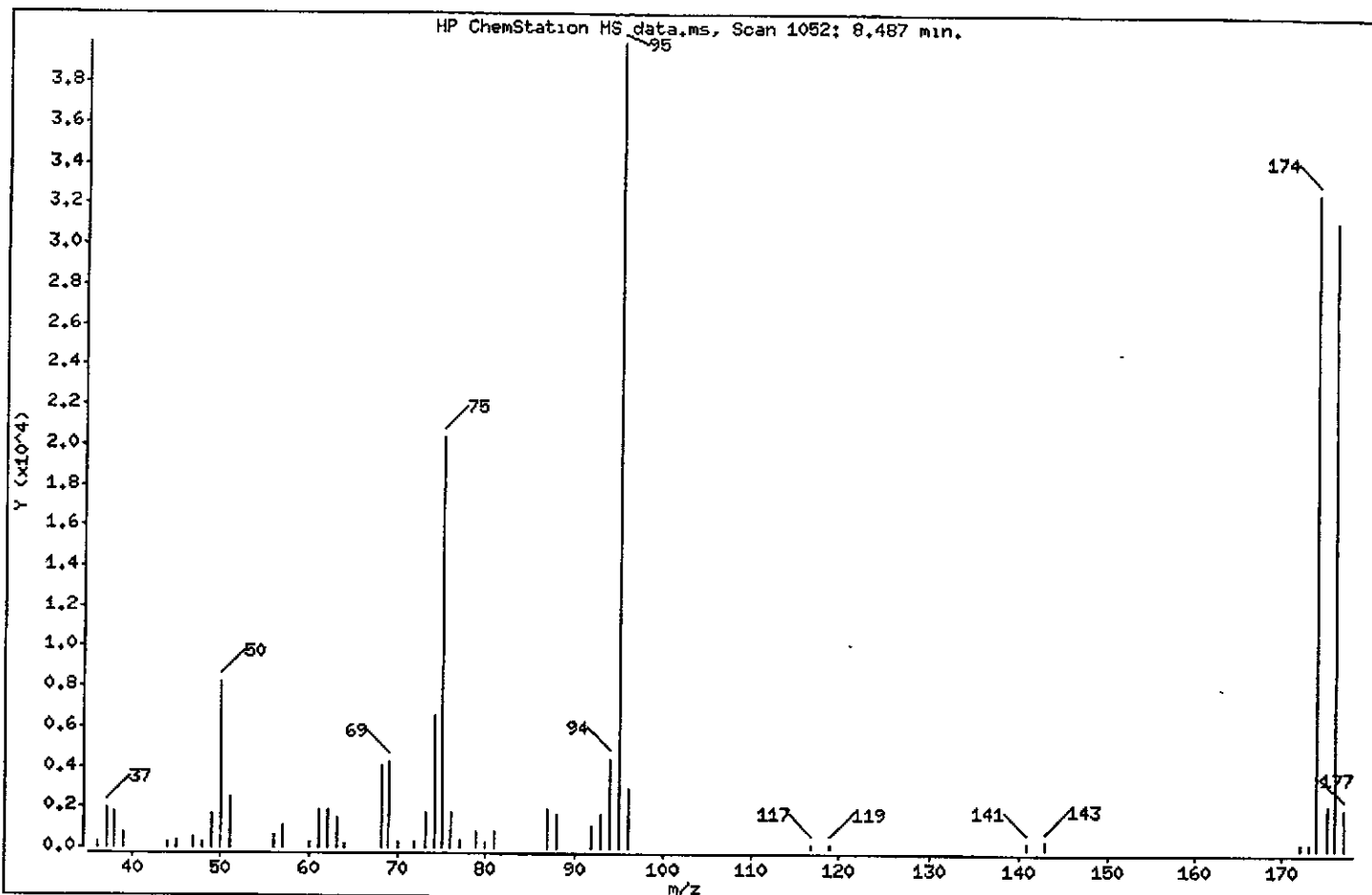
Volume Injected (uL): 2.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.20

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	20.61
75	30.00 - 60.00% of mass 95	50.99
96	5.00 - 9.00% of mass 95	7.31
173	Less than 2.00% of mass 174	0.72 (0.87)
174	50.00 - 100.00% of mass 95	81.90
175	5.00 - 9.00% of mass 174	5.60 (6.84)
176	95.00 - 101.00% of mass 174	78.34 (95.65)
177	5.00 - 9.00% of mass 176	5.11 (6.52)

Data File: \\qpitpa02\d\chem\hp5.i\50802d.b\BF50802K.D

Date : 02-AUG-2000 13:08

Client ID: 50NCBFB

Instrument: hp5.i

Sample Info: bfb.192-188-2 50ng

Volume Injected (uL): 2.0

Operator: 034635

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF50802K.D

Spectrum: HP ChemStation MS data.ms, Scan 1052: 8.487 min.

Location of Maximum: 95.00

Number of points: 47

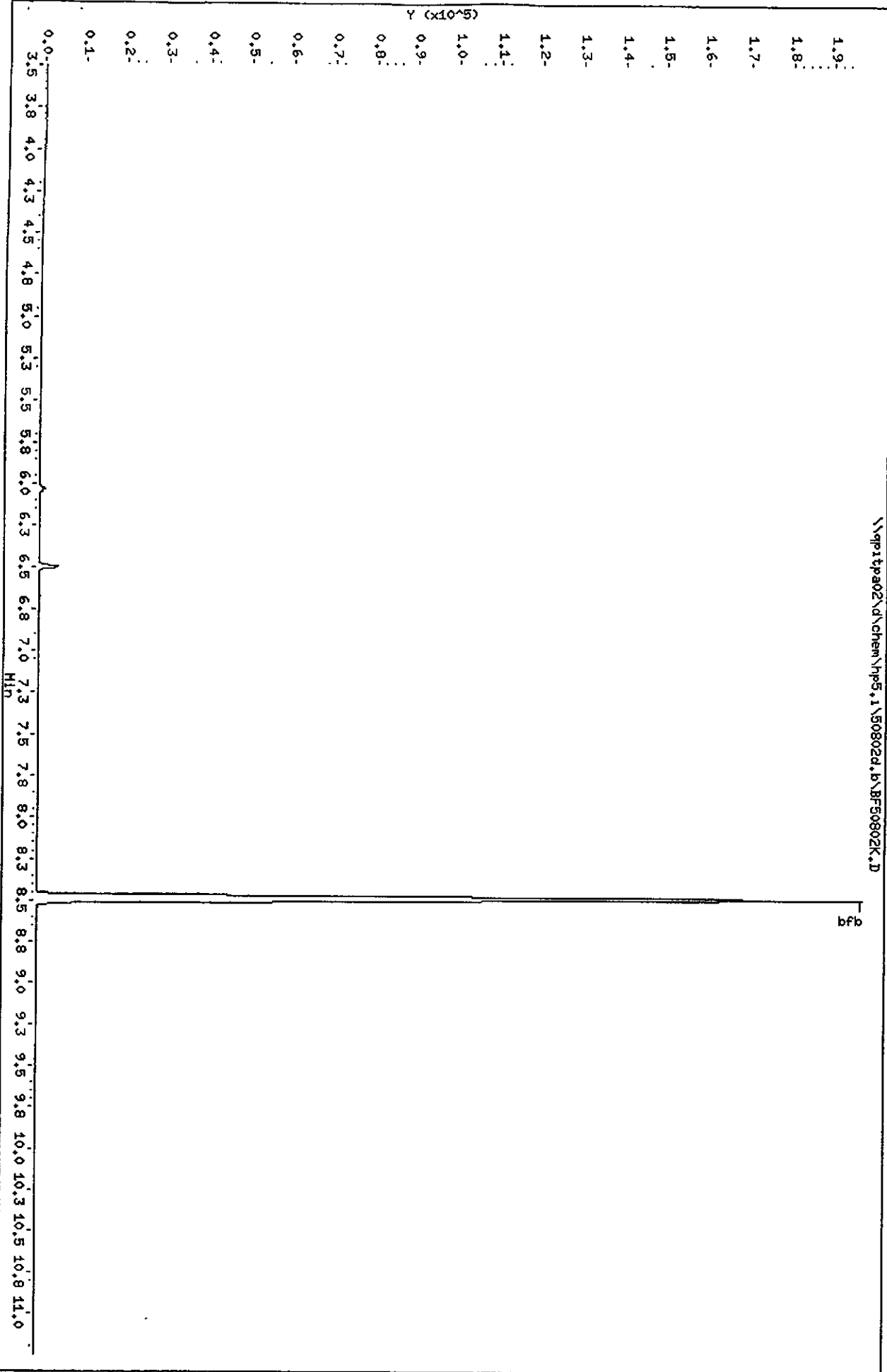
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	288	57.00	1130	75.00	20376	96.00	2922
37.10	1916	60.00	291	76.00	1706	116.90	205
38.10	1731	61.00	1834	77.00	336	118.90	221
39.10	704	62.00	1881	78.90	844	140.90	306
44.10	321	63.10	1469	79.90	300	142.90	379
45.00	358	64.00	225	81.00	872	171.90	244
47.00	573	68.00	4033	87.00	1965	173.10	286
48.00	286	69.00	4273	88.00	1695	173.90	32728
49.00	1672	70.00	312	92.00	1102	175.00	2239
50.00	8236	71.90	233	93.00	1620	176.00	31304
51.00	2485	73.00	1749	94.00	4379	177.00	2040
56.10	645	74.00	6496	95.00	39960		

Data File: \\pp1tpa02\chem\hp5.1\50802d.b\BF50802K.D
 Date : 02-AUG-2000 13:08
 Client ID: 50NCBFB
 Sample Info: bfb 192-188-2 50ng
 Volume Injected (uL): 2.0
 Column phase: DB624 20m

Instrument: hp5.1
 Operator: 034635
 Column diameter: 0.20

\\pp1tpa02\chem\hp5.1\50802d.b\BF50802K.D

bfb



672. 906

Data File: \\qpitpa02\d\ohen\hp5.i\50926d.b\BF50926.D

Date : 26-SEP-2000 06:05

Client ID: 50NGBFB

Instrument: hp5.i

Sample Info: BFB 192-188-9 50NG

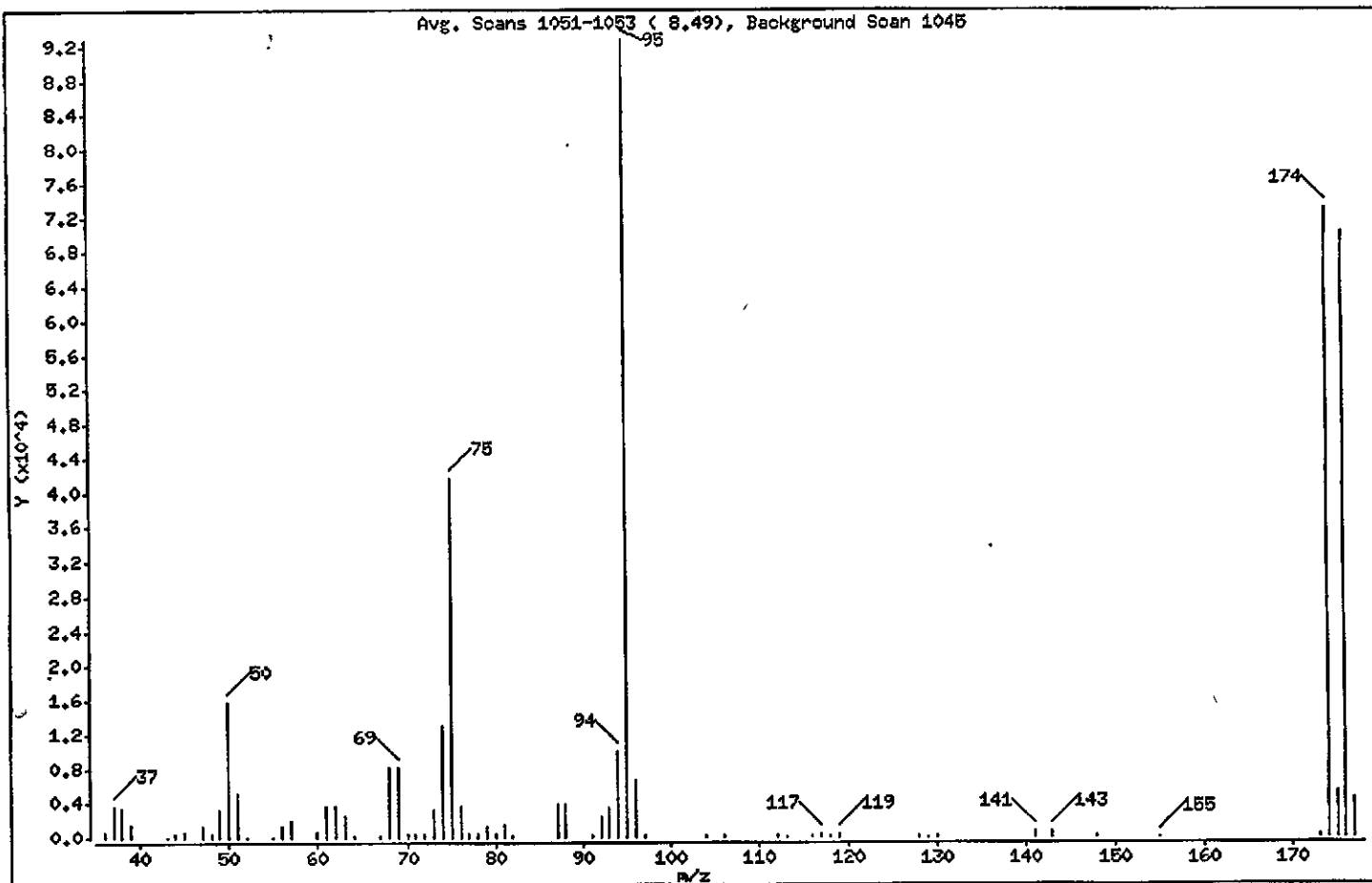
Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 2um

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.05
75	30.00 - 60.00% of mass 95	44.75
96	5.00 - 9.00% of mass 95	7.16
173	Less than 2.00% of mass 174	0.33 (0.42)
174	50.00 - 100.00% of mass 95	78.65
175	5.00 - 9.00% of mass 174	5.80 (7.37)
176	95.00 - 101.00% of mass 174	75.54 (96.05)
177	5.00 - 9.00% of mass 176	4.89 (6.47)

672 908

Data File: \\qpitpa02\chem\hp5.i\50926d.b\BF50926.D

Page 3

Date : 26-SEP-2000 06:05

Client ID: 50NGBFB

Instrument: hp5.i

Sample Info: BFB 192-188-9 50NG

Volume Injected (uL): 1.0

Operator: 10099

Column phase: DB624 20m

Column diameter: 0.20

Data File: BF50926.D

Spectrum: Avg. Scans 1051-1053 (8.49), Background Scan 1045

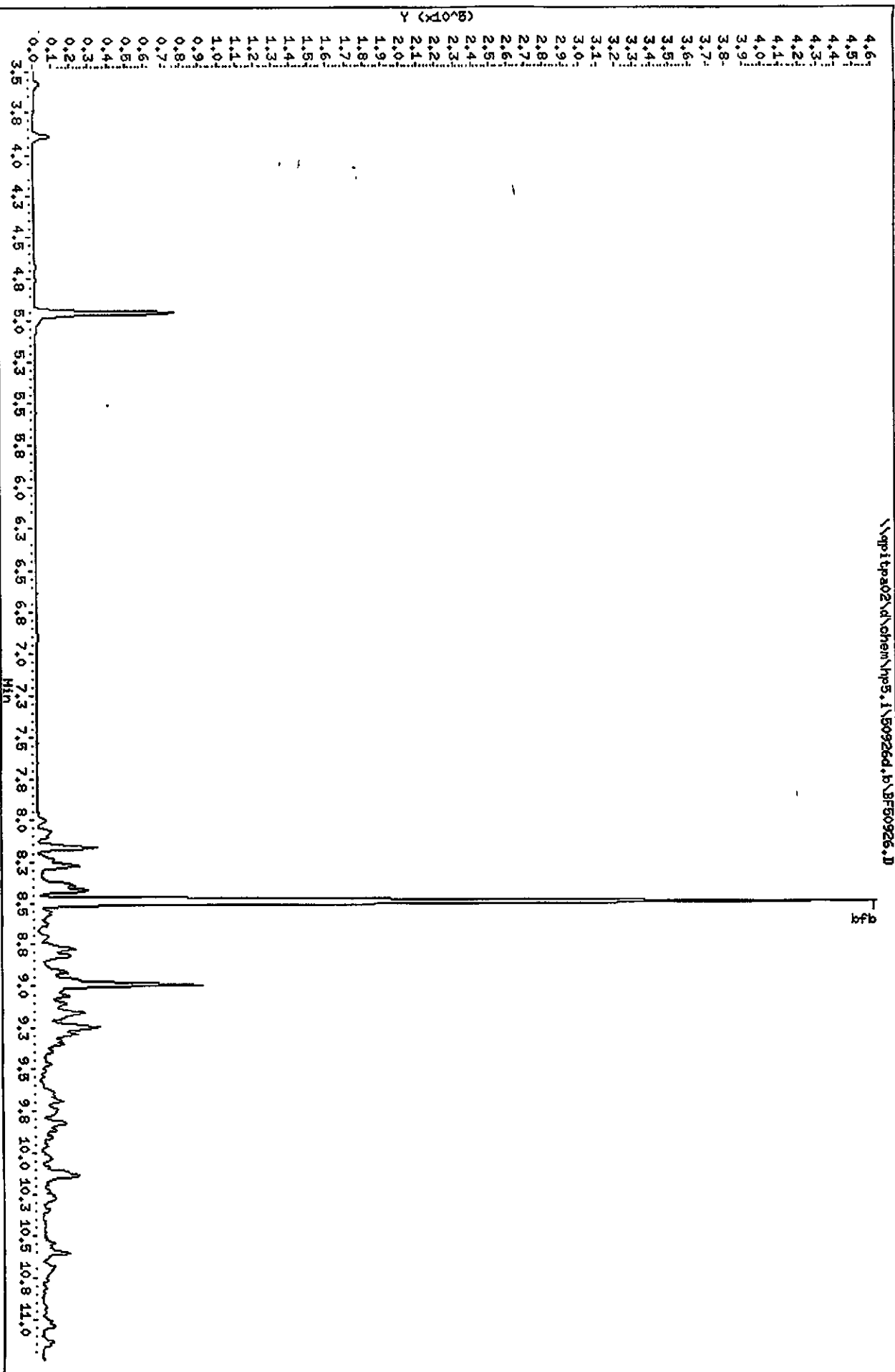
Location of Maximum: 95.00

Number of points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	616	61.00	3547	80.00	431	117.00	403
37.00	3689	62.00	3567	81.00	1468	118.00	291
38.00	3382	63.00	2555	82.00	296	119.00	354
39.00	1506	64.00	210	87.00	3839	128.00	262
43.00	22	67.00	173	88.00	3862	129.00	67
44.00	467	68.00	8128	91.00	257	130.00	296
45.00	648	69.00	8190	92.00	2295	141.00	700
47.00	1198	70.00	487	93.00	3380	143.00	665
48.00	500	71.00	452	94.00	10134	148.00	144
49.00	3157	72.00	437	95.00	92824	155.00	72
50.00	15830	73.00	3233	96.00	6647	173.00	307
51.00	5085	74.00	12972	97.00	165	174.00	73000
52.00	105	75.00	41536	104.00	271	175.00	5380
55.00	93	76.00	3675	106.00	129	176.00	70112
56.00	1266	77.00	488	112.00	202	177.00	4535
57.00	1880	78.00	402	113.00	86		
60.00	652	79.00	1363	116.00	268		

Data File: \\pittpa02\chem\hp5.1\50926d.b\BF50926.D
Date: 26-SEP-2000 06:05
Client ID: 50NCBFB
Sample Info: BFB 192-188-9 BONG
Volume Injected (uL): 1.0
Column phase: DB624 20m

Instrument: hp5.1
Operator: 10099
Column diameter: 0.20



672 910

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I260000 113

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DL1N5101

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: NA

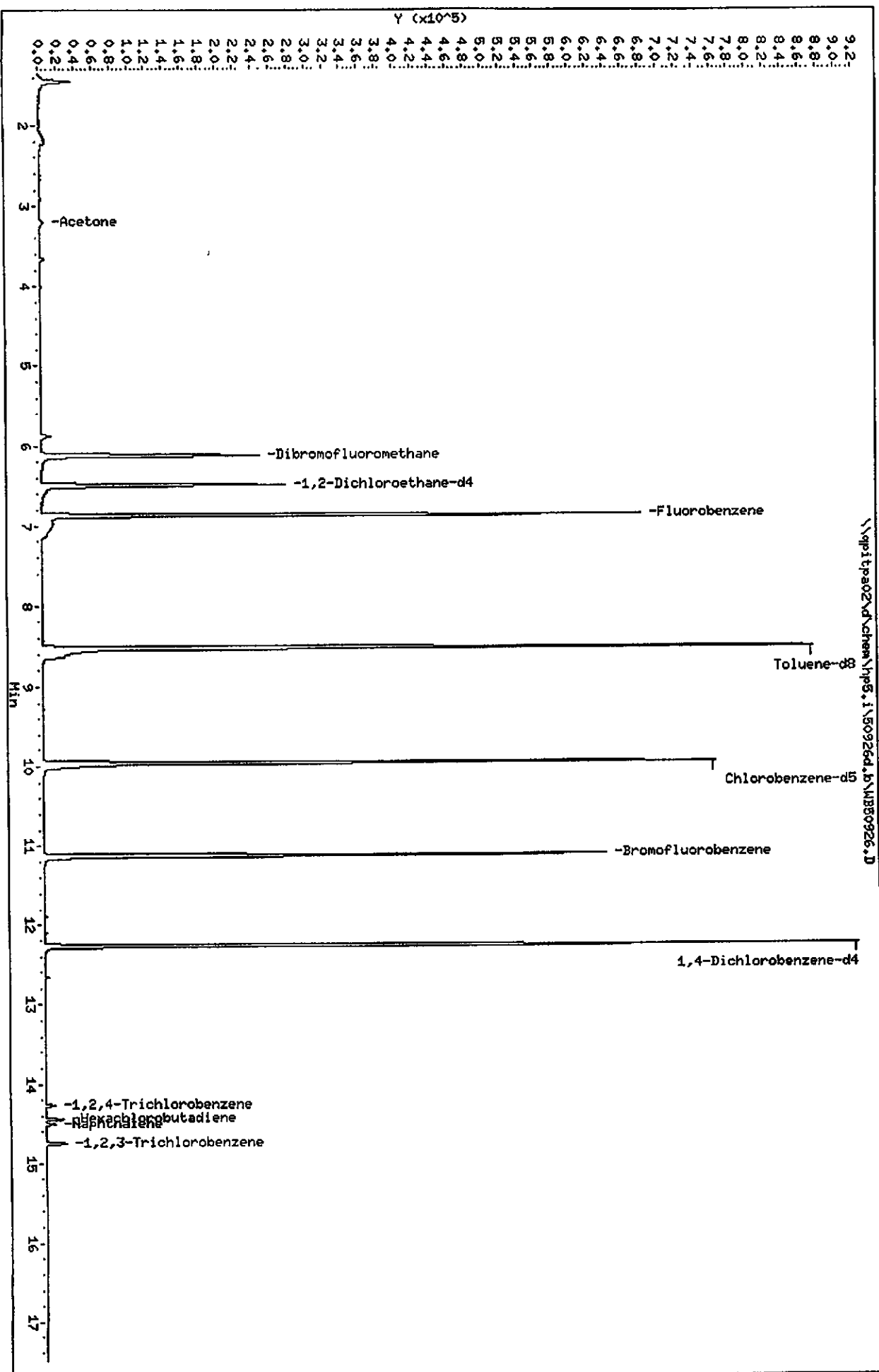
QC Batch: 0270159

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.050	U
78-93-3	2-Butanone	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
108-90-7	Chlorobenzene	0.050	U
67-66-3	Chloroform	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
75-35-4	1,1-Dichloroethene	0.050	U
127-18-4	Tetrachloroethene	0.050	U
79-01-6	Trichloroethene	0.050	U
75-01-4	Vinyl chloride	0.050	U

Data File: \\pittpa02\chem\hp5.i\50926d.b\MB0926.D
 Date: 26-SEP-2000 08:00
 Client ID:
 Sample Info: tolp prep blank 9/25/00 (1ml/10ml)/5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.i
 Operator: 10099
 Column diameter: 0.18



STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50926d.b\WB50926.D

Lab Smp Id:

Inj Date : 26-SEP-2000 08:00

MS Autotune Date: 13-MAR-2000 09:53

Operator : 10099

Inst ID: hp5.i

Smp Info : tclp prep blank 9/25/00 (1ml/10ml)/5ml

Misc Info : ,50926d.b,8260bh2o.m,3-dwlist.sub

Comment :

Method : \\qpitpa02\d\chem\hp5.i\50926d.b\8260bh2o.m

Meth Date : 26-Sep-2000 07:52 gordonk

Quant Type: ISTD

Cal Date : 02-AUG-2000 21:20

Cal File: 2A50802K.D

Als bottle: 3

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: tclp.sub

Target Version: 4.04

Processing Host: PITPC063

KLG
9/26/00

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (UG/L)
*****	****	---	---	-----	-----	-----	-----	-----
* 46 Fluorobenzene	96	6.867	6.867	(1.000)	704833	250.000		
* 69 Chlorobenzene-d5	119	9.958	9.970	(1.000)	153660	250.000		
* 92 1,4-Dichlorobenzene-d4	152	12.269	12.275	(1.000)	255216	250.000		
\$ 39 Dibromofluoromethane	113	6.125	6.125	(0.892)	163890	244.059	48.81	
\$ 43 1,2-Dichloroethane-d4	65	6.484	6.484	(0.944)	200023	233.297	46.66	
\$ 59 Toluene-d8	98	8.528	8.528	(0.856)	657851	230.994	46.20	
\$ 80 Bromofluorobenzene	95	11.126	11 131	(1.117)	243492	232.284	46.46	
3 Vinyl Chloride	62	Compound Not Detected.						
12 1,1-Dichloroethene	96	Compound Not Detected.						
31 2-Butanone	43	Compound Not Detected.						
37 Chloroform	83	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.						
65 Tetrachloroethene	164	Compound Not Detected.						

Data File: \\qpitpa02\d\chem\hp5.i\50926d.b\WB50926.D
Report Date: 26-Sep-2000 08:23

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng)	FINAL (UG/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
70 Chlorobenzene	112		Compound Not Detected					

672 914

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I260000 159

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DL1RL101

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: NA

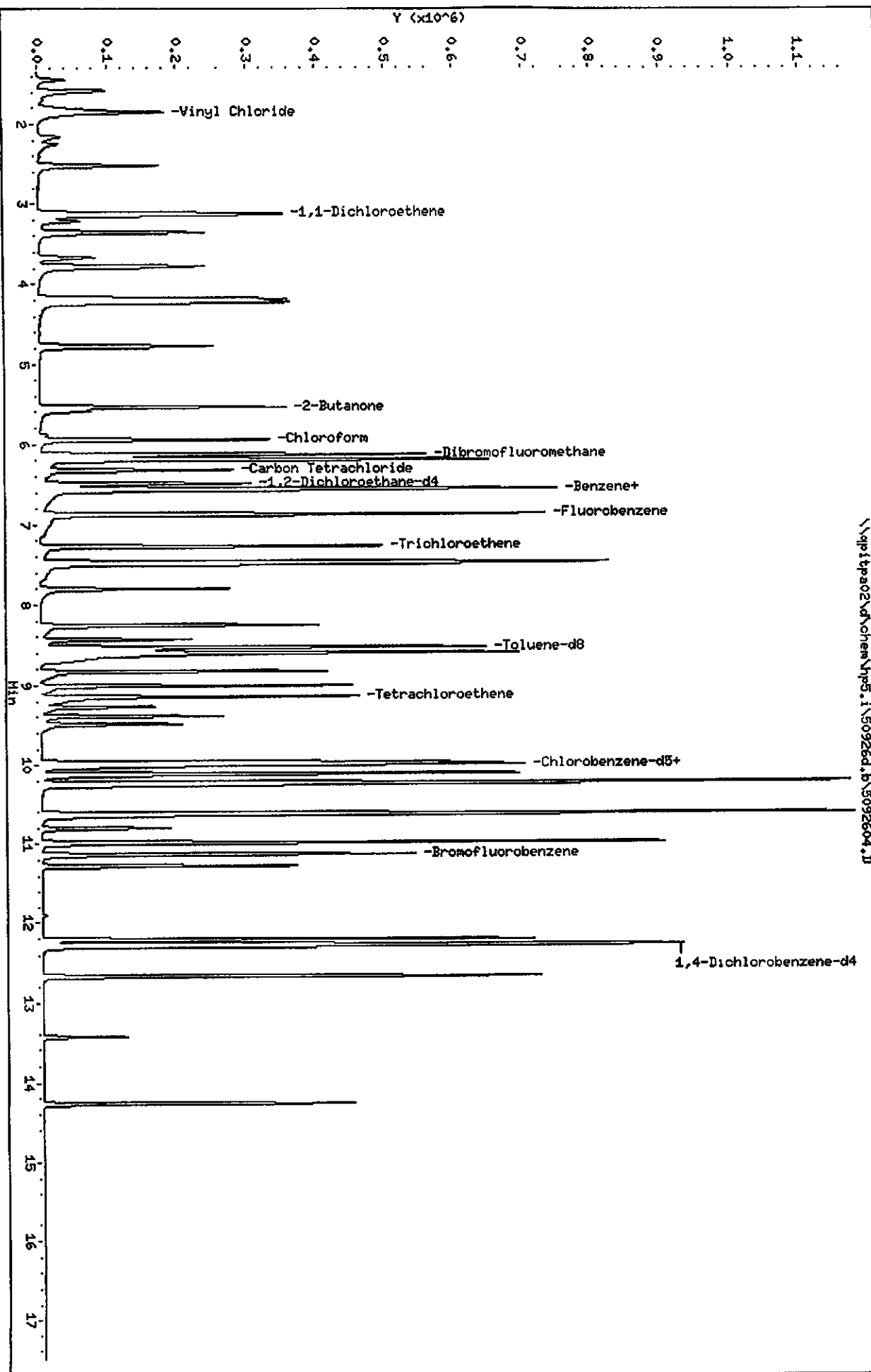
QC Batch: 0270159

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.446	
78-93-3	2-Butanone	0.207	
56-23-5	Carbon tetrachloride	0.511	
108-90-7	Chlorobenzene	0.441	
67-66-3	Chloroform	0.475	
107-06-2	1,2-Dichloroethane	0.435	
75-35-4	1,1-Dichloroethene	0.443	
127-18-4	Tetrachloroethene	0.559	
79-01-6	Trichloroethene	0.510	
75-01-4	Vinyl chloride	0.523	

Data File: \\njpitpa02\chem\hp5.i\50926d.b\50926d04.D
Date: 26-SEP-2000 09:43
Client ID: INTRALAB CHECK
Sample Info: c0120208-003 (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.i
Operator: 10099
Column diameter: 0.20



STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50926d.b\5092604.D
 Lab Smp Id: dl1rl101 Client Smp ID: INTRA LAB CHECK
 Inj Date : 26-SEP-2000 09:43 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 10099 Inst ID: hp5.i
 Smp Info : c0i220208-003 (1ml/10ml)/5ml
 Misc Info : dl1rl101,50926d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50926d.b\8260bh2o.m
 Meth Date : 26-Sep-2000 08:28 gordonk Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC063

Compound Sublist: tclp.sub

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(UG/L)
*****	----	--	-----	-----	-----	-----	-----
* 46 Fluorobenzene	96	6.874	6.867	(1.000)	760547	250.000	
* 69 Chlorobenzene-d5	119	9.964	9.970	(1.000)	146221	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.276	12.275	(1.000)	243334	250.000	
\$ 39 Dibromofluoromethane	113	6.126	6.125	(0.891)	173273	239.131	47.83
\$ 43 1,2-Dichloroethane-d4	65	6.491	6.484	(0.944)	199864	216.035	43.21
\$ 59 Toluene-d8	98	8.529	8.528	(0.856)	657573	242.642	48.53
\$ 80 Bromofluorobenzene	95	11.132	11.131	(1.117)	226627	227.194	45.44
3 Vinyl Chloride	62	1.855	1.848	(0.270)	209936	261.440	52.29
12 1,1-Dichloroethene	96	3.114	3.089	(0.453)	131004	221.560	44.31
31 2-Butanone	43	5.584	5.589	(0.812)	113004	103.654	20.73
37 Chloroform	83	5.949	5.936	(0.865)	287957	237.459	47.49
41 Carbon Tetrachloride	117	6.320	6.313	(0.919)	208500	255.430	51.09
42 Benzene	78	6.552	6.545	(0.953)	721362	223.188	44.64
45 1,2-Dichloroethane	62	6.576	6.569	(0.957)	233188	217.636	43.53
47 Trichloroethene	130	7.269	7.268	(1.058)	192089	254.860	50.97
65 Tetrachloroethene	164	9.143	9.142	(0.918)	139246	279.335	55.87

Data File: \\qpitpa02\d\chem\hp5.i\50926d.b\5092604.D
 Report Date: 26-Sep-2000 10:07

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(UG/L)
=====	=====	==	=====	=====	=====	=====	=====
70 Chlorobenzene	112	9.995	9.994	(1.003)	414416	220.473	44.09

672 918

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID: C0I220208 003
Method: SW846 8260B
Volatile Organics, GC/MS (8260B)Sample WT/Vol: 5 / mL Date Received: 09/22/00
Work Order: DKVK410L Date Extracted: 09/26/00
Dilution factor: 1 Date Analyzed: 09/26/00
Moisture %: 15

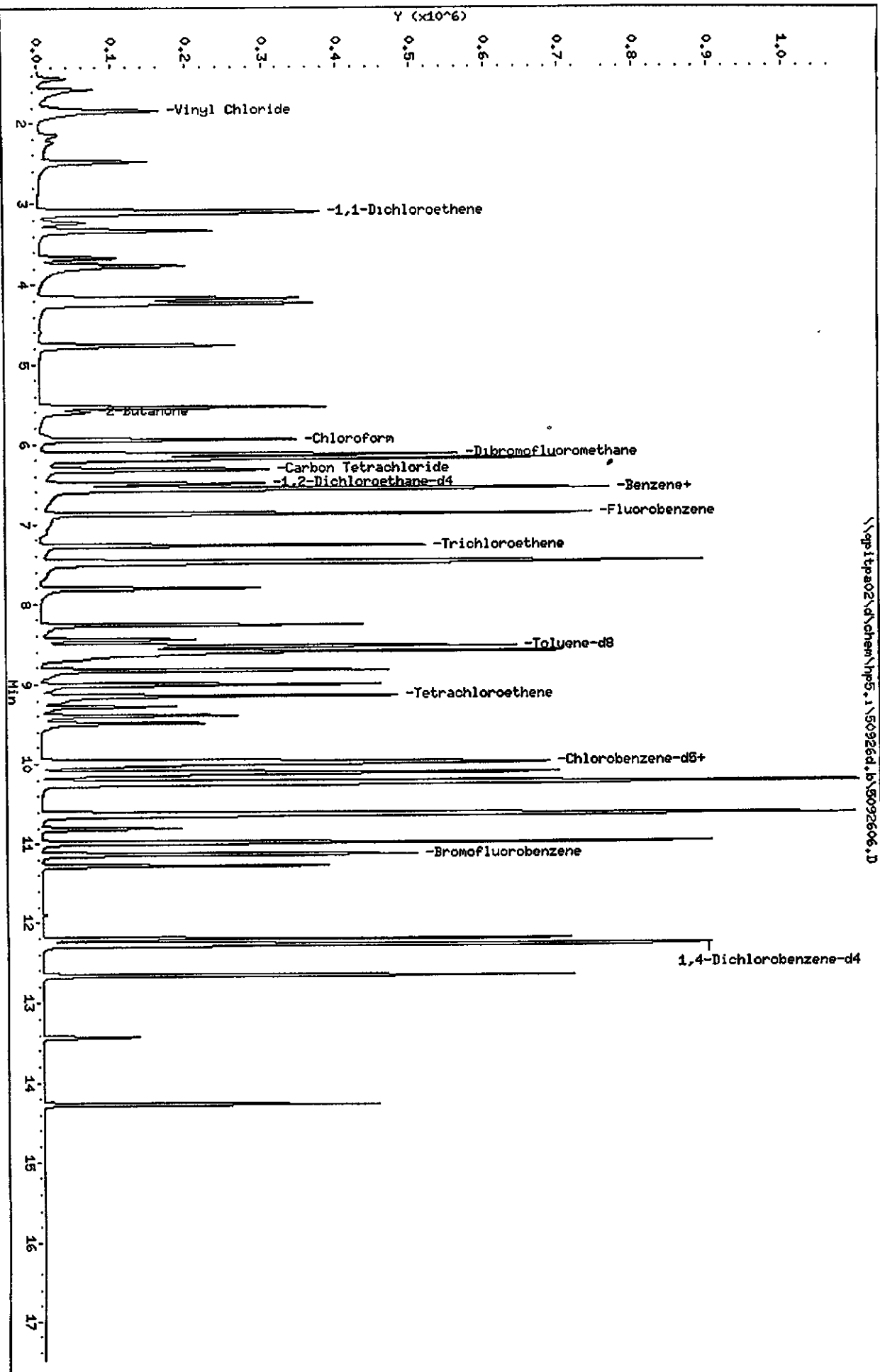
QC Batch: 0270159

Client Sample Id: DF/24-A/0265/SDC/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.461	
78-93-3	2-Butanone	0.226	
56-23-5	Carbon tetrachloride	0.537	
108-90-7	Chlorobenzene	0.452	
67-66-3	Chloroform	0.487	
107-06-2	1,2-Dichloroethane	0.453	
75-35-4	1,1-Dichloroethene	0.439	
127-18-4	Tetrachloroethene	0.599	
79-01-6	Trichloroethene	0.515	
75-01-4	Vinyl chloride	0.530	

Data File: \\pittpa02\chem\hp5.1\50926d.b\5092606.D
Date: 26-SEP-2000 10:34
Client ID: DF/24-A/0265/SDC/00
Sample Info: c01220208-003ms (1ml/10ml)/5ml
Purge Volume: 5.0
Column phase: DB 624

Instrument: hp5.1
Operator: 10099
Column diameter: 0.20



672 919

Data File: \\qpitpa02\d\chem\hp5.i\50926d.b\5092606.D
 Report Date: 26-Sep-2000 10:57

Page 1

STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50926d.b\5092606.D
 Lab Smp Id: DKVK410L Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 26-SEP-2000 10:34 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 10099 Inst ID: hp5.i
 Smp Info : c0i220208-003ms (1ml/10ml)/5ml
 Misc Info : dkvk4101,50926d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50926d.b\8260bh2o.m
 Meth Date : 26-Sep-2000 08:28 gordonk Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 9 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC063

KLG
9/26/00

Compound Sublist: tc1p.sub

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (UG/L)
* 46 Fluorobenzene	96	6.873	6.867	(1.000)	779070	250.000	
* 69 Chlorobenzene-d5	119	9.969	9.970	(1.000)	145276	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.275	12.275	(1.000)	229950	250.000	
\$ 39 Dibromofluoromethane	113	6.131	6.125	(0.892)	173046	233.139	46.63
\$ 43 1,2-Dichloroethane-d4	65	6.490	6.484	(0.944)	203181	214.399	42.88
\$ 59 Toluene-d8	98	8.534	8.528	(0.856)	641633	238.300	47.66
\$ 80 Bromofluorobenzene	95	11.131	11.131	(1.117)	208492	210.373	42.07
3 Vinyl Chloride	62	1.848	1.848	(0.269)	218053	265.092	53.02
12 1,1-Dichloroethene	96	3.095	3.089	(0.450)	132861	219.358	43.87
31 2-Butanone	43	5.595	5.589	(0.814)	125922	112.757	22.55
37 Chloroform	83	5.948	5.936	(0.865)	302701	243.682	48.74
41 Carbon Tetrachloride	117	6.319	6.313	(0.919)	224504	268.497	53.70
42 Benzene	78	6.550	6.545	(0.953)	762429	230.285	46.06
45 1,2-Dichloroethane	62	6.575	6.569	(0.957)	248602	226.505	45.30
47 Trichloroethene	130	7.274	7.268	(1.058)	198812	257.509	51.50
65 Tetrachloroethene	164	9.148	9.142	(0.918)	148399	299.632	59.93

Data File: \\qpitpa02\d\chem\hp5.i\50926d.b\5092606.D
Report Date: 26-Sep-2000 10:57

Page 2

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ng)	(UG/L)
-----	----	---	--	-----	-----	-----	-----	-----
70 Chlorobenzene		112	9.994	9.994	(1.002)	421910	225.919	45.18

672 921

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 003

Method: SW846 8260B

Volatile Organics, GC/MS (8260B)

Sample WT/Vol: 5 / mL

Date Received: 09/22/00

Work Order: DKVK410M

Date Extracted: 09/26/00

Dilution factor: 1

Date Analyzed: 09/26/00

Moisture %: 15

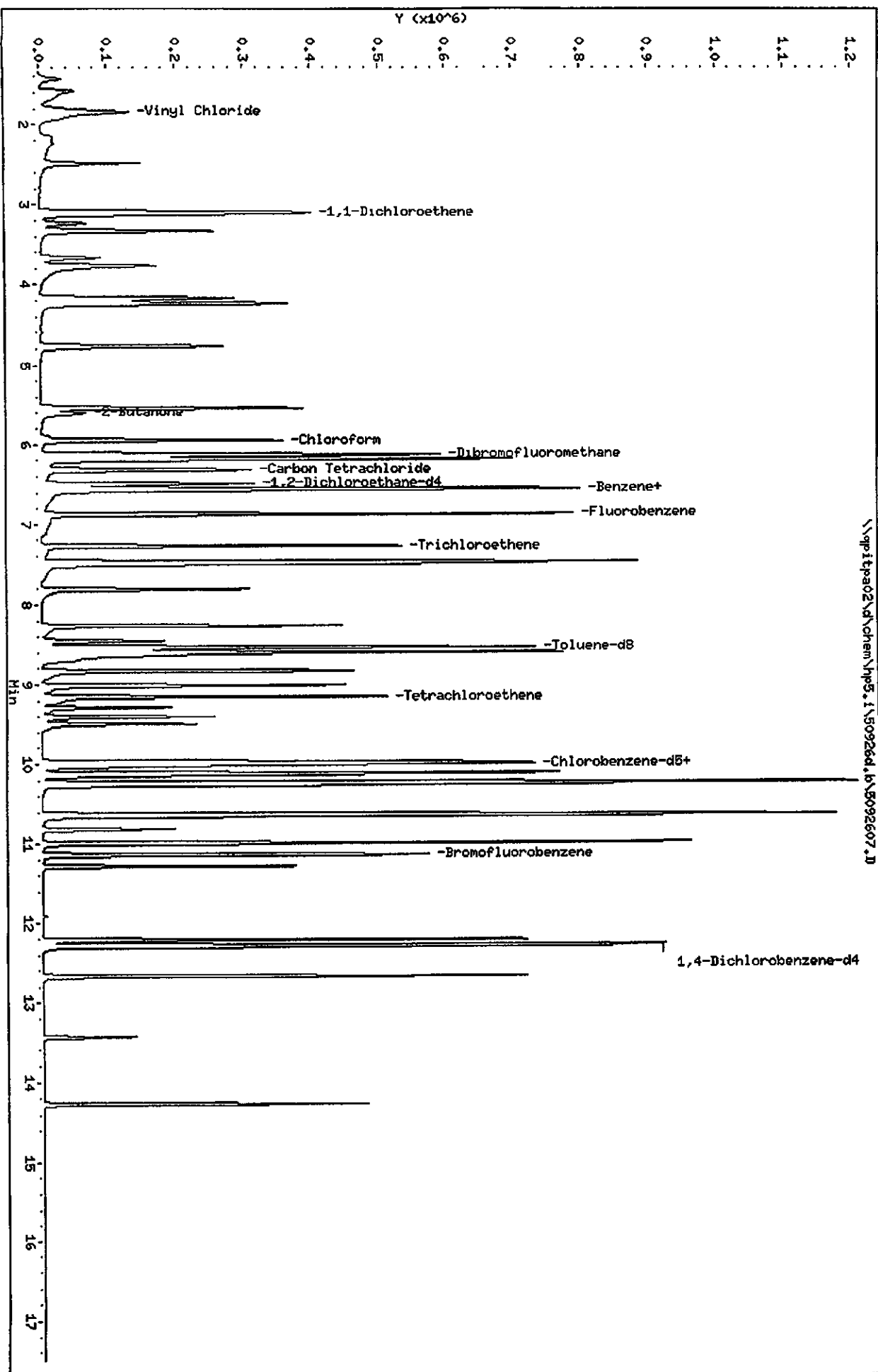
QC Batch: 0270159

Client Sample Id: DF/24-A/0265/SDC/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
71-43-2	Benzene	0.449	
78-93-3	2-Butanone	0.229	
56-23-5	Carbon tetrachloride	0.498	
108-90-7	Chlorobenzene	0.446	
67-66-3	Chloroform	0.472	
107-06-2	1,2-Dichloroethane	0.438	
75-35-4	1,1-Dichloroethene	0.463	
127-18-4	Tetrachloroethene	0.574	
79-01-6	Trichloroethene	0.508	
75-01-4	Vinyl chloride	0.524	

Data File: \\ppitpa02\chem\hp5.1\509264.b\5092607.D
 Date: 26-SEP-2000 10:58
 Client ID: DF/24-A/0265/SDC/00
 Sample Info: 00120208-003msd (1ml/10ml)/5ml
 Purge Volume: 5.0
 Column phase: DB 624

Instrument: hp5.1
 Operator: 10099
 Column diameter: 0.20



STL - Pittsburgh

VOLATILE REPORT SW-846 Method

Data file : \\qpitpa02\d\chem\hp5.i\50926d.b\5092607.D
 Lab Smp Id: DKVK410M Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 26-SEP-2000 10:58 MS Autotune Date: 13-MAR-2000 09:53
 Operator : 10099 Inst ID: hp5.i
 Smp Info : c0i220208-003msd (1ml/10ml)/5ml
 Misc Info : dkvk410m,50926d.b,8260bh2o.m,3-dwlist.sub
 Comment :
 Method : \\QPITPA02\D\chem\hp5.i\50926d.b\8260bh2o.m
 Meth Date : 26-Sep-2000 08:28 gordonk Quant Type: ISTD
 Cal Date : 02-AUG-2000 21:20 Cal File: 2A50802K.D
 Als bottle: 10 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.04
 Processing Host: PITPC063

KLG
9/26/00

Compound Sublist: tclp.sub

Concentration Formula: Amt * DF * 1/Vo*Vt

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	Sample Volume
Vt	1.000	mg/L conversion (1.0 if no conversion)

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (UG/L)
*****	****	--	*****	*****	*****	*****	*****
* 46 Fluorobenzene	96	6.872	6.867	(1.000)	813640	250.000	
* 69 Chlorobenzene-d5	119	9.968	9.970	(1.000)	153433	250.000	
* 92 1,4-Dichlorobenzene-d4	152	12.274	12.275	(1.000)	240209	250.000	
\$ 39 Dibromofluoromethane	113	6.130	6.125	(0.892)	185860	239.764	47.95
\$ 43 1,2-Dichloroethane-d4	65	6.489	6.484	(0.944)	214140	216.363	43.27
\$ 59 Toluene-d8	98	8.533	8.528	(0.856)	696821	245.039	49.01
\$ 80 Bromofluorobenzene	95	11.136	11.131	(1.117)	228085	217.908	43.58
3 Vinyl Chloride	62	1.853	1.848	(0.270)	224978	261.890	52.38
12 1,1-Dichloroethene	96	3.088	3.089	(0.449)	146305	231.292	46.26
31 2-Butanone	43	5.601	5.589	(0.815)	133587	114.538	22.91
37 Chloroform	83	5.947	5.936	(0.865)	306211	236.034	47.21
41 Carbon Tetrachloride	117	6.318	6.313	(0.919)	217212	248.738	49.75
42 Benzene	78	6.550	6.545	(0.953)	775828	224.376	44.88
45 1,2-Dichloroethane	62	6.574	6.569	(0.957)	250892	218.879	43.78
47 Trichloroethene	130	7.273	7.268	(1.058)	204753	253.935	50.79
65 Tetrachloroethene	164	9.147	9.142	(0.918)	150179	287.108	57.42

Data File: \\qpitpa02\d\chem\hp5.i\50926d.b\5092607.D
Report Date: 26-Sep-2000 11:20

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ng)	(UG/L)
=====	----	--	=====	=====	=====	=====	=====
70 Chlorobenzene	112	9.993	9.994	(1.002)	440123	223.143	44.63

672 925

**GC/MS VOLATILE
MISCELLANEOUS**

G S Volatile

Run Log

Method: 1.24

Inst. ID HPS


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

Analyst KLG & RV

Reviewed by:

Date:

Std: 192-188-2 BFB

Std: 192-187-1 Lnt

Std: 192-187-2 SUR

Std: 192-187-8 VOA

Std: 192-188-2 BFB

Std: 192-187-1 Lnt

Std: 192-187-2 SUR

Std: 192-187-8 VOA

Date	File ID	Lot No./Sample No.	Vol./Wt.	pH	Port#	Comments
8/2/00	1. BFB	BFB	500g			0820 624
	2. Q150802	QC Check 20ppb	5ml			624
	3. 1A50802	VSTD Bonus	5ml			
	4. 1B50802	VSTD Bonus	5ml			
	5. 1C50802	VSTD Bonus	5ml			
	6. 1D50802	VSTD Bonus	5ml			
	7. BFB	BFB	500g			0820 624
	8. 1C50802	VSTD	5ml			
	9. 1A50802	VSTD	5ml			
	10. 1B50802	VSTD	5ml			
	11. 1D50802	VSTD	5ml			
	12. 1E50802	VSTD	5ml			
	13. 2A50802	VSTD	5ml			
	14. 2B50802	VSTD	5ml			
	15. 3A50802	VSTD	5ml			
	16.					
	17.					
	18.					
	19.					
	20.					
	21.					
	22.					

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

P.027001

672 927



Lab Sample ID #	Client ID	Weight (gm)	Vessel	Extraction Fluid No. / Volume	pH	On		Off			
						Date	Time	Initials	Date	Time	Initials
1. COI220208	BIK		L	TCLP #1	4.91	9/25/2000	11:15	WT	9/26/2000	07:25	WT
2.	001	25.0g	ZZ		5.67						
3.	002		G		6.39						
4.	003		E		5.29						
5. COI210229	001		N		5.42						
6.											
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											
15.											
16.											
17.											
18.											

WT 9/25/2000

Extract(s) Received				Extract(s) Relinquished				
Revised line number from above)	Date	Time	Analyst	Location	Date	Time	Analyst	Location
All Above	9/26/2000	07:40	B Sargent	Ora Prep	9/26/2000	07:45	B Sargent	CCLP-01
All Above	9/26/00	0745	Jenny Gordon	CPI	9/26/00	1110	Jenny Gordon	NYOI

Room Temp: 20

Tumbler RPMs: 30 (30±2)

PH Calibration (4.0) (7.0) (10)

Date 9/25/2000 4.00 7.02 10.04

Date 9/26/2000 4.00 7.02 10.05

* = Sample determined to have free-liquid. % solid determination was performed
<5 = Extraction Fluid No. 1 5.7 mL Glacial Acetic Acid dil 500mL + 64.3 mL of 1 N Na OH dil to 1 L (pH 4.93+ 0.05)

Reviewed by: James M. Ma Date: 9-26-00 Comments

N:\QA\Logbooks\ZHE

MS Volatile

Run Log

Method: 7260B

Inst. ID HP5



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

Analyst KLG

Reviewed by:

Date:

Std: 92189-5 BFB Std: 92190-8bk

Std: 92190-9 SWR Std: 92187-4MS

Std: 92188-10 MTBkcs2

Std: 92191-3 VOA Std:

Std:

Std:

Date	File ID	Lot No. /Sample No.	Vol. /Wt.	pH	Port#	Comments
9/26/00	1: BFE50926	BFB	500g			0605
	2: 1050926	VSH50	5ml			
	3: 11B50926	VBUK TLP PB 9/25/00	(1ml/10ml)/5ml	5		
	4: 5092601	00122008-001	(1ml/10ml)/5ml	5		
	5: 5092602	00122008-002	(1ml/10ml)/5ml	5		
	6: 5092603	00122008-003	(1ml/10ml)/5ml	5		
	7: 5092604	Blank MS	(1ml/10ml)/5ml	5		
	8: 5092605	001210289-001	(1ml/10ml)/5ml	5		
	9: 5092606	00122008-003MS	(1ml/10ml)/5ml	5		
	10: 5092607	00122008-003MSB	(1ml/10ml)/5ml	5		
	11.					
	12.					
	13.					
	14.					
	15.					
	16.					
	17.					
	18.					
	19.					
	20.					
	21.					
	22.					

672 929

PSR024 9/25/00 5:38:39 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: TROUTB

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

<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>
12D	DKRKG-1-0J	— — —	266288	054156	A-58-QK	C01210229	001		SOLID	0	2 1
13D CLP1	DKVJW-1-02	— — —	266285	399411	A-58-QK	C01220208	001		SOLID	0	3 1
13D CLP1	DKVK3-1-02	— — —	266286	399411	A-58-QK	C01220208	002		SOLID	0	3 1
13D CLP1	DKVK4-1-02	— — —	266287	399411	A-58-QK	C01220208	003		SOLID	0	3 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Ka Seely
B Trout

B Trout
Ka Seely

9/25/2000 08:05
9/25/2000 14:20

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

GC/MS SEMIVOLATILE DATA

672 931

**GC/MS SEMIVOLATILE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0I220208

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	TOT OUT
	=====	=====	=====	=====	=====	=====	=====	=====
01	DF/24-A/0265/SDC/001	67	52	113	57	66	68	00
02	DF/24-A/0265/SDC/002	70	54	118	60	69	67	00
03	DF/24-A/0265/SDC/003	68	54	112	57	66	67	00
04	METHOD BLK. DL676101	67	58	109	61	68	63	00
05	LCS DL676102	76	67	103	70	75	70	00
06	DF/24-A/0265/SDC/001 D	61	51	108	49	58	62	00
07	DF/24-A/0265/SDC/001 S	72	59	115	59	71	68	00

SURROGATES

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

QC LIMITS

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

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

FORM II

672 933 SW846 8270C CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0I280000

WO #: DL676102

BATCH: 0272099

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
1,4-Dichlorobenzene	0.250	0.189	76	28- 110	
2,4-Dinitrotoluene	0.250	0.197	79	47- 131	
Hexachlorobenzene	0.250	0.174	69	57- 128	
Hexachlorobutadiene	0.250	0.188	75	36- 116	
Hexachloroethane	0.250	0.193	77	30- 110	
Nitrobenzene	0.250	0.199	80	45- 130	
Pentachlorophenol	0.250	0.195	78	10- 140	
Pyridine	0.250	0.230	92	10- 148	
2,4,5-Trichlorophenol	0.250	0.184	74	41- 125	
2,4,6-Trichlorophenol	0.250	0.178	71	46- 135	
Cresols (total)	0.750	0.626	84	29- 144	

NOTES (S) :

* Values outside of QC limits

Spike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/001

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVJW10L

BATCH: 0272099

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene	0.250	ND	0.165	66	18 - 110	
2,4-Dinitrotoluene	0.250	ND	0.203	81	31 - 131	
Hexachlorobenzene	0.250	ND	0.172	69	36 - 132	
Hexachlorobutadiene	0.250	ND	0.156	62	18 - 116	
Hexachloroethane	0.250	ND	0.161	64	18 - 110	
Nitrobenzene	0.250	ND	0.188	75	10 - 211	
Pentachlorophenol	0.250	ND	0.185	74	10 - 140	
Pyridine	0.250	ND	0.195	78	10 - 148	
2,4,5-Trichlorophenol	0.250	ND	0.174	69	24 - 143	
2,4,6-Trichlorophenol	0.250	ND	0.170	68	36 - 135	
Cresols (total)	0.750	ND	0.608	81	25 - 144	

NOTES (S) :

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: 0 out of 11 outside limits

COMMENTS:

672 935

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/001

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVJW10M

BATCH: 0272099

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD % REC	% RPD	QC LIMITS RPD	REC	QUAL
1,4-Dichlorobenzene	0.250	0.138	55	18	36	18 - 110	
2,4-Dinitrotoluene	0.250	0.179	72	12	32	31 - 131	
Hexachlorobenzene	0.250	0.161	64	6.8	22	36 - 132	
Hexachlorobutadiene	0.250	0.129	52	19	32	18 - 116	
Hexachloroethane	0.250	0.132	53	19	33	18 - 110	
Nitrobenzene	0.250	0.161	64	16	50	10 - 211	
Pentachlorophenol	0.250	0.177	71	4.7	56	10 - 140	
Pyridine	0.250	0.166	66	16	65	10 - 148	
2,4,5-Trichlorophenol	0.250	0.157	63	10	22	24 - 143	
2,4,6-Trichlorophenol	0.250	0.147	59	15	27	36 - 135	
Cresols (total)	0.750	0.513	68	17	33	25 - 144	

NOTES (S) :

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

* Values outside of QC limits

RPD: 0 out of 11 outside limitsSpike Recovery: 0 out of 11 outside limits

COMMENTS:

FORM III

SW846 8270C METHOD BLANK SUMMARY

DL676101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: S0929007.

Lot Number: C0I220208

Date Analyzed: 09/29/00

Time Analyzed: 09:48

Matrix: SOLID

Date Extracted: 09/27/00

GC Column: DB5MS ID: .25

Extraction Method: 1311/3520C

Instrument ID: 71

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-A/0265/SDC/001	DKVJW10L S	S0929009.	09/29/00	10:54
02	DF/24-A/0265/SDC/001	DKVJW10M D	S0929010.	09/29/00	11:28
03	DF/24-A/0265/SDC/001	DKVJW103	S0929011.	09/29/00	12:01
04	DF/24-A/0265/SDC/002	DKVK3103	S0929012.	09/29/00	12:35
05	DF/24-A/0265/SDC/003	DKVK4103	S0929013.	09/29/00	13:08
06	CHECK SAMPLE	DL676102 C	S0929008.	09/29/00	10:21
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
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23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

672 937

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.:

Lab File ID: S0829DF1

DFTPP Injection Date: 08/29/00

Instrument ID: 71

DFTPP Injection Time: 0952

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	46.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	57.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 1.0% of mass 198	1.22
441	Present, but less than mass 443	13.2
442	Greater than 40.0% of mass 198	83.6
443	17.0 - 23.0% of mass 442	14.9 (17.9)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	SSTD50	SSTD50	S0830CC2	08/29/00	1008
02	SSTD20	SSTD20	S0830CC1	08/29/00	1041
03	SSTD80	SSTD80	S0830CC3	08/29/00	1115
04	SSTD120	SSTD120	S0830CC4	08/29/00	1149
05	SSTD160	SSTD160	S0830CC5	08/29/00	1223
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

672 938

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0I220208

Lab File ID: S0929DF2

DFTPP Injection Date: 09/29/00

Instrument ID: 71

DFTPP Injection Time: 0825

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	33.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	33.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	46.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	21.0
365	Greater than 1.0% of mass 198	2.43
441	Present, but less than mass 443	12.5
442	Greater than 40.0% of mass 198	82.7
443	17.0 - 23.0% of mass 442	15.5 (18.7)2

1-Value is % mass 69

2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	=====	=====	=====	=====	=====
01	SSTD50	SSTD50	S0929CCC	09/29/00	0842
02	INTRA-LAB BL	DL676101	S0929007	09/29/00	0948
03	INTRA-LAB CH	DL676102	S0929008	09/29/00	1021
<i>MS</i> 04	DF/24-A/0265	DKVJW10L	S0929009	09/29/00	1054
<i>MSD</i> 05	DF/24-A/0265	DKVJW10M	S0929010	09/29/00	1128
06	DF/24-A/0265	DKVJW103	S0929011	09/29/00	1201
07	DF/24-A/0265	DKVK3103	S0929012	09/29/00	1235
08	DF/24-A/0265	DKVK4103	S0929013	09/29/00	1308
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

672 939

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0I220208

Lab File ID (Standard): S0929CCC

Date Analyzed: 09/29/00

Instrument ID: 71

Time Analyzed: 0842

	IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	187768	4.97	684103	6.48	326887	9.50
UPPER LIMIT	375536	5.47	1368206	6.98	653774	10.00
LOWER LIMIT	93884	4.47	342052	5.98	163444	9.00
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	226120	4.97	862469	6.49	454147	9.50
02 INTRA-LAB CH	213747	4.97	804360	6.49	410231	9.50
MS 03 DF/24-A/0265	207992	4.98	798685	6.49	414077	9.51
MS 04 DF/24-A/0265	228467	4.98	877776	6.49	452129	9.50
05 DF/24-A/0265	221826	4.98	850046	6.49	442455	9.50
06 DF/24-A/0265	239571	4.98	918416	6.49	481901	9.51
07 DF/24-A/0265	235999	4.98	903667	6.49	468036	9.51
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

672 940

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0I220208

Lab File ID (Standard): S0929CCC

Date Analyzed: 09/29/00

Instrument ID: 71

Time Analyzed: 0842

	IS4 (PHN)	RT #	IS5 (CRY)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	441990	12.79	351038	19.41	360291	22.78
UPPER LIMIT	883980	13.29	702076	19.91	720582	23.28
LOWER LIMIT	220995	12.29	175519	18.91	180146	22.28
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 INTRA-LAB BL	678516	12.79	360012	19.41	293812	22.78
02 INTRA-LAB CH	608431	12.79	404723	19.41	342877	22.77
ms 03 DF/24-A/0265	620474	12.80	364664	19.42	310059	22.78
ms 04 DF/24-A/0265	662258	12.80	397161	19.42	332035	22.78
05 DF/24-A/0265	650758	12.80	367004	19.42	319332	22.78
06 DF/24-A/0265	718741	12.80	402274	19.42	333010	22.78
07 DF/24-A/0265	693231	12.80	394633	19.42	338966	22.78
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.

672 941

**GC/MS SEMIVOLATILE
SAMPLE DATA**

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DKVJW103

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 11

QC Batch: 0272099

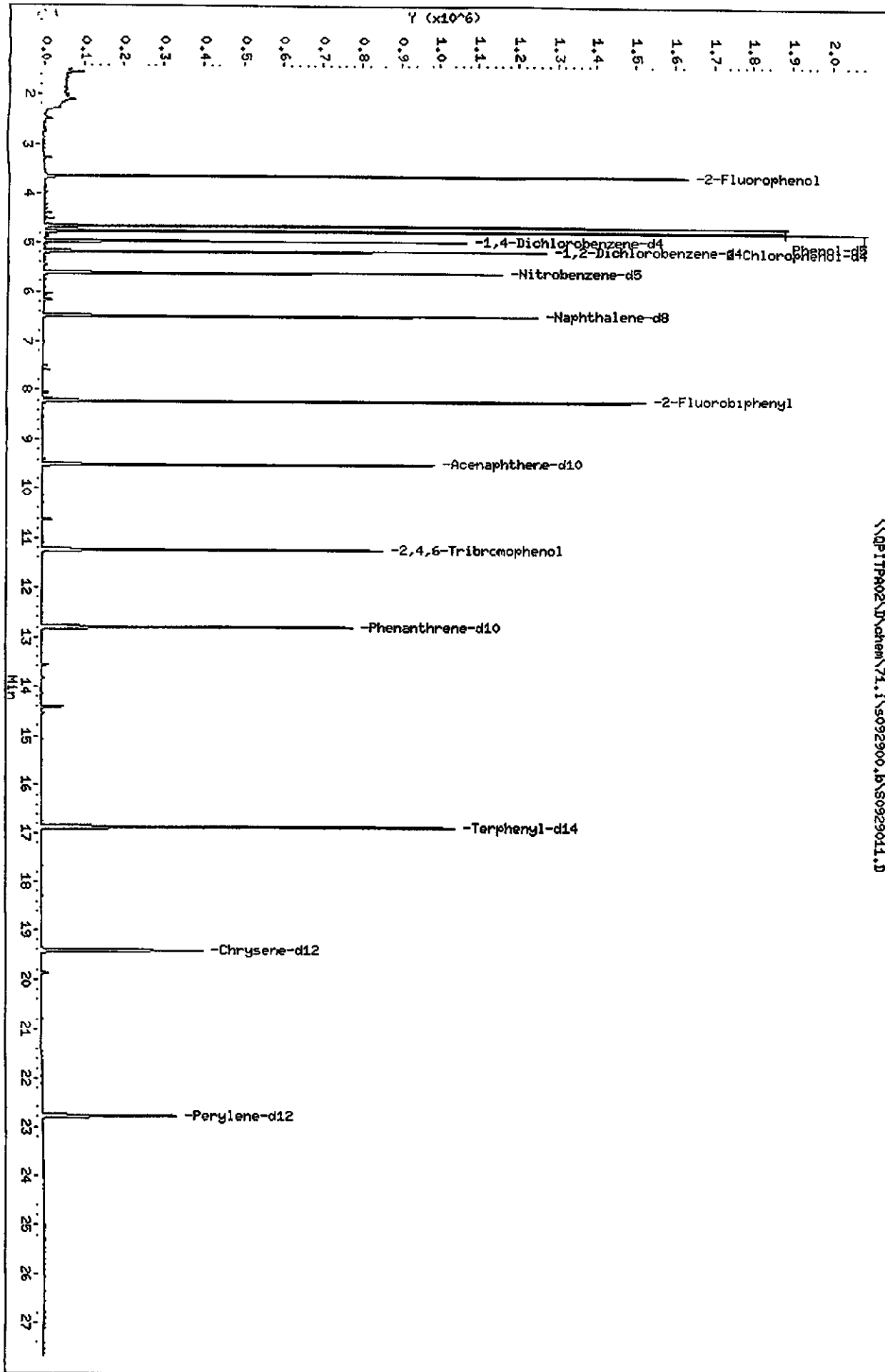
Client Sample Id: DF/24-A/0265/SDC/001

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

Data File: \\QPI7PA02\\chem\\71.i\\S092900.b\\S0929011.D
Date: 29-SEP-2000 12:01
Client ID: DF/24-R/0265/SDC/00
Sample Info: c01220208-001 9/27/00 82700 tcip
Volume Injected (uL): 2.0
Column phase: Hp5-HS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



\\QPI7PA02\\chem\\71.i\\S092900.b\\S0929011.D

Data File: \\QPITPA02\D\chem\71.i\s092900.b\S0929011.D
 Report Date: 29-Sep-2000 12:32

Page 1

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s092900.b\S0929011.D
 Lab Smp Id: DKVJW103 Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 29-SEP-2000 12:01
 Operator : 045183 Inst ID: 71.i
 Smp Info : c0i220208-001 9/27/00 8270c tclp
 Misc Info : dkvjw103,s092900.b,8270clp.m,1-tclp.sub,
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s092900.b\8270clp.m
 Meth Date : 29-Sep-2000 10:58 bachas Quant Type: ISTD
 Cal Date : 29-AUG-2000 10:08 Cal File: S0830CC2.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-tclp.sub
 Target Version: 4.04
 Processing Host: PITPC050

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.001	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	200.000	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	FINAL
	MASS					(ng)	(mg/L)
*****	****	==	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	4.978	4.966	(1.000)	221826	40.0000	(a)
* 2 Naphthalene-d8	136	6.490	6.483	(1.000)	850046	40.0000	(a)
* 3 Acenaphthene-d10	164	9.503	9.496	(1.000)	442455	40.0000	(a)
* 4 Phenanthrene-d10	188	12.799	12.787	(1.000)	650758	40.0000	(a)
* 5 Chrysene-d12	240	19.418	19.411	(1.000)	367004	40.0000	(a)
* 6 Perylene-d12	264	22.778	22.777	(1.000)	319332	40.0000	(a)
10 Pyridine	79				Compound Not Detected		
28 1,4-Dichlorobenzene	146				Compound Not Detected.		
M 34 Cresols, total	100				Compound Not Detected.		
31 2-Methylphenol	108				Compound Not Detected.		
35 4-Methylphenol	108				Compound Not Detected.		
38 Hexachloroethane	117				Compound Not Detected.		
39 Nitrobenzene	77				Compound Not Detected.		

672 945

Data File: \\QPITPA02\D\chem\71.i\s092900.b\S0929011.D
Report Date: 29-Sep-2000 12:32

Page 2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (mg/L)
=====	=====	==	=====	=====	=====	=====	=====
59 Hexachlorobutadiene	224				Compound Not Detected.		
69 2,4,6-Trichlorophenol	196				Compound Not Detected.		
70 2,4,5-Trichlorophenol	196				Compound Not Detected.		
91 2,4-Dinitrotoluene	165				Compound Not Detected.		
113 Hexachlorobenzene	283				Compound Not Detected.		
117 Pentachlorophenol	265				Compound Not Detected.		
\$ 172 Nitrobenzene-d5	82	5.624	5.612	(0.867)	498201	67.0645	0.16766(a)
\$ 173 2-Fluorobiphenyl	172	8.220	8.214	(0.865)	836299	51.7497	0.12937(a)
\$ 174 Terphenyl-d14	244	16.869	16.858	(0.869)	803951	113.239	0.28310(a)
\$ 175 Phenol-d5	99	4.668	4.656	(0.938)	860124	98.5373	0.24634(a)
\$ 176 2-Fluorophenol	112	3.658	3.636	(0.735)	615158	84.9199	0.21230(a)
\$ 177 2,4,6-Tribromophenol	330	11.239	11.227	(0.878)	197737	101.274	0.25318(a)
\$ 178 2-Chlorophenol-d4	132	4.775	4.763	(0.959)	727712	107.337	0.26834(a)
\$ 179 1,2-Dichlorobenzene-d4	152	5.181	5.169	(1.041)	248093	51.4032	0.12851(a)

QC Flag Legend

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DKVK3103

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 27

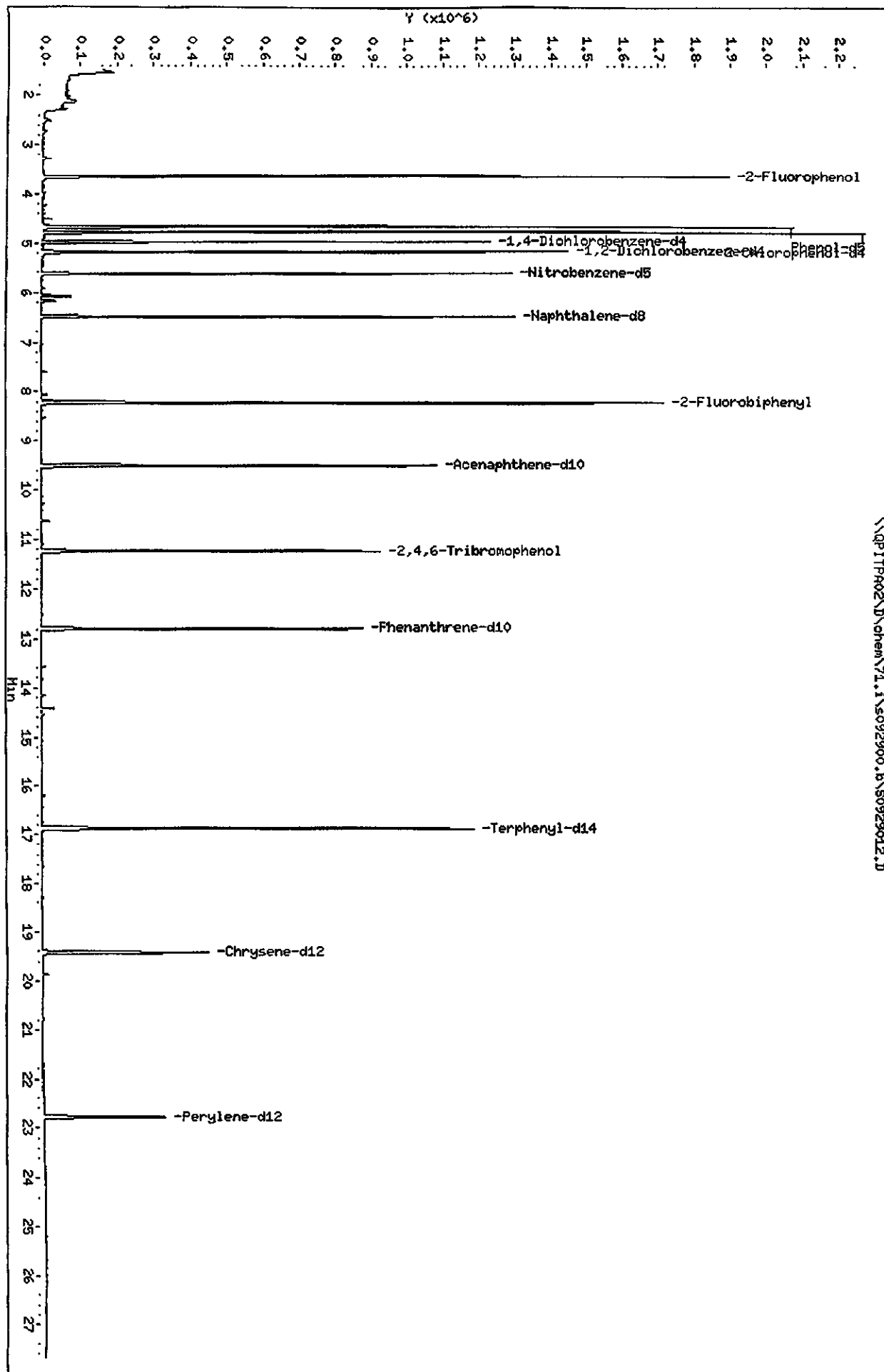
QC Batch: 0272099

Client Sample Id: DF/24-A/0265/SDC/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

Data File: \\QPIITPA02\\chem\\71.1\\S092900.b\\S0929012.D
Date: 29-SEP-2000 12:35
Client ID: DF/24-A/0265/SDC/00
Sample Info: c0120208-002 9/27/00 82700 tcjp
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



Data File: \\QPITPA02\D\chem\71.i\s092900.b\S0929012.D
Report Date: 29-Sep-2000 13:18

Page 1

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s092900.b\S0929012.D
Lab Smp Id: DKVK3103 Client Smp ID: DF/24-A/0265/SDC/00
Inj Date : 29-SEP-2000 12:35
Operator : 045183 Inst ID: 71.i
Smp Info : c0i220208-002 9/27/00 8270c tclp
Misc Info : dkvk3103,s092900.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s092900.b\8270clp.m
Meth Date : 29-Sep-2000 10:58 bachas Quant Type: ISTD
Cal Date : 29-AUG-2000 10:08 Cal File: S0830CC2.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{gpc}$

9/29/00

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.001	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	200.000	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 (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.976	4.966	(1.000)	239571	40.0000	(a)
* 2 Naphthalene-d8	136	6.488	6.483	(1.000)	918416	40.0000	(a)
* 3 Acenaphthene-d10	164	9.506	9.496	(1.000)	481901	40.0000	(a)
* 4 Phenanthrene-d10	188	12.797	12.787	(1.000)	718741	40.0000	(a)
* 5 Chrysene-d12	240	19.416	19.411	(1.000)	402274	40.0000	(a)
* 6 Perylene-d12	264	22.781	22.777	(1.000)	333010	40.0000	(a)
10 Pyridine	79	Compound Not Detected.					
28 1,4-Dichlorobenzene	146	Compound Not Detected.					
M 34 Cresols, total	100	Compound Not Detected.					
31 2-Methylphenol	108	Compound Not Detected.					
35 4-Methylphenol	108	Compound Not Detected.					
38 Hexachloroethane	117	Compound Not Detected.					
39 Nitrobenzene	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (mg/L)
59 Hexachlorobutadiene	224						
69 2,4,6-Trichlorophenol	196						
70 2,4,5-Trichlorophenol	196						
91 2,4-Dinitrotoluene	165						
113 Hexachlorobenzene	283						
117 Pentachlorophenol	265						
\$ 172 Nitrobenzene-d5	82	5.622	5.612	(0.867)	559587	69.7203	0.17430 (a)
\$ 173 2-Fluorobiphenyl	172	8.224	8.214	(0.865)	949762	53.9599	0.13490 (a)
\$ 174 Terphenyl-d14	244	16.867	16.858	(0.869)	916573	117.784	0.29446 (a)
\$ 175 Phenol-d5	99	4.666	4.656	(0.938)	975660	103.494	0.25873 (a)
\$ 176 2-Fluorophenol	112	3.662	3.636	(0.736)	699673	89.4325	0.22358 (a)
\$ 177 2,4,6-Tribromophenol	330	11.237	11.227	(0.878)	217130	100.688	0.25172 (a)
\$ 178 2-Chlorophenol-d4	132	4.778	4.763	(0.960)	813700	111.130	0.27782 (a)
\$ 179 1,2-Dichlorobenzene-d4	152	5.184	5.169	(1.042)	288657	55.3776	0.13844 (a)

QC Flag Legend

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

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 003

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DKVK4103

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 15

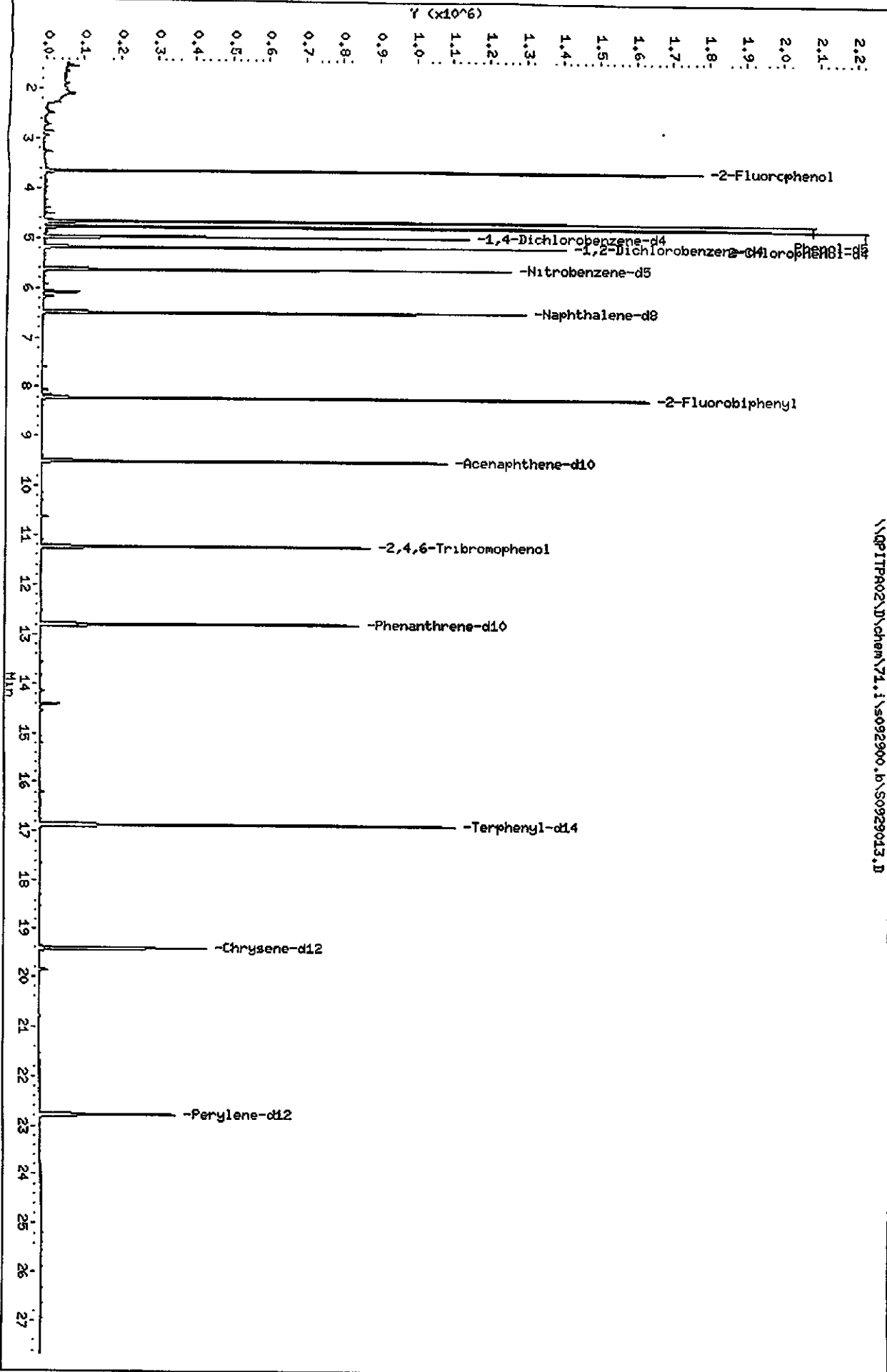
QC Batch: 0272099

Client Sample Id: DF/24-A/0265/SDC/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

Data File: \\QPI1P002\\N\\chem\\71.i\\s092900.b\\s0929013.D
Date: 29-SEP-2000 13:08
Client ID: DF/24-A/0265/SDC/00
Sample Info: c01202008-003 9/27/00 82700 tolp
Volume Injected (ul): 2.0
Column phase: He5-MS

Instrument: 71.i
Operator: 045183
Column diameter: 0.25



Data File: \\QPITPA02\D\chem\71.i\s092900.b\S0929013.D
Report Date: 29-Sep-2000 13:37

Page 1

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s092900.b\S0929013.D
Lab Smp Id: DKVK4103 Client Smp ID: DF/24-A/0265/SDC/00
Inj Date : 29-SEP-2000 13:08
Operator : 045183 Inst ID: 71.i
Smp Info : c0i220208-003 9/27/00 8270c tclp
Misc Info : dkvk4103,s092900.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s092900.b\8270clp.m
Meth Date : 29-Sep-2000 10:58 bachas Quant Type: ISTD
Cal Date : 29-AUG-2000 10:08 Cal File: S0830CC2.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

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

6/8/00

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.001	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	200.000	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 (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.977	4.966	(1.000)	235999	40.0000	(a)
* 2 Naphthalene-d8	136	6.488	6.483	(1.000)	903667	40.0000	(a)
* 3 Acenaphthene-d10	164	9.507	9.496	(1.000)	468036	40.0000	(a)
* 4 Phenanthrene-d10	188	12.797	12.787	(1.000)	693231	40.0000	(a)
* 5 Chrysene-d12	240	19.416	19.411	(1.000)	394633	40.0000	(a)
* 6 Perylene-d12	264	22.777	22.777	(1.000)	338966	40.0000	(a)
10 Pyridine	79	Compound Not Detected.					
28 1,4-Dichlorobenzene	146	Compound Not Detected.					
M 34 Cresols, total	100	Compound Not Detected.					
31 2-Methylphenol	108	Compound Not Detected.					
35 4-Methylphenol	108	Compound Not Detected.					
38 Hexachloroethane	117	Compound Not Detected.					
39 Nitrobenzene	77	Compound Not Detected.					

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ng)	(mg/L)
=====	====	==	=====	=====	=====	=====	=====	
59 Hexachlorobutadiene	224	Compound Not Detected.						
69 2,4,6-Trichlorophenol	196	Compound Not Detected.						
70 2,4,5-Trichlorophenol	196	Compound Not Detected.						
91 2,4-Dinitrotoluene	165	Compound Not Detected.						
113 Hexachlorobenzene	283	Compound Not Detected.						
117 Pentachlorophenol	265	Compound Not Detected.						
\$ 172 Nitrobenzene-d5	82	5.623	5.612	(0.867)	534904	67.7328	0.16933 (a)	
\$ 173 2-Fluorobiphenyl	172	8.225	8.214	(0.865)	914904	53.5193	0.13380 (a)	
\$ 174 Terphenyl-d14	244	16.868	16.858	(0.869)	857613	112.341	0.28085 (a)	
\$ 175 Phenol-d5	99	4.667	4.656	(0.938)	924220	99.5217	0.24880 (a)	
\$ 176 2-Fluorophenol	112	3.652	3.636	(0.734)	657339	85.2933	0.21323 (a)	
\$ 177 2,4,6-Tribromophenol	330	11.238	11.227	(0.878)	207552	99.7883	0.24947 (a)	
\$ 178 2-Chlorophenol-d4	132	4.774	4.763	(0.959)	773404	107.226	0.26806 (a)	
\$ 179 1,2-Dichlorobenzene-d4	152	5.180	5.169	(1.041)	271964	52.9650	0.13241 (a)	

QC Flag Legend

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

**GC/MS SEMIVOLATILE
CALIBRATION DATA**

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.:

Instrument ID: 71

Calibration Date(s): 08/29/00

Min RRF for SPCC(#) = 0.050

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:	RRF1 =S0830CC1.D	RRF2 =S0830CC2.D					
RRF3 =S0830CC3.D	RRF4 =S0830CC4.D	RRF5 =S0830CC5.D					
COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	RRF	% RSD
Phenol	* 1.883	1.730	1.691	1.493	1.360	1.631	12.6*
bis(2-Chloroethyl)ether	1.446	1.358	1.358	1.289	1.224	1.335	6.2
2-Chlorophenol	1.478	1.372	1.377	1.283	1.202	1.342	7.8
1,3-Dichlorobenzene	1.578	1.506	1.521	1.435	1.351	1.478	5.9
1,4-Dichlorobenzene	* 1.617	1.518	1.539	1.431	1.343	1.490	7.1*
1,2-Dichlorobenzene	1.473	1.399	1.393	1.278	1.162	1.341	9.1
2-Methylphenol	1.246	1.146	1.188	1.146	1.129	1.171	4.0
2,2'-oxybis(1-Chloropropane	1.786	1.698	1.715	1.618	1.580	1.679	4.9
4-Methylphenol	1.308	1.195	1.203	1.076	1.000	1.156	10.4
Hexachloroethane	0.545	0.536	0.538	0.515	0.499	0.527	3.6
Nitrobenzene	0.355	0.348	0.363	0.352	0.344	0.352	2.1
Isophorone	0.599	0.572	0.609	0.585	0.579	0.589	2.6
2-Nitrophenol	* 0.189	0.189	0.204	0.202	0.203	0.197	4.0*
2,4-Dimethylphenol	0.319	0.301	0.320	0.313	0.309	0.312	2.5
bis(2-Chloroethoxy)methane	0.416	0.400	0.417	0.403	0.390	0.405	2.9
N-Nitroso-di-n-propylamine	# 0.865	0.806	0.847	0.817	0.827	0.832	2.8#
2,4-Dichlorophenol	* 0.273	0.261	0.280	0.276	0.272	0.272	2.6*
1,2,4-Trichlorobenzene	0.312	0.298	0.318	0.310	0.296	0.307	3.1
Naphthalene	1.099	1.056	1.082	1.032	0.964	1.047	5.0
4-Chloroaniline	0.414	0.394	0.417	0.400	0.397	0.404	2.6
Hexachlorobutadiene	* 0.154	0.151	0.162	0.160	0.152	0.156	3.2*
4-Chloro-3-Methylphenol	* 0.238	0.229	0.250	0.244	0.251	0.242	3.8*
2-Methylnaphthalene	0.665	0.633	0.681	0.657	0.637	0.655	3.0
Hexachlorocyclopentadiene	# 0.354	0.354	0.408	0.429	0.425	0.394	9.5#
2,4,6-Trichlorophenol	* 0.375	0.356	0.396	0.402	0.405	0.387	5.4*
2,4,5-Trichlorophenol	0.389	0.361	0.405	0.409	0.412	0.395	5.3
2-Chloronaphthalene	1.351	1.269	1.335	1.278	1.143	1.275	6.4
2-Nitroaniline	0.268	0.276	0.305	0.305	0.314	0.294	6.9
Dimethylphthalate	1.204	1.144	1.269	1.264	1.272	1.231	4.6
Acenaphthylene	1.866	1.803	1.958	1.947	1.917	1.898	3.4
2,6-Dinitrotoluene	0.245	0.249	0.288	0.288	0.297	0.273	8.9
3-Nitroaniline	0.285	0.292	0.327	0.326	0.342	0.314	7.8
Acenaphthene	* 1.180	1.129	1.224	1.220	1.213	1.193	3.3*
2,4-Dinitrophenol	# 0.056	0.104	0.136	0.157	0.178	0.126	37.7#
4-Nitrophenol	# 0.089	0.103	0.111	0.118	0.129	0.110	13.9#
Dibenzofuran	1.587	1.502	1.635	1.618	1.611	1.591	3.3
2,4-Dinitrotoluene	0.281	0.292	0.334	0.339	0.359	0.321	10.3

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.:

Instrument ID: 71

Calibration Date(s): 08/29/00

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

Max %RSD for CCC(*) = 30.0%

LAB FILE ID:	RRF1	=S0830CC1.D	RRF2	=S0830CC2.D			
RRF3 =S0830CC3.D	RRF4	=S0830CC4.D	RRF5	=S0830CC5.D			
COMPOUND	RRF1	RRF2	RRF3	RRF4	RRF5	$\overline{RRF}$	% RSD
Diethylphthalate	1.025	1.032	1.149	1.152	1.188	1.109	6.8
4-Chlorophenyl-phenylether	0.548	0.532	0.592	0.602	0.612	0.577	6.1
Fluorene	1.176	1.165	1.295	1.300	1.312	1.250	5.8
4-Nitroaniline	0.228	0.259	0.278	0.286	0.310	0.272	11.3
4,6-Dinitro-2-methylphenol	0.096	0.128	0.155	0.172	0.182	0.147	23.9
N-Nitrosodiphenylamine (1)	* 0.622	0.613	0.694	0.706	0.708	0.669	7.1*
4-Bromophenyl-phenylether	0.213	0.203	0.245	0.252	0.259	0.234	10.7
Hexachlorobenzene	0.227	0.213	0.260	0.266	0.270	0.247	10.3
Pentachlorophenol	* 0.092	0.114	0.134	0.148	0.161	0.130	20.9*
Phenanthrene	1.124	1.095	1.238	1.270	1.294	1.204	7.4
Anthracene	1.116	1.123	1.281	1.308	1.332	1.232	8.5
Carbazole	0.892	0.968	1.081	1.150	1.206	1.059	12.2
Di-n-Butylphthalate	0.954	1.085	1.247	1.330	1.396	1.202	15.1
Fluoranthene	* 0.776	0.914	1.050	1.167	1.253	1.032	18.6*
Pyrene	1.287	1.027	1.080	0.988	0.982	1.073	11.7
Butylbenzylphthalate	0.490	0.471	0.487	0.475	0.495	0.484	2.1
3,3'-Dichlorobenzidine	0.432	0.442	0.512	0.513	0.510	0.482	8.5
Benzo(a)Anthracene	0.993	0.963	1.035	1.045	1.075	1.022	4.3
Chrysene	1.004	0.930	1.016	1.007	1.025	0.996	3.8
bis(2-ethylhexyl)Phthalate	0.674	0.667	0.693	0.703	0.722	0.692	3.2
Di-n-octylphthalate	* 1.247	1.224	1.445	1.537	1.536	1.398	11.0*
Benzo(b)fluoranthene	1.089	1.118	1.411	1.408	1.709	1.347	18.9
Benzo(k)fluoranthene	1.434	1.497	1.821	1.887	1.505	1.629	12.8
Benzo(a)pyrene	* 1.081	1.096	1.373	1.463	1.481	1.299	15.1*
Indeno(1,2,3-cd)pyrene	1.653	1.662	2.084	2.213	2.292	1.981	15.4
Dibenz(a,h)anthracene	1.472	1.487	1.898	2.016	2.069	1.788	16.2
Benzo(g,h,i)perylene	1.445	1.399	1.723	1.851	1.992	1.682	15.2
Pyridine	1.261	1.181	1.218	1.158	1.134	1.190	4.2
N-Nitrosodimethylamine	0.773	0.745	0.730	0.701	0.694	0.729	4.4
Aniline	1.852	1.707	1.737	1.571	1.433	1.660	9.7
Benzyl Alcohol	0.934	0.880	0.953	0.905	0.889	0.912	3.4
Benzoic Acid	0.086	0.118	0.162	0.173	0.186	0.145	28.9
1-Methylnaphthalene	0.622	0.587	0.654	0.625	0.606	0.619	4.0
2,3,4,6-Tetrachlorophenol	0.228	0.227	0.277	0.277	0.294	0.261	11.9
2,3,5,6-Tetrachlorophenol	0.220	0.230	0.280	0.282	0.296	0.262	13.0

SDG No. :

Max %RSD for CCC(*) = 30.0%

2028

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0830CC2.D
Analysis Type: NONE

Injection Date: 29-AUG-2000 10:08
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.1\s082900.b\

COMPOUND	%RSD
-----	-----
Benzo(b)fluoranthene	18.9
Benzo(k)fluoranthene	12.8
7,12-dimethylbenz[a]anthracen	17.2
Benzo(a)pyrene	15.1
Indeno(1,2,3-cd)pyrene	15.4
Dibenz(a,h)anthracene	16.2
Benzo(g,h,i)perylene	15.2

The average of all %RSD's in the initial calibration is 8.4

INITIAL CALIBRATION REPORT

Instrument ID: 71.i
Lab File ID: S0830CC2.D
Analysis Type: NONE

Injection Date: 29-AUG-2000 10:08
Lab Sample ID: sstd50
Method File: \\QIPITPA02\D\chem\71.i\s082900.b\8270clp

COMPOUND	%RSD
N-Nitrosodimethylamine	4.4
Pyridine	4.2
Methyl methanesulfonate	2.3
2-Fluorophenol	5.3
Phenol-d5	8.3
Phenol	12.6
Aniline	9.7
bis(2-Chloroethyl) ether	6.2
2-Chlorophenol-d4	7.4
2-Chlorophenol	7.8
1,3-Dichlorobenzene	5.9
1,4-Dichlorobenzene	7.1
Benzyl Alcohol	3.4
1,2-Dichlorobenzene-d4	8.6
1,2-Dichlorobenzene	9.1
2-Methylphenol	4.0
2,2'-oxybis(1-Chloropropane)	4.9
4-Methylphenol	10.4
N-Nitroso-di-n-propylamine	2.8
Hexachloroethane	3.6
Nitrobenzene-d5	1.9
Nitrobenzene	2.1
Isophorone	2.6
2-Nitrophenol	4.0
2,4-Dimethylphenol	2.5
Benzoic Acid	28.9
bis(2-Chloroethoxy)methane	2.9
2,4-Dichlorophenol	2.6
1,2,4-Trichlorobenzene	3.1
Napthalene	5.0
4-Chloroaniline	2.6
Hexachlorobutadiene	3.2
4-Chloro-3-Methylphenol	3.8
2-Methylnaphthalene	3.0
1-Methylnaphthalene	4.0
Hexachlorocyclopentadiene	9.5
2,4,6-Trichlorophenol	5.4
2,4,5-Trichlorophenol	5.3
2-Fluorobiphenyl	3.6

INITIAL CALIBRATION REPORT

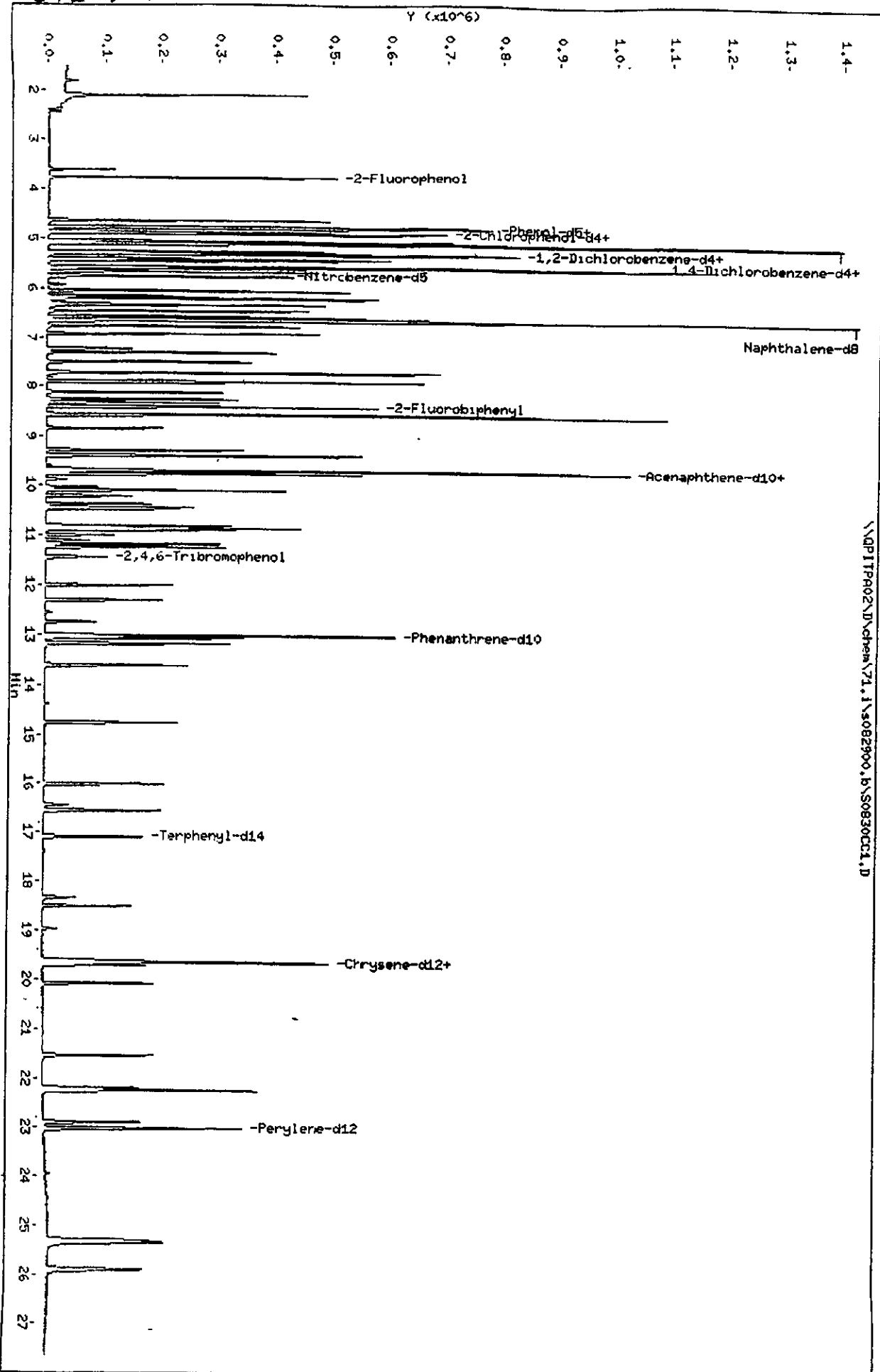
Instrument ID: 71.i
Lab File ID: S0830CC2.D
Analysis Type: NONE

Injection Date: 29-AUG-2000 10:08
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s082900.b\

COMPOUND	%RSD
2-Chloronaphthalene	6.4
2-Nitroaniline	6.9
Dimethylphthalate	4.6
Acenaphthylene	3.4
2,6-Dinitrotoluene	8.9
3-Nitroaniline	7.8
Acenaphthene	3.3
2,4-Dinitrophenol	37.7
4-Nitrophenol	13.9
Dibenzofuran	3.3
2,4-Dinitrotoluene	10.3
2,3,5,6-Tetrachlorophenol	13.0
2-Naphthylamine	5.1
2,3,4,6-Tetrachlorophenol	11.9
Diethylphthalate	6.8
Fluorene	5.8
4-Chlorophenyl-phenylether	6.1
4-Nitroaniline	11.3
4,6-Dinitro-2-methylphenol	23.9
N-Nitrosodiphenylamine (1)	7.1
1,2-Diphenylhydrazine	3.7
2,4,6-Tribromophenol	14.8
4-Bromophenyl-phenylether	10.7
Hexachlorobenzene	10.3
Pentachlorophenol	20.9
Phenanthrene	7.4
Anthracene	8.5
Carbazole	12.2
Di-n-Butylphthalate	15.1
Fluoranthene	18.6
Benzydine	8.5
Pyrene	11.7
Terphenyl-d14	7.8
Butylbenzylphthalate	2.1
Benzo(a) Anthracene	4.3
3,3'-Dichlorobenzidine	8.5
Chrysene	3.8
bis(2-ethylhexyl) Phthalate	3.2
Di-n-octylphthalate	11.0

Data File: \\QPI1P002\chem\71.1\5082900.b\50830CC1.D
Date: 29-AUG-2000 10:41
Client ID: std20
Sample Info: std20(10 ug/ml) 194-188-3 8270/cip
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270
Data file : \\QPITPA02\D\chem\71.i\s082900.b\S0830CC1.D
Lab Smp Id: sstd20 Client Smp ID: sstd20
Inj Date : 29-AUG-2000 10:41
Operator : 045183 Inst ID: 71.i
Smp Info : sstd20(10 ug/ml) 194-188-3 8270/clp
Misc Info : sstd20,s082900.b,8270clp.m,1-82701.sub,1,1
Comment :
Method : \\QPITPA02\D\chem\71.i\s082900.b\8270clp.m
Meth Date : 29-Aug-2000 11:36 bachas Quant Type: ISTD
Cal Date : 29-AUG-2000 10:41 Cal File: S0830CC1.D
Als bottle: 95 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

						AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
*****		----	--	-----	-----	-----	-----	-----
* 1	1,4-Dichlorobenzene-d4	152	5.099	5.099	(1.000)	292168	40.0000	
* 2	Naphthalene-d8	136	6.648	6.648	(1.000)	1040854	40.0000	
* 3	Acenaphthene-d10	164	9.704	9.704	(1.000)	447298	40.0000	
* 4	Phenanthrene-d10	188	13.021	13.021	(1.000)	524782	40.0000	
* 5	Chrysene-d12	240	19.656	19.656	(1.000)	318690	40.0000	
* 6	Perylene-d12	264	23.022	23.022	(1.000)	317565	40.0000	
13	N-Nitrosodimethylamine	74	2.075	2.075	(0.407)	112939	20.0000	20.375 (M)
10	Pyridine	79	2.080	2.080	(0.408)	184240	20.0000	20.657 (M)
19	Methyl methanesulfonate	80	3.608	3.608	(0.708)	49635	20.0000	20.422
22	Aniline	93	4.794	4.794	(0.940)	270525	20.0000	20.813
23	Phenol	94	4.778	4.778	(0.937)	275128	20.0000	20.852
24	bis(2-Chloroethyl)ether	93	4.864	4.864	(0.954)	211198	20.0000	20.622
25	2-Chlorophenol	128	4.906	4.906	(0.962)	215948	20.0000	20.748
27	1,3-Dichlorobenzene	146	5.061	5.061	(0.993)	230490	20.0000	20.466
28	1,4-Dichlorobenzene	146	5.120	5.120	(1.004)	236205	20.0000	20.633
29	1,2-Dichlorobenzene	146	5.328	5.328	(1.045)	215176	20.0000	20.518
30	Benzyl Alcohol	108	5.275	5.275	(1.035)	136466	20.0000	20.601 (M)
31	2-Methylphenol	108	5.425	5.425	(1.064)	182034	20.0000	20.840
32	2,2'-oxybis(1-Chloropropane)	45	5.457	5.457	(1.070)	260872	20.0000	20.506
33	N-Nitroso-di-n-propylamine	70	5.612	5.612	(1.101)	126332	20.0000	20.697
35	4-Methylphenol	108	5.580	5.580	(1.094)	191028	20.0000	20.902
38	Hexachloroethane	117	5.676	5.676	(1.113)	79678	20.0000	20.179
39	Nitrobenzene	77	5.783	5.783	(0.870)	184817	20.0000	20.191
44	Isophorone	82	6.060	6.060	(0.912)	311730	20.0000	20.466
45	2-Nitrophenol	139	6.173	6.173	(0.928)	98385	20.0000	20.023
46	2,4-Dimethylphenol	107	6.215	6.215	(0.935)	166145	20.0000	20.573

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
47 bis(2-Chloroethoxy)methane	93	6.343	6.343 (0.954)		216643	20.0000	20.399
51 2,4-Dichlorophenol	162	6.466	6.466 (0.973)		142330	20.0000	20.460
52 Benzoic Acid	122	6.349	6.349 (0.955)		44526	20.0000	16.790 (M)
53 1,2,4-Trichlorobenzene	180	6.589	6.589 (0.991)		162121	20.0000	20.449
54 Naphthalene	128	6.675	6.675 (1.004)		571858	20.0000	20.396
55 4-Chloroaniline	127	6.776	6.776 (1.019)		215645	20.0000	20.503
59 Hexachlorobutadiene	225	6.931	6.931 (1.043)		80203	20.0000	20.179
62 4-Chloro-3-Methylphenol	107	7.503	7.503 (1.129)		123705	20.0000	20.356
65 2-Methylnaphthalene	142	7.722	7.722 (1.162)		346320	20.0000	20.500
66 1-Methylnaphthalene	142	7.903	7.903 (1.189)		323602	20.0000	20.572
67 Hexachlorocyclopentadiene	237	8.117	8.117 (0.837)		79292	20.0000	20.012
69 2,4,6-Trichlorophenol	196	8.256	8.256 (0.851)		83810	20.0000	20.520
70 2,4,5-Trichlorophenol	196	8.320	8.320 (0.857)		86943	20.0000	20.731
73 2-Chloronaphthalene	162	8.571	8.571 (0.883)		302106	20.0000	20.624
77 2-Nitroaniline	65	8.833	8.833 (0.910)		59975	20.0000	19.702
80 Dimethylphthalate	163	9.282	9.282 (0.957)		269212	20.0000	20.509
92 2,6-Dinitrotoluene	165	9.405	9.405 (0.969)		54740	20.0000	19.826
83 Acenaphthylene	152	9.388	9.388 (0.968)		417337	20.0000	20.342
85 3-Nitroaniline	138	9.666	9.666 (0.996)		63748	20.0000	19.759
86 Acenaphthene	153	9.768	9.768 (1.007)		263899	20.0000	20.439
87 2,4-Dinitrophenol	184	9.885	9.885 (1.019)		12615	20.0000	14.020
89 4-Nitrophenol	109	10.040	10.040 (1.035)		19836	20.0000	18.532
90 Dibenzofuran	168	10.104	10.104 (1.041)		354936	20.0000	20.550
91 2,4-Dinitrotoluene	165	10.217	10.217 (1.053)		62796	20.0000	19.609
95 2,3,5,6-Tetrachlorophenol	232	10.382	10.382 (1.070)		49324	20.0000	19.596
92 2,3,4,6-Tetrachlorophenol	232	10.478	10.478 (1.080)		51124	20.0000	20.060
96 2-Naphtnylamine	143	10.446	10.446 (1.077)		191903	20.0000	21.010
97 Diethylphthalate	149	10.815	10.815 (1.115)		229214	20.0000	19.933
98 Fluorene	166	10.858	10.858 (1.119)		263140	20.0000	20.099
99 4-Chlorophenyl-phenylether	204	10.895	10.895 (1.123)		122531	20.0000	20.285
100 4-Nitroaniline	138	11.002	11.002 (1.134)		51023	20.0000	18.732
102 4,6-Dinitro-2-methylphenol	198	11.109	11.109 (0.853)		25130	20.0000	17.093
103 N-Nitrosodiphenylamine (1)	169	11.183	11.183 (0.859)		163155	20.0000	20.148
104 1,2-Diphenylhydrazine	77	11.242	11.242 (0.863)		252760	20.0000	20.484
112 4-Bromophenyl-phenylether	248	12.011	12.011 (0.922)		55863	20.0000	20.468
113 Hexachlorobenzene	284	12.311	12.311 (0.945)		59660	20.0000	20.634
117 Pentachlorophenol	266	12.743	12.743 (0.979)		24232	20.0000	17.884
122 Phenanthrene	178	13.069	13.069 (1.004)		294990	20.0000	20.261
123 Anthracene	178	13.176	13.176 (1.012)		292867	20.0000	19.939
126 Carbazole	167	13.614	13.614 (1.046)		234047	20.0000	19.184
130 Di-n-Butylphthalate	149	14.763	14.763 (1.134)		250282	20.0000	18.713
135 Fluoranthene	202	16.013	16.013 (1.230)		203653	20.0000	18.366
136 Benzidine	184	16.435	16.435 (0.836)		54528	20.0000	17.642
137 Pyrene	202	16.558	16.558 (0.842)		205099	20.0000	22.245
144 Butylbenzylphthalate	149	18.502	18.502 (0.941)		78139	20.0000	20.400
149 3,3'-Dichlorobenzidine	252	19.667	19.667 (1.001)		68930	20.0000	19.789
150 Benzo(a)Anthracene	228	19.619	19.619 (0.998)		158202	20.0000	20.307

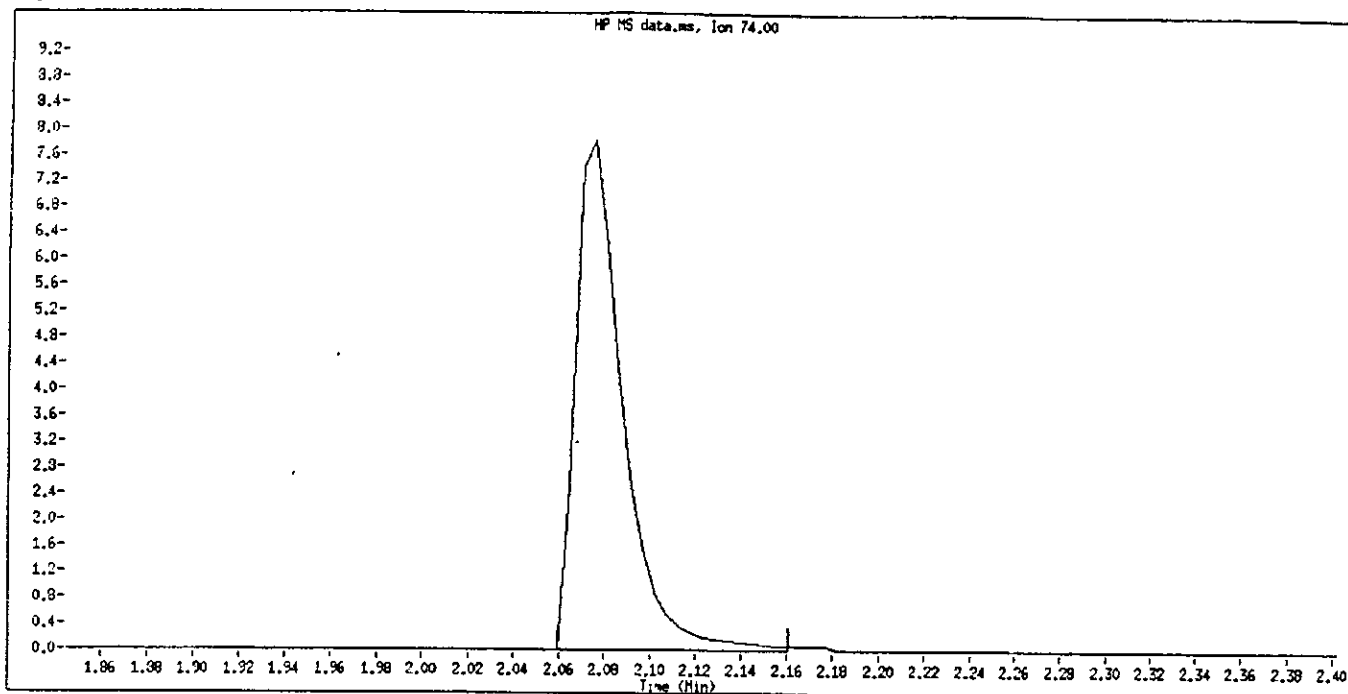
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
-----	----	==	=====	=====	-----	-----	-----
151 Chrysene	228	19.715	19.715	(1.003)	160072	20.0000	20.766
153 bis(2-ethylhexyl)Phthalate	149	20.078	20.078	(1.021)	107445	20.0000	20.104
155 Di-n-octylphthalate	149	21.547	21.547	(0.936)	197965	20.0000	20.186
157 Benzo(b)fluoranthene	252	22.199	22.199	(0.964)	172880	20.0000	19.733 (H)
158 Benzo(k)fluoranthene	252	22.252	22.252	(0.967)	227668	20.0000	19.571
159 7,12-dimethylbenz(a)anthracen	256	22.252	22.252	(0.967)	86529	20.0000	18.442
167 Benzo(a)pyrene	252	22.893	22.893	(0.994)	171639	20.0000	19.857
169 Indeno(1,2,3-cd)pyrene	276	25.303	25.303	(1.099)	262506	20.0000	19.944
170 Dibenz(a,h)anthracene	278	25.345	25.345	(1.101)	233788	20.0000	19.902
171 Benzo(g,h,i)perylene	276	25.896	25.896	(1.125)	229481	20.0000	20.324
\$ 172 Nitrobenzene-d5	82	5.761	5.761	(0.867)	180717	20.0000	20.135
\$ 173 2-Fluorobiphenyl	172	8.406	8.406	(0.866)	326614	20.0000	20.505
\$ 174 Terphenyl-d14	244	17.086	17.086	(0.869)	138577	20.0000	21.802
\$ 175 Phenol-d5	99	4.768	4.768	(0.935)	253033	20.0000	20.814
\$ 176 2-Fluorophenol	112	3.763	3.763	(0.738)	203178	20.0000	20.507
\$ 177 2,4,6-Tribromophenol	330	11.445	11.445	(0.879)	26986	20.0000	20.370
\$ 178 2-Chlorophenol-d4	132	4.890	4.890	(0.959)	193421	20.0000	20.762
\$ 179 1,2-Dichlorobenzene-d4	152	5.312	5.312	(1.042)	139105	20.0000	20.576

QC Flag Legend

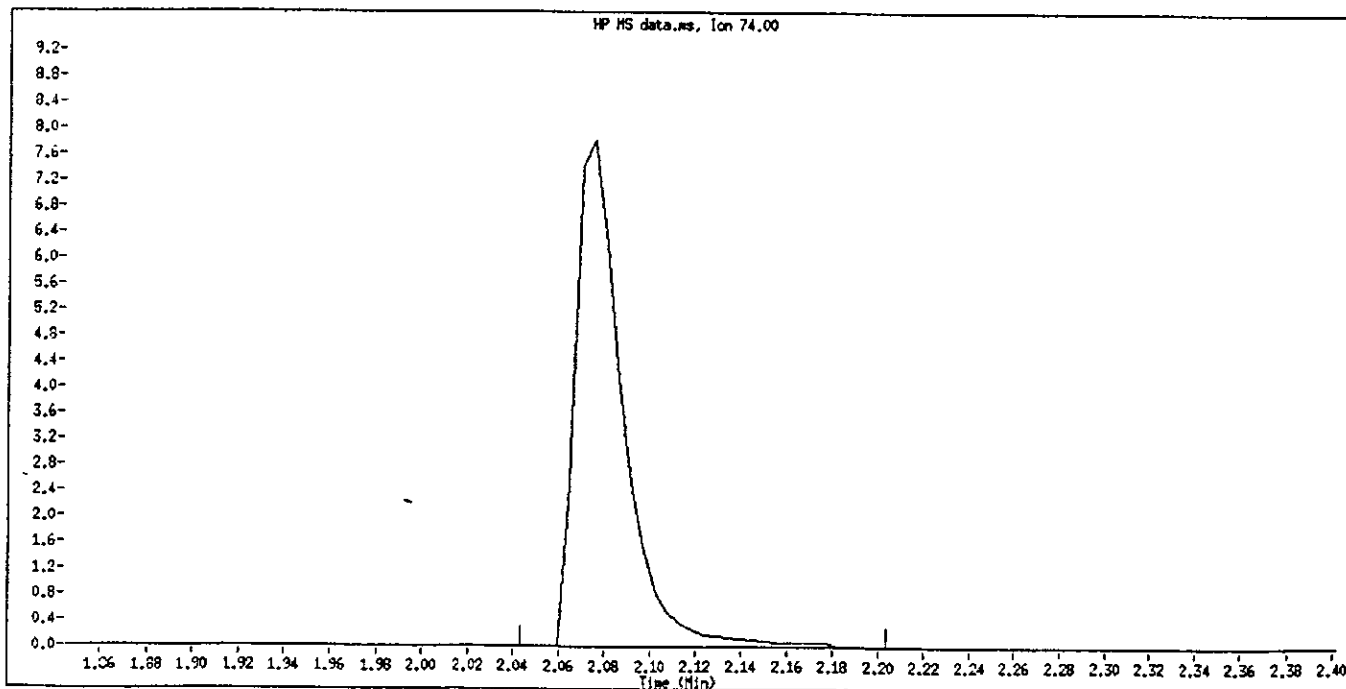
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

672 965

Data File Name S0830CC1.D
Inj Date and Time 29-AUG-2000 10:41
Instrument ID 711
Client ID sstd20
Compound Name N-Nitrosodimethylamine
CAS # 62-75-9
Report Date 08/29/2000



Original Integration

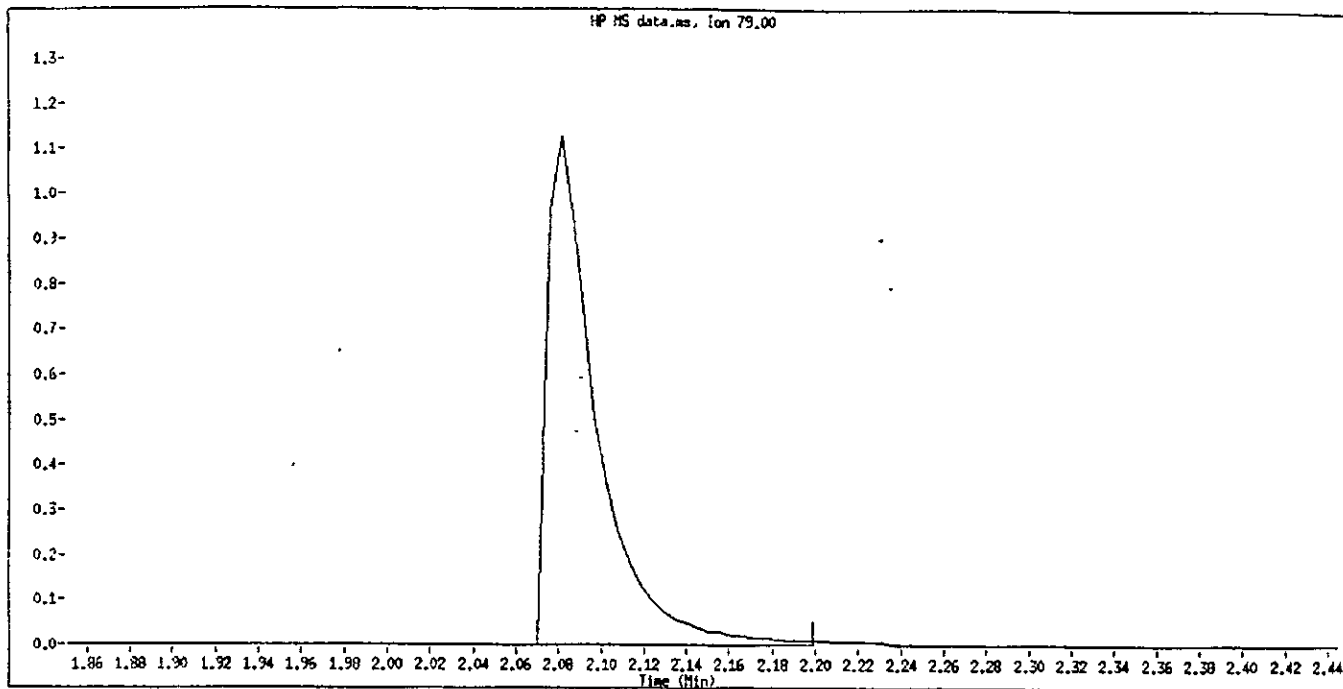


Manual Integration

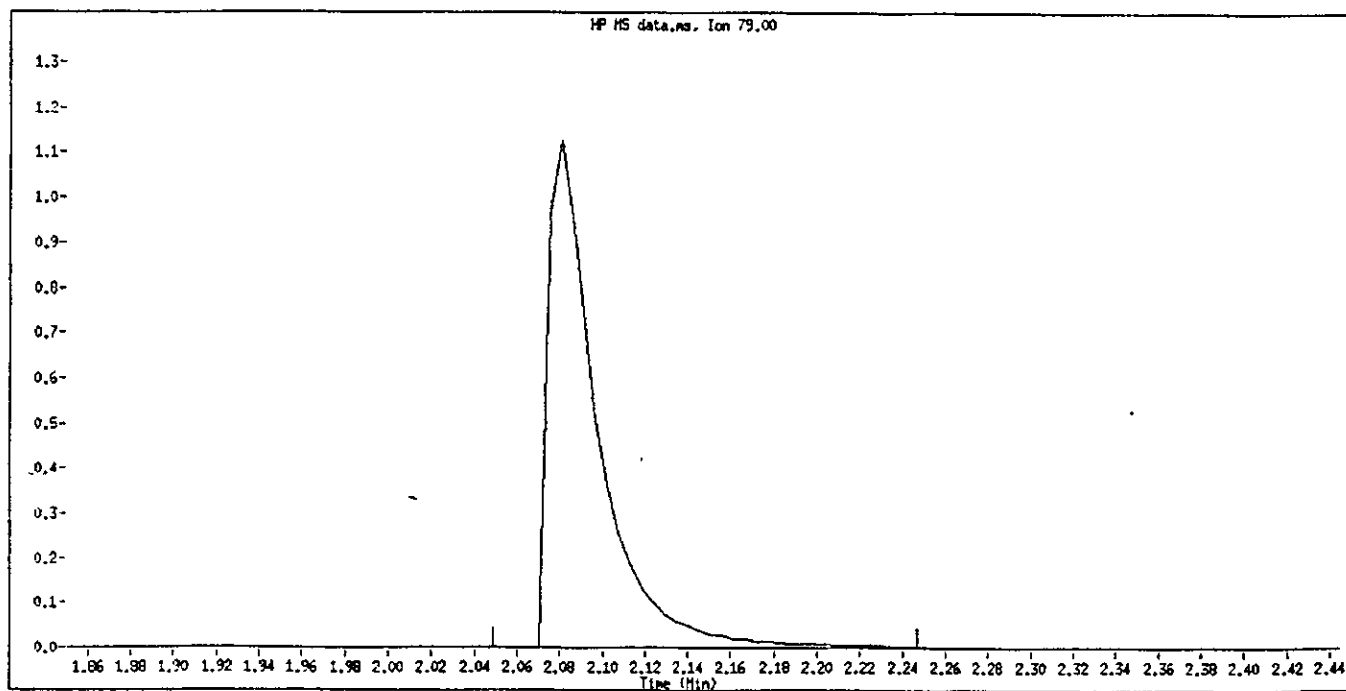
Manually Integrated By BachaS
Manual Integration Reason: Poor Chromatography

Data File Name S0830CC1.D
Inj Date and Time 29-AUG-2000 10:41
Instrument ID 711
Client ID sstd20
Compound Name Pyridine
CAS # 110-86-1
Report Date 08/29/2000

672 966



Original Integration

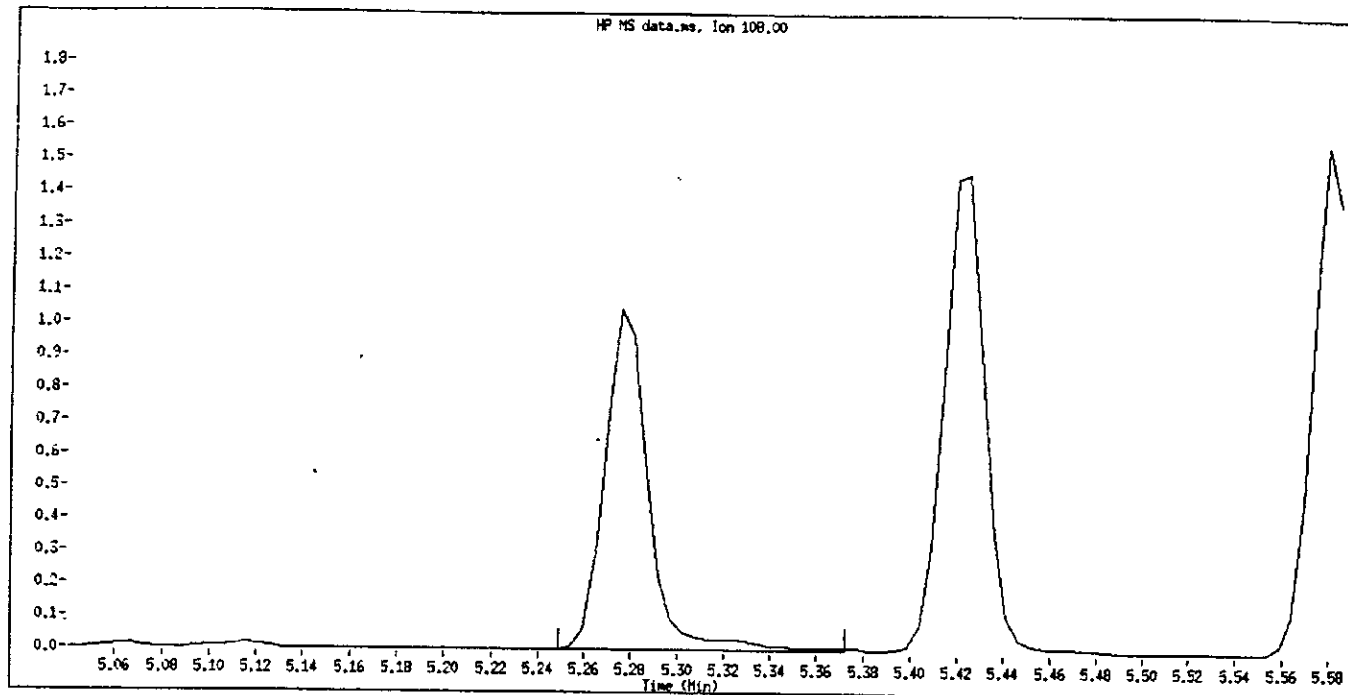


Manual Integration

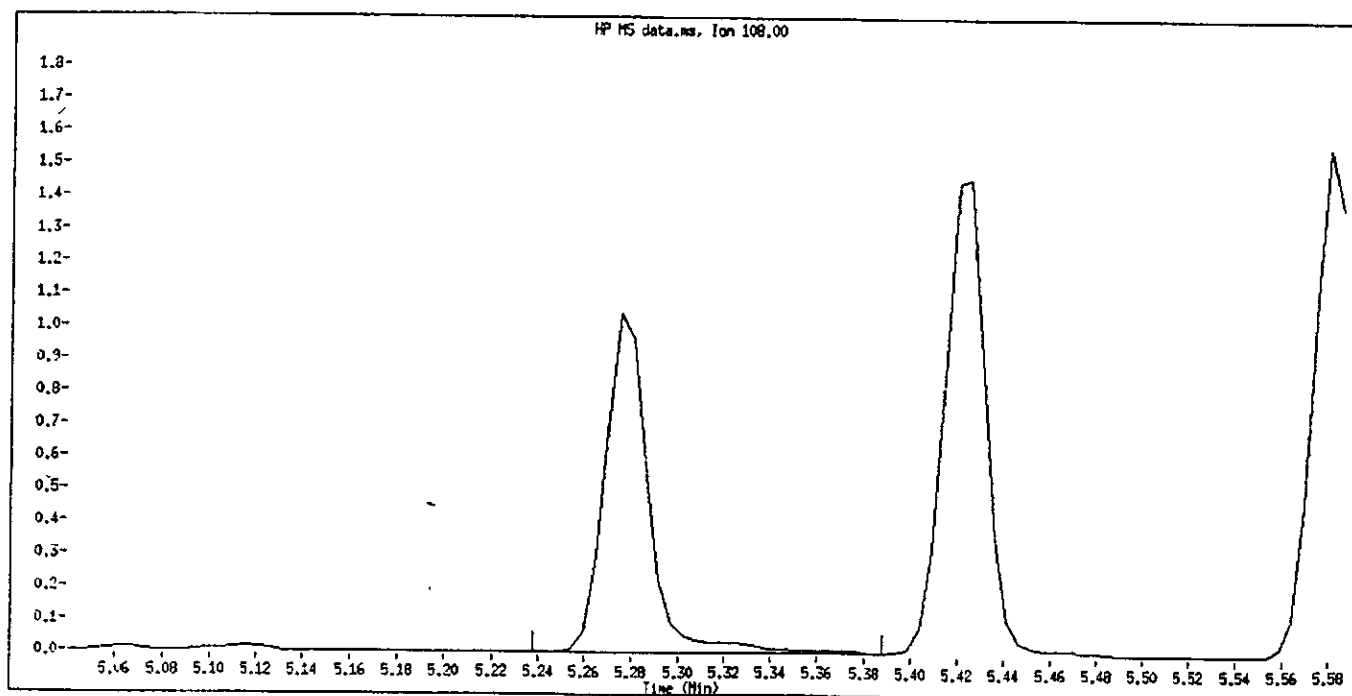
Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

672 967

Data File Name S0830CC1.D
Inj Date and Time 29-AUG-2000 10:41
Instrument ID 71.1
Client ID sstd20
Compound Name Benzyl Alcohol
CAS # 100-51-6
Report Date 08/29/2000



Original Integration

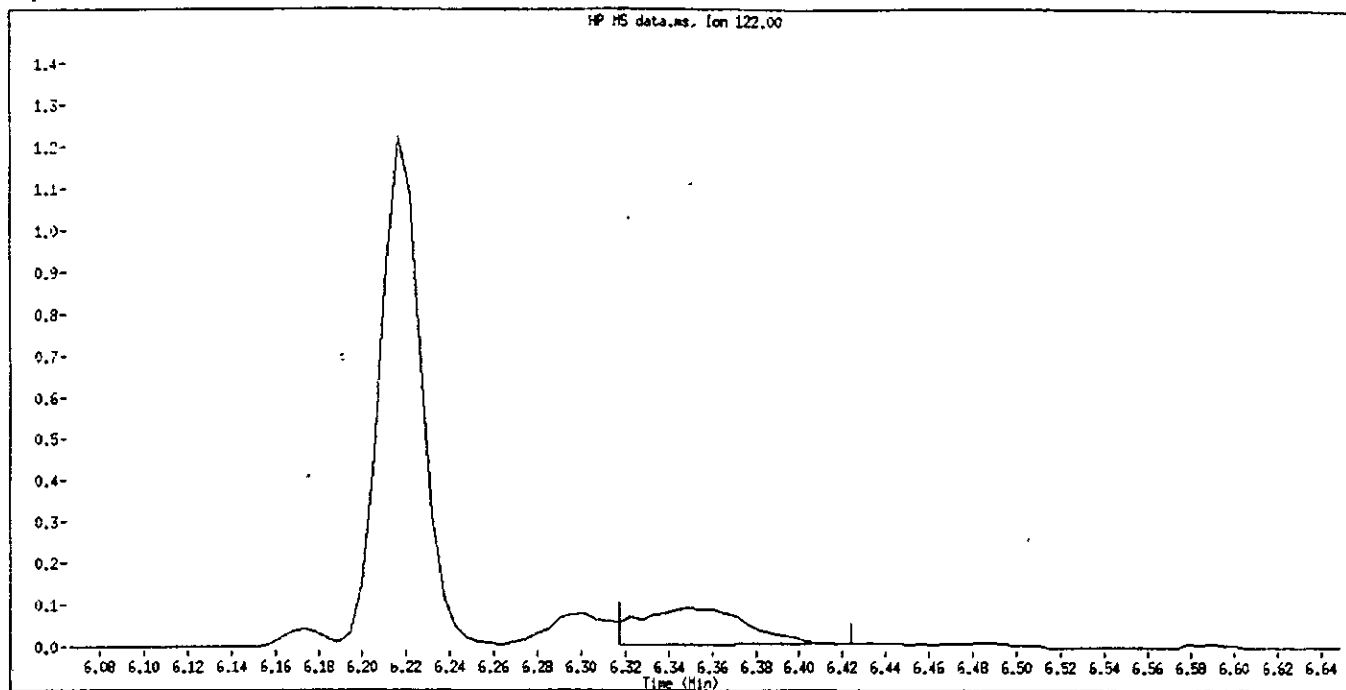


Manual Integration

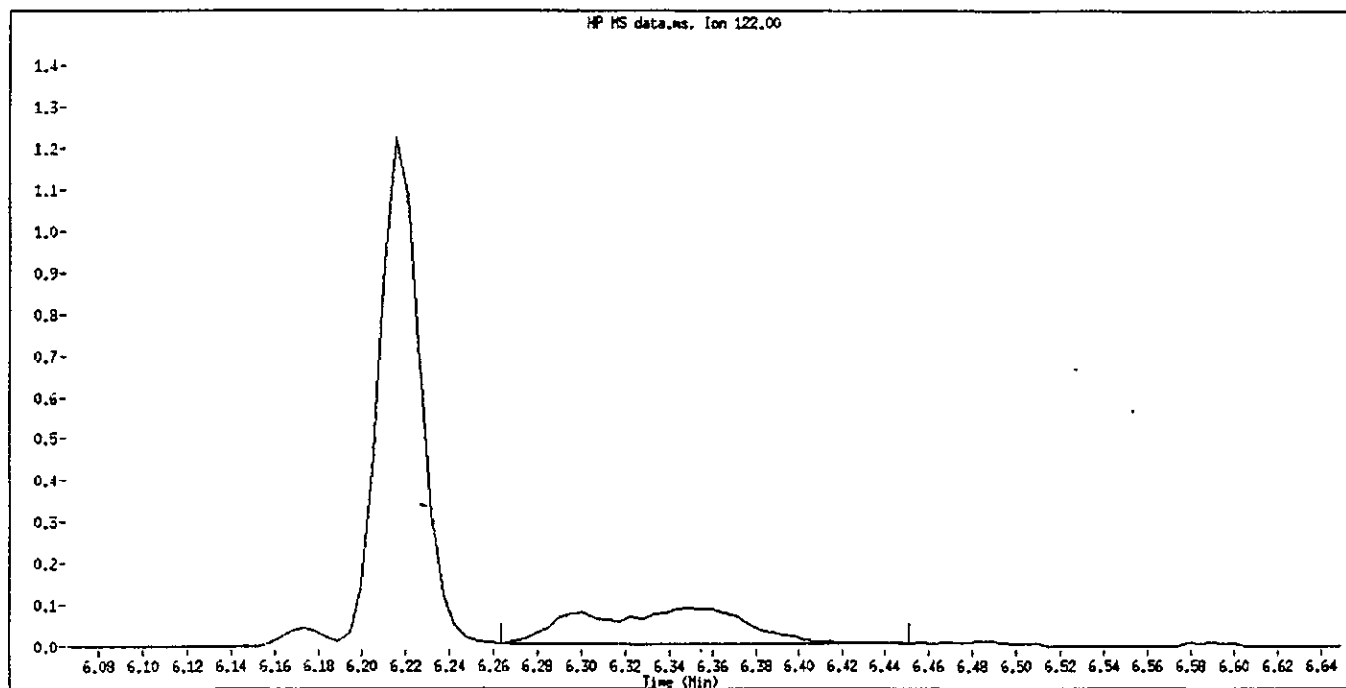
Manually Integrated By Bachas
Manual Integration Reason Poor Chromatography

Data File Name S0830CC1.D
Inj Date and Time 29-AUG-2000 10:41
Instrument ID: 71
Client ID sstd20
Compound Name Benzoic Acid
CAS # 65-85-0
Report Date 08/29/2000

672 968



Original Integration

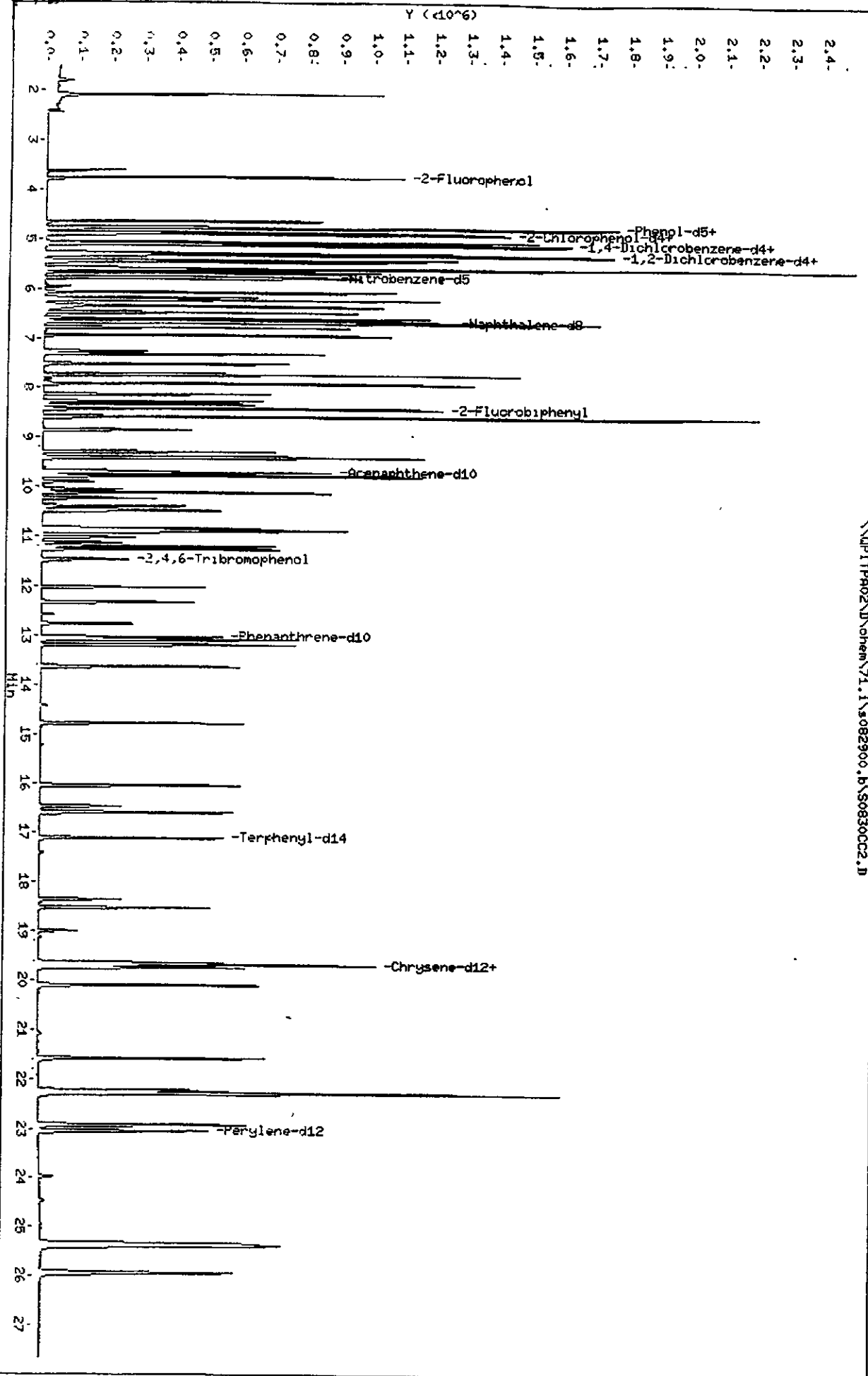


Manual Integration

Manually Integrated By BachaS
Manual Integration Reason Poor Chromatography

Data File: \\QIP1PA02\chem\71.1\5082900.b\50830CC2.D
Date: 29-AUG-2000 10:08
Client ID: sstd50
Sample Info: sstd50(25 ug/ml) 194-183-14 8270/c1p
Column phase: Hp5-MS

Instrument: 71.1
Operator: 046183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082900.b\S0830CC2.D
Lab Smp Id: sstd50 Client Smp ID: sstd50
Inj Date : 29-AUG-2000 10:08
Operator : 045183 Inst ID: 71.i
Smp Info : sstd50(25 ug/ml) 194-183-14 8270/clp
Misc Info : sstd50,s082900.b,8270clp.m,1-82701.sub,1,2
Comment :
Method : \\QPITPA02\D\chem\71.i\s082900.b\8270clp.m
Meth Date : 29-Aug-2000 11:35 bachas Quant Type: ISTD
Cal Date : 29-AUG-2000 10:08 Cal File: S0830CC2.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

8/24/00

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)	
* 1 1,4-Dichlorobenzene-d4	152	5.114	5.114	(1.000)	260108	40.0000		
* 2 Naphthalene-d8	136	6.664	6.664	(1.000)	899072	40.0000		
* 3 Acenaphthene-d10	164	9.725	9.725	(1.000)	384188	40.0000		
* 4 Phenanthrene-d10	188	13.042	13.042	(1.000)	474600	40.0000		
* 5 Chrysene-d12	240	19.688	19.688	(1.000)	435768	40.0000		
* 6 Perylene-d12	264	23.048	23.048	(1.000)	435481	40.0000		
13 N-Nitrosodimethylamine	74	2.080	2.080	(0.407)	242110	50.0000	50.000 (M)	
10 Pyridine	79	2.080	2.080	(0.407)	383984	50.0000	50.000 (M)	
19 Methyl methanesulfonate	80	3.619	3.619	(0.708)	105910	50.0000	50.000	
22 Aniline	93	4.804	4.804	(0.939)	555074	50.0000	50.000	
23 Phenol	94	4.794	4.794	(0.937)	562328	50.0000	50.000	
24 bis(2-Chloroethyl)ether	93	4.874	4.874	(0.953)	441708	50.0000	50.000	
25 2-Chlorophenol	128	4.922	4.922	(0.962)	445950	50.0000	50.000	
27 1,3-Dichlorobenzene	146	5.072	5.072	(0.992)	489606	50.0000	50.000	
28 1,4-Dichlorobenzene	146	5.130	5.130	(1.003)	493456	50.0000	50.000	
29 1,2-Dichlorobenzene	146	5.339	5.339	(1.044)	454741	50.0000	50.000	
30 Benzyl Alcohol	108	5.291	5.291	(1.034)	286005	50.0000	50.000	
31 2-Methylphenol	108	5.435	5.435	(1.063)	372496	50.0000	50.000	
32 2,2'-oxybis(1-Chloropropane)	45	5.467	5.467	(1.069)	551963	50.0000	50.000	
33 N-Nitroso-di-n-propylamine	70	5.627	5.627	(1.100)	262227	50.0000	50.000	
35 4-Methylphenol	108	5.595	5.595	(1.094)	388484	50.0000	50.000	
38 Hexachloroethane	117	5.686	5.686	(1.112)	174188	50.0000	50.000	
39 Nitrobenzene	77	5.793	5.793	(0.869)	391558	50.0000	50.000	
44 Isophorone	82	6.076	6.076	(0.912)	642532	50.0000	50.000	
45 2-Nitrophenol	139	6.188	6.188	(0.929)	211960	50.0000	50.000	
46 2,4-Dimethylphenol	107	6.231	6.231	(0.935)	338783	50.0000	50.000	

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
47 bis(2-Chloroethoxy)methane	93	6.359	6.359	(0.954)	449528	50.0000	50.000
51 2,4-Dichlorophenol	162	6.482	6.482	(0.973)	293521	50.0000	50.000
52 Benzoic Acid	122	6.343	6.343	(0.952)	132923	50.0000	50.000 (M)
53 1,2,4-Trichlorobenzene	180	6.605	6.605	(0.991)	334716	50.0000	50.000
54 Naphthalene	128	6.690	6.690	(1.004)	1186935	50.0000	50.000
55 4-Chloroaniline	127	6.792	6.792	(1.019)	442820	50.0000	50.000
59 Hexachlorobutadiene	225	6.947	6.947	(1.042)	170122	50.0000	50.000
62 4-Chloro-3-Methylphenol	107	7.518	7.518	(1.128)	257786	50.0000	50.000
65 2-Methylnaphthalene	142	7.737	7.737	(1.161)	711362	50.0000	50.000
66 1-Methylnaphthalene	142	7.919	7.919	(1.188)	659911	50.0000	50.000
67 Hexachlorocyclopentadiene	237	8.133	8.133	(0.836)	170063	50.0000	50.000
69 2,4,6-Trichlorophenol	196	8.277	8.277	(0.851)	170837	50.0000	50.000
70 2,4,5-Trichlorophenol	196	8.341	8.341	(0.858)	173522	50.0000	50.000
73 2-Chloronaphthalene	162	8.592	8.592	(0.884)	609459	50.0000	50.000
77 2-Nitroaniline	65	8.854	8.854	(0.910)	132674	50.0000	50.000
80 Dimethylphthalate	163	9.297	9.297	(0.956)	549390	50.0000	50.000
82 2,6-Dinitrotoluene	165	9.425	9.425	(0.969)	119607	50.0000	50.000
83 Acenaphthylene	152	9.404	9.404	(0.967)	865988	50.0000	50.000
85 3-Nitroaniline	138	9.693	9.693	(0.997)	140219	50.0000	50.000
86 Acenaphthene	153	9.789	9.789	(1.007)	542324	50.0000	50.000
87 2,4-Dinitrophenol	184	9.906	9.906	(1.019)	50197	50.0000	50.000
89 4-Nitrophenol	109	10.061	10.061	(1.035)	49340	50.0000	50.000
90 Dibenzofuran	168	10.125	10.125	(1.041)	721373	50.0000	50.000
91 2,4-Dinitrotoluene	165	10.243	10.243	(1.053)	140220	50.0000	50.000
95 2,3,5,6-Tetrachlorophenol	232	10.398	10.398	(1.069)	110274	50.0000	50.000
92 2,3,4,6-Tetrachlorophenol	232	10.499	10.499	(1.080)	109114	50.0000	50.000
96 2-Naphthylamine	143	10.472	10.472	(1.077)	372462	50.0000	50.000
97 Diethylphthalate	149	10.841	10.841	(1.115)	495509	50.0000	50.000
98 Fluorene	166	10.878	10.878	(1.119)	559480	50.0000	50.000
99 4-Chlorophenyl-phenylether	204	10.916	10.916	(1.122)	255714	50.0000	50.000
100 4-Nitroaniline	138	11.028	11.028	(1.134)	124393	50.0000	50.000
102 4,6-Dinitro-2-methylphenol	198	11.130	11.130	(0.853)	76143	50.0000	50.000
103 N-Nitrosodiphenylamine (1)	169	11.204	11.204	(0.859)	363455	50.0000	50.000
104 1,2-Diphenylhydrazine	77	11.268	11.268	(0.864)	544484	50.0000	50.000
112 4-Bromophenyl-phenylether	248	12.032	12.032	(0.923)	120525	50.0000	50.000
113 Hexachlorobenzene	284	12.332	12.332	(0.946)	126604	50.0000	50.000
117 Pentachlorophenol	266	12.770	12.770	(0.979)	67748	50.0000	50.000 (M)
122 Phenanthrene	178	13.095	13.095	(1.004)	649789	50.0000	50.000
123 Anthracene	178	13.202	13.202	(1.012)	666209	50.0000	50.000
126 Carbazole	167	13.635	13.635	(1.045)	574184	50.0000	50.000
130 Di-n-Butylphthalate	149	14.784	14.784	(1.134)	643683	50.0000	50.000
135 Fluoranthene	202	16.039	16.039	(1.230)	542393	50.0000	50.000
136 Benzidine	184	16.461	16.461	(0.836)	236239	50.0000	50.000
137 Pyrene	202	16.584	16.584	(0.842)	559610	50.0000	50.000
144 Butylbenzylphthalate	149	18.528	18.528	(0.941)	256643	50.0000	50.000
149 3,3'-Dichlorobenzidine	252	19.688	19.688	(1.000)	240653	50.0000	50.000
150 Benzo(a)Anthracene	228	19.645	19.645	(0.998)	524450	50.0000	50.000

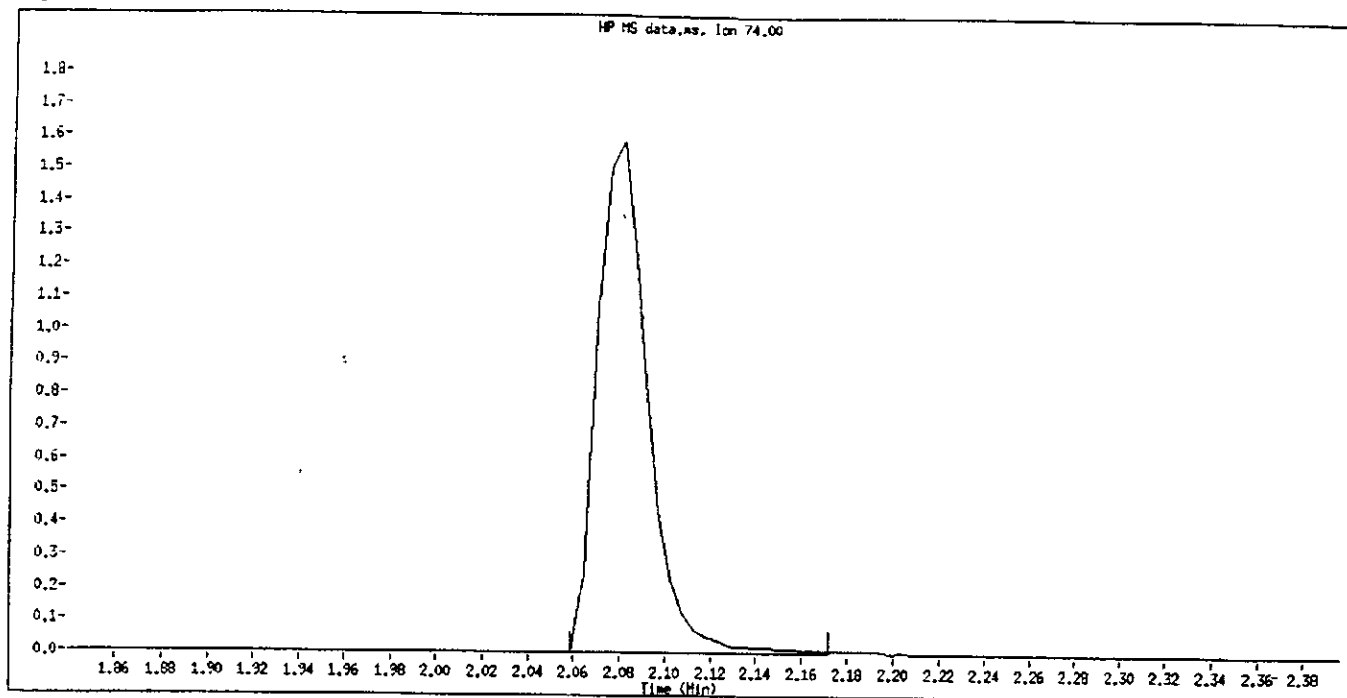
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
151 Chrysene	228	19.746	19.746	(1.003)	506839	50.0000	50.000
153 bis(2-ethylhexyl)phthalate	149	20.104	20.104	(1.021)	363484	50.0000	50.000
155 Di-n-octylphthalate	149	21.573	21.573	(0.936)	666150	50.0000	50.000
157 Benzo(b)fluoranthene	252	22.231	22.231	(0.965)	608706	50.0000	50.000 (H)
158 Benzo(k)fluoranthene	252	22.284	22.284	(0.967)	814754	50.0000	50.000
159 7,12-dimethylbenz[a]anthracene	256	22.284	22.284	(0.967)	346748	50.0000	50.000
167 Benzo(a)pyrene	252	22.925	22.925	(0.995)	596925	50.0000	50.000
169 Indeno(1,2,3-cd)pyrene	276	25.345	25.345	(1.100)	905030	50.0000	50.000
170 Dibenz(a,h)anthracene	278	25.393	25.393	(1.102)	809338	50.0000	50.000
171 Benzo(g,h,i)perylene	276	25.949	25.949	(1.126)	761625	50.0000	50.000
\$ 172 Nitrobenzene-d5	82	5.771	5.771	(0.866)	385031	50.0000	50.000
\$ 173 2-Fluorobiphenyl	172	8.421	8.421	(0.866)	660161	50.0000	50.000
\$ 174 Terphenyl-d14	244	17.113	17.113	(0.869)	395427	50.0000	50.000
\$ 175 Phenol-d5	99	4.778	4.778	(0.934)	519094	50.0000	50.000
\$ 176 2-Fluorophenol	112	3.768	3.768	(0.737)	429844	50.0000	50.000
\$ 177 2,4,6-Tribromophenol	330	11.466	11.466	(0.879)	58798	50.0000	50.000
\$ 178 2-Chlorophenol-d4	132	4.906	4.906	(0.959)	398871	50.0000	50.000
\$ 179 1,2-Dichlorobenzene-d4	152	5.323	5.323	(1.041)	292263	50.0000	50.000

QC Flag Legend

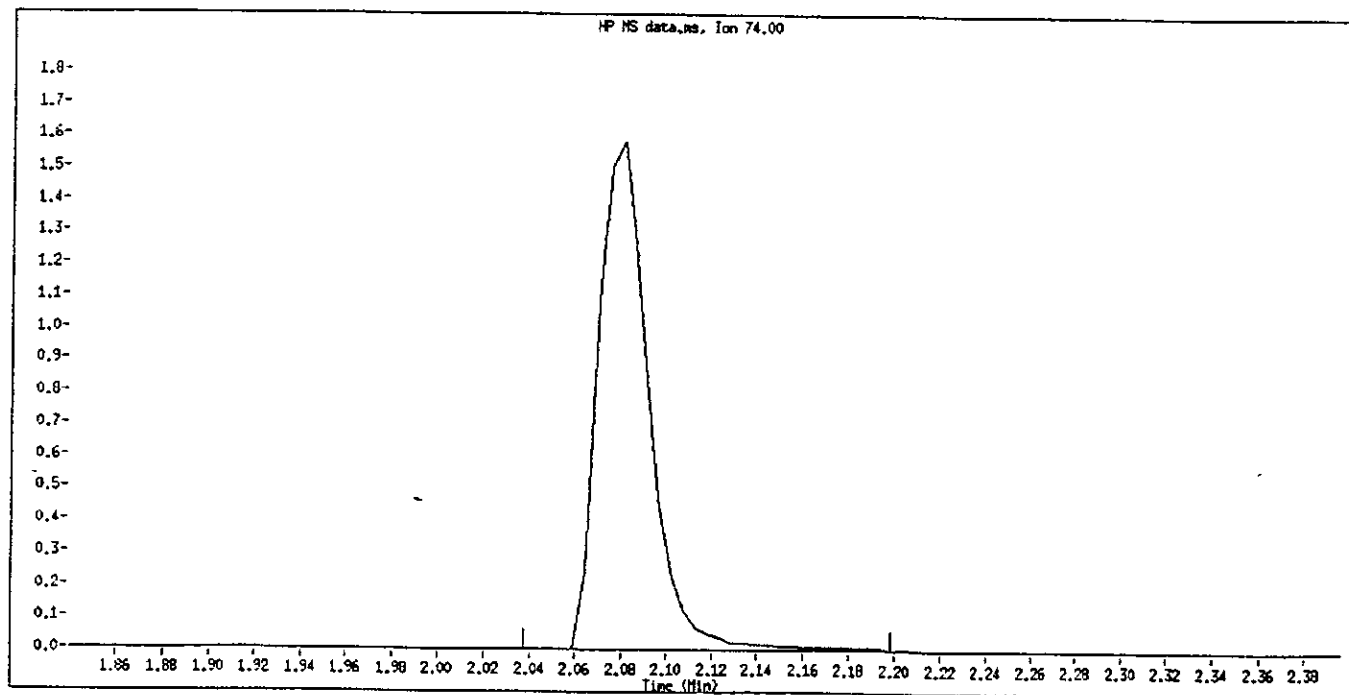
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

672 973

Data File Name S0830CC2.D
Inj Date and Time 29-AUG-2000 10:08
Instrument ID 71
Client ID sstd50
Compound Name N-Nitrosodimethylamine
CAS # 62-75-9
Report Date 08/29/2000



Original Integration

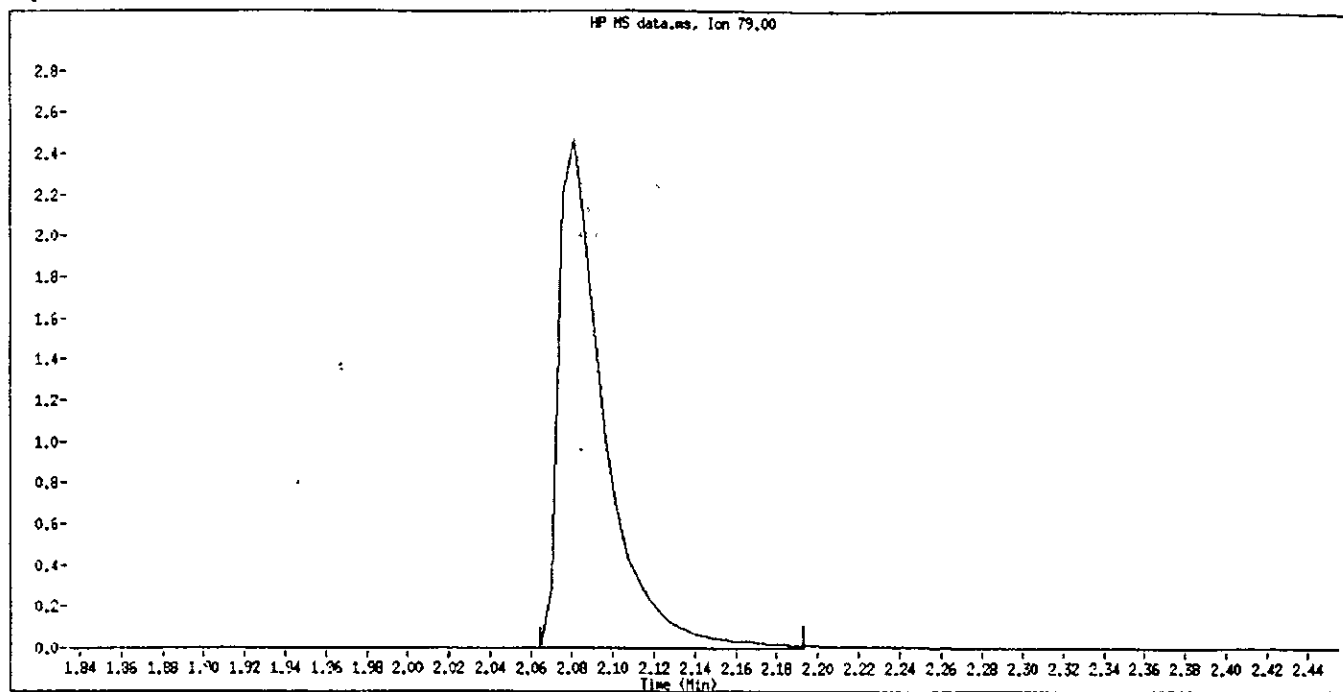


Manual Integration

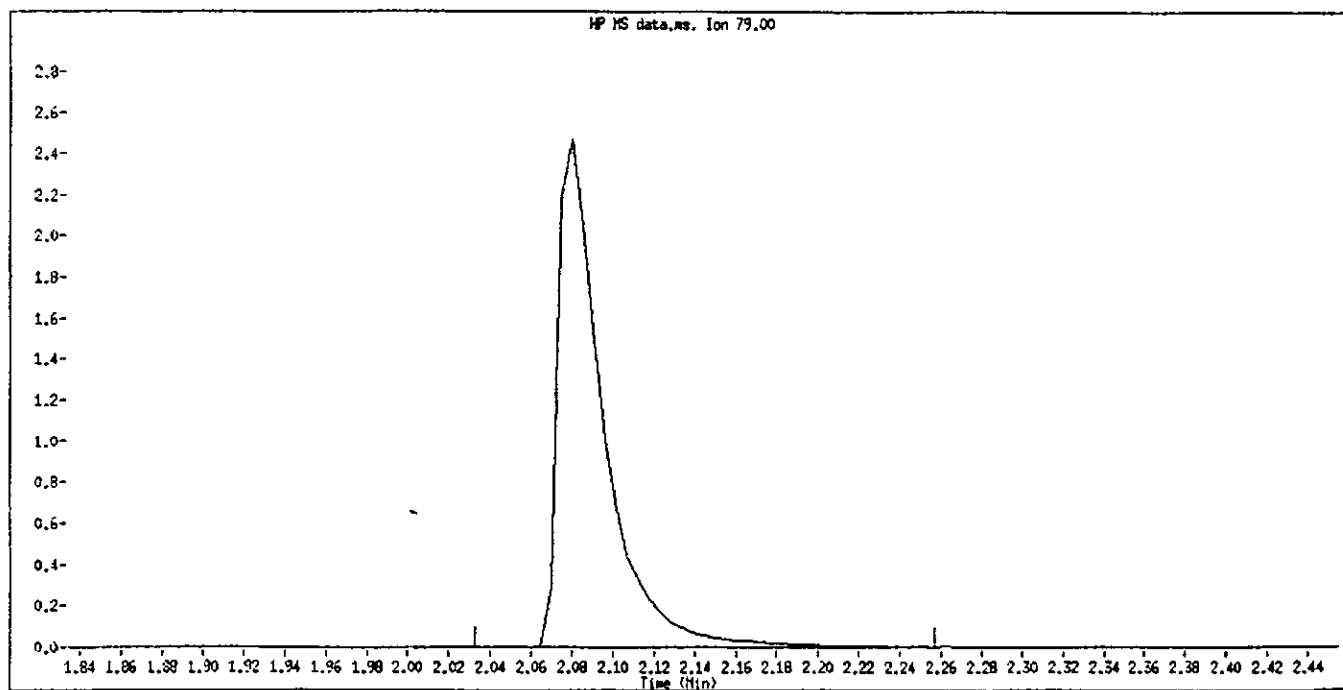
Manually Integrated By: BachaS
Manual Integration Reason Poor Chromatography

Data File Name S0830(C2.D)
Inj Date and Time 29-AUG-2000 10:08
Instrument ID 711
Client ID sstd50
Compound Name Pyridine
CAS # 110-86-1
Report Date 08/29/2000

672 974



Original Integration

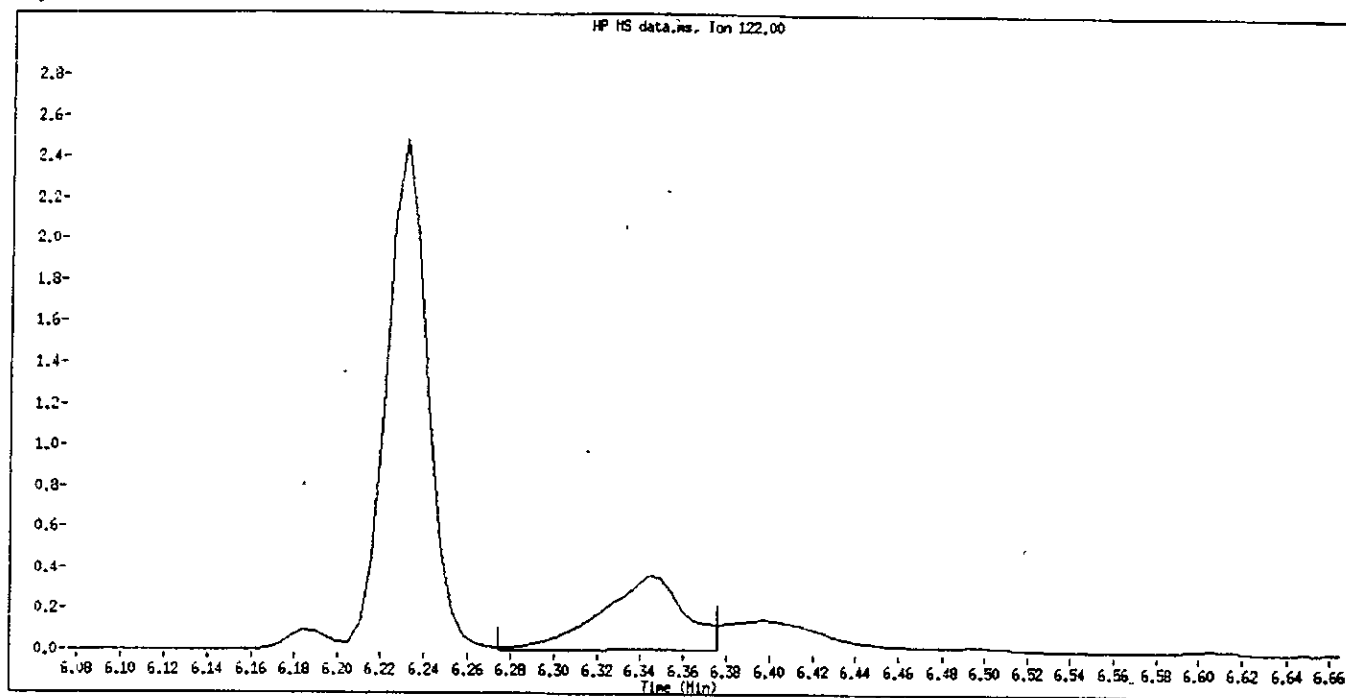


Manual Integration

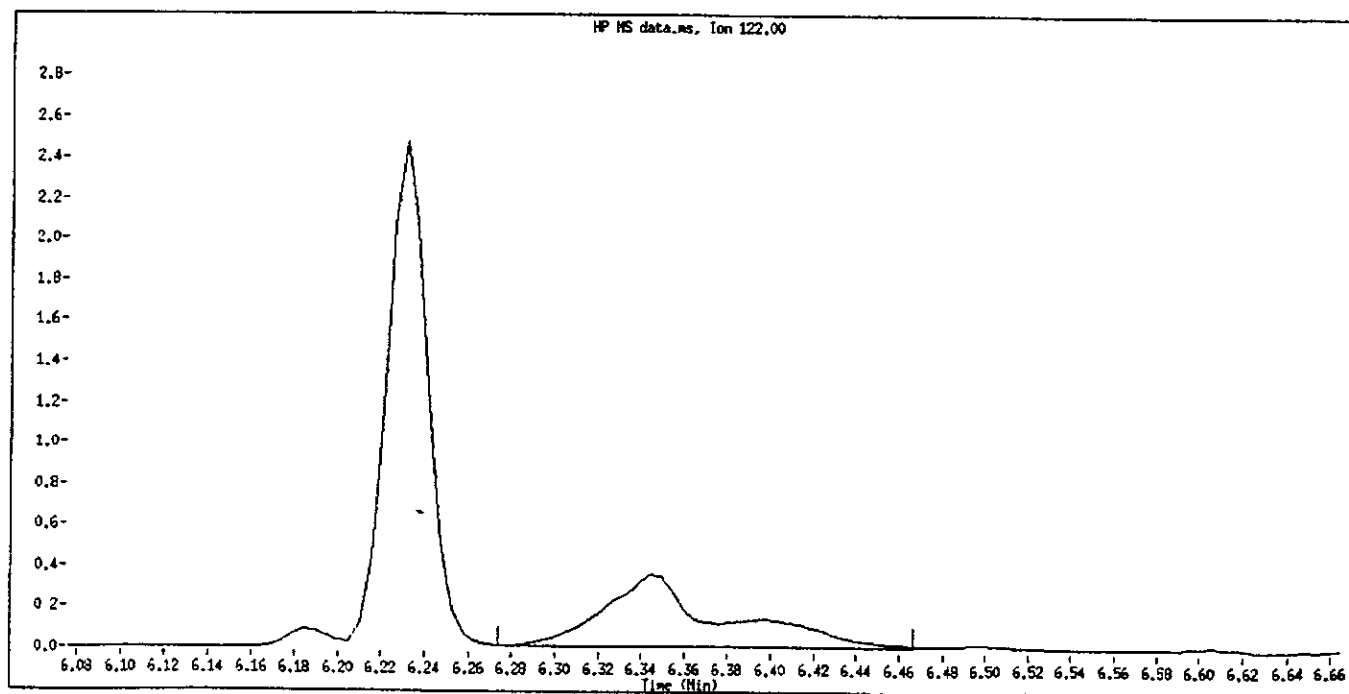
Manually Integrated By BachaS
Manual Integration Reason: Poor Chromatography

672 975

Data File Name S0830CC2.D
Inj Date and Time 29-AUG-2000 10 08
Instrument ID 711
Client ID sstd50
Compound Name Benzoic Acid
CAS # 65-85-0
Report Date 08/29/2000



Original Integration

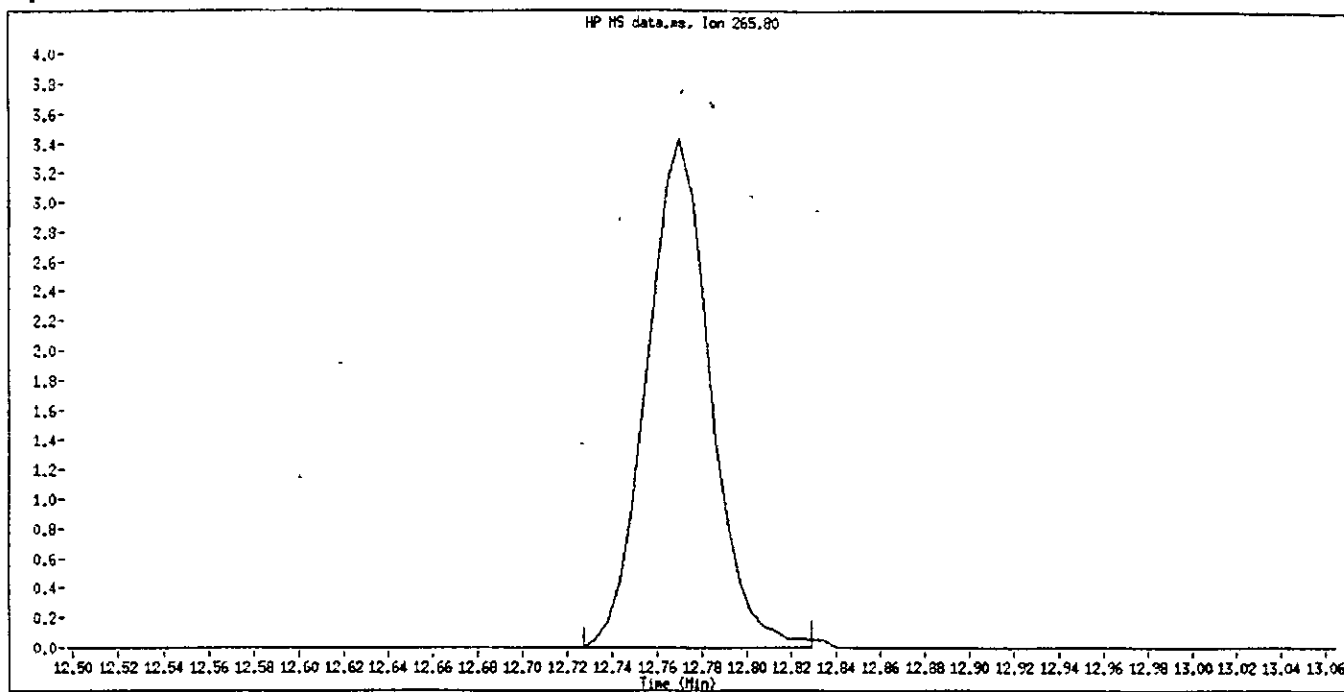


Manual Integration

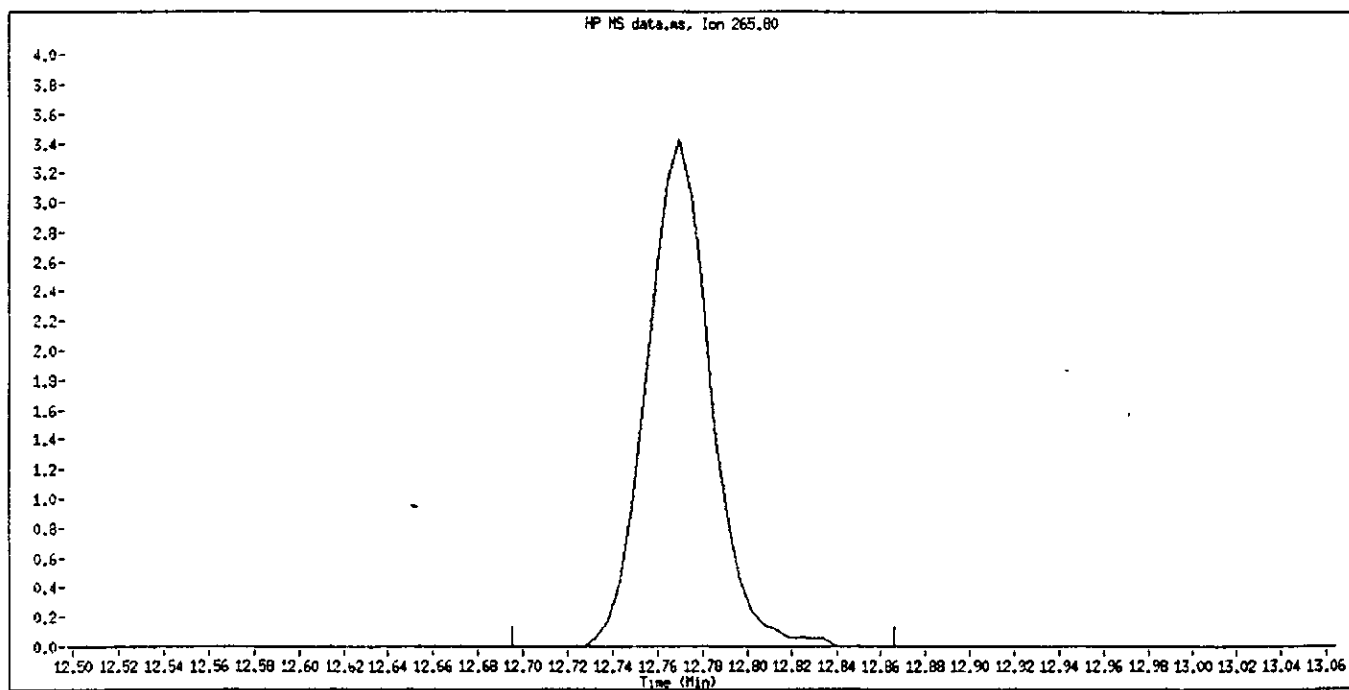
Manually Integrated By BachaS
Manual Integration Reason: Poor Chromatography

Data File Name S0830CC2.D
Inj Date and Time 29-AUG-2000 10:08
Instrument ID 711
Client ID sstd50
Compound Name Pentachlorophenol
CAS # 87-86-5
Report Date 08/29/2000

672 976



Original Integration



Manual Integration

Manually Integrated By: Bachas
Manual Integration Reason: Poor Chromatography

Data File: \\NPITPA02\chem\71.1\5082900.b\50830CC3.D
Date: 29-AUG-2000 11:15

Client ID:

Sample Info: std80(40 ug/ml) 194-188-5 8270/cip

Volume Injected (uL): 2.0

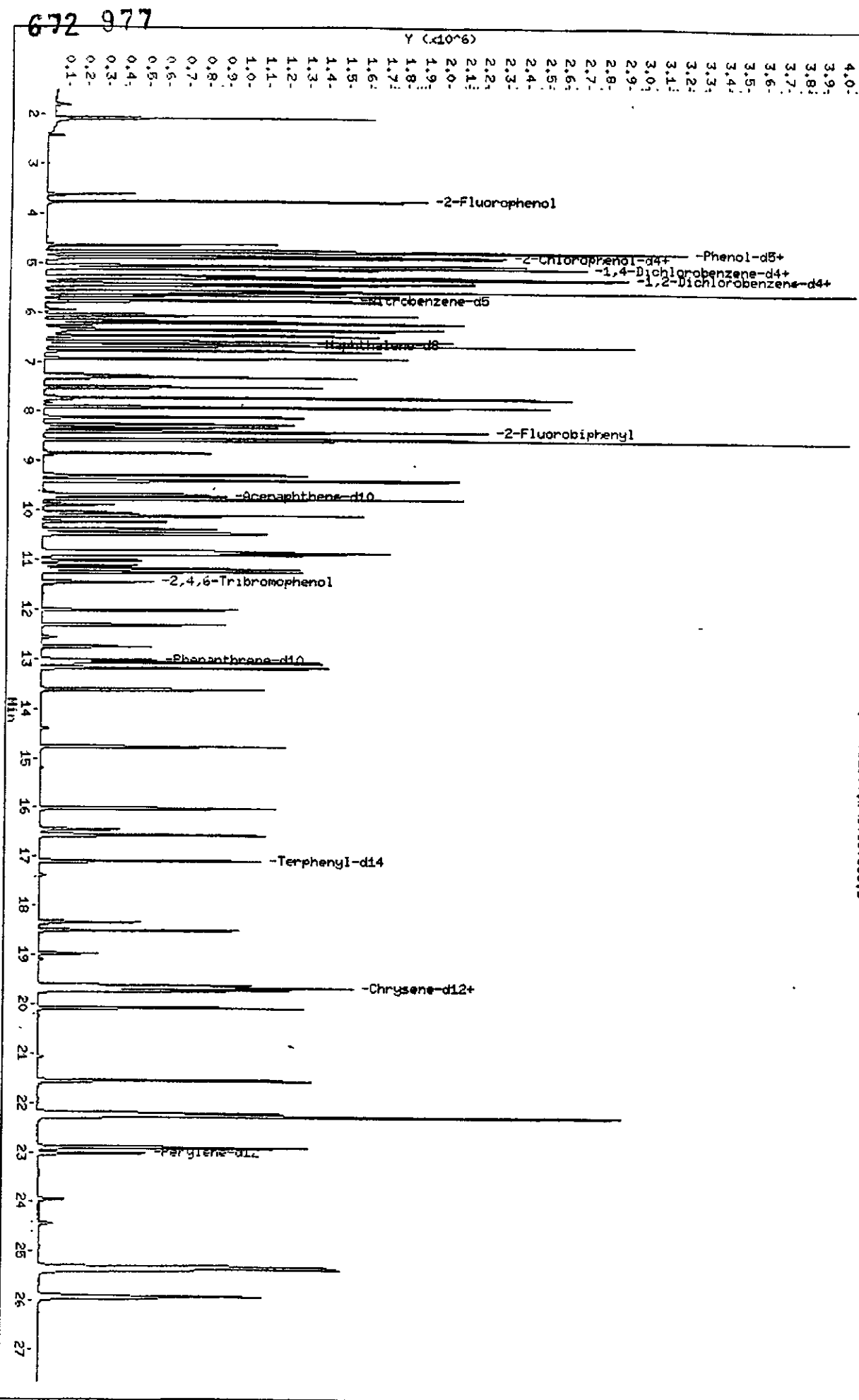
Column Phase: HPS-HS

Instrument: 71.1

Operator: 045183

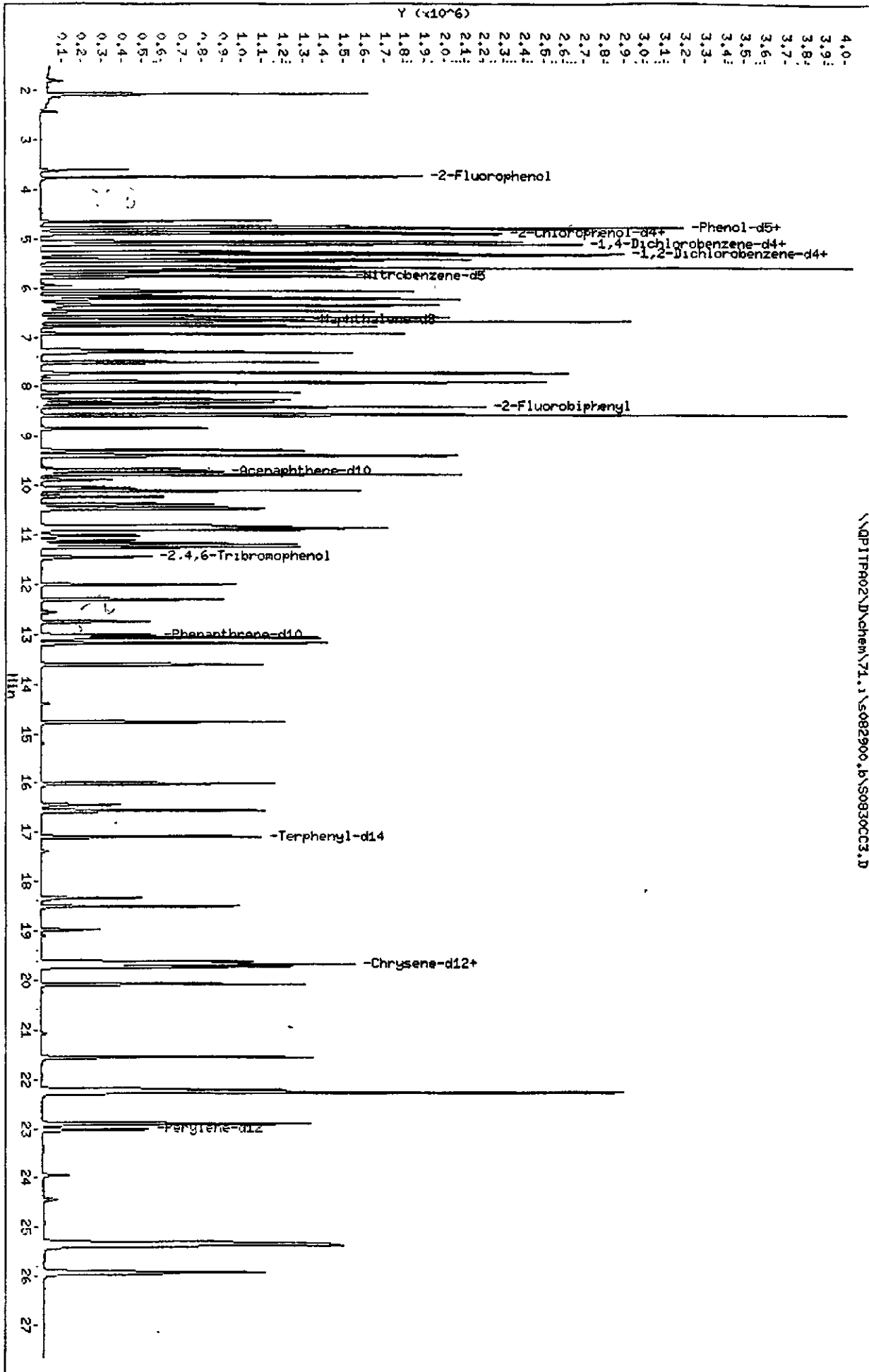
Column diameter: 0.25

\\NPITPA02\chem\71.1\5082900.b\50830CC3.D



Data File: \\NPITPA02\chem\74.1\5082900.b\50830CC3.D
Date: 29-AUG-2000 11:15
Client ID: sstd80
Sample Info: sstd80(40 ug/ml) 194-188-B 8270/c1p
Column phase: HP5-MS

Instrument: 74.1
Operator: 048183
Column diameter: 0.25



672 979

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082900.b\S0830CC3.D
 Lab Smp Id: sstd80 Client Smp ID: sstd80
 Inj Date : 29-AUG-2000 11:15
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd80(40 ug/ml) 194-188-5 8270/clp
 Misc Info : sstd80,s082900.b,8270clp.m,1-82701.sub,1,3
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082900.b\8270clp.m
 Meth Date : 29-Aug-2000 12:14 bachas Quant Type: ISTD
 Cal Date : 29-AUG-2000 11:15 Cal File: S0830CC3.D
 Als bottle: 96 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

5/24/00

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5.103	5.103	(1.000)	272010	40.0000	
* 2 Naphthalene-d8	136	6.653	6.653	(1.000)	936765	40.0000	
* 3 Acenaphthene-d10	164	9.708	9.708	(1.000)	405755	40.0000	
* 4 Phenanthrene-d10	188	13.021	13.021	(1.000)	488556	40.0000	
* 5 Chrysene-d12	240	19.666	19.666	(1.000)	484862	40.0000	
* 6 Perylene-d12	264	23.026	23.026	(1.000)	436366	40.0000	
13 N-Nitrosodimethylamine	74	2.074	2.074	(0.407)	396919	80.0000	77.916 (M)
10 Pyridine	79	2.074	2.074	(0.407)	662589	80.0000	79.862 (M)
19 Methyl methanesulfonate	80	3.608	3.608	(0.707)	188735	80.0000	82.239
22 Aniline	93	4.799	4.799	(0.940)	945026	80.0000	78.719
23 Phenol	94	4.788	4.788	(0.938)	919728	80.0000	76.506
24 bis(2-Chloroethyl)ether	93	4.868	4.868	(0.954)	738743	80.0000	78.301
25 2-Chlorophenol	128	4.911	4.911	(0.962)	749071	80.0000	78.183
27 1,3-Dichlorobenzene	146	5.066	5.066	(0.993)	827528	80.0000	79.281
28 1,4-Dichlorobenzene	146	5.120	5.120	(1.003)	837290	80.0000	79.034
29 1,2-Dichlorobenzene	146	5.328	5.328	(1.044)	757782	80.0000	78.392
30 Benzyl Alcohol	108	5.285	5.285	(1.036)	518519	80.0000	82.673
31 2-Methylphenol	108	5.429	5.429	(1.064)	646076	80.0000	79.630
32 2,2'-oxybis(1-Chloropropane)	45	5.461	5.461	(1.070)	933169	80.0000	79.188
33 N-Nitroso-di-n-propylamine	70	5.622	5.622	(1.102)	460806	80.0000	80.723
35 4-Methylphenol	108	5.590	5.590	(1.095)	654427	80.0000	77.914
38 Hexachloroethane	117	5.675	5.675	(1.112)	292860	80.0000	79.777
39 Nitrobenzene	77	5.787	5.787	(0.870)	680977	80.0000	81.755
44 Isophorone	82	6.065	6.065	(0.912)	1141622	80.0000	82.156
45 2-Nitrophenol	139	6.177	6.177	(0.929)	383010	80.0000	84.290
46 2,4-Dimethylphenol	107	6.220	6.220	(0.935)	600209	80.0000	81.702

672 980

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)
47 bis(2-Chloroethoxy)methane	93	.	6.354	6.354	(0.955)	781424	80.0000	81.161
51 2,4-Dichlorophenol	162		6.471	6.471	(0.973)	525424	80.0000	82.574
52 Benzoic Acid	122		6.370	6.370	(0.957)	303464	80.0000	106.27 (MH)
53 1,2,4-Trichlorobenzene	180		6.594	6.594	(0.991)	596418	80.0000	82.357
54 Naphthalene	128		6.679	6.679	(1.004)	2026595	80.0000	80.208
55 4-Chloroaniline	127		6.781	6.781	(1.019)	781941	80.0000	91.719
59 Hexachlorobutadiene	225		6.936	6.936	(1.043)	304617	80.0000	93.366
62 4-Chloro-3-Methylphenol	107		7.513	7.513	(1.129)	468431	80.0000	83.678
65 2-Methylnaphthalene	142		7.726	7.726	(1.161)	1275328	80.0000	82.546
66 1-Methylnaphthalene	142		7.908	7.908	(1.189)	1224445	80.0000	84.214
67 Hexachlorocyclopentadiene	237		8.116	8.116	(0.836)	331290	80.0000	87.722
69 2,4,6-Trichlorophenol	196		8.266	8.266	(0.851)	321193	80.0000	84.341
70 2,4,5-Trichlorophenol	196		8.330	8.330	(0.858)	328601	80.0000	84.140
73 2-Chloronaphthalene	162		8.581	8.581	(0.884)	1083701	80.0000	81.030
77 2-Nitroaniline	65		8.843	8.843	(0.911)	247263	80.0000	86.120
80 Dimethylphthalate	163		9.286	9.286	(0.957)	1029802	80.0000	84.208
82 2,6-Dinitrotoluene	165		9.415	9.415	(0.970)	233770	80.0000	88.422
83 Acenaphthylene	152		9.393	9.393	(0.968)	1589014	80.0000	83.510
85 3-Nitroaniline	138		9.676	9.676	(0.997)	265224	80.0000	86.783
86 Acenaphthene	153		9.778	9.778	(1.007)	993135	80.0000	83.133
87 2,4-Dinitrophenol	184		9.890	9.890	(1.019)	110296	80.0000	109.89
89 4-Nitrophenol	109		10.050	10.050	(1.035)	90465	80.0000	88.325
90 Dibenzofuran	168		10.109	10.109	(1.041)	1327098	80.0000	83.074
91 2,4-Dinitrotoluene	165		10.232	10.232	(1.054)	270716	80.0000	88.335
95 2,3,5,6-Tetrachlorophenol	232		10.387	10.387	(1.070)	227244	80.0000	92.039
92 2,3,4,6-Tetrachlorophenol	232		10.483	10.483	(1.080)	224936	80.0000	90.758
96 2-Naphthylamine	143		10.456	10.456	(1.077)	722292	80.0000	84.643
97 Diethylphthalate	149		10.825	10.825	(1.115)	932735	80.0000	86.040
98 Fluorene	166		10.862	10.862	(1.119)	1051096	80.0000	85.475
99 4-Chlorophenyl-phenylether	204		10.900	10.900	(1.123)	480799	80.0000	85.002
100 4-Nitroaniline	138		11.017	11.017	(1.135)	225839	80.0000	87.256
102 4,6-Dinitro-2-methylphenol	198		11.119	11.119	(0.854)	151243	80.0000	98.041
103 N-Nitrosodiphenylamine (1)	169		11.188	11.188	(0.859)	677891	80.0000	86.351
104 1,2-Diphenylhydrazine	77		11.252	11.252	(0.864)	984664	80.0000	83.721
112 4-Bromophenyl-phenylether	248		12.011	12.011	(0.922)	239547	80.0000	88.984
113 Hexachlorobenzene	284		12.315	12.315	(0.946)	253658	80.0000	88.958
117 Pentachlorophenol	266		12.753	12.753	(0.979)	130512	80.0000	94.251 (M)
122 Phenanthrene	178		13.079	13.079	(1.004)	1209751	80.0000	85.938
123 Anthracene	178		13.186	13.186	(1.013)	1251674	80.0000	87.337
126 Carbazole	167		13.619	13.619	(1.046)	1056405	80.0000	88.227
130 Di-n-Butylphthalate	149		14.767	14.767	(1.134)	1218498	80.0000	91.083
135 Fluoranthene	202		16.023	16.023	(1.231)	1026015	80.0000	91.959
136 Benzidine	184		16.439	16.439	(0.836)	375261	80.0000	79.866
137 Pyrene	202		16.562	16.562	(0.842)	1046996	80.0000	76.344
144 Butylbenzylphthalate	149		18.507	18.507	(0.941)	472657	80.0000	80.734
149 3,3'-Dichlorobenzidine	252		19.671	19.671	(1.000)	496196	80.0000	88.599
150 Benzo(a)Anthracene	228		19.623	19.623	(0.998)	1003680	80.0000	83.060

672 981

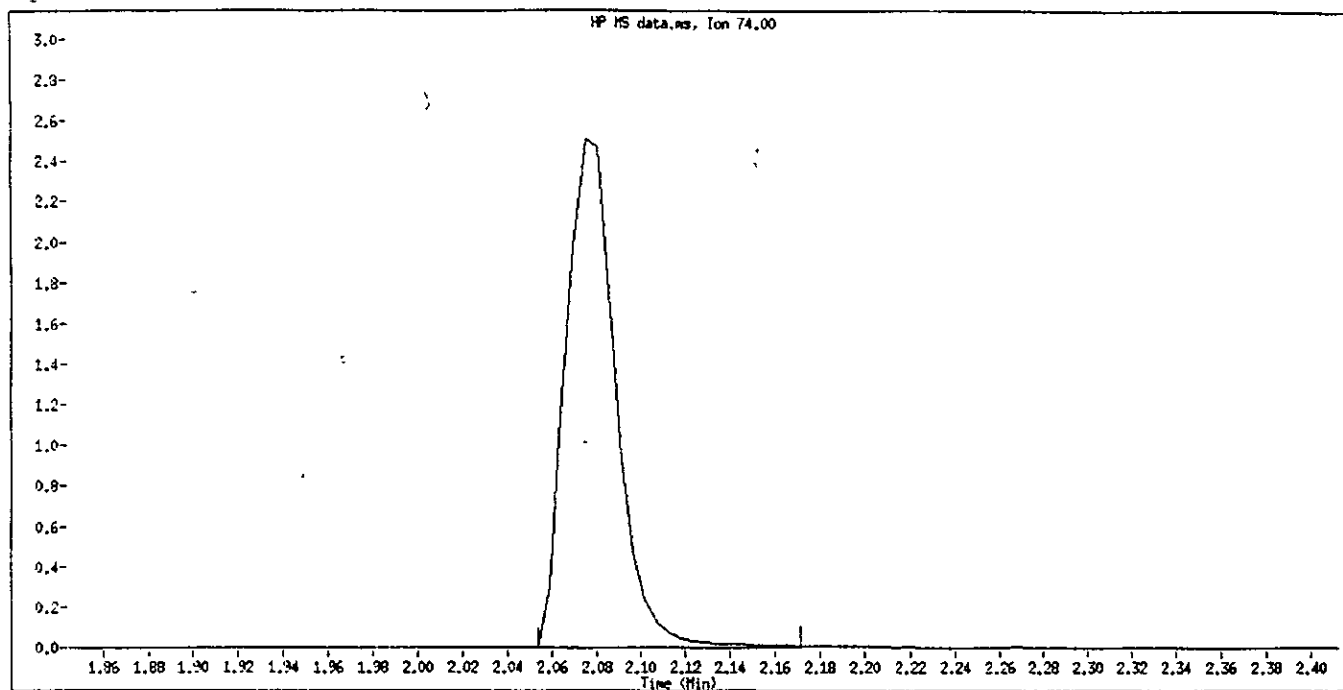
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	-----	---	-----	-----	-----	(ng)	(ng)
151 Chrysene	228	19.730	19.730	(1.003)	985052	80.0000	82.618
153 bis(2-ethylhexyl)Phthalate	149	20.083	20.083	(1.021)	672502	80.0000	81.785
155 Di-n-octylphthalate	149	21.552	21.552	(0.936)	1261350	80.0000	88.582
157 Benzo(b)fluoranthene	252	22.214	22.214	(0.965)	1231845	80.0000	93.618
158 Benzo(k)fluoranthene	252	22.268	22.268	(0.967)	1589410	80.0000	91.984
159 7,12-dimethylbenz(a)anthracen	256	22.273	22.273	(0.967)	723422	80.0000	98.933
167 Benzo(a)pyrene	252	22.909	22.909	(0.995)	1197947	80.0000	92.793
169 Indeno(1,2,3-cd)pyrene	276	25.334	25.334	(1.100)	1819015	80.0000	92.633
170 Dibenz(a,h)anthracene	278	25.377	25.377	(1.102)	1656826	80.0000	93.796
171 Benzo(g,h,i)perylene	276	25.932	25.932	(1.126)	1503699	80.0000	90.537
\$ 172 Nitrobenzene-d5	82	5.766	5.766	(0.867)	675010	80.0000	82.341
\$ 173 2-Fluorobiphenyl	172	8.410	8.410	(0.866)	1215739	80.0000	82.976
\$ 174 Terphenyl-d14	244	17.097	17.097	(0.869)	771456	80.0000	79.849
\$ 175 Phenol-d5	99	4.778	4.778	(0.936)	896697	80.0000	79.484
\$ 176 2-Fluorophenol	112	3.763	3.763	(0.737)	730218	80.0000	79.441
\$ 177 2,4,6-Tribromophenol	330	11.455	11.455	(0.880)	124984	80.0000	93.063
\$ 178 2-Chlorophenol-d4	132	4.895	4.895	(0.959)	699895	80.0000	80.463
\$ 179 1,2-Dichlorobenzene-d4	152	5.312	5.312	(1.041)	493346	80.0000	78.915

QC Flag Legend

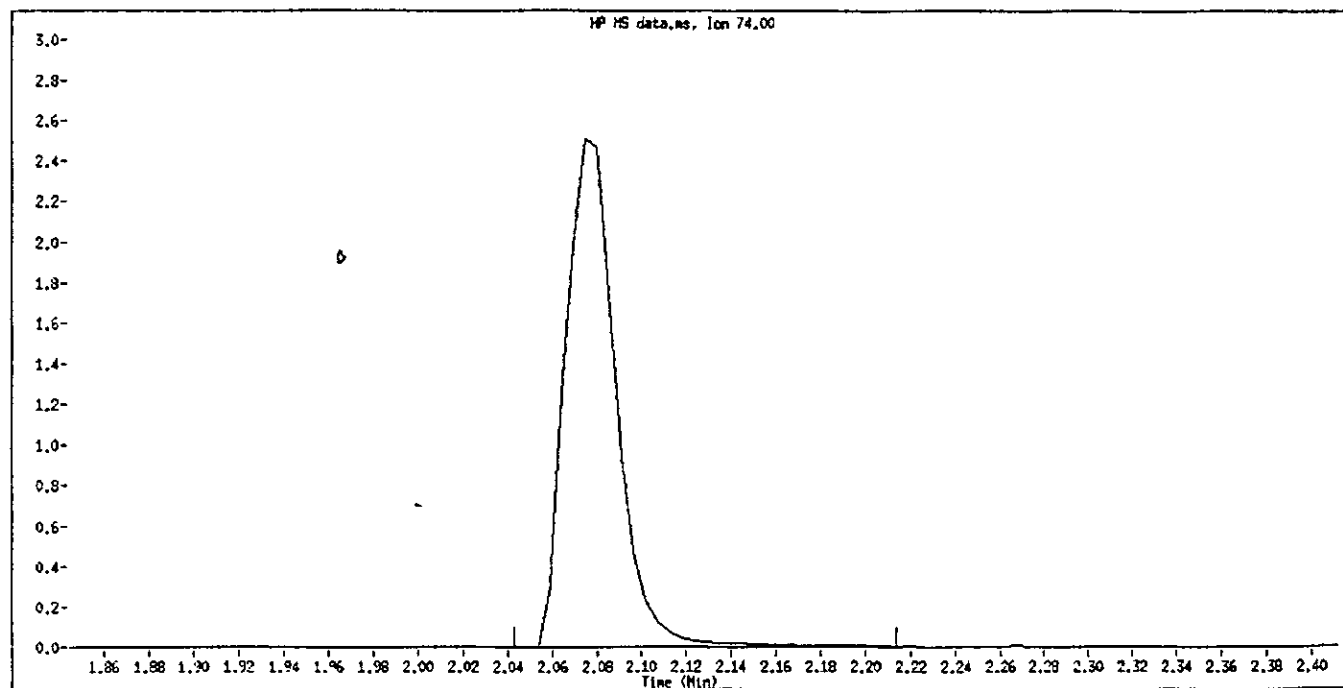
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File Name S0810CC3 D
Inj Date and Time 29-AUG-2000 11 15
Instrument ID 71 :
Client ID sstd80
Compound Name N-Nitrosodimethylamine
CAS # 62-75-9
Report Date 08/29/2000

672 982



Original Integration

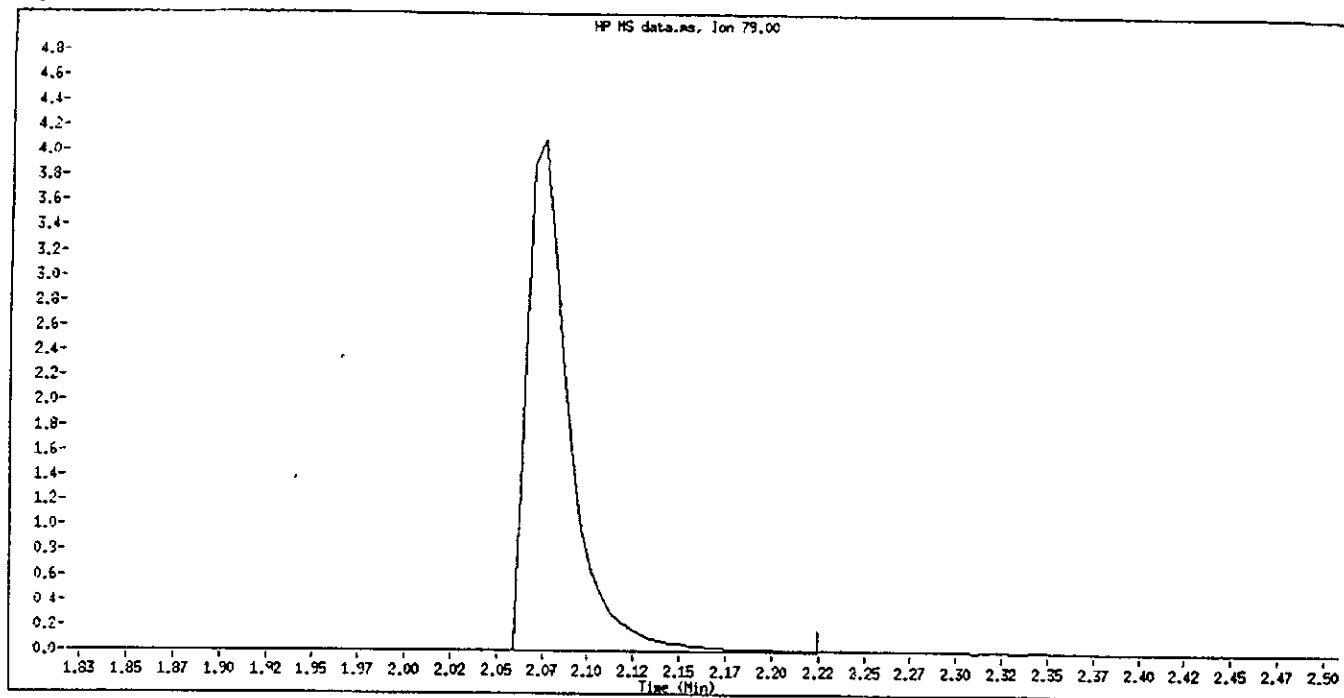


Manual Integration

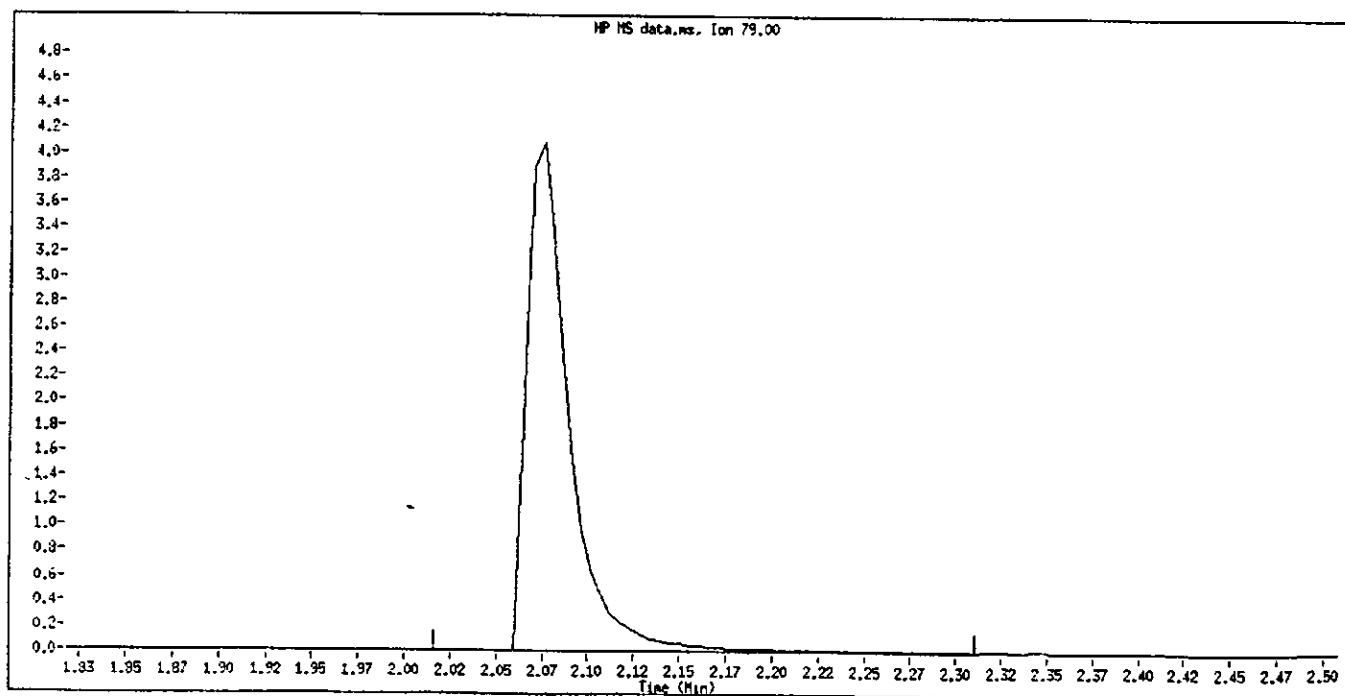
Manually Integrated By: BachaS
Manual Integration Reason Poor Chromatography

672 983

Data File Name: S0830CC3.D
Inj Date and Time: 29-AUG-2000 11:15
Instrument ID: 71
Client ID: sstd80
Compound Name: Pyr-dine
CAS #: 110-86-1
Report Date: 08/29/2000



Original Integration

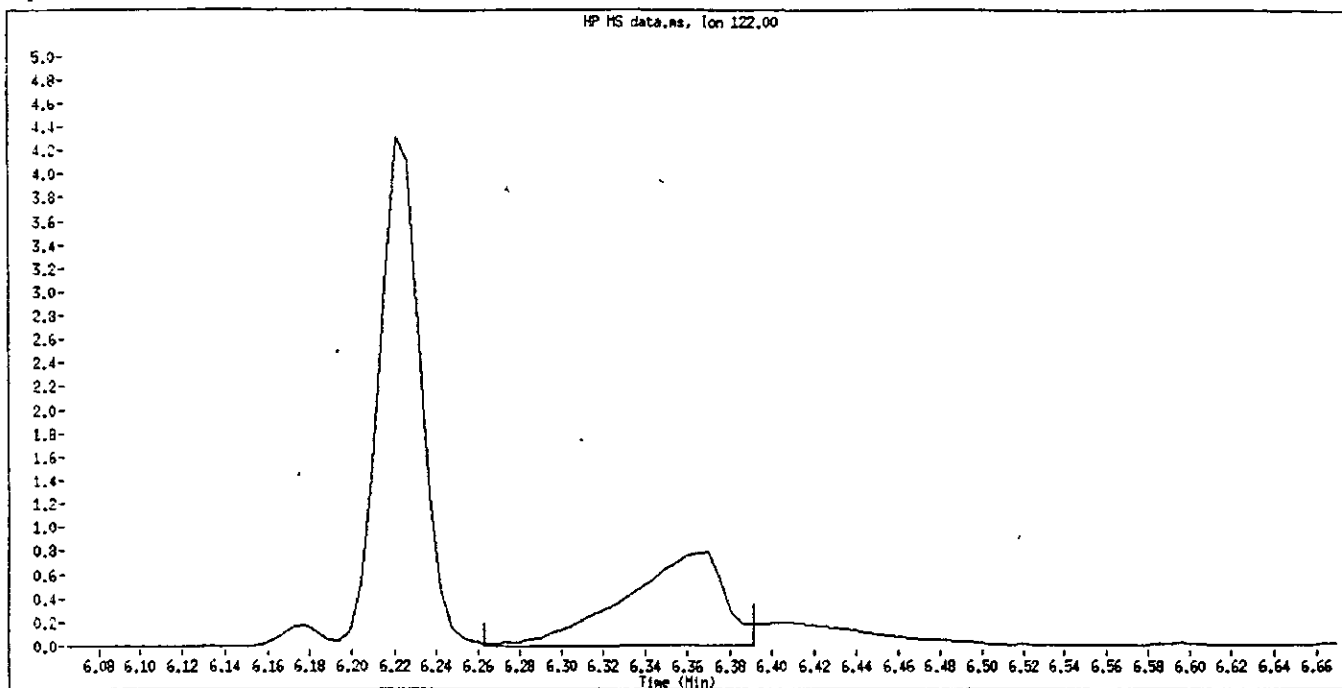


Manual Integration

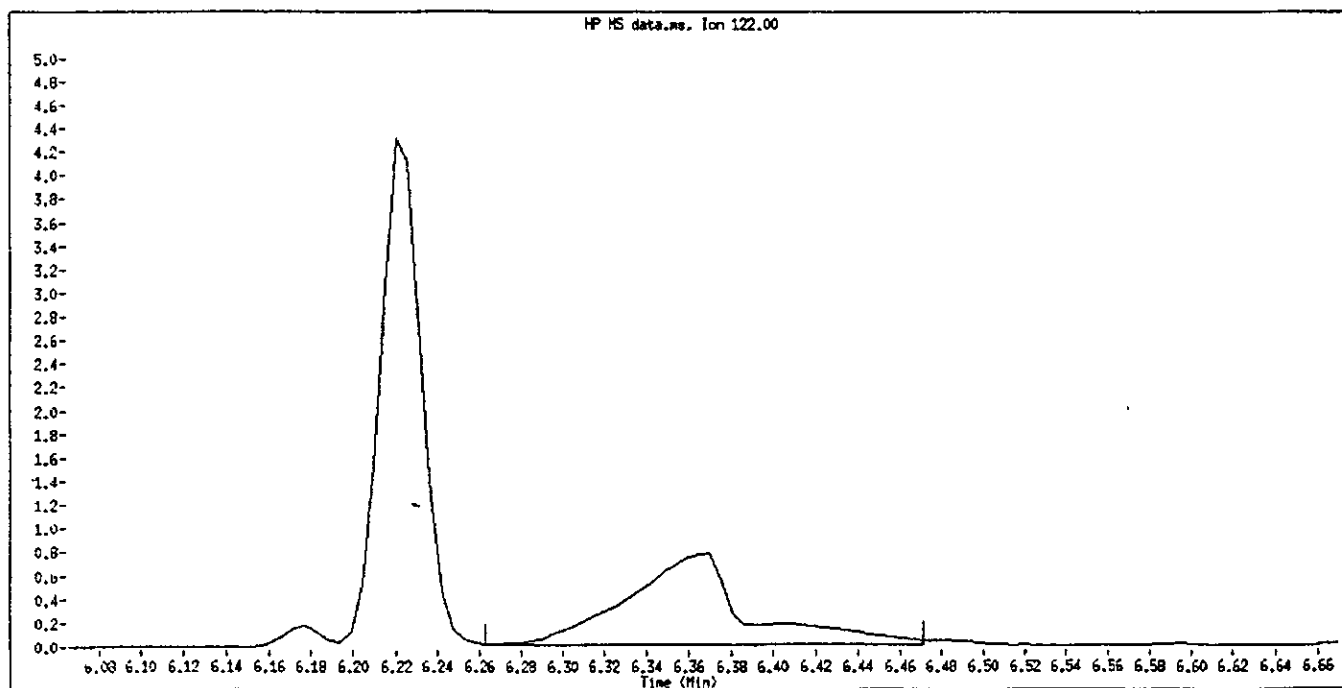
Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Data File Name S0830CCJ.D
Inj Date and Time 29-AUG-2000 11 15
Instrument ID 71 i
Client ID sstd80
Compound Name Benzoic Acid
CAS # 65-85-0
Report Date 08/29/2000

672 984



Original Integration

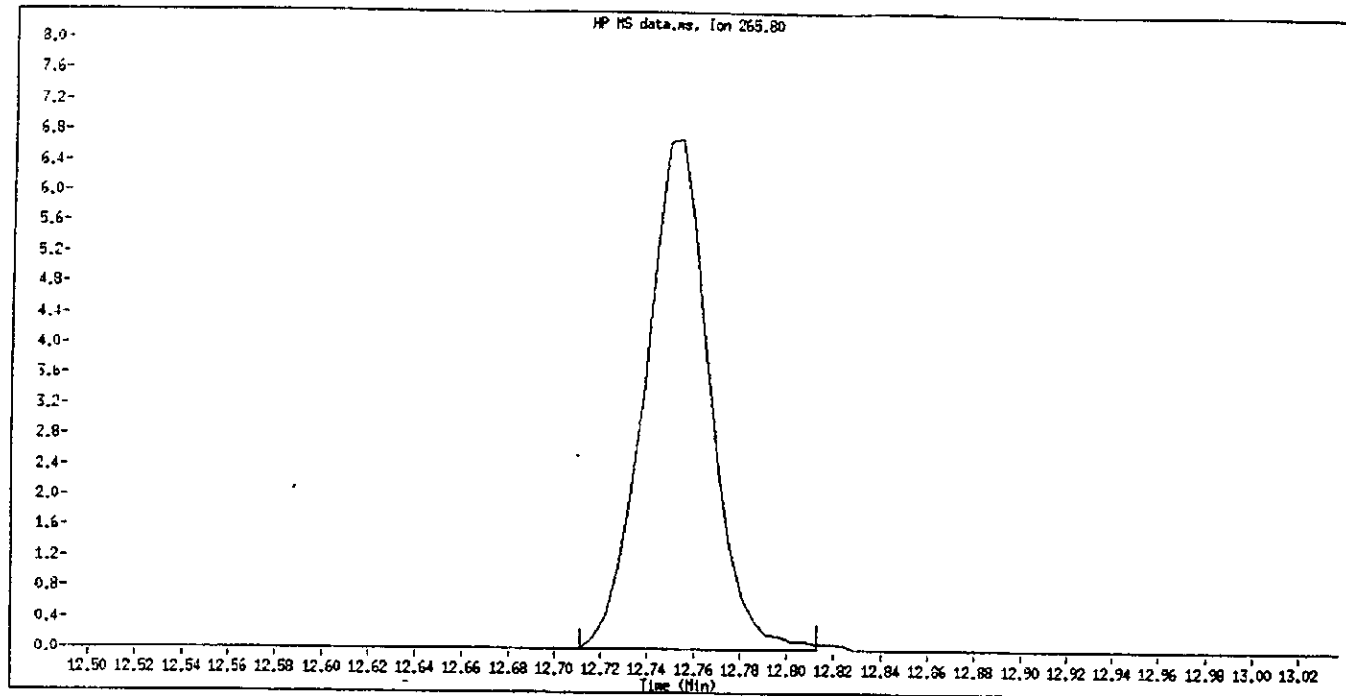


Manual Integration

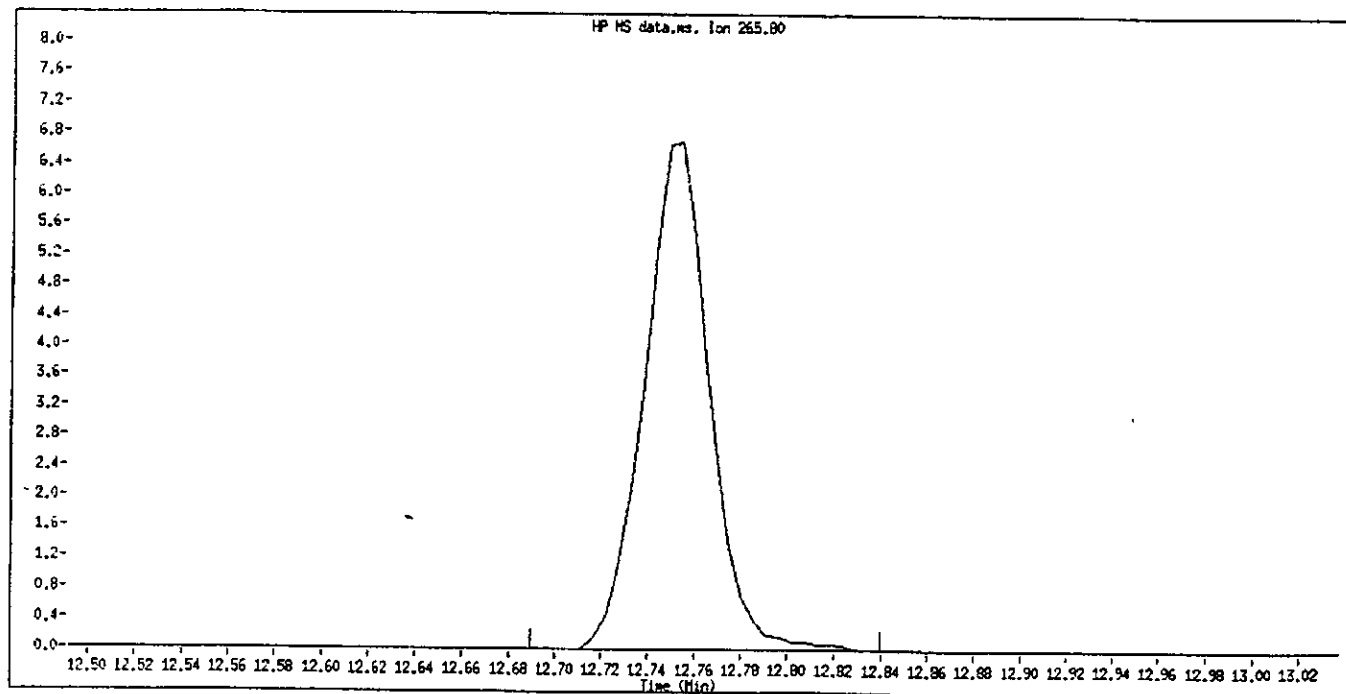
Manually Integrated By BachaS
Manual Integration Reason Unknown

672 985

Data File Name S0830CC3.D
Inj Date and Time 29-AUG-2000 11:15
Instrument ID 71.1
Client ID sstd80
Compound Name Pentachlorophenol
CAS # 97-86-5
Report Date 08/29/2000



Original Integration

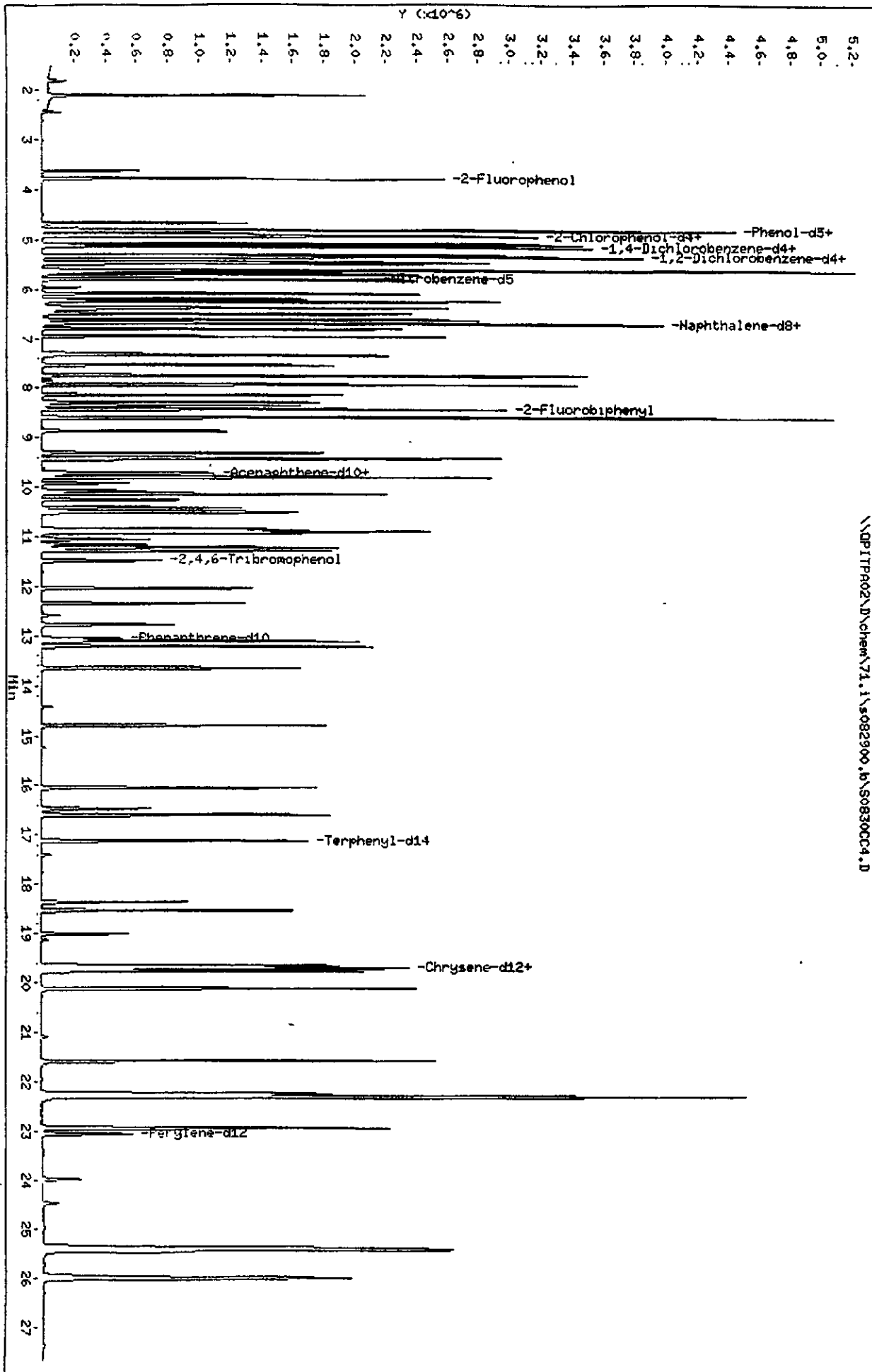


Manual Integration

Manually Integrated By BachaS
Manual Integration Reason Poor Chromatography

Data File: \\NPITPA02\chem\71.1\5082900.b\50830CC4.D
Date: 29-AUG-2000 11:49
Client ID: 557022
Sample Info: std120(60 ug/ml) 194-188-6 8270/cip
Volume Injected (uL): 2.0
Column Phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082900.b\S0830CC4.D
 Lab Smp Id: sstd120
 Inj Date : 29-AUG-2000 11:49
 Operator : 045183 Inst ID: 71.i
 Smp Info : sstd120(60 ug/ml) 194-188-6 8270/clp
 Misc Info : sstd120,s082900.b,8270clp.m,1-82701.sub,1,4
 Comment :
 Method : \\QPITPA02\D\chem\71.i\s082900.b\8270clp.m
 Meth Date : 29-Aug-2000 12:27 bachas Quant Type: ISTD
 Cal Date : 29-AUG-2000 11:49 Cal File: S0830CC4.D
 Als bottle: 97 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: 1-82701.sub
 Target Version: 4.04
 Processing Host: PITPC050

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						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
						(ng)	(ng)	
*****	----	--	-----	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5.115	5.115	(1.000)	273838	40.0000		
* 2 Naphthalene-d8	136	6.670	6.670	(1.000)	930586	40.0000		
* 3 Acenaphthene-d10	164	9.731	9.731	(1.000)	389929	40.0000		
* 4 Phenanthrene-d10	188	13.048	13.048	(1.000)	464844	40.0000		
* 5 Chrysene-d12	240	19.694	19.694	(1.000)	572495	40.0000		
* 6 Perylene-d12	264	23.059	23.059	(1.000)	499903	40.0000		
13 N-Nitrosodimethylamine	74	2.091	2.091	(0.409)	575580	120.000	114.08	(M)
10 Pyridine	79	2.081	2.081	(0.407)	950982	120.000	115.33	(M)
19 Methyl methanesulfonate	80	3.625	3.625	(0.709)	276780	120.000	119.85	
22 Aniline	93	4.816	4.816	(0.942)	1290922	120.000	109.83	
23 Phenol	94	4.805	4.805	(0.939)	1226292	120.000	105.43	
24 bis(2-Chloroethyl)ether	93	4.885	4.885	(0.955)	1058635	120.000	113.48	
25 2-Chlorophenol	128	4.928	4.928	(0.963)	1054213	120.000	111.79	

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
27 1,3-Dichlorobenzene	146	5.078	5.078	(0.993)	1179228	120.000	114.07
28 1,4-Dichlorobenzene	146	5.137	5.137	(1.004)	1175596	120.000	112.52
29 1,2-Dichlorobenzene	146	5.345	5.345	(1.045)	1050363	120.000	110.72
30 Benzyl Alcohol	108	5.297	5.297	(1.036)	743547	120.000	118.31
31 2-Methylphenol	108	5.446	5.446	(1.065)	941625	120.000	116.43
32 2,2'-oxybis(1-Chloropropane)	45	5.473	5.473	(1.070)	1328851	120.000	113.91
33 N-Nitroso-di-n-propylamine	70	5.639	5.639	(1.102)	671153	120.000	117.57
35 4-Methylphenol	108	5.607	5.607	(1.096)	883664	120.000	107.99
38 Hexachloroethane	117	5.692	5.692	(1.113)	423232	120.000	115.84
39 Nitrobenzene	77	5.804	5.804	(0.870)	982728	120.000	119.07
44 Isophorone	82	6.082	6.082	(0.912)	1633489	120.000	118.74
45 2-Nitrophenol	139	6.194	6.194	(0.929)	565032	120.000	123.84
46 2,4-Dimethylphenol	107	6.237	6.237	(0.935)	873091	120.000	119.73
47 bis(2-Chloroethoxy)methane	93	6.371	6.371	(0.955)	1125242	120.000	118.23
51 2,4-Dichlorophenol	162	6.493	6.493	(0.974)	769273	120.000	121.27
52 Benzoic Acid	122	6.403	6.403	(0.960)	484138	120.000	154.37 (M)
53 1,2,4-Trichlorobenzene	180	6.611	6.611	(0.991)	866495	120.000	120.33
54 Naphthalene	128	6.696	6.696	(1.004)	2882513	120.000	116.09
55 4-Chloroaniline	127	6.798	6.798	(1.019)	1117554	120.000	118.17
59 Hexachlorobutadiene	225	6.953	6.953	(1.042)	446863	120.000	122.32
62 4-Chloro-3-Methylphenol	107	7.535	7.535	(1.130)	682771	120.000	122.07
65 2-Methylnaphthalene	142	7.749	7.749	(1.162)	1834027	120.000	119.62
66 1-Methylnaphthalene	142	7.930	7.930	(1.189)	1746011	120.000	120.66
67 Hexachlorocyclopentadiene	237	8.139	8.139	(0.836)	502406	120.000	133.31
69 2,4,6-Trichlorophenol	196	8.283	8.283	(0.851)	470918	120.000	126.39
70 2,4,5-Trichlorophenol	196	8.352	8.352	(0.858)	478023	120.000	125.44
73 2-Chloronaphthalene	162	8.604	8.604	(0.884)	1495236	120.000	117.23
77 2-Nitroaniline	65	8.865	8.865	(0.911)	356773	120.000	126.84
80 Dimethylnthalate	163	9.309	9.309	(0.957)	1478706	120.000	124.32
82 2,6-Dinitrocoluene	165	9.437	9.437	(0.970)	336892	120.000	129.21
83 Acenaphthylene	152	9.416	9.416	(0.968)	2277837	120.000	123.39
85 3-Nitroaniline	138	9.704	9.704	(0.997)	381015	120.000	127.15
86 Acenaphthene	153	9.800	9.800	(1.007)	1427092	120.000	123.20
87 2,4-Dinitrophenol	184	9.918	9.918	(1.019)	184148	120.000	166.34 (A)
89 4-Nitrophenol	109	10.078	10.078	(1.036)	138028	120.000	134.56
90 Dibenzofuran	168	10.137	10.137	(1.042)	1892277	120.000	122.43
91 2,4-Dinitrotoluene	165	10.254	10.254	(1.054)	396388	120.000	130.62
95 2,3,5,6-Tetrachlorophenol	232	10.409	10.409	(1.070)	329755	120.000	133.69
92 2,3,4,6-Tetrachlorophenol	232	10.511	10.511	(1.080)	324613	120.000	131.82
96 2-Naphthylamine	143	10.484	10.484	(1.077)	999008	120.000	121.36
97 Diethylphthalate	149	10.853	10.853	(1.115)	1347554	120.000	126.88
98 Fluorene	166	10.890	10.890	(1.119)	1521351	120.000	126.44
99 4-Chlorophenyl-phenylether	204	10.927	10.927	(1.123)	703928	120.000	126.99
100 4-Nitroaniline	138	11.050	11.050	(1.136)	335188	120.000	130.74
102 4,6-Dinitro-2-methylphenol	198	11.152	11.152	(0.855)	239884	120.000	149.87
103 N-Nitrosodiphenylamine (1)	169	11.216	11.216	(0.860)	984735	120.000	128.66
104 1,2-Diphenylhydrazine	77	11.280	11.280	(0.864)	1398947	120.000	123.72

672 984

Data File: \\QPITPA02\D\chem\71.i\s082900.b\S0830CC4.D
Report Date: 29-Aug-2000 12:27

Page 3

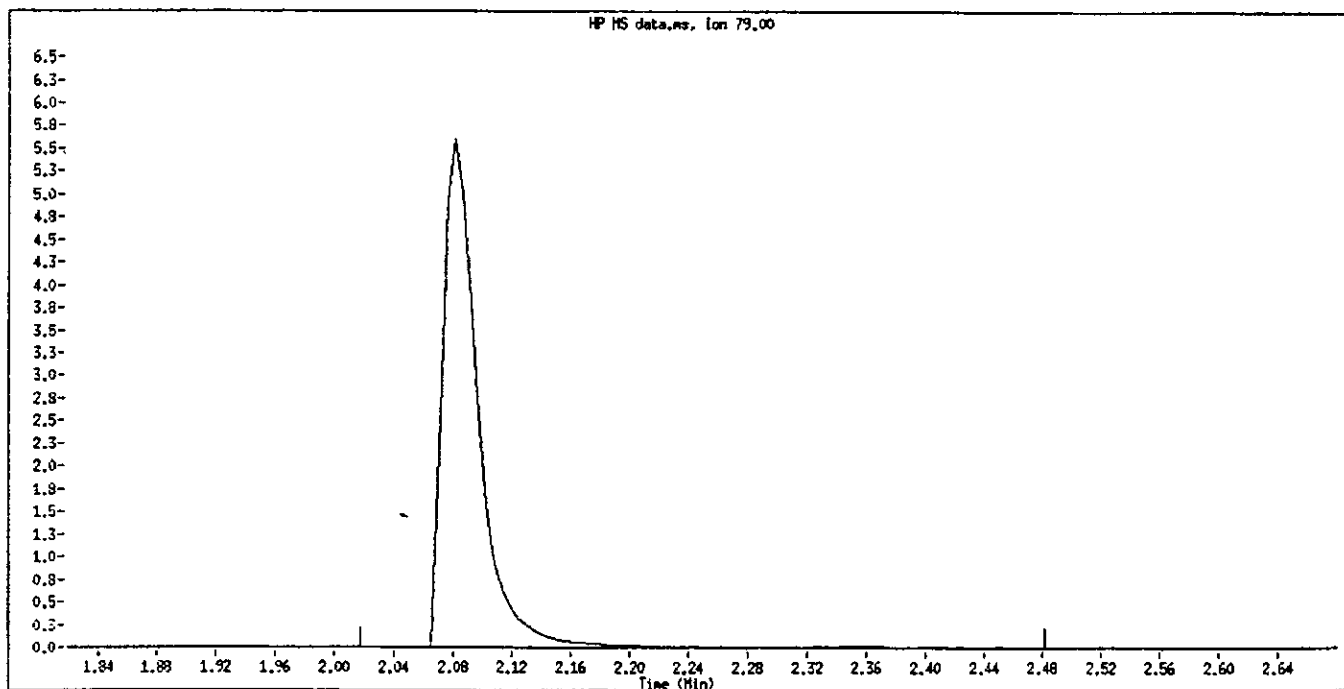
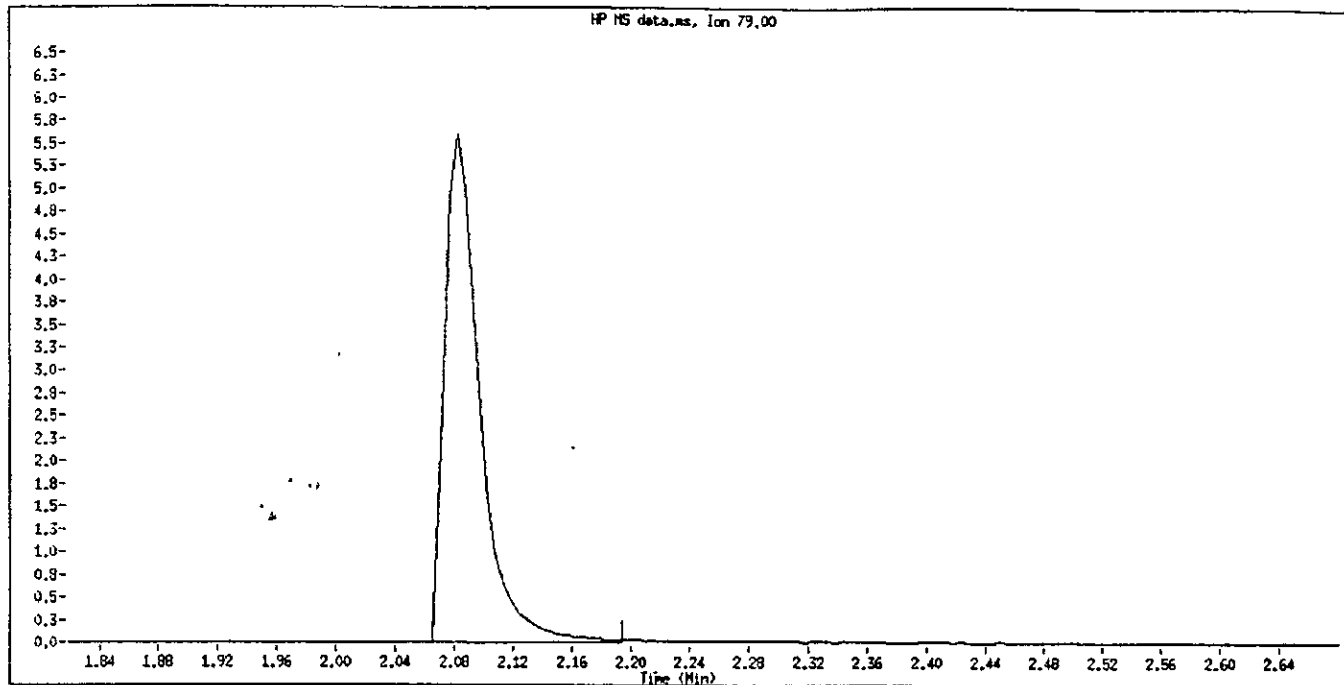
Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
=====	----	==	-----	-----	-----	-----	-----
112 4-Bromophenyl-phenylether	248	12.039	12.039	(0.923)	352144	120.000	132.65
113 Hexachlorocyclohexene	284	12.343	12.343	(0.946)	370529	120.000	132.01
117 Pentachlorophenol	266	12.776	12.776	(0.979)	205872	120.000	145.28 (M)
122 Phenanthrene	178	13.107	13.107	(1.004)	1770647	120.000	128.92
123 Anthracene	178	13.214	13.214	(1.013)	1824603	120.000	130.07
126 Carbazole	167	13.652	13.652	(1.046)	1603513	120.000	134.92
130 Di-n-Butylphthalate	149	14.790	14.790	(1.133)	1855460	120.000	138.34
135 Fluoranthene	202	16.050	16.050	(1.230)	1627662	120.000	143.37
136 Benzidine	184	16.467	16.467	(0.836)	647461	120.000	117.51
137 Pyrene	202	16.595	16.595	(0.843)	1696974	120.000	108.22
144 Butylbenzylphthalate	149	18.540	18.540	(0.941)	815627	120.000	118.49
149 3,3'-Dichlorobenzidine	252	19.705	19.705	(1.001)	880938	120.000	129.65
150 Benzo(a)Anthracene	228	19.656	19.656	(0.998)	1794986	120.000	124.30
151 Chrysene	228	19.763	19.763	(1.004)	1729534	120.000	122.13
153 bis(2-ethylhexyl)Phthalate	149	20.111	20.111	(1.021)	1208214	120.000	123.30
155 Di-n-octylphthalate	149	21.585	21.585	(0.936)	2305431	120.000	135.32
157 Benzo(b)fluoranthene	252	22.253	22.253	(0.965)	2111806	120.000	134.46
158 Benzo(k)fluoranthene	252	22.317	22.317	(0.968)	2830494	120.000	136.45
159 7,12-dimethylbenz[a]anthracene	256	22.311	22.311	(0.968)	1231149	120.000	139.15
167 Benzo(a)pyrene	252	22.947	22.947	(0.995)	2193911	120.000	140.07
169 Indeno(1,2,3-cd)pyrene	276	25.378	25.378	(1.101)	3318490	120.000	139.52
170 Dibenz(a,h)anthracene	278	25.426	25.426	(1.103)	3024088	120.000	140.80
171 Benzo(g,h,i)perylene	276	25.992	25.992	(1.127)	2775699	120.000	138.42
\$ 172 Nitrobenzene-d5	82	5.783	5.783	(0.867)	977691	120.000	120.04
\$ 173 2-Fluorobiphenyl	172	8.427	8.427	(0.866)	1764032	120.000	123.92
\$ 174 Terphenyl-d14	244	17.124	17.124	(0.870)	1261530	120.000	112.80
\$ 175 Phenol-d5	99	4.789	4.789	(0.936)	1226493	120.000	110.76
\$ 176 2-Fluorophenol	112	3.774	3.774	(0.738)	1036536	120.000	113.91
\$ 177 2,4,6-Tribromophenol	330	11.478	11.478	(0.880)	185832	120.000	138.11
\$ 178 2-Chlorophenol-d4	132	4.912	4.912	(0.960)	972583	120.000	113.17
\$ 179 1,2-Dichlorobenzene-d4	152	5.329	5.329	(1.042)	683463	120.000	111.24

QC Flag Legend

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

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Instrument ID: 711
Client ID: SST0120
Compound Name: Pyridine
CAS #: 110-86-1
Report Date: 08/29/2000

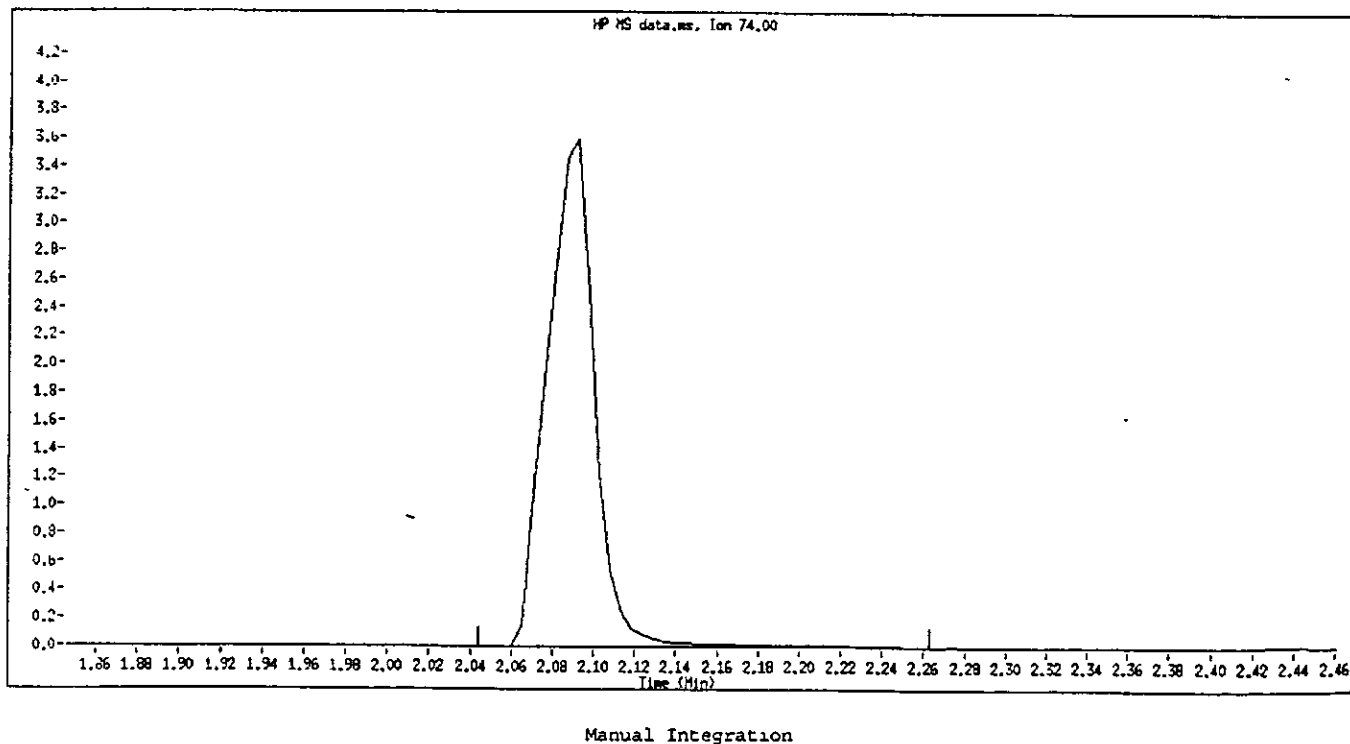
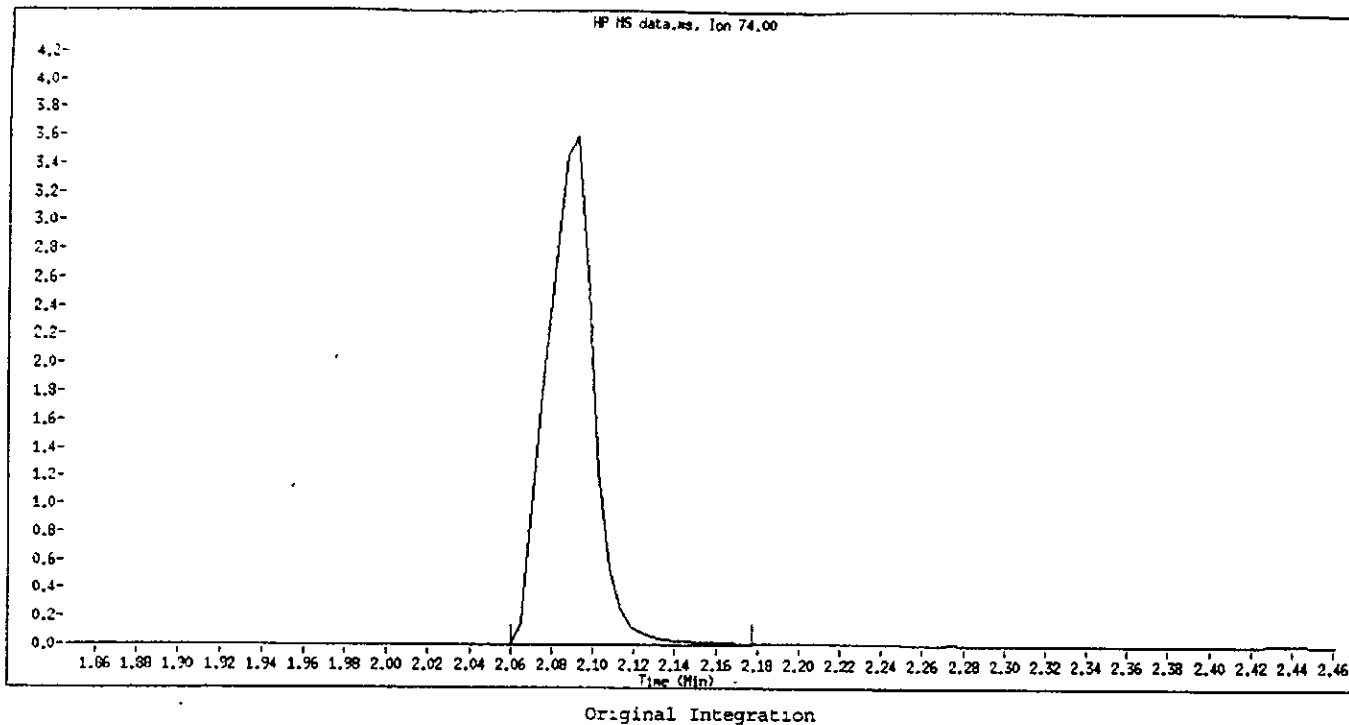
672 990



Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

672 991

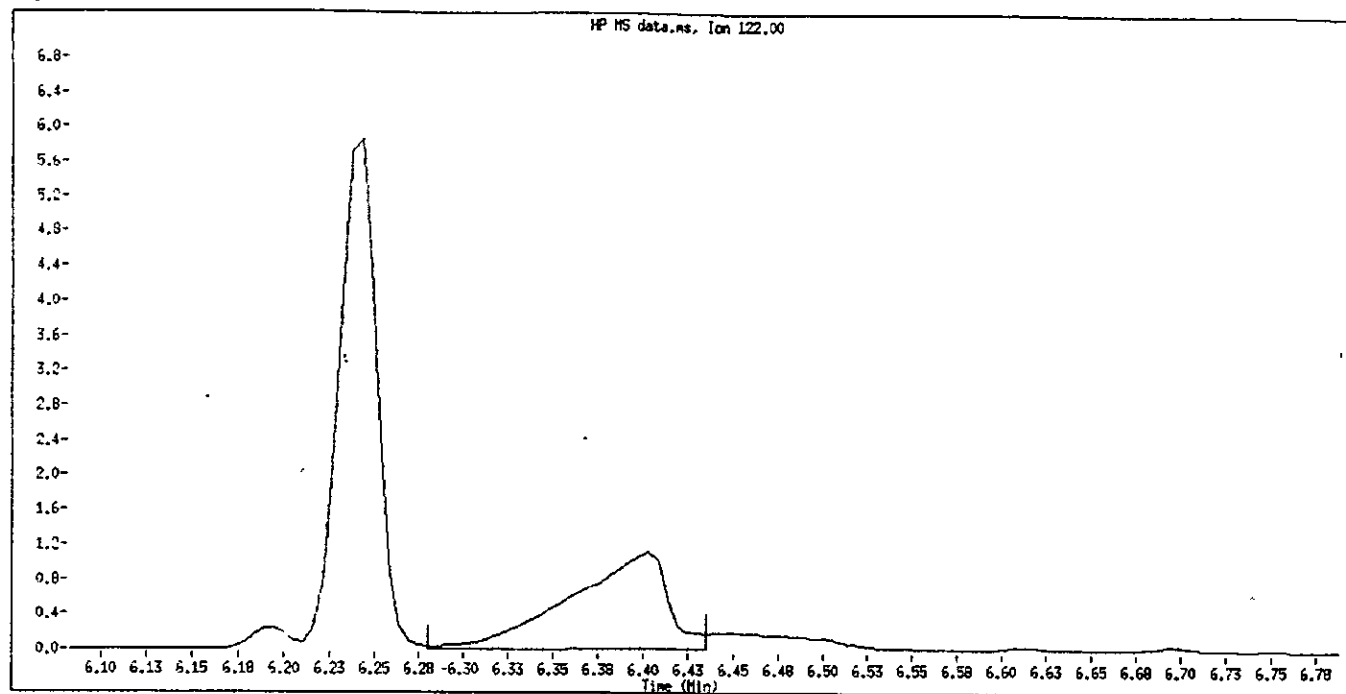
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Inj Date and Time 29-AUG-2000 11.49
Instrument ID 71.1
Client ID SSTNW
Compound Name N-Nitrosodimethylamine
CAS # 62-75-9
Report Date 08/29/2000



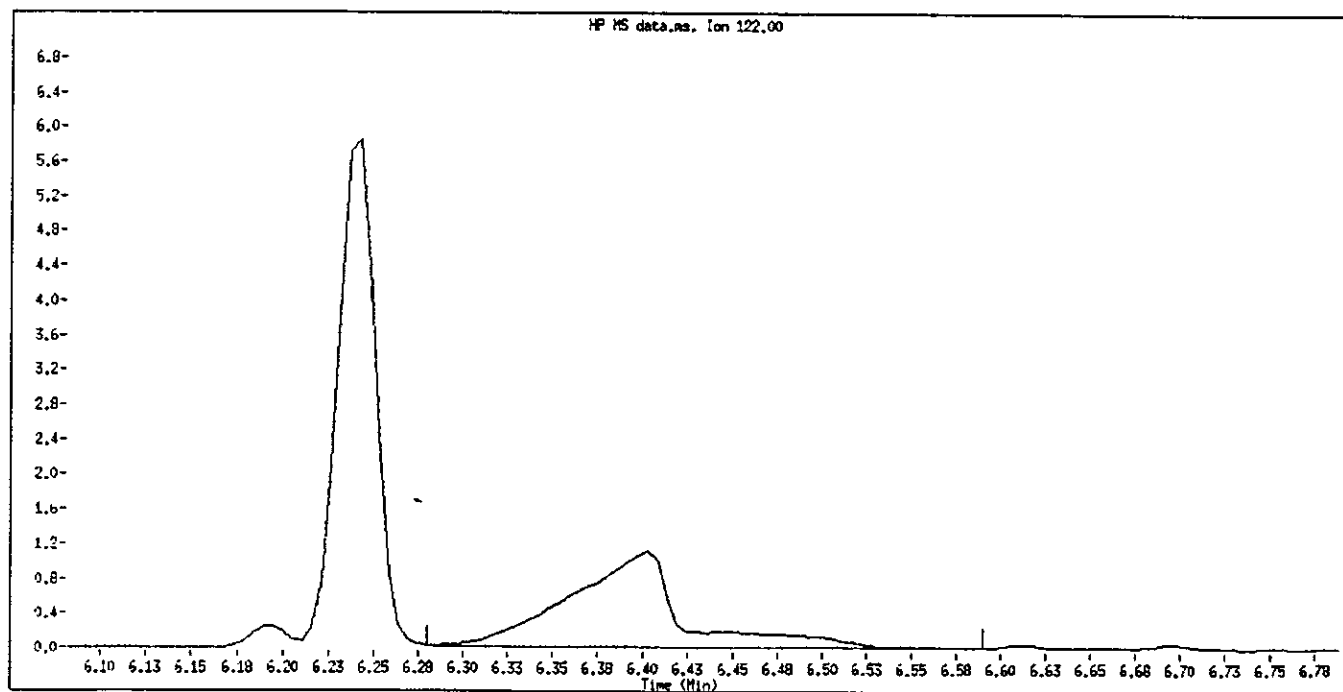
Manually Integrated By BachaS
Manual Integration Reason Poor Chromatography

Data File Name S0830CC4 D
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Instrument ID 71.1
Client ID *SST0120*
Compound Name Benzoic Acid
CAS # 65-85-0
Report Date 08/29/2000

672 992



Original Integration

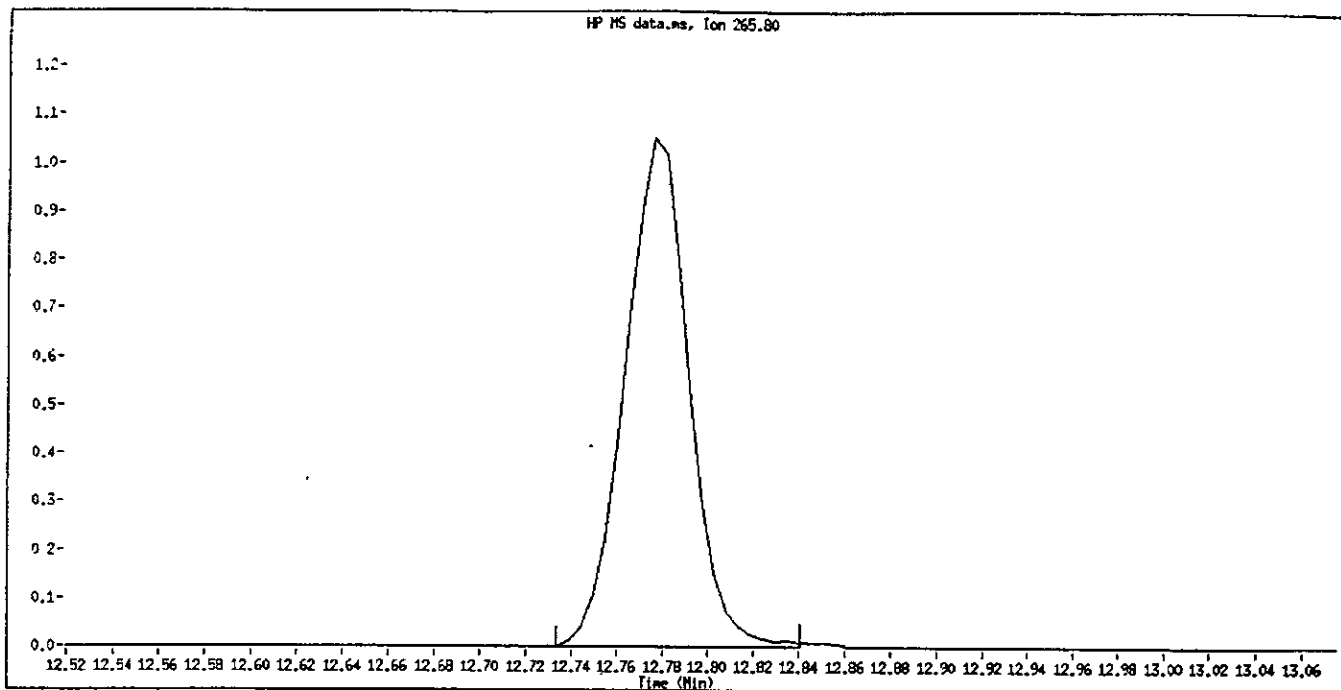


Manual Integration

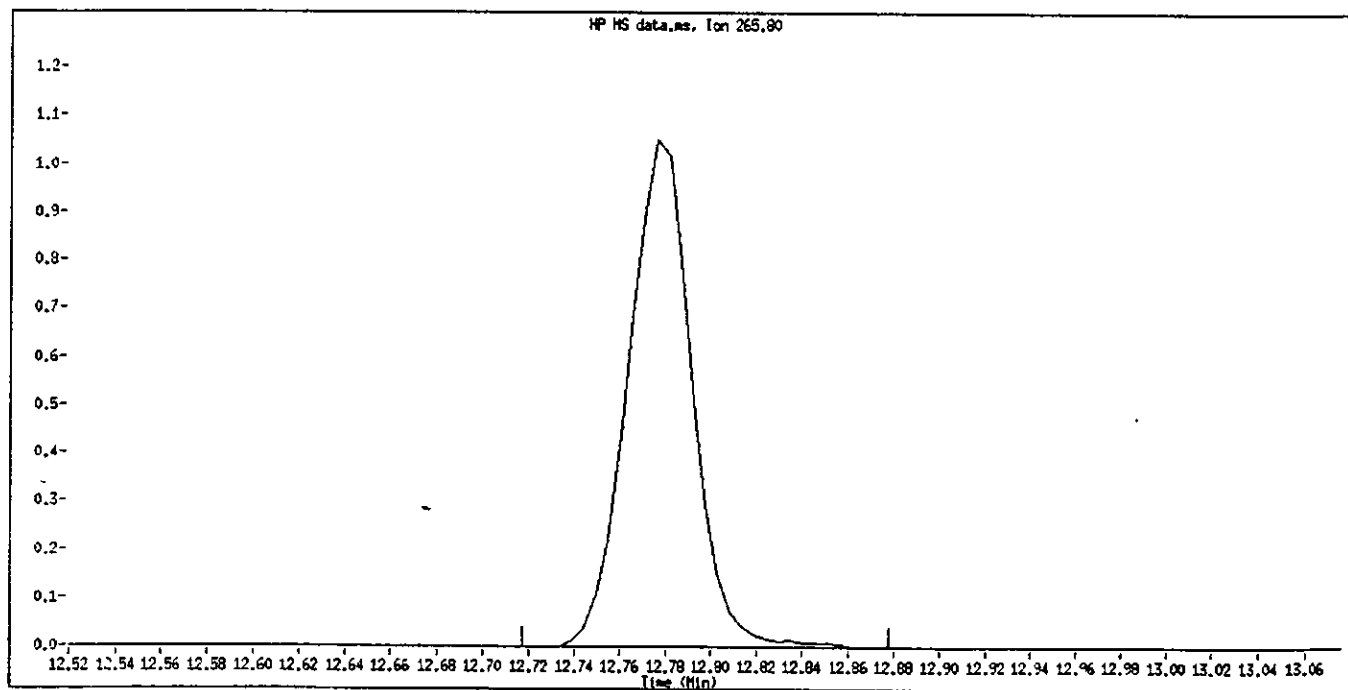
Manually Integrated By BachaS
Manual Integration Reason Poor Chromatography

672 993

Data File Name S0830CC4.D
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Instrument ID 711
Client ID 557020
Compound Name Pentachlorophenol
CAS # 87-86-5
Report Date 08/29/2000



Original Integration

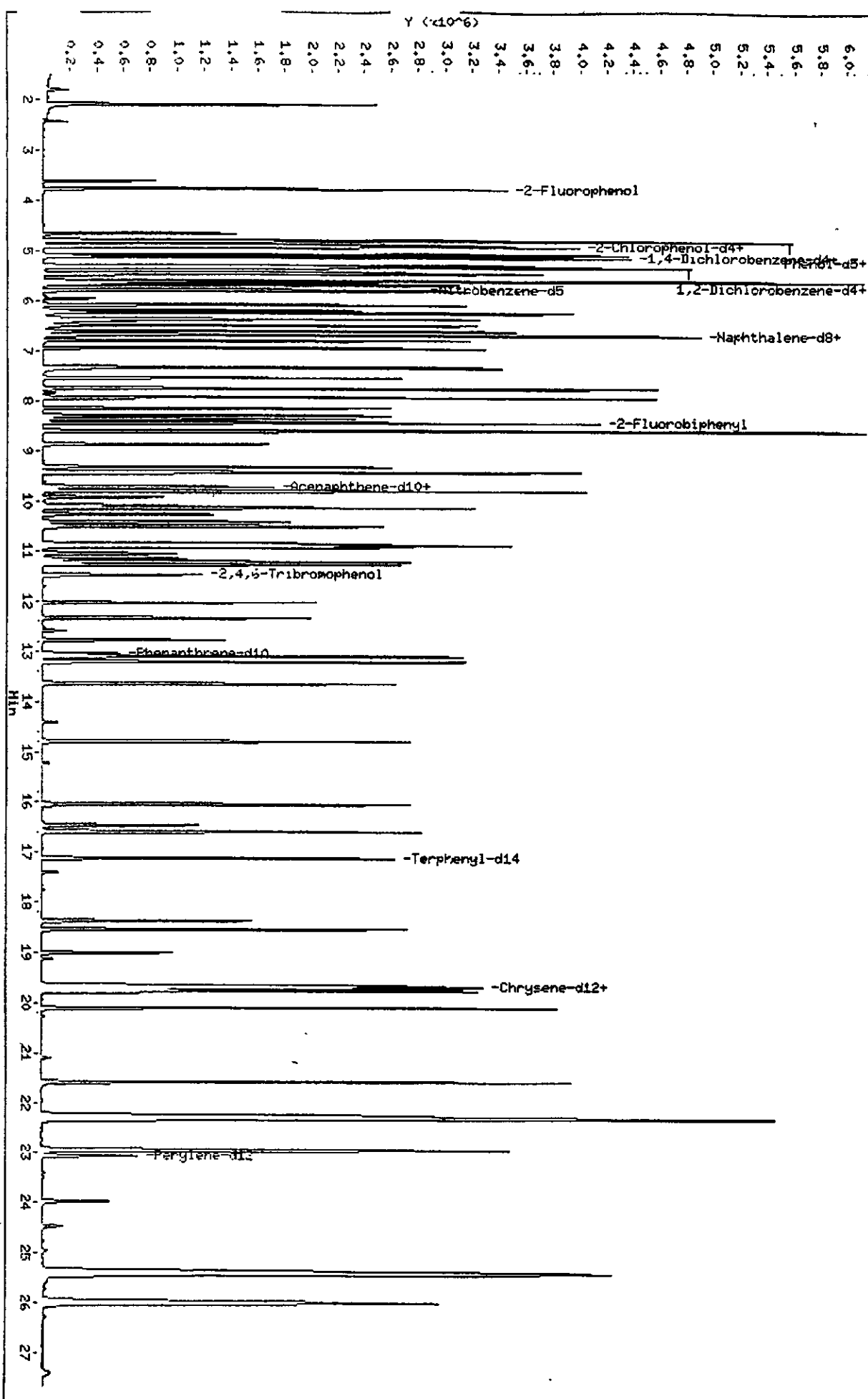


Manual Integration

Manually Integrated By BachaS
Manual Integration Reason Poor Chromatography

Data File: \\QPI1P602\J\chem\71.1\5082900.b\508300C05.D
Date: 29-AUG-2000 12:23
Client ID: std160
Sample Info: std160(80 ug/ml) 194-188-7 8270/c1p
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s082900.b\S0830CC5.D
Lab Smp Id: sstd160 Client Smp ID: sstd160
Inj Date : 29-AUG-2000 12:23
Operator : 045183 Inst ID: 71.i
Smp Info : sstd160(80 ug/ml) 194-188-7 8270/clp
Misc Info : sstd160,s082900.b,8270clp.m,1-82701.sub,1,5
Comment :
Method : \\QPITPA02\D\chem\71.i\s082900.b\8270clp.m
Meth Date : 29-Aug-2000 13:34 bachas Quant Type: ISTD
Cal Date : 29-AUG-2000 12:23 Cal File: S0830CC5.D
Als bottle: 98 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	----	==	=====	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	5.115	5.115	(1.000)	284910	40.0000	
* 2 Napthalene-d8	136	6.669	6.669	(1.000)	982792	40.0000	
* 3 Acenaphthene-d10	164	9.730	9.730	(1.000)	423934	40.0000	
* 4 Phenanthrene-d10	188	13.048	13.048	(1.000)	524537	40.0000	
* 5 Chrysene-d12	240	19.699	19.699	(1.000)	699671	40.0000	
* 6 Perylene-d12	264	23.059	23.059	(1.000)	617494	40.0000	
13 N-Nitrosodimethylamine	74	2.091	2.091	(0.409)	791432	160.000	152.52(M)
10 Pyridine	79	2.075	2.075	(0.406)	1292990	160.000	152.49(M)
19 Methyl methanesulfonate	80	3.619	3.619	(0.708)	386035	160.000	160.53(A)
22 Aniline	93	4.816	4.816	(0.942)	1632941	160.000	138.10
23 Phenol	94	4.810	4.810	(0.940)	1550084	160.000	133.41
24 bis(2-Chloroethyl)ether	93	4.885	4.885	(0.955)	1395043	160.000	146.71
25 2-Chlorophenol	128	4.928	4.928	(0.963)	1370513	160.000	143.32
27 1,3-Dichlorobenzene	146	5.077	5.077	(0.993)	1539534	160.000	146.22
28 1,4-Dichlorobenzene	146	5.136	5.136	(1.004)	1530175	160.000	144.23
29 1,2-Dichlorobenzene	146	5.344	5.344	(1.045)	1324453	160.000	138.66
30 Benzyl Alcohol	108	5.302	5.302	(1.037)	1013445	160.000	155.97
31 2-Methylphenol	108	5.446	5.446	(1.065)	1287018	160.000	154.31
32 2,2'-oxybis(1-Chloropropane)	45	5.473	5.473	(1.070)	1800563	160.000	150.54
33 N-Nitroso-di-n-propylamine	70	5.644	5.644	(1.103)	942897	160.000	159.00
35 4-Methylphenol	108	5.612	5.612	(1.097)	1139306	160.000	138.35
38 Hexachloroethane	117	5.686	5.686	(1.112)	569225	160.000	151.69
39 Nitrobenzene	77	5.804	5.804	(0.870)	1351746	160.000	156.04
44 Isophorone	82	6.087	6.087	(0.913)	2275921	160.000	157.32
45 2-Nitrophenol	139	6.194	6.194	(0.929)	799005	160.000	164.62(A)
46 2,4-Dimethylphenol	107	6.242	6.242	(0.936)	1213836	160.000	158.08

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT (ng)	ON-COL (ng)
47 bis (2-Chloroethoxy)methane	93	6.370	6.370	(0.955)	1531920	160 000	153.87
51 2,4-Dichlorophenol	162	6.493	6.493	(0.974)	1070406	160 000	159.82
52 Benzoic Acid	122	6.429	6.429	(0.964)	732448	160 000	205.44 (AM)
53 1,2,4-Trichlorobenzene	180	6.611	6.611	(0.991)	1165639	160 000	154.58
54 Naphthalene	128	6.696	6.696	(1.004)	3791933	160 000	147.44
55 4-Chloroaniline	127	6.798	6.798	(1.019)	1562296	160 000	157.12
59 Hexachlorobutadiene	225	6.952	6.952	(1.042)	597843	160.000	155.93
62 4-Chloro-3-Methylphenol	107	7.540	7.540	(1.131)	987383	160 000	165.67 (A)
65 2-Methylnaphthalene	142	7.743	7.743	(1.161)	2504160	160 000	155.69
66 1-Methylnaphthalene	142	7.930	7.930	(1.189)	2384386	160 000	156.80
67 Hexachlorocyclopentadiene	237	8.138	8.138	(0.936)	720223	160 000	172.38 (A)
69 2,4,6-Trichlorophenol	196	8.283	8.283	(0.951)	686864	160.000	167.56 (A)
70 2,4,5-Trichlorophenol	196	8.352	8.352	(0.958)	699048	160 000	166.91 (A)
73 2-Chloronaphthalene	162	8.609	8.609	(0.885)	1939027	160 000	143.45
77 2-Nitroaniline	65	8.865	8.865	(0.911)	532943	160 000	171.22 (A)
80 Dimethylnaphthalate	163	9.314	9.314	(0.957)	2157414	160 000	165.41 (A)
82 2,6-Dinitrotoluene	165	9.442	9.442	(0.970)	503137	160.000	173.69 (A)
83 Acenaphthylene	152	9.415	9.415	(0.968)	3251346	160 000	161.60 (A)
85 3-Nitroaniline	138	9.709	9.709	(0.998)	580444	160 000	174.21 (A)
86 Acenaphthene	153	9.800	9.800	(1.007)	2057373	160.000	162.68 (A)
87 2,4-Dinitrophenol	184	9.923	9.923	(1.020)	301293	160 000	224.93 (A)
89 4-Nitrophenol	109	10.083	10.083	(1.036)	218750	160 000	187.67 (A)
90 Dibenzofuran	168	10.136	10.136	(1.042)	2731854	160.000	162.05 (A)
91 2,4-Dinitrotoluene	165	10.265	10.265	(1.055)	608281	160 000	178.92 (A)
95 2,3,5,6-Tetrachlorophenol	232	10.414	10.414	(1.070)	502133	160 000	181.08 (A)
92 2,3,4,6-Tetrachlorophenol	232	10.516	10.516	(1.081)	499323	160 000	180.52 (A)
96 2-Naphthylamine	143	10.489	10.489	(1.078)	1464814	160.000	162.93 (A)
97 Diethylphthalate	149	10.852	10.852	(1.115)	2014951	160.000	171.39 (A)
98 Fluorene	166	10.890	10.890	(1.119)	2225730	160 000	168.01 (A)
99 4-Chlorophenyl-phenylether	204	10.927	10.927	(1.123)	1038292	160.000	169.68 (A)
100 4-Nitroaniline	138	11.061	11.061	(1.137)	525772	160 000	182.11 (A)
102 4,6-Dinitro-2-methylphenol	198	11.157	11.157	(0.855)	382720	160.000	198.99 (A)
103 N-Nitrosodiphenylamine (1)	169	11.221	11.221	(0.860)	1486247	160.000	169.53 (A)
104 2,2-Diphenylhydrazine	77	11.280	11.280	(0.864)	2044447	160.000	160.18 (A)
112 4-Bromophenyl-phenylether	248	12.038	12.038	(0.923)	544016	160 000	176.83 (A)
113 Hexachlorobenzene	284	12.343	12.343	(0.946)	567640	160.000	175.02 (A)
117 Pentachlorophenol	266	12.781	12.781	(0.980)	337338	160.000	198.33 (AM)
122 Phenanthrene	178	13.107	13.107	(1.004)	2716076	160.000	171.98 (A)
123 Anthracene	178	13.219	13.219	(1.013)	2793799	160.000	172.93 (A)
126 Carbazole	167	13.652	13.652	(1.046)	2531589	160 000	182.21 (A)
130 Di-n-Butylphthalate	149	14.789	14.789	(1.133)	2929768	160 000	185.78 (A)
135 Fluoranthene	202	16.050	16.050	(1.230)	2629097	160 000	194.25 (A)
136 Benzidine	184	16.467	16.467	(0.836)	1100804	160.000	162.77 (A)
137 Pyrene	202	16.595	16.595	(0.842)	2749384	160.000	146.50
144 Butylbenzylphthalate	149	18.534	18.534	(0.941)	1385131	160.000	163.69 (A)
149 3,3'-Dichlorobenzidine	252	19.709	19.709	(1.001)	1428806	160.000	169.50 (A)
150 Benzo(a)Anthracene	228	19.661	19.661	(0.998)	3007509	160 000	168.22 (A)

672 997

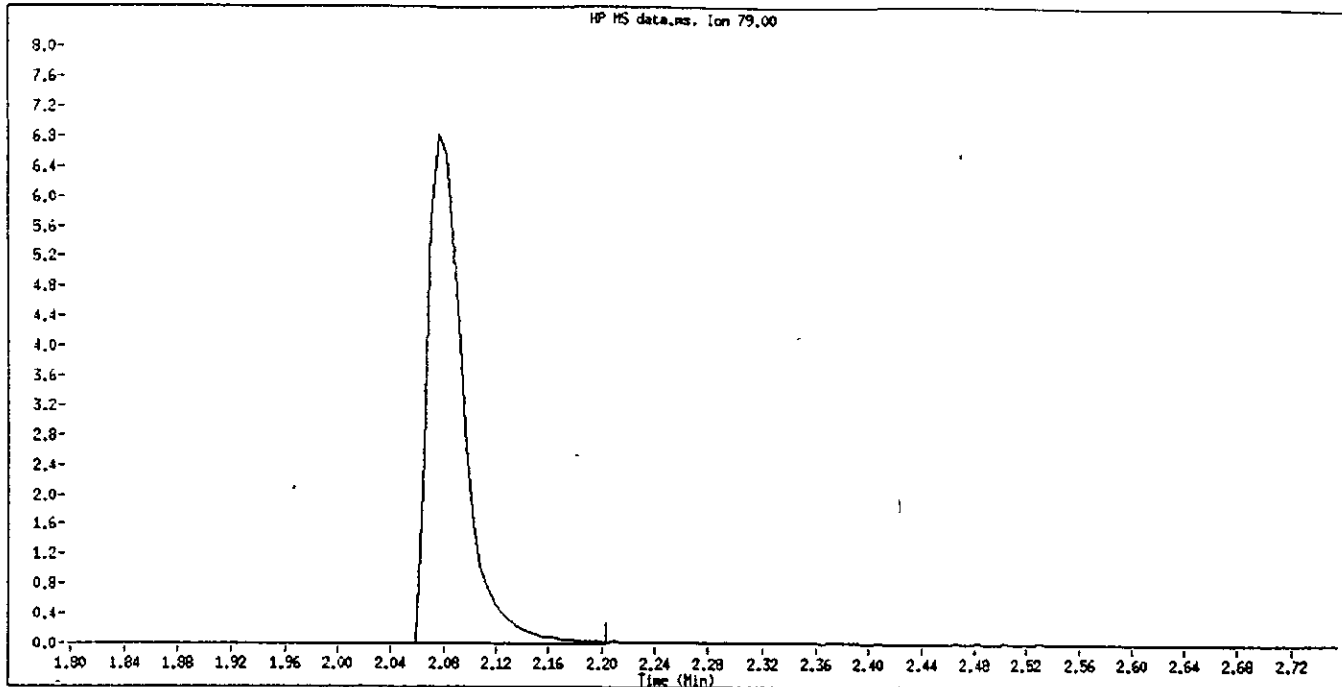
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ng)	ON-COL (ng)
-----	----	--	-----	-----	-----	-----	-----
151 Chrysene	228	19.768	19.768	(1.004)	2869353	160.000	164.60 (A)
153 bis(2-ethylhexyl) Phthalate	149	20.110	20.110	(1.021)	2020363	160.000	166.89 (A)
155 Di-n-octylphthalate	149	21.585	21.585	(0.936)	3793448	160.000	175.80 (A)
157 Benzo(b)fluoranthene	252	22.268	22.268	(0.966)	4221464	160.000	202.99 (A)
158 Benzo(k)fluoranthene	252	22.338	22.338	(0.969)	3717749	160.000	147.85 (M)
159 7,12-dimethylbenz(a)anthracen	256	22.327	22.327	(0.968)	1855780	160.000	167.75 (A)
167 Benzo(a)pyrene	252	22.958	22.958	(0.996)	3658054	160.000	182.44 (A)
169 Indeno(1,2,3-cd)pyrene	276	25.394	25.394	(1.101)	5661400	160.000	185.13 (A)
170 Dibenz(a,h)anthracene	278	25.447	25.447	(1.104)	5110833	160.000	185.09 (A)
171 Benzo(g,h,i)perylene	276	26.024	26.024	(1.129)	4919262	160.000	189.46 (A)
\$ 172 Nitrobenzene-d5	82	5.783	5.783	(0.867)	1366021	160.000	159.05
\$ 173 2-Fluorobiphenyl	172	8.432	8.432	(0.867)	2482134	160.000	160.30 (A)
\$ 174 Terphenyl-d14	244	17.124	17.124	(0.869)	2080146	160.000	153.69
\$ 175 Phenol-d5	99	4.794	4.794	(0.937)	1595666	160.000	142.33
\$ 176 2-Fluorophenol	112	3.774	3.774	(0.738)	1383912	160.000	148.74
\$ 177 2,4,6-Tribromophenol	330	11.483	11.483	(0.880)	287319	160.000	182.56 (A)
\$ 178 2-Chlorophenol-d4	132	4.912	4.912	(0.960)	1243767	160.000	142.84
\$ 179 1,2-Dichlorobenzene-d4	152	5.328	5.328	(1.042)	867954	160.000	140.02

QC Flag Legend

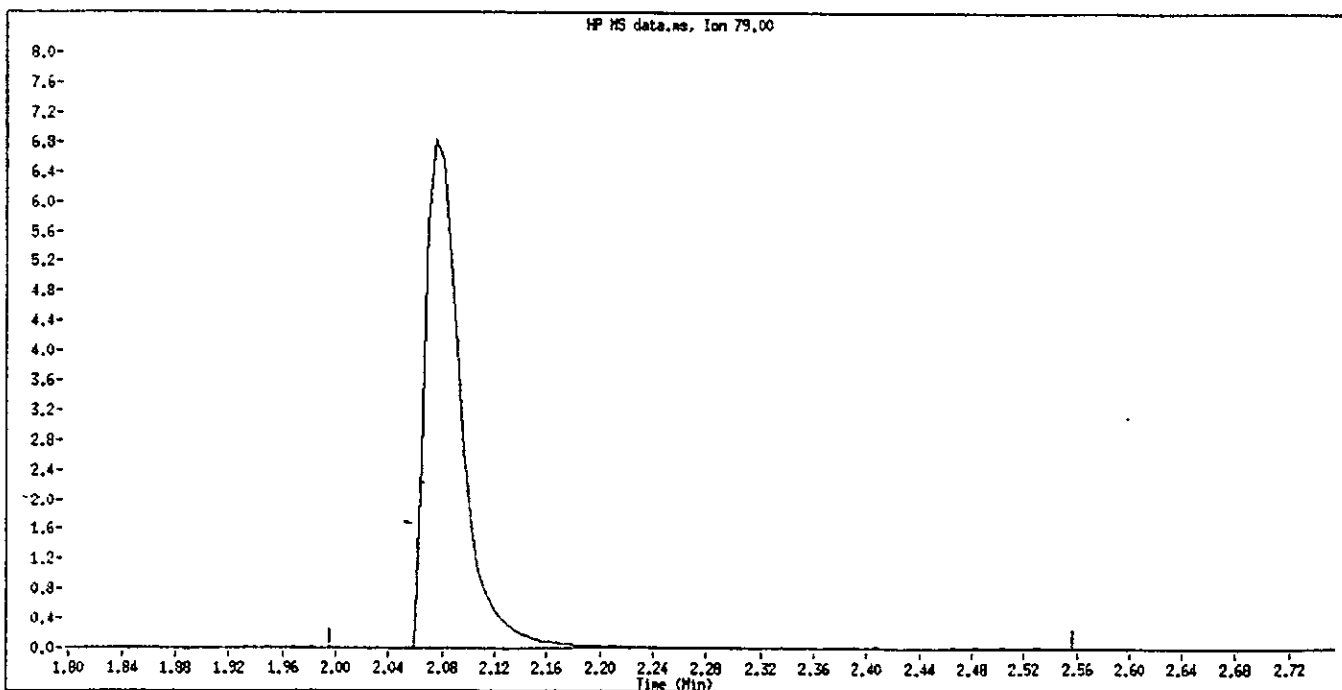
- A - Target compound detected but, quantitated amount exceeded maximum amount.
 M - Compound response manually integrated.

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Client ID sstd160
Compound Name Pyridine
CAS # 110-86-1
Report Date 08/29/2000

672 998



Original Integration

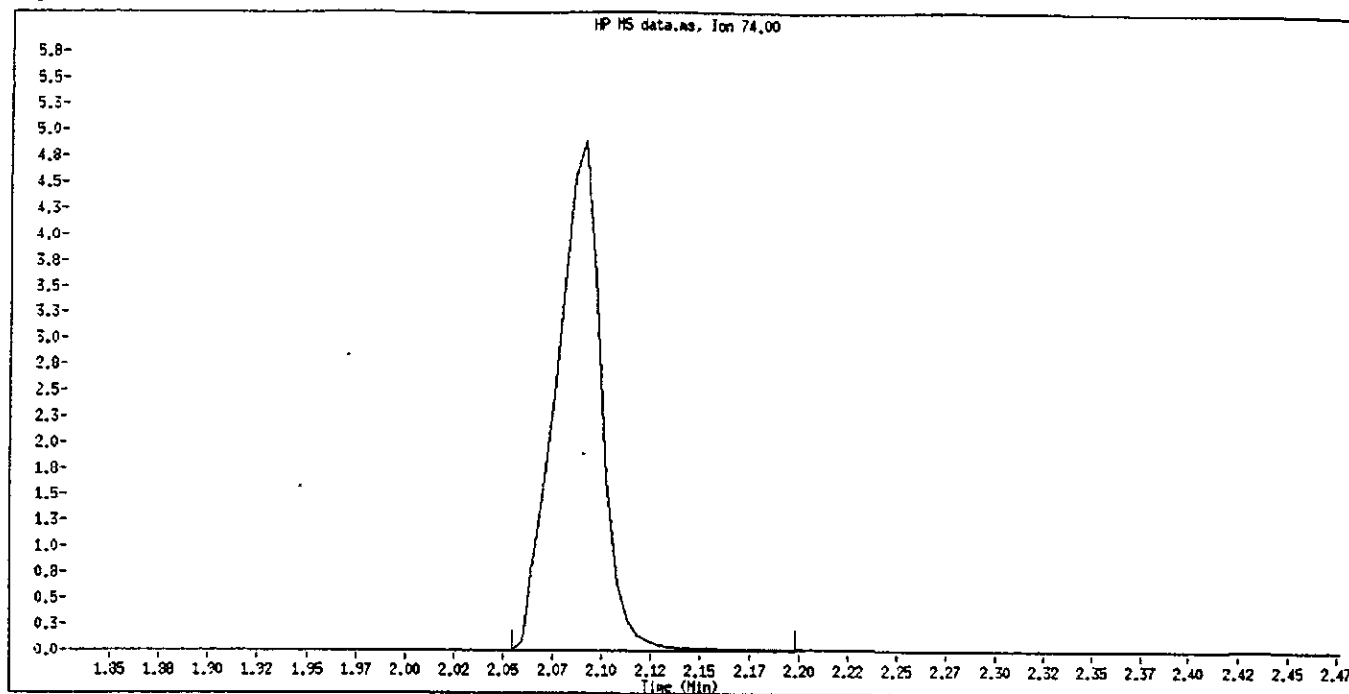


Manual Integration

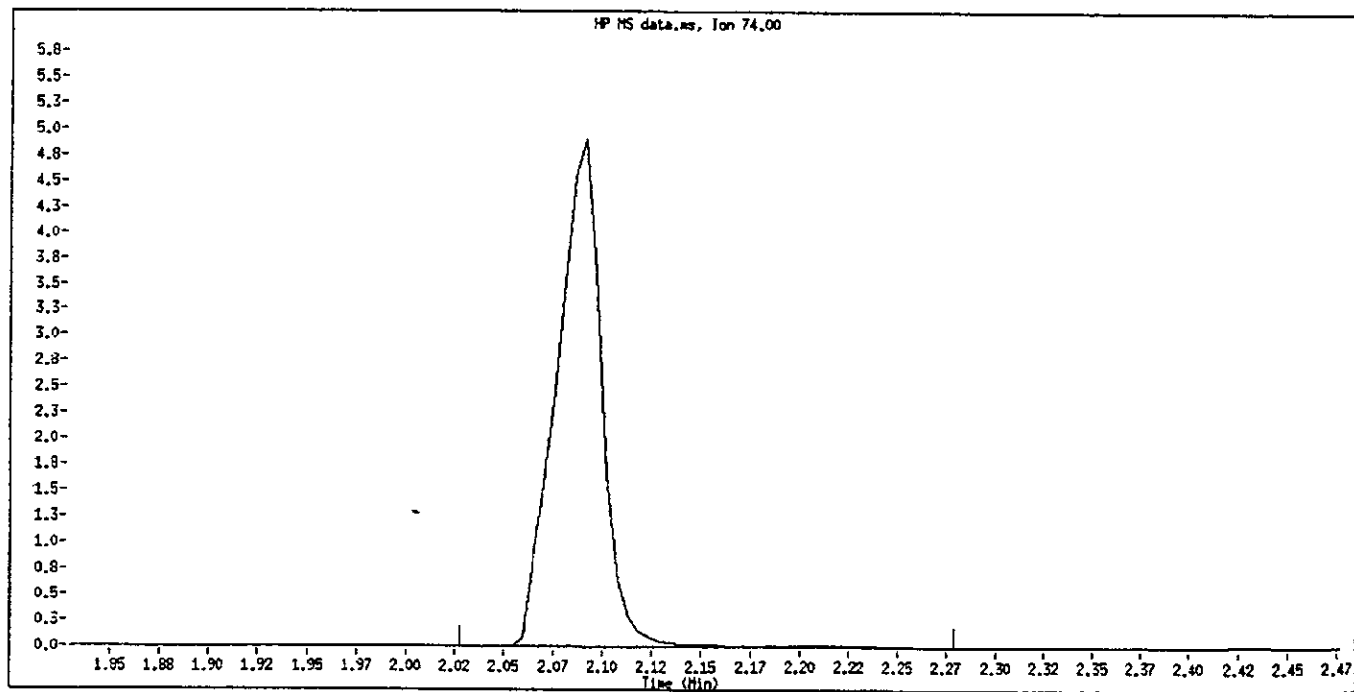
Manually Integrated By BachaS
Manual Integration Reason: Poor Chromatography

672 999

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Instrument ID 71 1
Client ID sstd160
Compound Name N-Nitrosodimethylamine
CAS # 62-75-3
Report Date 08/29/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

Inj Date and Time 29-AUG-2000 12 23

Instrument ID 71 1

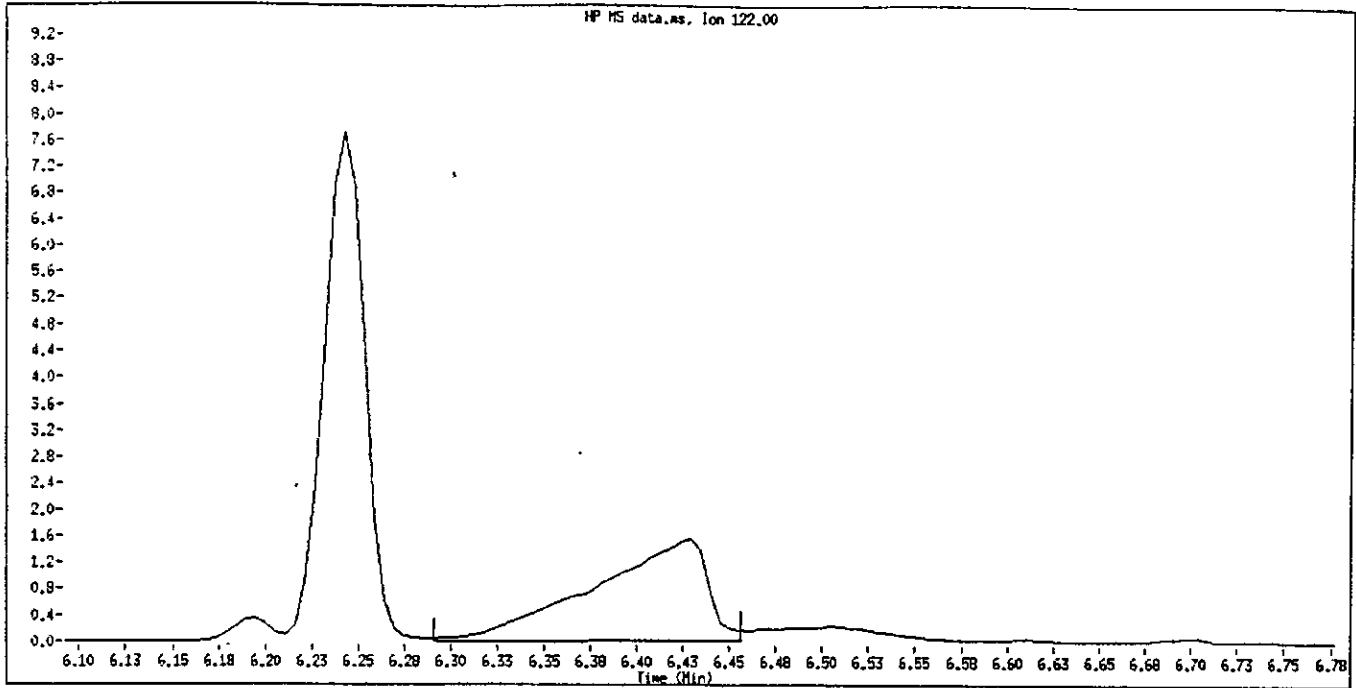
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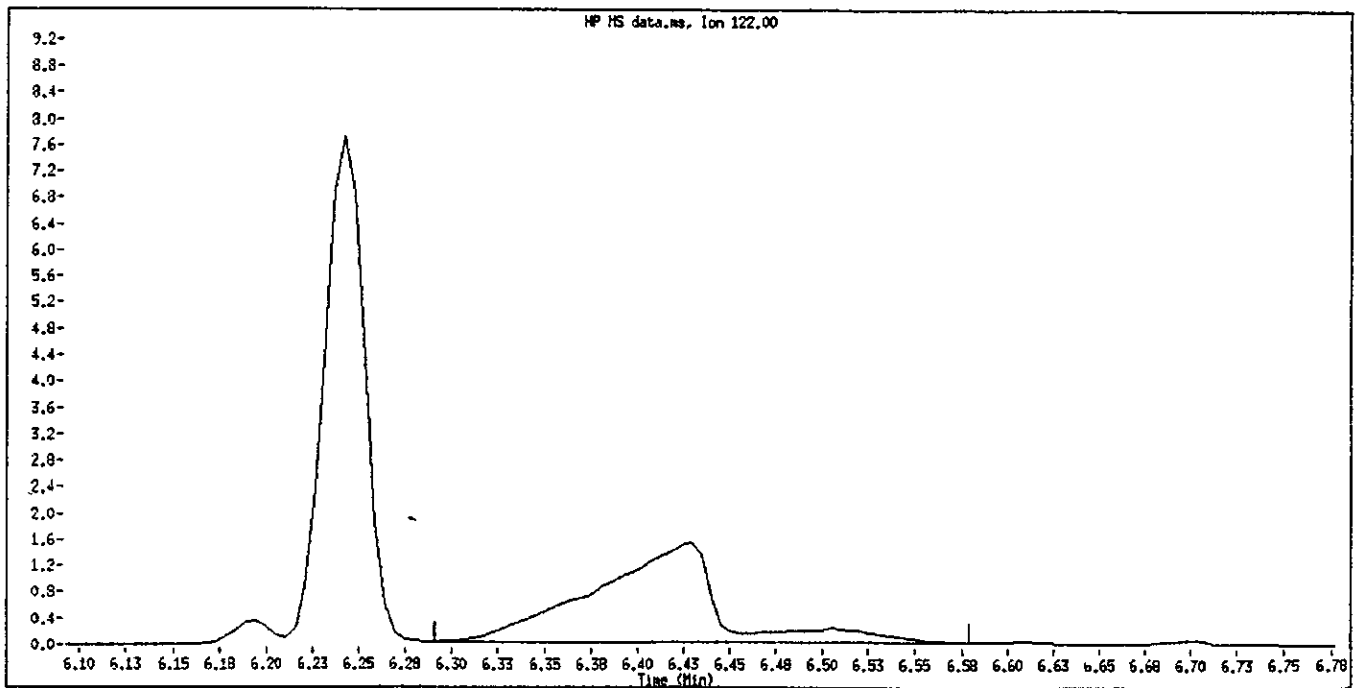
CAS # 65-85-0

Report Date 08/29/2000

6721000



Original Integration



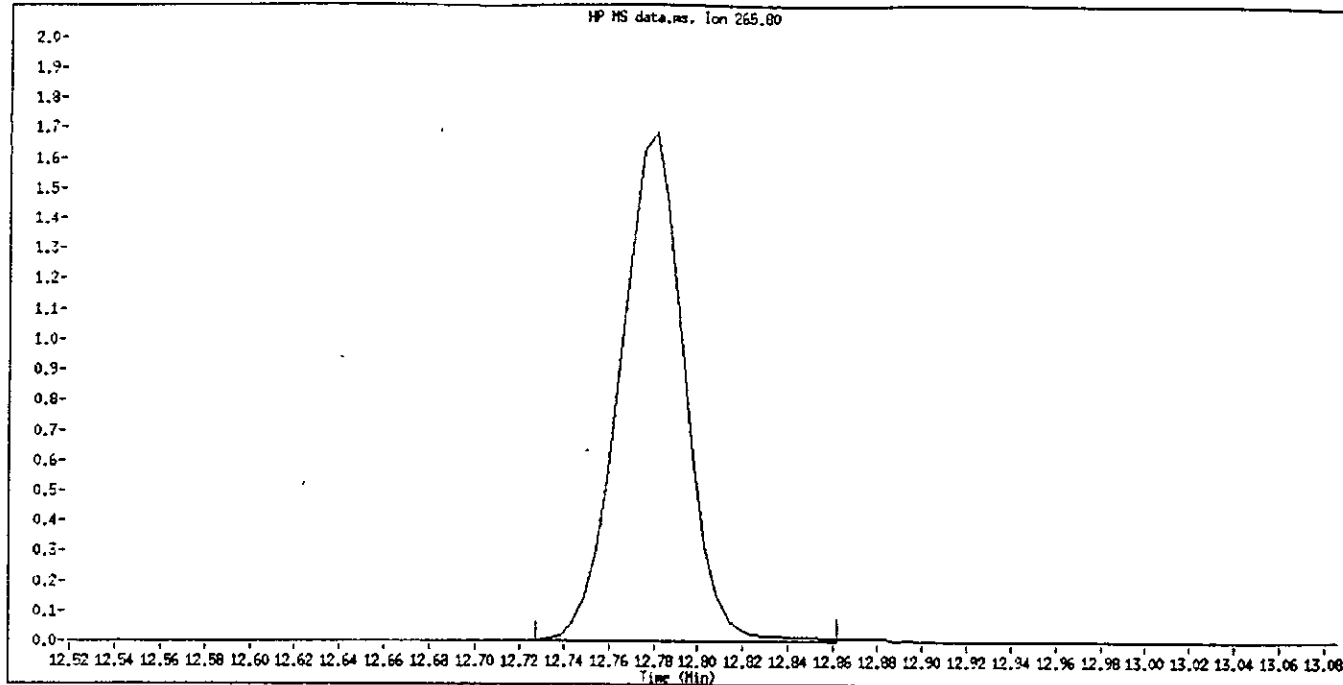
Manual Integration

Manually Integrated By: BachaS

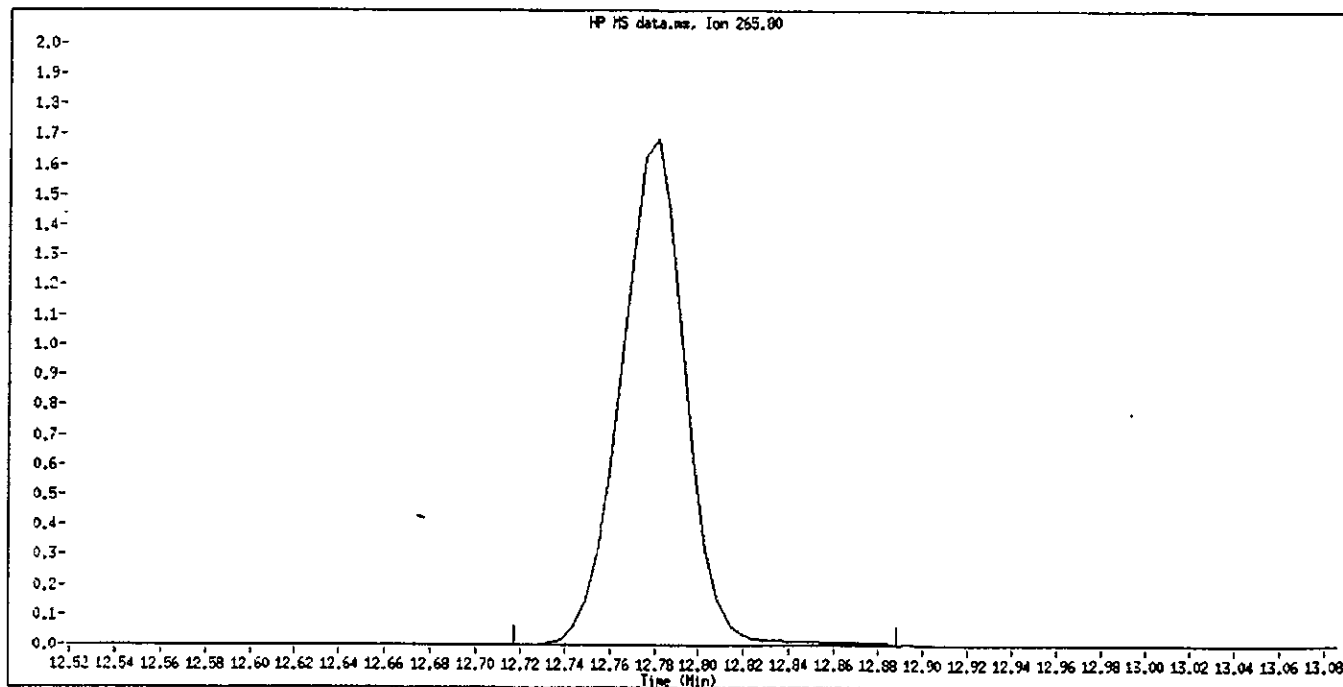
Manual Integration Reason: Poor Chromatography

6721001

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 Instrument ID 71.1
 Client ID SSCD160
 Compound Name Pentachlorophenol
 CAS # 87-86-5
 Report Date 08/29/2000



Original Integration

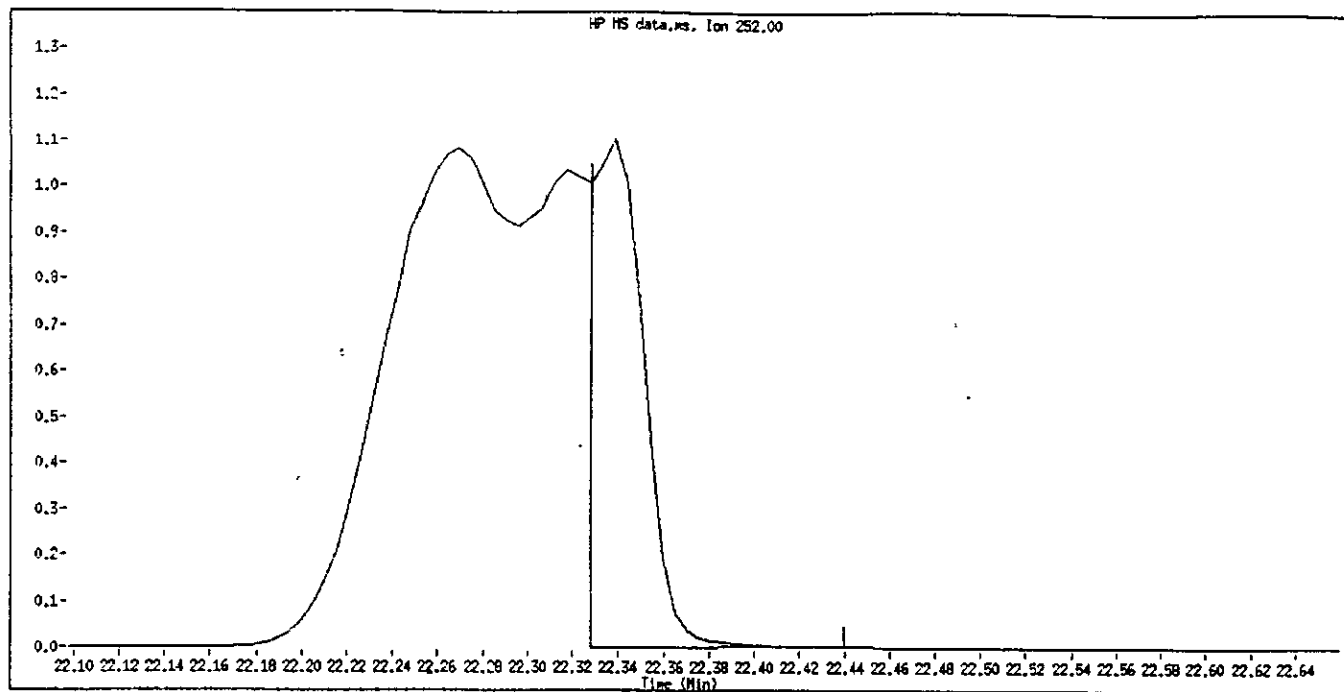


Manual Integration

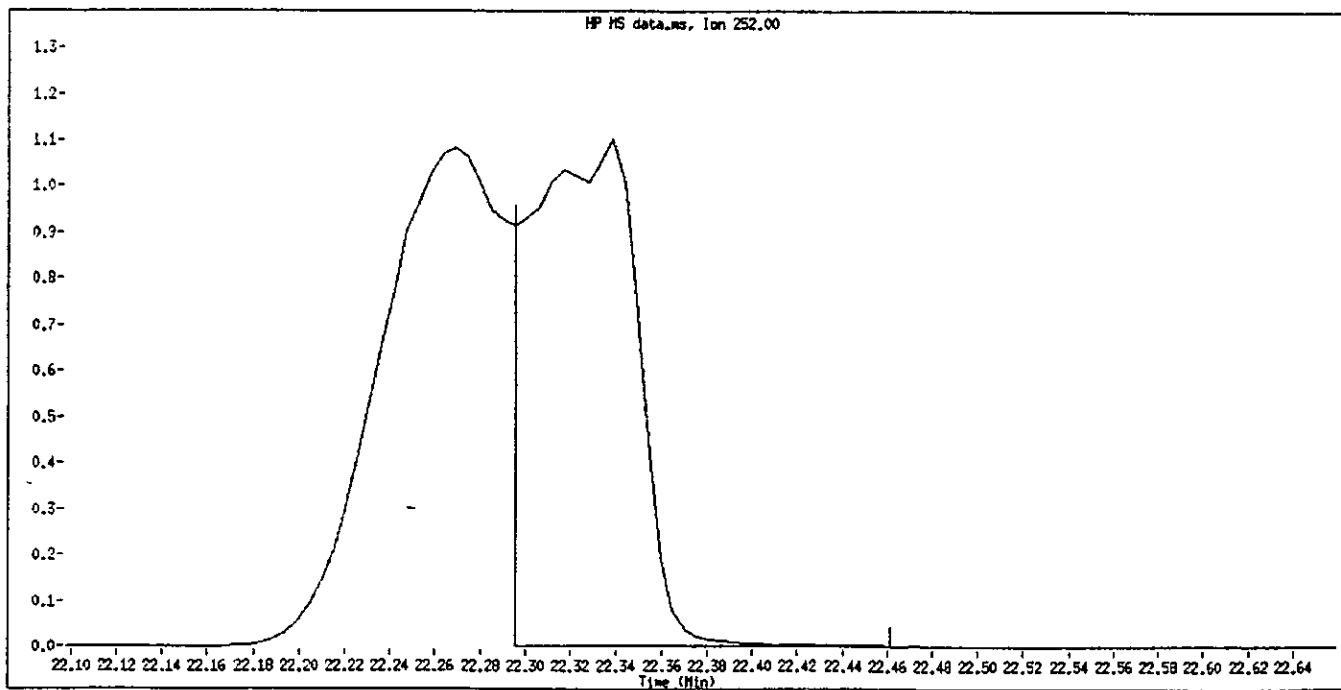
Manually Integrated By: BachaS
 Manual Integration Reason: Poor Chromatography

Data File Name S0830CC5.D
Inj Date and Time 29-AUG-2000 12:23
Instrument ID 71.1
Client ID sstd160
Compound Name Benzo(k)fluoranthene
CAS # 207-08-9
Report Date 08/29/2000

6721002



Original Integration



Manual Integration

Manually Integrated By BachaS
Manual Integration Reason Poor Chromatography

6721003

FORM 7

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0I220208

Instrument ID: 71

Calibration Date: 09/29/00 Time: 0842

Lab File ID: S0929CCC

Init. Calib. Date(s): 08/29/00 08/29/00

Init. Calib. Times: 1008 1223

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.631	1.882	0.01	15.4	20.0
bis(2-Chloroethyl) ether	1.335	1.443	0.01	8.1	50.0
2-Chlorophenol	1.342	1.446	0.01	7.7	50.0
1,3-Dichlorobenzene	1.478	1.611	0.01	9.0	50.0
1,4-Dichlorobenzene	1.490	1.650	0.01	10.7	20.0
1,2-Dichlorobenzene	1.341	1.517	0.01	13.1	50.0
2-Methylphenol	1.171	1.303	0.01	11.3	50.0
2,2'-oxybis(1-Chloropropane)	1.679	1.914	0.01	14.0	50.0
4-Methylphenol	1.156	1.374	0.01	18.8	50.0
Hexachloroethane	0.527	0.580	0.01	10.0	50.0
Nitrobenzene	0.352	0.409	0.01	16.2	50.0
Isophorone	0.589	0.667	0.01	13.2	50.0
2-Nitrophenol	0.197	0.212	0.01	7.6	20.0
2,4-Dimethylphenol	0.312	0.350	0.01	12.2	50.0
bis(2-Chloroethoxy) methane	0.405	0.438	0.01	8.1	50.0
N-Nitroso-di-n-propylamine	0.832	0.980	0.05	17.8	50.0
2,4-Dichlorophenol	0.272	0.303	0.01	11.4	20.0
1,2,4-Trichlorobenzene	0.307	0.325	0.01	5.9	50.0
Naphthalene	1.047	1.152	0.01	10.0	50.0
4-Chloroaniline	0.404	0.432	0.01	6.9	50.0
Hexachlorobutadiene	0.156	0.174	0.01	11.5	20.0
4-Chloro-3-Methylphenol	0.242	0.288	0.01	19.0	20.0
2-Methylnaphthalene	0.655	0.726	0.01	10.8	50.0
Hexachlorocyclopentadiene	0.394	0.389	0.05	1.3	50.0
2,4,6-Trichlorophenol	0.387	0.396	0.01	2.3	20.0
2,4,5-Trichlorophenol	0.395	0.396	0.01	0.2	50.0
2-Chloronaphthalene	1.275	1.305	0.01	2.4	50.0
2-Nitroaniline	0.294	0.345	0.01	17.3	50.0
Dimethylphthalate	1.231	1.310	0.01	6.4	50.0
Acenaphthylene	1.898	1.977	0.01	4.2	50.0
2,6-Dinitrotoluene	0.273	0.286	0.01	4.8	50.0
3-Nitroaniline	0.314	0.333	0.01	6.0	50.0
Acenaphthene	1.193	1.262	0.01	5.8	20.0
2,4-Dinitrophenol	0.126	0.146	0.05	15.9	50.0
4-Nitrophenol	0.110	0.134	0.05	21.8	50.0
Dibenzofuran	1.591	1.722	0.01	8.2	50.0
2,4-Dinitrotoluene	0.321	0.352	0.01	9.6	50.0

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

6721004

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C01220208

Instrument ID: 71

Calibration Date: 09/29/00

Time: 0842

Lab File ID: S0929CCC

Init. Calib. Date(s): 08/29/00

08/29/00

Init. Calib. Times: 1008

1223

GC Column: HP5-MS

ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.109	1.204	0.01	8.6	50.0
4-Chlorophenyl-phenylether	0.577	0.624	0.01	8.1	50.0
Fluorene	1.250	1.349	0.01	7.9	50.0
4-Nitroaniline	0.272	0.291	0.01	7.0	50.0
4,6-Dinitro-2-methylphenol	0.147	0.135	0.01	8.2	50.0
N-Nitrosodiphenylamine (1)	0.669	0.621	0.01	7.2	20.0
4-Bromophenyl-phenylether	0.234	0.241	0.01	3.0	50.0
Hexachlorobenzene	0.247	0.250	0.01	1.2	50.0
Pentachlorophenol	0.130	0.132	0.01	1.5	20.0
Phenanthrene	1.204	1.211	0.01	0.6	50.0
Anthracene	1.232	1.244	0.01	1.0	50.0
Carbazole	1.059	1.038	0.01	2.0	50.0
Di-n-Butylphthalate	1.202	1.218	0.01	1.3	50.0
Fluoranthene	1.032	1.043	0.01	1.1	20.0
Pyrene	1.073	1.334	0.01	24.3	50.0
Butylbenzylphthalate	0.484	0.570	0.01	17.8	50.0
3,3'-Dichlorobenzidine	0.482	0.482	0.01	0.0	50.0
Benzo(a) Anthracene	1.022	1.134	0.01	11.0	50.0
Chrysene	0.996	1.086	0.01	9.0	50.0
bis(2-ethylhexyl) Phthalate	0.692	0.769	0.01	11.1	50.0
Di-n-octylphthalate	1.398	1.288	0.01	7.9	20.0
Benzo(b) fluoranthene	1.347	1.211	0.01	10.1	50.0
Benzo(k) fluoranthene	1.629	1.481	0.01	9.1	50.0
Benzo(a) pyrene	1.299	1.228	0.01	5.5	20.0
Indeno(1,2,3-cd) pyrene	1.981	1.782	0.01	10.0	50.0
Dibenz(a,h) anthracene	1.788	1.561	0.01	12.7	50.0
Benzo(g,h,i) perylene	1.682	1.563	0.01	7.1	50.0
Pyridine	1.190	1.331	0.01	11.8	50.0
N-Nitrosodimethylamine	0.729	0.855	0.01	17.3	50.0
Aniline	1.660	1.808	0.01	8.9	50.0
Benzyl Alcohol	0.912	0.971	0.01	6.5	50.0
Benzoic Acid	0.145	0.210	0.01	44.8	50.0
1-Methylnaphthalene	0.619	0.681	0.01	10.0	50.0
2,3,4,6-Tetrachlorophenol	0.261	0.288	0.01	10.3	50.0
2,3,5,6-Tetrachlorophenol	0.262	0.300	0.01	14.5	50.0
1,2-Diphenylhydrazine	0.973	0.985	0.01	1.2	50.0
Benzidine	0.387	0.395	0.01	2.1	50.0

6721005

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL-PITTSBURGH

Contract:

Lab Code: STLPIT

Case No.:

SAS No.:

SDG No.: C0I220208

Instrument ID: 71

Calibration Date: 09/29/00 Time: 0842

Lab File ID: S0929CCC

Init. Calib. Date(s): 08/29/00 08/29/00

Init. Calib. Times: 1008 1223

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

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Methyl methanesulfonate	0.338	0.301	0.01	10.9	50.0
2-Naphthylamine	0.848	0.875	0.01	3.2	50.0
7,12-dimethylbenz[a]anthracene	0.717	0.608	0.01	15.2	50.0
=====	=====	=====	=====	=====	=====
Nitrobenzene-d5	0.349	0.403	0.01	15.5	50.0
2-Fluorobiphenyl	1.461	1.555	0.01	6.4	50.0
Terphenyl-d14	0.774	0.999	0.01	29.1	50.0
Phenol-d5	1.574	1.744	0.01	10.8	50.0
2-Fluorophenol	1.306	1.398	0.01	7.0	50.0
2,4,6-Tribromophenol	0.120	0.121	0.01	0.8	50.0
2-Chlorophenol-d4	1.222	1.332	0.01	9.0	50.0
1,2-Dichlorobenzene-d4	0.870	0.979	0.01	12.5	50.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: 71.i
Lab File ID: S0929CCC.D
Analysis Type: NONE

Injection Date: 29-SEP-2000 08:42
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s092900.b\8270clp

COMPOUND	EXPECTED CONC.	MEASURED CONC	%D	MAX %D
=====	=====	=====	=====	=====
66 Pyridine	50.0000	55.8922	11.8	50.0
67 N-Nitrosodimethylamine	50.0000	58.6731	17.3	50.0
87 Methyl methanesulfonate	50.0000	44.5268	10.9	50.0
185 2-Fluorophenol	50.0000	53.5224	7.0	50.0
184 Phenol-d5	50.0000	55.4137	10.8	50.0
1 Phenol	50.0000	57.6791	15.4	20.0
68 Aniline	50.0000	54.4506	8.9	50.0
2 bis(2-Chloroethyl)ether	50.0000	54.0327	8.1	50.0
187 2-Chlorophenol-d4	50.0000	54.4950	9.0	50.0
3 2-Chlorophenol	50.0000	53.8417	7.7	50.0
4 1,3-Dichlorobenzene	50.0000	54.4919	9.0	50.0
11 1,4-Dichlorobenzene-d4	40.0000	40.0000	0.0	50.0
5 1,4-Dichlorobenzene	50.0000	55.3768	10.8	20.0
69 Benzyl Alcohol	50.0000	53.1986	6.4	50.0
188 1,2-Dichlorobenzene-d4	50.0000	56.2655	12.5	50.0
6 1,2-Dichlorobenzene	50.0000	56.5636	13.1	50.0
7 2-Methylphenol	50.0000	55.6455	11.3	50.0
8 2,2'-oxybis(1-Chloropropane)	50.0000	56.9838	14.0	50.0
9 4-Methylphenol	50.0000	59.4189	18.8	50.0
18 N-Nitroso-di-n-propylamine	50.0000	58.8651	17.7	50.0
12 Hexachloroethane	50.0000	55.0413	10.1	50.0
181 Nitrobenzene-d5	50.0000	57.7060	15.4	50.0
13 Nitrobenzene	50.0000	58.0292	16.1	50.0
14 Isophorone	50.0000	56.6437	13.3	50.0
15 2-Nitrophenol	50.0000	53.5462	7.1	20.0
16 2,4-Dimethylphenol	50.0000	56.0219	12.0	50.0
17 bis(2-Chloroethoxy)methane	50.0000	54.0039	8.0	50.0
71 Benzoic Acid	50.0000	72.1888	44.4	50.0
18 2,4-Dichlorophenol	50.0000	55.5476	11.1	20.0
19 1,2,4-Trichlorobenzene	50.0000	52.9425	5.9	50.0
32 Naphthalene-d8	40.0000	40.0000	0.0	50.0
20 Naphthalene	50.0000	55.0329	10.1	50.0
21 4-Chloroaniline	50.0000	53.4163	6.8	50.0
22 Hexachlorobutadiene	50.0000	55.8730	11.7	20.0
23 4-Chloro-3-Methylphenol	50.0000	59.3255	18.7	20.0
24 2-Methylnaphthalene	50.0000	55.4883	11.0	50.0
72 1-Methylnaphthalene	50.0000	55.0439	10.1	50.0
25 Hexachlorocyclopentadiene	50.0000	49.3141	1.4	50.0
26 2,4,6-Trichlorophenol	50.0000	51.1326	2.3	20.0

6721007

Data File: \\QPITPA02\D\chem\71.i\s092900.b/S0929CCC.D
Report Date: 09/29/2000CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORTInstrument ID: 71.i
Lab File ID: S0929CCC.D
Analysis Type: NONEInjection Date: 29-SEP-2000 08:42
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s092900.b\

COMPOUND	EXPECTED CONC	MEASURED CONC.	%D	MAX %D
27 2,4,5-Trichlorophenol	50.0000	50.1281	0.3	50.0
182 2-Fluorobiphenyl	50.0000	53.2078	6.4	50.0
28 2-Chloronaphthalene	50.0000	51.1794	2.4	50.0
29 2-Nitroaniline	50.0000	58.6964	17.4	50.0
30 Dimethylphthalate	50.0000	53.2221	6.4	50.0
31 Acenaphthylene	50.0000	52.0767	4.2	50.0
32 2,6-Dinitrotoluene	50.0000	52.3725	4.7	50.0
33 3-Nitroaniline	50.0000	52.9530	5.9	50.0
52 Acenaphthene-d10	40.0000	40.0000	0.0	50.0
34 Acenaphthene	50.0000	52.8658	5.7	20.0
35 2,4-Dinitrophenol	50.0000	57.6598	15.3	50.0
36 4-Nitrophenol	50.0000	60.8566	21.7	50.0
37 Dibenzofuran	50.0000	54.1153	8.2	50.0
38 2,4-Dinitrotoluene	50.0000	54.9519	9.9	50.0
77 2,3,5,6-Tetrachlorophenol	50.0000	57.3832	14.8	50.0
114 2-Naphthylamine	50.0000	51.5515	3.1	50.0
76 2,3,4,6-Tetrachlorophenol	50.0000	55.2429	10.5	50.0
39 Diethylphthalate	50.0000	54.2853	8.6	50.0
41 Fluorene	50.0000	53.9649	7.9	50.0
40 4-Chlorophenyl-phenylether	50.0000	54.0832	8.2	50.0
42 4-Nitroaniline	50.0000	53.4924	7.0	50.0
43 4,6-Dinitro-2-methylphenol	50.0000	45.9685	8.1	50.0
44 N-Nitrosodiphenylamine (1)	50.0000	46.4462	7.1	20.0
78 1,2-Diphenylhydrazine	50.0000	50.6201	1.2	50.0
186 2,4,6-Tribromophenol	50.0000	50.5694	1.1	50.0
45 4-Bromophenyl-phenylether	50.0000	51.3645	2.7	50.0
46 Hexachlorobenzene	50.0000	50.6035	1.2	50.0
47 Pentachlorophenol	50.0000	50.9396	1.9	20.0
78 Phenanthrene-d10	40.0000	40.0000	0.0	50.0
48 Phenanthrene	50.0000	50.2619	0.5	50.0
49 Anthracene	50.0000	50.4856	1.0	50.0
50 Carbazole	50.0000	48.9812	2.0	50.0
51 Di-n-Butylphthalate	50.0000	50.6610	1.3	50.0
52 Fluoranthene	50.0000	50.5178	1.0	20.0
79 Benzidine	50.0000	51.1280	2.3	50.0
53 Pyrene	50.0000	62.1782	24.4	50.0
183 Terphenyl-d14	50.0000	64.5372	29.1	50.0
54 Butylbenzylphthalate	50.0000	58.9628	17.9	50.0
56 Benzo(a)Anthracene	50.0000	55.4630	10.9	50.0

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

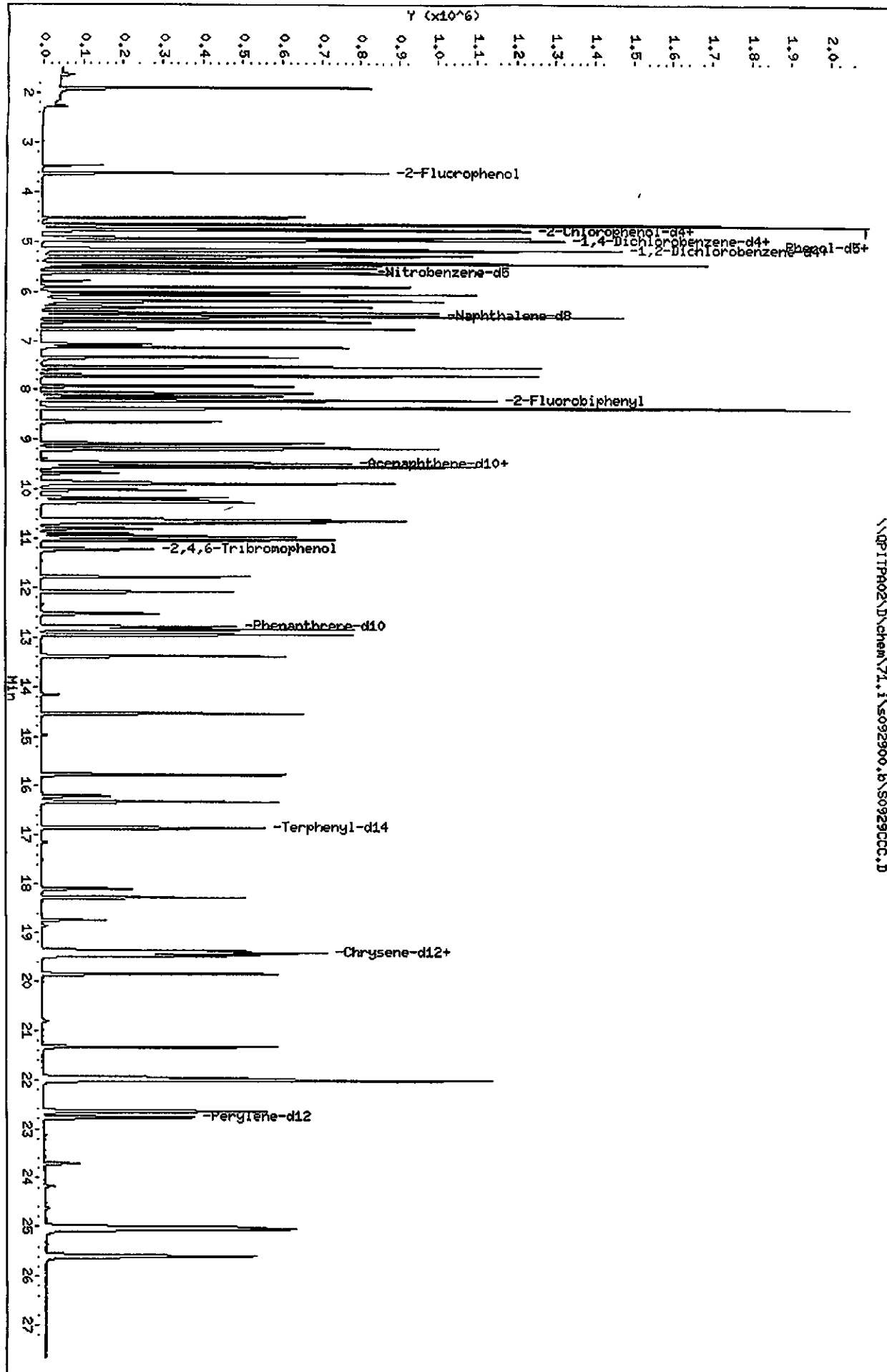
Instrument ID: 71.i
Lab File ID: S0929CCC.D
Analysis Type: NONE

Injection Date: 29-SEP-2000 08:42
Lab Sample ID: sstd50
Method File: \\QPITPA02\D\chem\71.i\s092900.b\

COMPOUND	EXPECTED CONC.	MEASURED CONC	%D	MAX %D
=====	=====	=====	=====	=====
90 Chrysene-d12	40.0000	40.0000	0.0	50.0
55 3,3'-Dichlorobenzidine	50.0000	49.9928	0.0	50.0
57 Chrysene	50.0000	54.4999	9.0	50.0
58 bis(2-ethylhexyl)Phthalate	50.0000	55.5882	11.2	50.0
59 Di-n-octylphthalate	50.0000	46.0888	7.8	20.0
60 Benzo(b)fluoranthene	50.0000	44.9577	10.1	50.0
61 Benzo(k)fluoranthene	50.0000	45.4553	9.1	50.0
143 7,12-dimethylbenz(a)anthracen	50.0000	42.4562	15.1	50.0
62 Benzo(a)pyrene	50.0000	47.2945	5.4	20.0
101 Perylene-d12	40.0000	40.0000	0.0	50.0
63 Indeno(1,2,3-cd)pyrene	50.0000	44.9757	10.0	50.0
64 Dibenz(a,h)anthracene	50.0000	43.6361	12.7	50.0
65 Benzo(g,h,i)perylene	50.0000	46.4523	7.1	50.0

Data File: \\QPITPA02\J\chem\71.1\5092900.b\5092900.D
Date: 29-SEP-2000 08:42
Client ID: sstd00
Sample Info: sstd00(25 ug/ml) 77-01-2 8270/cip
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s092900.b\S0929CCC.D
Lab Smp Id: sstd50 Client Smp ID: sstd50
Inj Date : 29-SEP-2000 08:42
Operator : 045183 Inst ID: 71.i
Smp Info : sstd50(25 ug/ml) 77-01-2 8270/clp
Misc Info : sstd50,s092900.b,8270clp.m,1-82701.sub,2,2
Comment :
Method : \\QPITPA02\D\chem\71.i\s092900.b\8270clp.m
Meth Date : 29-Sep-2000 09:26 bachas Quant Type: ISTD
Cal Date : 29-AUG-2000 10:08 Cal File: S0830CC2.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-82701.sub
Target Version: 4.04
Processing Host: PITPC050

Rg/24/w

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ng)	ON-COL (ng)
*****	----	--	-----	-----	-----	-----	-----
* 1 1,4-Dichlorobenzene-d4	152	4.966	4.966	(1.000)	187768	40.0000	
* 2 Naphthalene-d8	136	6.483	6.483	(1.000)	684103	40.0000	
* 3 Acenaphthene-d10	164	9.496	9.496	(1.000)	326887	40.0000	
* 4 Phenanthrene-d10	188	12.787	12.787	(1.000)	441990	40.0000	
* 5 Chrysene-d12	240	19.411	19.411	(1.000)	351038	40.0000	
* 6 Perylene-d12	264	22.777	22.777	(1.000)	360291	40.0000	
13 N-Nitrosodimethylamine	74	1.900	1.900	(0.383)	200643	50.0000	58.673
10 Pyridine	79	1.894	1.894	(0.382)	312340	50.0000	55.892 (M)
19 Methyl methanesulfonate	80	3.476	3.476	(0.700)	70568	50.0000	44.527
22 Aniline	93	4.667	4.667	(0.940)	424321	50.0000	54.451
23 Phenol	94	4.667	4.667	(0.940)	441679	50.0000	57.679
24 bis(2-Chloroethyl)ether	93	4.736	4.736	(0.954)	338607	50.0000	54.033
25 2-Chlorophenol	128	4.779	4.779	(0.962)	339313	50.0000	53.842
27 1,3-Dichlorobenzene	146	4.923	4.923	(0.991)	378123	50.0000	54.492
28 1,4-Dichlorobenzene	146	4.982	4.982	(1.003)	387189	50.0000	55.377
29 1,2-Dichlorobenzene	146	5.185	5.185	(1.044)	356077	50.0000	56.564
30 Benzyl Alcohol	108	5.142	5.142	(1.035)	227814	50.0000	53.199 (M)
31 2-Methylphenol	108	5.297	5.297	(1.067)	305872	50.0000	55.646
32 2,2'-oxybis(1-Chloropropane)	45	5.319	5.319	(1.071)	449187	50.0000	56.984
33 N-Nitroso-di-n-propylamine	70	5.474	5.474	(1.102)	230050	50.0000	58.865
35 4-Methylphenol	108	5.452	5.452	(1.098)	322481	50.0000	59.419
38 Hexachloroethane	117	5.527	5.527	(1.113)	136120	50.0000	55.041
39 Nitrobenzene	77	5.634	5.634	(0.869)	349912	50.0000	58.029
44 Isophorone	82	5.912	5.912	(0.912)	570424	50.0000	56.644
45 2-Nitrophenol	139	6.018	6.018	(0.928)	180907	50.0000	53.546
46 2,4-Dimethylphenol	107	6.072	6.072	(0.937)	299426	50.0000	56.022

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====		=====	=====
47 bis (2-Chloroethoxy)methane	93	6.195	6.195	(0.956)	374264		50.0000	54.004
51 2,4-Dichlorophenol	162	6.318	6.318	(0.974)	258962		50.0000	55.548
52 Benzoic Acid	122	6.221	6.221	(0.960)	179153		50.0000	72.189
53 1,2,4-Trichlorobenzene	180	6.430	6.430	(0.992)	277897		50.0000	52.942
54 Naphthalene	128	6.510	6.510	(1.004)	985206		50.0000	55.033
55 4-Chloroaniline	127	6.611	6.611	(1.020)	369710		50.0000	53.416
59 Hexachlorobutadiene	225	6.761	6.761	(1.043)	149111		50.0000	55.873
62 4-Chloro-3-Methylphenol	107	7.338	7.338	(1.132)	246114		50.0000	59.326
65 2-Methylnaphthalene	142	7.541	7.541	(1.163)	621226		50.0000	55.488
66 1-Methylnaphthalene	142	7.717	7.717	(1.190)	582627		50.0000	55.044
67 Hexachlorocyclopentadiene	237	7.926	7.926	(0.835)	158873		50.0000	49.314
69 2,4,6-Trichlorophenol	196	8.070	8.070	(0.850)	161621		50.0000	51.132
70 2,4,5-Trichlorophenol	196	8.139	8.139	(0.857)	161886		50.0000	50.128
73 2-Chloronaphthalene	162	8.380	8.380	(0.882)	533431		50.0000	51.179
77 2-Nitroaniline	65	8.641	8.641	(0.910)	140872		50.0000	58.696
80 Dimethylphthalate	163	9.085	9.085	(0.957)	535243		50.0000	53.222
82 2,6-Dinitrotoluene	165	9.208	9.208	(0.970)	116979		50.0000	52.372
83 Acenaphthylene	152	9.181	9.181	(0.967)	807919		50.0000	52.077
85 3-Nitroaniline	138	9.470	9.470	(0.997)	136041		50.0000	52.953
86 Acenaphthene	153	9.560	9.560	(1.007)	515522		50.0000	52.866
87 2,4-Dinitrophenol	184	9.683	9.683	(1.020)	59555		50.0000	57.660
89 4-Nitrophenol	109	9.859	9.859	(1.038)	54697		50.0000	60.857
90 Dibenzofuran	168	9.892	9.892	(1.042)	703438		50.0000	54.115
91 2,4-Dinitrotoluene	165	10.020	10.020	(1.055)	144057		50.0000	54.952
95 2,3,5,6-Tetrachlorophenol	232	10.169	10.169	(1.071)	122695		50.0000	57.383
92 2,3,4,6-Tetrachlorophenol	232	10.271	10.271	(1.082)	117824		50.0000	55.243
96 2-Naphthylamine	143	10.239	10.239	(1.078)	357381		50.0000	51.552
97 Diethylphthalate	149	10.607	10.607	(1.117)	492098		50.0000	54.285
98 Fluorene	166	10.639	10.639	(1.120)	551255		50.0000	53.965
99 4-Chlorophenyl-phenylether	204	10.682	10.682	(1.125)	255187		50.0000	54.083
100 4-Nitroaniline	138	10.800	10.800	(1.137)	119084		50.0000	53.492
102 4,6-Dinitro-2-methylphenol	198	10.901	10.901	(0.853)	74498		50.0000	45.968
103 N-Nitrosodiphenylamine (1)	169	10.971	10.971	(0.858)	343110		50.0000	46.446
104 1,2-Diphenylhydrazine	77	11.029	11.029	(0.863)	544393		50.0000	50.620
112 4-Bromophenyl-phenylether	248	11.788	11.788	(0.922)	133153		50.0000	51.364
113 Hexachlorobenzene	284	12.087	12.087	(0.945)	138293		50.0000	50.604
117 Pentachlorophenol	266	12.525	12.525	(0.980)	73007		50.0000	50.940
122 Phenanthrene	178	12.840	12.840	(1.004)	668885		50.0000	50.262
123 Anthracene	178	12.947	12.947	(1.013)	687284		50.0000	50.486
126 Carbazole	167	13.391	13.391	(1.047)	573426		50.0000	48.981
130 Di-n-Butylphthalate	149	14.539	14.539	(1.137)	673181		50.0000	50.661
135 Fluoranthene	202	15.773	15.773	(1.234)	576150		50.0000	50.518
136 Benzdine	184	16.206	16.206	(0.835)	173483		50.0000	51.128
137 Pyrene	202	16.313	16.313	(0.840)	585465		50.0000	62.178
144 Butylbenzylphthalate	149	18.273	18.273	(0.941)	250320		50.0000	58.963
149 3,3'-Dichlorobenzidine	252	19.427	19.427	(1.001)	211428		50.0000	49.993
150 Benzo(a)Anthracene	228	19.374	19.374	(0.998)	497487		50.0000	55.463

Data File: \\QPITPA02\D\chem\71.i\s092900.b\S0929CCC.D
 Report Date: 29-Sep-2000 09:30

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
151 Chrysene	228	19.475	19.475	(1.003)	476673	50.0000	54.500
153 bis(2-ethylhexyl)Phthalate	149	19.855	19.855	(1.023)	337630	50.0000	55.588
155 Di-n-octylphthalate	149	21.318	21.318	(0.936)	580265	50.0000	46.089
157 Benzo(b)fluoranthene	252	21.954	21.954	(0.964)	545523	50.0000	44.958
158 Benzo(k)fluoranthene	252	22.013	22.013	(0.966)	666902	50.0000	45.455
159 7,12-dimethylbenz[a]anthracen	256	22.018	22.018	(0.967)	274048	50.0000	42.456
167 Benzo(a)pyrene	252	22.649	22.649	(0.994)	553289	50.0000	47.294
169 Indeno(1,2,3-cd)pyrene	276	25.010	25.010	(1.098)	802515	50.0000	44.976
170 Dibenz(a,h)anthracene	278	25.058	25.058	(1.100)	703015	50.0000	43.636
171 Benzo(g,h,i)perylene	276	25.587	25.587	(1.123)	703749	50.0000	46.452
\$ 172 Nitrobenzene-d5	82	5.612	5.612	(0.866)	344994	50.0000	57.706
\$ 173 2-Fluorobiphenyl	172	8.214	8.214	(0.865)	635269	50.0000	53.208
\$ 174 Terphenyl-d14	244	16.858	16.858	(0.868)	438253	50.0000	64.537
\$ 175 Phenol-d5	99	4.656	4.656	(0.938)	409436	50.0000	55.414
\$ 176 2-Fluorophenol	112	3.636	3.636	(0.732)	328187	50.0000	53.522
\$ 177 2,4,6-Tribromophenol	330	11.227	11.227	(0.878)	67061	50.0000	50.569
\$ 178 2-Chlorophenol-d4	132	4.763	4.763	(0.959)	312734	50.0000	54.495
\$ 179 1,2-Dichlorobenzene-d4	152	5.169	5.169	(1.041)	229867	50.0000	56.266

QC Flag Legend

M - Compound response manually integrated.

6721013

Data File Name S0929CCC D

Inj. Date and Time 29-SEP-2000 08:42

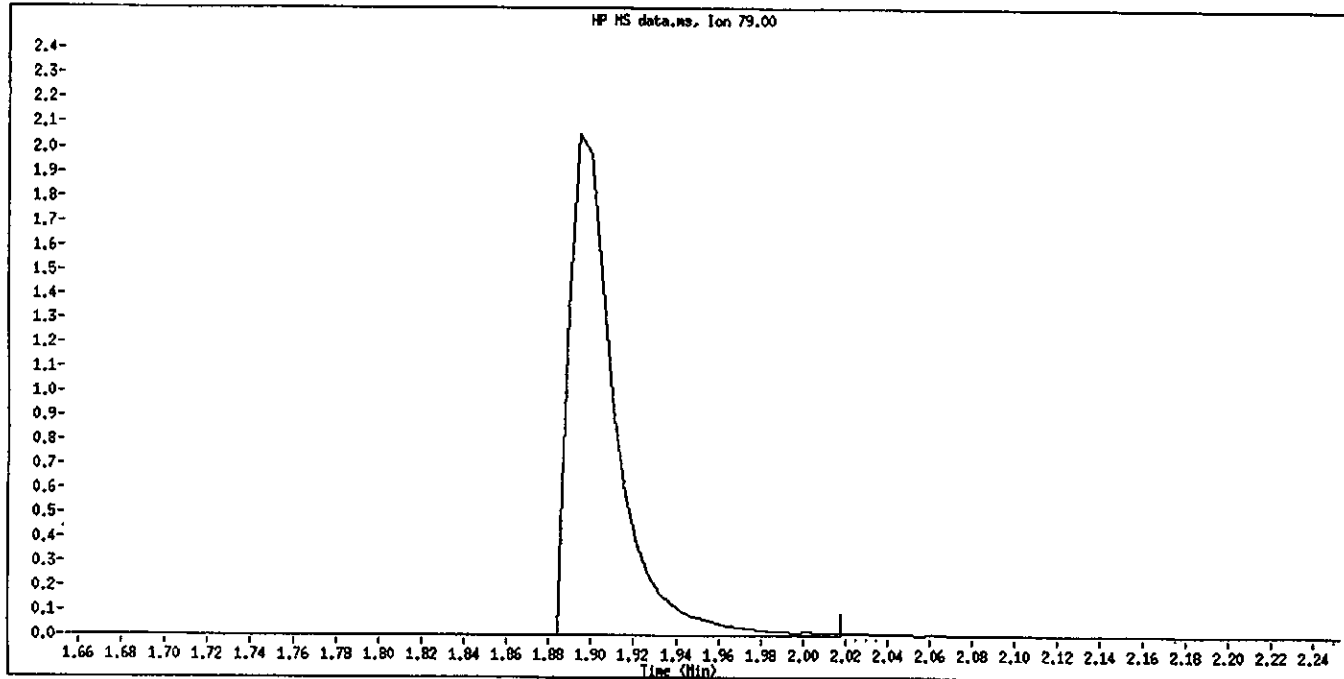
Instrument ID: 71.i

Client ID: sstd50

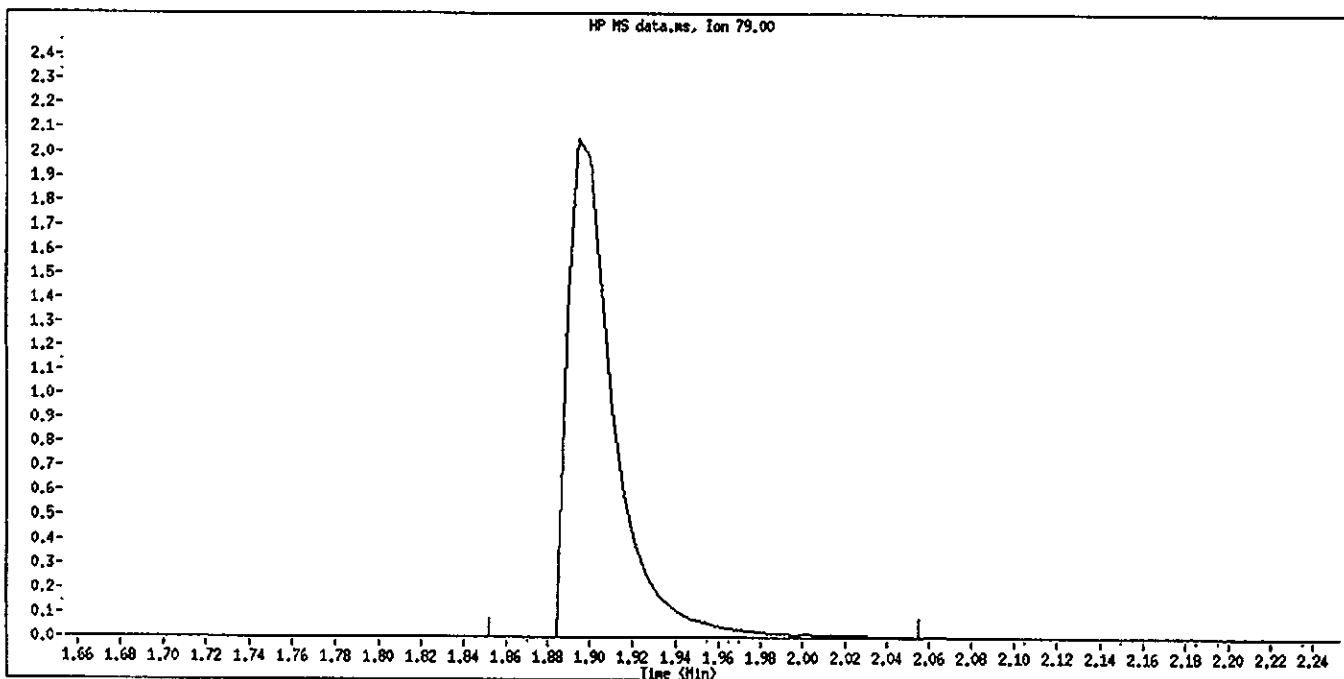
Compound Name: Pyridine

CAS #: 110-86-1

Report Date: 09/29/2000



Original Integration



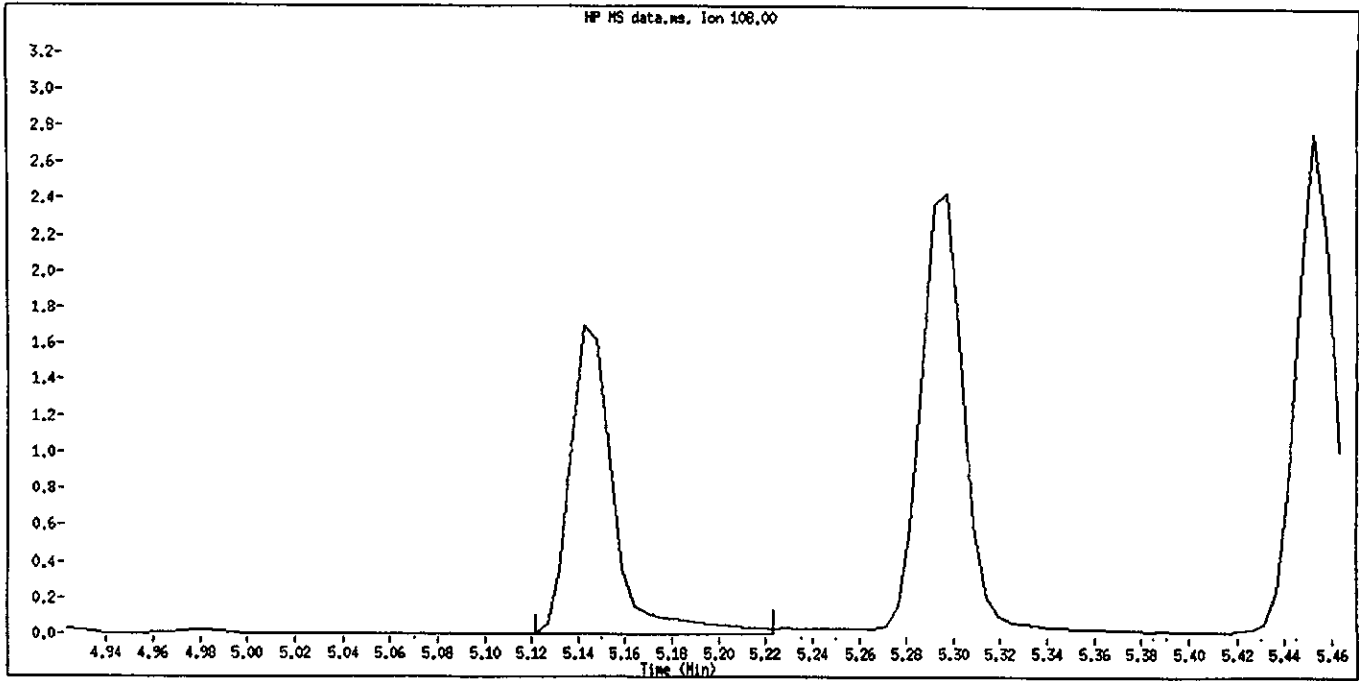
Manual Integration

Manually Integrated By: BachaS

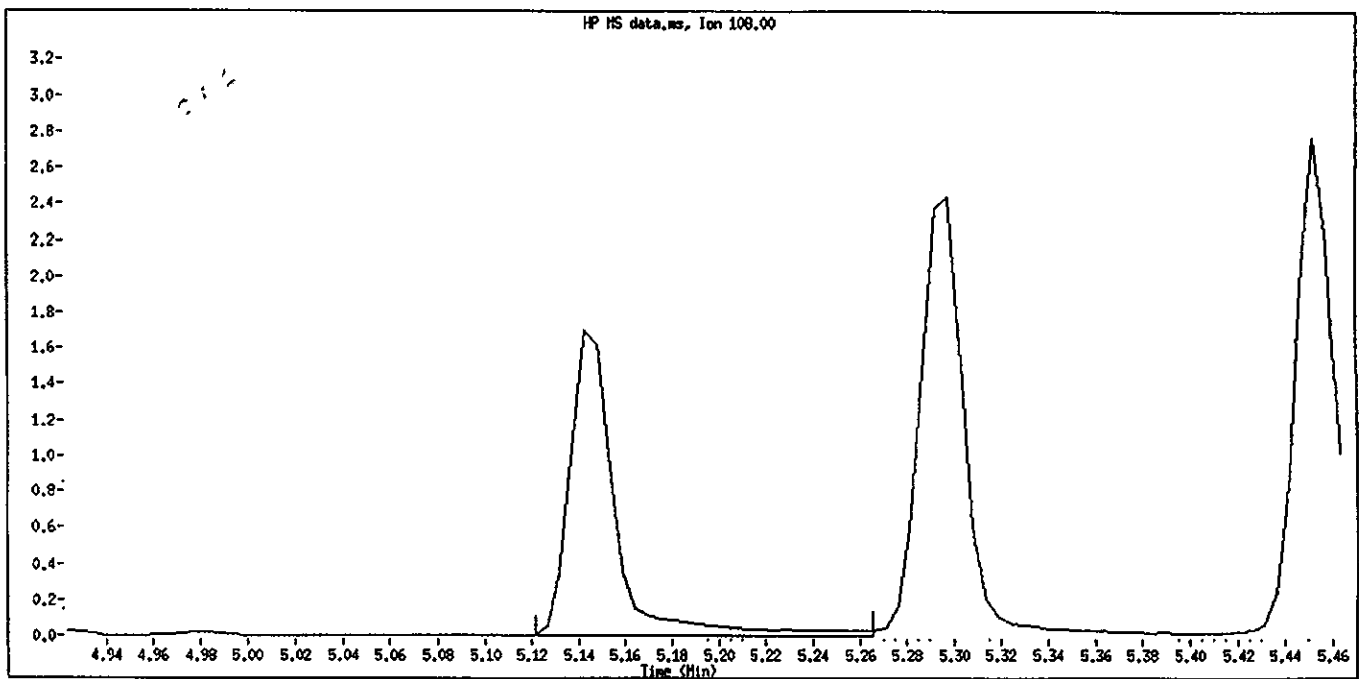
Manual Integration Reason: Poor Chromatography

Data File Name S0929CCC D
Inj. Date and Time. 29-SEP-2000 08:42
Instrument ID: 71.1
Client ID: sstd50
Compound Name Benzyl Alcohol
CAS #: 100-51-6
Report Date. 09/29/2000

6721014



Original Integration



Manual Integration

Manually Integrated By: BachaS
Manual Integration Reason: Poor Chromatography

6721015

**GC/MS SEMIVOLATILE
QC DATA**

Date : 29-AUG-2000 09:52

Client ID: DFTPP02

Instrument: 71.1

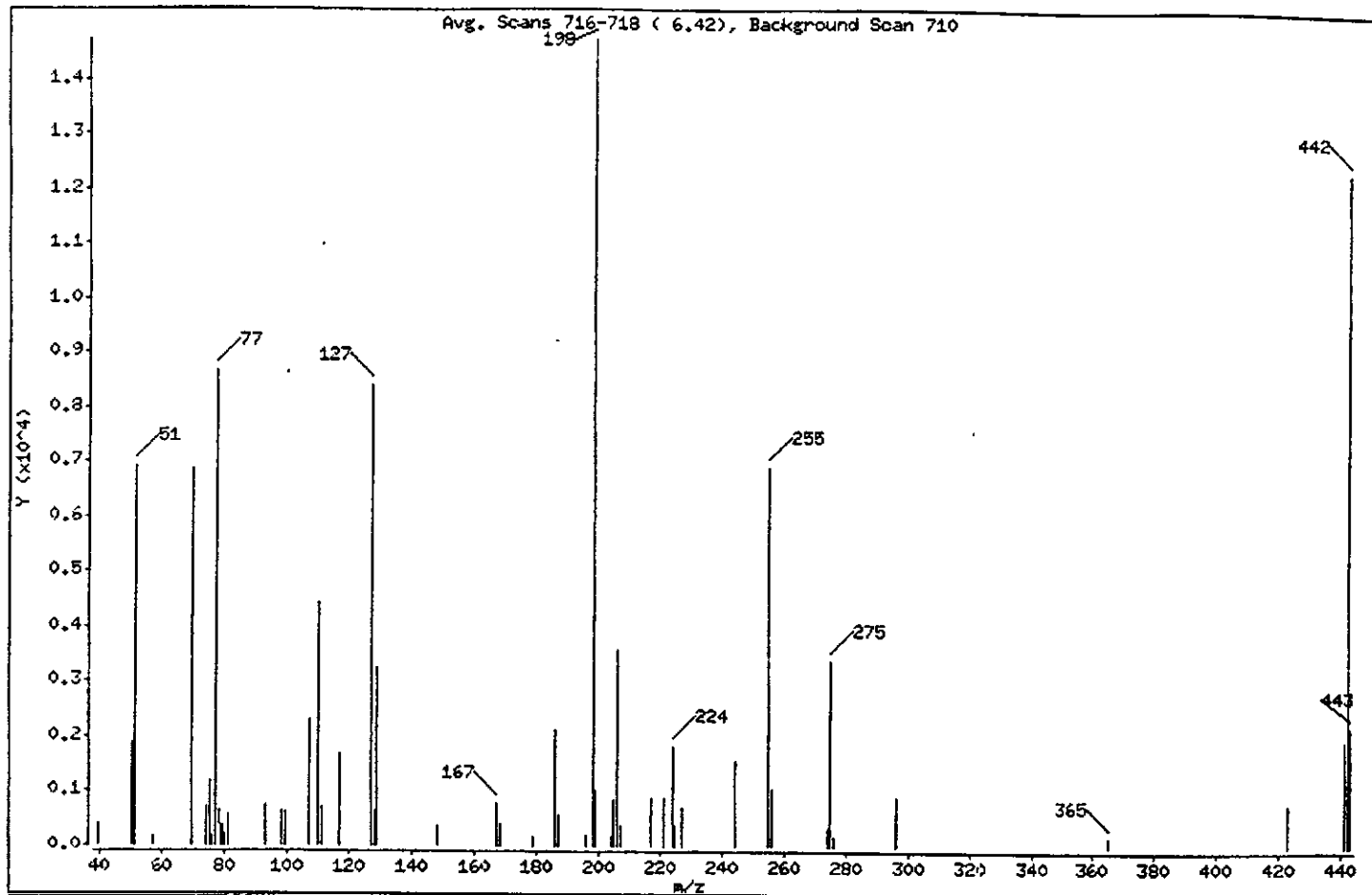
Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	46.91
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.57
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	56.97
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.89
275	10.00 - 30.00% of mass 198	22.97
365	Greater than 1.00% of mass 198	1.22
441	Present, but less than mass 443	13.24
442	Greater than 40.00% of mass 198	83.57
443	17.00 - 23.00% of mass 442	14.92 (17.85)

Date : 29-AUG-2009 09:52

Client ID: DFTPP02

Instrument: 71.1

Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:

Column diameter: 2.00

Data File: S0829DF1.D

Spectrum: Avg. Scans 716-718 (6.42), Background Scan 710

Location of Maximum: 198.00

Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	393	93.00	746	186.00	2125	244.00	1568
44.00	9	98.00	630	187.00	580	255.00	6923
50.00	1891	99.00	626	196.00	191	256.00	1061
51.00	6910	107.00	2297	198.00	14731	274.00	349
57.00	168	110.00	4433	199.00	1015	275.00	3383
69.00	6860	111.00	705	204.00	179	276.00	170
74.00	698	117.00	1705	205.00	841	296.00	903
75.00	1185	127.00	8392	206.00	3575	368.00	179
76.00	184	128.00	640	207.00	387	423.00	767
77.00	8657	129.00	3258	217.00	894	441.00	1951
78.00	637	148.00	376	221.00	865	442.00	12311
79.00	360	167.00	770	224.00	1821	443.00	2198
80.00	196	168.00	408	225.00	372		
81.00	572	179.00	177	227.00	700		

Data File: \\QP1TP002\chem\71.1\5082900.b\50829DF1.D
Date: 29-AUG-2000 09:52
Client ID: DFTPP02
Sample Info: DFTPP050 (25ppb) 194-158-6

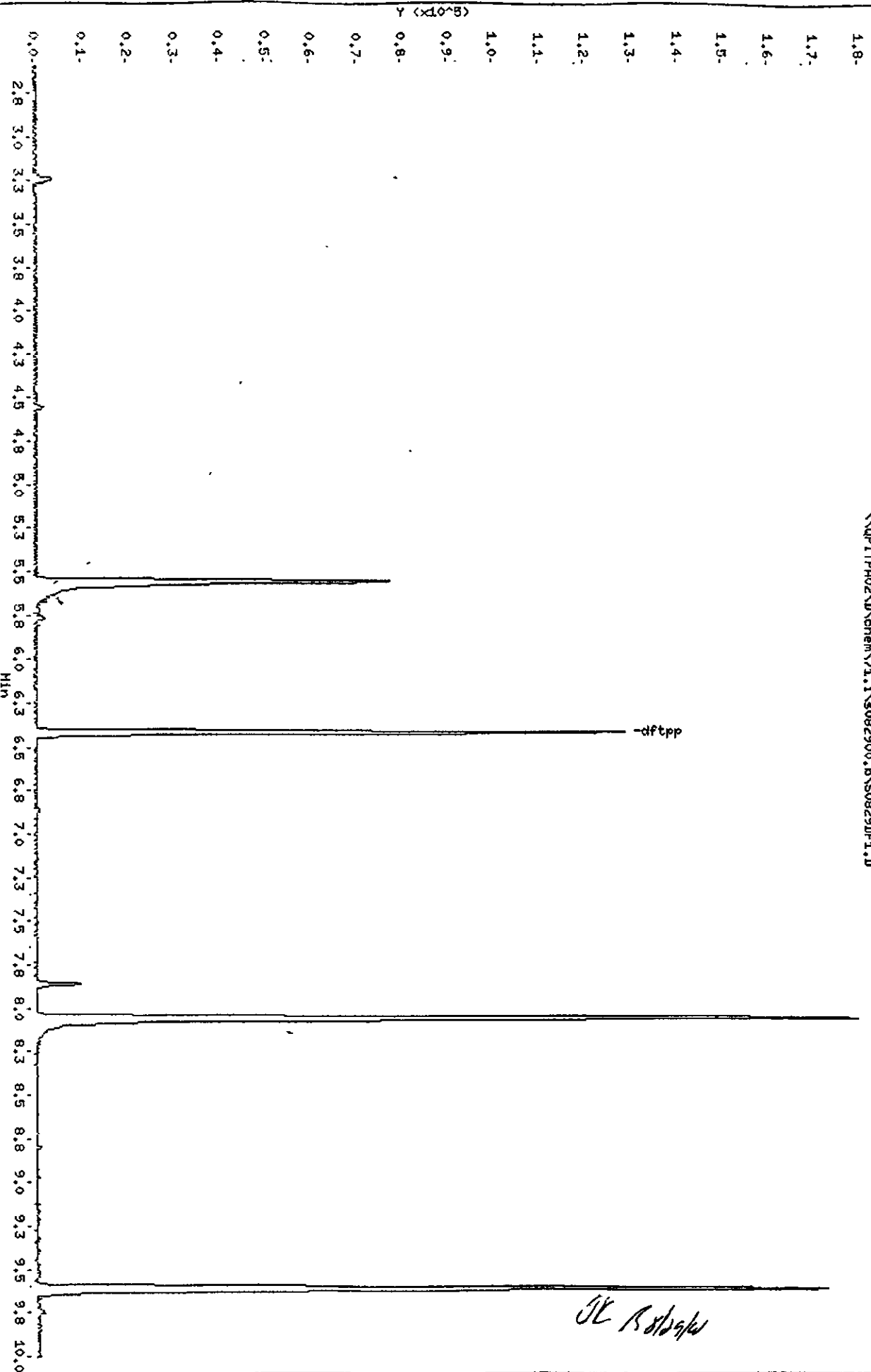
Instrument: 71.1

Operator: 045183

Column diameter: 2.00

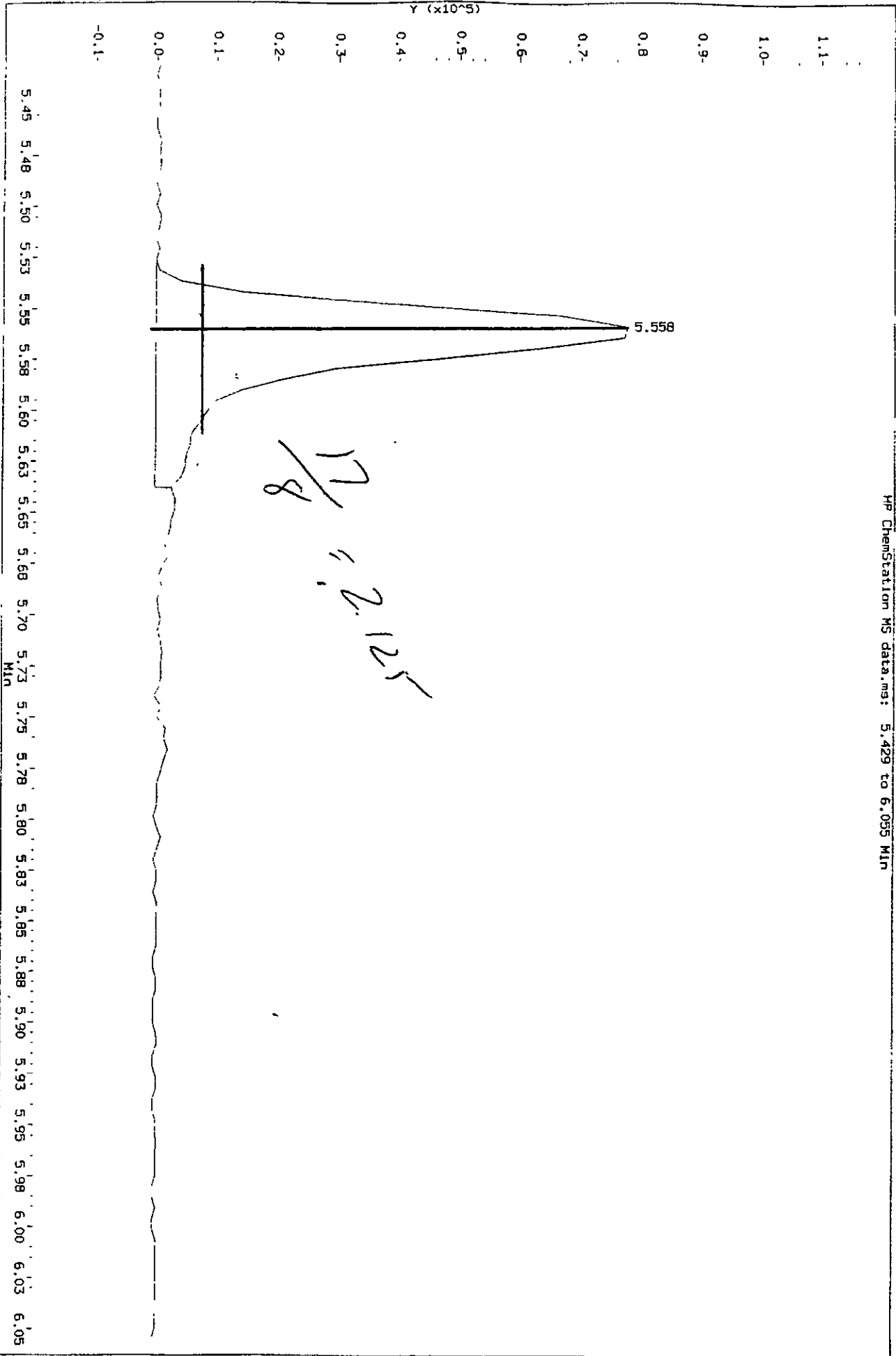
Column phase:

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Data file: \\DPTTPA02\B\chem\71.1\5082900.b\50829DF1.D
Injection Date: 29-AUG-2000 09:52
Instrument: 71.1
Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 5.429 to 6.055 Min

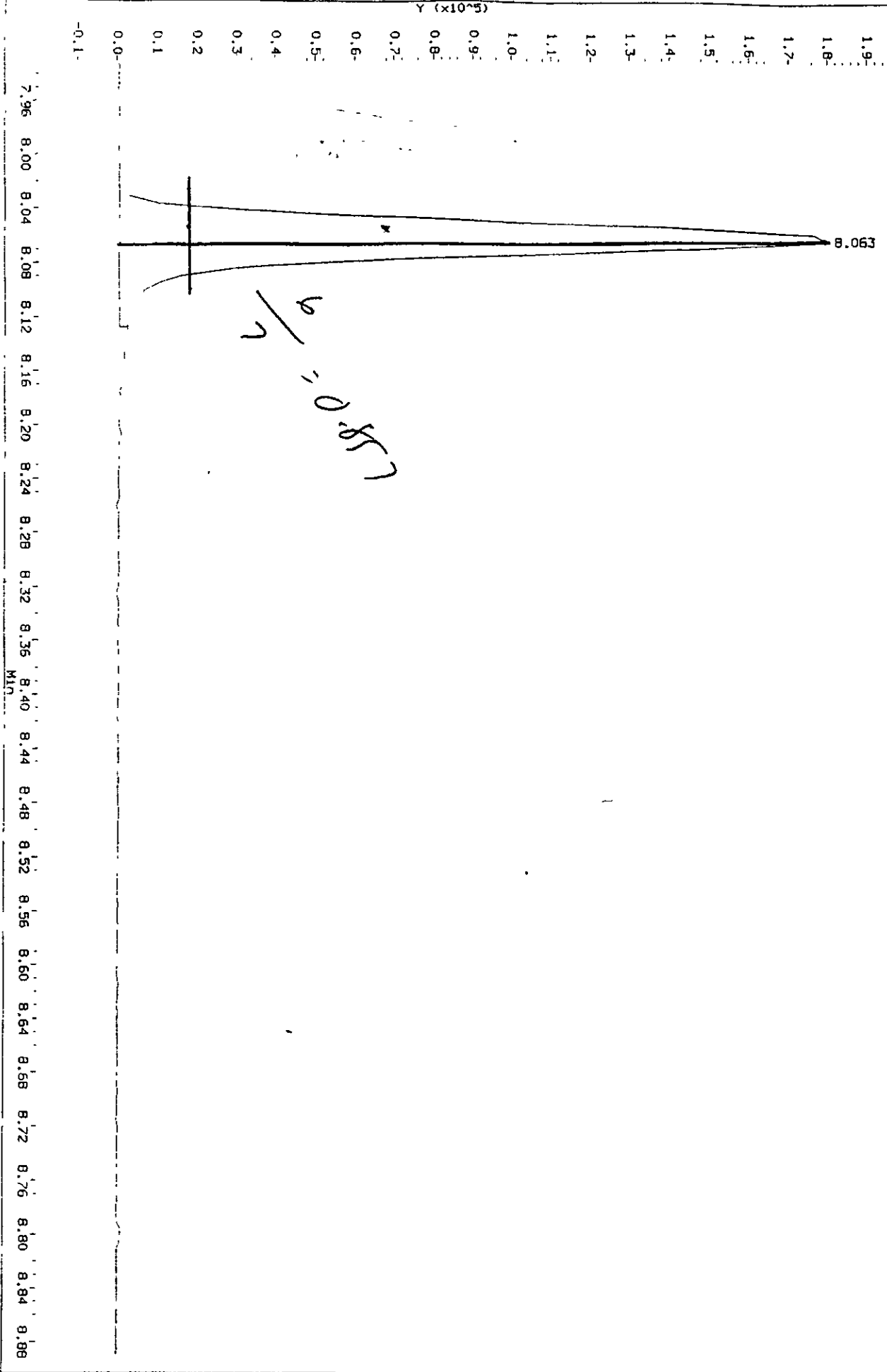


6101219

6721020

Data File: \NPIPP02\ND\chem\71.1\5082900.b\50829001.D
 Injection Date: 29-AUG-2000 09:52
 Instrument: 71.1
 Client Sample ID: DFTPP02

HP ChemStation MS data.ms: 7.931 to 8.891 Min



6721021

Data File: \\QPITPA02\D\chem\71.1\s092900.b\S0929DF2.D

Page 3

Date : 29-SEP-2000 08:25

Client ID: DFTPP02

Instrument: 71.1

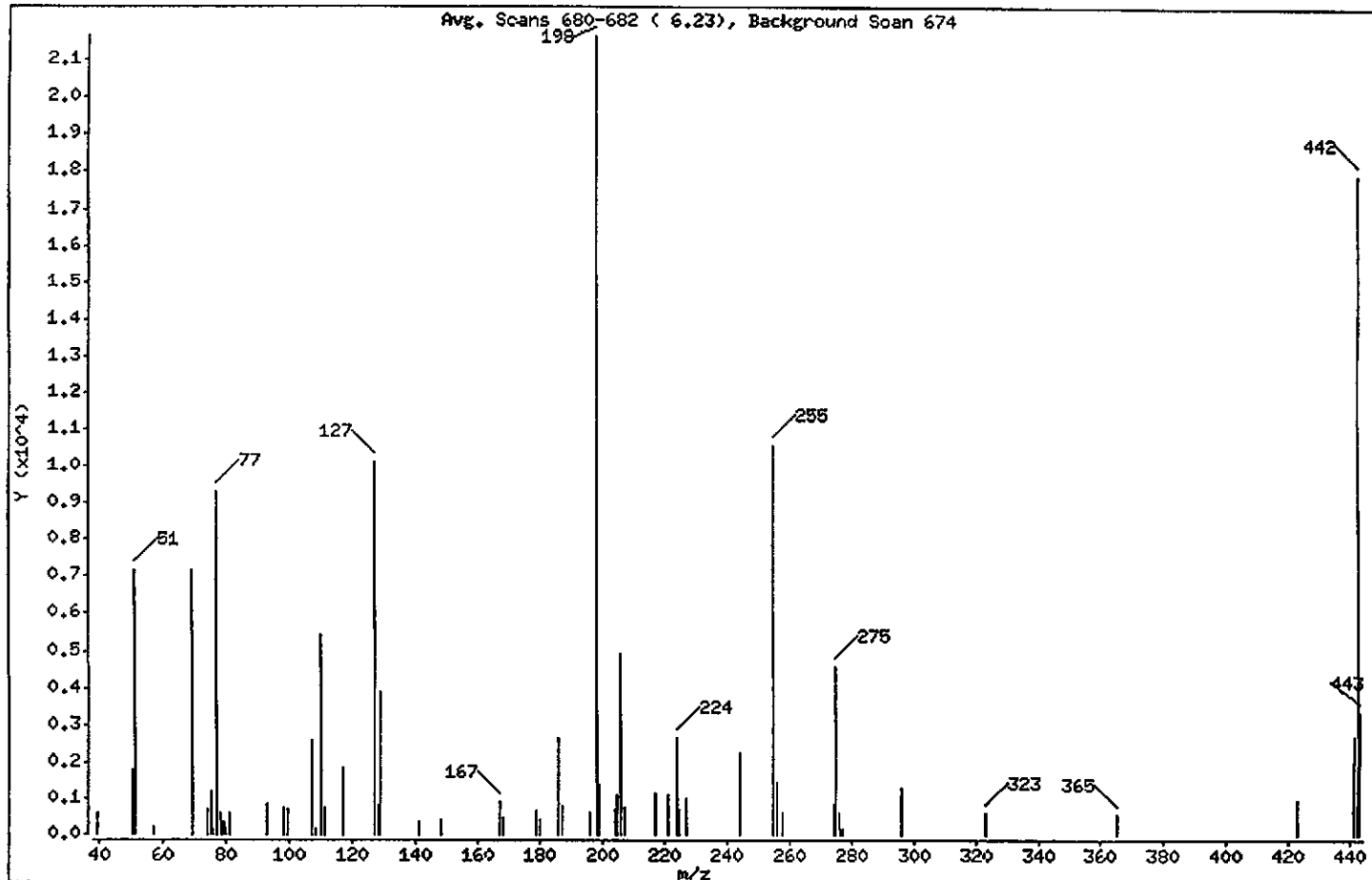
Sample Info: DFTPP050 (25ppb) 194-188-6

Operator: 045183

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	33.18
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	33.11
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	46.64
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.53
275	10.00 - 30.00% of mass 198	21.05
365	Greater than 1.00% of mass 198	2.43
441	Present, but less than mass 443	12.51
442	Greater than 40.00% of mass 198	82.67
443	17.00 - 23.00% of mass 442	15.48 (18.73)

Data File: \\QPITPA02\D\chem\71.i\s092900.b\S0929DF2.D

Page 4

Date : 29-SEP-2000 08:25

Client ID: DFTPP02

Instrument: 71.i

Sample Info: DFTPP050 (25ppb) 194-158-6

Operator: 045183

Column phase:

Column diameter: 2.00

Data File: S0929DF2.D

Spectrum: Avg. Scans 680-682 (6.23), Background Scan 674

Location of Maximum: 198.00

Number of points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	596	99.00	697	186.00	2626	255.00	10559
50.00	1777	107.00	2601	187.00	789	256.00	1439
51.00	7187	108.00	169	196.00	595	258.00	595
57.00	222	110.00	5440	198.00	21656	274.00	866
69.00	7172	111.00	744	199.00	1415	275.00	4559
74.00	701	117.00	1835	204.00	721	276.00	621
75.00	1210	127.00	10102	205.00	1102	277.00	170
76.00	171	128.00	811	206.00	4907	296.00	1317
77.00	9312	129.00	3866	207.00	728	323.00	593
78.00	597	141.00	360	217.00	1160	365.00	526
79.00	360	148.00	375	221.00	1078	423.00	965
80.00	203	167.00	917	224.00	2636	441.00	2709
81.00	592	168.00	438	225.00	685	442.00	17904
93.00	849	179.00	639	227.00	1001	443.00	3354
98.00	730	180.00	385	244.00	2264		

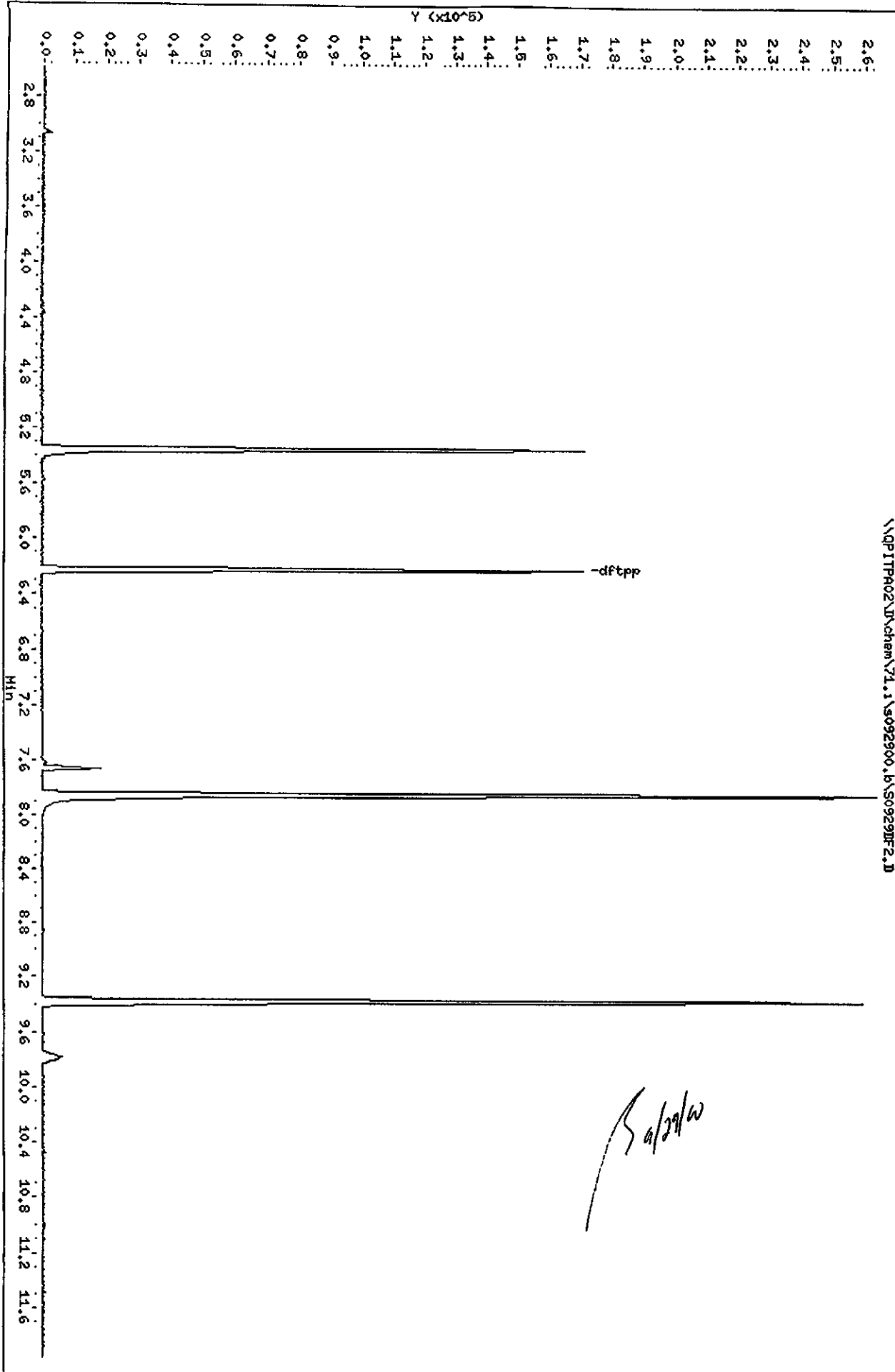
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Date : 29-SEP-2000 08:25
Client ID: DFTPP02
Sample Info: DFTPP050 (25ppb) 194-188-6

Instrument: 71.1

Operator: 045183
Column diameter: 2.00

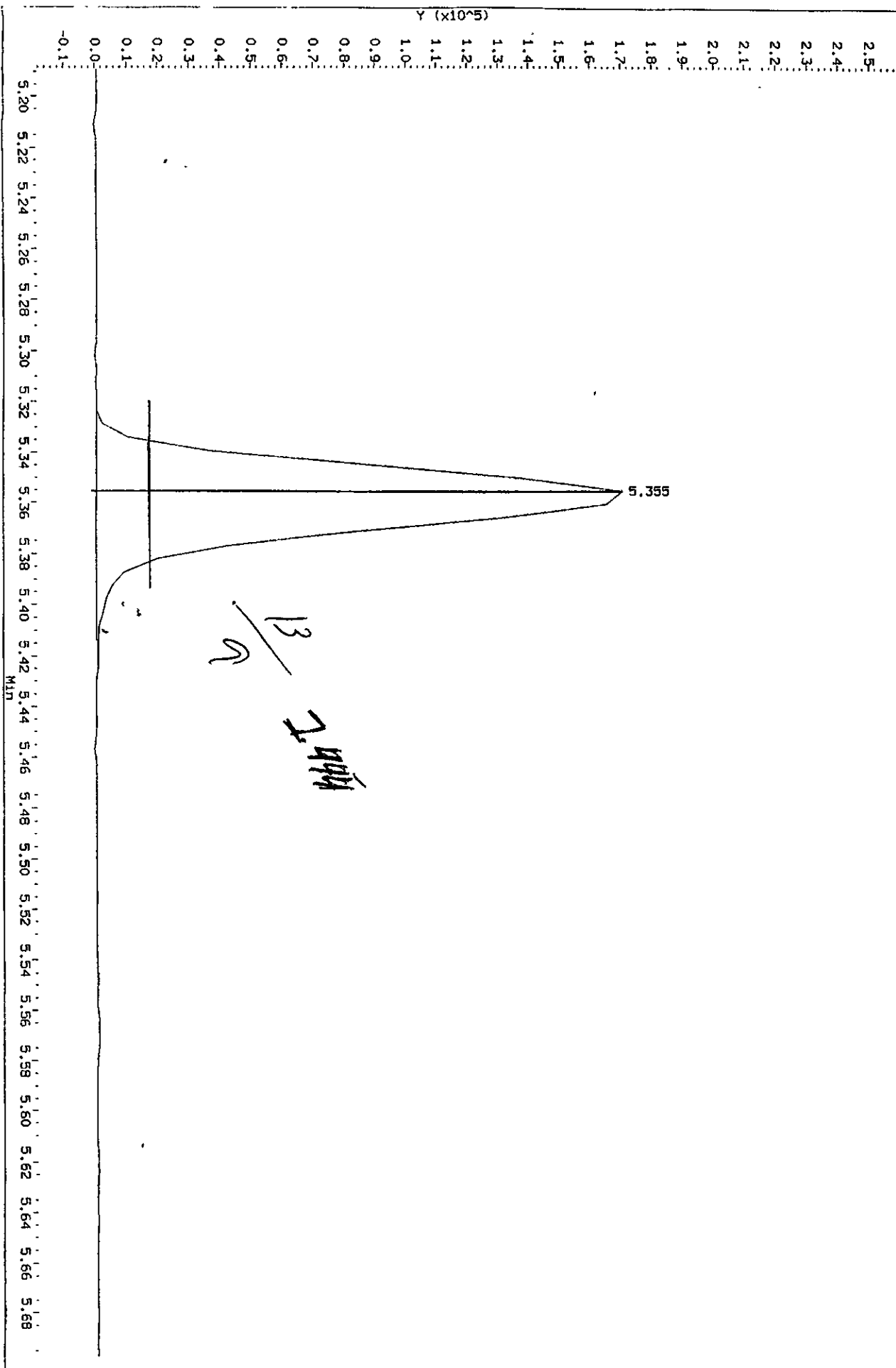
Column phase:

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Data File: \\GPITP002\DVchem\71.1\5092900.b\509290F2.D
Injection Date: 29-SEP-2000 08:25
Instrument: 71.1
Client Sample ID: DFTPP02

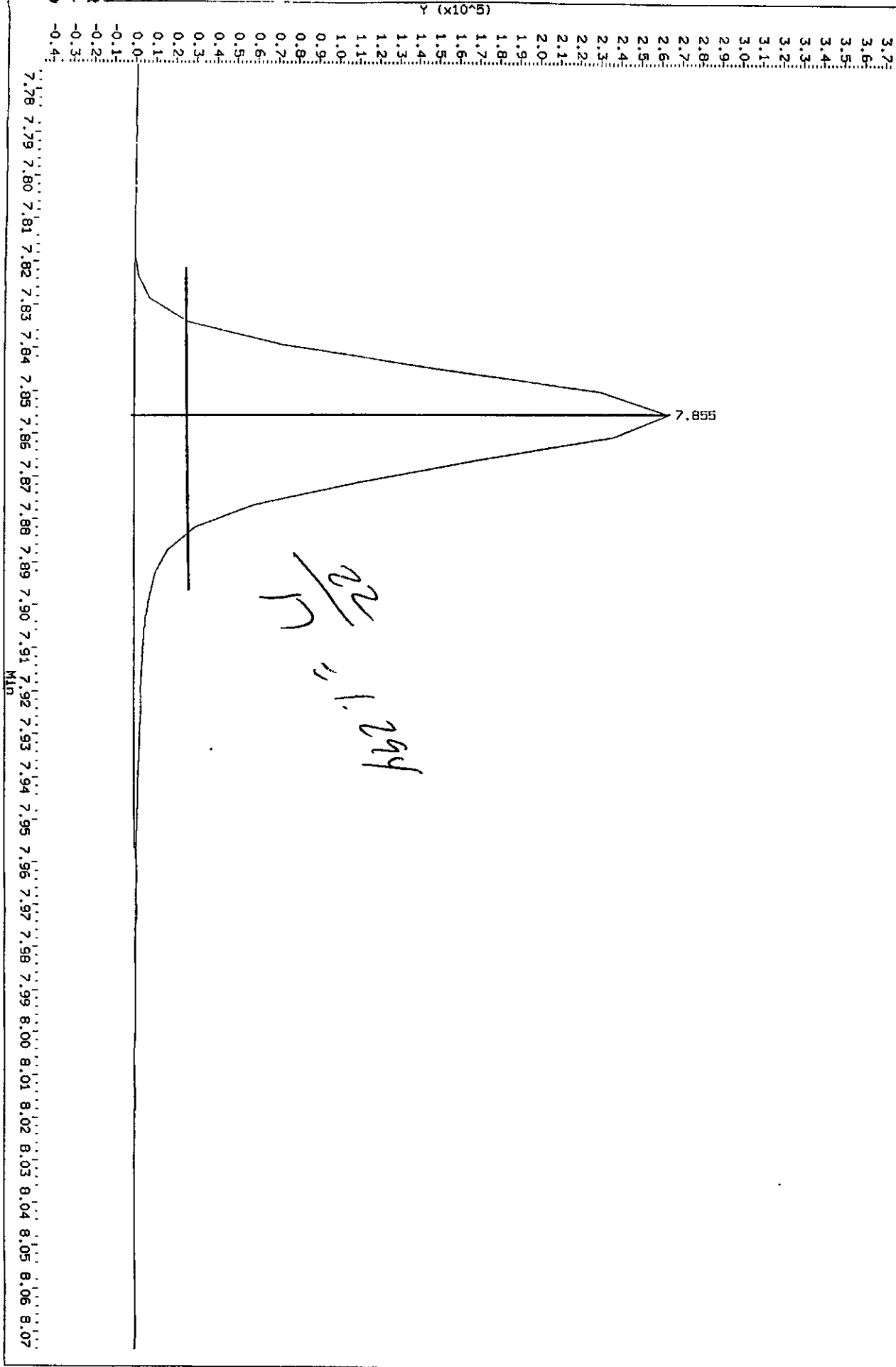
HP ChemStation MS data.ms: 5.189 to 5.697 Min



Data File: \AQIP402\chem\71.1\9092900.b\509290f2.D
 Injection Date: 29-SEP-2000 08:25
 Instrument: 71.1
 Client Sample ID: DTFP02

HP ChemStation MS data.ms: 7.774 to 8.074 Min

6721025



UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID: C0I280000 099
Method: SW846 8270C
Base/Neutrals and Acids (8270C)

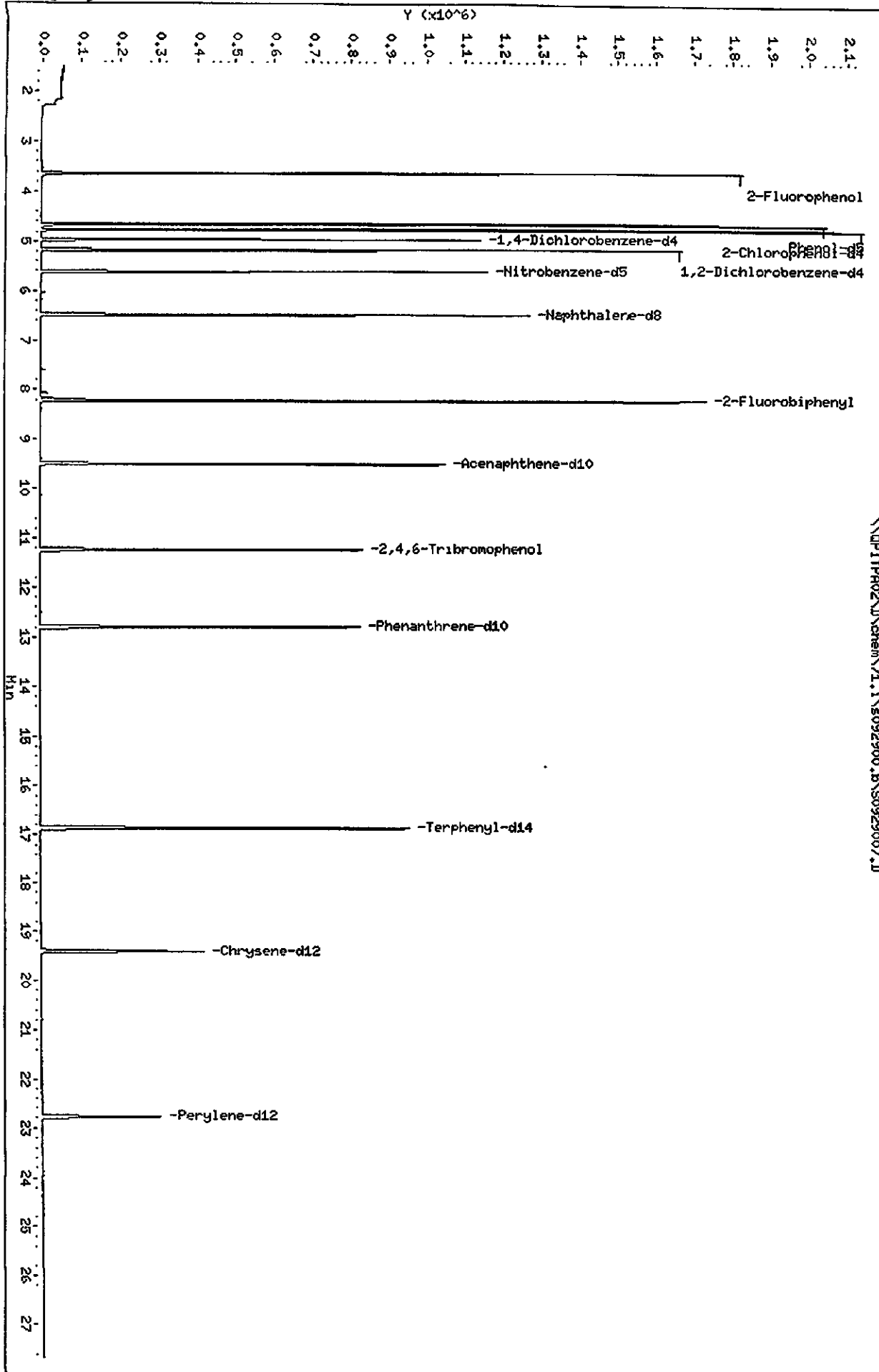
Sample WT/Vol: 200 / mL Date Received: 09/22/00
Work Order: DL676101 Date Extracted: 09/27/00
Dilution factor: 1 Date Analyzed: 09/29/00
Moisture %: NA

QC Batch: 0272099

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.050	U
121-14-2	2,4-Dinitrotoluene	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.050	U
67-72-1	Hexachloroethane	0.050	U
98-95-3	Nitrobenzene	0.050	U
87-86-5	Pentachlorophenol	0.25	U
110-86-1	Pyridine	0.10	U
95-95-4	2,4,5-Trichlorophenol	0.050	U
88-06-2	2,4,6-Trichlorophenol	0.050	U
1319-77-3	Cresols (total)	0.050	U

6721027



Data File: \\PITPA02\chem\71.1\5092900.b\50929007.D
Date: 29-SEP-2000 09:48
Client ID: INTRA-LAB BLANK
Sample Info: c01202008-blk 9/27/00 82700 tolp
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25

Data File: \\QPITPA02\D\chem\71.i\s092900.b\S0929007.D
Report Date: 29-Sep-2000 10:43

Page 1

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s092900.b\S0929007.D
Lab Smp Id: DL676101 Client Smp ID: INTRA-LAB BLANK
Inj Date : 29-SEP-2000 09:48
Operator : 045183 Inst ID: 71.i
Smp Info : c0i220208-sblk 9/27/00 8270c tclp
Misc Info : dl676101,s092900.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s092900.b\8270clp.m
Meth Date : 29-Sep-2000 09:40 bachas Quant Type: ISTD
Cal Date : 29-AUG-2000 10:08 Cal File: S0830CC2.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.001	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
gpc	1.000	gpc correction factor

5/4/29/00

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.971	4.966	(1.000)	226120	40.0000	(a)
* 2 Naphthalene-d8	136	6.488	6.483	(1.000)	862469	40.0000	(a)
* 3 Acenaphthene-d10	164	9.501	9.496	(1.000)	454147	40.0000	(a)
* 4 Phenanthrene-d10	188	12.792	12.787	(1.000)	678516	40.0000	(a)
* 5 Chrysene-d12	240	19.410	19.411	(1.000)	360012	40.0000	(a)
* 6 Perylene-d12	264	22.776	22.777	(1.000)	293812	40.0000	(a)
10 Pyridine	79	Compound Not Detected					
28 1,4-Dichlorobenzene	146	Compound Not Detected					
M 34 Cresols, total	100	Compound Not Detected.					
31 2-Methylphenol	108	Compound Not Detected.					
35 4-Methylphenol	108	Compound Not Detected.					
38 Hexachloroethane	117	Compound Not Detected.					
39 Nitrobenzene	77	Compound Not Detected.					

6721029

Data File: \\QPITPA02\D\chem\71.i\s092900.b\S0929007.D
 Report Date: 29-Sep-2000 10:43

Page 2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (mg/L)
59 Hexachlorobutadiene	224				Compound Not Detected.		
69 2,4,6-Trichlorophenol	196				Compound Not Detected.		
70 2,4,5-Trichlorophenol	196				Compound Not Detected.		
91 2,4-Dinitrotoluene	165				Compound Not Detected.		
113 Hexachlorobenzene	283				Compound Not Detected.		
117 Pentachlorophenol	265				Compound Not Detected.		
\$ 172 Nitrobenzene-d5	82	5.622	5.612	(0.867)	504134	66.8857	0.16721 (a)
\$ 173 2-Fluorobiphenyl	172	8.219	8.214	(0.865)	958716	57.7974	0.14449 (a)
\$ 174 Terphenyl-d14	244	16.862	16.858	(0.869)	761915	109.403	0.27351 (a)
\$ 175 Phenol-d5	99	4.661	4.656	(0.938)	902646	101.445	0.25361 (a)
\$ 176 2-Fluorophenol	112	3.646	3.636	(0.733)	673498	91.2080	0.22802 (a)
\$ 177 2,4,6-Tribromophenol	330	11.237	11.227	(0.878)	191263	93.9510	0.23488 (a)
\$ 178 2-Chlorophenol-d4	132	4.773	4.763	(0.960)	755209	109.278	0.27319 (a)
\$ 179 1,2-Dichlorobenzene-d4	152	5.179	5.169	(1.042)	317656	64.5663	0.16142 (a)

QC Flag Legend

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

UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID: C0I280000 099

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DL676102

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

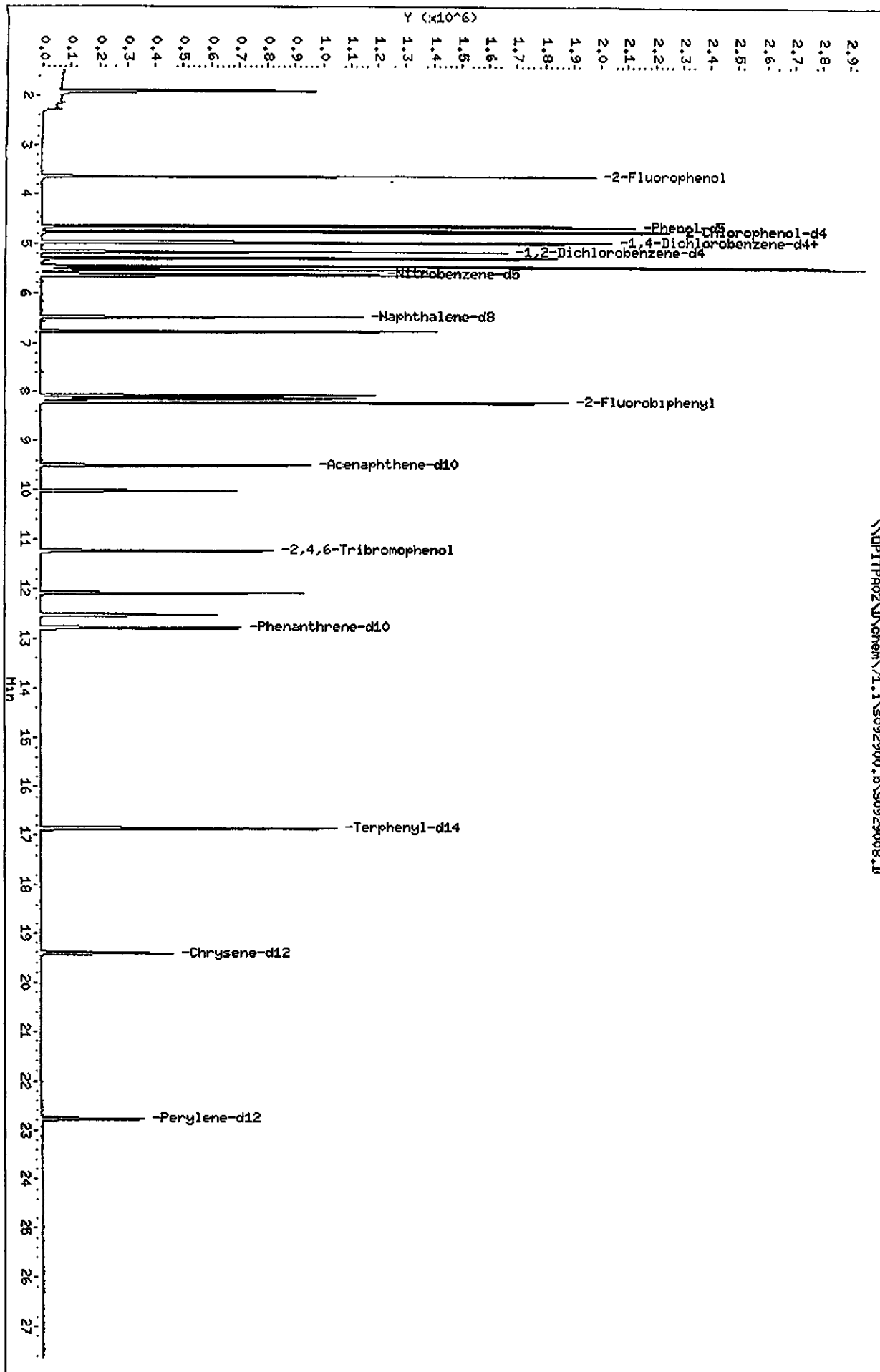
Moisture %: NA

QC Batch: 0272099

Client Sample Id: CHECK SAMPLE

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.189	
121-14-2	2,4-Dinitrotoluene	0.197	
118-74-1	Hexachlorobenzene	0.174	
87-68-3	Hexachlorobutadiene	0.188	
67-72-1	Hexachloroethane	0.193	
98-95-3	Nitrobenzene	0.199	
87-86-5	Pentachlorophenol	0.195	
110-86-1	Pyridine	0.230	
95-95-4	2,4,5-Trichlorophenol	0.184	
88-06-2	2,4,6-Trichlorophenol	0.178	
1319-77-3	Cresols (total)	0.626	

672103i



Data File: \NPI\PA02\chem\71.1\5092900.b\50929008.D
Date : 29-SEP-2000 10:21
Client ID: INTRA-LAB CHECK
Sample Info: 00120208-1cs 9/27/00 8270c tolp
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.1
Operator: 048183
Column diameter: 0.25

\NPI\PA02\chem\71.1\5092900.b\50929008.D

Data File: \\QPITPA02\D\chem\71.i\s092900.b\S0929008.D
Report Date: 29-Sep-2000 10:54

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s092900.b\S0929008.D
Lab Smp Id: DL676102 Client Smp ID: INTRA-LAB CHECK
Inj Date : 29-SEP-2000 10:21
Operator : 045183 Inst ID: 71.i
Smp Info : c0i220208-lcs 9/27/00 8270c tclp
Misc Info : dl676102,s092900.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s092900.b\8270clp.m
Meth Date : 29-Sep-2000 09:40 bachas Quant Type: ISTD
Cal Date : 29-AUG-2000 10:08 Cal File: S0830CC2.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{gpc}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.001	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	200.000	Volume of sample extracted (mL)
Vi	2.000	Volume injected (uL)
gpc	1.000	gpc correction factor

34/29/00

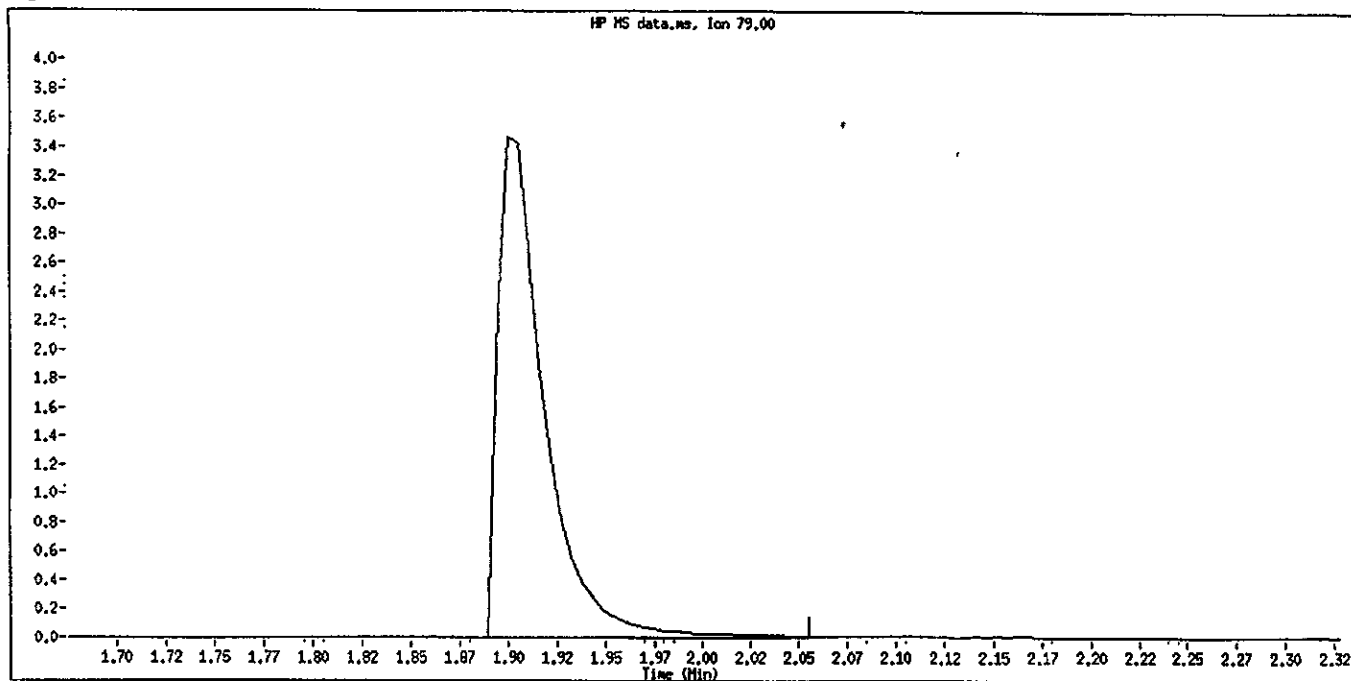
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (mg/L)
*****	****	--	*****	*****	*****	*****	*****
* 1 1,4-Dichlorobenzene-d4	152	4.971	4.966 (1.000)		213747	40.0000	(a)
* 2 Naphthalene-d8	136	6.489	6.483 (1.000)		804360	40.0000	(a)
* 3 Acenaphthene-d10	164	9.502	9.496 (1.000)		410231	40.0000	(a)
* 4 Phenanthrene-d10	188	12.792	12.787 (1.000)		608431	40.0000	(a)
* 5 Chrysene-d12	240	19.411	19.411 (1.000)		404723	40.0000	(a)
* 6 Perylene-d12	264	22.771	22.777 (1.000)		342877	40.0000	(a)
10 Pyridine	79	1.900	1.894 (0.382)		584122	91.8226	0.22956 (aM)
28 1,4-Dichlorobenzene	146	4.987	4.982 (1.003)		601187	75.5329	0.18883 (a)
M 34 Cresols, total	100				1554614	250.591	0.62648 (a)
31 2-Methylphenol	108	5.297	5.297 (1.066)		507730	81.1418	0.20285 (a)
35 4-Methylphenol	108	5.468	5.452 (1.100)		1046884	169.449	0.42362 (aA)
38 Hexachloroethane	117	5.532	5.527 (1.113)		217325	77.1966	0.19299 (a)
39 Nitrobenzene	77	5.645	5.634 (0.870)		565081	79.7020	0.19925 (a)

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ng)	(mg/L)	
=====	=====	==	=====	=====	=====	=====	=====	
59 Hexachlorobutadiene	225	6.772	6.761	(1.044)	235590	75.0793	0.18770 (a)	
69 2,4,6-Trichlorophenol	196	8.075	8.070	(0.850)	282114	71.1203	0.17780 (a)	
70 2,4,5-Trichlorophenol	196	8.139	8.139	(0.857)	298706	73.7030	0.18426 (a)	
91 2,4-Dinitrotoluene	165	10.025	10.020	(1.055)	259418	78.8529	0.19713 (a)	
113 Hexachlorobenzene	284	12.092	12.087	(0.945)	261190	69.4285	0.17357 (a)	
117 Pentachlorophenol	266	12.531	12.525	(0.980)	153734	77.9225	0.19481 (aM)	
\$ 172 Nitrobenzene-d5	82	5.623	5.612	(0.867)	534925	76.0980	0.19024 (aR)	
\$ 173 2-Fluorobiphenyl	172	8.219	8.214	(0.865)	1003952	67.0038	0.16751 (aR)	
\$ 174 Terphenyl-d14	244	16.863	16.858	(0.869)	804895	102.807	0.25702 (aR)	
\$ 175 Phenol-d5	99	4.662	4.656	(0.938)	943929	112.226	0.28056 (aR)	
\$ 176 2-Fluorophenol	112	3.647	3.636	(0.734)	731598	104.811	0.26203 (aR)	
\$ 177 2,4,6-Tribromophenol	330	11.232	11.227	(0.878)	192693	105.557	0.26389 (aR)	
\$ 178 2-Chlorophenol-d4	132	4.768	4.763	(0.959)	805374	123.282	0.30820 (aR)	
\$ 179 1,2-Dichlorobenzene-d4	152	5.180	5.169	(1.042)	340390	73.1921	0.18298 (aR)	

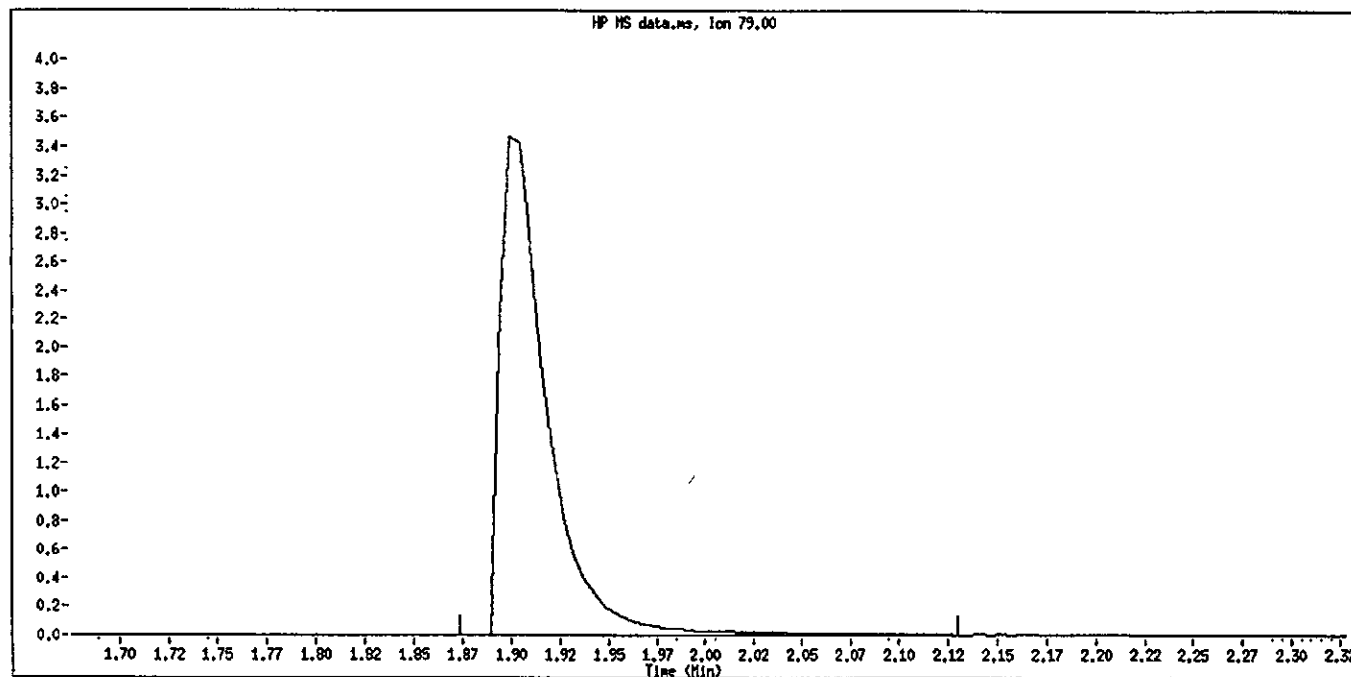
QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File Name. S0929008.D
Inj. Date and Time 29-SEP-2000 10 21
Instrument ID: 71 i
Client ID: INTRA-LAB CHECK
Compound Name: Pyridine
CAS #: 110-86-1
Report Date. 09/29/2000



Original Integration



Manual Integration

Manually Integrated By BachaS
Manual Integration Reason: Poor Chromatography

6721035

Data File Name: S0929008.D

Inj. Date and Time: 29-SEP-2000 10:21

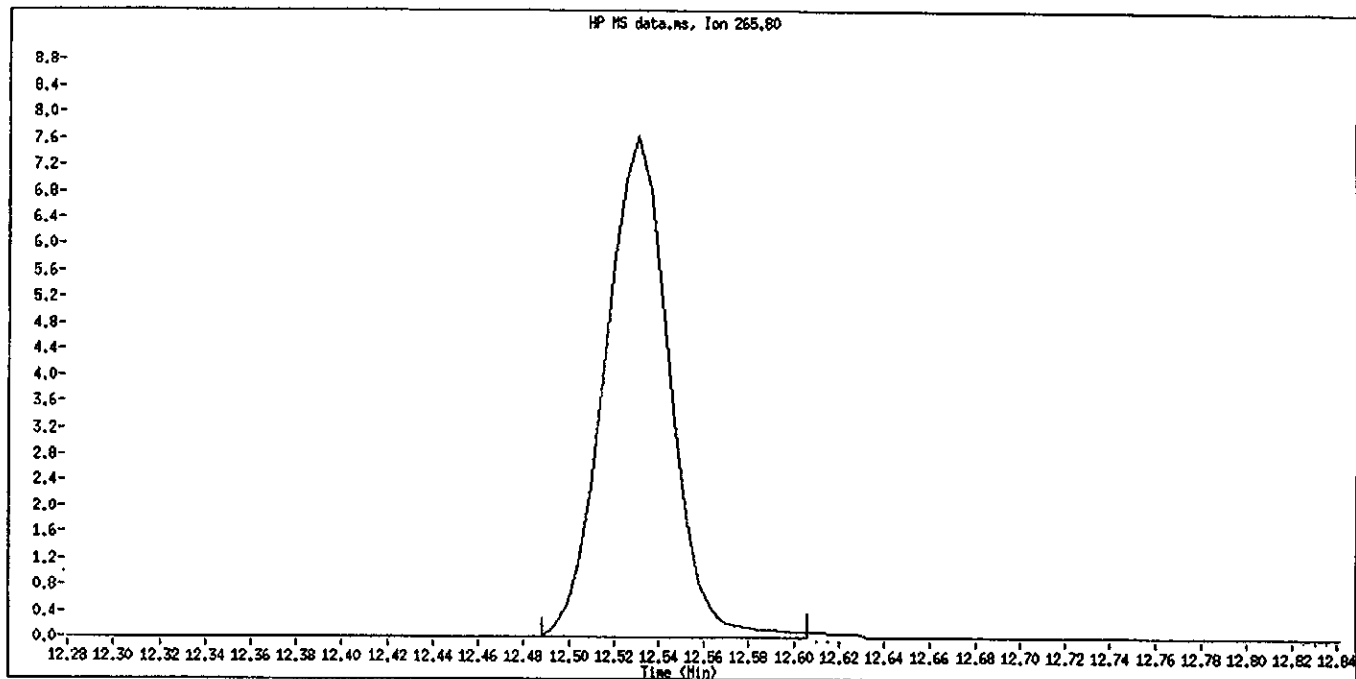
Instrument ID: 71.1

Client ID: INTRA-LAB CHECK

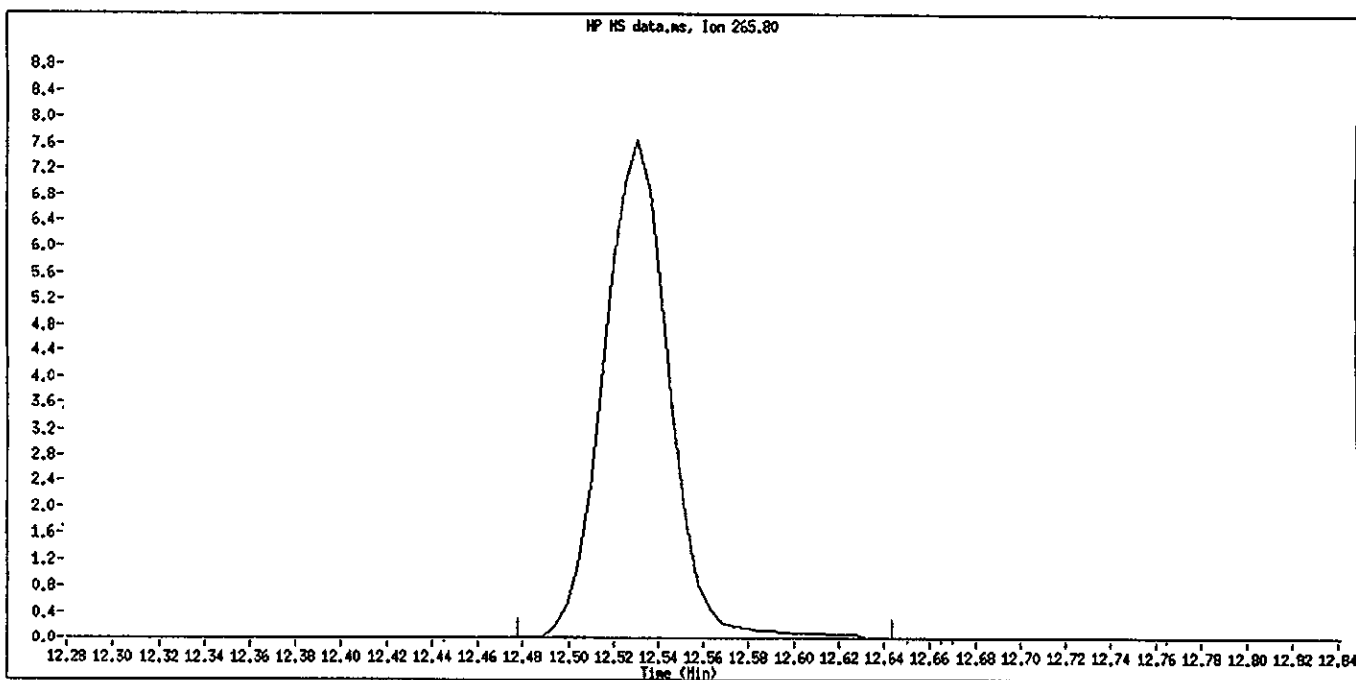
Compound Name: Pentachlorophenol

CAS #: 87-86-5

Report Date: 09/29/2000



Original Integration



Manual Integration

Manually Integrated By: BachaS

Manual Integration Reason: Poor Chromatography

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DKVJW10L

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 11

QC Batch: 0272099

Client Sample Id: DF/24-A/0265/SDC/001

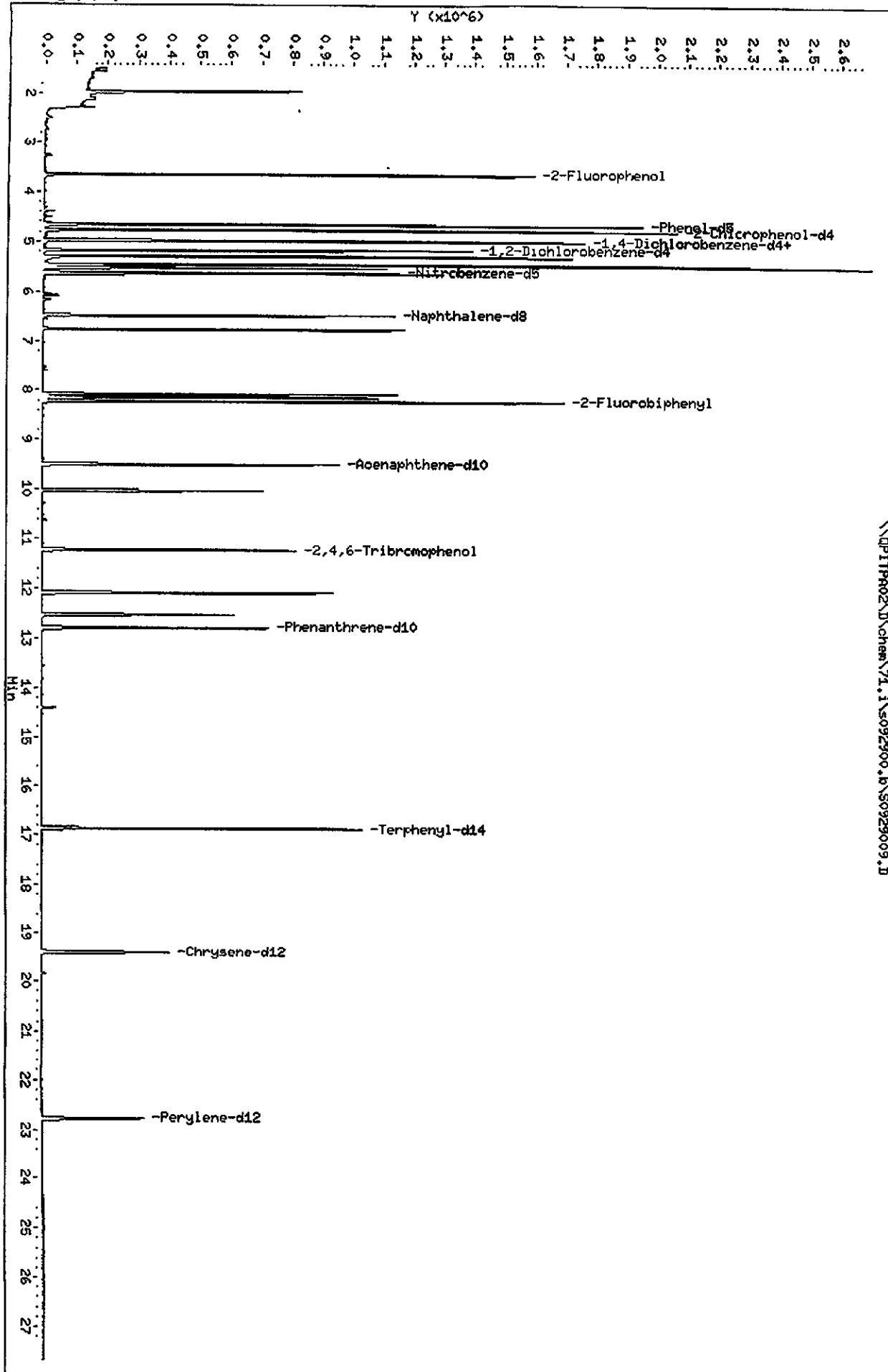
CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.165	
121-14-2	2,4-Dinitrotoluene	0.203	
118-74-1	Hexachlorobenzene	0.172	
87-68-3	Hexachlorobutadiene	0.156	
67-72-1	Hexachloroethane	0.161	
98-95-3	Nitrobenzene	0.188	
87-86-5	Pentachlorophenol	0.185	
110-86-1	Pyridine	0.195	
95-95-4	2,4,5-Trichlorophenol	0.174	
88-06-2	2,4,6-Trichlorophenol	0.170	
1319-77-3	Cresols (total)	0.608	

6721037

Data File: \\QPIF002\Jchem\71.i\S092900.b\S0929009.D
Date: 29-SEP-2000 10:54
Client ID: DF/24-R/0265/SDC/00
Sample Info: c0120208-001as 9/27/00 8270c tc1p
Volume Injected (uL): 2.0
Column phase: Hp5-MS

Instrument: 71.i
Operator: 045183
Column diameter: 0.25

\\QPIF002\Jchem\71.i\S092900.b\S0929009.D



STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s092900.b\S0929009.D
Lab Smp Id: DKVJW10L Client Smp ID: DF/24-A/0265/SDC/00
Inj Date : 29-SEP-2000 10:54
Operator : 045183 Inst ID: 71.i
Smp Info : c0i220208-001ms 9/27/00 8270c tclp
Misc Info : dkvjw101,s092900.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s092900.b\8270clp.m
Meth Date : 29-Sep-2000 10:58 bachas Quant Type: ISTD
Cal Date : 29-AUG-2000 10:08 Cal File: S0830CC2.D
Als bottle: 10 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.001	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	200.000	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 (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.975	4.966	(1.000)	207992	40.0000	(a)
* 2 Naphthalene-d8	136	6.487	6.483	(1.000)	798685	40.0000	(a)
* 3 Acenaphthene-d10	164	9.505	9.496	(1.000)	414077	40.0000	(a)
* 4 Phenanthrene-d10	188	12.796	12.787	(1.000)	620474	40.0000	(a)
* 5 Chrysene-d12	240	19.415	19.411	(1.000)	364664	40.0000	(a)
* 6 Perylene-d12	264	22.775	22.777	(1.000)	310059	40.0000	(a)
10 Pyridine	79	1.952	1.894	(0.392)	483386	78.0896	0.19522 (aM)
28 1,4-Dichlorobenzene	146	4.991	4.982	(1.003)	510104	65.8625	0.16466 (a)
M 34 Cresols, total	100				1467082	243.037	0.60759 (a)
31 2-Methylphenol	108	5.301	5.297	(1.065)	473498	77.7649	0.19441 (a)
35 4-Methylphenol	108	5.472	5.452	(1.100)	993584	165.272	0.41318 (aA)
38 Hexachloroethane	117	5.536	5.527	(1.113)	176446	64.4101	0.16102 (a)
39 Nitrobenzene	77	5.648	5.634	(0.871)	528798	75.1144	0.18778 (a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (mg/L)
*****	****	==	*****	*****	*****	*****	*****
59 Hexachlorobutadiene	225	6.770	6.761	(1.044)	194052	62.2811	0.15570(a)
69 2,4,6-Trichlorophenol	196	8.079	8.070	(0.850)	272493	68.0568	0.17014(a)
70 2,4,5-Trichlorophenol	196	8.143	8.139	(0.857)	284058	69.4377	0.17359(a)
91 2,4-Dinitrotoluene	165	10.029	10.020	(1.055)	269100	81.0362	0.20259(a)
113 Hexachlorobenzene	284	12.096	12.087	(0.945)	264223	68.8716	0.17218(a)
117 Pentachlorophenol	266	12.534	12.525	(0.980)	149146	74.1299	0.18532(aM)
\$ 172 Nitrobenzene-d5	82	5.627	5.612	(0.867)	499459	71.5575	0.17889(a)
\$ 173 2-Fluorobiphenyl	172	8.223	8.214	(0.865)	891836	58.9683	0.14742(a)
\$ 174 Terphenyl-d14	244	16.867	16.858	(0.869)	808957	114.676	0.28669(a)
\$ 175 Phenol-d5	99	4.665	4.656	(0.938)	868445	106.108	0.26527(a)
\$ 176 2-Fluorophenol	112	3.650	3.636	(0.734)	604175	88.9512	0.22238(a)
\$ 177 2,4,6-Tribromophenol	330	11.236	11.227	(0.878)	189109	101.583	0.25396(a)
\$ 178 2-Chlorophenol-d4	132	4.772	4.763	(0.959)	720882	113.402	0.28350(a)
\$ 179 1,2-Dichlorobenzene-d4	152	5.178	5.169	(1.041)	271598	60.0161	0.15004(a)

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.
- M - Compound response manually integrated.

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 001

Method: SW846 8270C

Base/Neutrals and Acids (8270C)

Sample WT/Vol: 200 / mL

Date Received: 09/22/00

Work Order: DKVJW10M

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

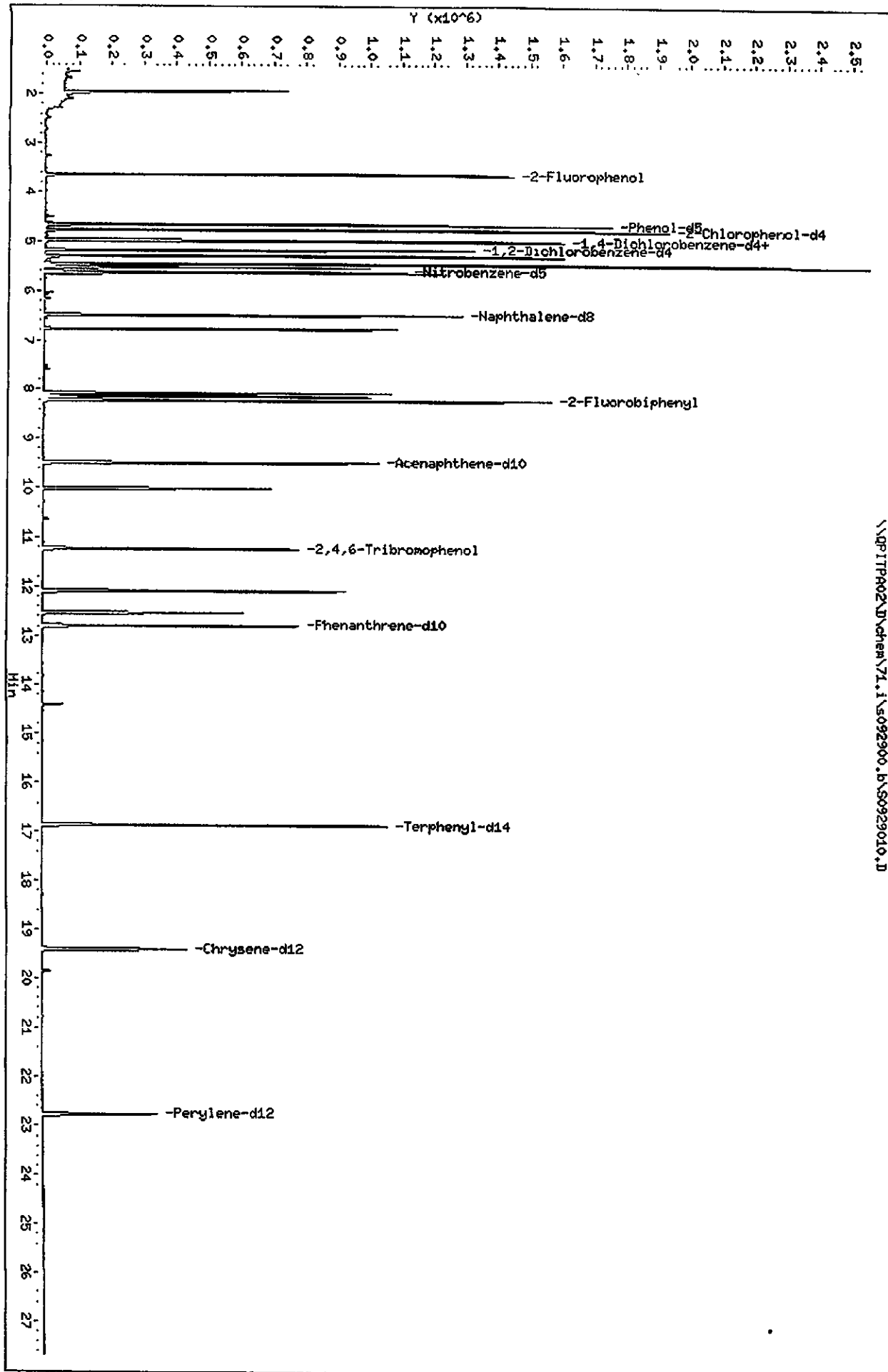
Moisture %: 11

QC Batch: 0272099

Client Sample Id: DF/24-A/0265/SDC/001

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
106-46-7	1,4-Dichlorobenzene	0.138	
121-14-2	2,4-Dinitrotoluene	0.179	
118-74-1	Hexachlorobenzene	0.161	
87-68-3	Hexachlorobutadiene	0.129	
67-72-1	Hexachloroethane	0.132	
98-95-3	Nitrobenzene	0.161	
87-86-5	Pentachlorophenol	0.177	
110-86-1	Pyridine	0.166	
95-95-4	2,4,5-Trichlorophenol	0.157	
88-06-2	2,4,6-Trichlorophenol	0.147	
1319-77-3	Cresols (total)	0.513	

6721041



Data File: \\QPIITP002\DVchem\71.1\5092900.b\50929010.D
Date: 29-SEP-2000 11:28
Client ID: DF/24-A/0265/SDC/00
Sample Info: 001220208-001msd 9/27/00 8270c tolp
Volume Injected (uL): 2.0
Column phase: HFS-HS

Instrument: 71.1
Operator: 045183
Column diameter: 0.25

Data File: \\QPITPA02\D\chem\71.i\s092900.b\S0929010.D
Report Date: 29-Sep-2000 12:14

STL - Pittsburgh

Semivolatile REPORT SW-846 Method 8270

Data file : \\QPITPA02\D\chem\71.i\s092900.b\S0929010.D
Lab Smp Id: DKVJW10M Client Smp ID: DF/24-A/0265/SDC/00
Inj Date : 29-SEP-2000 11:28
Operator : 045183 Inst ID: 71.i
Smp Info : c0i220208-001msd 9/27/00 8270c tclp
Misc Info : dkvjw10m,s092900.b,8270clp.m,1-tclp.sub,
Comment :
Method : \\QPITPA02\D\chem\71.i\s092900.b\8270clp.m
Meth Date : 29-Sep-2000 10:58 bachas Quant Type: ISTD
Cal Date : 29-AUG-2000 10:08 Cal File: S0830CC2.D
Als bottle: 11 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-tclp.sub
Target Version: 4.04
Processing Host: PITPC050

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{gpc}$

Name	Value	Description
DF	1.000	Dilution Factor
Uf	0.001	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	200.000	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 (mg/L)
* 1 1,4-Dichlorobenzene-d4	152	4.976	4.966	(1.000)	228467	40.0000	(a)
* 2 Naphthalene-d8	136	6.488	6.483	(1.000)	877776	40.0000	(a)
* 3 Acenaphthene-d10	164	9.501	9.496	(1.000)	452129	40.0000	(a)
* 4 Phenanthrene-d10	188	12.797	12.787	(1.000)	662258	40.0000	(a)
* 5 Chrysene-d12	240	19.416	19.411	(1.000)	397161	40.0000	(a)
* 6 Perylene-d12	264	22.776	22.777	(1.000)	332035	40.0000	(a)
10 Pyridine	79	1.947	1.894	(0.391)	451029	66.3326	0.16583 (aM)
28 1,4-Dichlorobenzene	146	4.992	4.982	(1.003)	467946	55.0046	0.13751 (a)
M 34 Cresols, total	100				1360527	205.185	0.51296 (a)
31 2-Methylphenol	108	5.302	5.297	(1.065)	439649	65.7347	0.16434 (a)
35 4-Methylphenol	108	5.468	5.452	(1.099)	920878	139.451	0.34863 (a)
38 Hexachloroethane	117	5.537	5.527	(1.113)	159407	52.9752	0.13244 (a)
39 Nitrobenzene	77	5.649	5.634	(0.871)	497308	64.2763	0.16069 (a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng)	FINAL (mg/L)
=====	=====	==	=====	=====	=====	=====	=====
59 Hexachlorobutadiene	225	6.771	6.761	(1.044)	176427	51.5223	0.12880(a)
69 2,4,6-Trichlorophenol	196	8.080	8.070	(0.850)	256799	58.7393	0.14685(a)
70 2,4,5-Trichlorophenol	196	8.144	8.139	(0.857)	280618	62.8236	0.15706(a)
91 2,4-Dinitrotoluene	165	10.025	10.020	(1.055)	259693	71.6216	0.17905(a)
113 Hexachlorobenzene	284	12.097	12.087	(0.945)	263577	64.3685	0.16092(a)
117 Pentachlorophenol	266	12.535	12.525	(0.980)	151888	70.7298	0.17682(aM)
\$ 172 Nitrobenzene-d5	82	5.628	5.612	(0.867)	469138	61.1572	0.15289(a)
\$ 173 2-Fluorobiphenyl	172	8.224	8.214	(0.866)	844520	51.1402	0.12785(a)
\$ 174 Terphenyl-d14	244	16.868	16.858	(0.869)	826077	107.521	0.26880(a)
\$ 175 Phenol-d5	99	4.666	4.656	(0.938)	785034	87.3208	0.21830(a)
\$ 176 2-Fluorophenol	112	3.657	3.636	(0.735)	553670	74.2101	0.18552(a)
\$ 177 2,4,6-Tribromophenol	330	11.237	11.227	(0.878)	183569	92.3852	0.23096(a)
\$ 178 2-Chlorophenol-d4	132	4.773	4.763	(0.959)	666645	95.4717	0.23868(a)
\$ 179 1,2-Dichlorobenzene-d4	152	5.179	5.169	(1.041)	255118	51.3222	0.12830(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

**GC/MS SEMIVOLATILE
MISCELLANEOUS**

6721045 Operator: 045183
Data Path: D:\HPCHEM\1\DATA\s082900.b\
Pre-Seq Cmd:
Post-Seq Cmd:

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

Handwritten signature
194-183-6

E270

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	1	S0829DFT	DFTPP1	DFTPP050 (25ppb) 194-158-6
2	Sample	1	S0829DF1	DFTPP1	DFTPP050 (25ppb) 194-158-6
3	Sample	2	S0830CC2	EARLY	sstd50(25 ug/ml) 194-183-14 8
4	Sample	95	S0830CC1	EARLY	sstd20(10 ug/ml) 194-188-3 82
5	Sample	96	S0830CC3	EARLY	sstd80(40 ug/ml) 194-188-5 82
6	Sample	97	S0830CC4	EARLY	sstd120(60 ug/ml) 194-188-6 8
7	Sample	98	S0830CC5	EARLY	sstd160(80 ug/ml) 194-188-7 8
8	Sample	99	S0830CC6	EARLY	ver50(25 ug/ml) 194-183-8 827
9	Sample	4	S0829002	EARLY	c0h180282-sblk 8/21/00 sadva1
10	Sample	5	S0829003	EARLY	c0h180282-lcs 8/21/00 sadva14
11	Sample	6	S0829004	EARLY	c0h180282-001 8/21/00 sadva14
12	Sample	7	S0829005	EARLY	c0h180282-001ms 8/21/00 sadva
13	Sample	8	S0829006	EARLY	c0h180282-001msd 8/21/00 sadv
14	Sample	9	S0829007	EARLY	c0h180282-002 8/21/00 sadva14
15	Sample	10	S0829008	EARLY	c0h180282-003 8/21/00 sadva14
16	Sample	11	S0829009	EARLY	c0h180282-004 8/21/00 sadva14
17	Sample	12	S0829010	EARLY	c0h180282-005 8/21/00 sadva14
18	Sample	13	S0829011	EARLY	c0h180282-006 8/21/00 sadva14
19	Sample	14	S0829012	EARLY	c0h180282-007 8/21/00 sadva14
20	Sample	19	S0829013	EARLY	c0h180282-012 8/21/00 sadva14
21	Sample	20	S0829014	EARLY	c0h150136-004ms 8/16/00 sadva
22	Sample	3	S0829015	EARLY	c0h150136-005 8/16/00 sadva11

*Seperate
Copy of 5 pt*

SPB-4181	Lot Number	Date	Checked by	Date	pH Instrument	Probe	Serial Number	Log Book Number
094-4181	Edmael Murphy	9-25-00	<i>[Signature]</i>	9-26-00	Acument A25	IN0051457	094	96-MT-526
094-4181	Lot Number	Date	Client Codes		Solution Number 1 - Log Book Number		Solution Number 2 - Log Book Number	
094-4181	01220308; 01220315				00449-12			

Fluid Determination				TCLP Extraction					
Sample ID	Wgt/Vol	Init. pH	Final pH	Extract Fluid #1, or #2	Conc.: HNO ₃ to Acidity (for Metals)	Sample ID	Wgt (g) Wet/Dry	Fluid Vol.	Final pH After Tumbling
DK JW	500g / 96.5ml	10.07	1.66	Soln #1	10ml	1. PB TCLP	---	2000ml	4.91
DNVK3	/	9.67	1.71	/	1ml	2 ↓	---	/	4.92
DNVK4	/	8.91	1.68	/	↓	3. DKXPW	100.0g	/	5.32
DKXPW	/	10.37	1.74	/	4ml	4. ↓	/	/	5.31
DKWMT	/	6.48	1.99	/	↓	5. DNKJW	/	/	5.80
DKWMX	/	6.12	1.76	/	↓	6. DNVK3	/	/	5.98
DKWNO	↓	6.37	1.66	↓	↓	7. DNVK4	↓	↓	5.14
/	/	/	/	/	1ml	8. DKWMT	10.0g	200ml	5.17
/	/	/	/	/	↓	9. DKWMX	↓	↓	5.04
/	/	/	/	/	/	10. DKWNO	↓	↓	6.10
/	5.1m	9.25-00	/	/	/	11. /	/	/	/
/	/	/	/	/	/	12. /	5.1m	9-32	/
/	/	/	/	/	/	13. /	/	/	/

[illegible]

Date/Time On	Date/Time Off	Agitation Apparatus RPMs.			
		30 ± 2			
9-25-00		pH Calibration	(4.0)	(7.0)	(10.0)
Date 9-25-00			4.00	7.02	10.04
Date 9-26-00			4.00	7.02	10.05
Comments					

= Sample determined to have free-liquid. % solid determination was performed.
 5.5 = Extraction Fluid No. 1 5.7 mL Glacial Acetic Acid dil 500 mL + 64.3 mL of 1N Na OH dil to 1L (pH 4.93 ± 0.05)
 5.5 = Extraction Fluid No. 2 5.7 mL Glacial Acetic Acid dil to 1L (pH 2.88 ± 0.05)

Temp = 80°C
 pH E.F. = 4.93

2117

Sequence Name: D:\HPCHEM\1\SEQUENCE\S092900.S

6721048

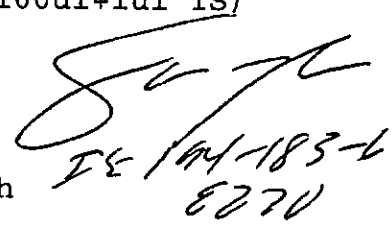
Comment: STL PITT HP597371A LOG 2ul inj (100ul+1ul IS)

Operator: 045183

Data Path: D:\HPCHEM\1\DATA\s092900.b\

Pre-Seq Cmd:

Post-Seq Cmd:



IS 104-183-1
8270

Method Sections To Run On A Barcode Mismatch

(X) Full Method (X) Inject Anyway

() Reprocessing Only () Don't Inject

Line Type	Vial	DataFile	Method	Sample Name
1 Sample	1	S0929DF1	DFTPP1	DFTPP050 (25ppb) 194-158-6
2 Sample	1	S0929DF2	DFTPP1	DFTPP050 (25ppb) 194-158-6
3 Sample	2	S0929CCC	EARLY	sstd50(25 ug/ml) 77-01-2 8270
4 Sample	8	S0929007	EARLY	c0i220208-sblk 9/27/00 8270c
5 Sample	9	S0929008	EARLY	c0i220208-lcs 9/27/00 8270c t
6 Sample	10	S0929009	EARLY	c0i220208-001ms 9/27/00 8270c
7 Sample	11	S0929010	EARLY	c0i220208-001msd 9/27/00 8270
8 Sample	12	S0929011	EARLY	c0i220208-001 9/27/00 8270c t
9 Sample	13	S0929012	EARLY	c0i220208-002 9/27/00 8270c t
10 Sample	14	S0929013	EARLY	c0i220208-003 9/27/00 8270c t
11 Sample	15	S0929014	EARLY	c0i140224-sblk 9/26/00 8270c
12 Sample	16	S0929015	EARLY	c0i140224-lcs 9/26/00 8270c t
13 Sample	21	S0929020	EARLY	c0i140224-003 9/26/00 8270c t
14 Sample	6	S0929004	LATE	c0i270245-001 x2 SED2 9/28/00
15 Sample	20	S0929019	EARLY	c0i140224-002 9/26/00 8270c t
16 Sample	3	S0929001	LATE	c0i270245-002 x2 SED2 9/28/00
17 Sample	17	S0929016	EARLY	c0i140224-001 9/26/00 8270c t
18 Sample	4	S0929002	LATE	c0i270245-002ms x2 SED2 9/28/
19 Sample	18	S0929017	EARLY	c0i140224-001ms 9/26/00 8270c
20 Sample	5	S0929003	LATE	c0i270245-002msd x2 SED2 9/28
21 Sample	19	S0929018	EARLY	c0i140224-001msd 9/26/00 8270
22 Sample	7	S0929005	LATE	c0i270245-003 SED2 9/28/00 82
23 Sample	100	S0929CL1	LATE	cln blk
24 Sample	100	S0929CL2	LATE	cln blk
25 Sample	100	S0929CL3	LATE	cln blk
26 Sample	100	S0929CL4	LATE	cln blk
27 Sample	100	S0929CL5	LATE	cln blk
28 Sample	100	S0929CL6	LATE	cln blk
29 Sample	100	S0929CL7	LATE	cln blk
30 Sample	100	S0929CL8	LATE	cln blk

6721049

PSR024 9/27/00 4:36:53 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: TROUTB

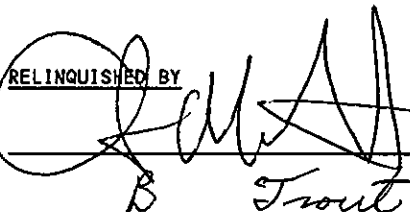
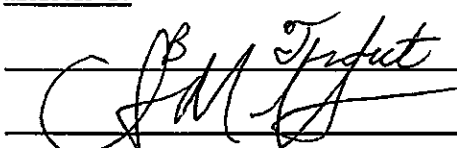
METHOD: QL Base/Neutrals and Acids (8270C)

<u>STORAGE LOCATION</u>	<u>WORK ORDER #</u>	<u>PICKED</u> <u>CNTR#</u>	<u>CONTROL #</u>	<u>CLIENT #</u>	<u>ANALYSIS</u>	<u>LOTID</u>	<u>SMP#</u>	<u>SFX</u>	<u>MATRIX</u> <u>DESCRIPTION</u>	<u>QTY</u> <u>RCVD</u>	<u>QTY</u> <u>REQD</u>
13D CLP1 15E	DKVJW-1-03	___	267188	399411	A-59-QL	C01220208	001		SOLID	0	3 1
13D CLP1	DKVK3-1-03	___	267189	399411	A-59-QL	C01220208	002		SOLID	0	3 1
13D CLP1	DKVK4-1-03	___	267190	399411	A-59-QL	C01220208	003		SOLID	0	3 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME


B Trout
B Trout9/27/2000 07:40
9/27/2000 14:10

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

PESTICIDE DATA

..6721051

**PESTICIDE
QC SUMMARY**

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0I220208

	CLIENT ID.	SRG01	SRG02	TOT OUT
	=====	=====	=====	=====
01	DF/24-A/0265/SDC/001	101	86	00
02	DF/24-A/0265/SDC/002	104	90	00
03	DF/24-A/0265/SDC/003	99	87	00
04	METHOD BLK. DL628101	105	93	00
05	LCS DL628102	97	82	00
06	DF/24-A/0265/SDC/002 D	94	79	00
07	DF/24-A/0265/SDC/002 S	95	80	00

SURROGATES

SRG01 = Decachlorobiphenyl
SRG02 = Tetrachloro-m-xylene

QC LIMITS

(10-147)
(39-130)

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

FORM II

6721053 SW846 8081A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0I270000

WO #: DL628102

BATCH: 0271574

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
Lindane	0.00250	0.00134	54	49 - 137	
Heptachlor	0.00250	0.00219	87	57 - 124	
Heptachlor epoxide	0.00250	0.00224	90	53 - 135	
Endrin	0.00250	0.00214	86	46 - 137	
Methoxychlor	0.00250	0.00280	112	12 - 154	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FORM III

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/002

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVK310L

BATCH: 0271574

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
Lindane	0.00250	ND	0.00134	54	30 - 148	
Heptachlor	0.00250	ND	0.00217	87	25 - 135	
Heptachlor epoxide	0.00250	ND	0.00224	90	38 - 138	
Endrin	0.00250	ND	0.00225	90	28 - 148	
Methoxychlor	0.00250	ND	0.00283	113	13 - 154	

NOTES (S) :

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

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

COMMENTS:

6721055 SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/002

Level: (low/med) LOW

Lot #: C0I220208

WO #: DKVK310M

BATCH: 0271574

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENT. (mg/L)	MSD %		QC LIMITS		QUAL
			REC	RPD	RPD	REC	
Lindane	0.00250	0.00131	53	2.0	22	30 - 148	
Heptachlor	0.00250	0.00213	85	1.9	32	25 - 135	
Heptachlor epoxide	0.00250	0.00220	88	2.1	31	38 - 138	
Endrin	0.00250	0.00222	89	1.2	40	28 - 148	
Methoxychlor	0.00250	0.00280	112	1.1	29	13 - 154	

NOTES (S) :

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

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

COMMENTS:

FORM III

SW846 8081A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

6721056

DL628101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D-A6351.d

Lot Number: C0I220208

Matrix: SOLID

Extraction Method: 1311/3510

Date Extracted: 09/27/00

Date Analyzed(1): 09/29/00

Date Analyzed(2): N/A

Time Analyzed(1): 12:00

Time Analyzed(2): N/A

Instrument ID(1): G/H

Instrument ID(2): N/A

GC Column(1): DB608/1701 ID: 053 GC Column(2): N/A ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
	=====	=====	=====	=====
01	DF/24-A/0265/SDC/001	DKVJW104	09/29/00	N/A
02	DF/24-A/0265/SDC/002	DKVK310L S	09/29/00	N/A
03	DF/24-A/0265/SDC/002	DKVK310M D	09/29/00	N/A
04	DF/24-A/0265/SDC/002	DKVK3104	09/29/00	N/A
05	DF/24-A/0265/SDC/003	DKVK4104	09/29/00	N/A
06	CHECK SAMPLE	DL628102 C	09/29/00	N/A
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

6721057

**PESTICIDE
SAMPLE DATA**

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 001

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVJW104

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 11

QC Batch: 0271574

Client Sample Id: DF/24-A/0265/SDC/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

6721059

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6355.d
 Report Date: 29-Sep-2000 15:58

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6355.d
 Lab Smp Id: DKVJW104 Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 29-SEP-2000 13:51
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DKVJW104,6190-G.b,,PEST.sub,,,
 Misc Info : 220208001
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 29-Sep-2000 15:22 gc Quant Type: ESTD
 Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC085

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.260	5.260	0.000	64171	0.01714	0.001714 (aR)
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\gc4.i\6190-G.b\D-A6355.d
 Report Date: 29-Sep-2000 15:58

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/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				Compound Not Detected.		
26 Endosulfan sulfate				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	21.006	21 000	0.006	33557	0.02020	0.002020(aR)

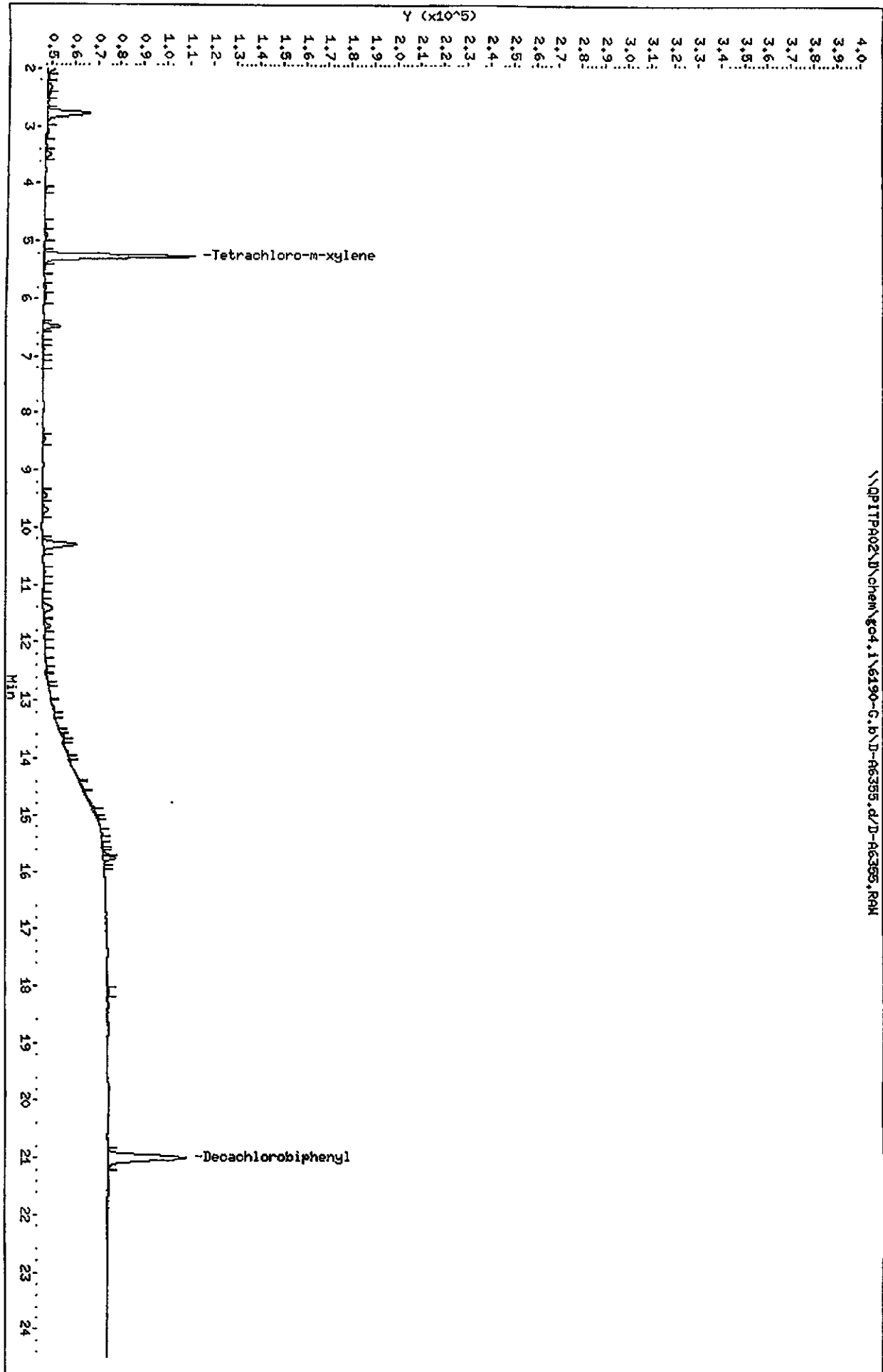
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

6721061

Data File: \\QPITPA02\chem\gc4.1\6190-G.b\D-A6355.d
Date: 29-SEP-2000 13:51
Client ID: DF/24-R/0265/SDC/00
Sample Info: DKVJML04, 6190-G.b, PEST, sub,,
Volume Injected (uL): 1.0
Column phase: DB608

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



UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK3104

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 27

QC Batch: 0271574

Client Sample Id: DF/24-A/0265/SDC/002

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

6721063

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6356.d
 Report Date: 29-Sep-2000 15:58

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6356.d
 Lab Smp Id: DKVK3104 Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 29-SEP-2000 14:19
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DKVK3104,6190-G.b,,PEST.sub,,,
 Misc Info : 220208002
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 29-Sep-2000 15:22 gc Quant Type: ESTD
 Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC085

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.260	5.260	0.000	67436	0.01801	0.001801 (aR)
5 alpha-BHC						
6 gamma-BHC (Lindane)						
7 beta-BHC						
9 Chlordane						
10 Heptachlor						
8 delta-BHC						
11 Aldrin						
12 Heptachlor epoxide						
13 gamma-Chlordane						
14 alpha-Chlordane						
15 Endosulfan I						
16 4,4'-DDE						
17 Dieldrin						
20 Endrin						

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6356.d
 Report Date: 29-Sep-2000 15:58

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/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				Compound Not Detected.		
26 Endosulfan sulfate				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	21.000	21.000	0.000	34540	0.02079	0.002079(aR)

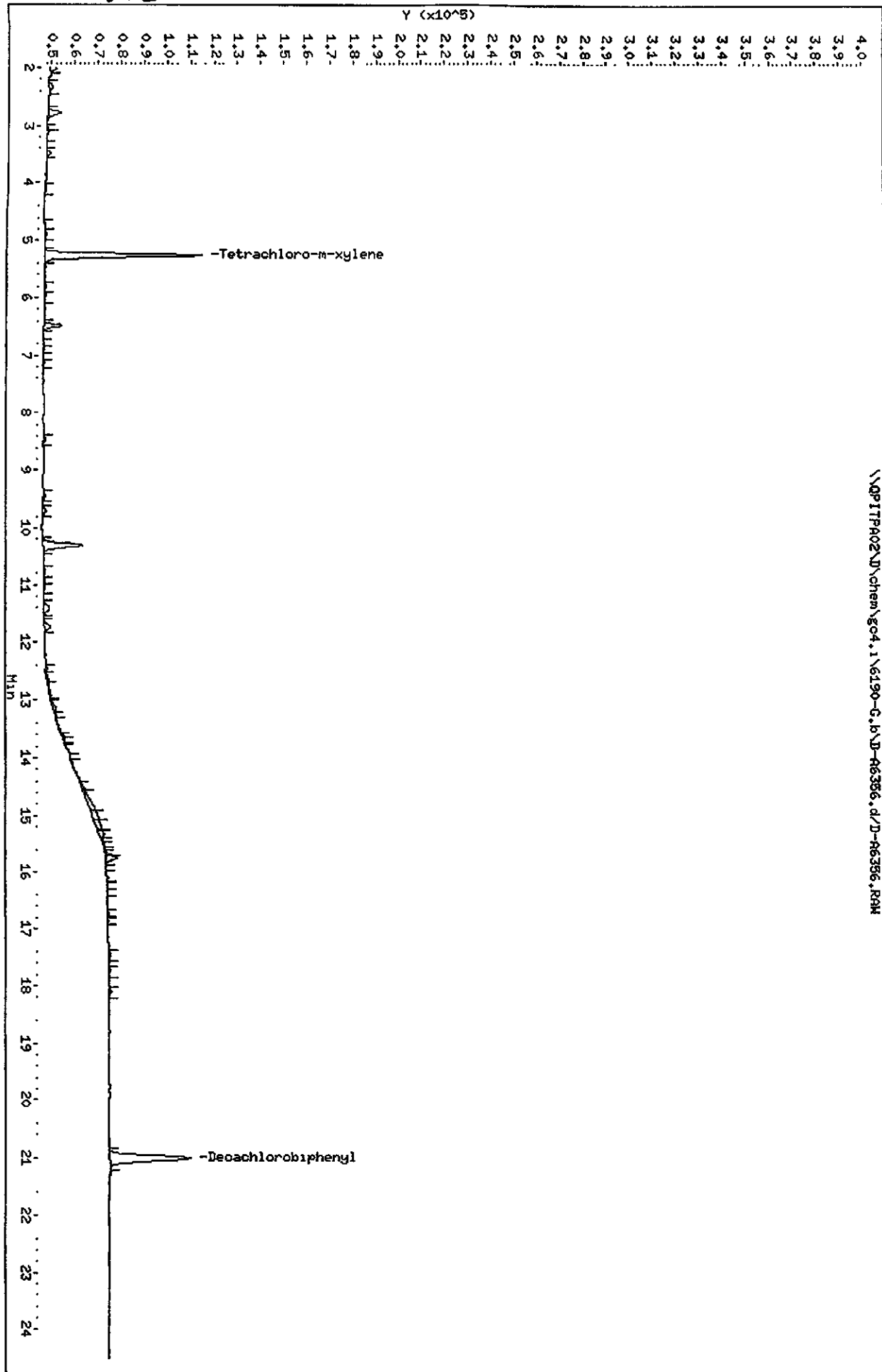
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

6721065

Data File: \\QP1TPA02\chem\gc4.1\6190-G.b\D-86356.d
 Date : 29-SEP-2000 14:19
 Client ID: JF/24-R/0265/SDC/00
 Sample Info: DK/K3104,6190-G.b,,PEST,sub,,,
 Volume Injected (uL): 1.0
 Column phase: DB608

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



UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 003

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK4104

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 15

QC Batch: 0271574

Client Sample Id: DF/24-A/0265/SDC/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

6721067

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6357.d
 Report Date: 29-Sep-2000 15:58

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6357.d
 Lab Smp Id: DKVK4104 Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 29-SEP-2000 14:47
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DKVK4104,6190-G.b,,PEST.sub,,,
 Misc Info : 220208003
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 29-Sep-2000 15:22 gc Quant Type: ESTD
 Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC085

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.260	5.260	0.000	65383	0.01746	0.001746(aR)
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\gc4.i\6190-G.b\D-A6357.d
 Report Date: 29-Sep-2000 15:58

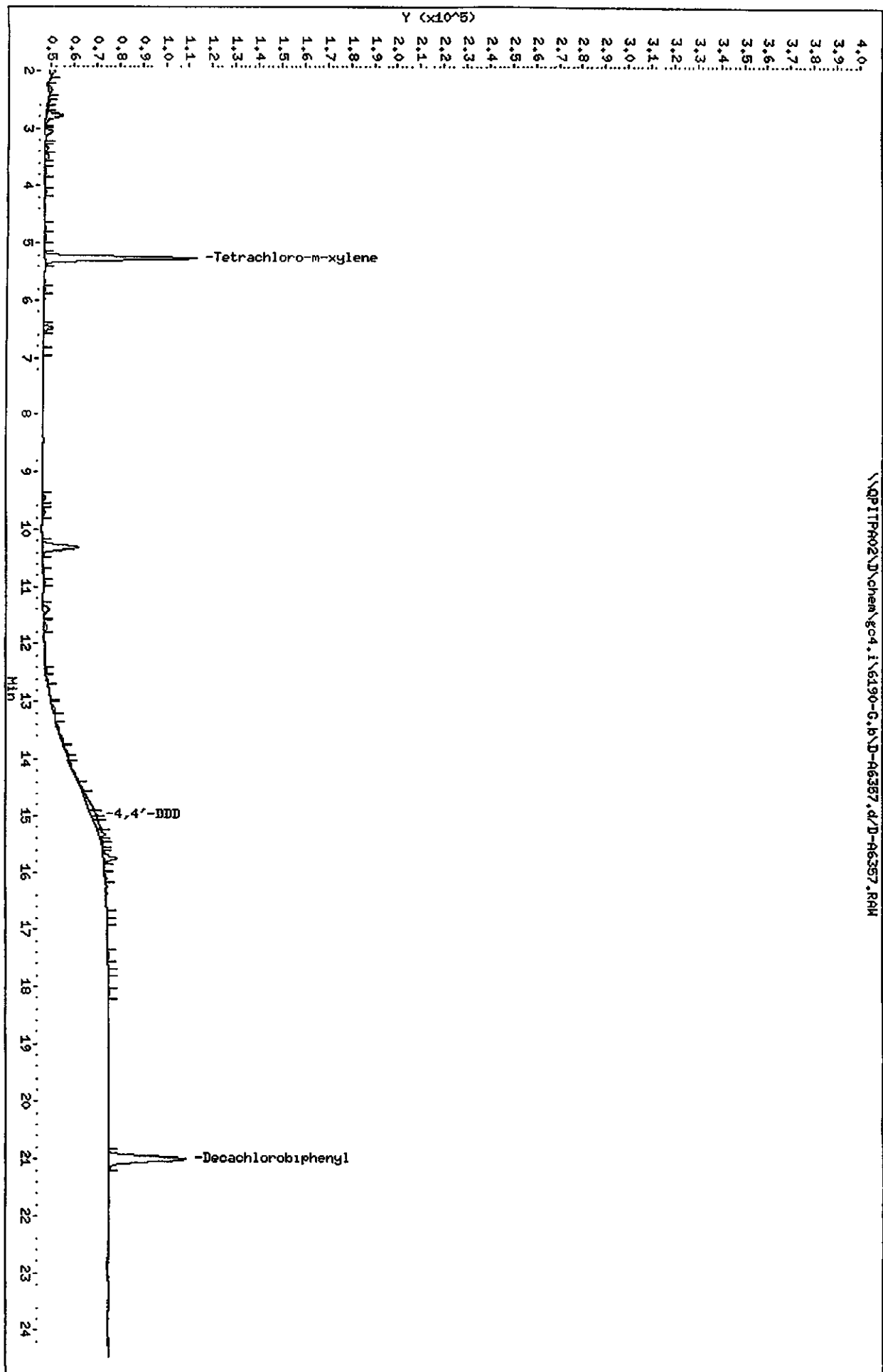
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD	14.986	14.980	0.006	2432	0.00103	0.0001032 (a)
18 Toxaphene	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 4,4'-DDT	Compound Not Detected.					
24 Endrin aldehyde	Compound Not Detected.					
26 Endosulfan sulfate	Compound Not Detected.					
25 Methoxychlor	Compound Not Detected.					
27 Endrin ketone	Compound Not Detected.					
\$ 30 Decachlorobiphenyl	21.006	21.000	0.006	32821	0.01975	0.001975 (aR)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation (BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\QPIIPA02\chem\gc4.i\6190-G.b\D-A6357.d
Date: 29-SEP-2000 14:47
Client ID: DF/24-A/0265/SDC/00
Sample Info: DKV4104,6190-G.b,,PEST.sub,,
Volume Injected (uL): 1.0
Column phase: DB608

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



**PESTICIDE
CALIBRATION DATA**

6721071

Report Date : 29-Sep-2000 15:21

7# 60
58924A
9/29/00 DB608

STL - Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
 Quant Method : ESTD Target Version : 4.04
 Last Update : 29-Sep-2000 15:19 Number of Cpnds : 31
 Data Type : GC MULTI COMP

Global Integrator : Falcon

Chromat Events Values

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

Compound	RT	RT Window	RF
\$ 1 Tetrachloro-m-xylene	5.260	5.210-5.310	3.74e+006
2 Diallate A	6.767	6.717-6.817	
3 Diallate B	7.047	6.997-7.097	
4 HEXACHLORO BENZENE	7.193	7.143-7.243	
5 alpha-BHC	7.467	7.417-7.517	4.53e+006
6 gamma-BHC (Lindane)	8.833	8.783-8.883	4.14e+006
7 beta-BHC	9.107	9.057-9.157	2.29e+006
8 delta-BHC	10.527	10.477-10.577	3.65e+006
9 Chlordane	9.467	9.417-9.517	1.13e+005
	10.080	10.030-10.130	1.77e+005
	13.333	13.283-13.383	3.30e+005
	13.660	13.610-13.710	2.47e+005
10 Heptachlor	10.053	10.003-10.103	3.08e+006
11 Aldrin	11.267	11.217-11.317	3.06e+006
12 Heptachlor epoxide	12.947	12.897-12.997	3.32e+006
13 gamma-Chlordane	13.320	13.270-13.370	3.45e+006
14 alpha-Chlordane	13.647	13.597-13.697	3.43e+006
15 Endosulfan I	13.693	13.643-13.743	3.18e+006
16 4,4'-DDE	14.120	14.070-14.170	3.31e+006
17 Dieldrin	14.247	14.197-14.297	3.32e+006
18 Toxaphene	15.013	14.963-15.063	6.37e+004
	15.160	15.110-15.210	7.62e+004
	15.513	15.463-15.563	5.83e+004
	16.627	16.577-16.677	5.31e+004

Report Date : 29-Sep-2000 15:21

61
58904A
DB608

6721072

STL - Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m

Compound	RT	RT Window	RF
19 Isodrin	12.907	12.857-12.957	
20 Endrin	14.827	14.777-14.877	2.87e+006
21 4,4'-DDD	14.980	14.930-15.030	2.36e+006
22 Endosulfan II	15.107	15.057-15.157	2.97e+006
23 4,4'-DDT	15.453	15.403-15.503	2.41e+006
24 Endrin aldehyde	15.640	15.590-15.690	2.20e+006
25 Methoxychlor	17.100	17.050-17.150	9.57e+005
26 Endosulfan sulfate	15.860	15.810-15.910	2.02e+006
27 Endrin ketone	17.480	17.430-17.530	2.31e+006
28 MIREX	17.773	17.723-17.823	
29 Kepone	15.113	15.063-15.163	
58 CHLOROBENZILATE	14.820	14.770-14.870	
\$ 30 Decachlorobiphenyl	21.000	20.950-21.050	1.66e+006

6721073

Report Date : 20-Sep-2000 12:16

6E
HP589046
DB605

STL - Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 19-SEP-2000 21:45
 End Cal Date : 20-SEP-2000 02:50
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
 Cal Date : 20-Sep-2000 12:16 eppingerd
 Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6134.d
 Level 2: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6135.d
 Level 3: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6136.d
 Level 4: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6137.d
 Level 5: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6138.d

Compound	0.00500	0.01000	0.02500	0.05000	0.10000	RRP	% RSD
Level 1	Level 2	Level 3	Level 4	Level 5			
2 Diallylate A	++++	++++	++++	++++	++++	++++	++++
3 Diallylate B	++++	++++	++++	++++	++++	++++	++++
4 HEXACHLOROBENZENE	++++	++++	++++	++++	++++	++++	++++
5 alpha-BHC	4295400	4489300	4627880	4691480	4526580	4526128	3.356
6 gamma-BHC (Lindane)	4101800	4192100	4217640	4192320	4005680	4141908	2.124
7 beta-BHC	2507800	2548400	2228320	2168400	2002570	2291098	10.129
8 delta-BHC	3310600	3668600	3588800	3848040	3815440	3646296	5.911
9 Chlordane(1)	++++	++++	112688	++++	++++	112688	0.000
(2)	++++	++++	176964	++++	++++	176964	0.000
(3)	++++	++++	330004	++++	++++	330004	0.000
(4)	++++	++++	246764	++++	++++	246764	0.000
10 Heptachlor	3158200	3148900	3046040	3060700	2997100	3082188	2.250
11 Aldrin	2892600	3113000	2941240	3175320	3153860	3055204	4.234
12 Heptachlor epoxide	3180000	3421500	3212600	3382100	3400320	3319304	3.426
13 gamma-Chlordane	3310800	3534100	3356560	3549400	3512500	3452672	3.203
14 alpha-Chlordane	3361400	3530800	3322840	3507520	3445050	3433522	2.626
15 Endosulfan I	3091400	3193600	3188800	3217520	3212660	3180796	1.617
16 4,4'-DDE	2969000	3213900	3282720	3514200	3569380	3309840	7.327
17 Dieldrin	3013600	3226400	3348680	3492940	3510510	3318426	6.206
18 Toxaphene(1)	++++	++++	63741	++++	++++	63741	0.000
(2)	++++	++++	76163	++++	++++	76163	0.000
(3)	++++	++++	58283	++++	++++	58283	0.000
(4)	++++	++++	53054	++++	++++	53054	0.000
19 Isodrin	++++	++++	++++	++++	++++	++++	++++
20 Endrin	2704200	2784200	2870160	2970120	3019720	2869680	4.520
21 4,4'-DDD	2201200	2260600	2369320	2441380	2515590	2357618	5.448

Report Date : 20-Sep-2000 12:16

6E
HP589046
DB608

6721074

STL - Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 19-SEP-2000 21:45
End Cal Date : 20-SEP-2000 02:50
Quant Method : ESTD
Origin : Disabled
Target Version : 4.04
Integrator : Falcon
Method file : \\gpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Cal Date : 20-Sep-2000 12:16 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		
22 Endosulfan II	2740800	2956900	2911080	3122120	3113720	2968924	5.325
23 4,4'-DDT	2160800	2339900	2401880	2520640	2615210	2407686	7.236
24 Endrin aldehyde	2165000	2242900	2138440	2236620	2222270	2201046	2.117
25 Methoxychlor	904200	933300	946800	995640	1006805	957349	4.501
26 Endosulfan sulfate	1806200	1949400	1935360	2150040	2249670	2018134	8.847
27 Endrin ketone	2135000	2328500	2251920	2424340	2432720	2314496	5.395
28 MIREX	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 CHLOROBENZILATE	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 1 Tetrachloro-m-xylene	4163400	4073400	3745880	3521080	3216020	3743956	10.455
\$ 30 Decachlorobiphenyl	1719200	1749300	1669600	1637900	1531620	1661524	5.083

6721075

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 4140-G

GC Column: DB608

ID: 0.53

(mm)

Init. Calib. Date(s): 09/19/00 09/20/00

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 09/19/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 2117

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.85	14.80	14.90	0.02408	0.02500	-3.7
4,4'-DDT	15.48	15.43	15.53	0.02407	0.02500	-3.7

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

~~3.97~~ 4.57%

Endrin % breakdown (1):

~~6.72~~ 5.27%

Combined % breakdown (1):

~~10.69~~

9.77%

DE
6-20-00

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

6721076

Lab Name: _____ Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 4140-G
 GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 09/19/00 09/20/00
 EPA Sample No. (PIBLK): _____ Date Analyzed : _____
 Lab Sample ID (PIBLK): _____ Time Analyzed : _____
 EPA Sample No. (PEM): _____ Date Analyzed : 09/20/00
 Lab Sample ID (PEM): EVALB Time Analyzed : 0414

PEM COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
=====	=====	=====	=====	=====	=====	=====
Endrin	14.85	14.80	14.90	0.02427	0.02500	-2.9
4,4'-DDT	15.48	15.43	15.53	0.02434	0.02500	-2.6

4,4'-DDT % breakdown (1): ~~1.04~~ ^{1.57%} Endrin % breakdown (1): ~~8.59~~ ^{6.57%}
 Combined % breakdown (1): ~~9.63~~ ^{8.07%} ⁹² ₉₂₀₀₀

6721077

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: 4140-G

GC Column: DB608

ID: 0.53

(mm)

Init. Calib. Date(s): 09/19/00 09/20/00

EPA Sample No. (PIBLK): _____

Date Analyzed : _____

Lab Sample ID (PIBLK): _____

Time Analyzed : _____

EPA Sample No. (PEM):

Date Analyzed : 09/29/00

Lab Sample ID (PEM): EVALB

Time Analyzed : 1037

PEM COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Endrin	14.83	14.78	14.88	0.02304	0.02500	-7.8
4,4'-DDT	15.46	15.40	15.50	0.02588	0.02500	3.5
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

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

~~0.80~~ / 1.1

Endrin % breakdown (1):

~~13.68~~

Combined % breakdown (1):

~~14.48~~

10.4

11.5

LM
9/29/00

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6349.d
Report Date: 29-Sep-2000 15:18

72 6721078
58704A
DB608

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 29-SEP-2000 11:04
Lab File ID: D-A6349.d Init. Cal. Date(s): 19-SEP-2000 20-SEP-2000
Analysis Type: Init. Cal. Times: 21:45 02:50
Lab Sample ID: MEDA Quant Type: ESTD
Method: \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m

COMPOUND	RRF	RF0	MIN	MAX
1 Tetrachloro-m-xylene	3743956	3746840	0.000	0.1
5 alpha-BHC	4526128	4604720	0.010	1.7
6 gamma-BHC (Lindane)	4141908	4287800	0.010	3.5
10 Heptachlor	3082188	3098920	0.010	0.5
15 Endosulfan I	3180796	3252400	0.010	2.3
17 Dieldrin	3318426	3351280	0.010	1.0
20 Endrin	2869680	2757520	0.010	-3.9
21 4,4'-DDD	2357618	2664760	0.010	13.0
23 4,4'-DDT	2407686	2536280	0.010	5.3
25 Methoxychlor	957349	1144380	0.010	19.5
30 Decachlorobiphenyl	1661524	1794600	0.010	8.0

6721079

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6350.d
Report Date: 29-Sep-2000 15:197E
58904A
06/08

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 29-SEP-2000 11:32
Lab File ID: D-A6350.d Init. Cal. Date(s): 19-SEP-2000 20-SEP-2000
Analysis Type: Init. Cal. Times: 21:45 02:50
Lab Sample ID: MEDB Quant Type: ESTD
Method: \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m

COMPOUND	RRF	RFO	MIN	MAX
			RRF	%D
11 Aldrin	3055204	2988040	0.010	-2.2
7 beta-BHC	2291098	2291400	0.010	0.0
8 delta-BHC	3646296	3796280	0.010	4.1
12 Heptachlor epoxide	3319304	3297800	0.010	-0.6
13 gamma-Chlordane	3452672	3443880	0.010	-0.3
14 alpha-Chlordane	3433522	3413520	0.010	-0.6
16 4,4'-DDE	3309840	3409800	0.010	3.0
22 Endosulfan II	2968924	2899560	0.010	-2.3
24 Endrin aldehyde	2201046	2150960	0.010	-2.3
26 Endosulfan sulfate	2018134	2320640	0.010	15.0
27 Endrin ketone	2314496	2397680	0.010	3.6

AVE = 4.2

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6358.d
 Report Date: 29-Sep-2000 16:20

7C
 58204A
 DB608

6721080

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 29-SEP-2000 15:14
 Lab File ID: D-A6358.d Init. Cal. Date(s): 19-SEP-2000 20-SEP-2000
 Analysis Type: Init. Cal. Times: 21:45 02:50
 Lab Sample ID: MEDA Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m

COMPOUND	RRF	RFO	MIN	%D	MAX
1 Tetrachloro-m-xylene	3743956	3772160	0.000	0.8	15.0
5 alpha-BHC	4526128	4634960	0.010	2.4	15.0
6 gamma-BHC (Lindane)	4141908	4336680	0.010	4.7	15.0
10 Heptachlor	3082188	3155480	0.010	2.4	15.0
15 Endosulfan I	3180796	3292240	0.010	3.5	15.0
17 Dieldrin	3318426	3411280	0.010	2.8	15.0
20 Endrin	2869680	2846040	0.010	-0.8	15.0
21 4,4'-DDD	2357618	2679520	0.010	13.7	15.0
23 4,4'-DDT	2407686	2599520	0.010	8.0	15.0
25 Methoxychlor	957349	1180440	0.010	23.3	15.0
30 Decachlorobiphenyl	1661524	1816400	0.010	9.3	15.0

6721081

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6359.d
 Report Date: 29-Sep-2000 16:20

72
 58904A
 28628

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc4.i Injection Date: 29-SEP-2000 15:42
 Lab File ID: D-A6359.d Init. Cal. Date(s): 19-SEP-2000 20-SEP-2000
 Analysis Type: Init. Cal. Times: 21:45 02:50
 Lab Sample ID: MEDB Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m

COMPOUND	RRF	RFD	MIN	MAX
=====	=====	=====	=====	=====
11 Aldrin	3055204	3085080	0.010	15.0
7 beta-BHC	2291098	2333800	0.010	15.0
8 delta-BHC	3646296	3866120	0.010	15.0
12 Heptachlor epoxide	3319304	3425000	0.010	15.0
13 gamma-Chlordane	3452672	3499040	0.010	15.0
14 alpha-Chlordane	3433522	3490960	0.010	15.0
16 4,4'-DDE	3309840	3493400	0.010	15.0
22 Endosulfan II	2968924	2980240	0.010	15.0
24 Endrin aldehyde	2201046	2232840	0.010	15.0
26 Endosulfan sulfate	2018134	2354120	0.010	15.0
27 Endrin ketone	2314496	2448440	0.010	15.0

AVE = 53

8D
PESTICIDE ANALYTICAL SEQUENCE

6721082

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C0I220208
GC Column: DB608 ID: 0.53 (mm) Init. Calib. Date(s): 09/19/00 09/20/00
Instrument ID: GC4

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
EPA		LAB		DATE	
SAMPLE NO.		SAMPLE ID		ANALYZED	
=====		=====		=====	
01		EVALB		09/19/00	2117
02		MEDTOX		09/19/00	2145
03		MEDCHLOR		09/19/00	2213
04		LOWA		09/19/00	2240
05		MLOWA		09/19/00	2308
06		MEDA		09/19/00	2336
07		MHIGHA		09/20/00	0004
08		HIGHA		09/20/00	0031
09		LOWB		09/20/00	0059
10		MLOWB		09/20/00	0127
11		MEDEB		09/20/00	0155
12		MHIGHB		09/20/00	0223
13		HIGHB		09/20/00	0250
14		2ND A		09/20/00	0318
15		2ND B		09/20/00	0346
16		EVALB		09/20/00	0414
17		EVALB		09/29/00	1037
18		MEDA		09/29/00	1104
19		MEDEB		09/29/00	1132
20	PBLK	DL628101		09/29/00	1200
21	LCS	DL628102		09/29/00	1228
22	DF/24-A/0265	DKVK310L		09/29/00	1255
23	DF/24-A/0265	DKVK310M		09/29/00	1323
24	DF/24-A/0265	DKVJW104		09/29/00	1351
25	DF/24-A/0265	DKVK3104		09/29/00	1419
26	DF/24-A/0265	DKVK4104		09/29/00	1447
27		MEDA		09/29/00	1514
28		MEDEB		09/29/00	1542
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.

6721083

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6126.d
Report Date: 20-Sep-2000 12:20

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6126.d
Lab Smp Id: EVALB
Inj Date : 19-SEP-2000 21:17
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,6190-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.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	5.286	5.293	-0.007	73875	0.01973	0.01973 (R)
16 4,4'-DDE	14.140	14.140	0.000	1269	<0.0	0.0003834
20 Endrin	14.846	14.846	0.000	69115	0.02408	0.02408 (M)
21 4,4'-DDD	15.013	15.006	0.007	1438	0.00061	0.0006099 (M)
23 4,4'-DDT	15.480	15.480	0.000	57964	0.02407	0.02407 (M)
24 Endrin aldehyde	15.673	15.666	0.007	1786	<0.0	0.0008114 (M)
27 Endrin ketone	17.526	17.526	0.000	2009	<0.0	0.0008680
\$ 30 Decachlorobiphenyl	21.066	21.073	-0.007	33033	0.01988	0.01988 (R)

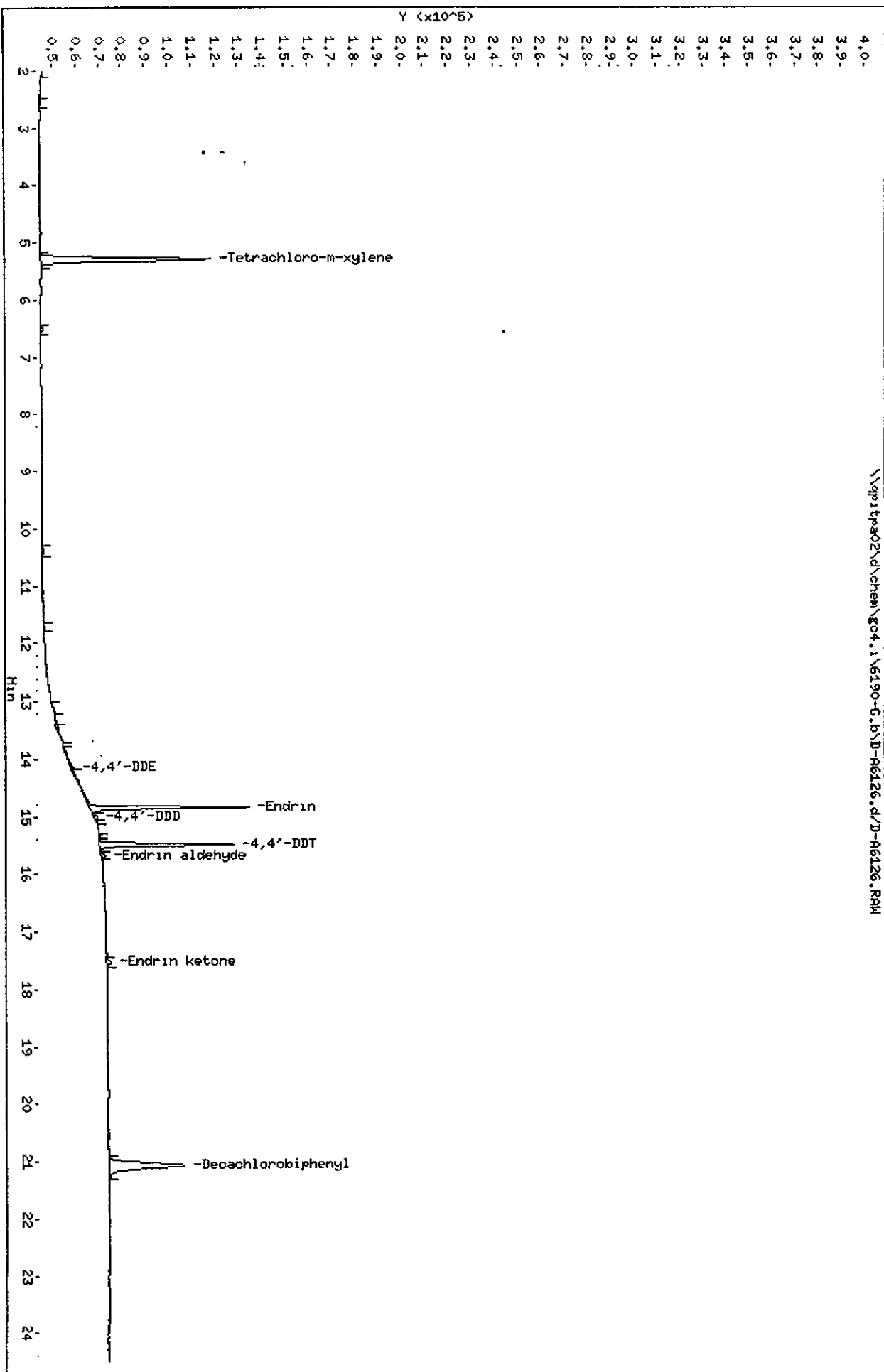
QC Flag Legend

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

DDT 4.57%
ENDRIN 5.27%

Data File: \\qpt1pao2\chem\gc4.1\6190-G.b\D-66126.d
Date: 19-SEP-2000 21:17
Client ID:
Sample Info: EVALB,6190-G.b,EVALBR,suf,3,1
Column Phase: DB608

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



6721085

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6127.d
Report Date: 20-Sep-2000 12:21

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6127.d
Lab Smp Id: MEDTOX
Inj Date : 19-SEP-2000 21:45
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDTOX,6190-G.b,,1-TOX.sub,,1,3
Misc Info : 190-98-12
Comment :
Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 21:45 Cal File: D-A6127.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

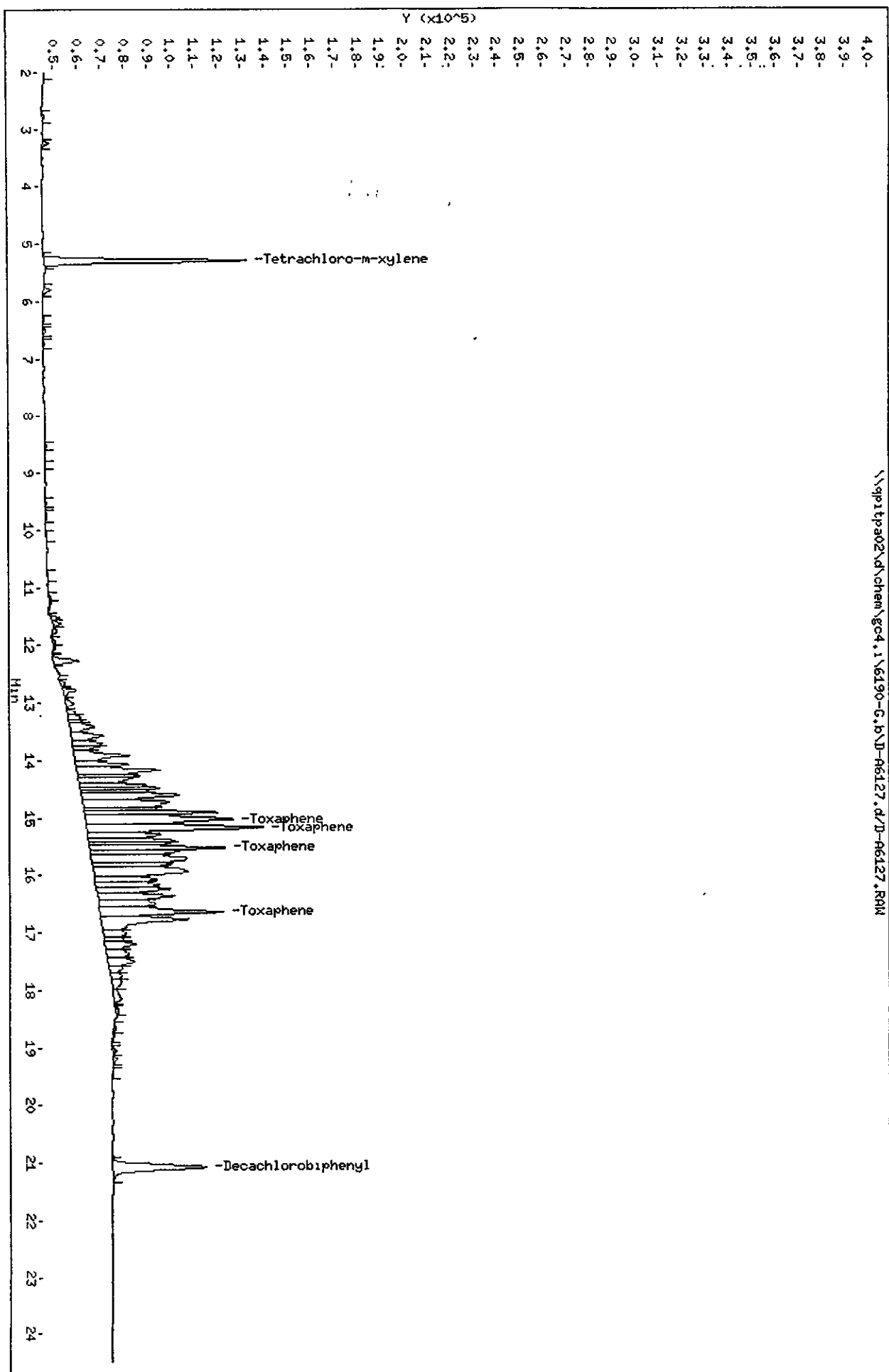
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT	ON-COL
					(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
18 Toxaphene	15.020	15.020	0.000	63741	1.00000	1.000(M)
\$ 1 Tetrachloro-m-xylene	5.286	5.293	-0.007	87332	0.02500	0.02500(M)
\$ 30 Decachlorobiphenyl	21.073	21.073	0.000	39903	0.02500	0.02500(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\pp1tpa02\chem\gc4.1\6130-G.b\D-06127.d
Date: 19-SEP-2000 21:45
Client ID:
Sample Info: HEDTOX, 6130-G.b, 1-TOX, sub, 1,3
Column phase: DB608

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



6721087

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6128.d
Report Date: 20-Sep-2000 12:21

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6128.d
Lab Smp Id: MEDCHLOR
Inj Date : 19-SEP-2000 22:13
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDCHLOR,6190-G.b,,2-CHLO.sub,,1,3
Misc Info : 190-90-4
Comment :
Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 22:13 Cal File: D-A6128.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

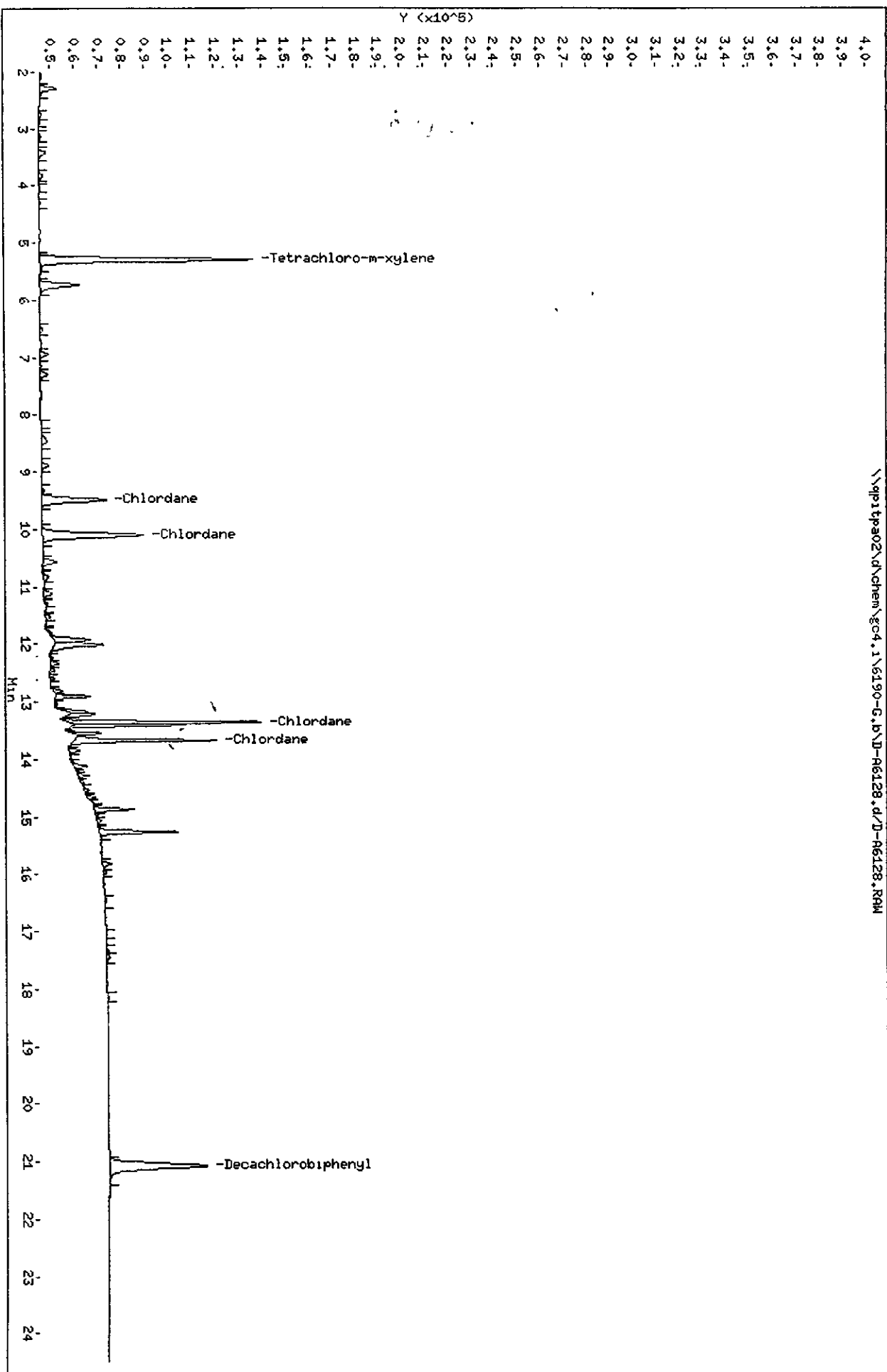
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT	ON-COL
					(ng)	(ng)
9 Chlordane	9.480	9.480	0.000	28172	0.25000	0.2500(M)
\$ 1 Tetrachloro-m-xylene	5.286	5.293	-0.007	91602	0.02500	0.02500(M)
\$ 30 Decachlorobiphenyl	21.073	21.073	0.000	41890	0.02500	0.02500(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\pp1tpa02\chem\gc04.1\6190-G,b\D-66128.d
Date: 19-SEP-2000 22:13
Client ID:
Sample Info: MEDCHLOR,6190-G,b,2-CHLO,sub,1,3
Column phase: DB608

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



6721089

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6129.d
Report Date: 20-Sep-2000 12:21

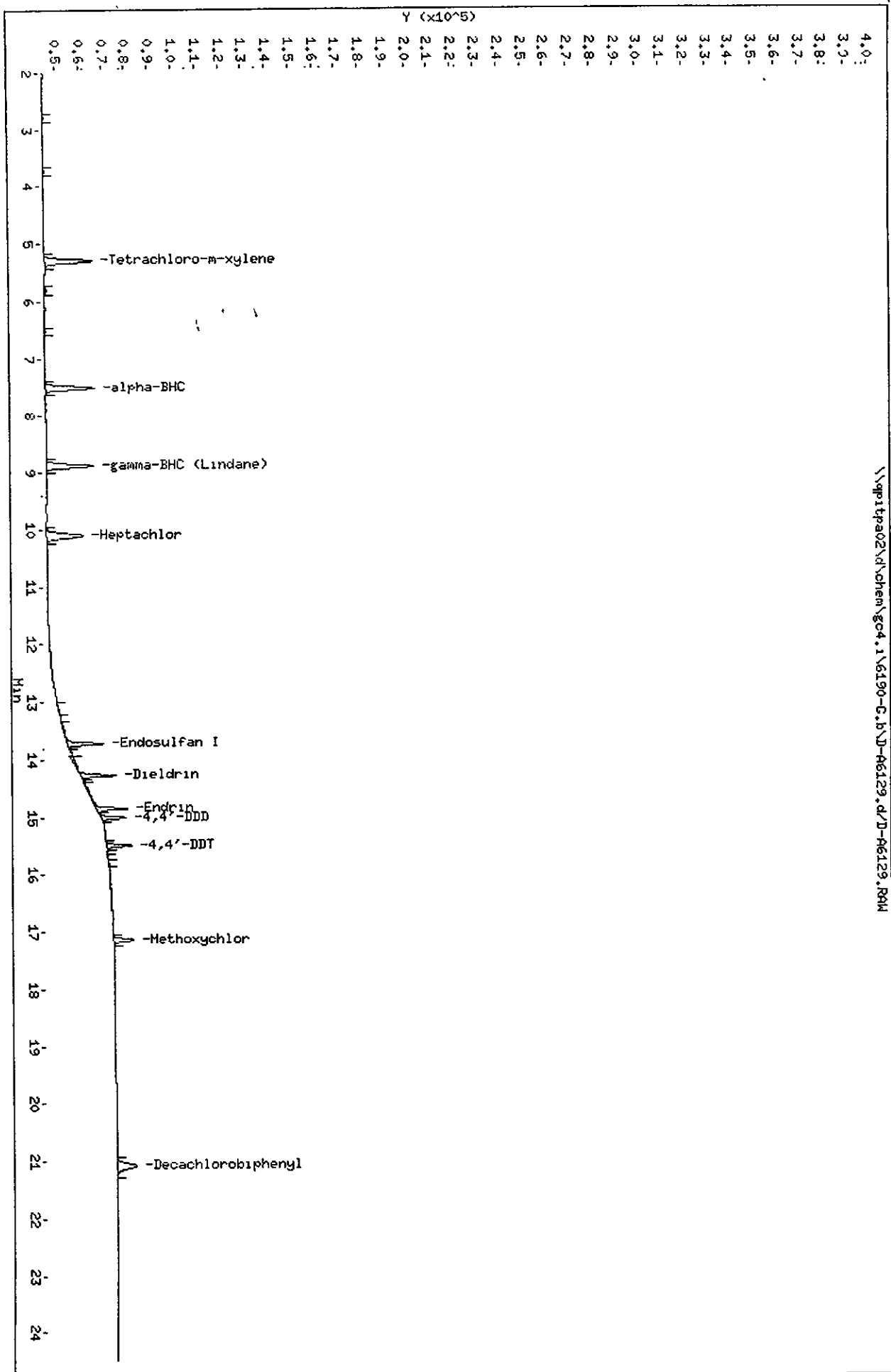
STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6129.d
Lab Smp Id: LOWA
Inj Date : 19-SEP-2000 22:40
Operator : 1891
Smp Info : LOWA,6190-G.b,,3-INDA.sub,,1,1
Misc Info : 190-100-6
Comment :
Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 22:40 Cal File: D-A6129.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	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.293	5.293	0.000	20817	0.00500	0.005319
5 alpha-BHC	7.506	7.506	0.000	21477	0.00500	0.005000
6 gamma-BHC (Lindane)	8.873	8.873	0.000	20509	0.00500	0.005000
10 Heptachlor	10.100	10.100	0.000	15791	0.00500	0.005000
15 Endosulfan I	13.720	13.720	0.000	15457	0.00500	0.005000
17 Dieldrin	14.266	14.266	0.000	15068	0.00500	0.005000
20 Endrin	14.846	14.846	0.000	13521	0.00500	0.005000
21 4,4'-DDD	15.006	15.006	0.000	11006	0.00500	0.005000
23 4,4'-DDT	15.480	15.480	0.000	10804	0.00500	0.005000
25 Methoxychlor	17.133	17.133	0.000	9042	0.01000	0.010000
\$ 30 Decachlorobiphenyl	21.073	21.073	0.000	8596	0.00500	0.005064

Data File: \\pptipa02\chem\gc4.1\6190-G.b\D-66129.d
Date: 19-SEP-2000 22:40
Client ID:
Sample Info: L049,6190-G.b,3-INDA,sub,1.1
Column Phase: DB608

Instrument: GC4.1
Operator: 1891
Column diameter: 0.53



6721091

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6130.d
Report Date: 20-Sep-2000 12:21

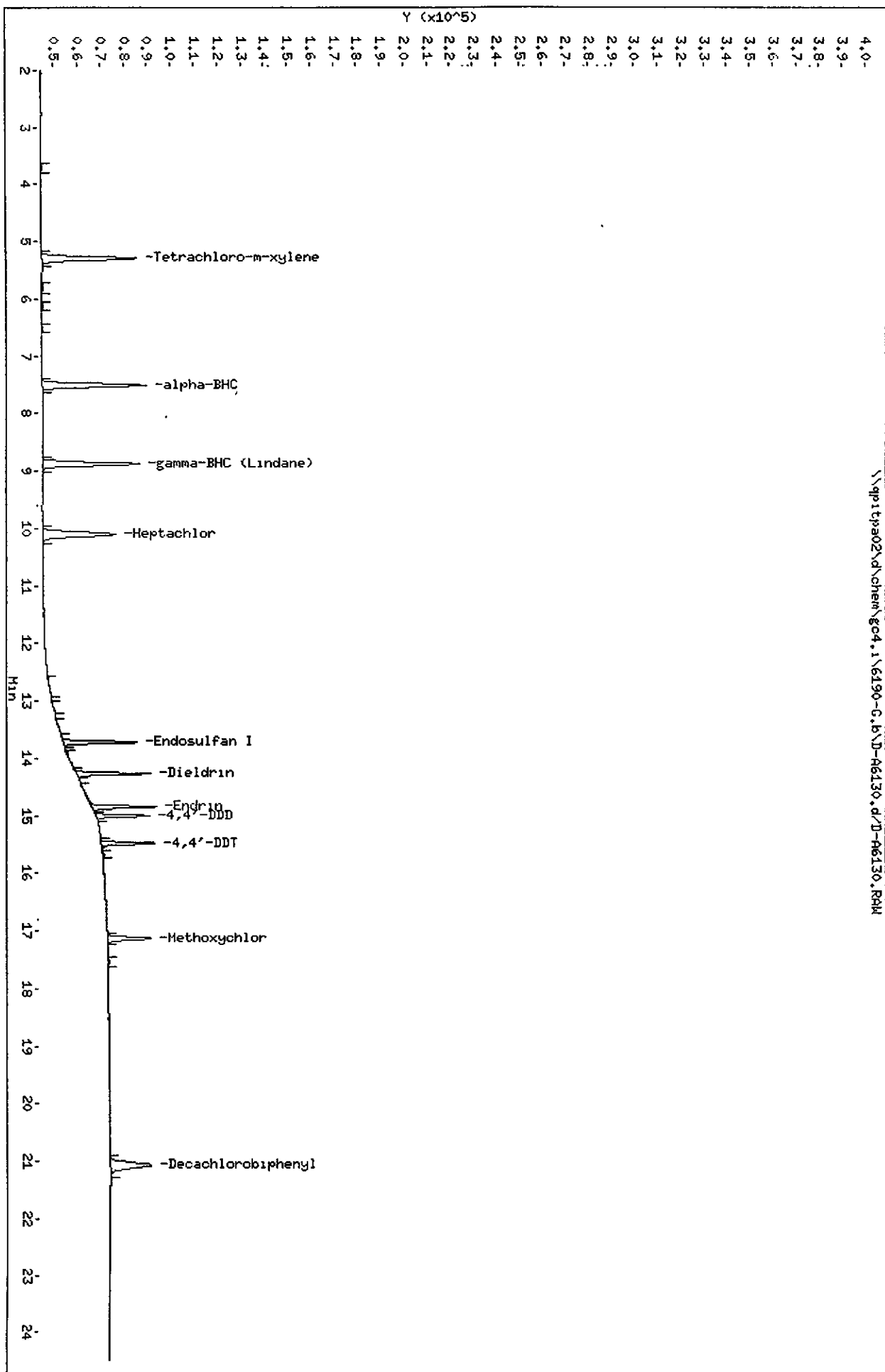
STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6130.d
Lab Smp Id: MLOWA
Inj Date : 19-SEP-2000 23:08
Operator : 1891 Inst ID: gc4.i
Smp Info : MLOWA,6190-G.b,,3-INDA.sub,,1,2
Misc Info : 190-100-7
Comment :
Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 23:08 Cal File: D-A6130.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	5.293	5.293	0.000	40734	0.01000	0.01027
5 alpha-BHC	7.506	7.506	0.000	44893	0.01000	0.01022
6 gamma-BHC (Lindane)	8.873	8.873	0.000	41921	0.01000	0.01011
10 Heptachlor	10.100	10.100	0.000	31489	0.01000	0.009985
15 Endosulfan I	13.720	13.720	0.000	31936	0.01000	0.01016
17 Dieldrin	14.266	14.266	0.000	32264	0.01000	0.01034
20 Endrin	14.846	14.846	0.000	27842	0.01000	0.01014
21 4,4'-DDD	15.006	15.006	0.000	22606	0.01000	0.01013
23 4,4'-DDT	15.480	15.480	0.000	23399	0.01000	0.01040
25 Methoxychlor	17.133	17.133	0.000	18666	0.02000	0.02032
\$ 30 Decachlorobiphenyl	21.073	21.073	0.000	17493	0.01000	0.01020

Data File: \\qpitpa02\chem\gc4.1\6130-G.b.D-A6130.d
Date: 19-SEP-2000 23:08
Client ID:
Sample Info: HLOM6,6130-G.b.,3-INDA,sub.,1,2
Column phase: DB608

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



6721093

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6131.d
Report Date: 20-Sep-2000 12:21

STL - Pittsburgh

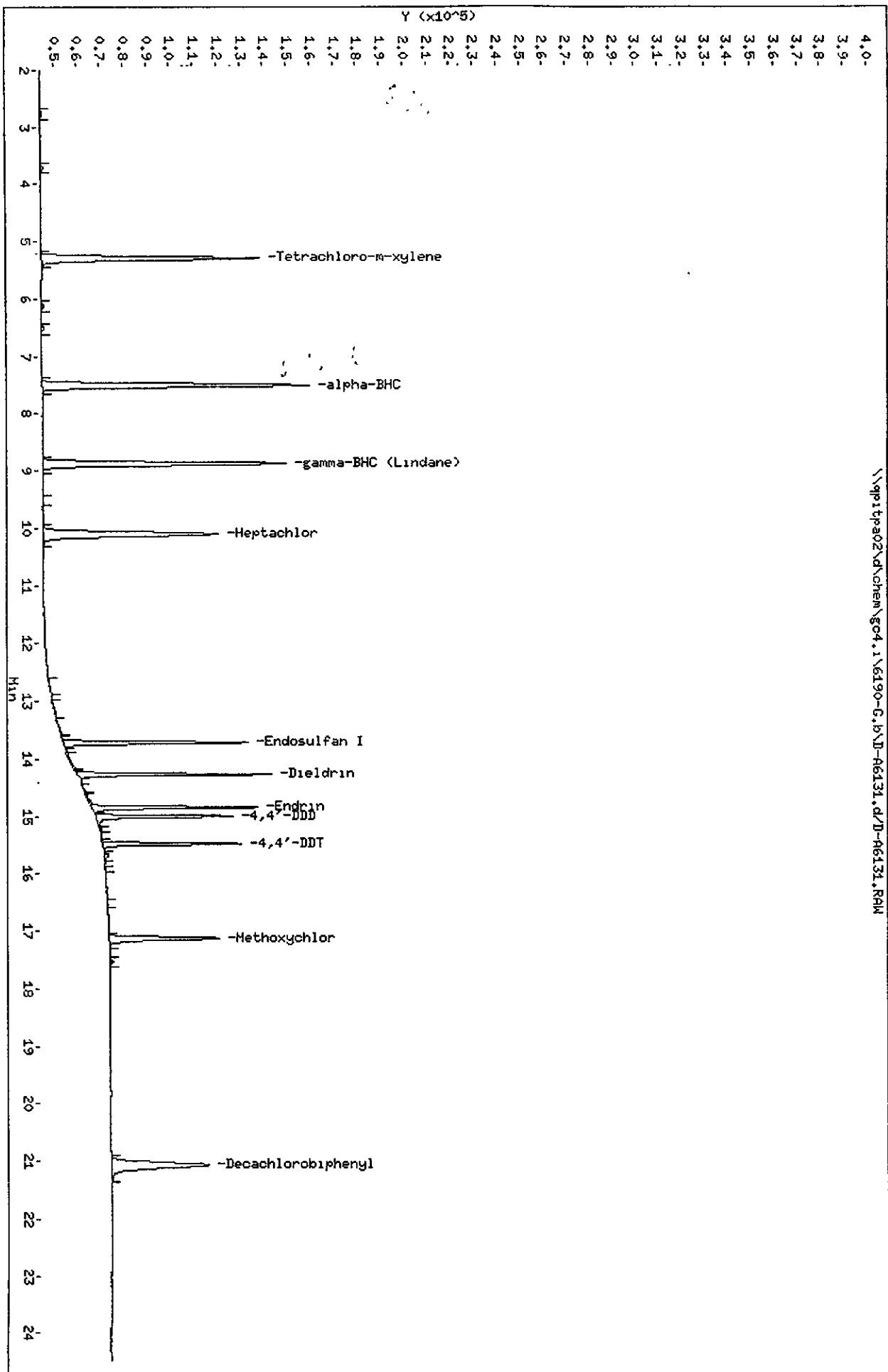
Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6131.d
Lab Smp Id: MEDA
Inj Date : 19-SEP-2000 23:36
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDA,6190-G.b,,3-INDA.sub,,1,3
Misc Info : 190-100-8
Comment :
Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 19-SEP-2000 23:36 Cal File: D-A6131.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	ON-COL
					(ng)	(ng)
\$ 1 Tetrachloro-m-xylene	5.293	5.293	0.000	93647	0.02500	0.02344
5 alpha-BHC	7.506	7.506	0.000	115697	0.02500	0.02588
6 gamma-BHC (Lindane)	8.873	8.873	0.000	105441	0.02500	0.02528
10 Heptachlor	10.100	10.100	0.000	76151	0.02500	0.02442
15 Endosulfan I	13.720	13.720	0.000	79720	0.02500	0.02524
17 Dieldrin	14.266	14.266	0.000	83717	0.02500	0.02619
20 Endrin	14.846	14.846	0.000	71754	0.02500	0.02575
21 4,4'-DDD	15.006	15.006	0.000	59233	0.02500	0.02601
23 4,4'-DDT	15.480	15.480	0.000	60047	0.02500	0.02610
25 Methoxychlor	17.133	17.133	0.000	47340	0.05000	0.05101
\$ 30 Decachlorobiphenyl	21.073	21.073	0.000	41740	0.02500	0.02437

6721094

Data File: \\pptp02\chem\gc4.1\6190-G.b\D-A6131.d
Date: 19-SEP-2000 23:36
Client ID:
Sample Info: HEDA, 6190-G.b, 3-INDA, sub, 1,3
Column Phase: DB608

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



6721095

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6132.d
 Report Date: 20-Sep-2000 12:21

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6132.d
 Lab Smp Id: MHIGHA
 Inj Date : 20-SEP-2000 00:04
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MHIGHA, 6190-G.b, , 3-INDA.sub, , 1, 4
 Misc Info : 190-100-9
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
 Cal Date : 20-SEP-2000 00:04 Cal File: D-A6132.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

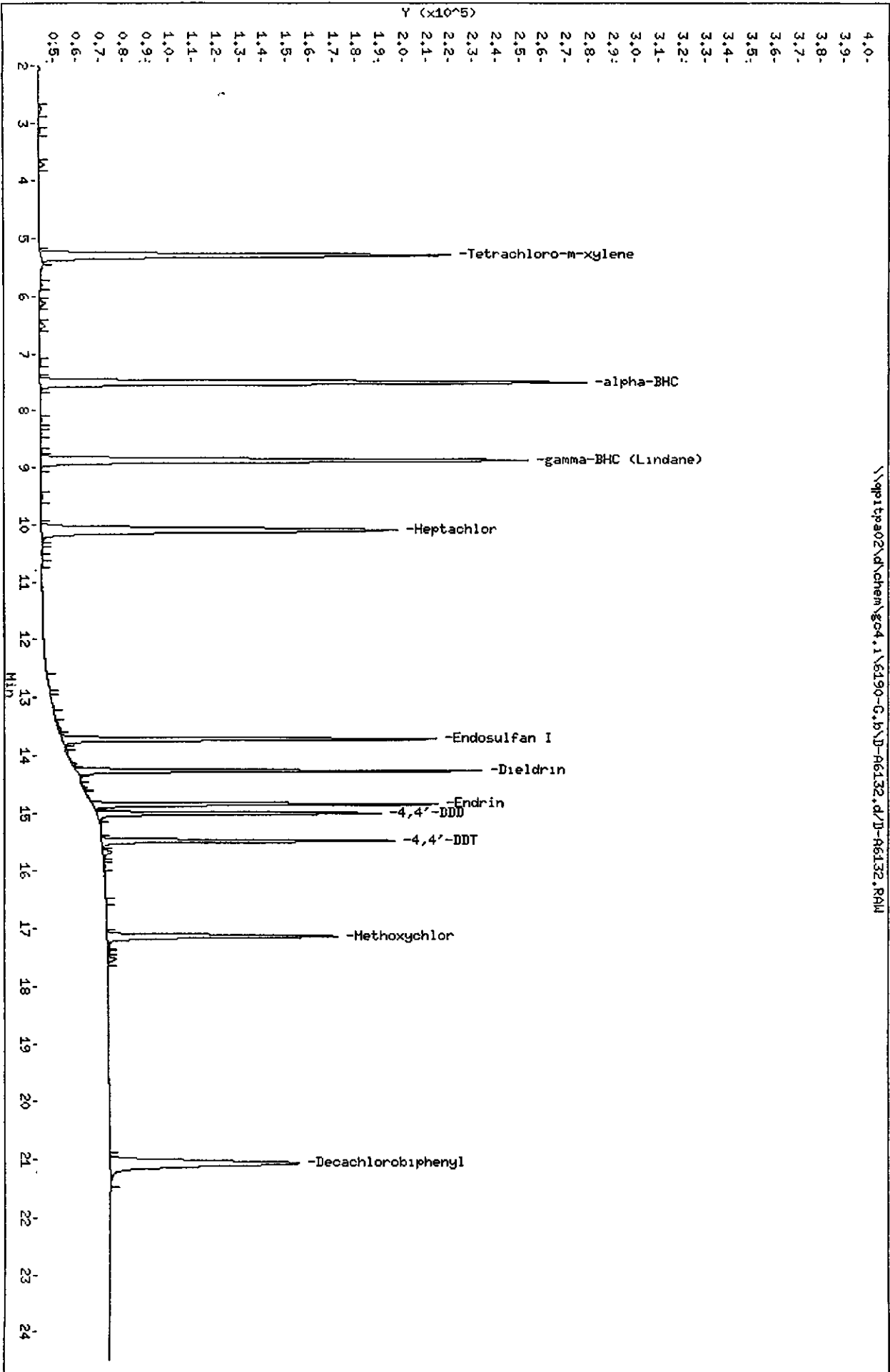
Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.286	5.293	-0.007	176054	0.05000	0.04542 (M)
5 alpha-BHC	7.506	7.506	0.000	234574	0.05000	0.05183 (M)
6 gamma-BHC (Lindane)	8.873	8.873	0.000	209616	0.05000	0.05020 (M)
10 Heptachlor	10.100	10.100	0.000	153035	0.05000	0.04931 (M)
15 Endosulfan I	13.720	13.720	0.000	160876	0.05000	0.05070 (M)
17 Dieldrin	14.266	14.266	0.000	174647	0.05000	0.05340 (M)
20 Endrin	14.846	14.846	0.000	148506	0.05000	0.05244 (M)
21 4,4'-DDD	15.006	15.006	0.000	122069	0.05000	0.05266 (M)
23 4,4'-DDT	15.480	15.480	0.000	126032	0.05000	0.05350 (M)
25 Methoxychlor	17.133	17.133	0.000	99564	0.10000	0.1054 (M)
\$ 30 Decachlorobiphenyl	21.073	21.073	0.000	81895	0.05000	0.04834 (M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\qpitpa02\dl\chem\gc4.1\6190-G.b\J-#6132.d
Date: 20-SEP-2000 00:04
Client ID:
Sample Info: MHIGH,6190-G.b,3-INDA.sub,1,4
Column phase: DB608

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



6721097

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6133.d
Report Date: 20-Sep-2000 12:22

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6133.d
Lab Smp Id: HIGHA
Inj Date : 20-SEP-2000 00:31
Operator : 1891 Inst ID: gc4.i
Smp Info : HIGHA,6190-G.b,,3-INDA.sub,,1,5
Misc Info : 190-100-10
Comment :
Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 20-SEP-2000 00:31 Cal File: D-A6133.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

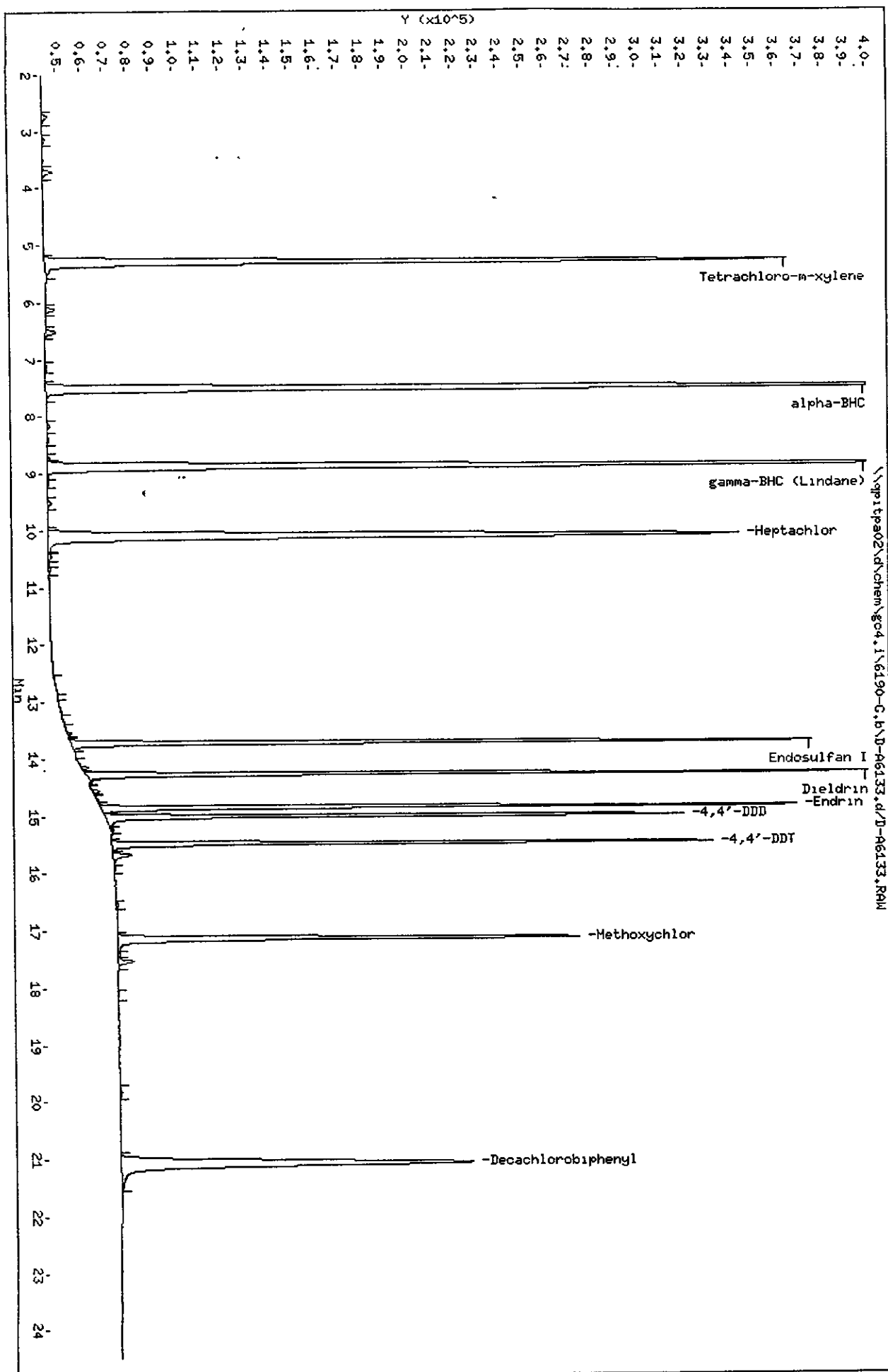
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT	ON-COL
					(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.286	5 293	-0.007	321602	0.10000	0 08590
5 alpha-BHC	7.506	7 506	0 000	452658	0.10000	0 1000(A)
6 gamma-BHC (Lindane)	8.873	8.873	0 000	400568	0.10000	0 09671
10 Heptachlor	10.100	10 100	0 000	299710	0 10000	0.09724
15 Endosulfan I	13.720	13.720	0.000	321266	0.10000	0.1010(A)
17 Dieldrin	14 266	14.266	0.000	351051	0.10000	0.1058(A)
20 Endrin	14.846	14 846	0 000	301972	0.10000	0 1052(A)
21 4,4'-DDD	15.006	15.006	0 000	251559	0.10000	0.1067(A)
23 4,4'-DDT	15 480	15 480	0.000	261521	0 10000	0 1086(A)
25 Methoxychlor	17.133	17 133	0 000	201361	0.20000	0 2103(A)
\$ 30 Decachlorobiphenyl	21 073	21.073	0.000	153162	0.10000	0.09218

QC Flag Legend

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

Data File: \\qptpa02\chem\gc4.1\6190-G.b\D-A6133.d
Date: 20-SEP-2000 00:31
Client ID:
Sample Info: HIGH, 6190-G.b, 3-IND, sub, 1.5
Column phase: DB608

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



6721099

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6134.d
 Report Date: 20-Sep-2000 12:22

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6134.d
 Lab Smp Id: LOWB
 Inj Date : 20-SEP-2000 00:59
 Operator : 1891
 Smp Info : LOWB,6190-G.b,,4-INDB.sub,,1,1
 Misc Info : 190-100-12
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
 Cal Date : 20-SEP-2000 00:59 Cal File: D-A6134.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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.306	11.313	-0.007	14463	0.00500	0.005000
7 beta-BHC	9.153	9.153	0.000	12539	0.00500	0.005000
8 delta-BHC	10.573	10.573	0.000	16553	0.00500	0.005000
12 Heptachlor epoxide	12.973	12.973	0.000	15900	0.00500	0.005000
13 gamma-Chlordane	13.346	13.346	0.000	16554	0.00500	0.005000
14 alpha-Chlordane	13.666	13.666	0.000	16807	0.00500	0.005000
16 4,4'-DDE	14.140	14.140	0.000	14845	0.00500	0.005000
22 Endosulfan II	15.126	15.126	0.000	13704	0.00500	0.005000
24 Endrin aldehyde	15.666	15.666	0.000	10825	0.00500	0.005000
26 Endosulfan sulfate	15.886	15.886	0.000	9031	0.00500	0.005000
27 Endrin ketone	17.526	17.526	0.000	10675	0.00500	0.005000

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6135.d
 Report Date: 20-Sep-2000 12:22

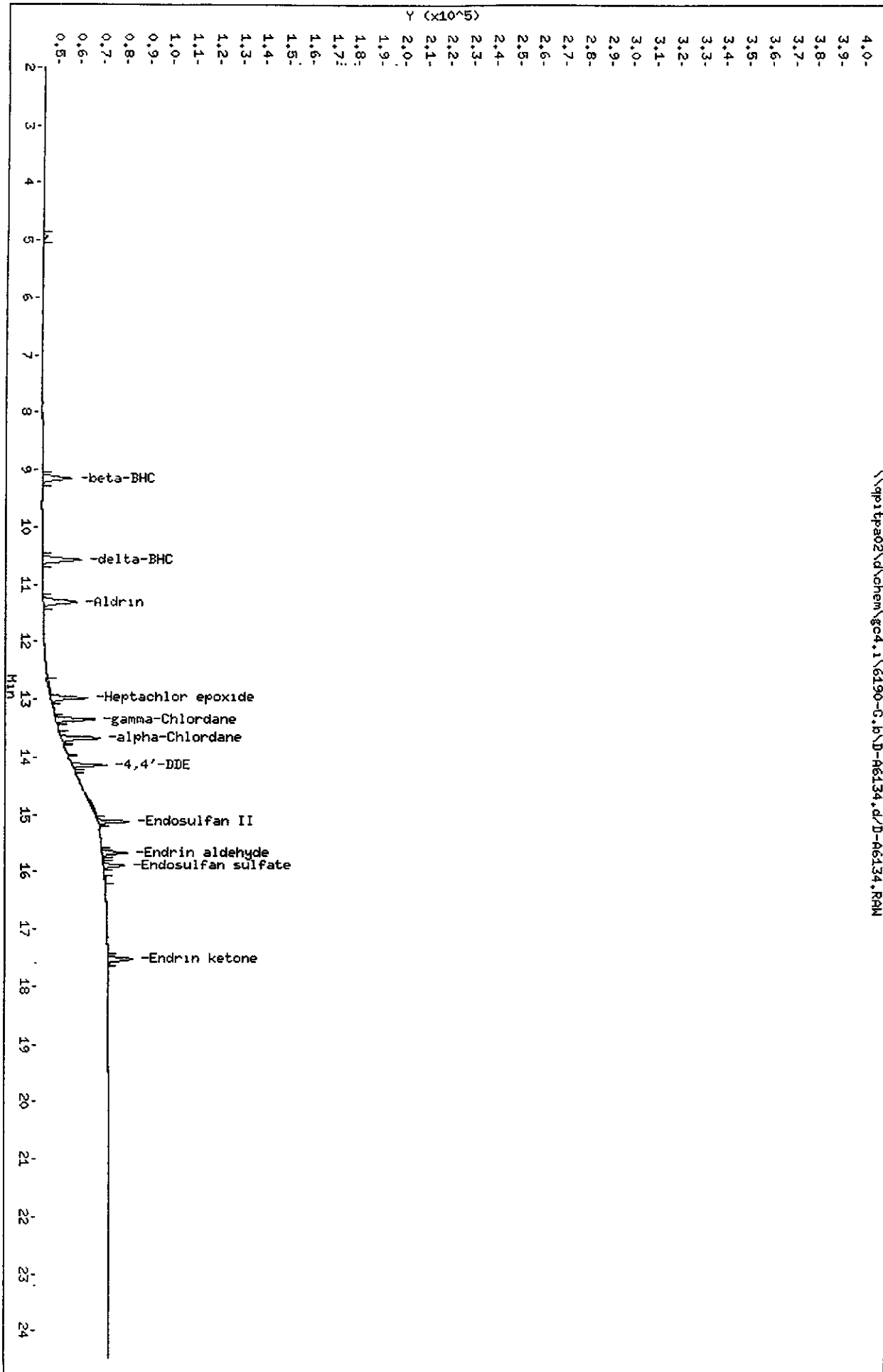
STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6135.d
 Lab Smp Id: MLOWB
 Inj Date : 20-SEP-2000 01:27
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MLOWB,6190-G.b,,4-INDB.sub,,1,2
 Misc Info : 190-100-13
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
 Cal Date : 20-SEP-2000 01:27 Cal File: D-A6135.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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.313	11.313	0.000	31130	0.01000	0 01037
7 beta-BHC	9.153	9.153	0.000	25484	0.01000	0 01008
8 delta-BHC	10.573	10.573	0.000	36686	0.01000	0 01051
12 Heptachlor epoxide	12.973	12.973	0.000	34215	0.01000	0 01036
13 gamma-Chlordane	13.346	13.346	0.000	35341	0.01000	0 01033
14 alpha-Chlordane	13.673	13.666	0.007	35308	0.01000	0.01024
16 4,4'-DDE	14.140	14.140	0.000	32139	0.01000	0.01040
22 Endosulfan II	15.126	15.126	0.000	29569	0.01000	0.01038
24 Endrin aldehyde	15.666	15.666	0.000	22429	0.01000	0.01018
26 Endosulfan sulfate	15.886	15.886	0.000	19494	0 01000	0.01038
27 Endrin ketone	17.526	17.526	0.000	23285	0 01000	0.01043

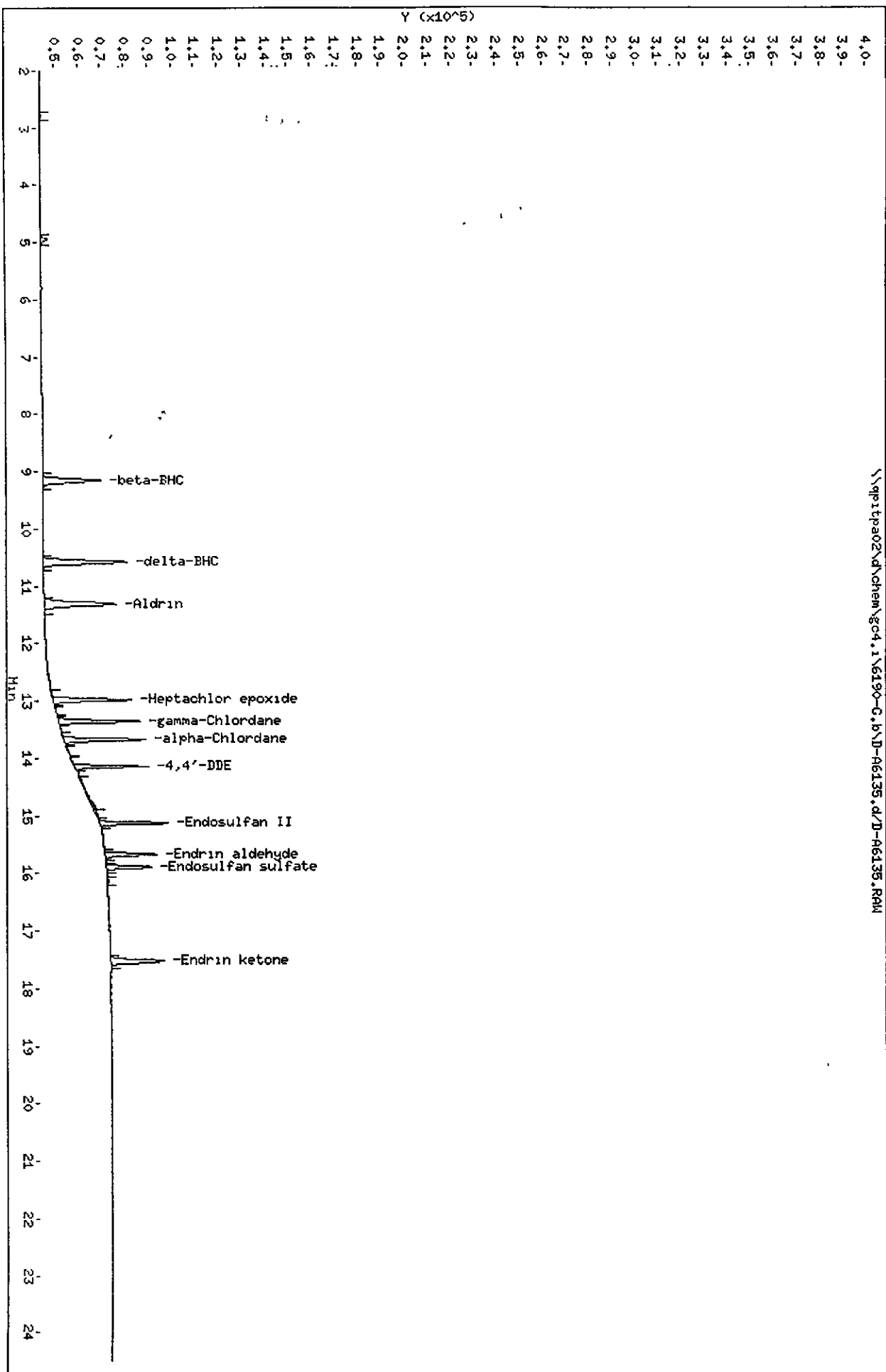
Data File: \\qpltpa02\chem\gc4.1\6190-G.b\D-A6134.d
Date : 20-SEP-2000 00:59
Client ID:
Sample Info: LQMB,6190-G.b,4-INDB,sud,1,1
Column phase: DB608

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



Data File: \\ppitpa02\nd\chem\gc4.1\6190-G.b\D-A6135.d
Date: 20-SEP-2000 01:27
Client ID:
Sample Info: HLOMB,6190-G.b,4-INDB,sub,1,2
Column phase: DB608

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



6721103

Data File: \\gpitpa02\d\chem\gc4.i\6190-G.b\D-A6136.d
Report Date: 20-Sep-2000 12:22

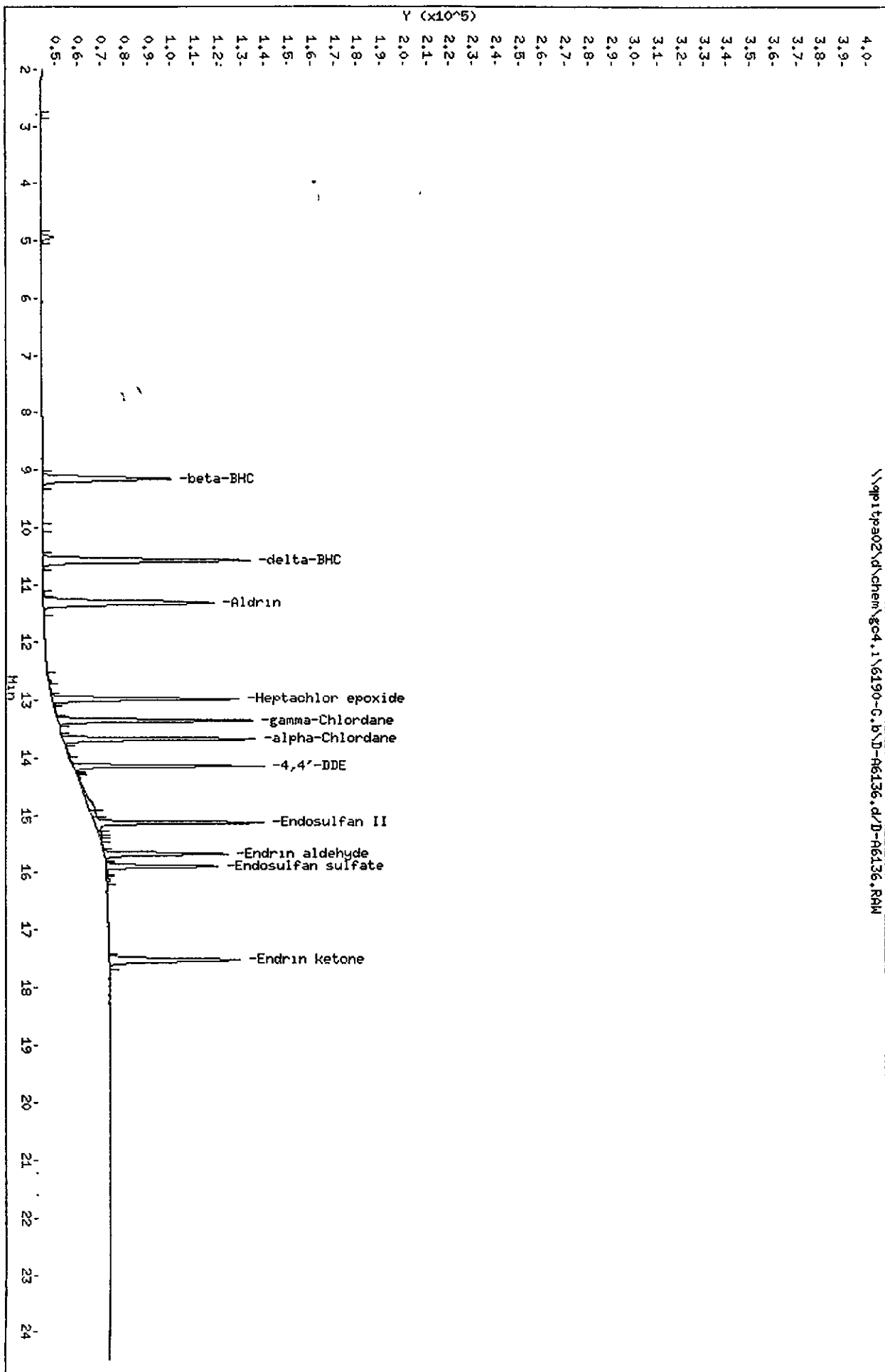
STL - Pittsburgh

Data file : \\gpitpa02\d\chem\gc4.i\6190-G.b\D-A6136.d
Lab Smp Id: MEDB
Inj Date : 20-SEP-2000 01:55
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,6190-G.b,,4-INDB.sub,,1,3
Misc Info : 190-100-14
Comment :
Method : \\gpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 20-SEP-2000 01:55 Cal File: D-A6136.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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11 313	11 313	0.000	73531	0 02500	0 02466
7 beta-BHC	9 153	9 153	0.000	55708	0.02500	0.02294
8 delta-BHC	10 573	10 573	0 000	89720	0 02500	0.02547
12 Heptachlor epoxide	12.973	12 973	0 000	80315	0 02500	0 02455
13 gamma-Chlordane	13.346	13 346	0.000	83914	0.02500	0 02468
14 alpha-Chlordane	13 666	13.666	0 000	83071	0 02500	0 02440
16 4,4'-DDE	14 140	14.140	0 000	82068	0 02500	0.02601
22 Endosulfan II	15.126	15.126	0.000	72777	0 02500	0.02536
24 Endrin aldehyde	15.666	15 666	0.000	53461	0 02500	0 02450
26 Endosulfan sulfate	15.886	15.886	0.000	48384	0 02500	0 02550
27 Endrin ketone	17.526	17 526	0.000	56298	0.02500	0 02515

Data File: \\qpi1tpa02\chem\gc04.1\6190-G.b\D-A6136.d
Date: 20-SEP-2000 01:55
Client ID:
Sample Info: MEDB,6190-G.b,,4-INDB.sub,1,3
Column phase: DB608

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



6721105

Data File: \\gpitpa02\d\chem\gc4.i\6190-G.b\D-A6137.d
Report Date: 20-Sep-2000 12:22

STL - Pittsburgh

Data file : \\gpitpa02\d\chem\gc4.i\6190-G.b\D-A6137.d
Lab Smp Id: MHIGHB
Inj Date : 20-SEP-2000 02:23
Operator : 1891 Inst ID: gc4.i
Smp Info : MHIGHB, 6190-G.b, , 4-INDB.sub, , 1, 4
Misc Info : 190-101-1
Comment :
Method : \\gpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 20-SEP-2000 02:23 Cal File: D-A6137.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	11 313	11 313	0.000	158766	0.05000	0.05239 (M)
7 beta-BHC	9 153	9.153	0.000	108420	0.05000	0.04588 (M)
8 delta-BHC	10 573	10.573	0.000	192402	0 05000	0 05338 (M)
12 Heptachlor epoxide	12.973	12.973	0.000	169105	0.05000	0 05126 (M)
13 gamma-Chlordane	13 346	13 346	0.000	177470	0 05000	0.05162 (M)
14 alpha-Chlordane	13.673	13 666	0.007	175376	0.05000	0.05112 (M)
16 4,4'-DDE	14 140	14 140	0 000	175710	0 05000	0.05415 (M)
22 Endosulfan II	15 126	15 126	0.000	156106	0 05000	0.05323 (M)
24 Endrin aldehyde	15 666	15.666	0.000	111831	0.05000	0 05093 (M)
26 Endosulfan sulfate	15 886	15.886	0.000	107502	0.05000	0.05484 (M)
27 Endrin ketone	17 526	17.526	0.000	121217	0.05000	0.05305 (M)

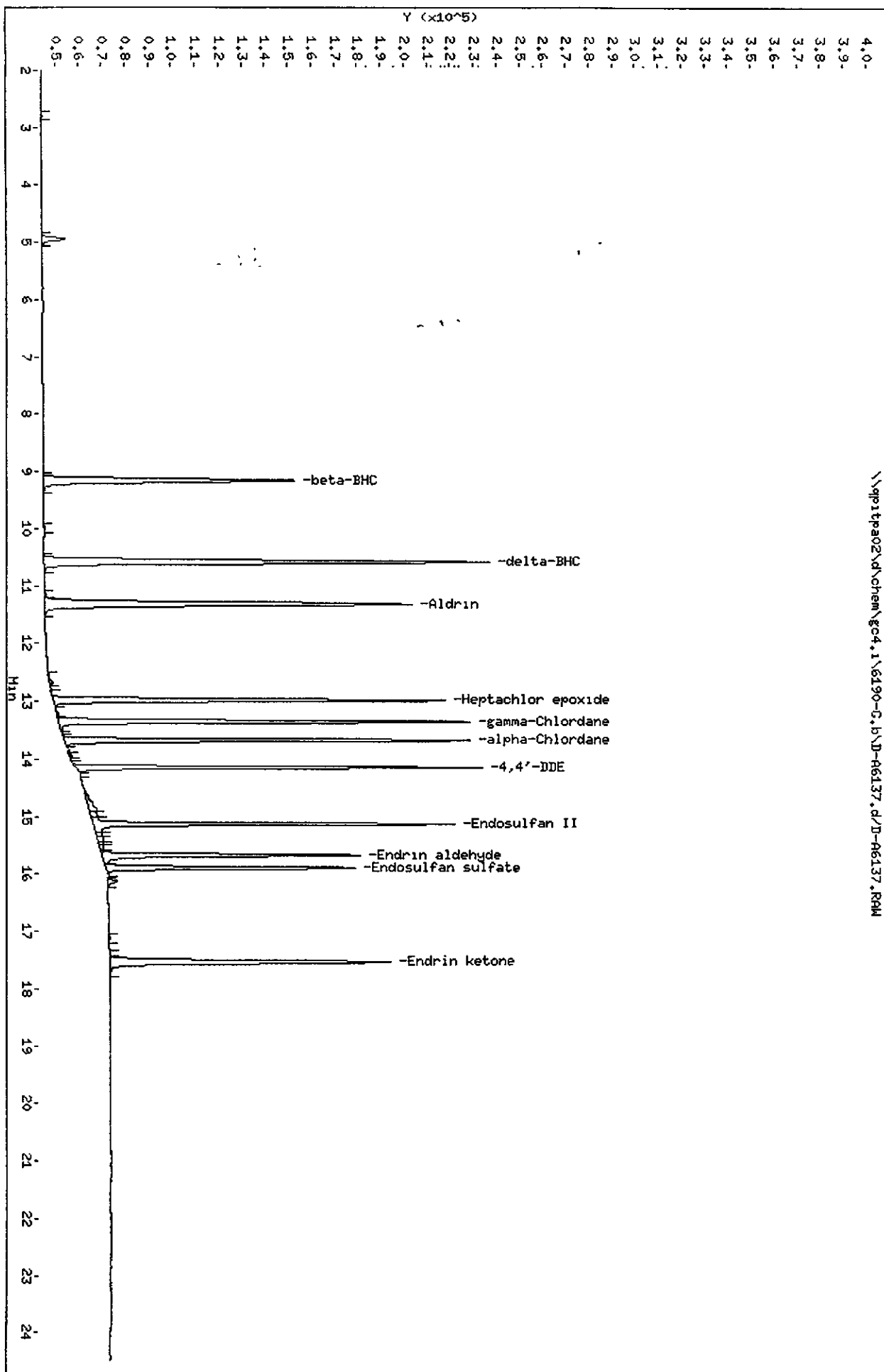
QC Flag Legend

M - Compound response manually integrated.

6721106

Data File: \\pp1tpa02\chem\gc4.1\6190-G.b\D-66137.d
Date: 20-SEP-2000 02:23
Client ID:
Sample Info: HHICHB, 6190-G.b, 4-INDB, sub, 1, 4
Column Phase: DB608

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



6721107

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6138.d

Report Date: 20-Sep-2000 12:22

STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6138.d
 Lab Smp Id: HIGHB
 Inj Date : 20-SEP-2000 02:50
 Operator : 1891 Inst ID: gc4.i
 Smp Info : HIGHB,6190-G.b,,4-INDB.sub,,1,5
 Misc Info : 190-101-2
 Comment :
 Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
 Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.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

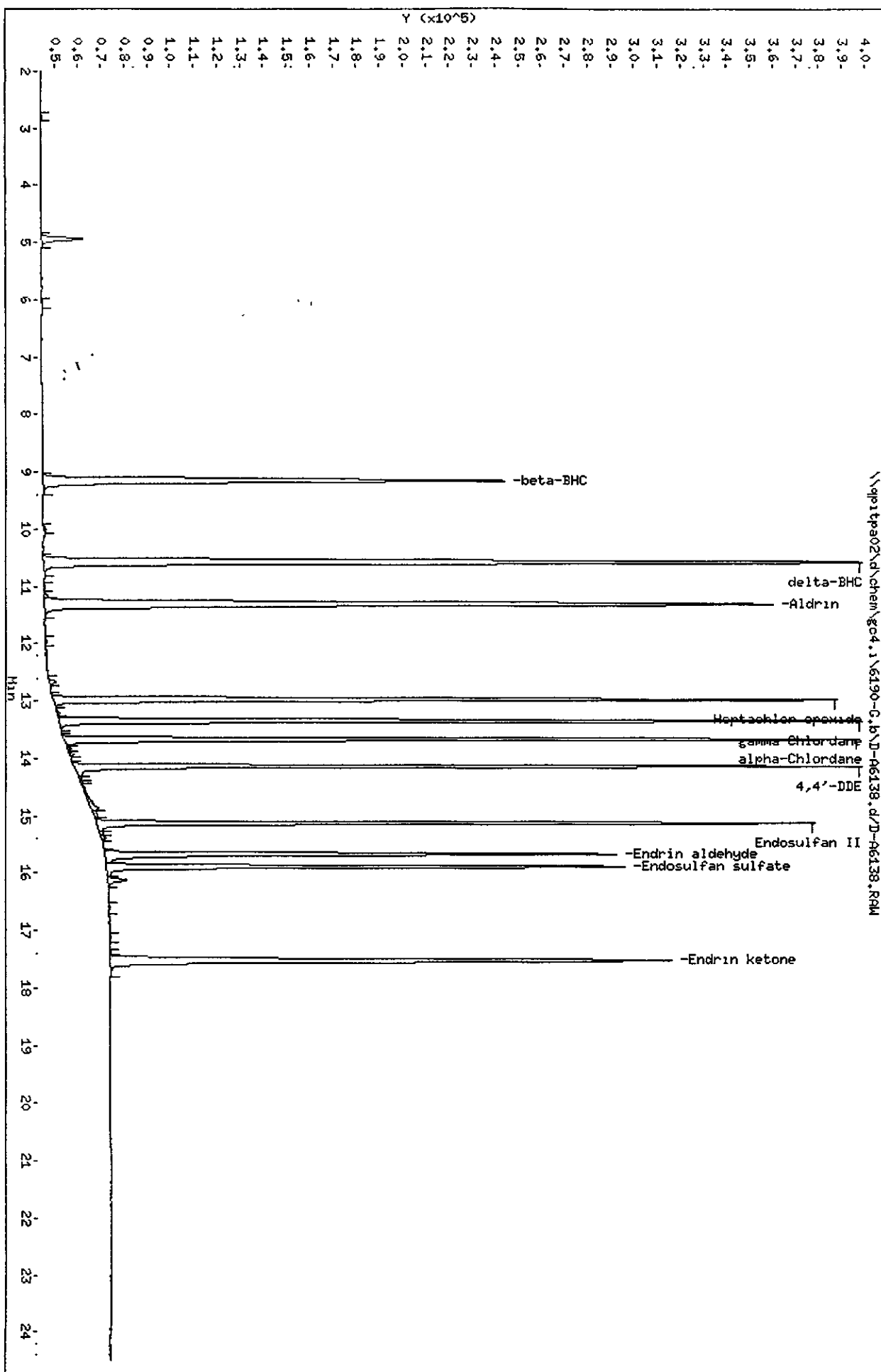
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.313	11.313	0.000	315386	0.10000	0.1032 (A)
7 beta-BHC	9.153	9.153	0.000	200257	0.10000	0.08741
8 delta-BHC	10.573	10.573	0.000	381544	0.10000	0.1046 (A)
12 Heptachlor epoxide	12.973	12.973	0.000	340032	0.10000	0.1024 (A)
13 gamma-Chlordane	13.346	13.346	0.000	351250	0.10000	0.1017 (A)
14 alpha-Chlordane	13.666	13.666	0.000	344505	0.10000	0.1003 (A)
16 4,4'-DDE	14.140	14.140	0.000	356938	0.10000	0.1078 (A)
22 Endosulfan II	15.126	15.126	0.000	311372	0.10000	0.1049 (A)
24 Endrin aldehyde	15.666	15.666	0.000	222227	0.10000	0.1010 (A)
26 Endosulfan sulfate	15.886	15.886	0.000	224967	0.10000	0.1115 (A)
27 Endrin ketone	17.526	17.526	0.000	243272	0.10000	0.1051 (A)

QC Flag Legend

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

Data File: \\pp1tpa02\chem\gc4.1\6190-G.b\D-06138.d
Date: 20-SEP-2000 02:50
Client ID:
Sample Info: HICHB,6190-G.b,4-INDB.sub,4.5
Column Phase: DB608

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



6721109

Data File: \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6139.d
Report Date: 20-Sep-2000 12:23

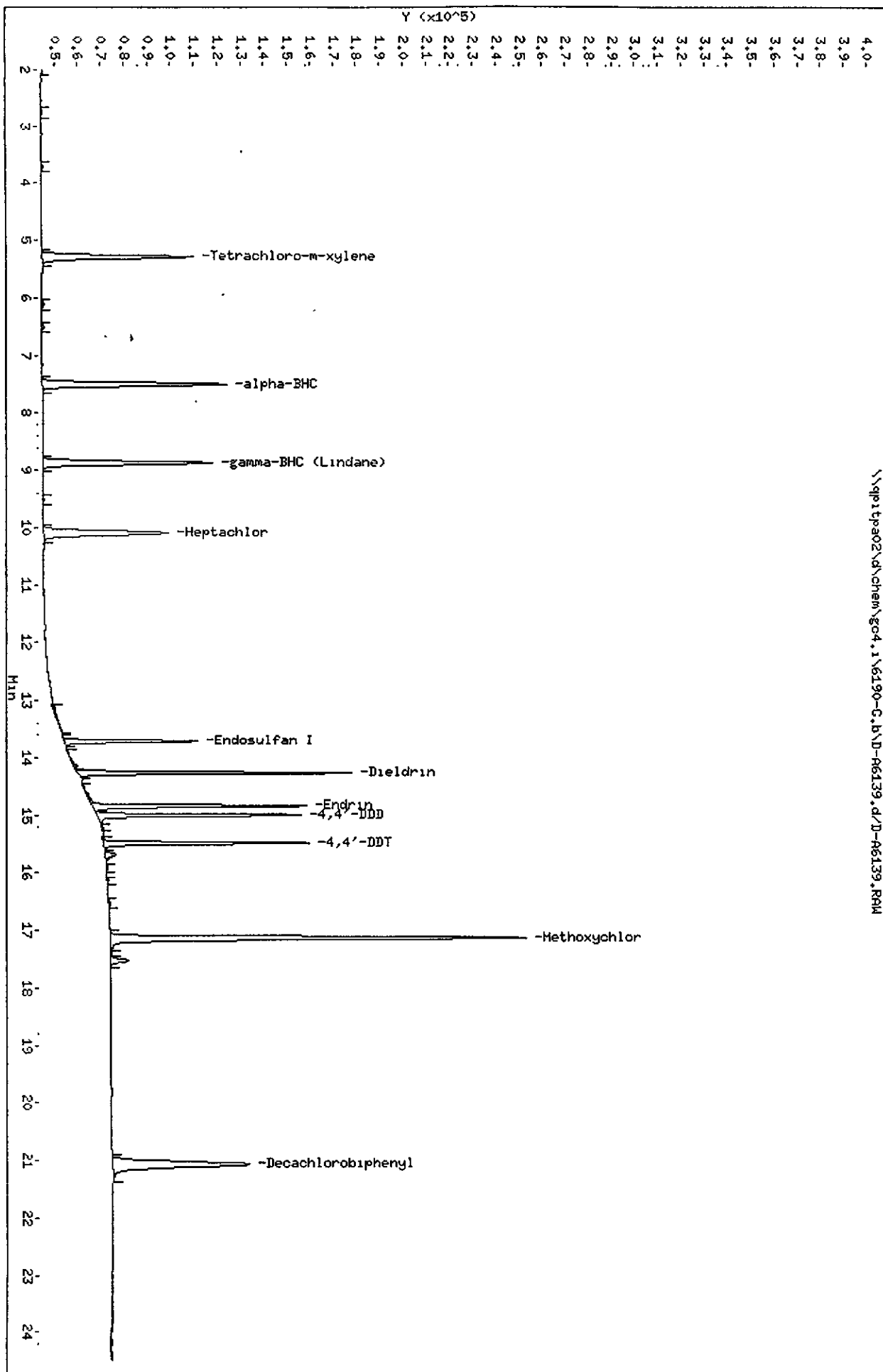
STL - Pittsburgh

Data file : \\qpitpa02\d\chem\gc4.i\6190-G.b\D-A6139.d
Lab Smp Id: 2ND A
Inj Date : 20-SEP-2000 03:18
Operator : 1891 Inst ID: gc4.i
Smp Info : 2ND A,6190-G.b,,INDA.sub,,2,3
Misc Info : 190-82-2
Comment :
Method : \\qpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.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	5.286	5.293	-0.007	65147	0.02500	0.01740
5 alpha-BHC	7.506	7.506	0.000	79605	0.02500	0.01759
6 gamma-BHC (Lindane)	8.873	8.873	0.000	73230	0.02500	0.01768
10 Heptachlor	10.100	10.100	0.000	54279	0.02500	0.01761
15 Endosulfan I	13.720	13.720	0.000	57417	0.02500	0.01805
17 Dieldrin	14.266	14.266	0.000	118584	0.02500	0.03574
20 Endrin	14.846	14.846	0.000	92476	0.02500	0.03222
21 4,4'-DDD	15.000	15.006	-0.006	88176	0.02500	0.03740
23 4,4'-DDT	15.480	15.480	0.000	89088	0.02500	0.03700
25 Methoxychlor	17.133	17.133	0.000	180115	0.05000	0.1881
\$ 30 Decachlorobiphenyl	21.073	21.073	0.000	58958	0.02500	0.03548

Data File: \\pp1tpa02\chem\gc4.1\6190-G.b\D-66139.d
Date: 20-SEP-2000 03:18
Client ID:
Sample Info: 2ND A,6190-G.b,INDA,sub,2,3
Column phase: DB608

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



6721111

Data File: \\gpitpa02\d\chem\gc4.i\6190-G.b\D-A6140.d
Report Date: 20-Sep-2000 12:23

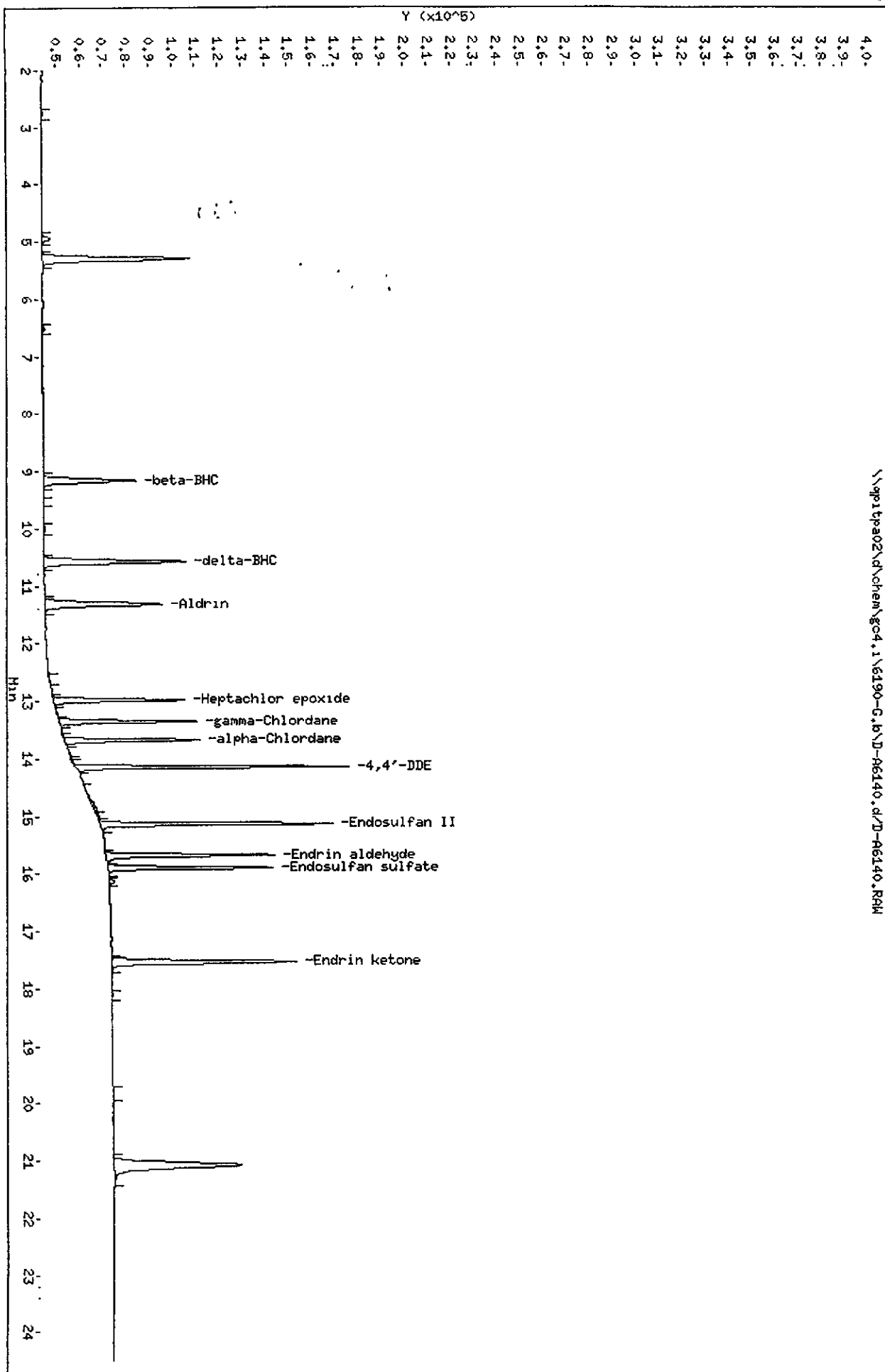
STL - Pittsburgh

Data file : \\gpitpa02\d\chem\gc4.i\6190-G.b\D-A6140.d
Lab Smp Id: 2ND B
Inj Date : 20-SEP-2000 03:46
Operator : 1891 Inst ID: gc4.i
Smp Info : 2ND B, 6190-G.b, , INDB.sub, , 2, 3
Misc Info : 190-82-5
Comment :
Method : \\gpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.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	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
11 Aldrin	11.306	11.313	-0.007	50604	0.02500	0.01656
7 beta-BHC	9.153	9.153	0.000	39844	0.02500	0.01739
8 delta-BHC	10.573	10.573	0.000	61302	0.02500	0.01681
12 Heptachlor epoxide	12.973	12.973	0.000	56678	0.02500	0.01708
13 gamma-Chlordane	13.346	13.346	0.000	59448	0.02500	0.01722
14 alpha-Chlordane	13.666	13.666	0.000	58735	0.02500	0.01711
16 4,4'-DDE	14.140	14.140	0.000	118113	0.02500	0.03568
22 Endosulfan II	15.126	15.126	0.000	100826	0.02500	0.03396
24 Endrin aldehyde	15.666	15.666	0.000	73245	0.02500	0.03328
26 Endosulfan sulfate	15.886	15.886	0.000	71306	0.02500	0.03533
27 Endrin ketone	17.526	17.526	0.000	79949	0.02500	0.03454

Data File: \\pptpao2\chem\gc4.1\6190-G.b\D-A6140.d
Date : 20-SEP-2000 03:46
Client ID:
Sample Info: 2ND B,6190-G.b,,INDB,sub,,2,3
Column phase: DB608

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



6721113

Data File: \\gpitpa02\d\chem\gc4.i\6190-G.b\D-A6141.d
 Report Date: 20-Sep-2000 12:23

STL - Pittsburgh

Data file : \\gpitpa02\d\chem\gc4.i\6190-G.b\D-A6141.d
 Lab Smp Id: EVALB
 Inj Date : 20-SEP-2000 04:14
 Operator : 1891 Inst ID: gc4.i
 Smp Info : EVALB,6190-G.b,,EVALBR.sub,,3,1
 Misc Info : 190-88-8
 Comment :
 Method : \\gpitpa02\d\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 20-Sep-2000 12:19 eppingerd Quant Type: ESTD
 Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.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	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ng)
=====	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.286	5.293	-0.007	74622	0.01993	0.01993(R)
16 4,4'-DDE	14.146	14.140	0.006	863	<0.0	0.0002607
20 Endrin	14.846	14.846	0.000	69654	0.02427	0.02427
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.480	15.480	0.000	58616	0.02435	0.02434
24 Endrin aldehyde	15.673	15.666	0.007	2474	0.00112	0.001124
27 Endrin ketone	17.526	17.526	0.000	2367	0.00102	0.001023
\$ 30 Decachlorobiphenyl	21.073	21.073	0.000	34328	0.02066	0.02066(R)

QC Flag Legend

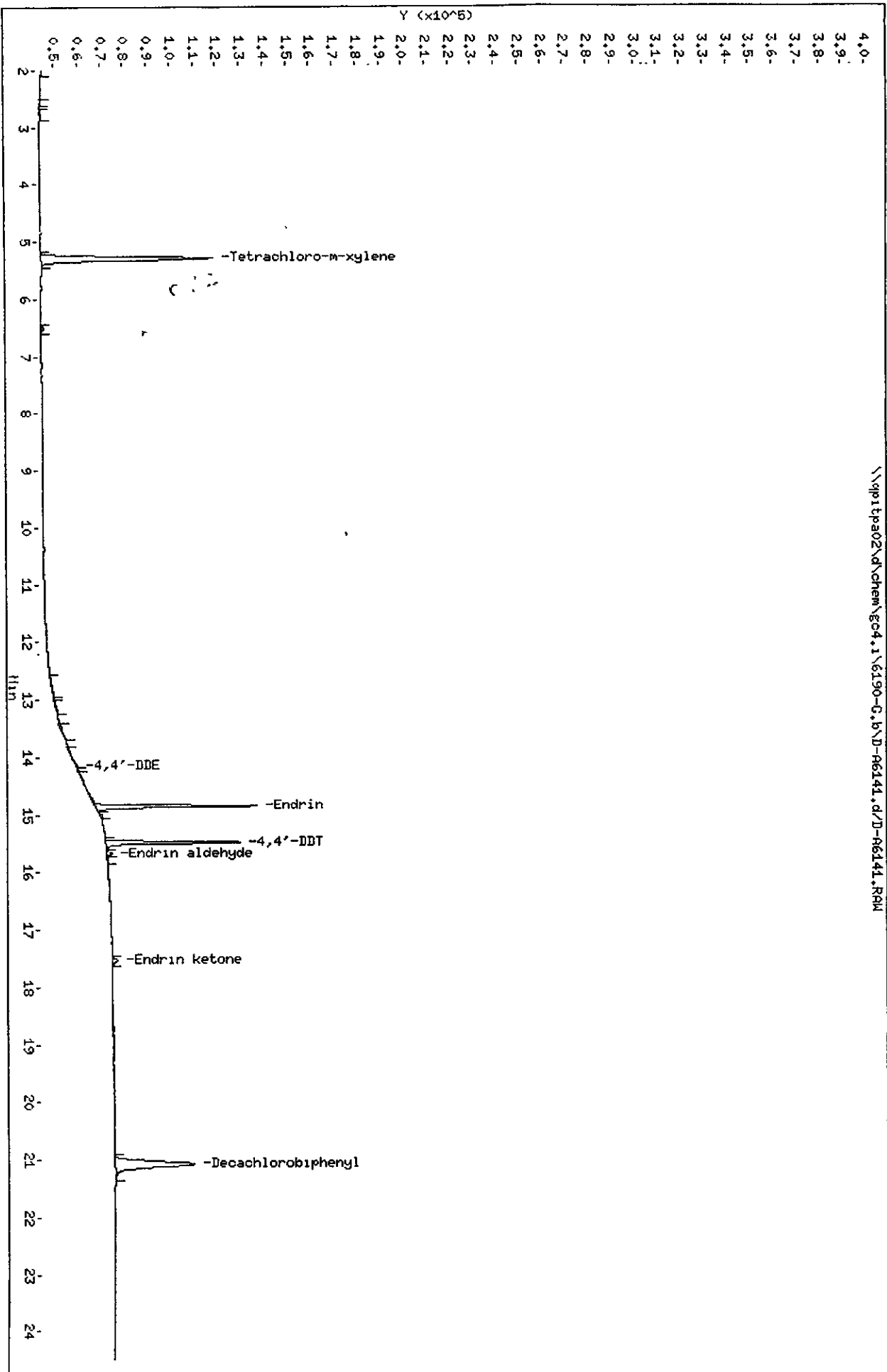
R - Spike/Surrogate failed recovery limits.

DDT 1.57%
 Endrin 6.57%

6721114

Data File: \\ppitpa02\chem\gc4.1\6190-G.b\D-06141.d
Date: 20-SEP-2000 04:14
Client ID:
Sample Info: EVALB,6190-G.b,EVALBR,sub,3,1
Column phase: DB608

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



6721115

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6348.d
Report Date: 29-Sep-2000 15:23

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6348.d
Lab Smp Id: EVALB
Inj Date : 29-SEP-2000 10:37
Operator : 1891 Inst ID: gc4.i
Smp Info : EVALB,6190-G.b,,EVALBR.sub,,3,1
Misc Info : 190-88-8
Comment :
Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 29-Sep-2000 15:22 gc Quant Type: ESTD
Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.d
Als bottle: 1 QC Sample: PEM
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: EVALBR.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ng)
\$ 1 Tetrachloro-m-xylene	5.266	5.260	0.006	75872	0.02027	0.02026 (R)
16 4,4'-DDE	14.126	14.120	0.006	663	0.00020	0.0002003
20 Endrin	14.826	14.826	0.000	66132	0.02305	0.02304
21 4,4'-DDD	Compound Not Detected.					
23 4,4'-DDT	15.460	15.453	0.007	62324	0.02589	0.02588
24 Endrin aldehyde	15.646	15.640	0.006	4151	0.00189	0.001886
27 Endrin ketone	17.486	17.480	0.006	3551	0.00153	0.001534
\$ 30 Decachlorobiphenyl	21.006	21.000	0.006	35523	0.02138	0.02138 (R)

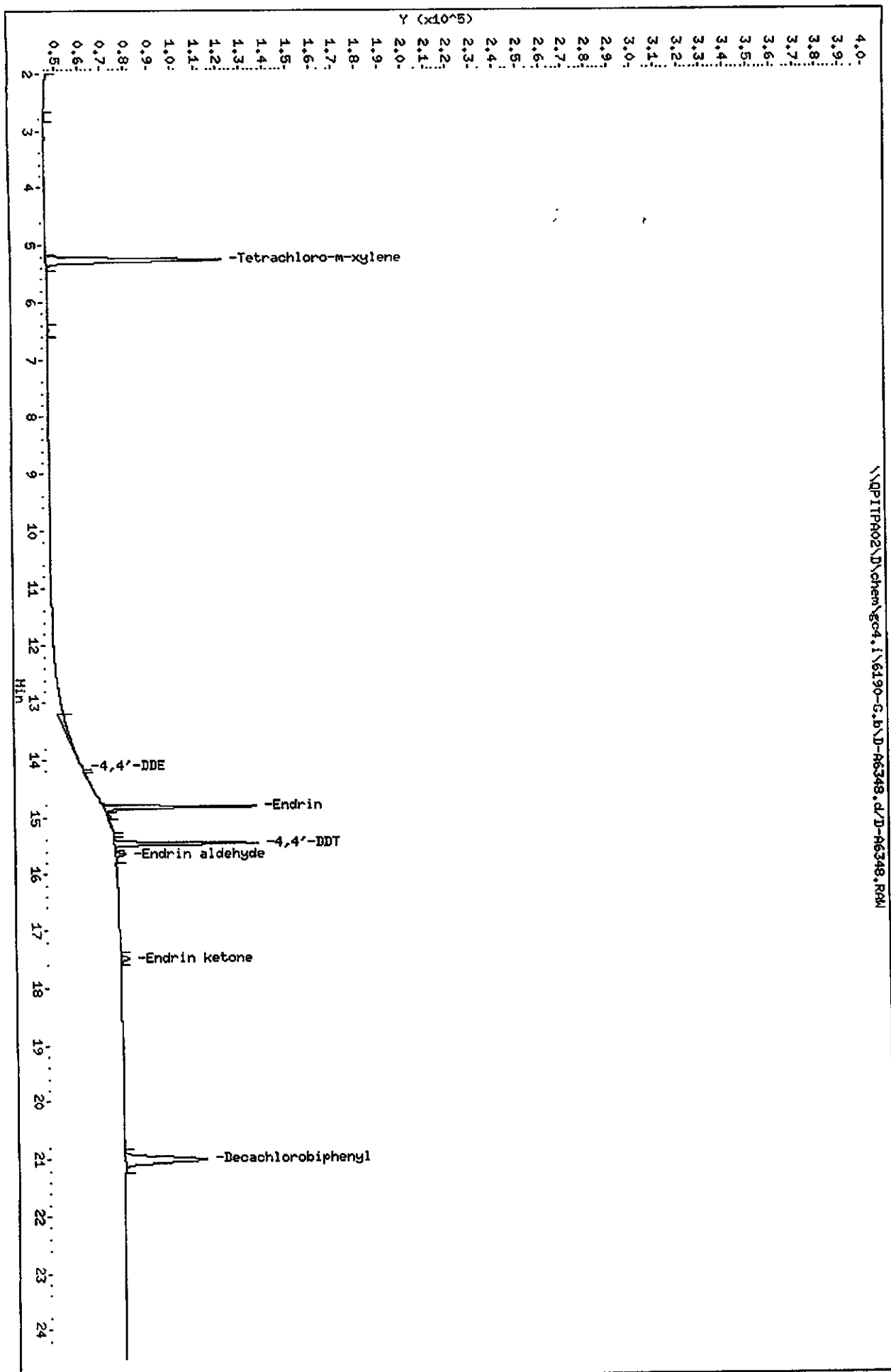
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

DDT = 1.1
Endrin = 10.4

Data File: \\NPITPA02\chem\gc4.1\6190-G.b\D-A6348.d
Date: 29-SEP-2000 10:37
Client ID:
Sample Info: EVALB,6190-G.b,EVALBR,sub,3.1
Column phase: DB608

Instrument: GC4.1
Operator: 1891
Column diameter: 0.53



6721117

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6349.d
 Report Date: 29-Sep-2000 15:23

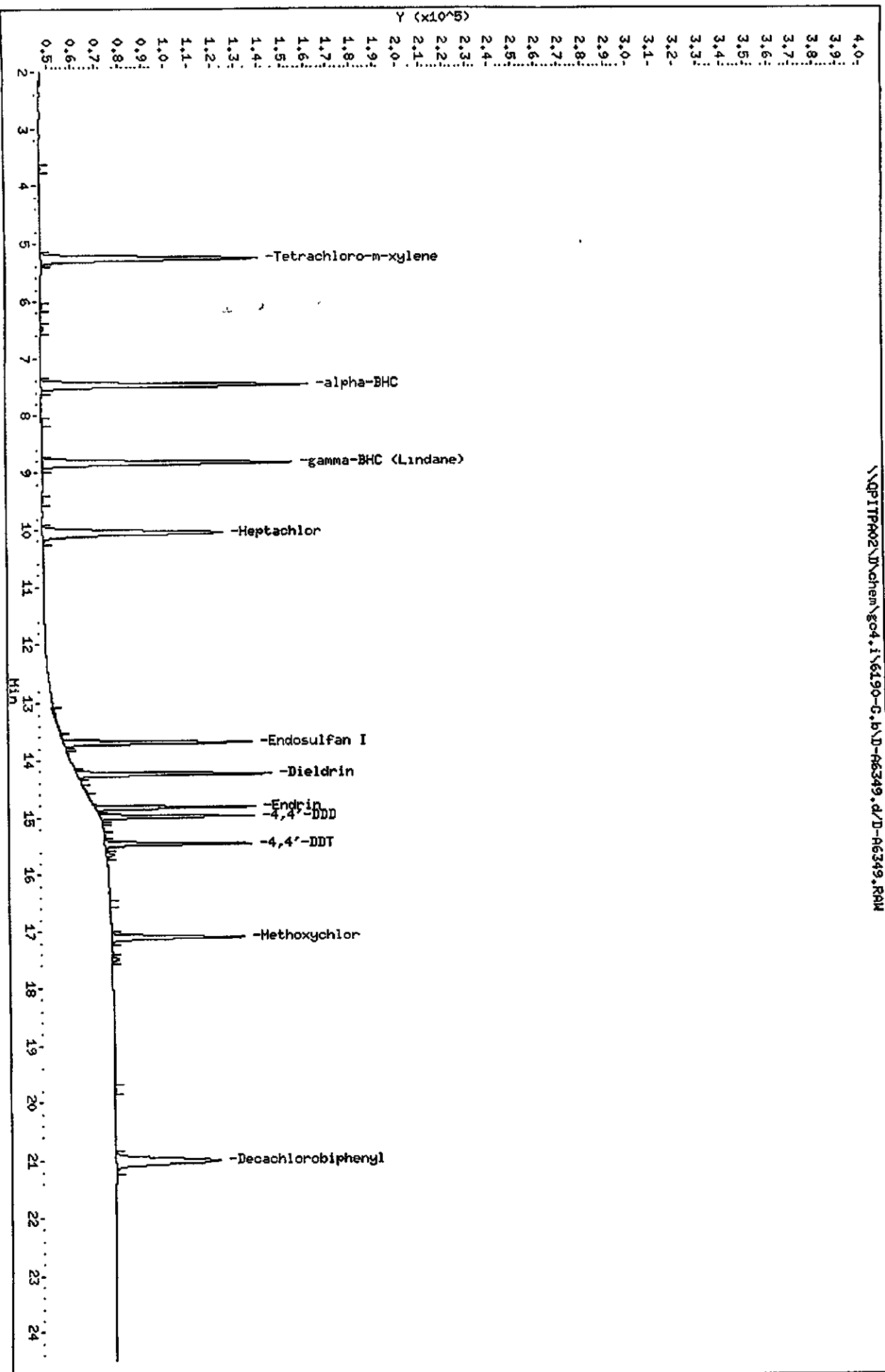
STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6349.d
 Lab Smp Id: MEDA
 Inj Date : 29-SEP-2000 11:04
 Operator : 1891 Inst ID: gc4.i
 Smp Info : MEDA, 6190-G.b, , INDA.sub, , 2, 3
 Misc Info : 190-100-8
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 29-Sep-2000 15:22 gc Quant Type: ESTD
 Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: INDA.sub
 Target Version: 4.04
 Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
\$ 1 Tetrachloro-m-xylene	5.260	5.260	0.000	93671	0.02500	0.02502
5 alpha-BHC	7.466	7.466	0.000	115118	0.02500	0.02543
6 gamma-BHC (Lindane)	8.833	8.833	0.000	107195	0.02500	0.02588
10 Heptachlor	10.053	10.053	0.000	77473	0.02500	0.02514
15 Endosulfan I	13.693	13.693	0.000	81310	0.02500	0.02556
17 Dieldrin	14.246	14.246	0.000	83782	0.02500	0.02525
20 Endrin	14.826	14.826	0.000	68938	0.02500	0.02402
21 4,4'-DDD	14.980	14.980	0.000	66619	0.02500	0.02826
23 4,4'-DDT	15.453	15.453	0.000	63407	0.02500	0.02634
25 Methoxychlor	17.100	17.100	0.000	57219	0.05000	0.05977
\$ 30 Decachlorobiphenyl	21.000	21.000	0.000	44865	0.02500	0.02700

Data File: \\NPITP002\Nchem\gc4.i\6190-G.b\D-66349.d
Date : 29-SEP-2000 11:04
Client ID:
Sample Info: MEDA,6190-G.b,,INDA,sub,,2,3
Column phase: DB608

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



6721119

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6350.d
Report Date: 29-Sep-2000 15:23

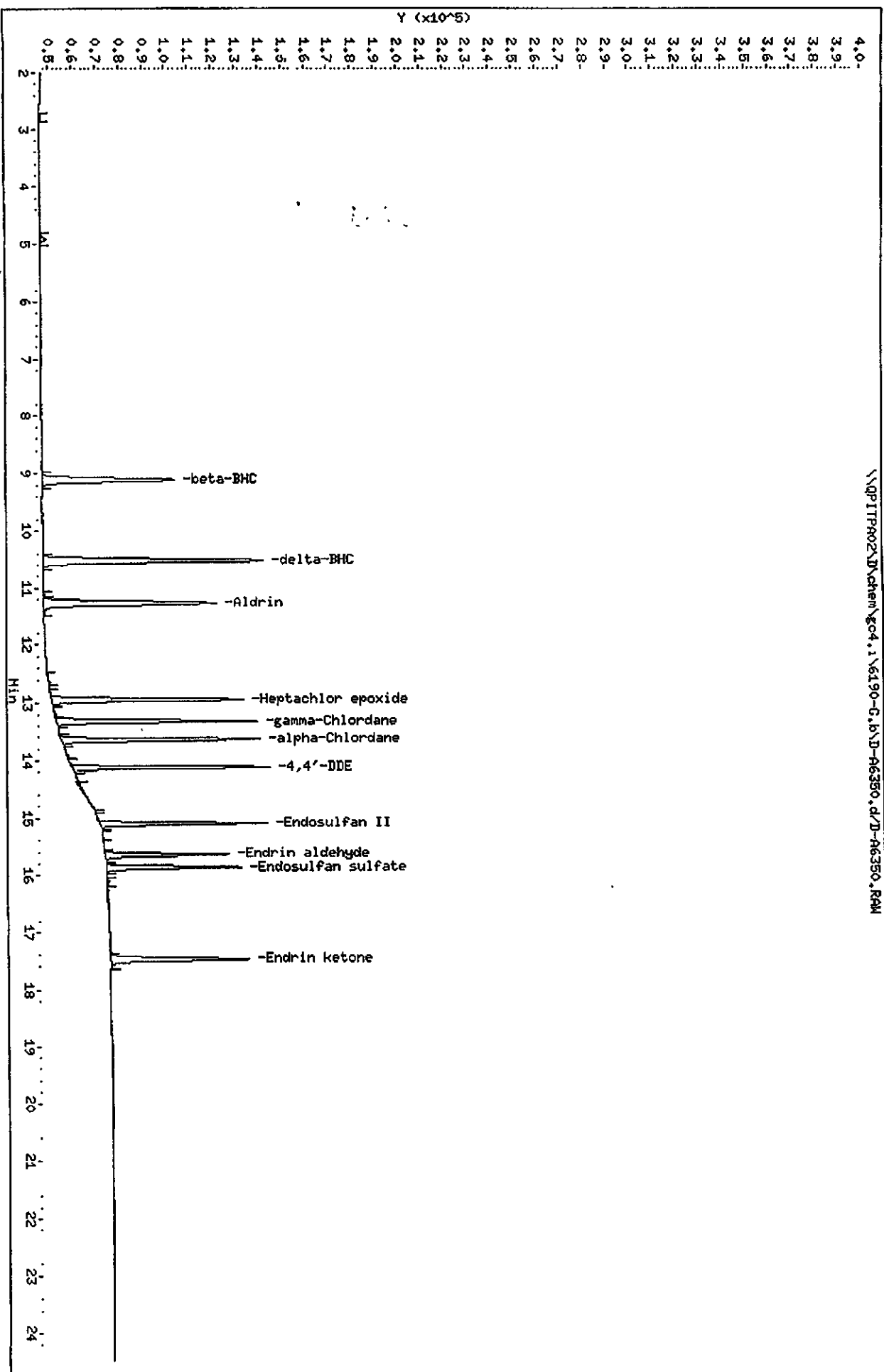
STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6350.d
Lab Smp Id: MEDB
Inj Date : 29-SEP-2000 11:32
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,6190-G.b,,INDB.sub,,2,3
Misc Info : 190-100-14
Comment :
Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 29-Sep-2000 15:22 gc Quant Type: ESTD
Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
11 Aldrin	11.266	11.266	0.000	74701	0.02500	0.02445
7 beta-BHC	9.106	9.106	0.000	57285	0.02500	0.02500
8 delta-BHC	10.526	10.526	0.000	94907	0.02500	0.02603
12 Heptachlor epoxide	12.946	12.946	0.000	82445	0.02500	0.02484
13 gamma-Chlordane	13.320	13.320	0.000	86097	0.02500	0.02494
14 alpha-Chlordane	13.646	13.646	0.000	85338	0.02500	0.02485
16 4,4'-DDE	14.120	14.120	0.000	85245	0.02500	0.02576
22 Endosulfan II	15.106	15.106	0.000	72489	0.02500	0.02442
24 Endrin aldehyde	15.640	15.640	0.000	53774	0.02500	0.02443
26 Endosulfan sulfate	15.860	15.860	0.000	58016	0.02500	0.02875
27 Endrin ketone	17.480	17.480	0.000	59942	0.02500	0.02590

Data File: \\NPITPA02\Nchem\gc4.1\6190-G.b\D-A6350.d
Date : 29-SEP-2000 11:32
Client ID:
Sample Info: MEDB,6190-G.b,,INDB.sub,,2,3
Column phase: DB608

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



6721121

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6358.d
Report Date: 29-Sep-2000 16:22

STL - Pittsburgh

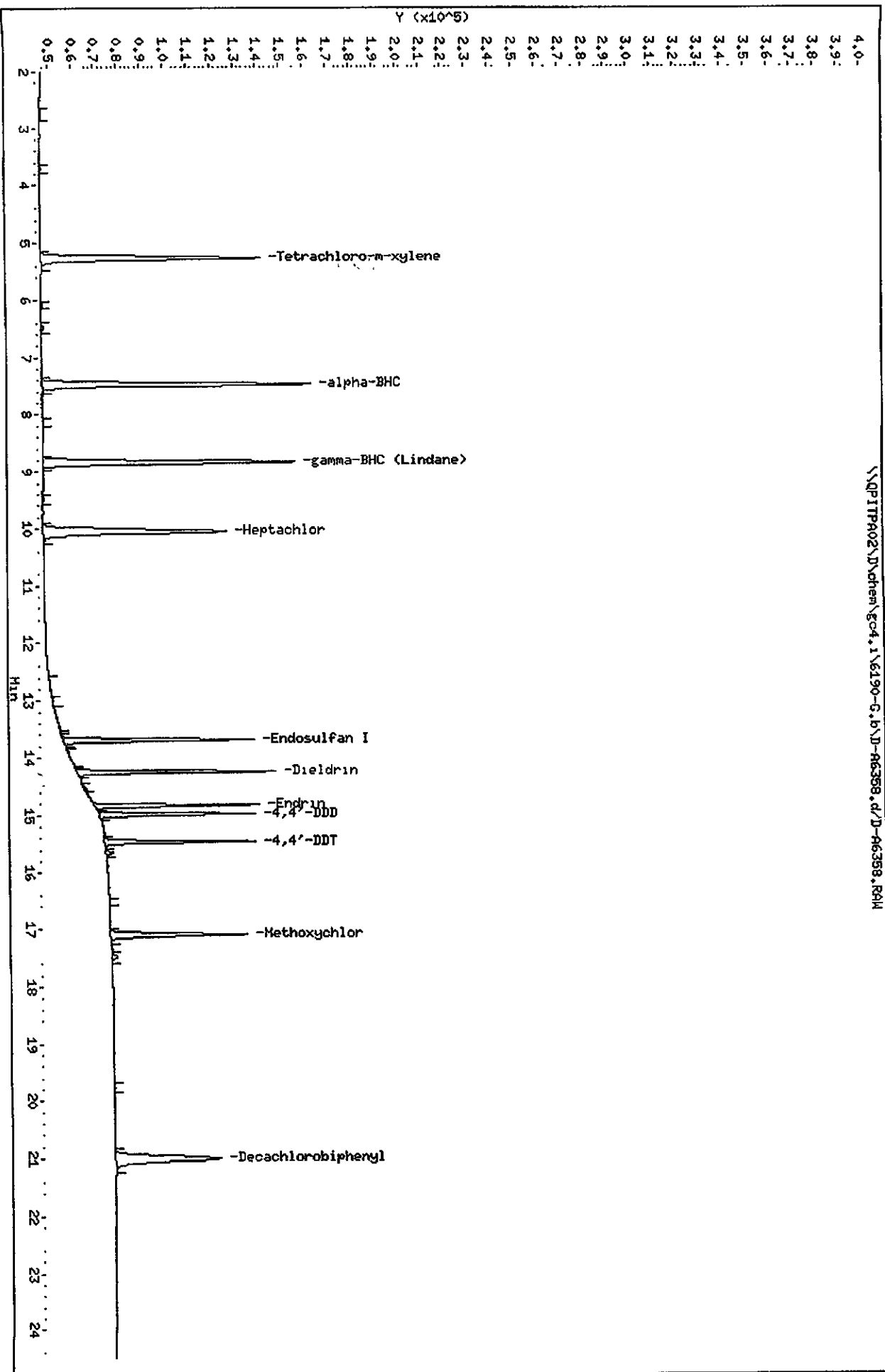
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Lab Smp Id: MEDA
Inj Date : 29-SEP-2000 15:14
Operator : 1891
Smp Info : MEDA,6190-G.b,,INDA.sub,,2,3
Misc Info : 190-100-8
Comment :
Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 29-Sep-2000 16:20 gc
Cal Date : 20-SEP-2000 02:50
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc4.i
Quant Type: ESTD
Cal File: D-A6138.d
Continuing Calibration Sample
Compound Sublist: INDA.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
\$ 1 Tetrachloro-m-xylene	5.266	5.260	0.006	94304	0.02500	0.02519
5 alpha-BHC	7.473	7.466	0.007	115874	0.02500	0.02560
6 gamma-BHC (Lindane)	8.833	8.833	0.000	108417	0.02500	0.02618
10 Heptachlor	10.053	10.053	0.000	78887	0.02500	0.02559
15 Endosulfan I	13.693	13.693	0.000	82306	0.02500	0.02588
17 Dieldrin	14.246	14.246	0.000	85282	0.02500	0.02570
20 Endrin	14.826	14.826	0.000	71151	0.02500	0.02479
21 4,4'-DDD	14.980	14.980	0.000	66988	0.02500	0.02841
23 4,4'-DDT	15.453	15.453	0.000	64988	0.02500	0.02699
25 Methoxychlor	17.100	17.100	0.000	59022	0.05000	0.06165
\$ 30 Decachlorobiphenyl	21.006	21.000	0.006	45410	0.02500	0.02733

Data File: \\QPI1P402\\D\\chem\\gc4.1\\6190-G.b\\D-A6358.d
Date : 29-SEP-2000 15:14
Client ID:
Sample Info: HEDR,6190-G.b,,INDR,sub,,2,3
Column phase: DB608

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



6721123

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6359.d
Report Date: 29-Sep-2000 16:23

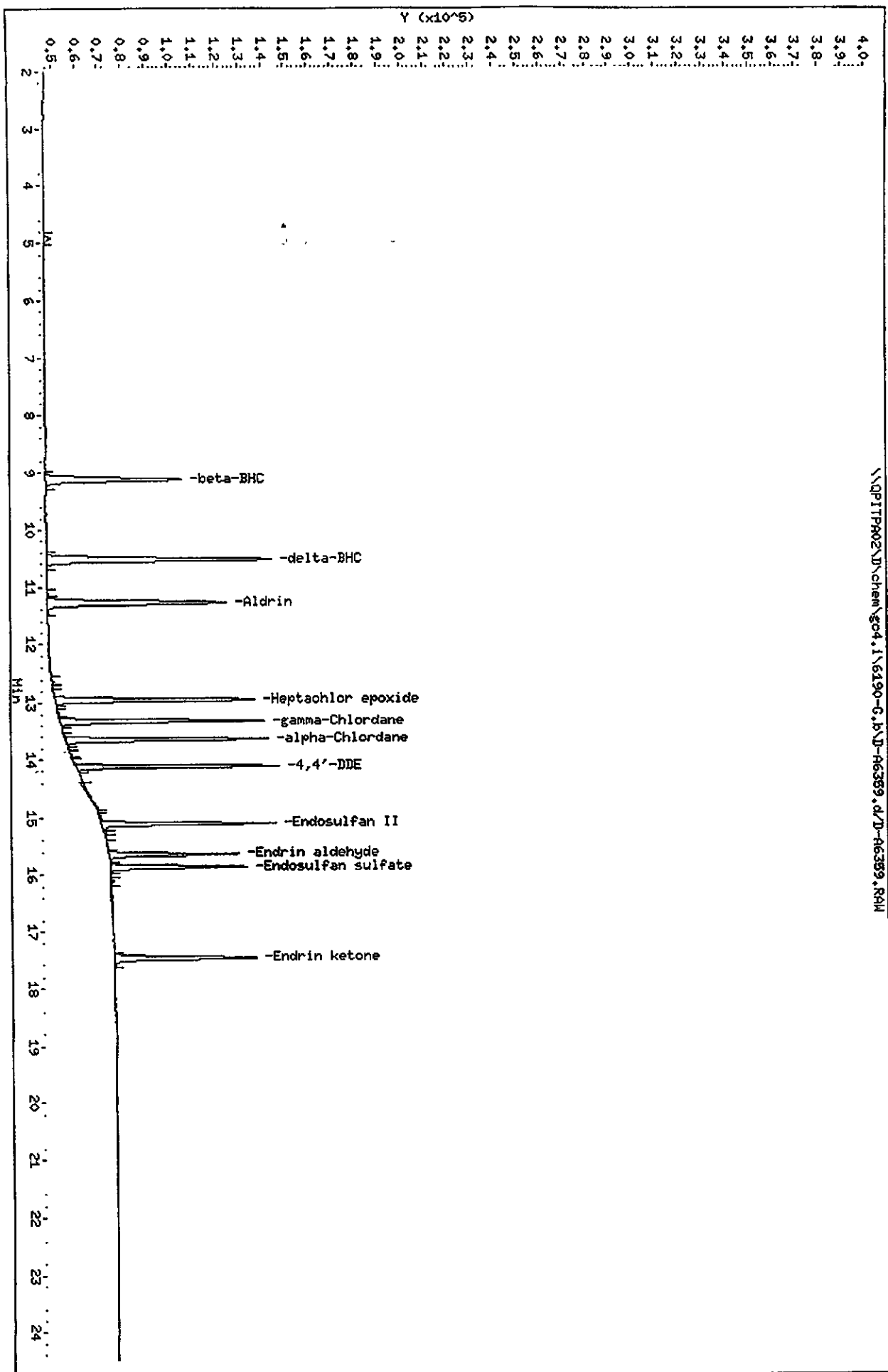
STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6359.d
Lab Smp Id: MEDB
Inj Date : 29-SEP-2000 15:42
Operator : 1891 Inst ID: gc4.i
Smp Info : MEDB,6190-G.b,,INDB.sub,,2,3
Misc Info : 190-100-14
Comment :
Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
Meth Date : 29-Sep-2000 16:20 gc Quant Type: ESTD
Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: INDB.sub
Target Version: 4.04
Processing Host: PITPC085

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ng)	ON-COL (ng)
*****	==	=====	=====	=====	=====	=====
11 Aldrin	11.266	11.266	0.000	77127	0.02500	0.02524
7 beta-BHC	9.106	9.106	0.000	58345	0.02500	0.02546
8 delta-BHC	10.526	10.526	0.000	96653	0.02500	0.02651
12 Heptachlor epoxide	12.946	12.946	0.000	85625	0.02500	0.02580
13 gamma-Chlordane	13.320	13.320	0.000	87476	0.02500	0.02534
14 alpha-Chlordane	13.646	13.646	0.000	87274	0.02500	0.02542
16 4,4'-DDE	14.120	14.120	0.000	87335	0.02500	0.02639
22 Endosulfan II	15.106	15.106	0.000	74506	0.02500	0.02510
24 Endrin aldehyde	15.640	15.640	0.000	55821	0.02500	0.02536
26 Endosulfan sulfate	15.860	15.860	0.000	58853	0.02500	0.02916
27 Endrin ketone	17.480	17.480	0.000	61211	0.02500	0.02645

Data File: \\QPIITP002\J\chem\gc4.i\6190-G.b\D-A6359.d
Date : 29-SEP-2000 15:42
Client ID:
Sample Info: MEDB,6190-G.b, INDB,sub,,2,3
Column phase: DB608

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



6721125

**PESTICIDE
QC DATA**

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I270000 574

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DL628101

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: NA

QC Batch: 0271574

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
57-74-9	Chlordane (technical)	0.0050	U
72-20-8	Endrin	0.00050	U
76-44-8	Heptachlor	0.00050	U
1024-57-3	Heptachlor epoxide	0.00050	U
58-89-9	Lindane	0.00050	U
72-43-5	Methoxychlor	0.0010	U
8001-35-2	Toxaphene	0.020	U

6721127

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6351.d
Report Date: 29-Sep-2000 15:57

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6351.d
Lab Smp Id: DL628101 Client Smp ID: PBLK
Inj Date : 29-SEP-2000 12:00

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6351.d
 Report Date: 29-Sep-2000 15:57

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD				Compound Not Detected.		
18 Toxaphene				Compound Not Detected.		
22 Endosulfan II	15.106	15 106	0.000	1594	<0.0	0.00005369(a)
23 4,4'-DDT				Compound Not Detected.		
24 Endrin aldehyde				Compound Not Detected.		
26 Endosulfan sulfate				Compound Not Detected.		
25 Methoxychlor				Compound Not Detected.		
27 Endrin ketone				Compound Not Detected.		
\$ 30 Decachlorobiphenyl	21.000	21.000	0.000	34750	0.02091	0.002091(aR)

QC Flag Legend

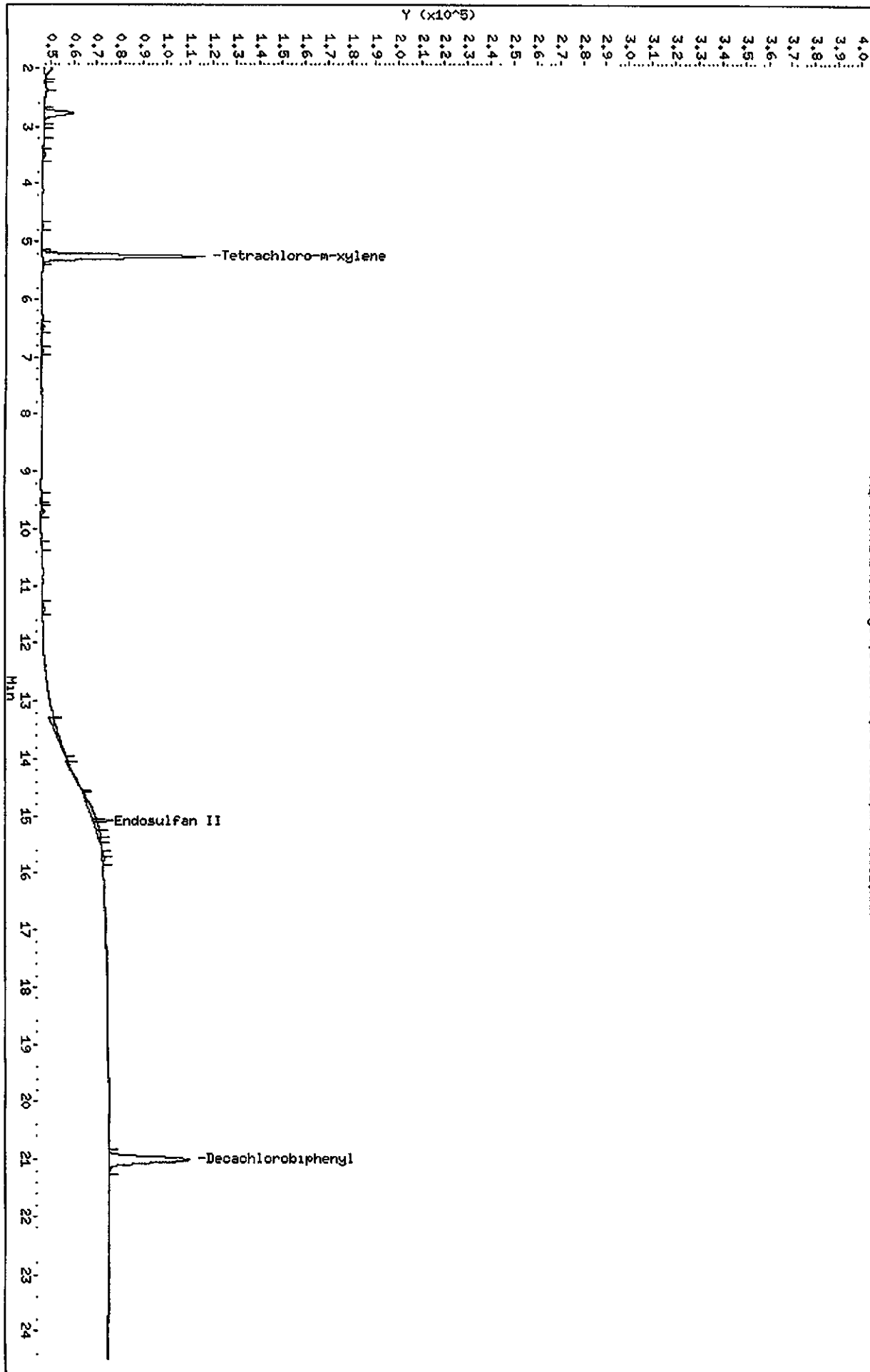
- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

6721129

Data File: \\QPI1FA02\Jchem\gc4.1\6190-G.b\D-A6351.d
Date : 29-SEP-2000 12:00
Client ID: PELK
Sample Info: DL628101,6190-G.b,PEST,sub,3,
Volume Injected (uL): 1.0
Column phase: DB608

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

\\QPI1FA02\Jchem\gc4.1\6190-G.b\D-A6351.d\D-A6351.RAW



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I270000 574

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DL628102

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: NA

QC Batch: 0271574

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00214	
76-44-8	Heptachlor	0.00219	
1024-57-3	Heptachlor epoxide	0.00224	
58-89-9	Lindane	0.00134	
72-43-5	Methoxychlor	0.00280	

6721131

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6352.d
 Report Date: 29-Sep-2000 15:57

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6352.d
 Lab Smp Id: DL628102 Client Smp ID: LCS
 Inj Date : 29-SEP-2000 12:28
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DL628102,6190-G.b,,PEST.sub,,3,
 Misc Info : 220208LCS
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 29-Sep-2000 15:22 gc Quant Type: ESTD
 Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC085

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

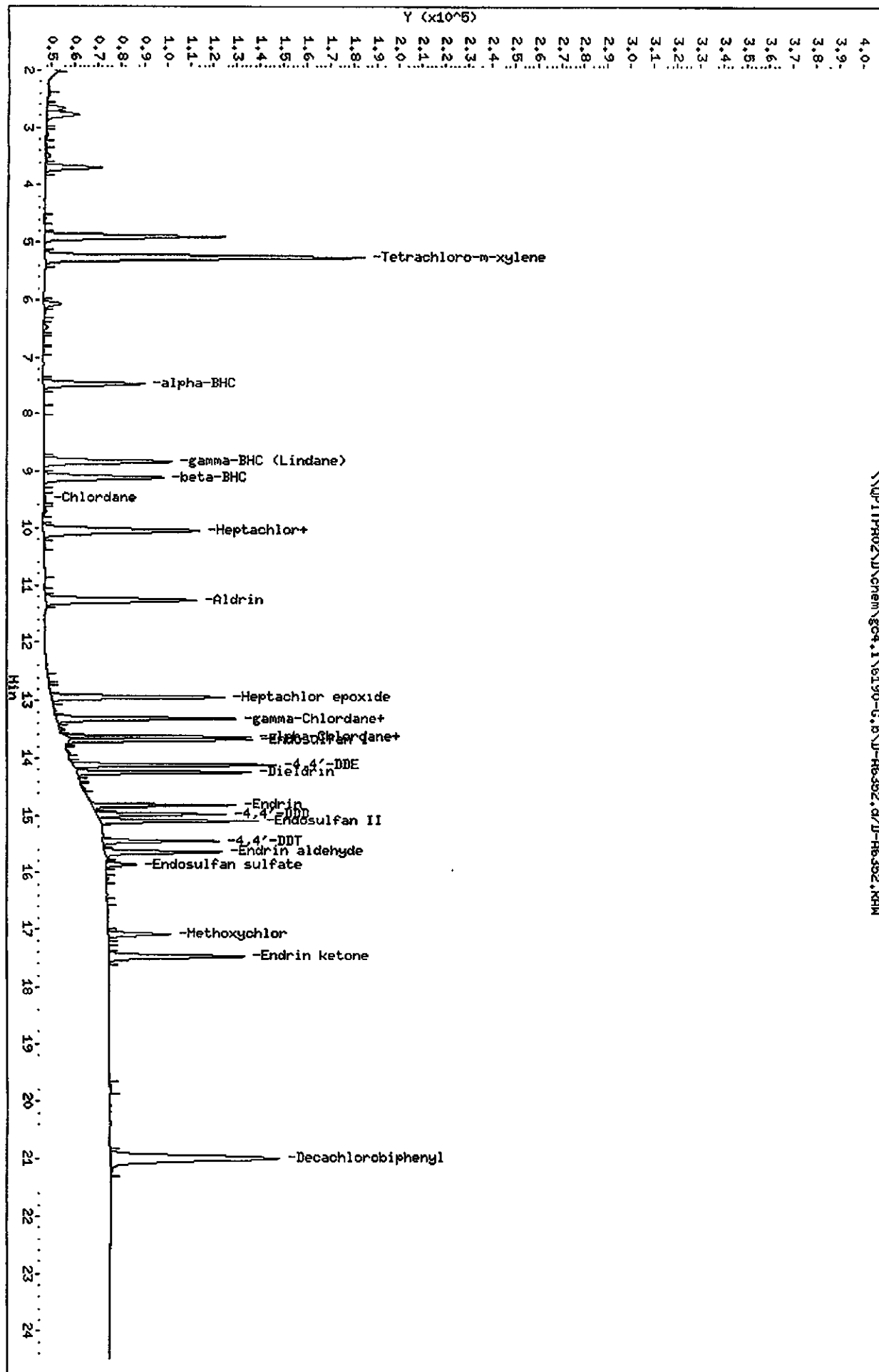
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.260	5.260	0.000	137401	0.03670	0.003670 (aR)
5 alpha-BHC	7.466	7.466	0.000	43379	0.00958	0.000958 (a)
6 gamma-BHC (Lindane)	8.833	8.833	0.000	55441	0.01339	0.001338 (aR)
7 beta-BHC	9.106	9.106	0.000	51755	0.02259	0.002259 (a)
9 Chlordane	9.466	9.466	0.000	715	0.23449	0.02345 (a)
10 Heptachlor	10.053	10.053	0.000	67396	0.02187	0.002187 (aR)
8 delta-BHC	Compound Not Detected.					
11 Aldrin	11.266	11.266	0.000	64722	0.02118	0.002118 (aR)
12 Heptachlor epoxide	12.946	12.946	0.000	74457	0.02243	0.002243 (a)
13 gamma-Chlordane	13.320	13.320	0.000	76839	0.02225	0.002225 (a)
14 alpha-Chlordane	13.646	13.646	0.000	78450	0.02285	0.002285 (a)
15 Endosulfan I	13.686	13.693	-0.007	78561	0.02470	0.002470 (a)
16 4,4'-DDE	14.120	14.120	0.000	86980	0.02628	0.002628 (a)
17 Dieldrin	14.246	14.246	0.000	74254	0.02238	0.002238 (aR)
20 Endrin	14.826	14.826	0.000	61346	0.02138	0.002138 (aR)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD	14.980	14.980	0.000	55378	0.02349	0.002349(a)
18 Toxaphene	Compound Not-Detected.					
22 Endosulfan II	15.106	15.106	0.000	67740	0.02282	0.002282(a)
23 4,4'-DDT	15.453	15.453	0.000	49938	0.02074	0.002074(aR)
24 Endrin aldehyde	15.640	15.640	0.000	50253	0.02283	0.002283(a)
26 Endosulfan sulfate	15.860	15.860	0.000	13294	0.00659	0.0006587(a)
25 Methoxychlor	17.100	17.100	0.000	26856	0.02805	0.002805(a)
27 Endrin ketone	17.480	17.480	0.000	57970	0.02505	0.002505(a)
\$ 30 Decachlorobiphenyl	21.000	21.000	0.000	72431	0.04359	0.004359(aR)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).
 R - Spike/Surrogate failed recovery limits.

6721133



Data File: \\QPI1P402\\D\\chem\\gc4.i\\6190-G.b\\D-A6352.d
 Date : 29-SEP-2000 12:28
 Client ID: LCS
 Sample Info: DL628102,6190-G.b,,PEST,sub,,3,
 Volume Injected (uL): 1.0
 Column phase: DB608

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

\\QPI1P402\\D\\chem\\gc4.i\\6190-G.b\\D-A6352.d\\D-A6352.RAW

UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK310L

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 27

QC Batch: 0271574

Client Sample Id: DF/24-A/0265/SDC/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg)	mg/L
72-20-8	Endrin	0.00225	Q
76-44-8	Heptachlor	0.00217	
1024-57-3	Heptachlor epoxide	0.00224	
58-89-9	Lindane	0.00134	
72-43-5	Methoxychlor	0.00283	

6721135

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6353.d
 Report Date: 29-Sep-2000 15:57

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6353.d
 Lab Smp Id: DKVK310L Client Smp ID: DF/24-A/0265/SDCMS
 Inj Date : 29-SEP-2000 12:55
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DKVK310L, 6190-G.b, , PEST.sub, , 3,
 Misc Info : 220208002S
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 29-Sep-2000 15:22 gc Quant Type: ESTD
 Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC085

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.260	5.260	0.000	134982	0.03605	0.003605 (aR)
5 alpha-BHC	7.466	7.466	0.000	43199	0.00954	0.0009544 (a)
6 gamma-BHC (Lindane)	8.833	8.833	0.000	55508	0.01340	0.001340 (aR)
7 beta-BHC	9.106	9.106	0.000	51467	0.02246	0.002246 (a)
9 Chlordane	9.453	9.466	-0.013	885	0.23437	0.02344 (a)
10 Heptachlor	10.053	10.053	0.000	66957	0.02172	0.002172 (aR)
8 delta-BHC	Compound Not Detected.					
11 Aldrin	11.266	11.266	0.000	64636	0.02116	0.002116 (aR)
12 Heptachlor epoxide	12.946	12.946	0.000	74461	0.02243	0.002243 (a)
13 gamma-Chlordane	13.320	13.320	0.000	76705	0.02222	0.002222 (a)
14 alpha-Chlordane	13.646	13.646	0.000	78673	0.02291	0.002291 (a)
15 Endosulfan I	13.686	13.693	-0.007	78264	0.02461	0.002460 (a)
16 4,4'-DDE	14.120	14.120	0.000	85555	0.02585	0.002585 (a)
17 Dieldrin	14.246	14.246	0.000	74681	0.02250	0.002250 (aR)
20 Endrin	14.826	14.826	0.000	64483	0.02247	0.002247 (aR)

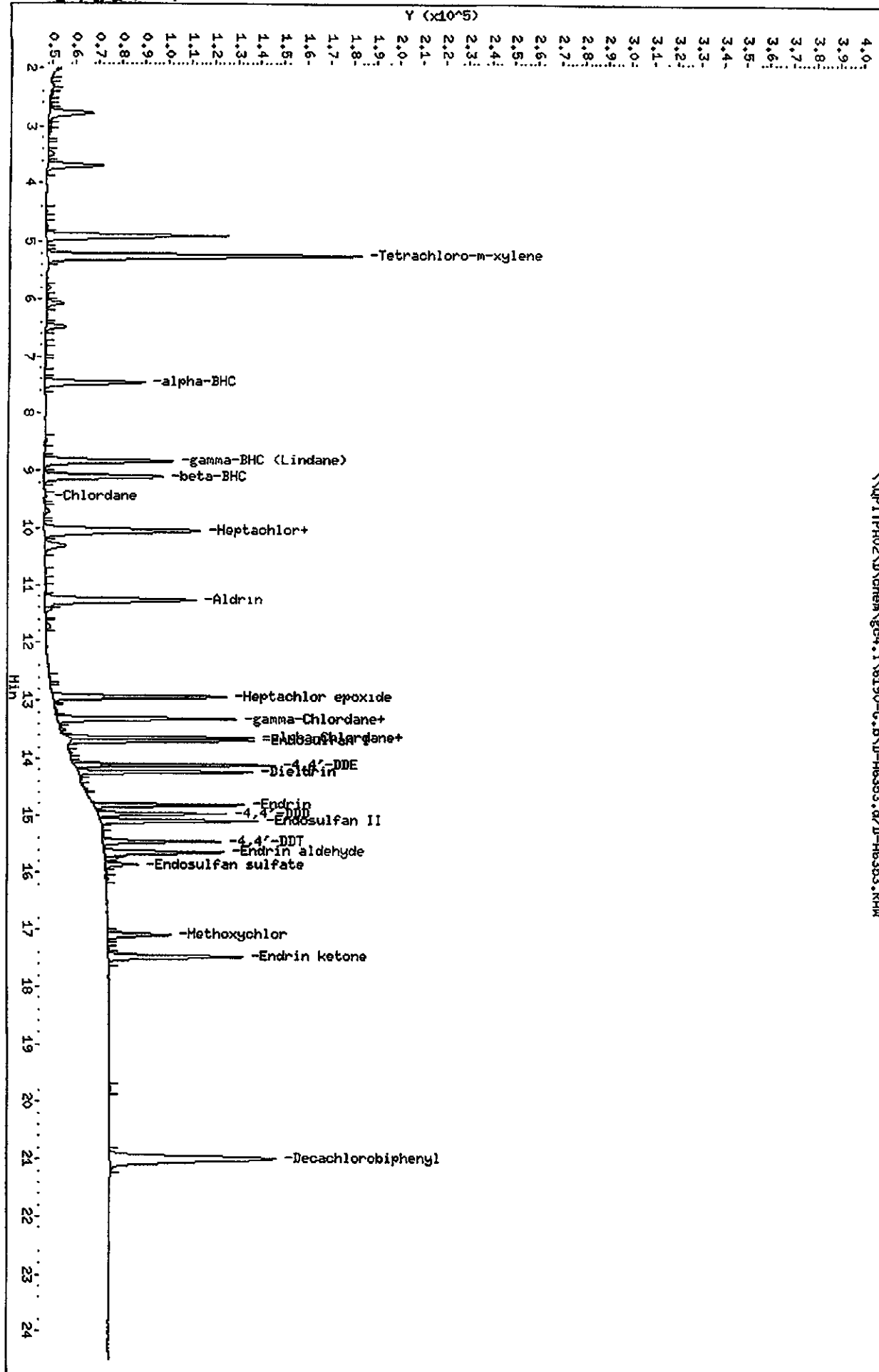
Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6353.d
 Report Date: 29-Sep-2000 15:57

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD	14.980	14.980	0.000	55347	0.02348	0.002348(a)
18 Toxaphene	Compound Not Detected.					
22 Endosulfan II	15.106	15.106	0.000	67573	0.02276	0.002276(a)
23 4,4'-DDT	15.453	15.453	0.000	50331	0.02090	0.002090(aR)
24 Endrin aldehyde	15.640	15.640	0.000	51186	0.02326	0.002326(a)
26 Endosulfan sulfate	15.860	15.860	0.000	14069	0.00697	0.0006971(a)
25 Methoxychlor	17.100	17.100	0.000	27075	0.02828	0.002828(a)
27 Endrin ketone	17.480	17.480	0.000	57778	0.02496	0.002496(a)
\$ 30 Decachlorobiphenyl	21.000	21.000	0.000	71130	0.04281	0.004281(aR)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

6721137



Data File: \\QIPITP02\chem\gc4.1\6190-G.b\D-A6353.d
 Date: 29-SEP-2000 12:55
 Client ID: DF/24-A/0265/SDCHS
 Sample Info: DKWK340L.6190-G.b, PEST, sub, 3,
 Volume Injected (uL): 1.0
 Column phase: DB608

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

\\QIPITP02\chem\gc4.1\6190-G.b\D-A6353.d\D-A6353.RAW

UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8081A

Pesticides (8081A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK310M

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: 27

QC Batch: 0271574

Client Sample Id: DF/24-A/0265/SDC/002

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
72-20-8	Endrin	0.00222	
76-44-8	Heptachlor	0.00213	
1024-57-3	Heptachlor epoxide	0.00220	
58-89-9	Lindane	0.00131	
72-43-5	Methoxychlor	0.00280	

6721-139

Data File: \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6354.d
 Report Date: 29-Sep-2000 16:21

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc4.i\6190-G.b\D-A6354.d
 Lab Smp Id: DKVK310M Client Smp ID: DF/24-A/0265/SDCMSD
 Inj Date : 29-SEP-2000 13:23
 Operator : 1891 Inst ID: gc4.i
 Smp Info : DKVK310M, 6190-G.b, , PEST.sub, , 3,
 Misc Info : 220208002D
 Comment :
 Method : \\QPITPA02\D\chem\gc4.i\6190-G.b\PESTA.m
 Meth Date : 29-Sep-2000 16:20 gc Quant Type: ESTD
 Cal Date : 20-SEP-2000 02:50 Cal File: D-A6138.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: PEST.sub
 Target Version: 4.04
 Processing Host: PITPC085

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

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
\$ 1 Tetrachloro-m-xylene	5.260	5.260	0.000	132325	0.03534	0.003534 (aR)
5 alpha-BHC	7.466	7.466	0.000	42343	0.00936	0.0009355 (a)
6 gamma-BHC (Lindane)	8.833	8.833	0.000	54390	0.01313	0.001313 (aR)
7 beta-BHC	9.113	9.106	0.007	50636	0.02210	0.002210 (a)
9 Chlordane	9.453	9.466	-0.013	819	0.23143	0.02314 (a)
10 Heptachlor	10.053	10.053	0.000	65689	0.02131	0.002131 (aR)
8 delta-BHC	Compound Not Detected.					
11 Aldrin	11.266	11.266	0.000	62971	0.02061	0.002061 (aR)
12 Heptachlor epoxide	12.946	12.946	0.000	72929	0.02197	0.002197 (a)
13 gamma-Chlordane	13.320	13.320	0.000	75790	0.02195	0.002195 (a)
14 alpha-Chlordane	13.646	13.646	0.000	78368	0.02282	0.002282 (a)
15 Endosulfan I	13.686	13.693	-0.007	78022	0.02453	0.002453 (a)
16 4,4'-DDE	14.120	14.120	0.000	84151	0.02542	0.002542 (a)
17 Dieldrin	14.246	14.246	0.000	73287	0.02208	0.002208 (aR)
20 Endrin	14.826	14.826	0.000	63706	0.02220	0.002220 (aR)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (mg/L)
=====	==	=====	=====	=====	=====	=====
21 4,4'-DDD	14.980	14.980	0.000	55487	0.02354	0.002354 (a)
18 Toxaphene	Compound Not Detected.					
22 Endosulfan II	15.106	15.106	0.000	66724	0.02247	0.002247 (a)
23 4,4'-DDT	15.453	15.453	0.000	49745	0.02066	0.002066 (aR)
24 Endrin aldehyde	15.640	15.640	0.000	50659	0.02302	0.002302 (a)
26 Endosulfan sulfate	15.860	15.860	0.000	13830	0.00685	0.0006853 (a)
25 Methoxychlor	17.100	17.100	0.000	26765	0.02796	0.002796 (a)
27 Endrin ketone	17.480	17.480	0.000	57158	0.02470	0.002470 (a)
\$ 30 Decachlorobiphenyl	21.000	21.000	0.000	70486	0.04242	0.004242 (aR)

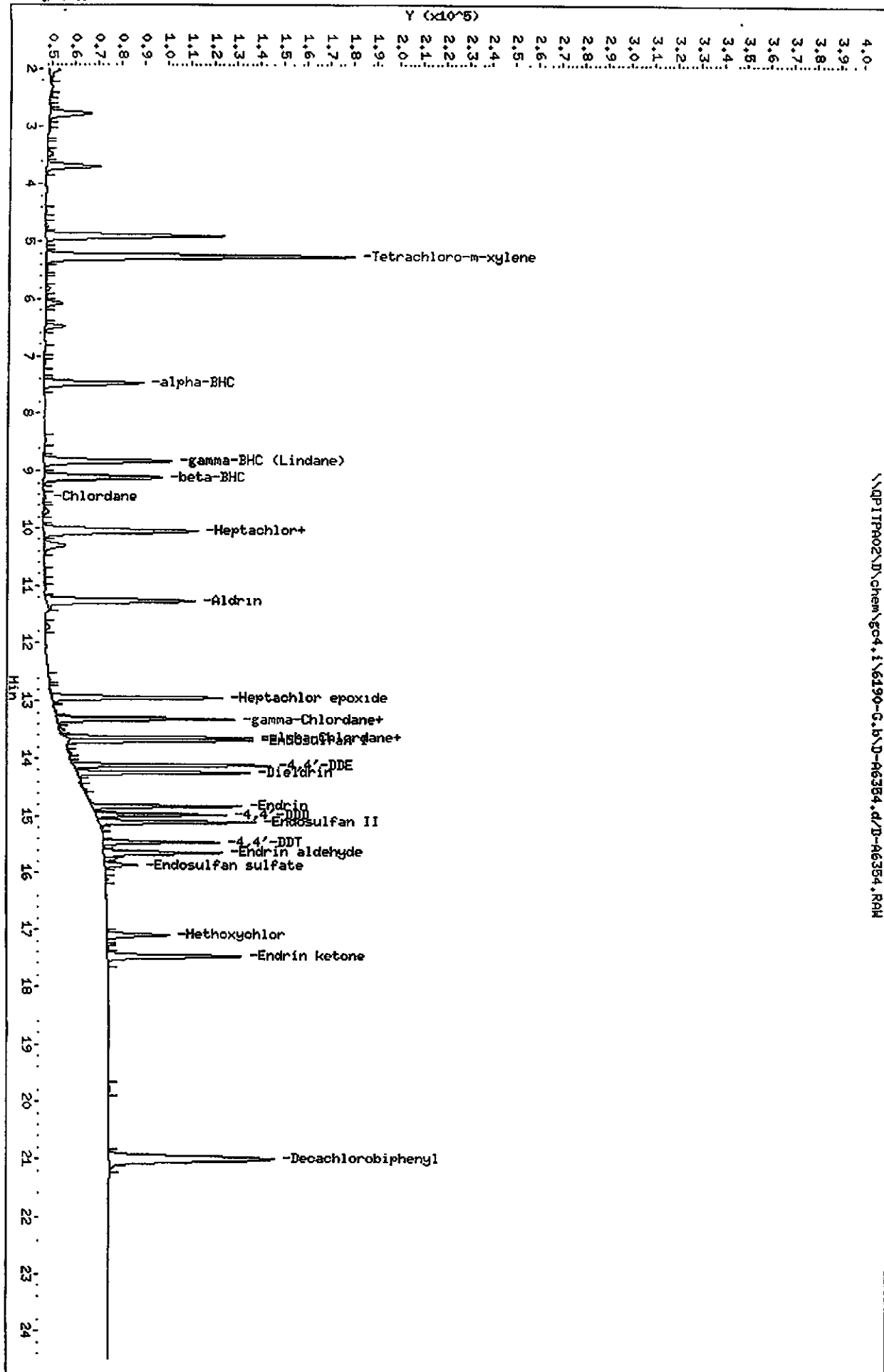
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation (BLOQ).
- R - Spike/Surrogate failed recovery limits.

6721141

Data file: \\QPIITP002\J\chem\gc4.1\6190-G.b\D-A6354.d
 Date : 29-SEP-2000 13:23
 Client ID: DF/24-A/0265/SDCHSD
 Sample Info: DKX310H,6190-G.b,PEST.sub./3,
 Volume Injected (uL): 1.0
 Column phase: DB608

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



6721142

**PESTICIDE
MISCELLANEOUS**

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\6190-G.SEQ
 Created by : DE11/02/98 on : 9/19/00 15:54
 Edited by : DE09/18/00 on : 9/19/00 15:56
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
 REVIEWED BY:

6721144

6

Number of Times Edited : 1

6190G.PDF

Sequence File Header Information:

Number of Rows : 16
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A								Addend	Norm factor
				Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil. Factor	Mult	Divisor			
1	Std Check	EVALB, 6190-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
2	Cal:Replace	MEDTOX, 6190-G.b	190-98-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
3	Cal:Replace	MEDCHLOR, 6190-G	190-90-4		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
4	Cal:Replace	LOWA, 6190-G.b,,	190-100-6		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
5	Cal:Replace	MLOWA, 6190-G.b,	190-100-7		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
6	Cal:Replace	MEDA, 6190-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
7	Cal:Replace	MHIGHA, 6190-G.b	190-100-9		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
8	Cal:Replace	HIGHA, 6190-G.b,	190-100-10		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
9	Cal:Replace	LOWB, 6190-G.b,,	190-100-12		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
10	Cal:Replace	MLOWB, 6190-G.b,	190-100-13		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
11	Cal:Replace	MEDB, 6190-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
12	Cal:Replace	MHIGHB, 6190-G.b	190-101-1		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
13	Cal:Replace	HIGHB, 6190-G.b,	190-101-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
14	Std Check	2ND A, 6190-G.b,	190-82-2		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
15	Std Check	2ND B, 6190-G.b,	190-82-5		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
16	Std Check	EVALB, 6190-G.b,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Report Format	Sequence Process Information - Channel A							
								Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT	Out Dev
1	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A6126	D-A6126		D-A6126	-	-	-	LPT1:
2	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A6127	D-A6127		D-A6127	N	MED	N	LPT1:,LP
3	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A6128	D-A6128		D-A6128	N	MED	N	LPT1:,LP
4	-	1	4	GEN4C	GEN4A	122190A	INDA	D-A6129	D-A6129		D-A6129	N	LOW	N	LPT1:
5	-	1	5	GEN4C	GEN4A	122190A	INDA	D-A6130	D-A6130		D-A6130	N	MLOW	N	LPT1:
6	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A6131	D-A6131		D-A6131	N	MLOW	N	LPT1:
7	-	1	7	GEN4C	GEN4A	122190A	INDA	D-A6132	D-A6132		D-A6132	N	MLOW	N	LPT1:
8	-	1	8	GEN4C	GEN4A	122190A	INDA	D-A6133	D-A6133		D-A6133	N	MLOW	N	LPT1:
9	-	1	9	GEN4C	GEN4A	122190A	INDA	D-A6134	D-A6134		D-A6134	N	LOW	N	LPT1:
10	-	1	10	GEN4C	GEN4A	122190A	INDA	D-A6135	D-A6135		D-A6135	N	MLOW	N	LPT1:
11	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A6136	D-A6136		D-A6136	N	MLOW	N	LPT1:
12	-	1	12	GEN4C	GEN4A	122190A	INDA	D-A6137	D-A6137		D-A6137	N	MLOW	N	LPT1:
13	-	1	13	GEN4C	GEN4A	122190A	INDA	D-A6138	D-A6138		D-A6138	N	MLOW	N	LPT1:
14	-	1	23	GEN4C	GEN4A	122190A	INDA	D-A6139	D-A6139		D-A6139	-	-	-	LPT1:
15	-	1	24	GEN4C	GEN4A	122190A	INDA	D-A6140	D-A6140		D-A6140	-	-	-	LPT1:
16	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A6141	D-A6141		D-A6141	-	-	-	LPT1:

6721145

Turbochrom Sequence File : H:\ACQUIRE\MET_SEQ\6290-G.SEQ
 Created by : DE11/02/98 on : 9/29/00 15:11
 Edited by : LM09/29/00 on : 9/29/00 15:15
 Description : QUANTERRA PGH 8081 RUN ON GC#4 DB608/DB1701
 REVIEWED BY:

Number of Times Edited : 1

Sequence File Header Information:

Number of Rows : 12
 Instrument Type : 760 / 900 Series Intelligent Interface
 Injection Type : SINGLE

Row	Type	Sample Name	Sample Number	Sequence Sample Descriptions - Channel A								Addend	Norm. factor
				Study Name	Sample Amount	ISTD Amount	Sample Volume	Dil Factor	Mult	Divisor			
1	Std Check	EVALB,6190-G.b,,	190-88-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
2	Std Check	MEDA,6190-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
3	Std Check	MEDB,6190-G.b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
4	Sample	DL628101,6190-G	220208BLK		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
5	Sample	DL628102,6190-G	220208LCS		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
6	Sample	DKVK310L,6190-G	220208002S		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
7	Sample	DKVK310M,6190-G	220208002D		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
8	Sample	DKVJW104,6190-G	220208001		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
9	Sample	DKVK3104,6190-G	220208002		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
10	Sample	DKVK4104,6190-G	220208003		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
11	Std Check	MEDA,6190-G.b,,	190-100-8		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	
12	Std Check	MEDB,6190-G b,,	190-100-14		1.000	1.000	1.000	1.000	1.000	1.000	0.000	100.000	

Row	Site	Rack	Vial	Inst Method	Process Method	Calib Method	Sequence Process Information - Channel A							
							Report Format	Raw File	Result File	Baseline File	Modified Raw File	Cal Rpt	Level Name	Update RT
1	-	1	1	GEN4C	GEN4A	122190A	EVAL	D-A6348	D-A6348		D-A6348	-	-	-
2	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A6349	D-A6349		D-A6349	-	-	-
3	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A6350	D-A6350		D-A6350	-	-	-
4	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A6351	D-A6351		D-A6351	-	-	-
5	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A6352	D-A6352		D-A6352	-	-	-
6	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A6353	D-A6353		D-A6353	-	-	-
7	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A6354	D-A6354		D-A6354	-	-	-
8	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A6355	D-A6355		D-A6355	-	-	-
9	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A6356	D-A6356		D-A6356	-	-	-
10	-	1	2	GEN4C	GEN4A	122190A	TOX	D-A6357	D-A6357		D-A6357	-	-	-
11	-	1	6	GEN4C	GEN4A	122190A	INDA	D-A6358	D-A6358		D-A6358	-	-	-
12	-	1	11	GEN4C	GEN4A	122190A	INDA	D-A6359	D-A6359		D-A6359	-	-	-

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>
13D CLP1	DKVJW-1-04	— — —	267520	399411	A-36-QJ	C01220208	001		SOLID	0	3 1
13D CLP1	DKVK3-1-04	— — —	267521	399411	A-36-QJ	C01220208	002		SOLID	0	3 1
13D CLP1	DKVK4-1-04	— — —	267522	399411	A-36-QJ	C01220208	003		SOLID	0	3 1

RELINQUISHED BY

P. Yushinski
P. Yushinski

RECEIVED BY

P. Yushinski
P. Yushinski

DATE/TIME

9-27-00 1545
9-27-00 2310

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

6721147

HERBICIDE DATA

**HERBICIDE
QC SUMMARY**

6721149

SW846 8151A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

QESSDG:

Lot #: C0I220208

	CLIENT ID.	SRG01	TOT OUT
	=====	=====	=====
01	DF/24-A/0265/SDC/001	74	00
02	DF/24-A/0265/SDC/002	55	00
03	DF/24-A/0265/SDC/003	75	00
04	METHOD BLK. DL636101	73	00
05	LCS DL636102	87	00
06	DF/24-A/0265/SDC/002 D	75	00
07	DF/24-A/0265/SDC/002 S	82	00

SURROGATES

SRG01 = DCAA

QC LIMITS

(42-125)

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

FORM II

SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Lot #: C0I270000

WO #: DL636102

BATCH: 0271583

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	% REC	QC LIMITS REC	QUAL
=====	=====	=====	=====	=====	=====
2,4-D	0.160	0.123	77	28 - 136	
2,4,5-TP (Silvex)	0.0400	0.0301	75	50 - 128	

NOTES(S) :

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

6721151

SW846 8151A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/002

Lot #: C0I220208

WO #: DKVK310N

BATCH: 0271583

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENT. (mg/L)	MS CONCENT. (mg/L)	MS % REC	LIMITS REC	QUAL
2,4-D	0.160	ND	0.116	72	35 - 133	
2,4,5-TP (Silvex)	0.0400	ND	0.0295	74	50 - 131	

NOTES (S) :

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: 0 out of 2 outside limits

COMMENTS:

FORM III

SW846 8151A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: UXB INTERNATIONAL

Lab Code: QESPIT

SDG No:

Matrix Spike ID: DF/24-A/0265/SDC/002

Lot #: C0I220208

WO #: DKVK310P

BATCH: 0271583

COMPOUND	SPIKE	MSD	MSD	% QC LIMITS		QUAL
	ADDED (mg/L)	CONCENT. (mg/L)	% REC	% RPD	RPD REC	
2,4-D	0.160	0.120	75	3.5	20 35 - 133	
2,4,5-TP (Silvex)	0.0400	0.0297	74	0.67	20 50 - 131	

NOTES(S) :

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

RPD: 0 out of 2 outside limits
 Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III

6721153

SW846 8151A METHOD BLANK SUMMARY

BLANK WORKORDER NO.

DL636101

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: A-A60219.

Lot Number: C0I220208

Matrix: SOLID

Extraction Method:

Date Extracted: 09/27/00

Date Analyzed(1): 09/29/00

Date Analyzed(2): N/A

Time Analyzed(1): 00:01

Time Analyzed(2): N/A

Instrument ID(1): A/B

Instrument ID(2): N/A

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

GC Column(2): N/A

ID: N/A

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

	CLIENT ID.	SAMPLE WORK ORDER #	DATE ANALYZED (1)	DATE ANALYZED (2)
01	DF/24-A/0265/SDC/001	DKVJW105	09/28/00	N/A
02	DF/24-A/0265/SDC/002	DKVK310N S	09/28/00	N/A
03	DF/24-A/0265/SDC/002	DKVK310P D	09/28/00	N/A
04	DF/24-A/0265/SDC/002	DKVK3105	09/28/00	N/A
05	DF/24-A/0265/SDC/003	DKVK4105	09/28/00	N/A
06	CHECK SAMPLE	DL636102 C	09/28/00	N/A
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV

**HERBICIDE
SAMPLE DATA**

6721155

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVJW105

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: 11

QC Batch: 0271583

Client Sample Id: DF/24-A/0265/SDC/001

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60213.D
 Report Date: 29-Sep-2000 08:35

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60213.D
 Lab Smp Id: DKVJW105 Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 28-SEP-2000 21:09
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DKVJW105,6260.b
 Misc Info : 220208001
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Meth Date : 29-Sep-2000 08:12 morganw Quant Type: ESTD
 Cal Date : 26-SEP-2000 13:25 Cal File: A-A60173.D
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC085

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	4.417	4.411	0.006	19883	0.00151	0.003016(a)
\$ 2 DCAA	12.587	12.582	0.005	1294138	0.03709	0.07417(aR)
3 MCPP				Compound Not Detected.		
4 DICAMBA				Compound Not Detected.		
5 MCPA				Compound Not Detected.		
6 DICHLOROPROP				Compound Not Detected.		
7 2,4-D				Compound Not Detected.		
8 PENTACHLOROPHENOL				Compound Not Detected.		
9 2,4,5-TP(SILVEX)				Compound Not Detected.		
10 2,4,5-T				Compound Not Detected.		
11 DINOSEB				Compound Not Detected.		
12 2,4-DB	19.751	19.688	0.063	45070	0.00211	0.004211(a)

6721157

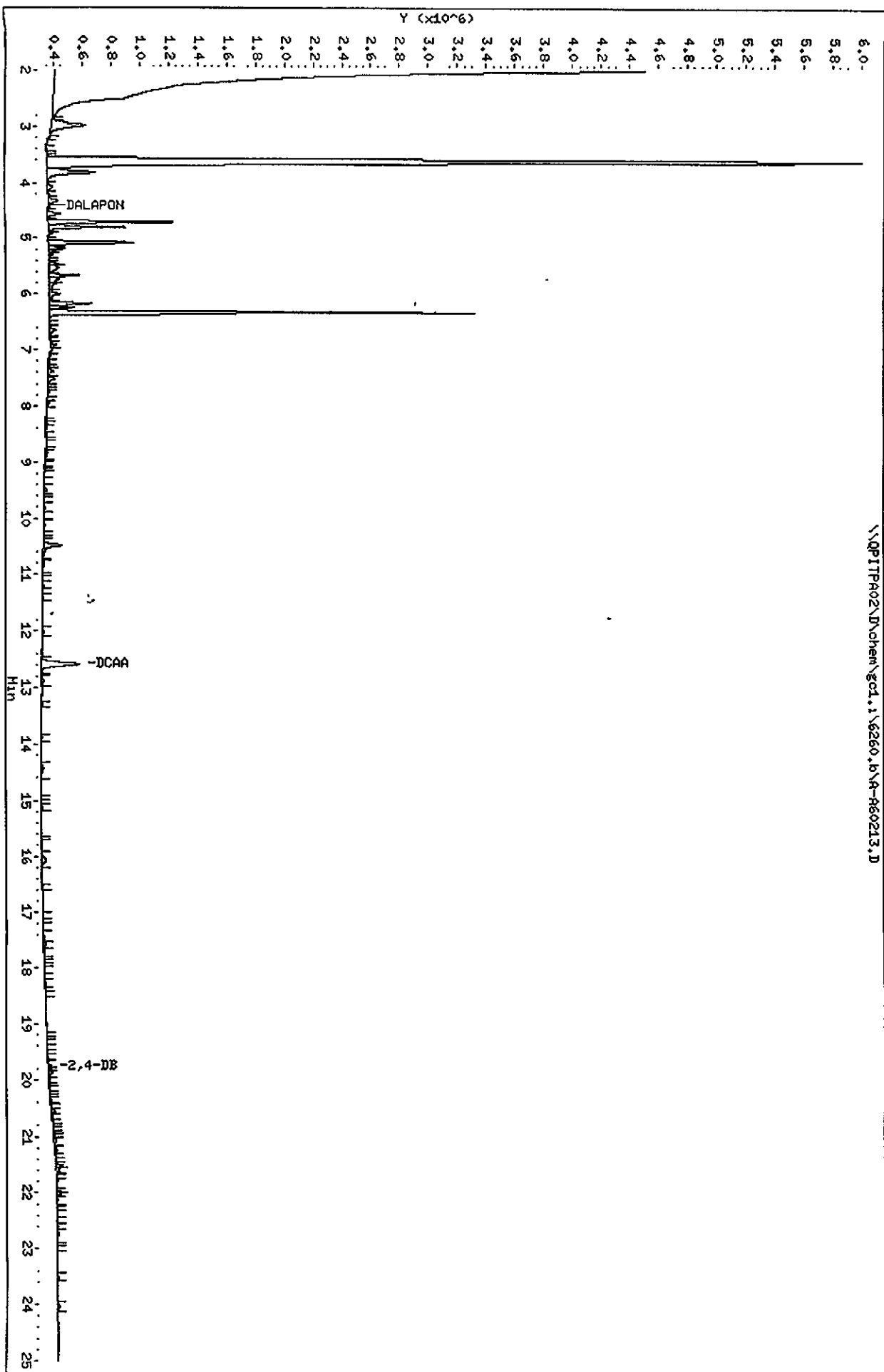
Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60213.D
Report Date: 29-Sep-2000 08:35

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\GPITPA02\Inchem\gc1.i\6260.b\A-A60213.D
Date: 28-SEP-2000 21:09
Client ID: DF/24-A/0265/SUC/00
Sample Info: DKVJM405.6260.b
Volume Injected (ul): 1.0
Column phase: RTX-50

Instrument: gc1.i
Operator: Q1797
Column diameter: 0.53



6721159

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK3105

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: 27

QC Batch: 0271583

Client Sample Id: DF/24-A/0265/SDC/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60214.D
 Report Date: 29-Sep-2000 08:35

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60214.D
 Lab Smp Id: DKVK3105 Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 28-SEP-2000 21:38
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DKVK3105,6260.b
 Misc Info : 220208002
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Meth Date : 29-Sep-2000 08:12 morganw Quant Type: ESTD
 Cal Date : 26-SEP-2000 13:25 Cal File: A-A60173.D
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC085

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	4.420	4.411	0.009	16308	0.00124	0.002474 (a)
\$ 2 DCAA	12.581	12.582	-0.001	968172	0.02774	0.05549 (aR)
3 MCPP				Compound Not Detected.		
4 DICAMBA				Compound Not Detected.		
5 MCPA				Compound Not Detected.		
6 DICHLOROPROP				Compound Not Detected.		
7 2,4-D				Compound Not Detected.		
8 PENTACHLOROPHENOL				Compound Not Detected.		
9 2,4,5-TP (SILVER)				Compound Not Detected.		
10 2,4,5-T				Compound Not Detected.		
11 DINOSEB				Compound Not Detected.		
12 2,4-DB				Compound Not Detected.		

6721161

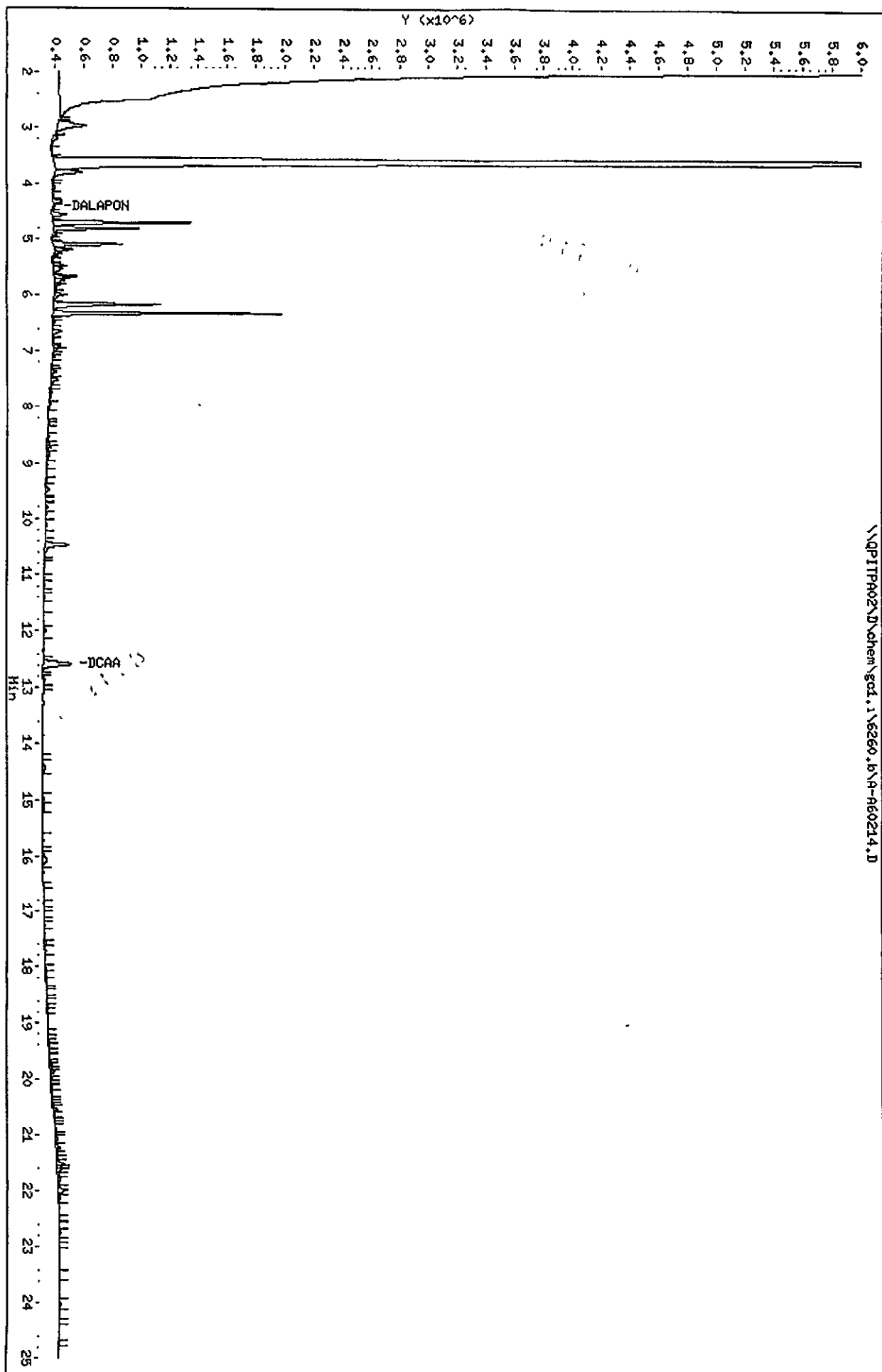
Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60214.D
Report Date: 29-Sep-2000 08:35

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \AQITPA02\chem\gcd.1\6260.b\A-860214.D
Date: 28-SEP-2000 21:38
Client ID: DF724-A/0265/SMC/00
Sample Info: DKVK3105.6260.b
Volume Injected (uL): 1.0
Column phase: RTX-50

Instrument: gcd.1
Operator: 01797
Column diameter: 0.53



6721163

UXB INTERNATIONAL

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 003

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK4105

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: 15

QC Batch: 0271583

Client Sample Id: DF/24-A/0265/SDC/003

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

FORM I

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60215.D
 Report Date: 29-Sep-2000 08:36

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60215.D
 Lab Smp Id: DKVK4105 Client Smp ID: DF/24-A/0265/SDC/00
 Inj Date : 28-SEP-2000 22:06
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DKVK4105,6260.b
 Misc Info : 220208003
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Meth Date : 29-Sep-2000 08:12 morganw Quant Type: ESTD
 Cal Date : 26-SEP-2000 13:25 Cal File: A-A60173.D
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC085

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	4.411	4.411	0.000	20630	0.00156	0.003130 (a)
\$ 2 DCAA	12.586	12.582	0.004	1312420	0.03761	0.07522 (aR)
3 MCPP				Compound Not Detected		
4 DICAMBA				Compound Not Detected		
5 MCPA				Compound Not Detected		
6 DICHLOROPROP				Compound Not Detected.		
7 2,4-D				Compound Not Detected.		
8 PENTACHLOROPHENOL				Compound Not Detected.		
9 2,4,5-TP (SILVEX)				Compound Not Detected.		
10 2,4,5-T				Compound Not Detected.		
11 DINOSEB				Compound Not Detected.		
12 2,4-DB				Compound Not Detected.		

6721165

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60215.D
Report Date: 29-Sep-2000 08:36

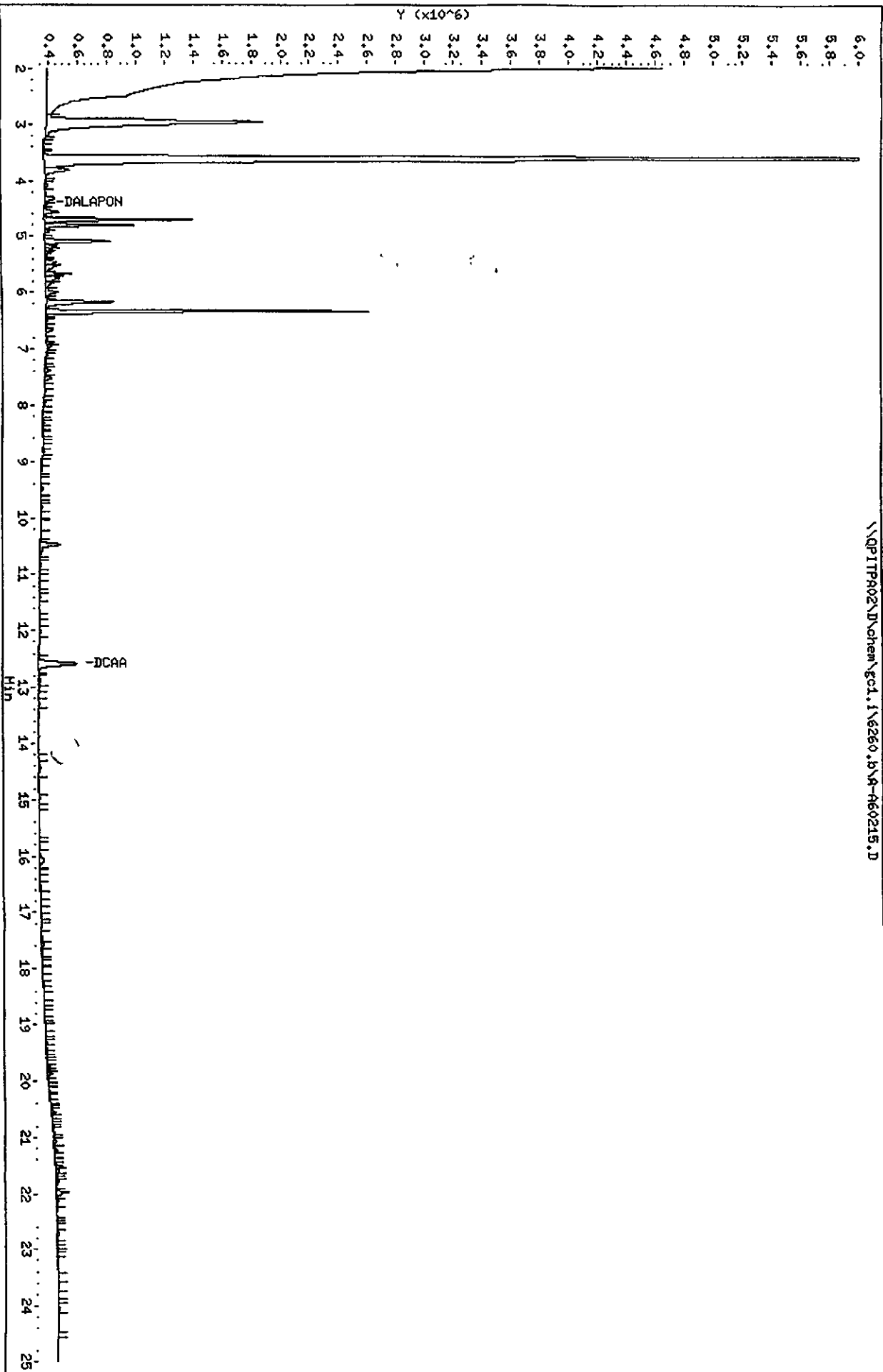
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\QPIPP02\N\chem\gc1.1\6260.b\A-A60215.D
Date: 28-SEP-2000 22:06
Client ID: DF/24-A/0265/SDC/00
Sample Info: DKV4105,6260.b
Volume Injected (uL): 1.0
Column phase: RTX-50

Instrument: gc1.1
Operator: 01797
Column diameter: 0.53

\\QPIPP02\N\chem\gc1.1\6260.b\A-A60215.D



6721167

**HERBICIDE
CALIBRATION DATA**

Report Date : 28-Sep-2000 11:53

6D
68901A
RTX-50

6721168

STL - Pittsburgh

COMPOUND LISTING

Method file : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
Quant Method : ESTD Target Version : 4.04
Last Update : 28-Sep-2000 11:52 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	4.411	4.341-4.481	1.32e+007
\$ 2 DCAA	12.582	12.512-12.652	3.49e+007
3 MCPP	13.240	13.170-13.310	5.07e+004
4 DICAMBA	13.415	13.345-13.485	2.41e+007
5 MCPA	14.589	14.519-14.659	6.05e+004
6 DICHLOROPROP	15.605	15.535-15.675	5.48e+006
7 2,4-D	17.167	17.097-17.237	1.04e+007
8 PENTACHLOROPHENOL	18.057	17.987-18.127	1.57e+008
9 2,4,5-TP(SILVEX)	18.459	18.389-18.529	1.96e+008
10 2,4,5-T	19.220	19.150-19.290	1.76e+008
11 DINOSEB	19.536	19.466-19.606	1.21e+008
12 2,4-DB	19.689	19.619-19.759	2.14e+007

6721169

Report Date : 26-Sep-2000 14:34

6E
68901A
RTX-SD

STL - Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 26-SEP-2000 11:29
 End Cal Date : 26-SEP-2000 13:25
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.04
 Integrator : Falcon
 Method file : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Cal Date : 26-Sep-2000 14:33 gc
 Curve Type : Average

Calibration File Names:

Level 1: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60169.D
 Level 2: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60170.D
 Level 3: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60171.D
 Level 4: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60172.D
 Level 5: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60173.D

	0.00500	0.01000	0.02500	0.05000	0.10000		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
1 DALAPON	14418818	13762273	13332187	12474556	11924358	13182438	7.558
3 MCPP	74550	63547	51037	37033	27497	50733	37.648<-
4 DICAMBA	25319906	24717089	24952612	23099577	22509894	24119816	5.130
5 MCPA	92305	75701	59224	42744	32738	60542	39.867<-
6 DICHLOROPROP	5994764	5863231	5730354	5073153	4752590	5482818	9.860
7 2,4-D	11412227	11108659	10719001	9597259	9038135	10375056	9.787
8 PENTACHLOROPHENOL	150782707	154386090	163798120	157781720	158638660	157077460	3.102
9 2,4,5-TP(SILVEX)	193156762	198528190	203339668	192288290	191112345	195685051	2.625
10 2,4,5-T	177201708	179149714	182621280	171647322	169314348	175986874	3.097
11 DINOSEB	119506625	120453386	125055984	119872165	120572736	121092179	1.865
12 2,4-DB	22829716	22732607	21979124	20106059	19383846	21406270	7.347
=====							
\$ 2 DCAA	38413662	37048282	36232949	32418859	30365071	34895765	9.661

115010
AVG

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60209.D
 Report Date: 28-Sep-2000 16:17

7E
 68901A 6721170
 RTX-50

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 28-SEP-2000 15:48
 Lab File ID: A-A60209.D Init. Cal. Date(s): 26-SEP-2000 26-SEP-2000
 Analysis Type: Init. Cal. Times: 11:29 13:25
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m

COMPOUND	RRF	RPO	MIN	MAX
1 DALAPON	13182438	13581526	0.010	3.0
2 DCAA	34895765	36177650	0.010	3.7
3 MCPP	50733	50931	0.010	0.4
4 DICAMBA	24119816	24755294	0.010	2.6
5 MCPA	60542	59244	0.010	-2.1
6 DICHLOROPROP	5482818	5708750	0.010	4.1
7 2,4-D	10375056	10741857	0.010	3.5
8 PENTACHLOROPHENOL	157077460	160155263	0.010	2.0
9 2,4,5-TP(SILVEX)	195685051	200656066	0.010	2.5
10 2,4,5-T	175966874	179283697	0.010	1.9
11 DINOSEB	121092179	135523150	0.010	11.9
12 2,4-DB	21406270	21490544	0.010	0.4

6721171

ME

68901A

RTX-50

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60220.D
 Report Date: 29-Sep-2000 08:12

STL - Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gc1.i Injection Date: 29-SEP-2000 00:30
 Lab File ID: A-A60220.D Init. Cal. Date(s): 26-SEP-2000 26-SEP-2000
 Analysis Type: Init. Cal. Times: 11:29 13:25
 Lab Sample ID: MHERB Quant Type: ESTD
 Method: \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m

COMPOUND	RRF	RFO	MIN	RRP	%D	MAX
=====	=====	=====	=====	=====	=====	=====
1 DALAPON	13182438	13684465	0.010	3.8	15.0	
\$ 2 DCAA	34895765	36911246	0.010	5.8	15.0	
3 MCPP	50733	51848	0.010	2.2	15.0	
4 DICAMBA	24119816	25304118	0.010	4.9	15.0	
5 MCPA	60542	59734	0.010	-1.3	15.0	
6 DICHLOROPROP	5482818	5758774	0.010	5.0	15.0	
7 2,4-D	10375056	10929142	0.010	5.3	15.0	
8 PENTACHLOROPHENOL	157077460	164341541	0.010	4.6	15.0	
9 2,4,5-TP (SILVEX)	195685051	204331374	0.010	4.4	15.0	
10 2,4,5-T	175986874	182282607	0.010	3.6	15.0	
11 DINOSEB	121092179	138419843	0.010	14.3	15.0	
12 2,4-DB	21406270	22098651	0.010	3.2	15.0	

8D
PESTICIDE ANALYTICAL SEQUENCE

6721172

Lab Name: Contract:
Lab Code: Case No.: SAS No.: SDG No.: C0I220208
GC Column: RTX-50 ID: 0.53 (mm) Init. Calib. Date(s): 09/26/00 09/26/00
Instrument ID: GC1

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 12.58					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	LHERB	09/26/00	1129	12.59	
02	MLHERB	09/26/00	1158	12.59	
03	MHERB	09/26/00	1227	12.59	
04	MHHERB	09/26/00	1256	12.59	
05	HHERB	09/26/00	1325	12.59	
06	MHERB	09/28/00	1548	12.59	
07	DF/24-A/0265 DKVJW105	09/28/00	2109	12.59	
08	DF/24-A/0265 DKVK3105	09/28/00	2138	12.58	
09	DF/24-A/0265 DKVK4105	09/28/00	2206	12.59	
10	DF/24-A/0265 DKVK310N	09/28/00	2235	12.58	
11	DF/24-A/0265 DKVK310P	09/28/00	2304	12.58	
12	LCS DL636102	09/28/00	2333	12.59	
13	BLK DL636101	09/29/00	0001	12.58	
14	MHERB	09/29/00	0030	12.58	
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.

6721173

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60169.D
 Report Date: 26-Sep-2000 14:39

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60169.D

Lab Smp Id: LHERB

Inj Date : 26-SEP-2000 11:29

Operator : 01797

Inst ID: gc1.i

Smp Info : LHERB,5240.b

Misc Info : 190-94-1

Comment :

Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m

Meth Date : 26-Sep-2000 14:37 gc

Quant Type: ESTD

Cal Date : 26-SEP-2000 11:29

Cal File: A-A60169.D

Als bottle: 4

Calibration Sample, Level: 1

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: all.sub

Target Version: 4.04

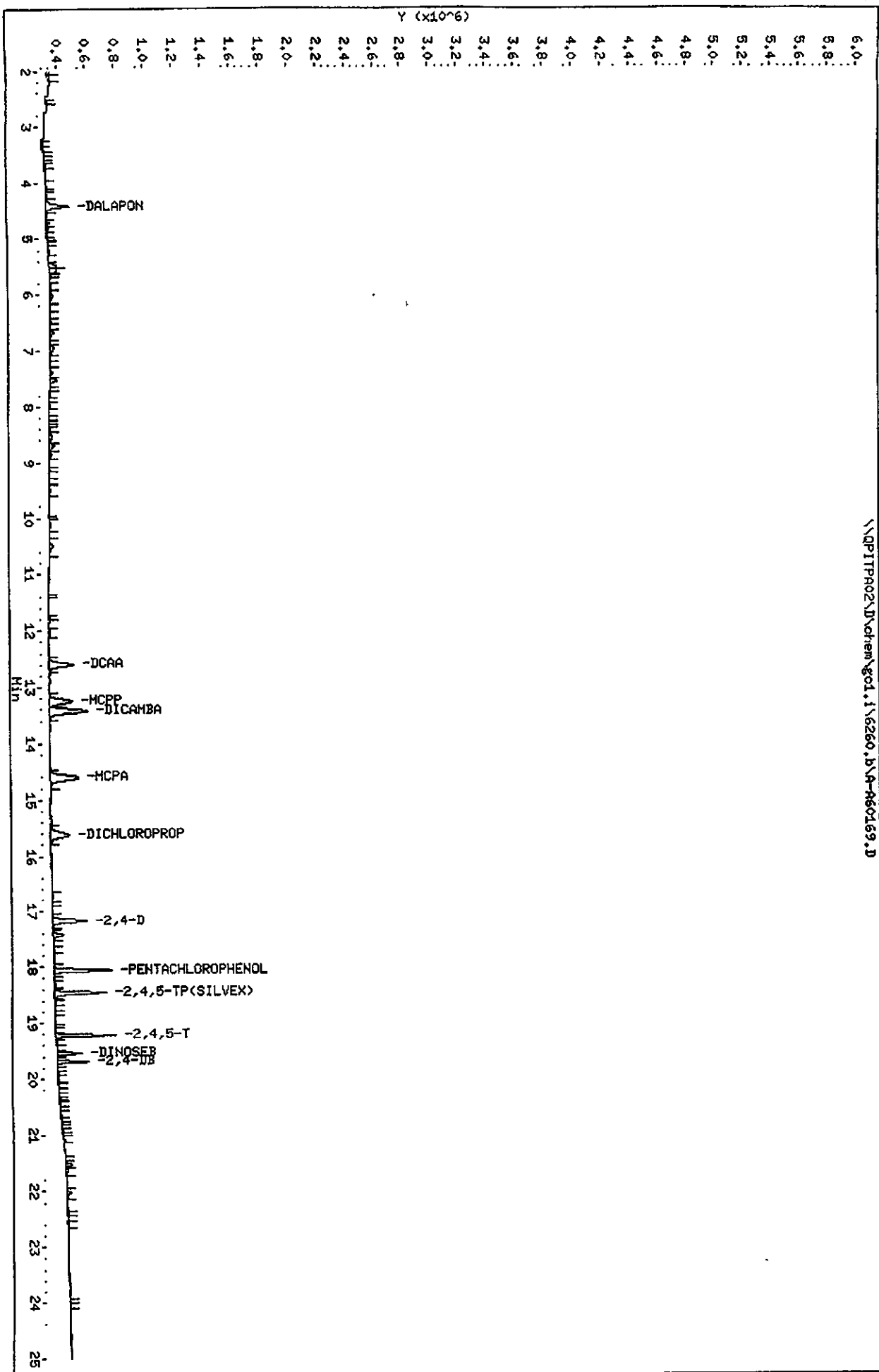
Processing Host: PITPC085

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	4.414	4.415	-0.001	158607	0.01100	0.01100
\$ 2 DCAA	12.593	12.590	0.003	818211	0.02130	0.02130
3 MCPP	13.245	13.246	-0.001	158047	2.12000	2.120
4 DICAMBA	13.423	13.419	0.004	268391	0.01060	0.01060
5 MCPA	14.597	14.599	-0.002	197532	2.14000	2.140
6 DICHLOROPROP	15.617	15.613	0.004	127089	0.02120	0.02120
7 2,4-D	17.177	17.171	0.006	240798	0.02110	0.02110
8 PENTACHLOROPHENOL	18.062	18.062	0.000	401082	0.00266	0.002660
9 2,4,5-TP(SILVEX)	18.462	18.462	0.000	1014073	0.00525	0.005250
10 2,4,5-T	19.222	19.222	0.000	933853	0.00527	0.005270
11 DINOSEB	19.540	19.540	0.000	378836	0.00317	0.003170
12 2,4-DB	19.692	19.692	0.000	481707	0.02110	0.02110

6721174

Data File: \\QPI1P02\chem\gol.1\6260.b\A-860169.D
Date: 26-SEP-2000 11:29
Client ID:
Sample Info: LHERB,5240.b
Column phase: RTX-50

Instrument: gol.1
Operator: 01797
Column diameter: 0.53



6721175

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60170.D
 Report Date: 26-Sep-2000 14:39

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60170.D
 Lab Smp Id: MLHERB
 Inj Date : 26-SEP-2000 11:58
 Operator : 01797
 Smp Info : MLHERB,5240.b
 Misc Info : 190-94-2
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Meth Date : 26-Sep-2000 14:37 gc
 Cal Date : 26-SEP-2000 11:58
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

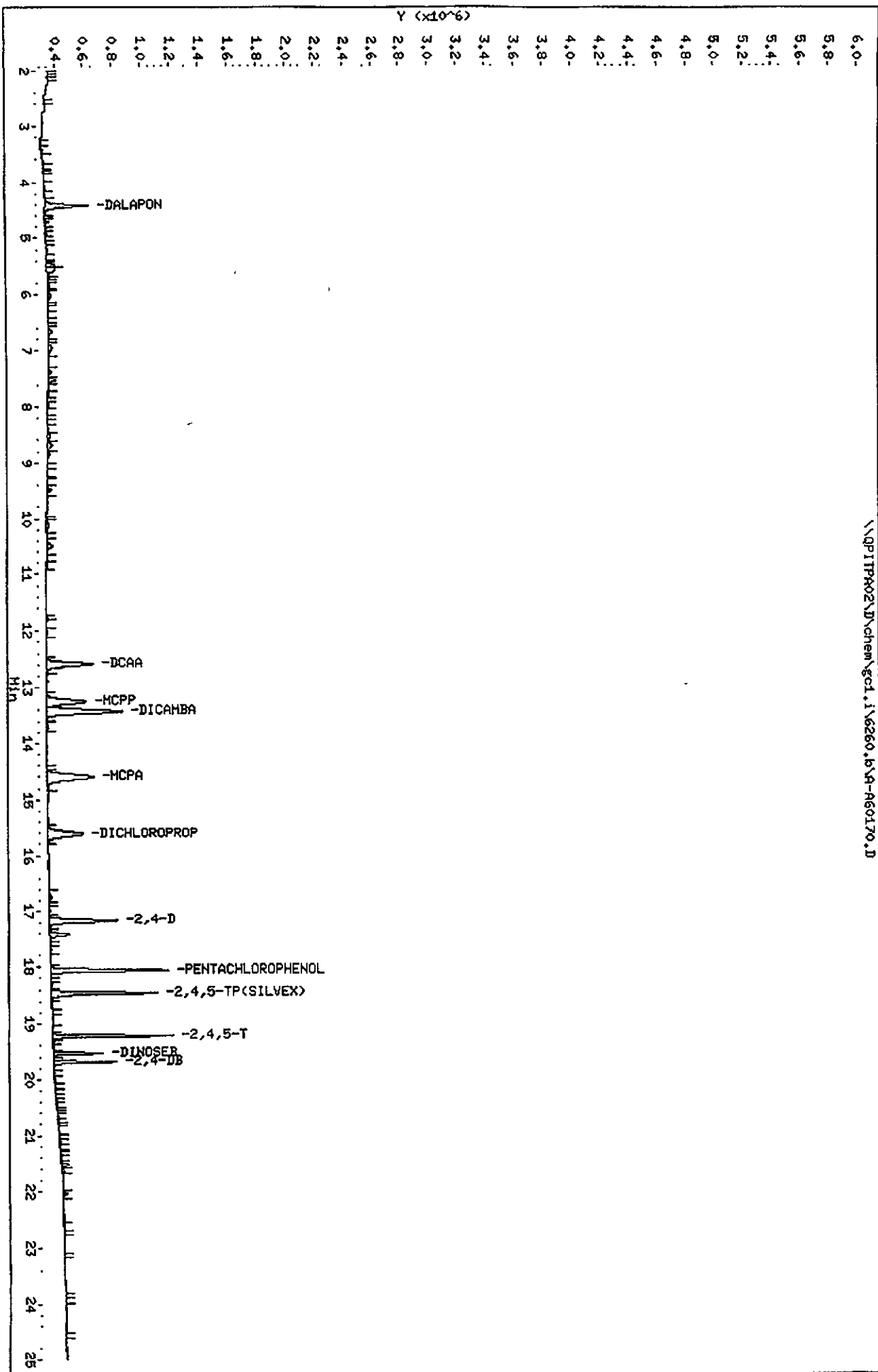
Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A60170.D
 Calibration Sample, Level: 2
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	4.416	4.415	0.001	302770	0.02200	0.02149
\$ 2 DCAA	12.592	12.590	0.002	1574552	0.04250	0.04173
3 MCPP	13.243	13.246	-0.003	270710	4.26000	3.920
4 DICAMBA	13.423	13.419	0.004	526474	0.02130	0.02104
5 MCPA	14.602	14.599	0.003	323999	4.28000	3.857
6 DICHLOROPROP	15.616	15.613	0.003	248601	0.04240	0.04193
7 2,4-D	17.174	17.171	0.003	472118	0.04250	0.04193
8 PENTACHLOROPHENOL	18.062	18.062	0.000	821334	0.00532	0.005383
9 2,4,5-TP(SILVEX)	18.464	18.462	0.002	2084546	0.01050	0.01064
10 2,4,5-T	19.223	19.222	0.001	1881072	0.01050	0.01056
11 DINOSEB	19.540	19.540	0.000	764879	0.00635	0.006375
12 2,4-DB	19.691	19.692	-0.001	959316	0.04220	0.04211

6721176

Data File: \\NPITPA02\chem\gcl.1\6260.b\A-A60170.D
Date: 26-SEP-2000 11:58
Client ID:
Sample Info: MLHERB, S240.b
Column phase: RTX-60

Instrument: gcl.1
Operator: 01797
Column diameter: 0.53



6721177

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60171.D
 Report Date: 26-Sep-2000 14:39

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60171.D
 Lab Smp Id: MHERB
 Inj Date : 26-SEP-2000 12:27
 Operator : 01797
 Smp Info : MHERB,6260.b
 Misc Info : 190-94-3
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Meth Date : 26-Sep-2000 14:37 gc
 Cal Date : 26-SEP-2000 12:27
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A60171.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	4.415	4.415	0.000	585283	0.04390	0.04230 (M)
§ 2 DCAA	12.590	12.590	0.000	3083424	0.08510	0.08282 (M)
3 MCPP	13.246	13.246	0.000	434836	8.52000	6.897 (M)
4 DICAMBA	13.419	13.419	0.000	1060486	0.04250	0.04242 (M)
5 MCPA	14.599	14.599	0.000	506961	8.56000	6.693 (M)
6 DICHLOROPROP	15.613	15.613	0.000	485934	0.08480	0.08288 (M)
7 2,4-D	17.171	17.171	0.000	912187	0.08510	0.08233 (M)
8 PENTACHLOROPHENOL	18.062	18.062	0.000	1742812	0.01064	0.01115 (M)
9 2,4,5-TP (SILVEX)	18.462	18.462	0.000	4290467	0.02110	0.02163 (M)
10 2,4,5-T	19.222	19.222	0.000	3853309	0.02110	0.02145 (M)
11 DINOSBB	19.540	19.540	0.000	1588211	0.01270	0.01305 (M)
12 2,4-DB	19.692	19.692	0.000	1857236	0.08450	0.08249 (M)

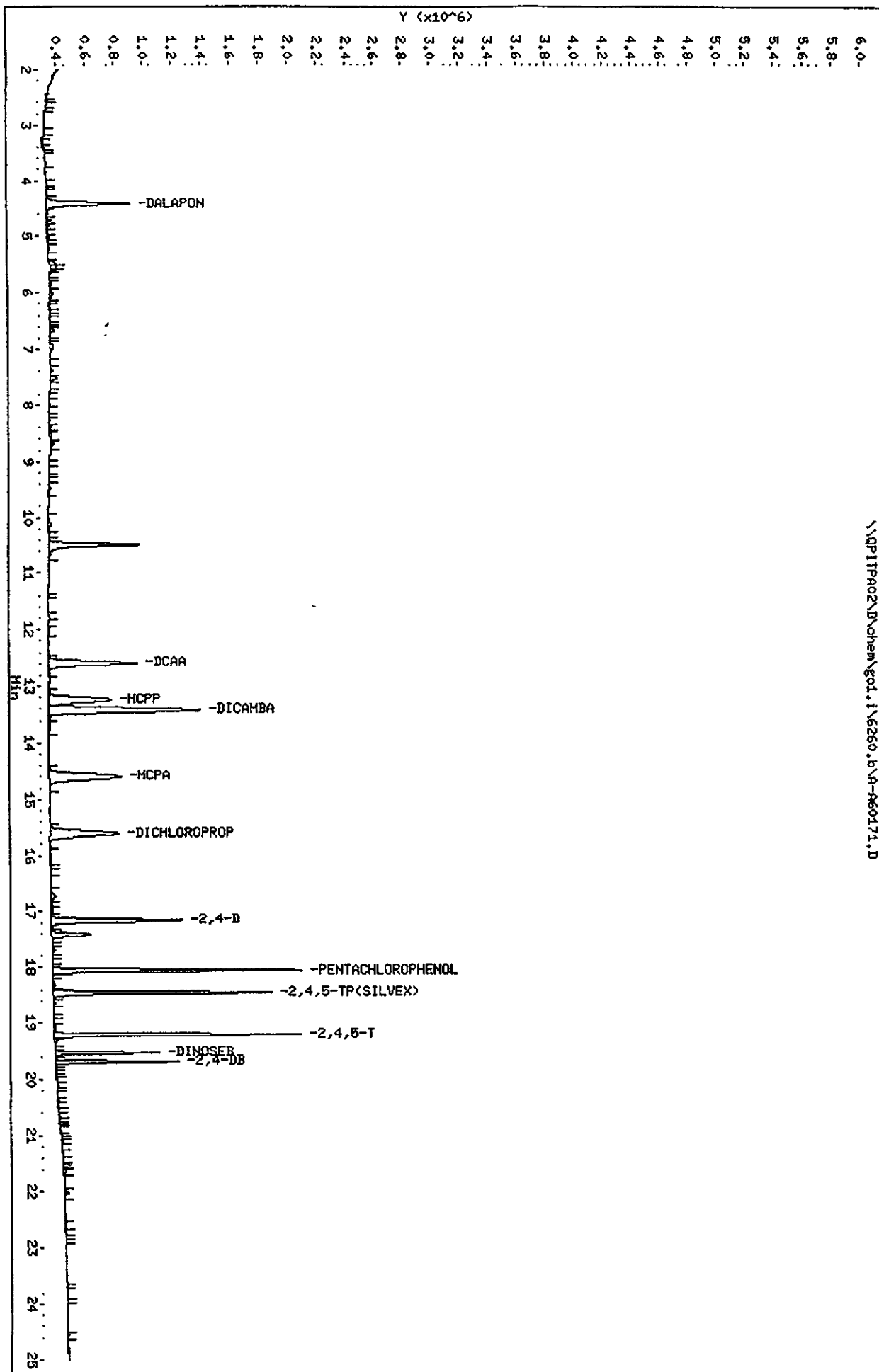
QC Flag Legend

M - Compound response manually integrated.

6721178

Data File: \\NPITPA02\chem\gcl.1\6260.b\A-A60171.D
Date: 26-SEP-2000 12:27
Client ID:
Sample Info: MHERB,6260.b
Column phase: RTX-50

Instrument: gcl.1
Operator: 01797
Column diameter: 0.53



6721179

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60172.D
Report Date: 26-Sep-2000 14:39

STL - Pittsburgh

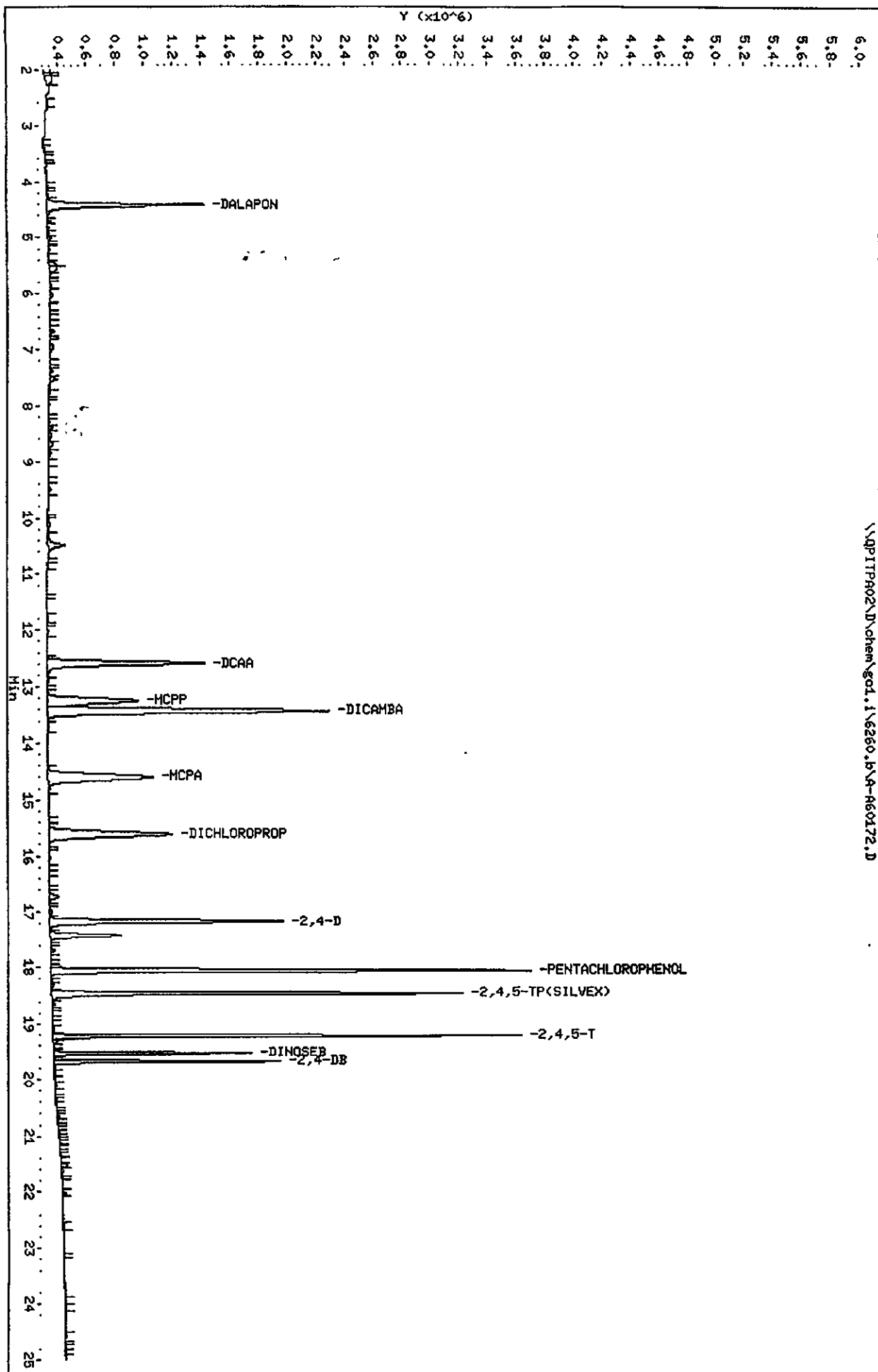
Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60172.D
Lab Smp Id: MHHERB
Inj Date : 26-SEP-2000 12:56
Operator : 01797
Smp Info : MHHERB, 6260.b
Misc Info : 190-94-4
Comment :
Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
Meth Date : 26-Sep-2000 14:37 gc
Cal Date : 26-SEP-2000 12:56
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A60172.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	4.415	4.415	0.000	1095266	0.08780	0.08115
\$ 2 DCAA	12.594	12.590	0.004	5511206	0.17000	0.1530
3 MCPP	13.249	13.246	0.003	629555	17.0000	11.13
4 DICAMBA	13.422	13.419	0.003	1965774	0.08510	0.08016
5 MCPA	14.600	14.599	0.001	730921	17.1000	10.83
6 DICHLOROPROP	15.616	15.613	0.003	862436	0.17000	0.1522
7 2,4-D	17.175	17.171	0.004	1631534	0.17000	0.1523
8 PENTACHLOROPHENOL	18.062	18.062	0.000	3357595	0.02128	0.02143
9 2,4,5-TP (SILVEX)	18.463	18.462	0.001	8095337	0.04210	0.04113
10 2,4,5-T	19.223	19.222	0.001	7243517	0.04220	0.04077
11 DINOSEB	19.540	19.540	0.000	3044753	0.02540	0.02512
12 2,4-DB	19.692	19.692	0.000	3397924	0.16900	0.1551

Data File: \\QPITPA02\chem\gcl.i\6260.b\A-A60172.D
Date: 26-SEP-2000 12:56
Client ID:
Sample Info: MHERB,6260.b
Column phase: RTX-50

Instrument: gcl.i
Operator: 01797
Column diameter: 0.63



6721101

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60173.D
Report Date: 26-Sep-2000 14:37

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60173.D

Lab Smp Id: HHERB

Inj Date : 26-SEP-2000 13:25

Operator : 01797

Inst ID: gc1.i

Smp Info : HHERB,6260.b

Misc Info : 190-94-5

Comment :

Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m

Meth Date : 26-Sep-2000 14:37 gc

Quant Type: ESTD

Cal Date : 26-SEP-2000 13:25

Cal File: A-A60173.D

Als bottle: 8

Calibration Sample, Level: 5

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: all.sub

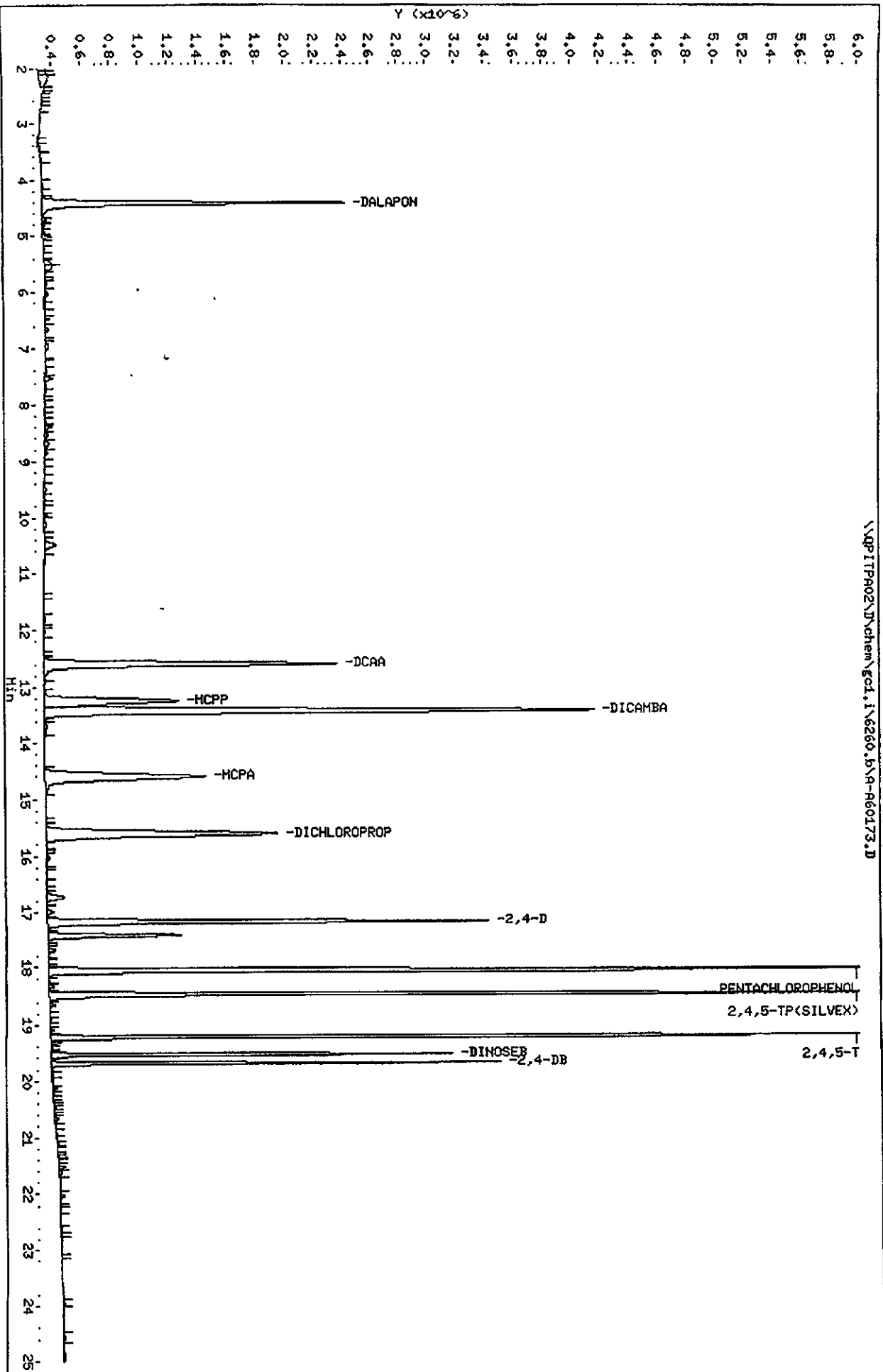
Target Version: 4.04

Processing Host: PITPC085

					AMOUNTS	
Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	4.414	4.415	-0.001	2098687	0.17600	0.1592
\$ 2 DCAA	12.589	12.590	-0.001	10324124	0.34000	0.2958
3 MCPP	13.244	13.246	-0.002	937632	34.1000	18.48
4 DICAMBA	13.422	13.419	0.003	3826682	0.17000	0.1586
5 MCPA	14.598	14.599	-0.001	1113091	34.0000	18.38
6 DICHLOROPROP	15.617	15.613	0.004	1611128	0.33900	0.2938
7 2,4-D	17.174	17.171	0.003	3072966	0.34000	0.2962
8 PENTACHLOROPHENOL	18.060	18.062	-0.002	6750075	0.04255	0.04297
9 2,4,5-TP(SILVEX)	18.462	18.462	0.000	16053437	0.08400	0.08204
10 2,4,5-T	19.222	19.222	0.000	14290131	0.08440	0.08120
11 DINOSEB	19.538	19.540	-0.002	6125095	0.05080	0.05058
12 2,4-DB	19.691	19.692	-0.001	6551740	0.33800	0.3061

Data File: \\QP1TPA02\J\chem\gcl.1\6260.b\A-A60173.D
Date: 26-SEP-2000 13:25
Client ID:
Sample Info: HHERB,6260.b
Column Phase: RTX-50

Instrument: gcl.i
Operator: 01797
Column diameter: 0.53



6721183

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60209.D
 Report Date: 28-Sep-2000 16:17

STL - Pittsburgh

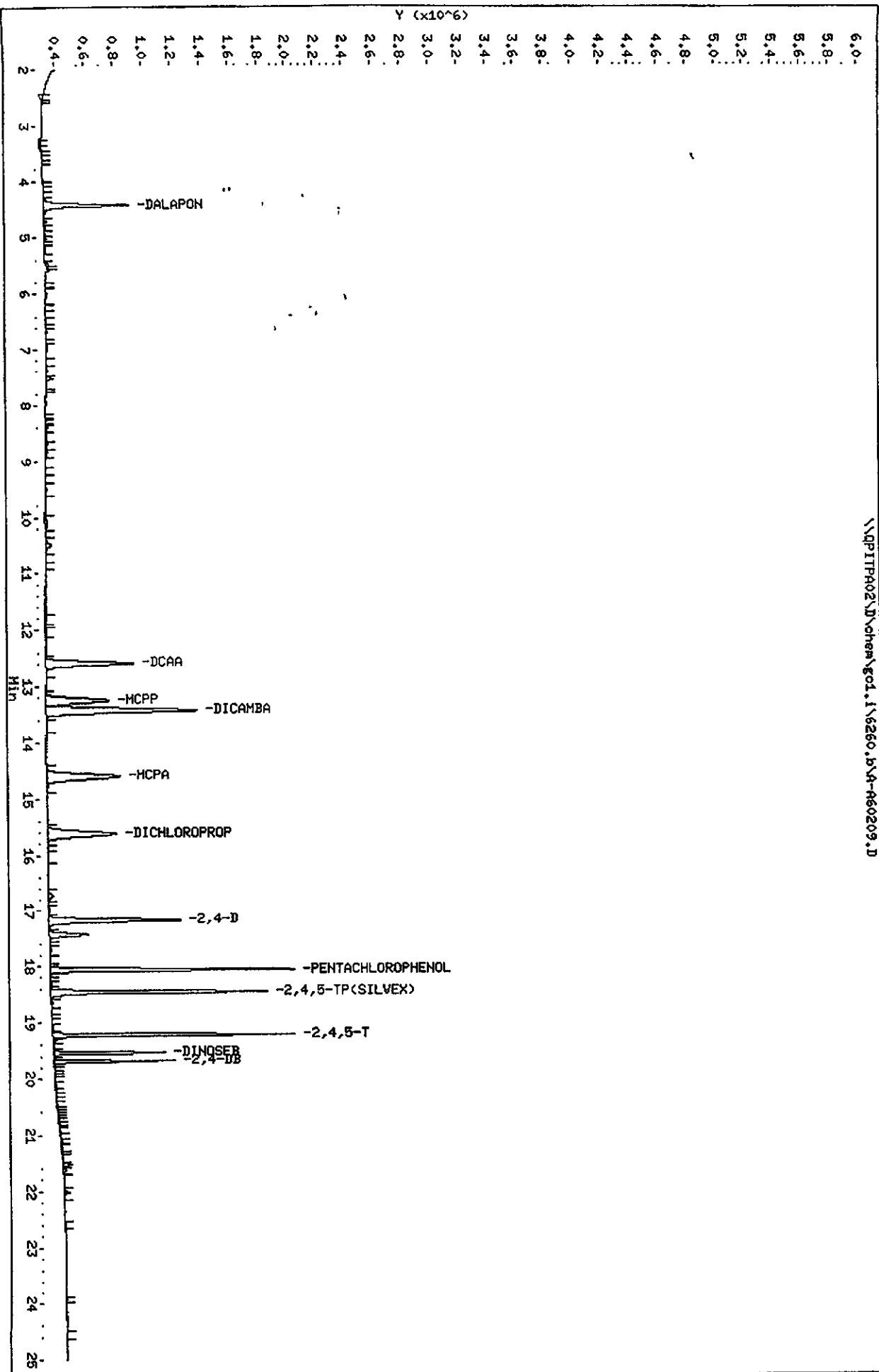
Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60209.D
 Lab Smp Id: MHERB
 Inj Date : 28-SEP-2000 15:48
 Operator : 01797
 Smp Info : MHERB,6260.b
 Misc Info : 190-94-3
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Meth Date : 28-Sep-2000 16:17 gc
 Cal Date : 26-SEP-2000 13:25
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 4.04
 Processing Host: PITPC085

Inst ID: gc1.i
 Quant Type: ESTD
 Cal File: A-A60173.D
 Continuing Calibration Sample
 Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
1 DALAPON	4.418	4.411	0.007	596229	0.04390	0.04523
2 DCAA	12.591	12.582	0.009	3078718	0.08510	0.08823
3 MCPP	13.246	13.239	0.007	433934	8.52000	8.553
4 DICAMBA	13.421	13.414	0.007	1052100	0.04250	0.04362
5 MCPA	14.598	14.588	0.010	507129	8.56000	8.376
6 DICHLOROPROP	15.615	15.604	0.011	484102	0.08480	0.08829
7 2,4-D	17.173	17.167	0.006	914132	0.08510	0.08811
8 PENTACHLOROPHENOL	18.060	18.057	0.003	1704052	0.01064	0.01085
9 2,4,5-TP(SILVEX)	18.462	18.458	0.004	4233843	0.02110	0.02164
10 2,4,5-T	19.220	19.219	0.001	3782886	0.02110	0.02150
11 DYNOSBB	19.538	19.536	0.002	1721144	0.01270	0.01421
12 2,4-DB	19.689	19.688	0.001	1815951	0.08450	0.08483

Data File: \\NPITPA02\chem\col.1\6260.b\A-060209.D
Date: 28-SEP-2000 15:48
Client ID:
Sample Info: MHERB,6260.b
Column phase: RTX-50

Instrument: col.1
Operator: 01797
Column diameter: 0.53



6721185

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60220.D
Report Date: 29-Sep-2000 08:37

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60220.D
Lab Smp Id: MHERB
Inj Date : 29-SEP-2000 00:30
Operator : 01797
Smp Info : MHERB,6260.b
Misc Info : 190-94-3
Comment :
Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
Meth Date : 29-Sep-2000 08:12 morganw
Cal Date : 26-SEP-2000 13:25
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.04
Processing Host: PITPC085

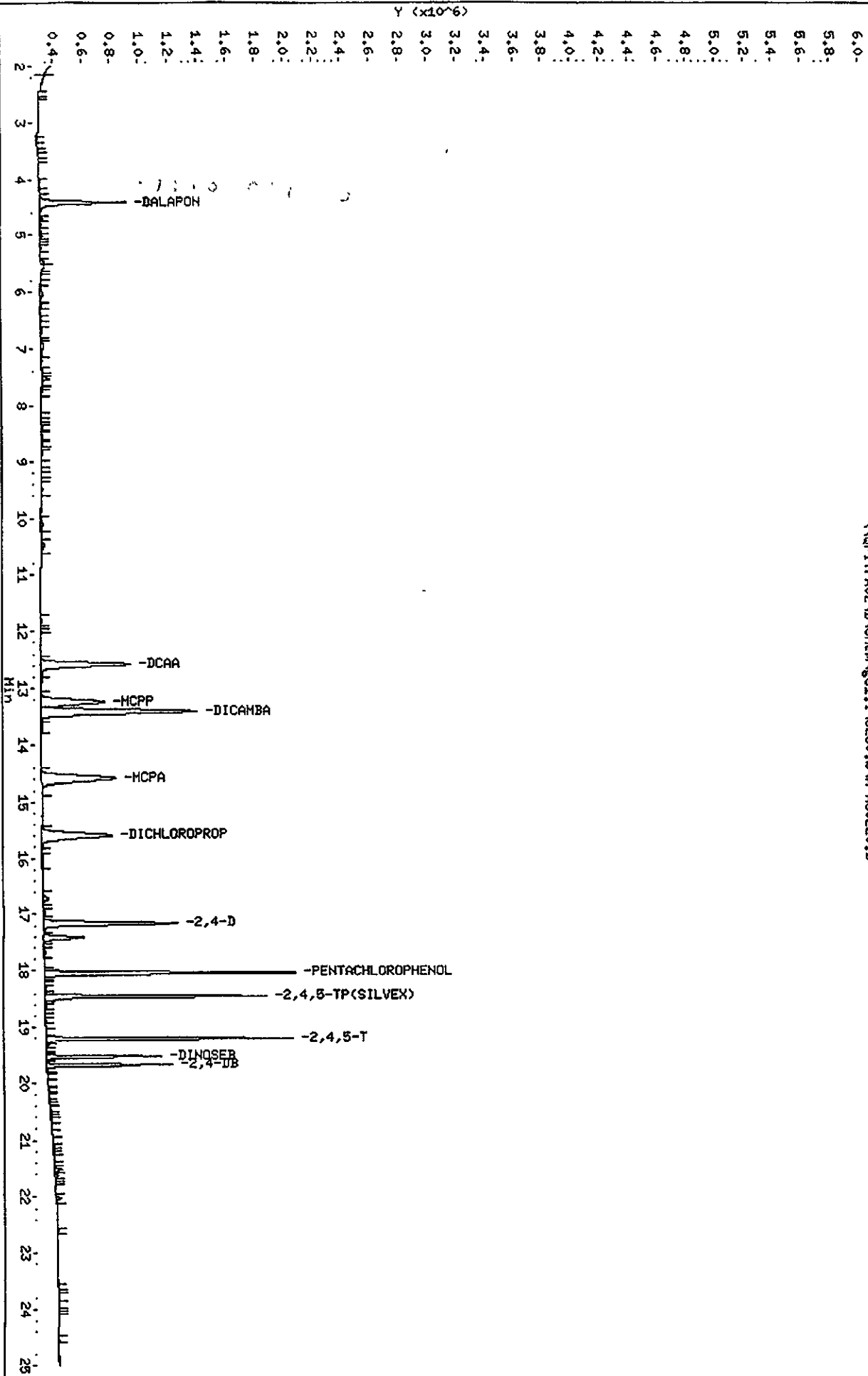
Inst ID: gc1.i
Quant Type: ESTD
Cal File: A-A60173.D
Continuing Calibration Sample
Compound Sublist: all.sub

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DALAPON	4.414	4.411	0.003	600748	0.04390	0.04557
\$ 2 DCAA	12.582	12.582	0.000	3141147	0.08510	0.09002
3 MCPP	13.234	13.239	-0.005	441741	8.52000	8.707
4 DICAMBA	13.411	13.414	-0.003	1075425	0.04250	0.04459
5 MCPA	14.585	14.588	-0.003	511320	8.56000	8.446
6 DICHLOROPROP	15.601	15.604	-0.003	488344	0.08480	0.08907
7 2,4-D	17.165	17.167	-0.002	930070	0.08510	0.08964
8 PENTACHLOROPHENOL	18.055	18.057	-0.002	1748594	0.01064	0.01113
9 2,4,5-TP(SILVEX)	18.458	18.458	0.000	4311392	0.02110	0.02203
10 2,4,5-T	19.217	19.219	-0.002	3846163	0.02110	0.02185
11 DINOSBB	19.535	19.536	-0.001	1757932	0.01270	0.01452
12 2,4-DB	19.687	19.688	-0.001	1867336	0.08450	0.08723

Data File: \\QPI1P002\\D\\chem\\gcl.i\\6260.b\\A-A60220.D
Date: 29-SEP-2000 00:30
Client ID:
Sample Info: NHERB_6260.b
Column phase: RTX-50

Instrument: gcl.i
Operator: 01797
Column diameter: 0.53

\\QPI1P002\\D\\chem\\gcl.i\\6260.b\\A-A60220.D



6721187

**HERBICIDE
QC DATA**

UXB INTERNATIONAL
METHOD BLANK COMPOUNDS

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

Matrix. (soil/water) SOLID

Lab Sample ID: C0I270000 583

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DL636101

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/29/00

Moisture %: NA

QC Batch: 0271583

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:			
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.040	U
93-72-1	2,4,5-TP (Silvex)	0.010	U

6721189

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60219.D
 Report Date: 29-Sep-2000 08:37

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60219.D
 Lab Smp Id: DL636101 Client Smp ID: BLK
 Inj Date : 29-SEP-2000 00:01
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DL636101,6260.b
 Misc Info : 220208BLK
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Meth Date : 29-Sep-2000 08:12 morganw Quant Type: ESTD
 Cal Date : 26-SEP-2000 13:25 Cal File: A-A60173.D
 Als bottle: 20 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC085

Concentration Formula: $\text{Amt} * \text{DF} * 20 * \text{Vt} / \text{Vo} / \text{Vi}$

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	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	12.581	12.582	-0.001	1271286	0.03643	0.07286(aR)
3 MCPP				Compound Not Detected.		
4 DICAMBA				Compound Not Detected.		
5 MCPA				Compound Not Detected.		
6 DICHLOROPROP				Compound Not Detected.		
7 2,4-D				Compound Not Detected.		
8 PENTACHLOROPHSNOL				Compound Not Detected.		
9 2,4,5-TP(SILVEX)				Compound Not Detected.		
10 2,4,5-T				Compound Not Detected.		
11 DINOSEB				Compound Not Detected.		
12 2,4-DB	19.746	19.688	0.058	27623	0.00129	0.002581(a)

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60219.D
Report Date: 29-Sep-2000 08:37

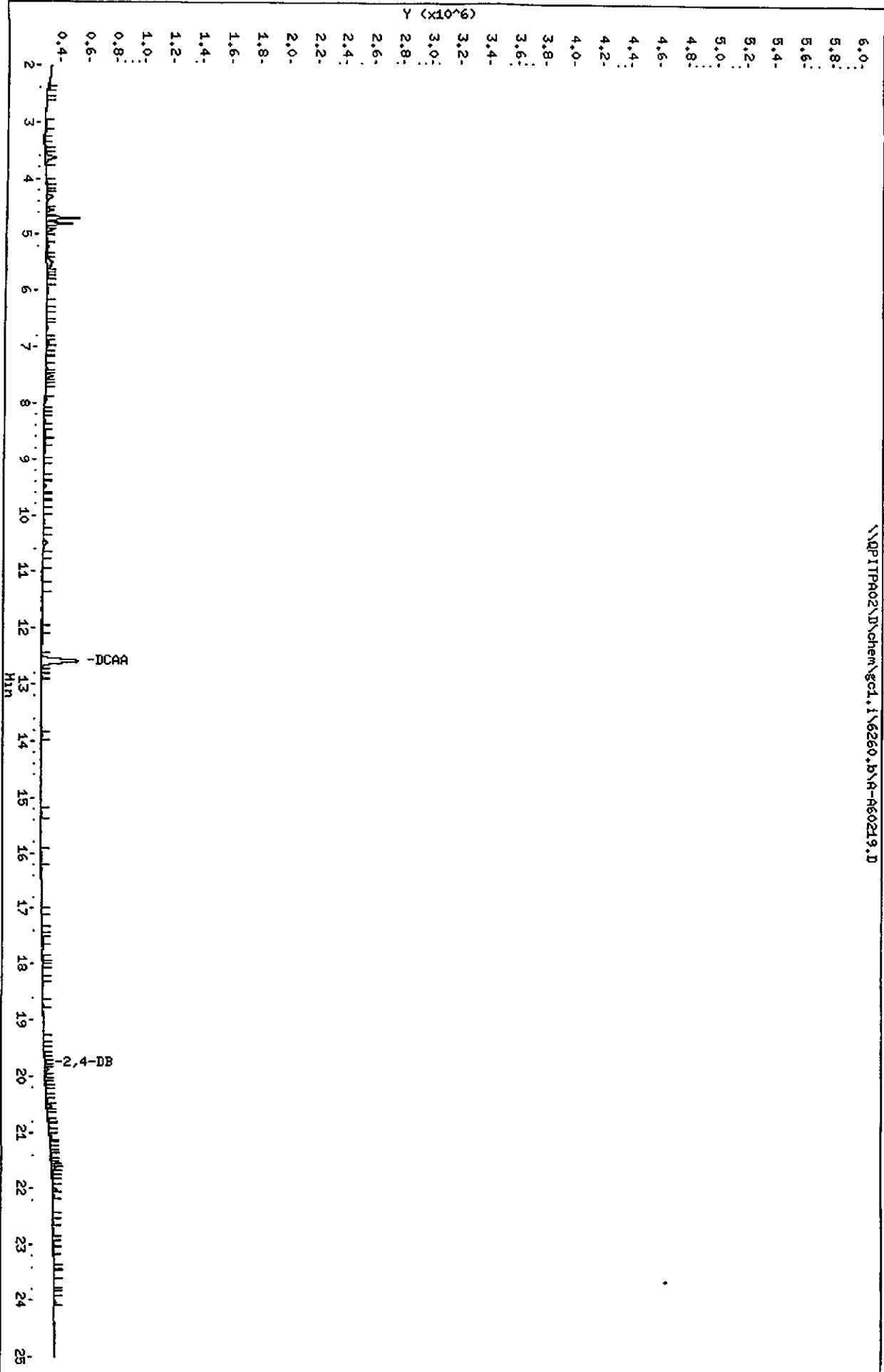
6721190

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\QPI1P002\J\chem\gcl.i\6260.b\A-A60219.D
Date: 29-SEP-2000 00:01
Client ID: BLK
Sample Info: DL636101,6260.b
Volume Injected (uL): 1.0
Column Phase: RTX-50

Instrument: gcl.i
Operator: 01797
Column diameter: 0.53



UXB INTERNATIONAL
CHECK SAMPLE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I270000 583

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DL636102

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: NA

QC Batch: 0271583

Client Sample Id: CHECK SAMPLE

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.123	
93-72-1	2,4,5-TP (Silvex)	0.0301	

6721193

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60218.D
 Report Date: 29-Sep-2000 08:37

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60218.D
 Lab Smp Id: DL636102 Client Smp ID: LCS
 Inj Date : 28-SEP-2000 23:33
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DL636102,6260.b
 Misc Info : 220208LCS
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Meth Date : 29-Sep-2000 08:12 morganw Quant Type: ESTD
 Cal Date : 26-SEP-2000 13:25 Cal File: A-A60173.D
 Als bottle: 19 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC085

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	4.415	4.411	0.004	384949	0.02920	0.05840 (aR)
\$ 2 DCAA	12.585	12.582	0.003	1515707	0.04344	0.08687 (aR)
3 MCPP	13.235	13.239	-0.004	362237	7.14010	14.28
4 DICAMBA	13.415	13.414	0.001	772620	0.03203	0.06406 (a)
5 MCPA	14.590	14.588	0.002	423607	6.99687	13.99
6 DICHLOROPROP	15.605	15.604	0.001	356425	0.06501	0.1300 (a)
7 2,4-D	17.167	17.167	0.000	637565	0.06145	0.1229 (aR)
8 PENTACHLOROPHENOL	18.056	18.057	-0.001	1230638	0.00783	0.01567 (a)
9 2,4,5-TP(SILVEX)	18.458	18.458	0.000	2943211	0.01504	0.03008 (aR)
10 2,4,5-T	19.218	19.219	-0.001	2662623	0.01513	0.03026 (aR)
11 DINOSEB	19.534	19.536	-0.002	660695	0.00546	0.01091 (a)
12 2,4-DB	19.688	19.688	0.000	1275397	0.05958	0.1192 (a)

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60218.D
Report Date: 29-Sep-2000 08:37

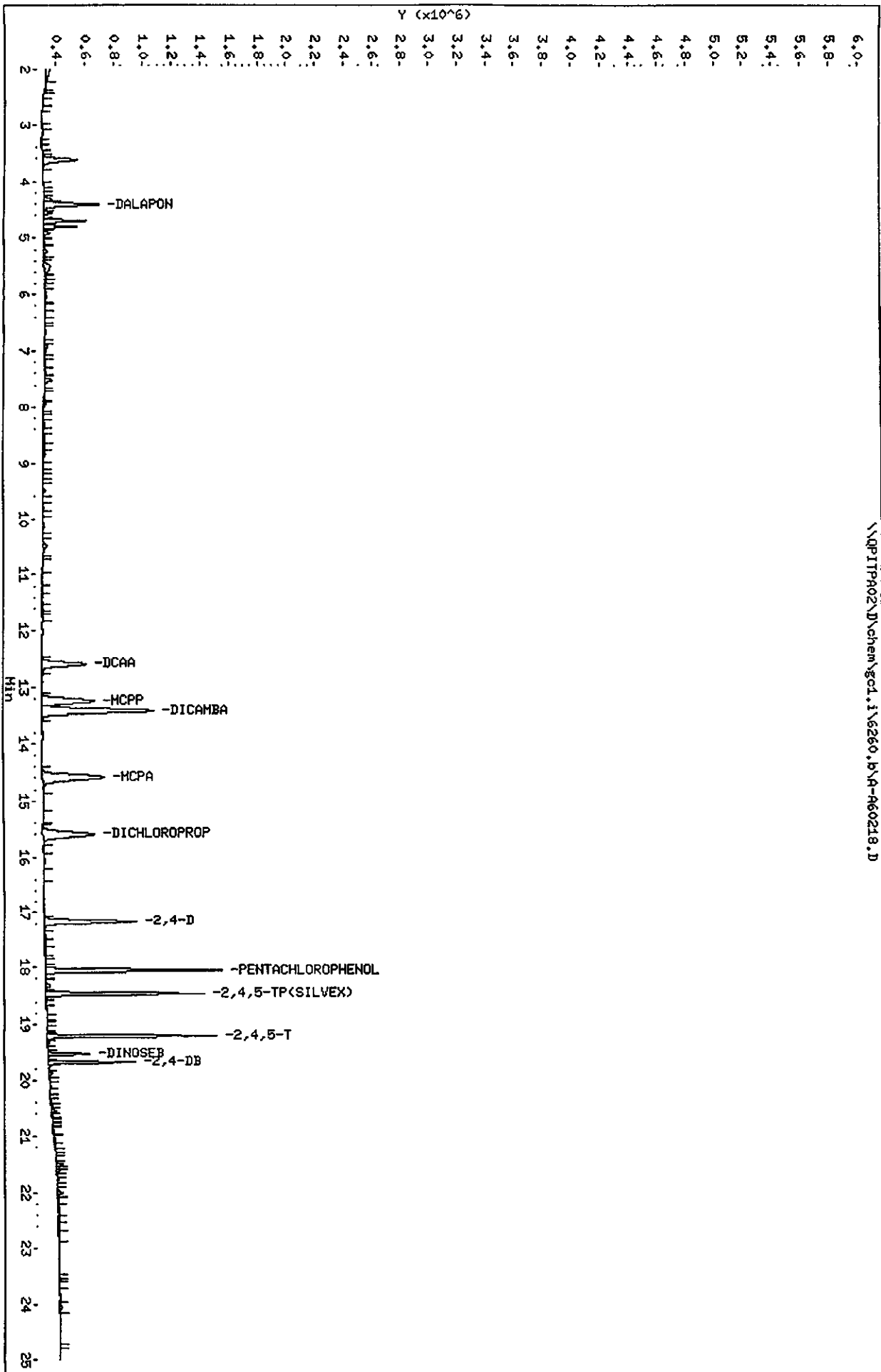
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

6721195

Data File: \\QPIPPA02\\D\\chem\\gcl.1\\6260.b\\A-A60218.D
Date: 28-SEP-2000 23:33
Client ID: LCS
Sample Info: DL636102,6260.b
Volume Injected (uL): 1.0
Column Phase: RTX-50

Instrument: gcl.1
Operator: 01797
Column diameter: 0.53



UXB INTERNATIONAL
MATRIX SPIKE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK310N

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: 27

QC Batch: 0271583

Client Sample Id: DF/24-A/0265/SDC/002

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.116	
93-72-1	2,4,5-TP (Silvex)	0.0295	

6721197

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60216.D
 Report Date: 29-Sep-2000 08:36

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60216.D
 Lab Smp Id: DKVK310N Client Smp ID: DF/24-A/0265/SDC/MS
 Inj Date : 28-SEP-2000 22:35
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DKVK310N, 6260.b
 Misc Info : 2202208002MS
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Meth Date : 29-Sep-2000 08:12 morganw Quant Type: ESTD
 Cal Date : 26-SEP-2000 13:25 Cal File: A-A60173.D
 Als bottle: 17 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC085

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	4.414	4.411	0.003	391941	0.02973	0.05946 (aR)
\$ 2 DCAA	12.584	12.582	0.002	1430028	0.04098	0.08196 (aR)
3 MCPP	13.234	13.239	-0.005	356421	7.02546	14.05
4 DICAMBA	13.415	13.414	0.001	776731	0.03220	0.06441 (a)
5 MCPA	14.591	14.588	0.003	409730	6.76766	13.54
6 DICHLOROPROP	15.604	15.604	0.000	347175	0.06332	0.1266 (a)
7 2,4-D	17.167	17.167	0.000	601110	0.05794	0.1159 (aR)
8 PENTACHLOROPHENOL	18.055	18.057	-0.002	886796	0.00565	0.01129 (a)
9 2,4,5-TP (SILVEX)	18.458	18.458	0.000	2888743	0.01476	0.02952 (aR)
10 2,4,5-T	19.219	19.219	0.000	2569951	0.01460	0.02921 (aR)
11 DINOSBB	19.535	19.536	-0.001	145945	0.00121	0.002410 (a)
12 2,4-DB	19.687	19.688	-0.001	1009852	0.04718	0.09435 (a)

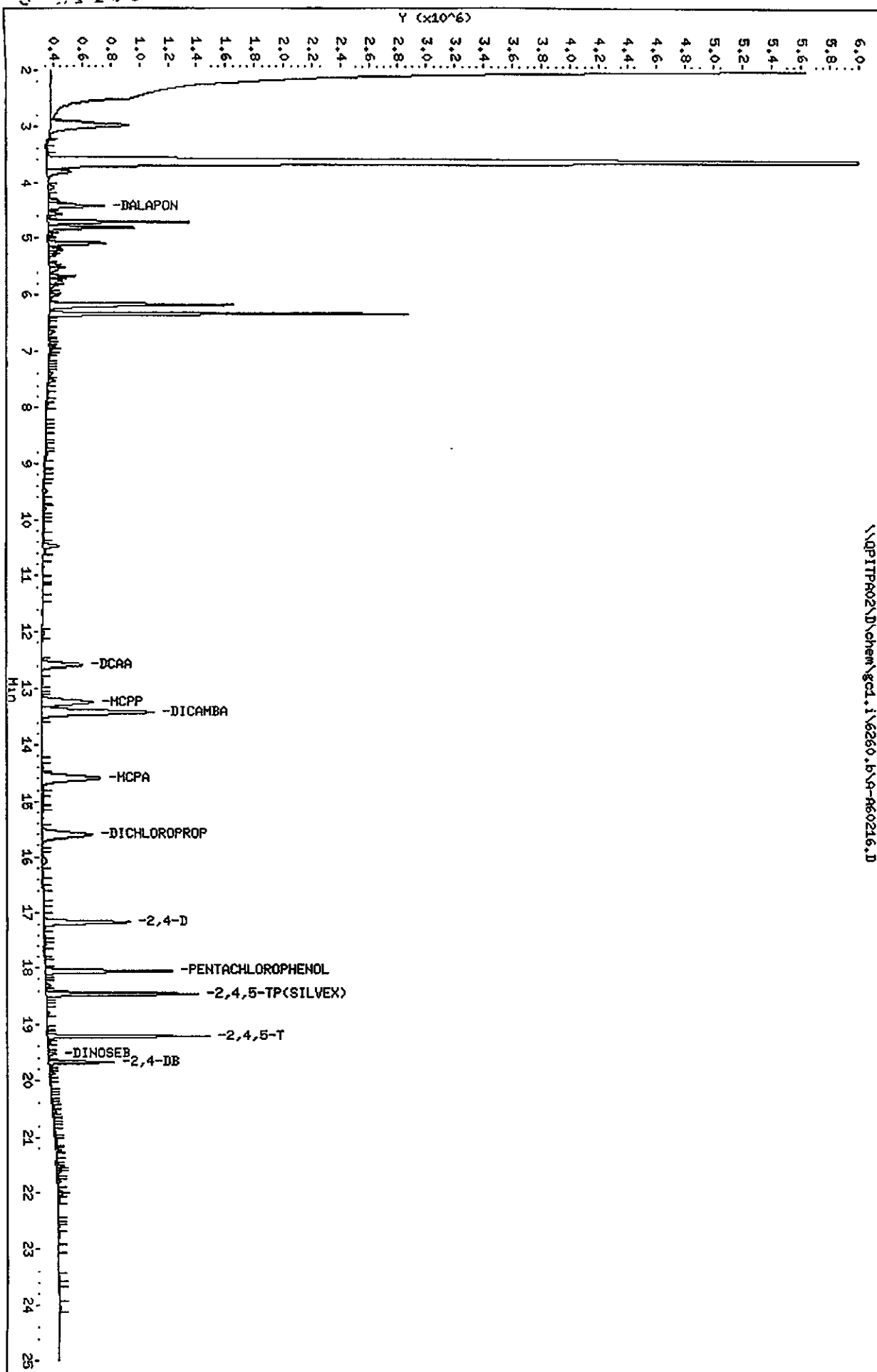
Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60216.D
Report Date: 29-Sep-2000 08:36

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: \\QPI1P002\chem\gc1.i\6260.b\A-A60216.D
 Date: 28-SEP-2000 22:35
 Client ID: DF/24-A/0265/SDC/HIS
 Sample Info: DKW310N,6260.b
 Volume Injected (uL): 1.0
 Column phase: RTX-50

Instrument: gc1.i
 Operator: 01797
 Column diameter: 0.53



UXB INTERNATIONAL
MATRIX SPIKE DUPLICATE COMPOUNDS

Lab Name: Severn Trent Laboratories, Inc.

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID: C0I220208 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 100 / mL

Date Received: 09/22/00

Work Order: DKVK310P

Date Extracted: 09/27/00

Dilution factor: 1

Date Analyzed: 09/28/00

Moisture %: 27

QC Batch: 0271583

Client Sample Id: DF/24-A/0265/SDC/002

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/kg) mg/L	Q
94-75-7	2,4-D	0.120	
93-72-1	2,4,5-TP (Silvex)	0.0297	

6721201

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60217.D
 Report Date: 29-Sep-2000 08:36

STL - Pittsburgh

Data file : \\QPITPA02\D\chem\gc1.i\6260.b\A-A60217.D
 Lab Smp Id: DKVK310P Client Smp ID: DF/24-A/0265/SDCMSD
 Inj Date : 28-SEP-2000 23:04
 Operator : 01797 Inst ID: gc1.i
 Smp Info : DKVK310P, 6260.b
 Misc Info : 220208002MSD
 Comment :
 Method : \\QPITPA02\D\chem\gc1.i\6260.b\LONGH.m
 Meth Date : 29-Sep-2000 08:12 morganw Quant Type: ESTD
 Cal Date : 26-SEP-2000 13:25 Cal File: A-A60173.D
 Als bottle: 18 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: all.sub
 Target Version: 4.04
 Processing Host: PITPC085

Concentration Formula: Amt * DF * 20*Vt/Vo/Vi

Name	Value	Description
DF	1.000	Dilution Factor
Vt	10.000	Volume of final extract (uL)
Vo	100.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/L)
1 DALAPON	4.413	4.411	0.002	341315	0.02589	0.05178 (aR)
\$ 2 DCAA	12.582	12.582	0.000	1307302	0.03746	0.07493 (aR)
3 MCPP	13.234	13.239	-0.005	357407	7.04490	14.09
4 DICAMBA	13.413	13.414	-0.001	776554	0.03220	0.06439 (a)
5 MCPA	14.589	14.588	0.001	417093	6.88928	13.78
6 DICHLOROPROP	15.605	15.604	0.001	349200	0.06369	0.1274 (a)
7 2,4-D	17.164	17.167	-0.003	622437	0.05999	0.1200 (aR)
8 PENTACHLOROPHENOL	18.055	18.057	-0.002	595939	0.00379	0.007588 (a)
9 2,4,5-TP(SILVEX)	18.456	18.458	-0.002	2908160	0.01486	0.02972 (aR)
10 2,4,5-T	19.217	19.219	-0.002	2635329	0.01497	0.02995 (aR)
11 DINOSEB	19.532	19.536	-0.004	109256	<0.0	0.001804 (a)
12 2,4-DB	19.686	19.688	-0.002	831868	0.03886	0.07772 (a)

Data File: \\QPITPA02\D\chem\gc1.i\6260.b\A-A60217.D
Report Date: 29-Sep-2000 08:36

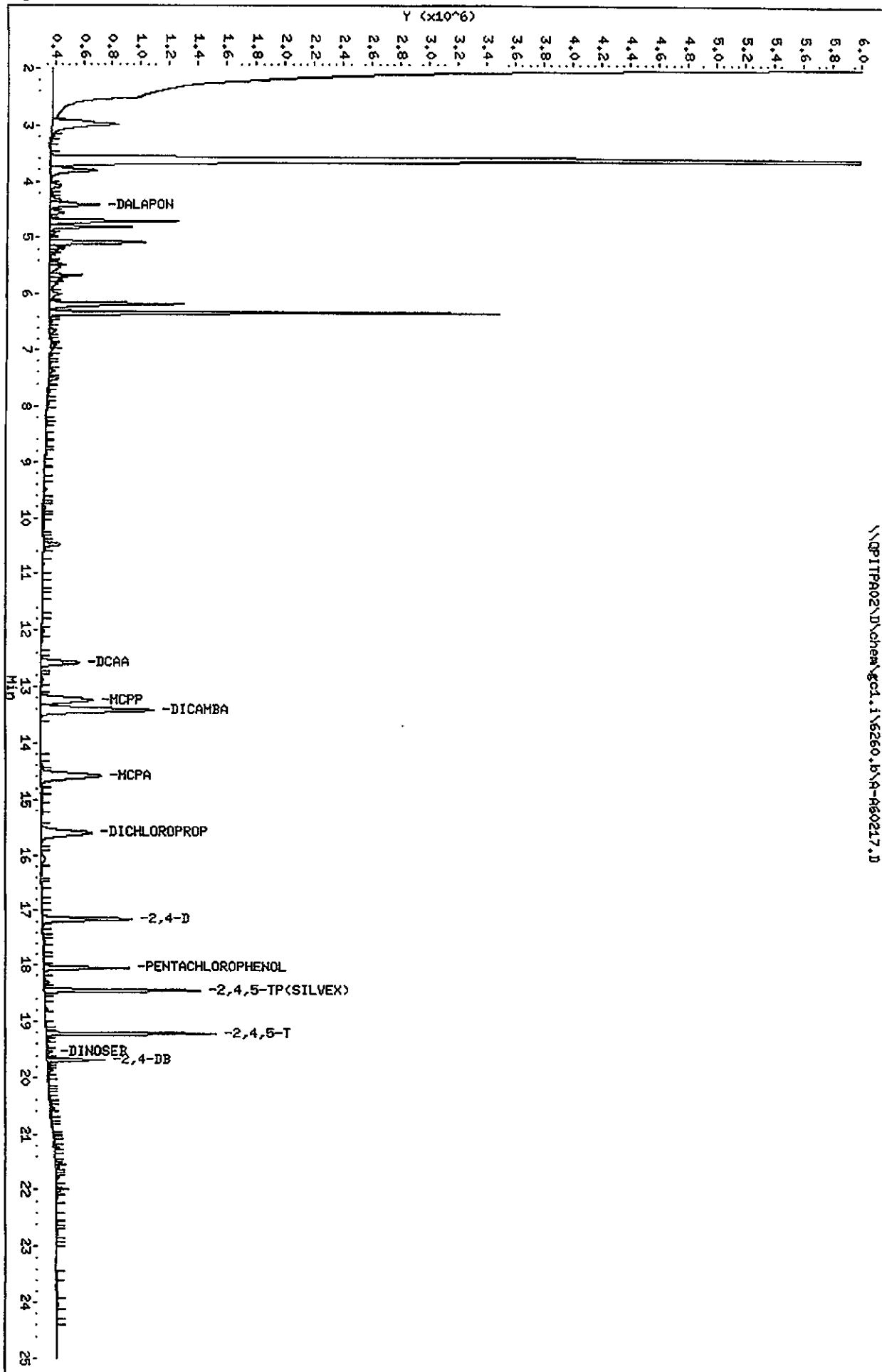
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

6721203

Data File: \\QIPITPA02\J\chem\gcl.1\6260.b\A-A60217.D
Date: 28-SEP-2000 23:04
Client ID: DF/24-A/0265/SDCHSD
Sample Info: DKVK31OP,6260.b
Volume Injected (uL): 1.0
Column Phase: RTX-50

Instrument: gcl.1
Operator: 01797
Column diameter: 0.53



**HERBICIDE
MISCELLANEOUS**

CO CDA 4181	CD # 6320101W	Serial Number	Log Book Number
BA		094	96-MT-526
CO James L Murphy	Date	Probe	Balance
Lot Number	9-26-00	Acumet Aes	
Project Number	9-29-00	Solution Number 1 - Log Book Number	Solution Number 2 - Log Book Number
	Q1930167	004051607	094817
	Q1030308; Q1220315	00449-12	

pH Determination				TCLP Extraction					
Sample ID	Wgt/Vol	Init. pH	Final pH	Extract Fluid #1, or #2	Conc. HNO ₃ to Acidity (for Metals)	Sample ID	Wgt (g) Wet/Dry	Fluid Vol.	Final pH After Tumbling
DK 1JW	5.00g / 46.5ml	10.07	1.66	Soln #1	1 ml	1. PB TCLP	---	2000ml	4.91
DKVK3	/	4.67	1.71	/	1 ml	2. ↓	---	/	4.92
DKVK4	/	8.91	1.68	/	↓	3. DKXPW	100.0g	/	5.32
DKXPW	/	10.37	1.74	/	↓	4. ↓	/	/	5.31
DKWMT	/	6.48	1.99	/	4 ml	5. DKUJW	/	/	5.80
DKWMX	/	6.12	1.76	/	↓	6. DKVK3	/	/	5.98
DKWNO	↓	6.37	1.66	↓	↓	7. DKVK4	↓	↓	5.14
	/	/	/	/	1 ml	8. DKWMT	10.0g	200ml	5.17
	/	/	/	/	↓	9. DKWMX	↓	↓	5.04
	↓	9.25-00	/	/	/	10. DKWNO	↓	↓	6.10
	/	/	/	/	/	11. ↓	/	/	/
	/	/	/	/	/	12. ↓	↓	↓	/
	/	/	/	/	/	13. ↓	↓	↓	/

[illegible]

= Sample determined to have free-liquid, % solid determination was performed.

5 = Extraction Fluid No. 1 5.7 mL Glacial Acetic Acid dil 500 mL + 64.3 mL of 1N Na OH dil to 1L (pH 4.93 + 0.05)

5 = Extraction Fluid No. 2 5 7 mL Glacial Acetic Acid dil to 1L (pH 2.88 + 0.05)

4059

$$\text{Temp}^{\circ} = 32^{\circ}\text{C} \quad \rho_{\text{H}_2\text{O}} = 4.93$$

B#0271583

Separatory Funnel Extraction Worksheet

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



TCLP

HEXANE T03268

Date Extraction Began	Lot Number	Date Completed	Sample ID	Parameters	Client ID	Method	Solvent	Surrogate Number	Surrogate Volume (mL)	Final Volume (mL)	Sample Volume (mL)	pH	Solvent Mfg.	Matrix Spike No.	Matrix Spike Volume (mL)	Clean up Method
9-27-00		9-28-00			NEED (8151A)	3510	MP	190-99-9	1.0	10.0	100	5.12	190-101-5	NA	NA	NA
1. 10I 220 208			002MS		NA											
2. 10I 220 208			002MS		NA											
3. 10I 220 208			002MS		NA											
4. 10I 220 208			002MS		NA											
5. 10I 220 208			002MS		NA											
6. 10I 220 208			002MS		NA											
7. 10I 220 208			002MS		NA											
8. 10I 220 208			002MS		NA											
9.																
10.																
11.																
12.																
13.																
14.																
15.																
16.																
17.																
18.																
19.																
20.																
21.																
22.																
23.																
24.																
Analyst																
Extract(s)																
(Record line number from above)																
APR A. DORR																
ALL ABOVE																
ALL ABOVE																
Sodium Sulfate Mfg.																
Lot Number																
Reviewed By																
Date																

T29596

6721206

6721207

Sequence Table (Front Injector):

Vial Information Part:

Line Vial Vial Information *created: 9-26-00 aum* **A**

Line	Vial	Vial Information
1	3	8151 HERB ANALYSIS
2	4	,all.sub,,1,1,190-94-1 169
3	5	,all.sub,,1,2,190-94-2 170
4	6	,all.sub,,1,3,190-94-3 171
5	7	,all.sub,,1,4,190-94-4 172
6	8	,all.sub,,1,5,190-94-5 173
7	9	,all.sub,,,COI23017001 174
8	10	,all.sub,,,COI23017002 175
~~9~~	~~11~~	~~,all.sub,,,COI23017003 176~~
10	12	,all.sub,,,COI230169 177
11	13	230170LCS 178
12	14	230170BLK 179
13	15	230170003 5XDL 180
14	16	230169002 181
15	17	230167002 182
16	18	230170003MS 5XDL 183
17	19	230170003MSD 5XDL 184
18	20	190-94-3 185

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	3	HEXANE 6260 <i>JP 9-26-00</i>	HERB	1	Sample		
2	4	LHERB, 5240.b	HERB	1	Sample		
3	5	MLHERB, 5240.b	HERB	1	Sample		
4	6	MHERB, 6260.b	HERB	1	Sample		
5	7	MHHERB, 6260.b	HERB	1	Sample		
6	8	HHERB, 6260.b	HERB	1	Sample		
7	9	DKXRE102, 6260.b	HERB	1	Sample		
8	10	DKXRF102, 6260.b	HERB	1	Sample		
9	11	DKXRG102, 6260.b	HERB	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
10	12	DKXR7102,6260.b	HERB	1	Sample		
11	13	DL05R102,6260.b	HERB	1	Sample		
12	14	DL05R101,6260.b	HERB	1	Sample		
13	15	DKXRG102,6260.b	HERB	1	Sample		
14	16	DKXRC102,6260.b	HERB	1	Sample		
15	17	DKXPW10C,6260.b	HERB	1	Sample		
16	18	DKXRG104,6260.b	HERB	1	Sample		
17	19	DKXRG105,6260.b	HERB	1	Sample		
18	20	MHERB,6260.b	HERB	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	4	,all.sub,,1,1,190-94-1
2	5	,all.sub,,1,2,190-94-2
3	6	,all.sub,,1,3,190-94-3
4	7	,all.sub,,1,4,190-94-4
5	8	,all.sub,,1,5,190-94-5
6	9	,all.sub,,,,C0I230170
7	10	,all.sub,,,,C0I230170
8	11	,all.sub,,,,C0I230170
9	12	,all.sub,,,,C0I230169
10	13	230170LCS
11	14	230170BLK
12	15	230170003 5XDL
13	16	230169002
14	17	230167002
15	18	230170003MS 5XDL
16	19	230170003MSD 5XDL
17	20	190-94-3

Method and Injection Info Part:

Sequence Table (Front Injector):

Vial Information Part:

A

Line	Vial	Vial Information	
1	1	8151 HERB ANALYSIS	
2	2	,all.sub,,2,3,190-94-3	201
3	3	,all.sub,,,C0I210229001	202
4	4	,all.sub,,,A0I200216001	203
5	5	,all.sub,,,A0I200216002	204
6	6	,all.sub,,,A0I200216003	205
7	7	,all.sub,,,A0I200216004	206
8	8	,all.sub,,,A0I200216005	207
9	9	,all.sub,,,A0I200216006	208
10	10	,all.sub,,2,3,190-94-3	209
11	11	,all.sub,,3,,A0I200216BLK	210
12	12	,all.sub,,3,,A0I200216LCS	211
13	13	,all.sub,,3,,A0I200216LCSD	212
14	14	,all.sub,,,C0I220208001	213
15	15	,all.sub,,,C0I220208002	214
16	16	,all.sub,,,C0I220208003	215
17	17	,all.sub,,3,,C0I220208002MS	216
18	18	,all.sub,,3,,C0I220208002MSD	217
19	19	,all.sub,,3,,C0I220208LCS	218
20	20	,all.sub,,3,,C0I220208BLK	219
21	21	,all.sub,,2,3,190-94-3	220

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	HEXANE	HERB	1	Sample		
2	2	MHERB,6260.b	HERB	1	Sample		
3	3	DKRKG103,6260.b	HERB	1	Sample		

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
4	4	DKP1D10K,6260.b	HERB	1	Sample		
5	5	DKP1Q10K,6260.b	HERB	1	Sample		
6	6	DKP1V10K,6260.b	HERB	1	Sample		
7	7	DKP2310K,6260.b	HERB	1	Sample		
8	8	DKP2610K,6260.b	HERB	1	Sample		
9	9	DKP2810K,6260.b	HERB	1	Sample		
10	10	MHERB,6260.b	HERB	1	Sample		
11	11	DL1L5101,6260.b	HERB	1	Sample		
12	12	DL1L5102,6260.b	HERB	1	Sample		
13	13	DL1L5103,6260.b	HERB	1	Sample		
14	14	DKVJW105,6260.b	HERB	1	Sample		
15	15	DKVK3105,6260.b	HERB	1	Sample		
16	16	DKVK4105,6260.b	HERB	1	Sample		
17	17	DKVK310N,6260.b	HERB	1	Sample		
18	18	DKVK310P,6260.b	HERB	1	Sample		
19	19	DL636102,6260.b	HERB	1	Sample		
20	20	DL636101,6260.b	HERB	1	Sample		
21	21	MHERB,6260.b	HERB	1	Sample		

Sequence Table (Back Injector):

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	95	8151 HERB ANALYSIS
2	96	,all.sub,,2,3,190-94-3
3	97	,all.sub,,,A0I200216002
4	98	,all.sub,,,A0I200216004
5	99	,all.sub,,3,,A0I200216BLK
6	100	,all.sub,,2,3,190-94-3

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
====	====	=====	=====	===	=====	=====	=====
1	95	HEXANE	HERBA	1	Sample		
2	96	MHERB,6260A.b	HERBA	1	Sample		
3	97	DKP1Q10K,6260A.b	HERBA	1	Sample		
4	98	DKP2310K,6260A.b	HERBA	1	Sample		
5	99	DL1L5101,6260A.b	HERBA	1	Sample		
6	100	MHERB,6260A.b	HERBA	1	Sample		

6721211

PSR024 9/27/00 13:38:10 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

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>
13D CLP1	DKVJW-1-05	___	267517	399411	A-64-QS	C01220208	001		SOLID	0	3
13D CLP1	DKVK3-1-05	___	267518	399411	A-64-QS	C01220208	002		SOLID	0	3
13D CLP1	DKVK4-1-05	___	267519	399411	A-64-QS	C01220208	003		SOLID	0	3

RELINQUISHED BY

P. Yushinski
P. Yushinski

RECEIVED BY

P. Yushinski
P. Yushinski

DATE/TIME

9-27-00 1545
9-27-00 2310

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

METALS DATA

STL-Pittsburgh**Cover Page - Inorganic Analysis Data Package**

<u>Client ID</u>	<u>Lab Sample ID:</u>
<u>DF/24-A/0265/SDC/001</u>	<u>DKVJW</u>
<u>DF/24-A/0265/SDC/002</u>	<u>DKVK3</u>
<u>DF/24-A/0265/SDC/003</u>	<u>DKVK4</u>

Comments: UXB DUNN FIELD
C0I220208
6010B

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____
Date: _____ Title: _____

REVIEWED BY: <u>NTW</u>
DATE: <u>9-27-00</u>

**METALS
RESULTS**

6721215

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVJW Client ID: DF/24-A/0265/SDC/001
Matrix: Soil Units: mg/kg Prep Date: 9/23/00 Prep Batch: 0267137
Weight: 1.00 Volume: 100 Percent Moisture: 11.00

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	1.1	11.0		1	ICPST	9/24/00	19:49

Comments: C0I220208001

Version 4.10.2

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

Form 1 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK3 **Client ID:** DF/24-A/0265/SDC/002
Matrix: Soil **Units:** mg/kg **Prep Date:** 9/23/00 **Prep Batch:** 0267137
Weight: 1.00 **Volume:** 100 **Percent Moisture:** 26.51

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.35	1.4	11.4		1	ICPST	9/24/00	19:53

Comments: C01220208002

Version 4.10.2

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

Form 1 Equivalent

6721217

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK4 Client ID: DF/24-A/0265/SDC/003
Matrix: Soil Units: mg/kg Prep Date: 9/23/00 Prep Batch: 0267137
Weight: 1.00 Volume: 100 Percent Moisture: 15.03

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	1.2	16.3		1	ICPST	9/24/00	19:57

Comments: COI220208003

Version 4.10.2

U Result is less than the MDL

Form 1 Equivalent

B Result is between MDL and RL

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPSTUnits: ug/LChart Number: T00924B.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-073-4

Element	WL/ Mass	True Conc	ICV3-1 9/24/00 3:50 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	250.0	261.21	104.5								

6721219

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T00924B.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-062-6

Element	WL/ Mass	True Conc	CCV3-1 9/24/00 4:42 PM		CCV3-2 9/24/00 5:03 PM		CCV3-3 9/24/00 5:53 PM		CCV3-4 9/24/00 6:43 PM		CCV3-5 9/24/00 7:32 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	534.82	107.0	521.12	104.2	521.79	104.4	533.65	106.7	535.29	107.1

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPSTUnits: ug/LChart Number: T00924B.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-062-6

			CCV3-6 9/24/00 8:02 PM							
	WL/ Mass	True Conc	% Found	% Rec	% Found	% Rec	% Found	% Rec	% Found	% Rec
Element	Mass	Conc	Found	Rec	Found	Rec	Found	Rec	Found	Rec
Arsenic	189.042	500.0	525.10	105.0						

6721221

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00924B.ARC

Standard Source: _____

Standard ID: _____

			ICBI 9/24/00 3:54 PM					
Element	WL/ Mass	Report Limit	Found	Q	Found	Q	Found	Q
Arsenic	189.042	10	2.6	U				

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00924B.ARC

Standard Source: _____

Standard ID: _____

			CCB1 9/24/00 4:46 PM	CCB2 9/24/00 5:07 PM	CCB3 9/24/00 5:57 PM	CCB4 9/24/00 6:47 PM	CCB5 9/24/00 7:37 PM
Element	WL/ Mass	Report Limit	Found Q	Found Q	Found Q	Found Q	Found Q
Arsenic	189.042	10	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U

6721223

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPSTUnits: ug/LChart Number: T00924B.ARC

Standard Source: _____

Standard ID: _____

			CCB6 9/24/00 8:06 PM				
Element	WL/ Mass	Report Limit	Found Q	Found Q	Found Q	Found Q	Found Q
Arsenic	189.042	10	2.6 U				

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DKXP3BMatrix: Soil Units: mg/kg Prep Date: 9/23/00 Prep Batch: 0267137Weight: 1.00 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.26	1.0	0.26	U	1	ICPST	9/24/00	18.01

Comments: _____

6721225

STL-Pittsburgh

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPST

Units: ug/L

Chart Number: T00924B.ARC

Acceptable Range: 0% - 0%

Standard Source: Inorganic Ventures

Standard ID: 0057-078-10

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 9/24/00 3:58 PM				
				Found	Found	Found	Found	Found
Arsenic	189.042	10		2				

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPSTUnits: ug/LChart Number: T00924B.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0057-059-3

Element	WL/ Mass	True Conc	ICSAB 9/24/00 4:02 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	1000	1120.9	112.1								

6721227

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DKXP3CMatrix: Soil Units: mg/kg Prep Date: 9/23/00 Prep Batch: 0267137Weight: 1.00 Volume: 100 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	200	210	105.0		80-120	1	ICPST	9/24/00	18:05

Comments: _____

Version 4.10.2

STL Pittsburgh

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

5016

STL-Pittsburgh
Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPST**Units:** ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Arsenic	189.04	10	2.6	4/1/00

6721229

STL-Pittsburgh

Metals Data Reporting Form

Inter-Element Correction Factors

Instrument: ICPST

Date of IEC's: 9/18/00

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Pb(0.000521), Se(0.00001), Tl(-0.00002)
Aluminum	308.215	Pb(-0.000237), Se(0.000011)
Chromium	267.716	Sb(0.010224)
Chromium	267.716	As(-0.003169), Sb(0.019002)
Cobalt	228.616	Se(-0.000516)
Cobalt	228.616	Cd(-0.00009), Fe(0.094731), Ni(-0.00066), Pb(0.000132), Se(0.000351), Tl(0.00237)
Iron	271.441	Cd(0.000055), Pb(0.000078), Sb(0.000019), Se(-0.000043), Tl(-0.000045), V(-0.000349), Zn(0.000127)
Iron	271.441	Pb(0.000047), Sb(0.000021), Se(-0.000388)
Magnesium	279.078	Fe(-0.000259)
Manganese	257.61	Se(0.000579), Tl(-0.004878)
Molybdenum	202.03	Pb(-0.00087), Sb(-0.015371)
Molybdenum	202.03	Al(0.011136), As(-0.001419), Cr(-0.000312), Pb(-0.00056), Sb(-0.004991)
Nickel	231.604	Pb(0.000274), Sb(-0.001135), Zn(0.00526)
Nickel	231.604	Pb(0.000139)
Vanadium	292.402	Al(0.019591), Be(-0.008726), Cr(-0.000183), Fe(0.007812), Sb(-0.010405), Se(0.000216), Tl(0.001386)
Vanadium	292.402	Pb(-0.000353), Se(0.000099)

STL-Pittsburgh
Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPST

Units: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Arsenic	189.04	10000	9/18/00

6721231

STL-Pittsburgh
Metals Data Reporting Form

Preparation Log

Preparation Batch: 0267137 **Instrument:** ICP **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DKXP3B	9/23/00	1.00	100	NA
DKXP3C	9/23/00	1.00	100	NA
DKVJW	9/23/00	1.00	100	11.00
DKVK3	9/23/00	1.00	100	26.51
DKVK4	9/23/00	1.00	100	15.03

STL-Pittsburgh
Metals Data Reporting Form

6721232

Instrument Runlog

Instrument: ICPST

Chart Number: T00924B.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		9/24/00	15:22
STD1		9/24/00	15:38
STD6		9/24/00	15:42
STD7		9/24/00	15:46
ICV3-1		9/24/00	15:50
ICB1		9/24/00	15:54
ICSA		9/24/00	15:58
ICSAB		9/24/00	16:02
ZZZZZZ		9/24/00	16:09
ZZZZZZ		9/24/00	16:13
ZZZZZZ		9/24/00	16:17
ZZZZZZ		9/24/00	16:21
ZZZZZZ		9/24/00	16:26
ZZZZZZ		9/24/00	16:30
ZZZZZZ		9/24/00	16:34
ZZZZZZ		9/24/00	16:38
CCV3-1		9/24/00	16:42
CCB1		9/24/00	16:46
ZZZZZZ		9/24/00	16:51
ZZZZZZ		9/24/00	16:55
ZZZZZZ		9/24/00	16:59
CCV3-2		9/24/00	17:03
CCB2		9/24/00	17:07
ZZZZZZ		9/24/00	17:11
ZZZZZZ		9/24/00	17:15
ZZZZZZ		9/24/00	17:20
ZZZZZZ		9/24/00	17:24
ZZZZZZ		9/24/00	17:28
ZZZZZZ		9/24/00	17:32
ZZZZZZ		9/24/00	17:36
ZZZZZZ		9/24/00	17:40
ZZZZZZ		9/24/00	17:44
ZZZZZZ		9/24/00	17:49
CCV3-3		9/24/00	17:53
CCB3		9/24/00	17:57
DKXP3B		9/24/00	18:01
DKXP3C		9/24/00	18:05
ZZZZZZ		9/24/00	18:09
ZZZZZZ		9/24/00	18:14

6721233

STL-Pittsburgh

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPSTChart Number: T00924B.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		9/24/00	18:18
ZZZZZZ		9/24/00	18:22
ZZZZZZ		9/24/00	18:26
ZZZZZZ		9/24/00	18:30
ZZZZZZ		9/24/00	18:34
ZZZZZZ		9/24/00	18:38
CCV3-4		9/24/00	18:43
CCB4		9/24/00	18:47
ZZZZZZ		9/24/00	18:51
ZZZZZZ		9/24/00	18:55
ZZZZZZ		9/24/00	18:59
ZZZZZZ		9/24/00	19:03
ZZZZZZ		9/24/00	19:08
ZZZZZZ		9/24/00	19:12
ZZZZZZ		9/24/00	19:16
ZZZZZZ		9/24/00	19:20
ZZZZZZ		9/24/00	19:24
ZZZZZZ		9/24/00	19:28
CCV3-5		9/24/00	19:32
CCB5		9/24/00	19:37
ZZZZZZ		9/24/00	19:41
ZZZZZZ		9/24/00	19:45
DKVJW	DF/24-A/0265/SDC/001	9/24/00	19:49
DKVK3	DF/24-A/0265/SDC/002	9/24/00	19:53
DKVK4	DF/24-A/0265/SDC/003	9/24/00	19:57
CCV3-6		9/24/00	20:02
CCB6		9/24/00	20:06
ZZZZZZ		9/24/00	20:10
ZZZZZZ		9/24/00	20:14
ZZZZZZ		9/24/00	20:18
ZZZZZZ		9/24/00	20:22
ZZZZZZ		9/24/00	20:26
ZZZZZZ		9/24/00	20:31
ZZZZZZ		9/24/00	20:35
ZZZZZZ		9/24/00	20:39
ZZZZZZ		9/24/00	20:43
ZZZZZZ		9/24/00	20:47
ZZZZZZ		9/24/00	20:51
ZZZZZZ		9/24/00	20:56

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPSTChart Number: T00924B.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		9/24/00	21:00
ZZZZZZ		9/24/00	21:04
ZZZZZZ		9/24/00	21:08
ZZZZZZ		9/24/00	21:12
ZZZZZZ		9/24/00	21:16
ZZZZZZ		9/24/00	21:21
ZZZZZZ		9/24/00	21:25
ZZZZZZ		9/24/00	21:29
ZZZZZZ		9/24/00	21:33
ZZZZZZ		9/24/00	21:37
ZZZZZZ		9/24/00	21:41
ZZZZZZ		9/24/00	21:46
ZZZZZZ		9/24/00	21:50
ZZZZZZ		9/24/00	21:54
ZZZZZZ		9/24/00	21:58
ZZZZZZ		9/24/00	22:02
ZZZZZZ		9/24/00	22:06
ZZZZZZ		9/24/00	22:11
ZZZZZZ		9/24/00	22:15
ZZZZZZ		9/24/00	22:19

6721235

METALS
RAW DATA

COI20208

Analysis Report *COI20208* Averages

09/25/00 05:05:15 AM

6721236

page 3

Sample Name *Philly 9-25-00* AS

1	STD1	-.0003
2	STD6	3.55982
3	STD7	
4	ICV3-1 0057-073-4	.26121
5	ICB1	-.00143
6	ICSA 0057-078-10	.00212
7	ICSAB 0057-059-3	1.1209
8	DKQFPB	-.00072
9	DKQFPC	2.0431
10	DKPGW	.09221
11	DKPGWP5	.01849
12	DKPGWS	2.0806
13	DKPGWD	2.0966
14	DKPH0	.15922
15	DKPH5	.11459
16	CCV3-1 0057-062-6	.53482
17	CCB1	-.00050
18	DKPH6	.27348
19	DKPH7	.32953
20	DKPH8	.32131
21	CCV3-2	.52112
22	CCB2	.00148
23	DKTQ6B	.00000
24	DKTQ6C	2.1244
25	DKT2H	.22260
26	DKT2HP5	.04651
27	DKT2HS	2.1601
28	DKT2HD	2.0259
29	DKT2K	.11656
30	DKT2L	.14260
31	DKT2M	.03981
32	DKT2N	.07465
33	CCV3-3	.52179
34	CCB3	-.00153
35	DKXP3B	.00018
36	DKXP3C	2.1009
37	DKRG8	.00923
38	DKRG8P5	.00075
39	DKRG8S	2.0184
40	DKRG8D	2.0631
41	DKRGK	.02297
42	DKRGN	.03821
43	DKRGP	.03322
44	DKRGPP5	.00698
45	CCV3-4	.53365
46	CCB4	.00055
47	DKRGPS	2.1960
48	DKRGPD	2.0290
49	DKRH2	.04213
50	DKWFL	.21932
51	DKWFN	.11367
52	DKWMT	.05955
53	DKWMT/5	.01158

6721237

Analysis Report

Averages

09/25/00 05:05:15 AM

page 4

#	Sample Name	AS
54	DKWMT/10	.00449
55	DKWMX	.06759
56	DKWMX/5	.01250
57	CCV3-5	.53529
58	CCB5	.00046
59	DKWMX/10	.00571
60	DKWND	.00504
61	DKVJW	.09779
62	DKVK3	.08354
63	DKVK4	.13864
64	CCV3-6	.52510
65	CCB6	-.00239
66	DKKK7B	.00174
67	DKKK7C	2.0326
68	DK0T1	.01524
69	DK0T2	.00833
70	DK0T3	.00068
71	DK0T5	.02252
72	DK0T5P5	.00292
73	DK0T5S	2.1694
74	DK0T5D	2.1961
75	DK0T6	-.00011
76	CCV3-7	.52740
77	CCB7	-.00087
78	DK0T7	-.00056
79	DK0T8	.00594
80	DK0T9	-.00020
81	DK0TA	.00403
82	DK0T1F	.00475
83	DK0T2F	-.00008
84	DK0T3F	.00022
85	DK0T5F	.00752
86	DK0T5P5F	.00013
87	DK0T5SF	2.1607
88	CCV3-8	.53910
89	CCB8	.00089
90	DK0T5DF	2.1941
91	DK0T6F	.00098
92	DK0T7F	.00113
93	DK0T8F	.00044
94	DK0T9F	-.00075
95	DK0TAF	.00233
96	CCV3-9	.54345
97	CCB9	-.00111

R6 92500

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	T00924B	METTRA	09/24/00	15:38		X	IR
2	STD6	T00924B	METTRA	09/24/00	15:42		X	IR
3	STD7	T00924B	METTRA	09/24/00	15:46		X	IR
4	ICV3-1 0057-073-4	T00924B	METTRA	09/24/00	15:50	RJG	S	CONC
5	ICB1	T00924B	METTRA	09/24/00	15:54	RJG	S	CONC
6	ICSA 0057-078-10	T00924B	METTRA	09/24/00	15:58	RJG	Q	CONC
7	ICSAB 0057-059-3	T00924B	METTRA	09/24/00	16:02	RJG	Q	CONC
8	DKQFPB	T00924B	METTRA	09/24/00	16:09	RJG	S	CONC
9	DKQFPC	T00924B	METTRA	09/24/00	16:13	RJG	S	CONC
10	DKPGW	T00924B	METTRA	09/24/00	16:17	RJG	S	CONC
11	DKPGWP5	T00924B	METTRA	09/24/00	16:21	RJG	S	CONC
12	DKPGWS	T00924B	METTRA	09/24/00	16:26	RJG	S	CONC
13	DKPGWD	T00924B	METTRA	09/24/00	16:30	RJG	S	CONC
14	DKPH0	T00924B	METTRA	09/24/00	16:34	RJG	S	CONC
15	DKPH5	T00924B	METTRA	09/24/00	16:38	RJG	S	CONC
16	CCV3-1 0057-062-6	T00924B	METTRA	09/24/00	16:42	RJG	S	CONC
17	CCB1	T00924B	METTRA	09/24/00	16:46	RJG	S	CONC
18	DKPH6	T00924B	METTRA	09/24/00	16:51	RJG	S	CONC
19	DKPH7	T00924B	METTRA	09/24/00	16:55	RJG	S	CONC
20	DKPH8	T00924B	METTRA	09/24/00	16:59	RJG	S	CONC
21	CCV3-2	T00924B	METTRA	09/24/00	17:03	RJG	S	CONC
22	CCB2	T00924B	METTRA	09/24/00	17:07	RJG	S	CONC
23	DKTQ6B	T00924B	METTRA	09/24/00	17:11	RJG	S	CONC
24	DKTQ6C	T00924B	METTRA	09/24/00	17:15	RJG	S	CONC
25	DKT2H	T00924B	METTRA	09/24/00	17:20	RJG	S	CONC
26	DKT2HP5	T00924B	METTRA	09/24/00	17:24	RJG	S	CONC
27	DKT2HS	T00924B	METTRA	09/24/00	17:28	RJG	S	CONC
28	DKT2HD	T00924B	METTRA	09/24/00	17:32	RJG	S	CONC
29	DKT2K	T00924B	METTRA	09/24/00	17:36	RJG	S	CONC
30	DKT2L	T00924B	METTRA	09/24/00	17:40	RJG	S	CONC
31	DKT2M	T00924B	METTRA	09/24/00	17:44	RJG	S	CONC
32	DKT2N	T00924B	METTRA	09/24/00	17:49	RJG	S	CONC
33	CCV3-3	T00924B	METTRA	09/24/00	17:53	RJG	S	CONC
34	CCB3	T00924B	METTRA	09/24/00	17:57	RJG	S	CONC
35	DKXP3B	T00924B	METTRA	09/24/00	18:01	RJG	S	CONC
36	DKXP3C	T00924B	METTRA	09/24/00	18:05	RJG	S	CONC
37	DKRG8	T00924B	METTRA	09/24/00	18:09	RJG	S	CONC
38	DKRG8P5	T00924B	METTRA	09/24/00	18:14	RJG	S	CONC
39	DKRG8S	T00924B	METTRA	09/24/00	18:18	RJG	S	CONC
40	DKRG8D	T00924B	METTRA	09/24/00	18:22	RJG	S	CONC
41	DKRGK	T00924B	METTRA	09/24/00	18:26	RJG	S	CONC
42	DKRGN	T00924B	METTRA	09/24/00	18:30	RJG	S	CONC
43	DKRGP	T00924B	METTRA	09/24/00	18:34	RJG	S	CONC
44	DKRGPP5	T00924B	METTRA	09/24/00	18:38	RJG	S	CONC
45	CCV3-4	T00924B	METTRA	09/24/00	18:43	RJG	S	CONC
46	CCB4	T00924B	METTRA	09/24/00	18:47	RJG	S	CONC
47	DKRGPS	T00924B	METTRA	09/24/00	18:51	RJG	S	CONC
48	DKRGPD	T00924B	METTRA	09/24/00	18:55	RJG	S	CONC
49	DKRH2	T00924B	METTRA	09/24/00	18:59	RJG	S	CONC
50	DKWFL	T00924B	METTRA	09/24/00	19:03	RJG	S	CONC
51	DKWFN	T00924B	METTRA	09/24/00	19:08	RJG	S	CONC
52	DKWMT	T00924B	METTRA	09/24/00	19:12	RJG	S	CONC
53	DKWMT/5	T00924B	METTRA	09/24/00	19:16	RJG	S	CONC

6721239

Analysis Report

Summary

09/25/00 05:05:15 AM

page 2

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	DKWMT/10	T00924B	METTRA	09/24/00	19:20	RJG	S	CONC
55	DKWMX	T00924B	METTRA	09/24/00	19:24	RJG	S	CONC
56	DKWMX/5	T00924B	METTRA	09/24/00	19:28	RJG	S	CONC
57	CCV3-5	T00924B	METTRA	09/24/00	19:32	RJG	S	CONC
58	CCB5	T00924B	METTRA	09/24/00	19:37	RJG	S	CONC
59	DKWMX/10	T00924B	METTRA	09/24/00	19:41	RJG	S	CONC
60	DKWND	T00924B	METTRA	09/24/00	19:45	RJG	S	CONC
61	DKVJW	T00924B	METTRA	09/24/00	19:49	RJG	S	CONC
62	DKVK3	T00924B	METTRA	09/24/00	19:53	RJG	S	CONC
63	DKVK4	T00924B	METTRA	09/24/00	19:57	RJG	S	CONC
64	CCV3-6	T00924B	METTRA	09/24/00	20:02	RJG	S	CONC
65	CCB6	T00924B	METTRA	09/24/00	20:06	RJG	S	CONC
66	DKKK7B	T00924B	METTRA	09/24/00	20:10	RJG	S	CONC
67	DKKK7C	T00924B	METTRA	09/24/00	20:14	RJG	S	CONC
68	DK0T1	T00924B	METTRA	09/24/00	20:18	RJG	S	CONC
69	DK0T2	T00924B	METTRA	09/24/00	20:22	RJG	S	CONC
70	DK0T3	T00924B	METTRA	09/24/00	20:26	RJG	S	CONC
71	DK0T5	T00924B	METTRA	09/24/00	20:31	RJG	S	CONC
72	DK0T5P5	T00924B	METTRA	09/24/00	20:35	RJG	S	CONC
73	DK0T5S	T00924B	METTRA	09/24/00	20:39	RJG	S	CONC
74	DK0T5D	T00924B	METTRA	09/24/00	20:43	RJG	S	CONC
75	DK0T6	T00924B	METTRA	09/24/00	20:47	RJG	S	CONC
76	CCV3-7	T00924B	METTRA	09/24/00	20:51	RJG	S	CONC
77	CCB7	T00924B	METTRA	09/24/00	20:56	RJG	S	CONC
78	DK0T7	T00924B	METTRA	09/24/00	21:00	RJG	S	CONC
79	DK0T8	T00924B	METTRA	09/24/00	21:04	RJG	S	CONC
80	DK0T9	T00924B	METTRA	09/24/00	21:08	RJG	S	CONC
81	DK0TA	T00924B	METTRA	09/24/00	21:12	RJG	S	CONC
82	DK0T1F	T00924B	METTRA	09/24/00	21:16	RJG	S	CONC
83	DK0T2F	T00924B	METTRA	09/24/00	21:21	RJG	S	CONC
84	DK0T3F	T00924B	METTRA	09/24/00	21:25	RJG	S	CONC
85	DK0T5F	T00924B	METTRA	09/24/00	21:29	RJG	S	CONC
86	DK0T5P5F	T00924B	METTRA	09/24/00	21:33	RJG	S	CONC
87	DK0T5SF	T00924B	METTRA	09/24/00	21:37	RJG	S	CONC
88	CCV3-8	T00924B	METTRA	09/24/00	21:41	RJG	S	CONC
89	CCB8	T00924B	METTRA	09/24/00	21:46	RJG	S	CONC
90	DK0T5DF	T00924B	METTRA	09/24/00	21:50	RJG	S	CONC
91	DK0T6F	T00924B	METTRA	09/24/00	21:54	RJG	S	CONC
92	DK0T7F	T00924B	METTRA	09/24/00	21:58	RJG	S	CONC
93	DK0T8F	T00924B	METTRA	09/24/00	22:02	RJG	S	CONC
94	DK0T9F	T00924B	METTRA	09/24/00	22:06	RJG	S	CONC
95	DK0TAF	T00924B	METTRA	09/24/00	22:11	RJG	S	CONC
96	CCV3-9	T00924B	METTRA	09/24/00	22:15	RJG	S	CONC
97	CCB9	T00924B	METTRA	09/24/00	22:19	RJG	S	CONC

Method: METTRA Standard: STD1
Run Time: 09/24/00 15:38:15

Elem	AG	AL	AS	BA	BE	CA	CD
Avge	-.00203	.03724	-.00031	.00065	-.02190	.00396	.00050
SDev	.00017	.00009	.00012	.00002	.00005	.00000	.00168
%RSD	8.4520	.25316	39.536	2.7359	.24811	.06756	334.27
#1	-.00191	.03731	-.00022	.00066	-.02186	.00396	.00169
#2	-.00215	.03718	-.00039	.00064	-.02193	.00396	-.00068
Elem	CO	CR	CU	FE	MG	MN	MO
Avge	-.00015	.00115	.00281	-.00037	-.00032	.00071	.00061
SDev	.00021	.00003	.00011	.00017	.00010	.00010	.00003
%RSD	141.42	2.9414	3.7568	47.080	32.700	14.563	5.7243
#1	.00000	.00112	.00288	-.00024	-.00039	.00064	.00064
#2	-.00029	.00117	.00274	-.00049	-.00024	.00078	.00059
Elem	NI	PB/1	PB/2	SB/1	SB/2	SE/1	SE/2
Avge	.00125	.01119	-.00171	-.00933	.00276	-.05755	.04423
SDev	.00031	.01354	.00774	.02833	.00660	.00491	.00038
%RSD	25.022	121.02	453.17	303.82	238.91	8.5346	.84890
#1	.00147	.00161	.00377	.01071	.00743	-.06102	.04450
#2	.00103	.02076	-.00718	-.02936	-.00191	-.05408	.04397
Elem	TL	V	ZN				
Avge	-.02773	.00007	-.00004				
SDev	.00548	.00003	.00002				
%RSD	19.745	47.201	47.201				
#1	-.02386	.00010	-.00005				
#2	-.03161	.00005	-.00002				

6721241

Standardization Rpt.

09/24/00 03:42:21 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20461	--	--	--	--	--	--
SDev	13.82449	--	--	--	--	--	--
%RSD	.0675663	--	--	--	--	--	--
#1	20451	--	--	--	--	--	--
#2	20470	--	--	--	--	--	--

Standardization Rpt.

09/24/00 03:46:31 PM

6721242 V
page 1Method: METTRA Standard: STD6
Run Time: 09/24/00 15:42:26

0057.02310

Elem	AG	AS	CD	PB/1	PB/2	SB/1	SB/2
Avge	8.2474	3.5598	10.877	5.0621	6.0344	6.9646	4.6253
SDev	.0064	.0118	.012	.0070	.0236	.0076	.0215
%RSD	.07793	.33254	.11272	.13862	.39133	.10864	.46425

#1	8.2519	3.5682	10.886	5.0572	6.0511	6.9699	4.6404
#2	8.2428	3.5515	10.868	5.0671	6.0177	6.9592	4.6101

Elem	SE/1	SE/2	TL
Avge	3.2008	3.1368	3.6192
SDev	.0109	.0126	.0074
%RSD	.34137	.40219	.20470

#1	3.1931	3.1279	3.6244
#2	3.2086	3.1457	3.6140

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20698	--	--	--	--	--	--
SDev	61.37742	--	--	--	--	--	--
%RSD	.2965451	--	--	--	--	--	--

#1	20741	--	--	--	--	--	--
#2	20654	--	--	--	--	--	--

6721243

Standardization Rpt.

09/24/00 03:50:12 PM

page 1 ✓

Method: METTRA Standard: STD7
 Run Time: 09/24/00 15:46:36

0057.024-1

Elem	AL	BA	BE	CA	CO	CR	CU
Avge	5.6490	11.028	9.9835	4.7551	2.6318	11.455	2.4113
SDev	.0001	.001	.0223	.0091	.0043	.019	.0010
%RSD	.00138	.00636	.22305	.19237	.16323	.16514	.04055

#1	5.6490	11.028	9.9677	4.7486	2.6288	11.442	2.4106
#2	5.6491	11.027	9.9992	4.7615	2.6348	11.468	2.4120

Elem	FE	MG	MN	MO	NI	V	ZN
Avge	3.8838	11.451	9.8368	1.5768	2.2075	.78129	2.2613
SDev	.0063	.018	.0145	.0074	.0043	.00141	.0040
%RSD	.16169	.16148	.14788	.46809	.19536	.18089	.17709

#1	3.8793	11.438	9.8265	1.5715	2.2045	.78029	2.2585
#2	3.8882	11.464	9.8471	1.5820	2.2106	.78229	2.2642

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20061	--	--	--	--	--	--
SDev	10.04175	--	--	--	--	--	--
%RSD	.0500558	--	--	--	--	--	--

#1	20068	--	--	--	--	--	--
#2	20054	--	--	--	--	--	--

Standardization

Report

09/24/00 03:50:13 PM

Method: METTRA

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD6	STD1	.242442	.000492	09/24/00 03:46:36
AL	308.215	STD7	STD1	8.93170	-.332637	09/24/00 03:46:36
AS	189.042	STD6	STD1	.280889	.000086	09/24/00 03:46:36
BA	493.409	STD7	STD1	.362736	-.000235	09/24/00 03:46:36
BE	313.042	STD7	STD1	.396298	.008677	09/24/00 03:46:36
CA	317.933	STD7	STD1	21.0477	-.083324	09/24/00 03:46:36
CD	226.502	STD6	STD1	.091941	-.000046	09/24/00 03:46:36
CO	228.616	STD7	STD1	1.51979	.000223	09/24/00 03:46:36
CR	267.716	STD7	STD1	.349056	-.000401	09/24/00 03:46:36
CU	324.753	STD7	STD1	1.66079	-.004667	09/24/00 03:46:36
FE	271.441	STD7	STD1	12.9718	.004754	09/24/00 03:46:36
MG	279.078	STD7	STD1	8.73241	.002774	09/24/00 03:46:36
MN	257.610	STD7	STD1	.406667	-.000288	09/24/00 03:46:36
MO	202.030	STD7	STD1	2.53783	-.001550	09/24/00 03:46:36
NI	231.604	STD7	STD1	1.81180	-.002258	09/24/00 03:46:36
PB/1	220.351	STD6	STD1	.197983	-.002215	09/24/00 03:46:36
PB/2	220.352	STD6	STD1	.165670	.000283	09/24/00 03:46:36
PB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SB/1	206.831	STD6	STD1	.143392	.001337	09/24/00 03:46:36
SB/2	206.832	STD6	STD1	.216333	-.000598	09/24/00 03:46:36
SB	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
SE/1	196.021	STD6	STD1	.306900	.017662	09/24/00 03:46:36
SE/2	196.022	STD6	STD1	.323356	-.014302	09/24/00 03:46:36
SE	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
TL	190.864	STD6	STD1	.548407	.015210	09/24/00 03:46:36
V	292.402	STD7	STD1	5.09788	-.000374	09/24/00 03:46:36
ZN	213.856	STD7	STD1	1.78096	.000065	09/24/00 03:46:36

Method: METTRA Sample Name: ICV3-1 0057-073-4 Operator: RJG
Run Time: 09/24/00 15:50:16
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

CD 9.2400

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50670	12.152	.26122	1.0066	.98604	25.053	.25542
SDev	.00161	.053	.00029	.0040	.00477	.137	.00053
%RSD	.31819	.43989	.11001	.39788	.48338	.54597	.20905
#1	.50784	12.190	.26142	1.0094	.98941	25.150	.25579
#2	.50556	12.114	.26102	1.0037	.98267	24.957	.25504
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	13.750	.27500	1.1000	1.1000	27.500	.27500
Low	.45000	11.250	.22500	.90000	.90000	22.500	.22500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0065	1.0164	.97924	12.621	24.459	.98647	1.0061
SDev	.0023	.0044	.00459	.028	.115	.00336	.0023
%RSD	.22417	.43191	.46896	.21839	.47198	.34112	.23169
#1	1.0081	1.0195	.98249	12.641	24.540	.98885	1.0078
#2	1.0049	1.0133	.97599	12.602	24.377	.98409	1.0045
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	13.750	27.500	1.1000	1.1000
Low	.90000	.90000	.90000	11.250	22.500	.90000	.90000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0103	.25616	.25651	.25640	.26028	.25940	.25969
SDev	.0072	.00161	.00295	.00143	.00162	.00054	.00090
%RSD	.71179	.62684	1.1484	.55783	.62247	.20897	.34698
#1	1.0154	.25502	.25860	.25741	.26143	.25978	.26033
#2	1.0053	.25729	.25443	.25538	.25914	.25901	.25905
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	1.1000			.27500			.27500
Low	.90000			.22500			.22500
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.26234	.26422	.26359	.52142	1.0052	1.0180	
SDev	.00086	.00004	.00031	.00132	.0069	.0039	
%RSD	.32696	.01535	.11863	.25306	.68242	.38026	
#1	.26295	.26424	.26381	.52235	1.0100	1.0208	
#2	.26174	.26419	.26337	.52049	1.0003	1.0153	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.27500	.55000	1.1000	1.1000	
Low			.22500	.45000	.90000	.90000	

Analysis Report

09/24/00 03:54:22 PM

6721246
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20398	--	--	--	--	--	--
SDev	4.455325	--	--	--	--	--	--
%RSD	.0218414	--	--	--	--	--	--
#1	20402	--	--	--	--	--	--
#2	20395	--	--	--	--	--	--

Method: METTRA Sample Name: ICB1

Operator: RJG

Run Time: 09/24/00 15:54:26

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00055	.01134	-.00144	.00042	.00033	.00856	.00008
SDev	.00038	.00345	.00041	.00004	.00006	.00053	.00017
%RSD	69.162	30.385	28.494	8.4951	18.121	6.2044	212.53
#1	.00028	.01377	-.00115	.00040	.00029	.00818	.00020
#2	.00082	.00890	-.00173	.00045	.00038	.00893	-.00004
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00022	.00060	.00028	.00599	.01141	.00037	.00359
SDev	.00000	.00011	.00007	.00089	.00266	.00004	.00036
%RSD	.00000	18.141	26.813	14.855	23.346	10.917	9.9326
#1	.00022	.00068	.00023	.00662	.00952	.00034	.00384
#2	.00022	.00052	.00033	.00536	.01329	.00040	.00334
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00042	.00225	.00055	.00112	-.00068	.00053	.00013
SDev	.00025	.00016	.00013	.00003	.00296	.00204	.00038
%RSD	59.380	7.1603	23.963	3.0358	435.21	385.13	295.71
#1	-.00025	.00214	.00064	.00114	.00141	-.00091	-.00014
#2	-.00060	.00237	.00046	.00109	-.00277	.00197	.00039
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00224	.00049	.00107	.00086	.00012	.00043	
SDev	.00429	.00393	.00405	.00171	.00035	.00021	
%RSD	191.58	802.15	377.54	198.35	289.32	49.416	
#1	-.00079	-.00229	-.00179	.00207	-.00013	.00028	
#2	.00527	.00327	.00394	-.00035	.00036	.00058	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 03:58:31 PM

6721248

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20732	--	--	--	--	--	--
SDev	42.21510	--	--	--	--	--	--
%RSD	.2036268	--	--	--	--	--	--
#1	20702	--	--	--	--	--	--
#2	20761	--	--	--	--	--	--

6721249

Analysis Report

QC Standard

09/24/00 04:02:41 PM

page 1

Method: METTRA Sample Name: ICSA 0057-078-10 Operator: RJG
 Run Time: 09/24/00 15:58:35
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00053	508.24	.00212	.00171	-.00077	480.22	.00451
SDev	.00007	.91	.00119	.00000	.00000	.36	.00005
%RSD	13.712	.17924	56.058	.16713	.36700	.07588	1.0977
#1	.00058	507.60	.00296	.00171	-.00077	480.48	.00447
#2	.00048	508.89	.00128	.00171	-.00077	479.96	.00454
Errors	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK
Value		500.00				500.00	
Range		20.000				20.000	
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00002	.00269	-.00056	194.50	511.72	.00810	-.00054
SDev	.00011	.00015	.00052	.23	.00	.00000	.00162
%RSD	605.48	5.5806	93.701	.11911	.00022	.02144	299.24
#1	-.00010	.00258	-.00092	194.34	511.72	.00810	.00060
#2	.00006	.00280	-.00019	194.67	511.72	.00810	-.00168
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK	NOCHECK
Value				200.00	500.00		
Range				20.000	20.000		
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00077	-.01585	.01413	.00415	-.00206	.00224	.00081
SDev	.00006	.00210	.00154	.00033	.00687	.00689	.00231
%RSD	8.4227	13.250	10.921	7.9580	333.86	307.94	285.93
#1	-.00082	-.01436	.01304	.00391	-.00692	.00711	.00244
#2	-.00072	-.01733	.01522	.00438	.00280	-.00264	-.00082
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00936	-.01238	-.00514	.00590	.01759	.00310	
SDev	.00691	.00862	.00345	.00436	.00020	.00001	
%RSD	73.791	69.647	67.133	73.866	1.1370	.45038	
#1	.01424	-.01848	-.00758	.00282	.01773	.00309	
#2	.00448	-.00628	-.00270	.00898	.01744	.00311	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	
Value							
Range							

Analysis Report

QC Standard

09/24/00 04:02:41 PM

6721250
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18880	--	--	--	--	--	--
SDev	38.18377	--	--	--	--	--	--
%RSD	.2022488	--	--	--	--	--	--
#1	18853	--	--	--	--	--	--
#2	18907	--	--	--	--	--	--

6721251

Analysis Report

QC Standard

09/24/00 04:06:50 PM

page 1

Method: METTRA Sample Name: ICSAB 0057-059-3 Operator: RJG
 Run Time: 09/24/00 16:02:44
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1253	532.13	1.1209	.53217	.50663	500.55	1.0136
SDev	.0018	.45	.0071	.00115	.00199	1.50	.0036
%RSD	.15642	.08428	.63232	.21563	.39360	.30052	.35817
#1	1.1265	532.45	1.1260	.53298	.50804	501.62	1.0162
#2	1.1240	531.82	1.1159	.53135	.50522	499.49	1.0110
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	500.00	1.0000	.50000	.50000	500.00	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50913	.51700	.54589	203.64	532.93	.51497	1.0563
SDev	.00168	.00185	.00110	.43	1.01	.00116	.0008
%RSD	.32912	.35801	.20231	.21304	.18863	.22443	.07714
#1	.51032	.51831	.54667	203.94	533.64	.51579	1.0569
#2	.50795	.51569	.54511	203.33	532.22	.51415	1.0558
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	500.00	.50000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0017	1.0252	1.0482	1.0405	1.1017	1.1113	1.1081
SDev	.0077	.0091	.0099	.0036	.0115	.0104	.0031
%RSD	.76618	.88699	.94112	.34133	1.0405	.93426	.28047
#1	1.0071	1.0316	1.0412	1.0380	1.0936	1.1187	1.1103
#2	.99628	1.0187	1.0551	1.0430	1.1098	1.1040	1.1059
Errors	QC Pass	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	1.0000			1.0000			1.0000
Range	20.000			20.000			20.000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.1247	1.0882	1.1003	1.0979	.53719	1.0919	
SDev	.0099	.0033	.0011	.0052	.00560	.0030	
%RSD	.88078	.30618	.09784	.47174	1.0423	.27134	
#1	1.1317	1.0858	1.1011	1.1016	.54115	1.0940	
#2	1.1177	1.0905	1.0996	1.0943	.53324	1.0898	
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	
Value			1.0000	1.0000	.50000	1.0000	
Range			20.000	20.000	20.000	20.000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18350	--	--	--	--	--	--
SDev	75.20191	--	--	--	--	--	--
%RSD	.4098247	--	--	--	--	--	--
#1	18297	--	--	--	--	--	--
#2	18403	--	--	--	--	--	--

6721253

Analysis Report

09/24/00 04:13:15 PM

page 1

Method: METTRA Sample Name: DKQFPB

Operator: RJG

Run Time: 09/24/00 16:09:10

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.03917	-.00073	.00033	.00006	.06416	.00020
SDev	.00017	.00460	.00018	.00001	.00007	.00167	.00015
%RSD	334.27	11.735	24.124	1.6062	121.73	2.6041	75.095
#1	-.00007	.04242	-.00060	.00033	.00001	.06534	.00030
#2	.00018	.03592	-.00085	.00033	.00011	.06298	.00009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00042	.00255	.00055	.01984	.03548	.00063	.00127
SDev	.00018	.00007	.00022	.00171	.00393	.00001	.00017
%RSD	43.514	2.6396	39.843	8.6435	11.078	1.9911	13.306
#1	-.00055	.00250	.00039	.01863	.03826	.00062	.00115
#2	-.00029	.00260	.00070	.02105	.03270	.00063	.00139
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	.00402	-.00005	.00130	-.00096	.00140	.00061
SDev	.00031	.00042	.00010	.00007	.00008	.00120	.00083
%RSD	94.302	10.464	198.07	5.5136	8.7536	86.210	135.80
#1	.00011	.00431	-.00012	.00135	-.00102	.00055	.00002
#2	.00054	.00372	.00002	.00125	-.00090	.00225	.00120
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00098	-.00092	-.00029	.00135	.00111	.00436	
SDev	.00186	.00424	.00345	.00051	.00209	.00011	
%RSD	189.12	459.74	1197.7	37.370	188.23	2.5918	
#1	-.00033	-.00392	-.00273	.00100	-.00037	.00428	
#2	.00230	.00208	.00215	.00171	.00259	.00444	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 04:13:15 PM

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20694	--	--	--	--	--	--
SDev	32.59735	--	--	--	--	--	--
%RSD	.1575227	--	--	--	--	--	--
#1	20671	--	--	--	--	--	--
#2	20717	--	--	--	--	--	--

Analysis Report

09/24/00 04:17:24 PM

page 1

Method: METTRA Sample Name: DKQFPC

Operator: RJG

Run Time: 09/24/00 16:13:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05121	1.9459	2.0431	2.0853	.04986	L.14435	.05070
SDev	.00032	.0035	.0118	.0074	.00035	.00003	.00009
%RSD	.63389	.18080	.57875	.35289	.70601	.02318	.18332
#1	.05098	1.9434	2.0514	2.0905	.05011	L.14437	.05077
#2	.05144	1.9484	2.0347	2.0801	.04961	L.14433	.05064
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51662	.21173	.25684	1.0572	L.01812	.50809	L.00173
SDev	.00044	.00038	.00002	.0072	.00417	.00073	.00027
%RSD	.08489	.17767	.00611	.68202	23.016	.14341	15.792
#1	.51693	.21147	.25683	1.0623	L.01517	.50861	L.00193
#2	.51631	.21200	.25685	1.0521	L.02107	.50758	L.00154
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52172	.51661	.50525	.50903	-.00115	.00221	L.00109
SDev	.00425	.00192	.00830	.00490	.00180	.00052	.00026
%RSD	.81490	.37197	1.6437	.96249	157.17	23.433	23.448
#1	.52472	.51797	.49937	.50557	-.00242	.00257	L.00091
#2	.51871	.51525	.51112	.51249	.00013	.00184	L.00127
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.9767	1.9220	1.9402	2.0634	.51360	.52434	
SDev	.0050	.0287	.0175	.0037	.00277	.00131	
%RSD	.25272	1.4918	.89997	.18171	.54007	.24917	
#1	1.9803	1.9017	1.9279	2.0608	.51556	.52526	
#2	1.9732	1.9423	1.9526	2.0661	.51164	.52341	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

Analysis Report

09/24/00 04:17:24 PM

6721256
- page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20477	--	--	--	--	--	--
SDev	68.37805	--	--	--	--	--	--
%RSD	.3339270	--	--	--	--	--	--
#1	20429	--	--	--	--	--	--
#2	20525	--	--	--	--	--	--

6721257

Analysis Report

09/24/00 04:21:33 PM

page 1

Method: METTRA Sample Name: DKPGW

Operator: RJG

Run Time: 09/24/00 16:17:28

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00019	62.693	.09221	.75063	.00710	19.396	.00392
SDev	.00025	.003	.00160	.00094	.00009	.051	.00032
%RSD	135.22	.00466	1.7325	.12469	1.1904	.26487	8.0659
#1	.00037	62.695	.09334	.75130	.00716	19.432	.00370
#2	.00001	62.691	.09108	.74997	.00704	19.360	.00415
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09113	.16143	.15905	284.81	21.159	1.3281	.00206
SDev	.00024	.00003	.00029	.04	.041	.0012	.00068
%RSD	.26370	.01528	.18032	.01355	.19433	.09157	32.825
#1	.09096	.16141	.15885	284.84	21.188	1.3290	.00254
#2	.09130	.16145	.15926	284.79	21.130	1.3272	.00158
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.15851	.11779	.11449	.11559	.00345	.00482	.00436
SDev	.00144	.00275	.00012	.00099	.00520	.00086	.00116
%RSD	.90944	2.3380	.10093	.86004	151.02	17.793	26.614
#1	.15952	.11973	.11457	.11629	-.00023	.00543	.00354
#2	.15749	.11584	.11441	.11488	.00713	.00421	.00518
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00797	.00286	.00457	.01355	.19340	.57386	
SDev	.00286	.00104	.00165	.00450	.00161	.00026	
%RSD	35.843	36.347	36.054	33.248	.83075	.04582	
#1	.00999	.00360	.00573	.01673	.19454	.57367	
#2	.00595	.00213	.00340	.01036	.19226	.57404	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 04:21:33 PM

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21077	--	--	--	--	--	--
SDev	26.16295	--	--	--	--	--	--
%RSD	.1241303	--	--	--	--	--	--
#1	21096	--	--	--	--	--	--
#2	21058	--	--	--	--	--	--

Method: METTRA Sample Name: DKPGWP5

Operator: RJG

Run Time: 09/24/00 16:21:36

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	12.022	.01850	.14827	.00156	3.8683	.00082
SDev	.00009	.013	.00033	.00006	.00001	.0095	.00007
%RSD	26.661	.10692	1.7757	.03751	.52230	.24684	8.2436
#1	.00039	12.031	.01826	.14831	.00155	3.8751	.00077
#2	.00027	12.013	.01873	.14823	.00157	3.8616	.00087

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01759	.03220	.02980	56.674	4.1971	.26158	-.00013
SDev	.00043	.00003	.00006	.049	.0113	.00023	.00050
%RSD	2.4270	.09408	.18863	.08614	.27029	.08767	373.26
#1	.01789	.03218	.02976	56.708	4.2051	.26174	-.00049
#2	.01728	.03222	.02984	56.639	4.1891	.26142	.00022

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03072	.02535	.02171	.02292	-.00184	.00220	.00086
SDev	.00043	.00139	.00034	.00069	.00091	.00116	.00047
%RSD	1.3864	5.4891	1.5548	3.0038	49.587	52.736	54.990
#1	.03042	.02437	.02147	.02243	-.00120	.00138	.00052
#2	.03102	.02634	.02195	.02341	-.00249	.00303	.00119

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00762	.00331	.00474	.00579	.03816	.11317
SDev	.00047	.00138	.00108	.00023	.00038	.00003
%RSD	6.1864	41.761	22.728	4.0417	.99960	.03099
#1	.00729	.00233	.00398	.00596	.03843	.11320
#2	.00796	.00428	.00551	.00563	.03789	.11315

Analysis Report

09/24/00 04:25:41 PM

6721260
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21489	--	--	--	--	--	--
SDev	33.09315	--	--	--	--	--	--
%RSD	.1540011	--	--	--	--	--	--
#1	21466	--	--	--	--	--	--
#2	21512	--	--	--	--	--	--

Method: METTRA Sample Name: DKPGWS

Operator: RJG

Run Time: 09/24/00 16:26:11

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04860	75.123	2.0806	2.5290	.05493	21.931	.05132
SDev	.00098	1.105	.0346	.0400	.00093	.411	.00119
%RSD	2.0075	1.4715	1.6636	1.5814	1.6839	1.8755	2.3166
#1	.04929	75.905	2.1051	2.5573	.05558	22.221	.05216
#2	.04791	74.342	2.0562	2.5007	.05427	21.640	.05047
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.57420	.40407	.42368	331.95	25.553	2.2806	.00192
SDev	.01043	.00747	.00614	5.26	.437	.0377	.00036
%RSD	1.8170	1.8477	1.4495	1.5839	1.7085	1.6544	18.872
#1	.58158	.40935	.42802	335.67	25.862	2.3073	.00167
#2	.56682	.39879	.41933	328.23	25.244	2.2539	.00218
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.67069	.62896	.62425	.62582	.00730	.00381	.00498
SDev	.01220	.01378	.00999	.01125	.00050	.00056	.00020
%RSD	1.8197	2.1903	1.5995	1.7972	6.9015	14.579	4.0834
#1	.67932	.63870	.63131	.63377	.00766	.00342	.00483
#2	.66206	.61922	.61719	.61786	.00694	.00421	.00512
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9867	2.0016	1.9966	1.8573	.70965	1.1350	
SDev	.0512	.0259	.0343	.0242	.01405	.0206	
%RSD	2.5762	1.2944	1.7191	1.3044	1.9794	1.8165	
#1	2.0229	2.0199	2.0209	1.8744	.71959	1.1496	
#2	1.9505	1.9833	1.9724	1.8401	.69972	1.1204	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 04:30:16 PM

	1	2	3	4	5	6	7
IntStd	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Mode	Y	--	--	--	--	--	--
Elem	371.030	--	--	--	--	--	--
Wavlen	21540	--	--	--	--	--	--
Avge	333.5072	--	--	--	--	--	--
SDev	1.548281	--	--	--	--	--	--
%RSD							
#1	21305	--	--	--	--	--	--
#2	21776	--	--	--	--	--	--

6721263

Analysis Report

09/24/00 04:34:25 PM

page 1

Method: METTRA Sample Name: DKPGWD

Operator: RJG

Run Time: 09/24/00 16:30:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04893	53.550	2.0966	2.3336	.05275	80.798	.05124
SDev	.00002	.217	.0011	.0026	.00005	.157	.00027
%RSD	.04343	.40483	.05190	.11124	.10135	.19428	.52239
#1	.04894	53.397	2.0973	2.3318	.05271	80.687	.05105
#2	.04891	53.703	2.0958	2.3355	.05279	80.909	.05143
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.54968	.34459	.43477	292.84	16.019	1.6746	.00359
SDev	.00030	.00019	.00088	.87	.042	.0049	.00115
%RSD	.05475	.05620	.20290	.29677	.26161	.29212	32.039
#1	.54947	.34445	.43415	292.22	15.989	1.6711	.00278
#2	.54990	.34472	.43540	293.45	16.048	1.6780	.00440
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61288	.60154	.59395	.59648	.00332	.00471	.00424
SDev	.00300	.00231	.00103	.00145	.00123	.00172	.00074
%RSD	.49032	.38314	.17350	.24390	37.166	36.509	17.335
#1	.61076	.59991	.59322	.59545	.00245	.00592	.00476
#2	.61501	.60317	.59468	.59751	.00419	.00349	.00372
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9578	1.9435	1.9482	1.8823	.64424	1.0156	
SDev	.0052	.0091	.0044	.0064	.00278	.0020	
%RSD	.26382	.46924	.22394	.34041	.43109	.19408	
#1	1.9614	1.9370	1.9451	1.8777	.64228	1.0142	
#2	1.9541	1.9499	1.9513	1.8868	.64621	1.0170	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 04:34:25 PM

6721264
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21717	--	--	--	--	--	--
SDev	27.22361	--	--	--	--	--	--
%RSD	.1253562	--	--	--	--	--	--
#1	21698	--	--	--	--	--	--
#2	21736	--	--	--	--	--	--

Method: METTRA Sample Name: DKPH0

Operator: RJG

Run Time: 09/24/00 16:34:28

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00073	46.819	.15923	.31951	.00529	36.933	.00437
SDev	.00079	.426	.00000	.00191	.00001	.190	.00029
%RSD	108.09	.90905	.00178	.59792	.08519	.51349	6.5912
#1	.00128	46.518	.15923	.31816	.00529	36.799	.00417
#2	.00017	47.120	.15923	.32087	.00528	37.067	.00458
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04691	.14293	.20943	292.08	9.2769	.64576	.00456
SDev	.00004	.00071	.00182	2.17	.0550	.00425	.00064
%RSD	.07833	.49985	.86749	.74466	.59305	.65811	13.917
#1	.04693	.14242	.20814	290.54	9.2380	.64275	.00501
#2	.04688	.14343	.21071	293.61	9.3158	.64876	.00411
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10472	.12159	.11546	.11750	.00569	.00606	.00594
SDev	.00083	.00239	.00001	.00079	.00105	.00151	.00066
%RSD	.79415	1.9650	.00939	.67091	18.402	24.908	11.087
#1	.10413	.12328	.11546	.11806	.00495	.00713	.00640
#2	.10531	.11990	.11547	.11695	.00643	.00499	.00547
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01545	.00857	.01086	.01731	.18121	.26592	
SDev	.00106	.00556	.00336	.00063	.00180	.00139	
%RSD	6.8429	64.879	30.897	3.6578	.99193	.52387	
#1	.01620	.00464	.00849	.01687	.18248	.26493	
#2	.01471	.01250	.01323	.01776	.17994	.26690	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 04:38:33 PM

6721266
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21998	--	--	--	--	--	--
SDev	63.25153	--	--	--	--	--	--
%RSD	.2875321	--	--	--	--	--	--
#1	22043	--	--	--	--	--	--
#2	21953	--	--	--	--	--	--

6721267

Analysis Report

09/24/00 04:42:42 PM

page 1

Method: METTRA Sample Name: DKPH5

Operator: RJG

Run Time: 09/24/00 16:38:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00024	48.194	.11460	.48353	.00727	11.247	.00485
SDev	.00041	1.249	.00206	.01202	.00001	.277	.00023
%RSD	170.41	2.5923	1.7973	2.4855	.14765	2.4604	4.7585
#1	-.00005	47.311	.11314	.47503	.00728	11.051	.00469
#2	.00053	49.078	.11605	.49202	.00727	11.443	.00501
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03471	.15002	.14097	387.82	12.248	.54872	.00144
SDev	.00114	.00402	.00332	10.09	.304	.01414	.00014
%RSD	3.2730	2.6810	2.3543	2.6026	2.4809	2.5764	9.9175
#1	.03390	.14718	.13863	380.69	12.033	.53872	.00134
#2	.03551	.15287	.14332	394.96	12.463	.55872	.00154
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07614	.11324	.10578	.10826	.00446	.00543	.00511
SDev	.00299	.00281	.00451	.00394	.00200	.00151	.00167
%RSD	3.9231	2.4812	4.2647	3.6435	44.766	27.823	32.749
#1	.07403	.11125	.10259	.10548	.00305	.00436	.00392
#2	.07825	.11522	.10897	.11105	.00587	.00650	.00629
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01478	.00363	.00734	.01292	.19753	.29917	
SDev	.00350	.00151	.00217	.00217	.00594	.00768	
%RSD	23.657	41.674	29.597	16.794	3.0064	2.5675	
#1	.01726	.00470	.00888	.01139	.19333	.29374	
#2	.01231	.00256	.00581	.01446	.20172	.30460	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 04:42:42 PM

6721268
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21668	--	--	--	--	--	--
SDev	433.3156	--	--	--	--	--	--
%RSD	1.999772	--	--	--	--	--	--
#1	21975	--	--	--	--	--	--
#2	21362	--	--	--	--	--	--

6721269

Analysis Report

09/24/00 04:46:50 PM

page 1

Method: METTRA Sample Name: CCV3-1 0057-062-6 Operator: RJG
 Run Time: 09/24/00 16:42:45
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0456	25.417	.53482	2.0575	2.0405	51.621	.51400
SDev	.0152	.366	.00918	.0348	.0348	.904	.00789
%RSD	1.4575	1.4399	1.7171	1.6894	1.7032	1.7504	1.5356
#1	1.0564	25.675	.54132	2.0821	2.0651	52.260	.51958
#2	1.0348	25.158	.52833	2.0330	2.0160	50.982	.50842
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0545	2.0652	2.0447	26.013	50.774	2.0378	2.0452
SDev	.0329	.0322	.0320	.373	.780	.0314	.0199
%RSD	1.6001	1.5596	1.5667	1.4326	1.5364	1.5384	.97148
#1	2.0777	2.0880	2.0674	26.276	51.325	2.0600	2.0593
#2	2.0312	2.0425	2.0221	25.749	50.222	2.0157	2.0312
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0705	.52282	.52044	.52124	.52739	.53378	.53165
SDev	.0416	.00683	.00375	.00477	.00262	.00845	.00651
%RSD	2.0080	1.3055	.72082	.91611	.49757	1.5835	1.2248
#1	2.0999	.52765	.52310	.52461	.52924	.53976	.53626
#2	2.0411	.51800	.51779	.51786	.52553	.52780	.52705
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.53912	.53838	.53863	1.0695	2.0550	2.0641	
SDev	.00874	.00182	.00170	.0163	.0370	.0351	
%RSD	1.6221	.33796	.31534	1.5246	1.7995	1.7019	
#1	.54530	.53709	.53983	1.0811	2.0812	2.0889	
#2	.53293	.53967	.53742	1.0580	2.0289	2.0392	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

Analysis Report

09/24/00 04:46:50 PM

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page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20449	--	--	--	--	--	--
SDev	253.7450	--	--	--	--	--	--
%RSD	1.240854	--	--	--	--	--	--
#1	20270	--	--	--	--	--	--
#2	20629	--	--	--	--	--	--

6721271

Analysis Report

09/24/00 04:50:59 PM

page 1

Method: METTRA Sample Name: CCB1

Operator: RJG

Run Time: 09/24/00 16:46:54

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00016	.02554	-.00051	.00069	.00049	.01681	.00022
SDev	.00019	.00573	.00034	.00020	.00012	.00563	.00004
%RSD	120.76	22.440	67.838	28.837	24.924	33.505	18.093
#1	.00030	.02149	-.00026	.00055	.00041	.01283	.00019
#2	.00002	.02959	-.00075	.00083	.00058	.02079	.00025
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00024	.00041	.00040	.06711	.01655	.00065	.00425
SDev	.00035	.00002	.00019	.02331	.00320	.00019	.00093
%RSD	146.05	5.7209	48.953	34.732	19.346	29.187	21.861
#1	-.00049	.00042	.00026	.05062	.01429	.00052	.00490
#2	.00001	.00039	.00054	.08359	.01882	.00078	.00359
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00145	.00278	-.00023	.00078	-.00042	.00255	.00156
SDev	.00042	.00064	.00077	.00073	.00063	.00110	.00094
%RSD	29.209	22.837	342.91	93.600	150.58	42.981	60.344
#1	-.00175	.00233	-.00077	.00026	-.00087	.00177	.00089
#2	-.00115	.00323	.00032	.00129	.00003	.00332	.00223
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00364	.00103	.00190	.00217	.00013	.00063	
SDev	.00040	.00182	.00108	.00241	.00069	.00020	
%RSD	10.892	176.56	56.963	110.86	528.96	32.119	
#1	.00336	.00232	.00266	.00047	-.00036	.00049	
#2	.00392	-.00026	.00113	.00388	.00062	.00077	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 04:50:59 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21230	--	--	--	--	--	--
SDev	4.879313	--	--	--	--	--	--
%RSD	.0229826	--	--	--	--	--	--
#1	21234	--	--	--	--	--	--
#2	21227	--	--	--	--	--	--

6721273

Analysis Report

09/24/00 04:55:08 PM

page 1

Method: METTRA Sample Name: DKPH6 Operator: RJG
 Run Time: 09/24/00 16:51:03
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00081	49.012	.27348	.44839	.00419	22.277	.00509
SDev	.00018	.011	.00347	.00112	.00007	.113	.00005
%RSD	22.761	.02181	1.2694	.24939	1.6482	.50765	1.0698
#1	.00095	49.004	.27594	.44918	.00415	22.357	.00513
#2	.00068	49.019	.27103	.44760	.00424	22.197	.00505
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04299	.14637	.11051	356.90	13.056	.64587	.00657
SDev	.00025	.00161	.00026	1.17	.051	.00232	.00062
%RSD	.59164	1.0971	.23800	.32792	.38776	.35866	9.4482
#1	.04317	.14751	.11070	357.73	13.092	.64750	.00701
#2	.04281	.14524	.11033	356.08	13.021	.64423	.00613
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09386	.18714	.18021	.18252	.00551	.00372	.00432
SDev	.00160	.00444	.00146	.00050	.00238	.00078	.00027
%RSD	1.7033	2.3729	.81251	.27507	43.175	20.997	6.2914
#1	.09499	.19028	.17918	.18287	.00383	.00427	.00412
#2	.09273	.18400	.18125	.18216	.00719	.00317	.00451
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01409	.00642	.00897	.01373	.20088	.21892	
SDev	.00113	.00329	.00182	.00140	.00107	.00016	
%RSD	8.0069	51.313	20.287	10.221	.53074	.07204	
#1	.01489	.00409	.00769	.01274	.20163	.21903	
#2	.01329	.00874	.01026	.01472	.20013	.21881	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 04:55:08 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21420	--	--	--	--	--	--
SDev	89.69622	--	--	--	--	--	--
%RSD	.4187572	--	--	--	--	--	--
#1	21356	--	--	--	--	--	--
#2	21483	--	--	--	--	--	--

Method: METTRA Sample Name: DKPH7

Operator: RJG

Run Time: 09/24/00 16:55:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00053	142.24	.32953	.65850	.01147	16.907	.00950
SDev	.00044	.99	.00268	.00441	.00014	.127	.00019
%RSD	83.431	.69759	.81220	.66987	1.2337	.75317	2.0491

#1	-.00085	142.94	.33142	.66161	.01157	16.997	.00963
#2	-.00022	141.53	.32764	.65538	.01137	16.817	.00936

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07675	.29597	.13700	H611.29	16.470	1.1090	.00597
SDev	.00101	.00170	.00092	3.52	.114	.0072	.00112
%RSD	1.3193	.57611	.67383	.57616	.69245	.64955	18.785

#1	.07746	.29718	.13765	H613.78	16.551	1.1141	.00676
#2	.07603	.29477	.13635	H608.80	16.390	1.1039	.00517

Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15828	.20193	.19915	.20007	.00695	.00669	.00678
SDev	.00196	.00207	.00008	.00064	.00404	.00170	.00248
%RSD	1.2382	1.0245	.03845	.31881	58.109	25.452	36.601

#1	.15966	.20340	.19909	.20053	.00981	.00790	.00853
#2	.15689	.20047	.19920	.19962	.00409	.00549	.00502

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02332	-.00230	.00623	.01961	.34215	.46666
SDev	.00513	.00411	.00445	.00021	.00583	.00214
%RSD	21.980	179.01	71.416	1.0840	1.7041	.45872

#1	.01970	-.00521	.00309	.01976	.34628	.46817
#2	.02695	.00061	.00938	.01946	.33803	.46515

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 04:59:17 PM

6721276
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21445	--	--	--	--	--	--
SDev	94.15154	--	--	--	--	--	--
%RSD	.4390388	--	--	--	--	--	--
#1	21378	--	--	--	--	--	--
#2	21512	--	--	--	--	--	--

Method: METTRA Sample Name: DKPH8

Operator: RJG

Run Time: 09/24/00 16:59:21

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	85.859	.32131	1.1730	.00953	15.640	.00593
SDev	.00047	.106	.00066	.0025	.00000	.016	.00007
%RSD	92.859	.12320	.20452	.21401	.00673	.10074	1.2315
#1	.00017	85.933	.32085	1.1748	.00953	15.651	.00598
#2	.00083	85.784	.32178	1.1712	.00953	15.629	.00587
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12706	.22082	.12795	444.73	32.535	2.5800	.01948
SDev	.00024	.00001	.00012	.43	.027	.0023	.00056
%RSD	.19067	.00550	.09301	.09586	.08408	.08789	2.8858
#1	.12723	.22083	.12804	445.04	32.554	2.5816	.01909
#2	.12689	.22081	.12787	444.43	32.516	2.5784	.01988
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21805	.29214	.28809	.28944	.01261	.00723	.00902
SDev	.00013	.00175	.00113	.00134	.00238	.00150	.00021
%RSD	.06042	.59902	.39272	.46206	18.840	20.772	2.3291
#1	.21796	.29338	.28889	.29039	.01429	.00617	.00887
#2	.21815	.29091	.28729	.28850	.01093	.00829	.00917
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.01367	.00442	.00750	.02205	.24683	.60560	
SDev	.00547	.00290	.00011	.00024	.00027	.00129	
%RSD	40.054	65.437	1.4411	1.0908	.10921	.21311	
#1	.00979	.00647	.00758	.02188	.24703	.60652	
#2	.01754	.00238	.00742	.02222	.24664	.60469	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 05:03:27 PM

6721278
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21295	--	--	--	--	--	--
SDev	27.96524	--	--	--	--	--	--
%RSD	.1313210	--	--	--	--	--	--
#1	21276	--	--	--	--	--	--
#2	21315	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-2

Operator: RJG

Run Time: 09/24/00 17:03:30

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0206	24.804	.52112	2.0020	1.9846	50.225	.50006
SDev	.0012	.102	.00194	.0041	.0017	.038	.00088
%RSD	.11311	.41163	.37226	.20249	.08741	.07663	.17641
#1	1.0198	24.732	.51975	1.9991	1.9834	50.197	.49944
#2	1.0214	24.877	.52249	2.0048	1.9859	50.252	.50069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9999	2.0120	1.9925	25.352	49.540	1.9856	1.9932
SDev	.0037	.0028	.0051	.063	.059	.0032	.0098
%RSD	.18510	.13672	.25387	.24975	.11990	.15917	.49306
#1	1.9973	2.0100	1.9890	25.307	49.498	1.9833	1.9863
#2	2.0025	2.0139	1.9961	25.397	49.582	1.9878	2.0002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0084	.50917	.50859	.50878	.51612	.51876	.51788
SDev	.0022	.00107	.00149	.00064	.00068	.00224	.00127
%RSD	.10975	.20962	.29262	.12524	.13076	.43093	.24452
#1	2.0068	.50992	.50753	.50833	.51564	.52034	.51878
#2	2.0099	.50841	.50964	.50923	.51660	.51718	.51699
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.52613	.52538	.52563	1.0435	1.9982	2.0068	
SDev	.00019	.00086	.00051	.0014	.0001	.0030	
%RSD	.03709	.16416	.09708	.13519	.00287	.15160	
#1	.52627	.52477	.52527	1.0445	1.9981	2.0047	
#2	.52599	.52599	.52599	1.0425	1.9982	2.0090	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

Analysis Report

09/24/00 05:07:36 PM

6721280
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20886	--	--	--	--	--	--
SDev	3.252415	--	--	--	--	--	--
%RSD	.0155719	--	--	--	--	--	--
#1	20884	--	--	--	--	--	--
#2	20889	--	--	--	--	--	--

6721281

Analysis Report

09/24/00 05:11:45 PM

page 1

Method: METTRA Sample Name: CCB2

Operator: RJG

Run Time: 09/24/00 17:07:39

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00056	.03503	.00149	.00068	.00038	.00972	.00009
SDev	.00015	.00421	.00110	.00010	.00003	.00236	.00012
%RSD	26.254	12.034	73.870	14.659	7.9469	24.243	141.30
#1	.00067	.03204	.00227	.00061	.00040	.00805	.00017
#2	.00046	.03801	.00071	.00075	.00036	.01139	.00000
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00022	.00064	.00007	.06767	.01509	.00070	.00463
SDev	.00000	.00011	.00018	.01900	.00623	.00014	.00187
%RSD	.00000	16.807	247.68	28.073	41.254	19.882	40.406
#1	.00022	.00057	.00021	.05424	.01069	.00060	.00596
#2	.00022	.00072	-.00006	.08111	.01950	.00080	.00331
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00091	.00078	.00105	.00096	.00062	-.00075	-.00029
SDev	.00166	.00065	.00031	.00043	.00278	.00108	.00165
%RSD	181.21	83.608	29.777	44.341	445.37	143.97	563.35
#1	-.00209	.00124	.00127	.00126	-.00134	-.00151	-.00146
#2	.00026	.00032	.00083	.00066	.00259	.00001	.00087
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00099	.00065	.00076	.00217	.00087	.00066	
SDev	.00081	.00311	.00235	.00220	.00035	.00007	
%RSD	81.983	481.16	308.36	101.12	40.776	10.634	
#1	.00042	-.00155	-.00090	.00373	.00062	.00071	
#2	.00156	.00285	.00242	.00062	.00112	.00061	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 05:11:45 PM

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20925	--	--	--	--	--	--
SDev	50.13415	--	--	--	--	--	--
%RSD	.2395897	--	--	--	--	--	--
#1	20960	--	--	--	--	--	--
#2	20890	--	--	--	--	--	--

6721283

Analysis Report

09/24/00 05:15:54 PM

page 1

Method: METTRA Sample Name: DKTQ6B

Operator: RJG

Run Time: 09/24/00 17:11:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00071	.01765	-.00001	.00044	.00033	.02116	-.00003
SDev	.00014	.00520	.00095	.00000	.00014	.00022	.00006
%RSD	20.243	29.486	18242.	.02679	43.438	1.0524	191.99
#1	.00061	.02132	-.00068	.00043	.00023	.02132	-.00007
#2	.00081	.01397	.00067	.00044	.00043	.02100	.00001
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00078	.00116	.00039	.04600	.00956	.00097	.00144
SDev	.00006	.00024	.00009	.00436	.00035	.00001	.00104
%RSD	7.6298	20.861	23.824	9.4826	3.6674	1.1445	72.225
#1	-.00082	.00099	.00033	.04292	.00980	.00098	.00217
#2	-.00074	.00133	.00046	.04909	.00931	.00097	.00070
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00107	.00404	.00052	.00169	-.00394	.00157	-.00027
SDev	.00035	.00026	.00066	.00035	.00348	.00059	.00155
%RSD	32.922	6.4945	126.95	20.833	88.460	37.770	585.16
#1	-.00132	.00386	.00099	.00194	-.00147	.00199	.00083
#2	-.00082	.00423	.00005	.00144	-.00640	.00115	-.00136
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00172	.00383	.00198	.00103	.00107	.00208	
SDev	.00033	.00240	.00149	.00354	.00202	.00002	
%RSD	19.128	62.797	75.453	345.07	188.73	.97143	
#1	-.00149	.00213	.00092	.00353	-.00036	.00209	
#2	-.00195	.00552	.00303	-.00148	.00250	.00206	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

09/24/00 05:15:54 PM

Analysis Report

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21252	--	--	--	--	--	--
SDev	187.7369	--	--	--	--	--	--
%RSD	.8833760	--	--	--	--	--	--
#1	21119	--	--	--	--	--	--
#2	21385	--	--	--	--	--	--

Method: METTRA Sample Name: DKTQ6C

Operator: RJG

Run Time: 09/24/00 17:15:57

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05349	2.0199	2.1244	2.1031	.05134	L.05389	.05209
SDev	.00028	.0064	.0099	.0080	.00007	.00138	.00027
%RSD	.52000	.31748	.46578	.37862	.12832	2.5599	.51153
#1	.05368	2.0245	2.1314	2.1087	.05138	L.05291	.05228
#2	.05329	2.0154	2.1174	2.0975	.05129	L.05487	.05190
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.52882	.21351	.26173	1.0903	L.00743	.51801	L.00011
SDev	.00339	.00100	.00064	.0102	.00122	.00204	.00027
%RSD	.64058	.46651	.24496	.93337	16.463	.39460	243.73
#1	.53122	.21422	.26218	1.0975	L.00830	.51946	L.00030
#2	.52643	.21281	.26128	1.0831	L.00657	.51657	L-.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.53007	.53248	.52839	.52975	-.00208	.00165	L.00041
SDev	.00435	.00385	.00039	.00154	.00302	.00103	.00032
%RSD	.82036	.72246	.07373	.29087	145.05	62.627	77.335
#1	.53315	.53520	.52866	.53084	-.00422	.00238	L.00019
#2	.52700	.52976	.52811	.52866	.00005	.00092	L.00063
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.0962	2.0819	2.0867	2.1346	.51781	.52891	
SDev	.0084	.0031	.0048	.0014	.00279	.00216	
%RSD	.40049	.14735	.23203	.06389	.53880	.40882	
#1	2.1022	2.0840	2.0901	2.1356	.51979	.53044	
#2	2.0903	2.0797	2.0832	2.1337	.51584	.52738	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

Analysis Report

09/24/00 05:20:03 PM

6721286
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20631	--	--	--	--	--	--
SDev	117.9805	--	--	--	--	--	--
%RSD	.5718651	--	--	--	--	--	--
#1	20547	--	--	--	--	--	--
#2	20714	--	--	--	--	--	--

6721287

Analysis Report

09/24/00 05:24:11 PM

page 1

Method: METTRA Sample Name: DKT2H

Operator: RJG

Run Time: 09/24/00 17:20:06

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00095	54.190	.22261	.51571	.00616	7.0980	.00630
SDev	.00021	.011	.00122	.00001	.00003	.0003	.00001
%RSD	22.103	.02081	.54970	.00189	.48059	.00441	.09414
#1	.00109	54.198	.22174	.51572	.00614	7.0977	.00630
#2	.00080	54.182	.22347	.51570	.00618	7.0982	.00629
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07359	.19026	.19767	378.76	16.477	1.1919	.00695
SDev	.00002	.00026	.00046	.38	.002	.0006	.00042
%RSD	.02920	.13679	.23215	.09957	.01444	.05395	5.9699
#1	.07361	.19008	.19799	378.49	16.479	1.1914	.00666
#2	.07357	.19045	.19734	379.02	16.475	1.1923	.00725
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12772	.17309	.16394	.16699	.00734	.00601	.00646
SDev	.00002	.00078	.00038	.00052	.00051	.00059	.00022
%RSD	.01772	.45021	.23336	.30822	6.8720	9.7738	3.4692
#1	.12774	.17254	.16367	.16662	.00770	.00560	.00630
#2	.12771	.17364	.16421	.16735	.00699	.00643	.00661
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.02044	.00801	.01215	.02074	.24259	.49204	
SDev	.00242	.00059	.00041	.00095	.00146	.00038	
%RSD	11.819	7.3619	3.3847	4.5716	.60140	.07624	
#1	.02215	.00759	.01244	.02141	.24362	.49178	
#2	.01874	.00843	.01186	.02007	.24156	.49231	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 05:24:11 PM

6721288
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21341	--	--	--	--	--	--
SDev	13.57590	--	--	--	--	--	--
%RSD	.0636130	--	--	--	--	--	--
#1	21332	--	--	--	--	--	--
#2	21351	--	--	--	--	--	--

Method: METTRA Sample Name: DKT2HP5 Operator: RJG
 Run Time: 09/24/00 17:24:15
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	10.597	.04651	.10397	.00146	1.4581	.00101
SDev	.00002	.003	.00207	.00002	.00004	.0013	.00004
%RSD	4.0164	.03092	4.4572	.02090	2.8910	.09125	4.0964

#1	.00041	10.599	.04798	.10399	.00143	1.4590	.00098
#2	.00039	10.594	.04505	.10396	.00149	1.4571	.00104

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01365	.03865	.03895	77.418	3.3680	.24106	.00053
SDev	.00011	.00011	.00032	.107	.0078	.00010	.00008
%RSD	.82869	.29304	.80995	.13839	.23148	.03950	15.600

#1	.01357	.03873	.03873	77.494	3.3735	.24113	.00058
#2	.01373	.03857	.03918	77.342	3.3625	.24099	.00047

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02476	.03722	.03326	.03458	.00119	.00138	.00132
SDev	.00165	.00250	.00127	.00001	.00186	.00211	.00079
%RSD	6.6675	6.7150	3.8128	.03925	156.30	153.06	59.997

#1	.02593	.03899	.03237	.03457	-.00012	.00287	.00187
#2	.02359	.03546	.03416	.03459	.00250	-.00011	.00076

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00446	.00263	.00324	.00436	.04905	.09998
SDev	.00248	.00038	.00108	.00065	.00035	.00005
%RSD	55.727	14.601	33.445	15.001	.72015	.05073

#1	.00270	.00236	.00247	.00482	.04930	.10002
#2	.00622	.00290	.00401	.00390	.04880	.09995

Analysis Report

09/24/00 05:28:20 PM

6721290
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21397	--	--	--	--	--	--
SDev	20.15254	--	--	--	--	--	--
%RSD	.0941820	--	--	--	--	--	--
#1	21412	--	--	--	--	--	--
#2	21383	--	--	--	--	--	--

6721291

Analysis Report

09/24/00 05:32:28 PM

page 1

Method: METTRA Sample Name: DKT2HS

Operator: RJG

Run Time: 09/24/00 17:28:23

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04891	51.204	2.1601	2.3673	.05341	6.7598	.05332
SDev	.00022	.130	.0105	.0076	.00018	.0088	.00085
%RSD	.45503	.25478	.48689	.32056	.33657	.13035	1.5907
#1	.04907	51.111	2.1526	2.3620	.05328	6.7536	.05272
#2	.04875	51.296	2.1675	2.3727	.05353	6.7660	.05392
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.55374	.38096	.41868	339.11	15.707	1.6716	.00746
SDev	.00145	.00123	.00133	1.00	.045	.0036	.00038
%RSD	.26268	.32282	.31811	.29364	.28886	.21583	5.1330
#1	.55271	.38009	.41774	338.41	15.675	1.6690	.00719
#2	.55477	.38183	.41962	339.82	15.739	1.6741	.00773
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.61032	.65829	.64789	.65135	.00744	.00639	.00674
SDev	.00075	.00222	.00108	.00002	.00080	.00187	.00098
%RSD	.12271	.33733	.16658	.00301	10.718	29.239	14.547
#1	.60979	.65986	.64712	.65137	.00800	.00507	.00604
#2	.61085	.65672	.64865	.65134	.00688	.00771	.00743
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.9966	1.9578	1.9707	1.8295	.75641	.92451	
SDev	.0033	.0023	.0004	.0032	.00272	.00475	
%RSD	.16603	.11607	.02089	.17621	.35976	.51434	
#1	1.9990	1.9562	1.9704	1.8272	.75448	.92115	
#2	1.9943	1.9594	1.9710	1.8318	.75833	.92787	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 05:32:28 PM

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21130	--	--	--	--	--	--
SDev	101.1522	--	--	--	--	--	--
%RSD	.4787051	--	--	--	--	--	--
#1	21202	--	--	--	--	--	--
#2	21059	--	--	--	--	--	--

6721293

Analysis Report

09/24/00 05:36:37 PM

page 1

Method: METTRA Sample Name: DKT2HD

Operator: RJG

Run Time: 09/24/00 17:32:32

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04624	47.125	2.0259	2.1973	.05147	7.4387	.04974
SDev	.00005	.157	.0020	.0054	.00001	.0156	.00036
%RSD	.09960	.33256	.09957	.24500	.02251	.20998	.71459

#1	.04621	47.014	2.0244	2.1935	.05147	7.4277	.04949
#2	.04627	47.236	2.0273	2.2011	.05148	7.4498	.05000

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51365	.34217	.40184	262.34	14.957	1.3838	.00620
SDev	.00019	.00098	.00114	.51	.046	.0031	.00061
%RSD	.03655	.28579	.28361	.19494	.30889	.22043	9.7894

#1	.51379	.34148	.40103	261.98	14.924	1.3816	.00577
#2	.51352	.34286	.40265	262.70	14.990	1.3859	.00663

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.56792	.59260	.58634	.58842	.00742	.00388	.00506
SDev	.00297	.00095	.00160	.00139	.00023	.00044	.00037
%RSD	.52355	.16071	.27327	.23552	3.0768	11.424	7.3470

#1	.56582	.59193	.58520	.58744	.00758	.00419	.00532
#2	.57002	.59328	.58747	.58940	.00726	.00357	.00479

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8537	1.8284	1.8368	1.7222	.64414	.85393
SDev	.0034	.0005	.0015	.0035	.00038	.00287
%RSD	.18551	.02935	.08183	.20266	.05905	.33620

#1	1.8512	1.8280	1.8357	1.7198	.64441	.85190
#2	1.8561	1.8287	1.8378	1.7247	.64387	.85596

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 05:36:37 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20643	--	--	--	--	--	--
SDev	226.8749	--	--	--	--	--	--
%RSD	1.099018	--	--	--	--	--	--
#1	20804	--	--	--	--	--	--
#2	20483	--	--	--	--	--	--

Method: METTRA Sample Name: DKT2K

Operator: RJG

Run Time: 09/24/00 17:36:40

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00144	117.36	.11656	1.1743	.00774	52.069	.00357
SDev	.00040	.30	.00018	.0054	.00001	.277	.00028
%RSD	27.937	.25497	.15065	.45966	.07709	.53237	7.8679
#1	-.00115	117.57	.11644	1.1781	.00774	52.265	.00377
#2	-.00172	117.14	.11669	1.1705	.00774	51.873	.00337
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04377	.16713	.10136	165.92	6.7563	.74506	.00652
SDev	.00082	.00074	.00009	.60	.0308	.00304	.00094
%RSD	1.8654	.44075	.09319	.36440	.45562	.40753	14.415
#1	.04319	.16765	.10129	166.35	6.7781	.74721	.00719
#2	.04435	.16661	.10143	165.49	6.7345	.74291	.00586
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16122	.12609	.12527	.12554	.00202	.00231	.00222
SDev	.00018	.00291	.00012	.00089	.00106	.00121	.00045
%RSD	.11001	2.3077	.09929	.70574	52.540	52.085	20.285
#1	.16109	.12815	.12518	.12617	.00278	.00146	.00190
#2	.16135	.12403	.12536	.12492	.00127	.00317	.00254
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00046	-.00172	-.00100	.01131	.20045	.46232	
SDev	.00197	.00160	.00172	.00487	.00085	.00078	
%RSD	423.52	92.690	172.89	43.115	.42608	.16931	
#1	.00185	-.00059	.00022	.00786	.20105	.46287	
#2	-.00093	-.00285	-.00221	.01475	.19984	.46176	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19177	--	--	--	--	--	--
SDev	10.60660	--	--	--	--	--	--
%RSD	.0553097	--	--	--	--	--	--
#1	19169	--	--	--	--	--	--
#2	19184	--	--	--	--	--	--

Method: METTRA Sample Name: DKT2L

Operator: RJG

Run Time: 09/24/00 17:40:49

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	227.92	.14261	.27152	.01003	37.800	.00405
SDev	.00010	1.31	.00036	.00160	.00010	.317	.00010
%RSD	91.792	.57480	.25003	.58872	1.0277	.83841	2.3459
#1	-.00018	228.85	.14286	.27265	.01010	38.024	.00398
#2	-.00004	227.00	.14235	.27039	.00995	37.576	.00412
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13950	.19727	.16448	216.56	7.2468	1.2422	.00790
SDev	.00036	.00096	.00104	1.06	.0599	.0082	.00084
%RSD	.25485	.48526	.62978	.48805	.82652	.65693	10.658
#1	.13975	.19795	.16521	217.31	7.2892	1.2480	.00850
#2	.13925	.19659	.16374	215.82	7.2044	1.2365	.00731
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.23122	.09382	.09614	.09537	-.00015	.00259	.00168
SDev	.00440	.00240	.00177	.00038	.00564	.00216	.00332
%RSD	1.9041	2.5623	1.8427	.39970	3735.6	83.233	197.66
#1	.23433	.09551	.09489	.09510	-.00414	.00107	-.00067
#2	.22811	.09212	.09739	.09564	.00384	.00412	.00402
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00666	.00350	.00455	.01057	.22786	.57558	
SDev	.00089	.00403	.00239	.00074	.00345	.00384	
%RSD	13.330	115.18	52.560	6.9786	1.5126	.66751	
#1	.00728	.00065	.00286	.01005	.23029	.57830	
#2	.00603	.00635	.00624	.01109	.22542	.57287	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 05:44:55 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18256	--	--	--	--	--	--
SDev	108.3282	--	--	--	--	--	--
%RSD	.5933841	--	--	--	--	--	--
#1	18179	--	--	--	--	--	--
#2	18333	--	--	--	--	--	--

Method: METTRA Sample Name: DKT2M

Operator: RJG

Run Time: 09/24/00 17:44:58

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00007	99.351	.03981	.59557	.01242	51.233	.00680
SDev	.00018	2.965	.00172	.01693	.00011	1.585	.00004
%RSD	246.99	2.9845	4.3158	2.8427	.86960	3.0931	.58701
#1	.00005	101.45	.04103	.60754	.01249	52.354	.00683
#2	-.00020	97.254	.03860	.58359	.01234	50.113	.00677
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11066	.21165	.14773	391.47	42.145	1.9053	-.00055
SDev	.00225	.00658	.00494	11.41	1.293	.0564	.00049
%RSD	2.0317	3.1073	3.3477	2.9136	3.0686	2.9581	89.177
#1	.11225	.21630	.15122	399.53	43.059	1.9452	-.00020
#2	.10907	.20700	.14423	383.40	41.230	1.8655	-.00090
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22916	.14168	.13448	.13687	.00392	.00484	.00453
SDev	.00995	.00288	.00446	.00394	.00026	.00154	.00112
%RSD	4.3409	2.0302	3.3191	2.8749	6.6900	31.908	24.638
#1	.23620	.14371	.13763	.13966	.00411	.00593	.00532
#2	.22213	.13964	.13132	.13409	.00374	.00375	.00374
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00653	-.00424	-.00065	.01227	.22993	.59147	
SDev	.00505	.00335	.00055	.00323	.00693	.01747	
%RSD	77.202	78.961	84.845	26.328	3.0124	2.9534	
#1	.01010	-.00660	-.00104	.00999	.23483	.60383	
#2	.00297	-.00187	-.00026	.01456	.22503	.57912	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

09/24/00 05:49:03 PM

page 2

Analysis Report

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19230	--	--	--	--	--	--
SDev	527.7129	--	--	--	--	--	--
%RSD	2.744224	--	--	--	--	--	--
#1	18857	--	--	--	--	--	--
#2	19603	--	--	--	--	--	--

6721301

Analysis Report

09/24/00 05:53:12 PM

page 1

Method: METTRA Sample Name: DKT2N

Operator: RJG

Run Time: 09/24/00 17:49:07

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	83.035	.07466	.81574	.00853	106.84	.00485
SDev	.00010	.614	.00105	.00754	.00005	1.05	.00028
%RSD	35.199	.73960	1.4119	.92417	.57373	.98299	5.8165
#1	.00036	83.469	.07540	.82107	.00850	107.58	.00505
#2	.00021	82.600	.07391	.81040	.00857	106.10	.00465
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15969	.14334	.27005	230.53	27.994	7.1247	.00342
SDev	.00071	.00151	.00298	2.00	.285	.0640	.00011
%RSD	.44499	1.0518	1.1033	.86893	1.0186	.89862	3.3214
#1	.16019	.14441	.27215	231.95	28.196	7.1700	.00334
#2	.15919	.14227	.26794	229.12	27.792	7.0795	.00350
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.26236	.27644	.27459	.27520	.00203	.00475	.00385
SDev	.00548	.00638	.00257	.00383	.00327	.00211	.00032
%RSD	2.0886	2.3065	.93477	1.3936	160.77	44.339	8.2762
#1	.26623	.28095	.27640	.27792	.00434	.00326	.00362
#2	.25848	.27194	.27277	.27249	-.00028	.00624	.00407
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00293	.00373	.00151	.01180	.19234	.55979	
SDev	.00035	.00573	.00370	.00255	.00202	.00467	
%RSD	12.105	153.85	245.34	21.600	1.0526	.83412	
#1	-.00268	-.00033	-.00111	.01360	.19377	.56309	
#2	-.00318	.00778	.00413	.01000	.19091	.55649	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 05:53:12 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19922	--	--	--	--	--	--
SDev	267.3568	--	--	--	--	--	--
%RSD	1.342048	--	--	--	--	--	--
#1	19732	--	--	--	--	--	--
#2	20111	--	--	--	--	--	--

6721303

Analysis Report

09/24/00 05:57:21 PM

page 1

Method: METTRA Sample Name: CCV3-3

Operator: RJG

Run Time: 09/24/00 17:53:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0143	24.008	.52180	1.9728	1.9852	49.937	.50097
SDev	.0003	.015	.00311	.0051	.0034	.096	.00062
%RSD	.03209	.06293	.59533	.25625	.16930	.19138	.12459
#1	1.0146	24.019	.52399	1.9764	1.9876	50.005	.50142
#2	1.0141	23.998	.51960	1.9692	1.9828	49.870	.50053
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9944	2.0028	1.9527	24.894	49.092	1.9626	2.0001
SDev	.0035	.0022	.0010	.062	.036	.0009	.0035
%RSD	.17764	.10982	.05364	.24972	.07435	.04702	.17274
#1	1.9969	2.0043	1.9534	24.938	49.117	1.9632	1.9977
#2	1.9919	2.0012	1.9519	24.850	49.066	1.9619	2.0026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9961	.51036	.51024	.51028	.50935	.51541	.51339
SDev	.0062	.00402	.00195	.00264	.00167	.00235	.00213
%RSD	.31291	.78662	.38303	.51745	.32854	.45650	.41423
#1	2.0005	.50752	.50886	.50841	.50817	.51374	.51189
#2	1.9917	.51320	.51162	.51215	.51053	.51707	.51489
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.53477	.52911	.53100	1.0298	1.9727	2.0149	
SDev	.00584	.00304	.00398	.0029	.0060	.0026	
%RSD	1.0919	.57534	.74859	.27672	.30379	.12668	
#1	.53064	.52696	.52818	1.0318	1.9769	2.0167	
#2	.53890	.53126	.53381	1.0278	1.9684	2.0131	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

Analysis Report

09/24/00 05:57:21 PM

6721304

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18724	--	--	--	--	--	--
SDev	42.17919	--	--	--	--	--	--
%RSD	.2252642	--	--	--	--	--	--
#1	18754	--	--	--	--	--	--
#2	18694	--	--	--	--	--	--

Method: METTRA Sample Name: CCB3

Operator: RJG

Run Time: 09/24/00 17:57:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00064	.05352	-.00154	.00063	.00018	.02485	.00034
SDev	.00046	.00079	.00125	.00000	.00001	.00468	.00003
%RSD	72.004	1.4767	81.697	.17095	3.6799	18.841	7.8433
#1	.00031	.05407	-.00065	.00063	.00017	.02154	.00036
#2	.00096	.05296	-.00242	.00063	.00018	.02817	.00032
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00038	.00091	.00033	.03208	.02186	.00111	.00507
SDev	.00005	.00028	.00028	.00066	.00605	.00018	.00091
%RSD	13.848	31.193	85.729	2.0684	27.656	16.024	17.984
#1	-.00042	.00071	.00013	.03161	.01759	.00098	.00571
#2	-.00035	.00111	.00053	.03255	.02614	.00123	.00442
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00183	.00483	-.00090	.00101	-.00198	.00289	.00126
SDev	.00047	.00591	.00265	.00020	.00400	.00378	.00119
%RSD	25.996	122.27	294.59	19.530	201.48	130.85	93.956
#1	-.00149	.00065	.00098	.00087	.00084	.00022	.00042
#2	-.00216	.00901	-.00278	.00115	-.00481	.00556	.00211
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00741	.00014	.00256	-.00074	.00045	.00107	
SDev	.00837	.00049	.00246	.00345	.00039	.00001	
%RSD	112.92	354.70	96.147	466.92	85.976	.84752	
#1	.00149	.00048	.00082	.00170	.00018	.00106	
#2	.01333	-.00021	.00430	-.00318	.00073	.00107	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 06:01:30 PM

6721306

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18778	--	--	--	--	--	--
SDev	124.9811	--	--	--	--	--	--
%RSD	.6655641	--	--	--	--	--	--
#1	18867	--	--	--	--	--	--
#2	18690	--	--	--	--	--	--

Method: METTRA Sample Name: DKXP3B Operator: RJG
Run Time: 09/24/00 18:01:34
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00050	.04257	.00018	.00045	-.00023	.05185	.00009
SDev	.00034	.00273	.00213	.00011	.00003	.00208	.00001
%RSD	68.057	6.4039	1160.8	23.444	12.326	4.0051	11.244

#1	.00026	.04450	-.00132	.00038	-.00021	.05038	.00009
#2	.00074	.04065	.00169	.00052	-.00025	.05332	.00008

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00045	.00177	.00360	.02249	.01026	.00077	.00151
SDev	.00008	.00032	.00003	.00633	.00267	.00005	.00049
%RSD	18.715	18.392	.82188	28.138	26.036	6.5079	32.604

#1	-.00051	.00154	.00358	.02697	.00837	.00073	.00116
#2	-.00039	.00200	.00362	.01802	.01214	.00080	.00185

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00070	.00147	.00088	.00108	-.00099	.00130	.00054
SDev	.00220	.00160	.00093	.00009	.00254	.00107	.00156
%RSD	312.81	108.80	105.76	8.1464	257.47	82.043	288.14

#1	-.00226	.00034	.00154	.00114	.00081	.00206	.00164
#2	.00085	.00261	.00022	.00102	-.00278	.00055	-.00056

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00228	.00117	.00002	-.00240	-.00009	.00881
SDev	.00058	.00291	.00175	.00220	.00038	.00066
%RSD	25.429	248.33	7464.7	91.447	416.13	7.4986

#1	-.00268	.00323	.00126	-.00396	-.00036	.00834
#2	-.00187	-.00089	-.00121	-.00085	.00018	.00928

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 06:05:39 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18686	--	--	--	--	--	--
SDev	66.85750	--	--	--	--	--	--
%RSD	.3578037	--	--	--	--	--	--
#1	18733	--	--	--	--	--	--
#2	18638	--	--	--	--	--	--

Method: METTRA Sample Name: DKXP3C

Operator: RJG

Run Time: 09/24/00 18:05:43

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05187	1.9488	2.1009	2.0343	.05033	L.40861	.05170
SDev	.00028	.0066	.0041	.0095	.00030	.00091	.00003
%RSD	.53988	.33791	.19703	.46868	.58573	.22353	.05951
#1	.05167	1.9535	2.1038	2.0410	.05054	L.40926	.05168
#2	.05207	1.9441	2.0980	2.0276	.05013	L.40797	.05172
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51817	.21077	.25098	1.0585	L.01463	.50366	L.00115
SDev	.00064	.00008	.00093	.0001	.00166	.00106	.00000
%RSD	.12307	.03673	.37169	.01150	11.345	.20998	.32016
#1	.51862	.21071	.25164	1.0584	L.01346	.50441	L.00115
#2	.51772	.21082	.25032	1.0585	L.01580	.50291	L.00115
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52269	.52167	.51768	.51901	-.00135	.00069	L.00001
SDev	.00140	.00548	.00690	.00643	.00119	.00023	.00024
%RSD	.26764	1.0511	1.3334	1.2389	88.084	33.529	2001.7
#1	.52368	.51780	.51280	.51446	-.00219	.00086	L-.00016
#2	.52170	.52555	.52256	.52356	-.00051	.00053	L.00018
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0991	2.0408	2.0602	2.0739	.50374	.55294	
SDev	.0095	.0214	.0175	.0003	.00200	.00175	
%RSD	.45191	1.0500	.84709	.01592	.39690	.31621	
#1	2.0924	2.0256	2.0479	2.0736	.50515	.55417	
#2	2.1058	2.0559	2.0725	2.0741	.50232	.55170	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

Analysis Report

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18783	--	--	--	--	--	--
SDev	25.63262	--	--	--	--	--	--
%RSD	.1364688	--	--	--	--	--	--
#1	18801	--	--	--	--	--	--
#2	18765	--	--	--	--	--	--

672i311

Analysis Report

09/24/00 06:13:58 PM

page 1

Method: METTRA Sample Name: DKRG8

Operator: RJG

Run Time: 09/24/00 18:09:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00063	10.781	.00924	.06774	.00104	37.746	.00288
SDev	.00026	.013	.00057	.00013	.00006	.055	.00008
%RSD	41.651	.12207	6.1491	.18821	6.2788	.14557	2.7860
#1	.00044	10.790	.00964	.06783	.00108	37.785	.00294
#2	.00081	10.772	.00883	.06765	.00099	37.707	.00282
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00915	.04382	.22990	28.248	22.731	.24372	.00263
SDev	.00011	.00002	.00037	.017	.022	.00003	.00067
%RSD	1.2298	.03433	.16176	.05903	.09782	.01364	25.467
#1	.00907	.04383	.22963	28.236	22.747	.24369	.00216
#2	.00922	.04381	.23016	28.260	22.716	.24374	.00311
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02807	.18107	.17943	.17998	.00106	.00482	.00357
SDev	.00010	.00136	.00066	.00089	.00032	.00251	.00178
%RSD	.34123	.74886	.36924	.49642	30.372	52.094	49.936
#1	.02800	.18011	.17897	.17935	.00084	.00304	.00231
#2	.02814	.18203	.17990	.18061	.00129	.00659	.00483
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00185	.00125	.00022	.00281	.04228	.56559	
SDev	.00324	.00070	.00155	.00046	.00049	.00035	
%RSD	174.89	56.224	711.65	16.346	1.1503	.06123	
#1	-.00414	.00075	-.00088	.00249	.04194	.56584	
#2	.00044	.00175	.00131	.00314	.04263	.56535	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 06:13:58 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19121	--	--	--	--	--	--
SDev	60.35267	--	--	--	--	--	--
%RSD	.3156434	--	--	--	--	--	--
#1	19163	--	--	--	--	--	--
#2	19078	--	--	--	--	--	--

6721313

Analysis Report

09/24/00 06:18:07 PM

page 1

Method: METTRA Sample Name: DKRG8P5 Operator: RJG
 Run Time: 09/24/00 18:14:02
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00025	2.1432	.00075	.01351	.00023	7.5508	.00055
SDev	.00007	.0041	.00065	.00005	.00001	.0016	.00007
%RSD	27.288	.18919	87.009	.38357	2.6016	.02080	12.303

#1	-.00020	2.1404	.00029	.01348	.00023	7.5497	.00060
#2	-.00030	2.1461	.00121	.01355	.00023	7.5519	.00050

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00117	.00846	.04577	5.6604	4.5058	.04869	.00127
SDev	.00016	.00008	.00019	.0047	.0034	.00002	.00029
%RSD	13.947	.89340	.42210	.08267	.07443	.04875	22.870

#1	.00105	.00840	.04591	5.6637	4.5034	.04870	.00148
#2	.00128	.00851	.04564	5.6571	4.5081	.04867	.00107

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00332	.03495	.03662	.03606	-.00209	.00206	.00068
SDev	.00102	.00032	.00135	.00079	.00274	.00029	.00072
%RSD	30.676	.93095	3.6858	2.1960	131.25	13.913	105.88

#1	.00404	.03518	.03566	.03550	-.00402	.00226	.00017
#2	.00260	.03472	.03757	.03662	-.00015	.00186	.00119

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00102	.00143	.00130	-.00151	.00793	.11212
SDev	.00119	.00314	.00170	.00061	.00003	.00030
%RSD	116.61	219.12	130.91	40.024	.37428	.26632

#1	.00187	-.00079	.00010	-.00109	.00795	.11233
#2	.00018	.00366	.00250	-.00194	.00791	.11190

Analysis Report

09/24/00 06:18:07 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19335	--	--	--	--	--	--
SDev	85.70217	--	--	--	--	--	--
%RSD	.4432443	--	--	--	--	--	--
#1	19275	--	--	--	--	--	--
#2	19396	--	--	--	--	--	--

6721315

Analysis Report

09/24/00 06:22:16 PM

page 1

Method: METTRA Sample Name: DKRG8S

Operator: RJG

Run Time: 09/24/00 18:18:10

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04987	7.2481	2.0184	1.9851	.05044	84.192	.05079
SDev	.00077	.0505	.0218	.0181	.00034	.810	.00042
%RSD	1.5359	.69662	1.0787	.91415	.68333	.96211	.81944
#1	.05042	7.2838	2.0338	1.9979	.05069	84.765	.05108
#2	.04933	7.2124	2.0030	1.9722	.05020	83.619	.05050
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49453	.22365	.50666	21.060	49.186	.72431	.00702
SDev	.00541	.00249	.00407	.200	.443	.00697	.00122
%RSD	1.0946	1.1125	.80300	.95139	.89993	.96210	17.467
#1	.49836	.22541	.50954	21.201	49.499	.72924	.00788
#2	.49070	.22189	.50379	20.918	48.873	.71938	.00615
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.51781	.62962	.62985	.62977	.00209	.00367	.00315
SDev	.00419	.00143	.00651	.00482	.00069	.00023	.00008
%RSD	.80896	.22707	1.0333	.76490	33.052	6.2014	2.5001
#1	.52078	.63063	.63445	.63318	.00160	.00383	.00309
#2	.51485	.62861	.62525	.62637	.00258	.00351	.00320
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.0165	1.9717	1.9866	2.0215	.50542	1.2029	
SDev	.0005	.0251	.0166	.0081	.00505	.0109	
%RSD	.02571	1.2743	.83489	.40099	.99979	.90913	
#1	2.0161	1.9894	1.9983	2.0272	.50899	1.2106	
#2	2.0169	1.9539	1.9749	2.0157	.50184	1.1951	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 06:22:16 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18677	--	--	--	--	--	--
SDev	157.7911	--	--	--	--	--	--
%RSD	.8448613	--	--	--	--	--	--
#1	18565	---	--	--	--	--	--
#2	18788	--	--	--	--	--	--

6721317

Analysis Report

09/24/00 06:26:25 PM

page 1

Method: METTRA Sample Name: DKRG8D

Operator: RJG

Run Time: 09/24/00 18:22:19

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05063	10.399	2.0631	1.9954	.05559	73.511	.05223
SDev	.00009	.007	.0037	.0031	.00002	.175	.00029
%RSD	.16889	.06310	.18041	.15703	.03882	.23823	.55485
#1	.05057	10.404	2.0605	1.9976	.05558	73.635	.05243
#2	.05070	10.395	2.0658	1.9932	.05561	73.388	.05202
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50449	.23698	.85087	32.404	43.396	.81275	.00613
SDev	.00016	.00075	.00115	.013	.049	.00167	.00054
%RSD	.03155	.31653	.13543	.04112	.11234	.20508	8.7717
#1	.50460	.23751	.85169	32.395	43.431	.81393	.00651
#2	.50438	.23645	.85006	32.414	43.362	.81157	.00575
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.61595	.86654	.86757	.86723	.00277	.00138	.00184
SDev	.00138	.01243	.00097	.00479	.00112	.00116	.00115
%RSD	.22364	1.4349	.11208	.55224	40.582	83.846	62.233
#1	.61692	.87533	.86826	.87061	.00356	.00220	.00266
#2	.61497	.85775	.86688	.86384	.00197	.00056	.00103
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.1077	2.0978	2.1011	2.0466	.51562	1.7336	
SDev	.0273	.0070	.0137	.0064	.00260	.0006	
%RSD	1.2960	.33184	.65392	.31197	.50340	.03576	
#1	2.1270	2.1027	2.1108	2.0421	.51745	1.7340	
#2	2.0884	2.0929	2.0914	2.0511	.51378	1.7332	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 06:26:25 PM

6721318

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18678	--	--	--	--	--	--
SDev	139.0887	--	--	--	--	--	--
%RSD	.7446820	--	--	--	--	--	--
#1	18579	--	--	--	--	--	--
#2	18776	--	--	--	--	--	--

6721319

Analysis Report

09/24/00 06:30:34 PM

page 1

Method: METTRA Sample Name: DKRGK

Operator: RJG

Run Time: 09/24/00 18:26:28

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00010	38.208	.02298	.20508	.00403	8.5781	.00227
SDev	.00001	.050	.00056	.00051	.00010	.0298	.00021
%RSD	8.1778	.12983	2.4402	.25004	2.4091	.34713	9.4063
#1	-.00011	38.243	.02337	.20544	.00409	8.5991	.00212
#2	-.00010	38.173	.02258	.20472	.00396	8.5570	.00242
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04792	.12419	.20290	101.53	17.459	1.3627	.00249
SDev	.00009	.00001	.00038	.14	.021	.0023	.00064
%RSD	.17990	.00744	.18593	.13520	.12282	.16629	25.574
#1	.04798	.12418	.20317	101.63	17.474	1.3643	.00204
#2	.04786	.12419	.20264	101.43	17.444	1.3611	.00294
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11155	.24197	.23887	.23990	.00356	.00387	.00377
SDev	.00012	.00167	.00117	.00133	.00048	.00177	.00134
%RSD	.10593	.69092	.48809	.55621	13.516	45.670	35.553
#1	.11146	.24079	.23804	.23896	.00390	.00513	.00472
#2	.11163	.24315	.23969	.24084	.00322	.00262	.00282
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00459	.00144	.00248	.01193	.13710	.68688	
SDev	.00117	.00177	.00157	.00264	.00219	.00274	
%RSD	25.559	123.54	63.315	22.087	1.5946	.39902	
#1	.00376	.00018	.00137	.01379	.13556	.68882	
#2	.00542	.00269	.00360	.01007	.13865	.68494	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 06:30:34 PM

6721320
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19787	--	--	--	--	--	--
SDev	9.298731	--	--	--	--	--	--
%RSD	.0469949	--	--	--	--	--	--
#1	19793	--	--	--	--	--	--
#2	19780	--	--	--	--	--	--

Method: METTRA Sample Name: DKRGN Operator: RJG
Run Time: 09/24/00 18:30:37
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00030	69.424	.03822	.42046	.00417	29.998	.00378
SDev	.00010	.018	.00075	.00060	.00010	.052	.00002
%RSD	32.563	.02616	1.9576	.14271	2.3907	.17283	.49646

#1	-.00023	69.437	.03769	.42088	.00424	30.035	.00377
#2	-.00037	69.411	.03875	.42003	.00410	29.962	.00379

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05936	.12863	.34780	139.92	29.929	2.1870	.00322
SDev	.00023	.00022	.00007	.01	.024	.0016	.00020
%RSD	.38415	.17250	.01970	.00392	.07996	.07182	6.1853

#1	.05952	.12879	.34785	139.92	29.946	2.1882	.00308
#2	.05920	.12847	.34775	139.92	29.912	2.1859	.00336

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10831	.63994	.63587	.63722	.00915	.00616	.00716
SDev	.00130	.00512	.00559	.00543	.00273	.00345	.00321
%RSD	1.2022	.79944	.87901	.85240	29.848	55.938	44.825

#1	.10923	.63632	.63191	.63338	.01109	.00859	.00942
#2	.10739	.64356	.63982	.64106	.00722	.00372	.00489

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00198	-.00395	-.00329	.01635	.21615	.70149
SDev	.00081	.00203	.00109	.00161	.00069	.00011
%RSD	40.788	51.531	33.004	9.8393	.31836	.01545

#1	-.00141	-.00538	-.00406	.01522	.21664	.70157
#2	-.00256	-.00251	-.00252	.01749	.21566	.70141

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 06:34:43 PM

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19687	--	--	--	--	--	--
SDev	69.47324	--	--	--	--	--	--
%RSD	.3528974	--	--	--	--	--	--
#1	19736	--	--	--	--	--	--
#2	19637	--	--	--	--	--	--

Method: METTRA Sample Name: DKRGP Operator: RJG
Run Time: 09/24/00 18:34:46
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00068	51.625	.03322	.39864	.00395	H807.18	.00560
SDev	.00032	.143	.00007	.00010	.00003	1.33	.00045
%RSD	47.250	.27742	.20988	.02620	.70690	.16530	8.0818
#1	.00045	51.524	.03327	.39872	.00397	H806.23	.00592
#2	.00091	51.726	.03317	.39857	.00393	H808.12	.00528
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07080	.11524	.54873	95.052	540.88	2.2581	.00348
SDev	.00010	.00047	.00012	.314	1.31	.0070	.00076
%RSD	.13783	.40843	.02244	.33016	.24295	.31141	21.829
#1	.07073	.11491	.54865	94.830	539.95	2.2531	.00294
#2	.07087	.11558	.54882	95.274	541.81	2.2631	.00402
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07741	1.1204	1.1202	1.1202	.01125	.00891	.00969
SDev	.00042	.0176	.0152	.0160	.00250	.00099	.00017
%RSD	.54824	1.5688	1.3581	1.4282	22.262	11.123	1.7880
#1	.07771	1.1080	1.1094	1.1089	.00948	.00961	.00957
#2	.07711	1.1329	1.1309	1.1316	.01302	.00821	.00981
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00904	-.00529	-.00052	.01063	.17024	1.1127	
SDev	.00224	.00649	.00359	.00381	.00062	.0026	
%RSD	24.760	122.67	687.84	35.847	.36640	.23700	
#1	.00746	-.00070	.00201	.00793	.16980	1.1109	
#2	.01062	-.00989	-.00306	.01332	.17069	1.1146	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 06:38:52 PM

6721324
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18658	--	--	--	--	--	--
SDev	35.10813	--	--	--	--	--	--
%RSD	.1881628	--	--	--	--	--	--
#1	18634	--	--	--	--	--	--
#2	18683	--	--	--	--	--	--

6721325

Analysis Report

09/24/00 06:43:01 PM

page 1

Method: METTRA Sample Name: DKRGPP5

Operator: RJG

Run Time: 09/24/00 18:38:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00030	10.594	.00698	.08578	.00061	184.53	.00113
SDev	.00065	.034	.00040	.00021	.00001	.51	.00015
%RSD	212.11	.31840	5.7659	.25116	1.6822	.27581	12.860
#1	-.00015	10.618	.00670	.08593	.00061	184.89	.00123
#2	.00076	10.570	.00727	.08563	.00062	184.17	.00103
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01457	.02599	.11378	20.980	112.38	.48919	.00081
SDev	.00002	.00003	.00017	.060	.25	.00074	.00105
%RSD	.14453	.10413	.15129	.28751	.22016	.15088	130.62
#1	.01455	.02601	.11390	21.023	112.55	.48972	.00155
#2	.01458	.02597	.11366	20.937	112.20	.48867	.00006
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01572	.24547	.24610	.24589	.00041	.00254	.00183
SDev	.00005	.00098	.00006	.00028	.00021	.00289	.00186
%RSD	.28622	.39900	.02637	.11503	50.804	113.47	101.32
#1	.01575	.24477	.24615	.24569	.00026	.00459	.00315
#2	.01569	.24616	.24606	.24609	.00055	.00050	.00052
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00351	.00074	.00166	-.00005	.04034	.23610	
SDev	.00122	.00417	.00318	.00415	.00047	.00106	
%RSD	34.804	562.33	191.71	8511.6	1.1621	.44796	
#1	.00264	-.00221	-.00059	-.00298	.04000	.23685	
#2	.00437	.00369	.00391	.00289	.04067	.23535	

Analysis Report

09/24/00 06:43:01 PM

6721326
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18859	--	--	--	--	--	--
SDev	47.23529	--	--	--	--	--	--
%RSD	.2504714	--	--	--	--	--	--
#1	18825	--	--	--	--	--	--
#2	18892	--	--	--	--	--	--

6721327

Analysis Report

09/24/00 06:47:10 PM

page 1

Method: METTRA Sample Name: CCV3-4

Operator: RJG

Run Time: 09/24/00 18:43:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0294	24.355	.53366	1.9989	2.0277	51.001	.51317
SDev	.0002	.034	.00507	.0012	.0026	.053	.00028
%RSD	.01947	.14009	.95021	.05935	.12729	.10423	.05383
#1	1.0295	24.330	.53724	1.9998	2.0295	51.039	.51337
#2	1.0292	24.379	.53007	1.9981	2.0258	50.964	.51298
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0363	2.0426	1.9824	25.347	50.090	2.0054	2.0408
SDev	.0001	.0015	.0038	.020	.017	.0008	.0053
%RSD	.00490	.07284	.19077	.07878	.03299	.03780	.25982
#1	2.0364	2.0437	1.9851	25.333	50.102	2.0060	2.0370
#2	2.0362	2.0416	1.9797	25.361	50.079	2.0049	2.0445
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0389	.51988	.52174	.52112	.52196	.52318	.52277
SDev	.0031	.00149	.00115	.00027	.00257	.00434	.00204
%RSD	.14959	.28586	.21981	.05182	.49311	.83042	.39038
#1	2.0410	.52093	.52092	.52093	.52378	.52011	.52133
#2	2.0367	.51883	.52255	.52131	.52014	.52625	.52422
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.54471	.54006	.54161	1.0530	2.0061	2.0510	
SDev	.00509	.00037	.00145	.0013	.0052	.0026	
%RSD	.93386	.06900	.26687	.12212	.25905	.12586	
#1	.54111	.54032	.54059	1.0521	2.0098	2.0528	
#2	.54831	.53980	.54263	1.0539	2.0025	2.0491	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

Analysis Report

09/24/00 06:47:10 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19021	--	--	--	--	--	--
SDev	29.69848	--	--	--	--	--	--
%RSD	.1561369	--	--	--	--	--	--
#1	19000	--	--	--	--	--	--
#2	19042	--	--	--	--	--	--

Method: METTRA Sample Name: CCB4

Operator: RJG

Run Time: 09/24/00 18:47:14

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00140	.04561	.00056	.00060	.00042	.04258	.00036
SDev	.00060	.00094	.00068	.00022	.00007	.01057	.00015
%RSD	42.671	2.0683	122.48	35.947	16.234	24.833	40.640

#1	.00098	.04628	.00007	.00045	.00037	.03510	.00025
#2	.00183	.04494	.00104	.00075	.00047	.05005	.00046

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00009	.00107	.00039	.01686	.03920	.00079	.00456
SDev	.00033	.00033	.00023	.00188	.01135	.00024	.00118
%RSD	364.11	30.316	60.999	11.142	28.958	30.902	25.915

#1	-.00033	.00084	.00022	.01818	.03117	.00061	.00539
#2	.00014	.00130	.00055	.01553	.04722	.00096	.00372

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00113	.00150	.00120	.00130	-.00124	.00122	.00040
SDev	.00040	.00292	.00123	.00015	.00074	.00038	.00001
%RSD	35.631	194.29	102.55	11.327	60.173	31.330	1.8439

#1	-.00142	-.00056	.00208	.00120	-.00071	.00095	.00040
#2	-.00085	.00356	.00033	.00141	-.00176	.00149	.00041

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00426	.00127	.00227	.00136	.00042	.00085
SDev	.00159	.00235	.00103	.00321	.00038	.00007
%RSD	37.366	184.89	45.693	235.52	88.541	7.8280

#1	.00314	.00293	.00300	.00364	.00016	.00081
#2	.00539	-.00039	.00153	-.00091	.00069	.00090

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			.00500	.01000	.05000	.02000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 06:51:19 PM

6721330
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19313	--	--	--	--	--	--
SDev	85.10002	--	--	--	--	--	--
%RSD	.4406457	--	--	--	--	--	--
#1	19373	--	--	--	--	--	--
#2	19252	--	--	--	--	--	--

6721331

Analysis Report

09/24/00 06:55:28 PM

page 1

Method: METTRA Sample Name: DKRGPS Operator: RJG
 Run Time: 09/24/00 18:51:23
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05338	82.523	2.1960	2.4846	.05586	592.15	.05910
SDev	.00015	.085	.0096	.0027	.00017	1.60	.00049
%RSD	.28838	.10329	.43543	.10748	.31106	.26996	.82989
#1	.05349	82.462	2.2028	2.4865	.05599	593.28	.05945
#2	.05327	82.583	2.1892	2.4828	.05574	591.02	.05875
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54733	.41291	1.1727	122.02	363.76	4.3992	.00712
SDev	.00140	.00049	.0020	.01	.51	.0051	.00084
%RSD	.25520	.11786	.17298	.00909	.14145	.11566	11.755
#1	.54832	.41325	1.1741	122.02	364.12	4.4028	.00772
#2	.54634	.41256	1.1712	122.03	363.39	4.3956	.00653
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.59067	1.9565	1.9578	1.9573	.01914	.01297	.01502
SDev	.00018	.0173	.0078	.0006	.00304	.00162	.00007
%RSD	.03087	.88432	.39779	.02897	15.886	12.484	.44989
#1	.59080	1.9687	1.9523	1.9577	.01699	.01411	.01507
#2	.59055	1.9443	1.9633	1.9569	.02129	.01182	.01498
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1494	2.1007	2.1169	2.1069	.71120	4.1996
SDev	.0201	.0123	.0015	.0088	.00558	.0118
%RSD	.93306	.58452	.07140	.41594	.78452	.28191
#1	2.1636	2.0920	2.1158	2.1007	.71514	4.2080
#2	2.1352	2.1093	2.1180	2.1131	.70725	4.1912
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 06:55:28 PM

6721332
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17851	--	--	--	--	--	--
SDev	68.16399	--	--	--	--	--	--
%RSD	.3818411	--	--	--	--	--	--
#1	17803	--	--	--	--	--	--
#2	17900	--	--	--	--	--	--

Method: METTRA Sample Name: DKRGPD Operator: RJG
Run Time: 09/24/00 18:55:32
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04918	69.592	2.0290	2.4205	.06560	87.504	.05313
SDev	.00002	.175	.0043	.0097	.00027	.401	.00022
%RSD	.03730	.25209	.20990	.39902	.41713	.45844	.42435

#1	.04916	69.716	2.0320	2.4274	.06579	87.788	.05329
#2	.04919	69.468	2.0260	2.4137	.06540	87.220	.05297

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54095	.36441	1.0314	155.68	56.977	2.3521	.01388
SDev	.00082	.00123	.0046	.35	.174	.0071	.00038
%RSD	.15177	.33673	.44452	.22283	.30608	.30173	2.7060

#1	.54153	.36528	1.0346	155.93	57.100	2.3572	.01361
#2	.54037	.36354	1.0281	155.44	56.854	2.3471	.01414

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.59708	2.3797	2.3759	2.3771	.32126	.31944	.32005
SDev	.00239	.0468	.0064	.0113	.00418	.00842	.00422
%RSD	.40088	1.9675	.26996	.47593	1.3017	2.6348	1.3190

#1	.59877	2.4128	2.3713	2.3851	.31831	.32539	.32303
#2	.59538	2.3466	2.3804	2.3691	.32422	.31349	.31706

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9785	1.9421	1.9542	1.9643	.71388	2.7986
SDev	.0420	.0078	.0088	.0031	.00335	.0087
%RSD	2.1221	.40144	.44934	.15765	.46970	.31125

#1	2.0081	1.9366	1.9604	1.9622	.71625	2.8047
#2	1.9488	1.9476	1.9480	1.9665	.71151	2.7924

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19573	--	--	--	--	--	--
SDev	221.5012	--	--	--	--	--	--
%RSD	1.131689	--	--	--	--	--	--
#1	19416	--	--	--	--	--	--
#2	19729	--	--	--	--	--	--

Method: METTRA Sample Name: DKRH2

Operator: RJG

Run Time: 09/24/00 18:59:41

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	66.366	.04214	.44925	.00529	43.084	.00526
SDev	.00027	.402	.00257	.00254	.00006	.226	.00009
%RSD	145.69	.60622	6.1082	.56512	1.1992	.52522	1.6574

#1	-.00001	66.081	.04032	.44746	.00525	42.924	.00520
#2	.00038	66.650	.04396	.45105	.00534	43.244	.00532

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06810	.13126	.45830	148.13	39.885	1.7389	.00541
SDev	.00042	.00077	.00142	.97	.216	.0107	.00010
%RSD	.61642	.58432	.30879	.65612	.54127	.61778	1.7924

#1	.06780	.13072	.45730	147.44	39.732	1.7313	.00548
#2	.06840	.13181	.45930	148.82	40.037	1.7465	.00534

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11755	.81067	.80274	.80538	.01368	.00710	.00929
SDev	.00103	.00694	.00536	.00589	.00105	.00068	.00011
%RSD	.87724	.85572	.66808	.73097	7.6689	9.5979	1.1303

#1	.11682	.80577	.79895	.80122	.01293	.00758	.00936
#2	.11828	.81558	.80654	.80955	.01442	.00661	.00921

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V__	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00050	.00528	.00369	.01578	.21729	.98044
SDev	.00071	.00122	.00105	.00375	.00355	.00648
%RSD	142.54	23.118	28.521	23.740	1.6324	.66133

#1	-.00000	.00441	.00294	.01313	.21478	.97585
#2	.00101	.00614	.00443	.01843	.21980	.98502

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 07:03:46 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19507	--	--	--	--	--	--
SDev	13.93083	--	--	--	--	--	--
%RSD	.0714129	--	--	--	--	--	--
#1	19498	--	--	--	--	--	--
#2	19517	--	--	--	--	--	--

6721337

Analysis Report

09/24/00 07:07:56 PM

page 1

Method: METTRA Sample Name: DKWFL

Operator: RJG

Run Time: 09/24/00 19:03:50

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00011	44.317	.21933	.57722	.00483	12.369	.00301
SDev	.00047	.038	.00402	.00415	.00023	.105	.00024
%RSD	441.96	.08465	1.8343	.71803	4.6947	.84771	7.9884
#1	-.00023	44.344	.22217	.58015	.00499	12.443	.00284
#2	.00044	44.291	.21648	.57429	.00467	12.295	.00318
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03574	.11090	.17773	171.15	12.682	1.1600	.01148
SDev	.00045	.00005	.00064	.59	.070	.0051	.00081
%RSD	1.2487	.04504	.36242	.34606	.54824	.44316	7.0180
#1	.03542	.11094	.17819	171.57	12.731	1.1637	.01205
#2	.03605	.11087	.17728	170.73	12.633	1.1564	.01091
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13052	.26284	.25135	.25518	-.00031	.00491	.00317
SDev	.00428	.00255	.00594	.00311	.00543	.00199	.00048
%RSD	3.2781	.96987	2.3637	1.2203	1754.5	40.555	15.109
#1	.13355	.26464	.24715	.25297	-.00415	.00632	.00283
#2	.12750	.26103	.25555	.25738	.00353	.00350	.00351
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.03085	.03031	.03049	.00821	.14136	.35608	
SDev	.00279	.00215	.00050	.00150	.00209	.00227	
%RSD	9.0437	7.0875	1.6525	18.226	1.4771	.63724	
#1	.03282	.02879	.03014	.00715	.14284	.35768	
#2	.02888	.03183	.03085	.00927	.13989	.35447	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 07:07:56 PM

6721338
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19278	--	--	--	--	--	--
SDev	90.61601	--	--	--	--	--	--
%RSD	.4700433	--	--	--	--	--	--
#1	19214	--	--	--	--	--	--
#2	19342	--	--	--	--	--	--

Method: METTRA Sample Name: DKWFN Operator: RJG
Run Time: 09/24/00 19:08:00
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00124	92.338	.11368	.69478	.00959	95.204	.00996
SDev	.00051	.144	.00291	.00257	.00014	.554	.00034
%RSD	40.951	.15633	2.5588	.37007	1.4617	.58163	3.3828
#1	.00159	92.440	.11574	.69660	.00969	95.595	.00972
#2	.00088	92.236	.11162	.69297	.00949	94.812	.01020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11031	.21374	.69615	401.83	32.387	3.7502	.00558
SDev	.00117	.00083	.00201	1.05	.122	.0113	.00123
%RSD	1.0586	.38730	.28950	.26207	.37722	.30096	22.005
#1	.11113	.21433	.69757	402.57	32.474	3.7582	.00644
#2	.10948	.21316	.69472	401.09	32.301	3.7422	.00471
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22379	.33812	.32642	.33032	.00250	.00765	.00593
SDev	.00186	.00515	.00194	.00042	.00560	.00390	.00074
%RSD	.83233	1.5226	.59417	.12736	223.51	51.014	12.451
#1	.22511	.34176	.32505	.33061	-.00145	.01040	.00646
#2	.22247	.33448	.32779	.33002	.00646	.00489	.00541
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01794	-.00109	.00525	.01532	.23172	1.1408	
SDev	.00148	.00351	.00284	.00308	.00162	.0059	
%RSD	8.2328	321.61	54.050	20.123	.70066	.51959	
#1	.01690	-.00358	.00324	.01750	.23287	1.1450	
#2	.01899	.00139	.00725	.01314	.23057	1.1366	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19411	--	--	--	--	--	--
SDev	69.22603	--	--	--	--	--	--
%RSD	.3566293	--	--	--	--	--	--
#1	19362	--	--	--	--	--	--
#2	19460	--	--	--	--	--	--

6721341

Analysis Report

09/24/00 07:16:14 PM

page 1

Method: METTRA Sample Name: DKWMT

Operator: RJG

Run Time: 09/24/00 19:12:09

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00363	2.8255	.05956	.03216	.00072	64.551	.11204
SDev	.00031	.0218	.00267	.00040	.00005	.735	.00197
%RSD	8.4584	.77306	4.4759	1.2491	7.2346	1.1391	1.7603
#1	.00384	2.8409	.06144	.03245	.00069	65.071	.11064
#2	.00341	2.8101	.05767	.03188	.00076	64.031	.11343
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19652	.53234	.38282	H3802.1	2.8977	H36.137	-.01132
SDev	.00094	.00631	.00254	37.0	.0331	.343	.00072
%RSD	.48066	1.1854	.66475	.97194	1.1413	.94805	6.3435
#1	.19719	.53680	.38462	H3828.2	2.9211	H36.380	-.01082
#2	.19585	.52787	.38102	H3776.0	2.8743	H35.895	-.01183
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC High	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24637	.10816	.02409	.05209	.00616	.05620	.03954
SDev	.00649	.00874	.00257	.00120	.00526	.00438	.00117
%RSD	2.6331	8.0790	10.666	2.2959	85.311	7.7909	2.9570
#1	.25096	.11433	.02227	.05293	.00245	.05930	.04037
#2	.24178	.10198	.02591	.05124	.00988	.05311	.03871
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.04201	-.16133	L-.09362	.08122	.24867	H15.589	
SDev	.01397	.01356	.00439	.00214	.00596	.162	
%RSD	33.261	8.4078	4.6936	2.6287	2.3951	1.0362	
#1	.05190	-.17092	L-.09672	.07971	.25288	H15.703	
#2	.03213	-.15174	L-.09051	.08273	.24446	H15.474	
Errors	NOCHECK	NOCHECK	LC Low	LC Pass	LC Pass	LC High	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 07:16:14 PM

6721342
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16871	--	--	--	--	--	--
SDev	228.9963	--	--	--	--	--	--
%RSD	1.357351	--	--	--	--	--	--
#1	16709	--	--	--	--	--	--
#2	17033	--	--	--	--	--	--

Method: METTRA Sample Name: DKWMT/5 Operator: RJG
 Run Time: 09/24/00 19:16:18
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00060	.52796	.01158	.00592	.00021	12.752	.01575
SDev	.00026	.00122	.00224	.00005	.00002	.028	.00047
%RSD	43.574	.23149	19.295	.77072	10.095	.22293	2.9544
#1	.00078	.52883	.01000	.00589	.00023	12.772	.01542
#2	.00042	.52710	.01316	.00595	.00020	12.732	.01607
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03850	.10376	.06899	H749.13	.57243	6.1603	-.00222
SDev	.00039	.00047	.00025	.23	.00017	.0048	.00113
%RSD	1.0183	.45454	.35861	.03036	.03038	.07806	51.062
#1	.03878	.10409	.06916	H749.29	.57255	6.1637	-.00302
#2	.03822	.10342	.06881	H748.97	.57231	6.1569	-.00142
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04962	.01808	.00291	.00796	-.00084	.01227	.00791
SDev	.00103	.00051	.00059	.00022	.00144	.00104	.00022
%RSD	2.0866	2.8256	20.261	2.8105	171.53	8.4999	2.7550
#1	.05035	.01844	.00250	.00781	-.00185	.01301	.00806
#2	.04889	.01772	.00333	.00812	.00018	.01153	.00775
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00886	-.00785	-.00229	.01195	.06085	3.2722	
SDev	.00149	.00103	.00019	.00547	.00328	.0051	
%RSD	16.792	13.171	8.4984	45.728	5.3920	.15494	
#1	.00991	-.00858	-.00242	.00809	.06317	3.2758	
#2	.00781	-.00712	-.00215	.01582	.05853	3.2687	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 07:20:24 PM

6721344
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19008	--	--	--	--	--	--
SDev	15.87538	--	--	--	--	--	--
%RSD	.0835180	--	--	--	--	--	--
#1	19020	--	--	--	--	--	--
#2	18997	--	--	--	--	--	--

Method: METTRA Sample Name: DKWMT/10 Operator: RJG
 Run Time: 09/24/00 19:20:27
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00064	.28118	.00450	.00300	.00009	6.4485	.00729
SDev	.00003	.00376	.00004	.00003	.00007	.0495	.00003
%RSD	5.2962	1.3379	.81091	1.1452	73.241	.76754	.35749
#1	.00062	.28384	.00447	.00297	.00005	6.4835	.00727
#2	.00067	.27852	.00452	.00302	.00014	6.4135	.00731
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01878	.05179	.03393	377.34	.28586	3.0445	-.00089
SDev	.00027	.00072	.00054	2.33	.00473	.0208	.00094
%RSD	1.4265	1.3975	1.5785	.61773	1.6552	.68177	105.29
#1	.01897	.05230	.03431	378.99	.28920	3.0591	-.00023
#2	.01859	.05128	.03355	375.69	.28251	3.0298	-.00155
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02332	.01040	.00094	.00409	-.00277	.00512	.00250
SDev	.00021	.00058	.00072	.00068	.00192	.00171	.00178
%RSD	.90126	5.6014	77.372	16.581	69.419	33.460	71.492
#1	.02317	.00998	.00042	.00361	-.00141	.00634	.00376
#2	.02347	.01081	.00145	.00457	-.00413	.00391	.00123
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00728	.00845	.00806	.00739	.03226	1.6532	
SDev	.00035	.00519	.00335	.00059	.00226	.0131	
%RSD	4.7604	61.406	41.512	8.0096	6.9907	.79175	
#1	.00752	.00478	.00570	.00697	.03386	1.6624	
#2	.00703	.01212	.01043	.00781	.03067	1.6439	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 07:24:33 PM

6721346
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19312	--	--	--	--	--	--
SDev	191.9091	--	--	--	--	--	--
%RSD	.9937193	--	--	--	--	--	--
#1	19176	--	--	--	--	--	--
#2	19448	--	--	--	--	--	--

6721347

Analysis Report

09/24/00 07:28:42 PM

page 1

Method: METTRA Sample Name: DKWMX Operator: RJG
 Run Time: 09/24/00 19:24:37
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00235	5.3690	.06760	.29435	.00102	29.694	.12781
SDev	.00032	.0335	.00028	.00218	.00006	.261	.00045
%RSD	13.605	.62400	.40672	.74215	5.4164	.87952	.34904
#1	.00212	5.3926	.06779	.29589	.00106	29.878	.12813
#2	.00257	5.3453	.06740	.29280	.00099	29.509	.12750
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17004	3.2979	.87675	H3619.0	39.916	H18.477	.02208
SDev	.00059	.0229	.00548	20.5	.284	.119	.00001
%RSD	.34711	.69540	.62539	.56635	.71057	.64236	.04807
#1	.17046	3.3142	.88062	H3633.5	40.117	H18.561	.02208
#2	.16962	3.2817	.87287	H3604.5	39.715	H18.393	.02207
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC High	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.43435	1.2058	1.1266	1.1530	-.01056	.04248	.02482
SDev	.00401	.0124	.0013	.0050	.00480	.00044	.00130
%RSD	.92259	1.0272	.11771	.43444	45.448	1.0442	5.2486
#1	.43718	1.2146	1.1275	1.1565	-.01396	.04280	.02390
#2	.43152	1.1971	1.1256	1.1494	-.00717	.04217	.02574
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.05074	-.18750	L-.10817	.05799	.24845	H36.128	
SDev	.00663	.00781	.00300	.00935	.00987	.263	
%RSD	13.069	4.1630	2.7719	16.129	3.9718	.72692	
#1	.05543	-.19302	L-.11029	.06460	.25543	H36.314	
#2	.04605	-.18198	L-.10605	.05138	.24148	H35.943	
Errors	NOCHECK	NOCHECK	LC Low	LC Pass	LC Pass	LC High	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 07:28:42 PM

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17776	--	--	--	--	--	--
SDev	83.93302	--	--	--	--	--	--
%RSD	.4721665	--	--	--	--	--	--
#1	17717	--	--	--	--	--	--
#2	17836	--	--	--	--	--	--

Method: METTRA Sample Name: DKWMX/5 Operator: RJG
Run Time: 09/24/00 19:28:46
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	1.0110	.01251	.05682	.00032	6.1340	.01902
SDev	.00074	.0018	.00060	.00014	.00001	.0008	.00053
%RSD	90.918	.18066	4.7810	.25308	1.9984	.01323	2.8011
#1	.00134	1.0123	.01293	.05672	.00032	6.1346	.01864
#2	.00029	1.0097	.01208	.05693	.00033	6.1334	.01939
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03496	.66827	.16301	H742.56	8.2469	3.4781	.00571
SDev	.00065	.00124	.00051	1.86	.0173	.0088	.00083
%RSD	1.8604	.18512	.31413	.25014	.20939	.25431	14.531
#1	.03542	.66739	.16265	H741.24	8.2347	3.4719	.00513
#2	.03450	.66914	.16337	H743.87	8.2592	3.4844	.00630
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08914	.24362	.22822	.23335	-.00268	.00775	.00428
SDev	.00043	.00229	.00032	.00097	.00118	.00216	.00183
%RSD	.48385	.93910	.13998	.41781	44.249	27.803	42.799
#1	.08945	.24524	.22844	.23404	-.00184	.00928	.00558
#2	.08884	.24200	.22799	.23266	-.00351	.00623	.00299
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00952	-.00748	-.00182	.00788	.06356	H10.020	
SDev	.00115	.00119	.00041	.00267	.00035	.003	
%RSD	12.113	15.936	22.595	33.881	.55136	.02666	
#1	.01033	-.00832	-.00211	.00599	.06332	H10.018	
#2	.00870	-.00664	-.00153	.00976	.06381	H10.022	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC High	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 07:32:51 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19391	--	--	--	--	--	--
SDev	7.318279	--	--	--	--	--	--
%RSD	.0377403	--	--	--	--	--	--
#1	19386	--	--	--	--	--	--
#2	19396	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-5

Operator: RJG

Run Time: 09/24/00 19:32:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0432	24.776	.53530	2.0254	2.0501	51.592	.51848
SDev	.0016	.016	.00335	.0043	.0065	.181	.00034
%RSD	.15243	.06451	.62546	.21456	.31462	.35090	.06641
#1	1.0443	24.787	.53767	2.0285	2.0547	51.720	.51872
#2	1.0421	24.764	.53293	2.0223	2.0456	51.464	.51824
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0616	2.0708	2.0081	25.841	50.863	2.0249	2.0647
SDev	.0063	.0048	.0023	.022	.131	.0034	.0060
%RSD	.30368	.23213	.11609	.08436	.25673	.16678	.28934
#1	2.0661	2.0742	2.0097	25.857	50.955	2.0272	2.0605
#2	2.0572	2.0674	2.0064	25.826	50.770	2.0225	2.0689
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0630	.52277	.52411	.52366	.52375	.52519	.52471
SDev	.0154	.00046	.00238	.00144	.00206	.00120	.00012
%RSD	.74476	.08732	.45470	.27452	.39385	.22891	.02190
#1	2.0739	.52245	.52579	.52468	.52229	.52604	.52479
#2	2.0522	.52309	.52242	.52265	.52520	.52434	.52463
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.54851	.54130	.54370	1.0527	2.0256	2.0630	
SDev	.00337	.00382	.00143	.0018	.0032	.0046	
%RSD	.61470	.70634	.26253	.17150	.15902	.22361	
#1	.55089	.53859	.54269	1.0540	2.0279	2.0663	
#2	.54613	.54400	.54471	1.0515	2.0233	2.0598	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

Analysis Report

09/24/00 07:37:01 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18926	--	--	--	--	--	--
SDev	69.47324	--	--	--	--	--	--
%RSD	.3670759	--	--	--	--	--	--
#1	18877	--	--	--	--	--	--
#2	18975	--	--	--	--	--	--

6721353

Analysis Report

09/24/00 07:41:10 PM

page 1

Method: METTRA Sample Name: CCB5

Operator: RJG

Run Time: 09/24/00 19:37:04

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00070	.02859	.00047	.00053	.00036	.01199	.00035
SDev	.00020	.00030	.00027	.00006	.00003	.00367	.00028
%RSD	29.157	1.0596	57.300	10.995	8.4464	30.599	81.046
#1	.00055	.02838	.00028	.00049	.00034	.00940	.00015
#2	.00084	.02880	.00065	.00057	.00038	.01459	.00055
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	.00071	.00030	H.12525	.01701	.00115	.00462
SDev	.00014	.00039	.00051	.00262	.00349	.00007	.00094
%RSD	49.342	55.342	171.16	2.0883	20.510	6.2130	20.341
#1	.00018	.00043	-.00006	H.12710	.01454	.00110	.00529
#2	.00038	.00099	.00065	H.12340	.01947	.00120	.00396
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00095	.00100	.00206	.00171	-.00076	.00025	-.00009
SDev	.00172	.00113	.00001	.00037	.00183	.00136	.00152
%RSD	181.83	113.34	.67785	21.526	241.03	552.30	1703.6
#1	-.00216	.00180	.00205	.00196	-.00205	-.00071	-.00116
#2	.00027	.00020	.00207	.00145	.00053	.00121	.00098
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00300	.00125	-.00017	.00062	-.00007	.00305	
SDev	.00271	.00143	.00005	.00092	.00000	.00005	
%RSD	90.293	113.94	28.426	148.16	2.1388	1.6639	
#1	-.00109	.00024	-.00020	.00127	-.00007	.00301	
#2	-.00492	.00226	-.00013	-.00003	-.00007	.00309	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 07:41:10 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19321	--	--	--	--	--	--
SDev	36.80546	--	--	--	--	--	--
%RSD	.1904978	--	--	--	--	--	--
#1	19295	--	--	--	--	--	--
#2	19347	--	--	--	--	--	--

6721355

Analysis Report

09/24/00 07:45:19 PM

page 1

Analysis Report

09/24/00 07:45:19 PM

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19709	--	--	--	--	--	--
SDev	9.369165	--	--	--	--	--	--
%RSD	.0475386	--	--	--	--	--	--
#1	19702	--	--	--	--	--	--
#2	19715	--	--	--	--	--	--

Method: METTRA Sample Name: DKWND

Operator: RJG

Run Time: 09/24/00 19:45:23

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00904	14.750	.00505	.71467	-.00050	H898.28	.00445
SDev	.00006	.017	.00153	.00172	.00005	2.04	.00020
%RSD	.67992	.11597	30.264	.24025	10.466	.22713	4.3971
#1	.00900	14.738	.00613	.71589	-.00046	H899.72	.00431
#2	.00909	14.762	.00397	.71346	-.00053	H896.84	.00459
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4166	.29697	1.0213	88.409	57.892	.93676	.01015
SDev	.0013	.00059	.0004	.024	.086	.00117	.00016
%RSD	.09465	.19818	.03957	.02690	.14908	.12443	1.5584
#1	1.4176	.29655	1.0216	88.426	57.953	.93758	.01004
#2	1.4157	.29738	1.0210	88.393	57.831	.93593	.01027
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06218	.14324	.13558	.13813	-.03343	.00762	-.00605
SDev	.00098	.00023	.00147	.00090	.00285	.00323	.00310
%RSD	1.5692	.16107	1.0846	.65446	8.5208	42.318	51.234
#1	.06287	.14340	.13454	.13749	-.03545	.00534	-.00824
#2	.06149	.14308	.13662	.13877	-.03142	.00990	-.00386
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00954	-.00177	.00200	.00939	.03776	H56.548	
SDev	.00032	.00387	.00247	.00020	.00058	.265	
%RSD	3.3515	218.82	123.68	2.1520	1.5278	.46912	
#1	.00977	-.00450	.00025	.00925	.03817	H56.360	
#2	.00932	.00097	.00375	.00954	.03735	H56.735	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC High	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 07:49:29 PM

6721358
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17888	--	--	--	--	--	--
SDev	88.52921	--	--	--	--	--	--
%RSD	.4949015	--	--	--	--	--	--
#1	17951	--	--	--	--	--	--
#2	17826	--	--	--	--	--	--

6721359

Analysis Report

09/24/00 07:53:38 PM

page 1

Method: METTRA Sample Name: DKVJW

Operator: RJG

Run Time: 09/24/00 19:49:33

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00023	128.77	.09780	1.5264	.00460	134.93	.00802
SDev	.00017	.54	.00137	.0070	.00002	.78	.00015
%RSD	71.461	.42219	1.3999	.45820	.45822	.58174	1.9333
#1	-.00035	129.16	.09876	1.5313	.00461	135.49	.00813
#2	-.00012	128.39	.09683	1.5214	.00458	134.37	.00791
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08233	.18115	.24091	204.65	20.807	4.1501	.00654
SDev	.00052	.00085	.00127	.92	.110	.0212	.00096
%RSD	.63273	.46786	.52569	.44998	.53103	.50978	14.699
#1	.08270	.18175	.24181	205.30	20.885	4.1651	.00586
#2	.08196	.18055	.24002	204.00	20.728	4.1352	.00721
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14246	.51329	.52164	.51886	.01114	.00557	.00743
SDev	.00157	.00289	.00478	.00415	.00168	.00190	.00071
%RSD	1.0998	.56257	.91703	.80026	15.091	34.081	9.5123
#1	.14357	.51533	.52502	.52179	.00996	.00691	.00793
#2	.14135	.51125	.51825	.51592	.01233	.00423	.00693
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00704	.00128	.00320	.01430	.28457	1.2615	
SDev	.00548	.00106	.00253	.00016	.00124	.0119	
%RSD	77.887	83.073	79.271	1.1112	.43456	.94577	
#1	.00316	.00053	.00140	.01419	.28370	1.2699	
#2	.01091	.00203	.00499	.01441	.28545	1.2531	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 07:53:38 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19926	--	--	--	--	--	--
SDev	74.06943	--	--	--	--	--	--
%RSD	.3717146	--	--	--	--	--	--
#1	19874	--	--	--	--	--	--
#2	19979	--	--	--	--	--	--

Method: METTRA Sample Name: DKVK3

Operator: RJG

Run Time: 09/24/00 19:53:42

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	192.39	.08355	.84729	.00332	238.74	.00693
SDev	.00018	.71	.00165	.00100	.00004	.12	.00005
%RSD	26.375	.36918	1.9754	.11759	1.1139	.04933	.66917
#1	.00079	191.89	.08238	.84658	.00329	238.83	.00690
#2	.00054	192.90	.08472	.84799	.00335	238.66	.00697
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05669	.20064	.18019	171.46	17.903	3.0795	.00605
SDev	.00029	.00012	.00077	.27	.007	.0036	.00007
%RSD	.50791	.06167	.42597	.15462	.04047	.11758	1.1536
#1	.05690	.20055	.17964	171.28	17.898	3.0770	.00600
#2	.05649	.20073	.18073	171.65	17.908	3.0821	.00610
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11467	.31735	.31855	.31815	.00973	.00642	.00753
SDev	.00124	.00342	.00023	.00098	.00272	.00250	.00076
%RSD	1.0835	1.0779	.07286	.30938	27.936	38.932	10.141
#1	.11380	.31976	.31838	.31884	.00781	.00819	.00806
#2	.11555	.31493	.31871	.31745	.01165	.00466	.00699
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00123	.00047	-.00010	.00967	.30247	.76272	
SDev	.00190	.00163	.00172	.00250	.00098	.00141	
%RSD	154.29	349.33	1744.5	25.871	.32333	.18458	
#1	.00011	.00162	.00112	.01144	.30177	.76371	
#2	-.00257	-.00069	-.00131	.00790	.30316	.76172	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 07:57:47 PM

6721362

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18537	--	--	--	--	--	--
SDev	65.97362	--	--	--	--	--	--
%RSD	.3559042	--	--	--	--	--	--
#1	18490	--	--	--	--	--	--
#2	18584	--	--	--	--	--	--

Method: METTRA Sample Name: DKVK4 Operator: RJG
Run Time: 09/24/00 19:57:51
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00353	515.90	.13864	1.8400	.00391	271.00	.00753
SDev	.00044	.72	.00299	.0049	.00005	.90	.00003
%RSD	12.402	.14049	2.1545	.26417	1.1741	.33122	.35563
#1	.00322	516.41	.13653	1.8434	.00387	271.63	.00751
#2	.00383	515.39	.14075	1.8366	.00394	270.36	.00755
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06696	.41428	.20155	188.28	18.678	4.0394	.00916
SDev	.00029	.00164	.00013	.31	.062	.0092	.00018
%RSD	.43108	.39531	.06468	.16456	.32983	.22715	1.9691
#1	.06717	.41544	.20164	188.50	18.721	4.0458	.00929
#2	.06676	.41312	.20146	188.07	18.634	4.0329	.00903
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13033	.50213	.49659	.49844	.02613	.02659	.02644
SDev	.00101	.00513	.00149	.00270	.00713	.00407	.00034
%RSD	.77793	1.0211	.29937	.54149	27.277	15.314	1.2966
#1	.12961	.50576	.49764	.50035	.02109	.02947	.02668
#2	.13104	.49851	.49554	.49653	.03117	.02371	.02620
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00267	.00217	.00234	.01640	.52052	.78658	
SDev	.00099	.00289	.00160	.00467	.00452	.00290	
%RSD	37.092	132.96	68.337	28.481	.86792	.36835	
#1	.00197	.00421	.00347	.01309	.52371	.78863	
#2	.00337	.00013	.00121	.01970	.51733	.78453	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 08:01:57 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17893	--	--	--	--	--	--
SDev	133.7495	--	--	--	--	--	--
%RSD	.7474869	--	--	--	--	--	--
#1	17799	--	--	--	--	--	--
#2	17988	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-6

Operator: RJG

Run Time: 09/24/00 20:02:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0216	24.131	.52510	1.9767	2.0115	50.584	.50884
SDev	.0019	.075	.00266	.0087	.0045	.073	.00033
%RSD	.18150	.30967	.50709	.43828	.22590	.14404	.06533
#1	1.0203	24.078	.52322	1.9705	2.0083	50.532	.50860
#2	1.0229	24.184	.52698	1.9828	2.0147	50.635	.50907
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0202	2.0305	1.9611	25.111	49.859	1.9864	2.0243
SDev	.0070	.0071	.0048	.064	.105	.0066	.0151
%RSD	.34592	.35037	.24565	.25386	.21123	.33193	.74822
#1	2.0153	2.0255	1.9577	25.066	49.784	1.9817	2.0136
#2	2.0251	2.0355	1.9645	25.156	49.933	1.9911	2.0350
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0209	.51295	.51088	.51157	.50993	.51823	.51547
SDev	.0008	.00024	.00192	.00120	.00490	.00073	.00114
%RSD	.03787	.04748	.37494	.23390	.96037	.14110	.22174
#1	2.0214	.51312	.50953	.51072	.50646	.51875	.51466
#2	2.0204	.51278	.51224	.51242	.51339	.51772	.51628
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.53724	.52285	.52764	1.0295	1.9823	2.0213	
SDev	.00172	.00256	.00228	.0015	.0026	.0048	
%RSD	.32068	.48894	.43188	.14512	.13063	.23933	
#1	.53602	.52104	.52603	1.0306	1.9805	2.0179	
#2	.53846	.52466	.52925	1.0285	1.9842	2.0247	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

Analysis Report

09/24/00 08:06:06 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19220	--	--	--	--	--	--
SDev	24.99595	--	--	--	--	--	--
%RSD	.1300543	--	--	--	--	--	--
#1	19237	--	--	--	--	--	--
#2	19202	--	--	--	--	--	--

6721367

Analysis Report

09/24/00 08:10:16 PM

page 1

Method: METTRA Sample Name: CCB6

Operator: RJG

Run Time: 09/24/00 20:06:10

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00053	.04806	-.00239	.00056	.00032	.03217	.00034
SDev	.00032	.00165	.00083	.00005	.00004	.00136	.00006
%RSD	60.366	3.4366	34.603	9.2100	12.974	4.2278	17.177
#1	.00075	.04923	-.00298	.00060	.00035	.03313	.00038
#2	.00030	.04690	-.00181	.00053	.00029	.03120	.00030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00019	.00072	.00017	.03029	.01656	.00085	.00456
SDev	.00025	.00008	.00016	.00943	.00222	.00006	.00361
%RSD	131.75	10.551	94.606	31.144	13.381	6.8071	79.318
#1	-.00001	.00077	.00006	.03696	.01813	.00089	.00711
#2	-.00037	.00067	.00028	.02362	.01499	.00081	.00200
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00029	-.00072	.00234	.00132	.00201	.00087	.00125
SDev	.00000	.00170	.00274	.00126	.00062	.00258	.00151
%RSD	1.0110	235.28	116.87	95.323	31.070	297.51	121.18
#1	-.00029	-.00192	.00427	.00221	.00245	-.00096	.00018
#2	-.00029	.00048	.00041	.00043	.00157	.00269	.00231
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00026	.00278	.00177	.00068	-.00036	.00440	
SDev	.00052	.00263	.00158	.00094	.00000	.00038	
%RSD	202.84	94.355	89.100	137.71	.90679	8.7168	
#1	.00011	.00093	.00066	.00002	-.00036	.00467	
#2	-.00063	.00464	.00289	.00135	-.00037	.00412	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 08:10:16 PM

6721368

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19318	--	--	--	--	--	--
SDev	30.26472	--	--	--	--	--	--
%RSD	.1566655	--	--	--	--	--	--
#1	19339	--	--	--	--	--	--
#2	19297	--	--	--	--	--	--

6721369

Analysis Report

09/24/00 08:14:25 PM

page 1

Method: METTRA Sample Name: DKKK7B

Operator: RJG

Run Time: 09/24/00 20:10:20

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00017	.04854	.00174	.00012	-.00027	.02910	.00019
SDev	.00050	.00059	.00037	.00009	.00005	.00096	.00008
%RSD	290.33	1.2193	21.255	69.217	16.648	3.3034	42.767
#1	-.00053	.04896	.00148	.00019	-.00024	.02978	.00025
#2	.00018	.04813	.00200	.00006	-.00031	.02842	.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00086	.00010	.00078	.03160	.00485	.00055	.00120
SDev	.00028	.00002	.00071	.00206	.00228	.00001	.00084
%RSD	32.296	24.109	91.372	6.5077	46.933	.83059	70.008
#1	-.00106	.00011	.00028	.03014	.00645	.00055	.00179
#2	-.00066	.00008	.00128	.03305	.00324	.00055	.00061
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00140	.00212	.00093	.00133	-.00072	.00003	-.00022
SDev	.00121	.00096	.00002	.00034	.00049	.00151	.00085
%RSD	86.780	45.430	2.3008	25.274	67.583	4641.0	389.31
#1	-.00054	.00144	.00091	.00109	-.00106	.00110	.00038
#2	-.00226	.00280	.00094	.00156	-.00038	-.00104	-.00082
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.00163	.00217	.00199	-.00410	-.00009	.00332	
SDev	.00050	.00138	.00076	.00361	.00038	.00009	
%RSD	30.791	63.739	38.021	87.862	416.31	2.7257	
#1	.00198	.00119	.00146	-.00665	-.00036	.00325	
#2	.00127	.00315	.00253	-.00155	.00018	.00338	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 08:14:25 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18909	--	--	--	--	--	--
SDev	103.0953	--	--	--	--	--	--
%RSD	.5452270	--	--	--	--	--	--
#1	18982	--	--	--	--	--	--
#2	18836	--	--	--	--	--	--

6721371

Analysis Report

09/24/00 08:18:35 PM

page 1

Method: METTRA Sample Name: DKKK7C

Operator: RJG

Run Time: 09/24/00 20:14:29

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05042	1.8991	2.0326	1.9454	.04875	L.02261	.04990
SDev	.00054	.0001	.0008	.0002	.00014	.00023	.00009
%RSD	1.0644	.00446	.03738	.00806	.28716	1.0282	.17270
#1	.05004	1.8991	2.0331	1.9455	.04885	L.02245	.04984
#2	.05080	1.8992	2.0321	1.9453	.04865	L.02278	.04996
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.06000	2.4000	2.4000	2.4000	.06000	60.000	.06000
Low	.04000	1.6000	1.6000	1.6000	.04000	40.000	.04000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50055	.20132	.24197	1.0174	L.00455	.48508	L.00084
SDev	.00162	.00052	.00066	.0087	.00251	.00101	.00027
%RSD	.32307	.25726	.27306	.85541	55.245	.20756	32.105
#1	.49941	.20095	.24150	1.0112	L.00277	.48437	L.00103
#2	.50169	.20169	.24244	1.0235	L.00633	.48580	L.00065
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	.60000	.24000	.30000	1.2000	60.000	.60000	1.2000
Low	.40000	.16000	.20000	.80000	40.000	.40000	.80000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50234	.50222	.50328	.50293	-.00056	.00182	L.00103
SDev	.00378	.00495	.00685	.00622	.00247	.00075	.00032
%RSD	.75193	.98486	1.3612	1.2360	438.12	40.946	31.578
#1	.50501	.49872	.49844	.49853	.00118	.00130	L.00126
#2	.49967	.50572	.50813	.50733	-.00231	.00235	L.00080
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low
High	.60000			.60000			.60000
Low	.40000			.40000			.40000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0606	2.0208	2.0340	1.9940	.47972	.50023	
SDev	.0086	.0160	.0135	.0059	.00106	.00035	
%RSD	.41946	.78951	.66468	.29387	.22012	.06996	
#1	2.0545	2.0095	2.0245	1.9898	.47898	.50047	
#2	2.0667	2.0321	2.0436	1.9981	.48047	.49998	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			2.4000	2.4000	.60000	.60000	
Low			1.6000	1.6000	.40000	.40000	

Analysis Report

09/24/00 08:18:35 PM

6721372
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19669	--	--	--	--	--	--
SDev	43.16942	--	--	--	--	--	--
%RSD	.2194764	--	--	--	--	--	--
#1	19700	--	--	--	--	--	--
#2	19639	--	--	--	--	--	--

6721373

Analysis Report

09/24/00 08:22:45 PM

page 1

Method: METTRA Sample Name: DK0T1

Operator: RJG

Run Time: 09/24/00 20:18:39

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	8.5122	.01525	.19851	.00008	94.554	.00061
SDev	.00016	.0365	.00072	.00020	.00007	.088	.00010
%RSD	42.977	.42873	4.7176	.10027	89.150	.09313	16.880
#1	.00026	8.4864	.01576	.19837	.00013	94.617	.00054
#2	.00048	8.5380	.01474	.19865	.00003	94.492	.00069
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01347	.06051	.02353	25.473	14.157	.36174	.04003
SDev	.00042	.00060	.00015	.032	.015	.00040	.00046
%RSD	3.0945	1.0002	.62708	.12468	.10524	.11099	1.1391
#1	.01318	.06008	.02343	25.450	14.146	.36145	.04035
#2	.01377	.06094	.02364	25.495	14.167	.36202	.03970
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02719	.01513	.01440	.01465	-.00054	.00388	.00241
SDev	.00072	.00192	.00057	.00026	.00216	.00207	.00210
%RSD	2.6312	12.663	3.9882	1.7389	399.82	53.420	87.232
#1	.02668	.01648	.01400	.01483	.00099	.00535	.00389
#2	.02769	.01377	.01481	.01447	-.00207	.00241	.00092
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00123	.00392	.00303	.00350	.03516	.04611	
SDev	.00121	.00033	.00062	.00307	.00016	.00004	
%RSD	98.286	8.3561	20.542	87.841	.46897	.08746	
#1	.00038	.00369	.00259	.00567	.03528	.04614	
#2	.00209	.00415	.00347	.00133	.03505	.04608	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 08:22:45 PM

6721374
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18464	--	--	--	--	--	--
SDev	13.32869	--	--	--	--	--	--
%RSD	.0721862	--	--	--	--	--	--
#1	18474	--	--	--	--	--	--
#2	18455	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T2

Operator: RJG

Run Time: 09/24/00 20:22:48

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	25.099	.00833	.37188	.00157	114.98	.00105
SDev	.00022	.072	.00034	.00170	.00007	.70	.00007
%RSD	46.612	.28669	4.0506	.45681	4.2124	.61064	6.6963
#1	.00062	25.150	.00809	.37308	.00152	115.47	.00110
#2	.00031	25.048	.00857	.37068	.00161	114.48	.00100
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02924	.11852	.06722	52.308	62.744	1.4487	.00227
SDev	.00026	.00038	.00058	.186	.334	.0065	.00026
%RSD	.89245	.32193	.86627	.35539	.53253	.45202	11.665
#1	.02943	.11879	.06763	52.439	62.980	1.4534	.00209
#2	.02906	.11825	.06681	52.176	62.508	1.4441	.00246
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05440	.03001	.03108	.03072	.00294	.00222	.00246
SDev	.00012	.00080	.00085	.00030	.00312	.00023	.00088
%RSD	.21864	2.6606	2.7378	.98193	106.02	10.464	35.916
#1	.05432	.03057	.03048	.03051	.00074	.00239	.00184
#2	.05448	.02945	.03168	.03094	.00515	.00206	.00309
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00197	-.00067	-.00110	.00313	.09555	.11370	
SDev	.00047	.00101	.00083	.00081	.00046	.00105	
%RSD	23.785	151.49	75.421	25.863	.48046	.92812	
#1	-.00231	-.00139	-.00169	.00255	.09588	.11445	
#2	-.00164	.00005	-.00051	.00370	.09523	.11296	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 08:26:54 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18905	--	--	--	--	--	--
SDev	95.95521	--	--	--	--	--	--
%RSD	.5075666	--	--	--	--	--	--
#1	18837	--	--	--	--	--	--
#2	18973	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T3

Operator: RJG

Run Time: 09/24/00 20:26:58

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00045	.44942	.00069	.06845	-.00041	21.993	.00070
SDev	.00027	.00437	.00100	.00006	.00005	.033	.00009
%RSD	59.841	.97297	145.40	.08144	13.187	.15093	13.099
#1	.00026	.45251	-.00002	.06841	-.00037	22.017	.00077
#2	.00065	.44633	.00140	.06849	-.00045	21.970	.00064
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00127	.00575	.00440	2.0573	11.067	.34834	.00200
SDev	.00029	.00025	.00032	.0002	.000	.00017	.00008
%RSD	22.787	4.3536	7.3142	.00842	.00002	.04757	3.9067
#1	.00106	.00558	.00417	2.0574	11.067	.34822	.00206
#2	.00147	.00593	.00462	2.0572	11.067	.34846	.00195
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00148	.00185	.00064	.00104	-.00091	.00062	.00011
SDev	.00083	.00149	.00055	.00086	.00220	.00060	.00113
%RSD	56.128	80.159	86.017	82.553	241.13	96.084	998.76
#1	.00089	.00291	.00103	.00165	-.00247	.00020	-.00069
#2	.00207	.00080	.00025	.00043	.00064	.00105	.00091
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00112	.00390	.00298	-.00049	.00412	.00650	
SDev	.00191	.00118	.00015	.00133	.00040	.00013	
%RSD	170.00	30.284	5.0751	270.00	9.6795	1.9493	
#1	.00248	.00306	.00287	.00045	.00384	.00641	
#2	-.00023	.00473	.00308	-.00144	.00440	.00659	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 08:31:04 PM

6721378

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18921	--	--	--	--	--	--
SDev	88.17705	--	--	--	--	--	--
%RSD	.4660163	--	--	--	--	--	--
#1	18984	--	--	--	--	--	--
#2	18859	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T5 Operator: RJG
Run Time: 09/24/00 20:31:08
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00043	11.021	.02252	.22719	.00012	233.20	.00223
SDev	.00023	.003	.00003	.00011	.00000	.23	.00037
%RSD	53.211	.02427	.10959	.04891	2.9749	.09803	16.549
#1	.00027	11.019	.02254	.22727	.00012	233.37	.00249
#2	.00060	11.023	.02251	.22711	.00012	233.04	.00197
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02642	.09288	.06834	25.817	37.882	.69156	.01015
SDev	.00028	.00012	.00054	.040	.011	.00079	.00065
%RSD	1.0692	.12821	.79202	.15625	.02839	.11482	6.4216
#1	.02662	.09279	.06796	25.788	37.890	.69100	.01061
#2	.02622	.09296	.06872	25.846	37.874	.69212	.00969
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05915	.11590	.11151	.11297	.00132	.00182	.00165
SDev	.00016	.00169	.00117	.00134	.00181	.00355	.00297
%RSD	.26611	1.4553	1.0469	1.1864	137.49	195.76	180.25
#1	.05903	.11709	.11234	.11392	.00260	.00433	.00375
#2	.05926	.11471	.11069	.11203	.00004	-.00070	-.00045
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00041	.00077	.00038	.00089	.05168	.18069	
SDev	.00260	.00102	.00018	.00409	.00071	.00024	
%RSD	637.71	132.49	48.259	461.31	1.3652	.13048	
#1	.00143	.00005	.00051	.00378	.05118	.18052	
#2	-.00225	.00150	.00025	-.00201	.05218	.18086	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18653	--	--	--	--	--	--
SDev	119.0771	--	--	--	--	--	--
%RSD	.6383768	--	--	--	--	--	--
#1	18569	--	--	--	--	--	--
#2	18737	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T5P5

Operator: RJG

Run Time: 09/24/00 20:35:17

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	2.4478	.00293	.04625	.00004	46.977	.00035
SDev	.00011	.0052	.00021	.00005	.00005	.053	.00005
%RSD	700.51	.21122	7.2544	.11609	128.52	.11384	13.945

#1	-.00006	2.4515	.00278	.04629	.00008	47.015	.00032
#2	.00009	2.4442	.00308	.04621	.00000	46.940	.00039

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00461	.01921	.01344	5.2389	7.4888	.13876	.00213
SDev	.00003	.00016	.00029	.0016	.0001	.00009	.00000
%RSD	.68376	.84437	2.1477	.02982	.00102	.06306	.14583

#1	.00458	.01933	.01324	5.2378	7.4889	.13870	.00212
#2	.00463	.01910	.01365	5.2400	7.4888	.13882	.00213

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01031	.02418	.02214	.02282	-.00101	.00245	.00130
SDev	.00052	.00026	.00027	.00009	.00130	.00015	.00053
%RSD	5.0425	1.0889	1.2260	.40921	128.58	6.3232	41.234

#1	.01067	.02437	.02195	.02276	-.00193	.00234	.00092
#2	.00994	.02400	.02233	.02289	-.00009	.00256	.00168

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00002	-.00029	-.00020	-.00177	.00990	.03629
SDev	.00055	.00322	.00233	.00092	.00001	.00003
%RSD	2741.4	1096.8	1151.4	51.764	.07743	.09283

#1	.00037	.00198	.00145	-.00112	.00989	.03627
#2	-.00041	-.00257	-.00185	-.00242	.00990	.03632

Analysis Report

09/24/00 08:39:23 PM

6721382
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19329	--	--	--	--	--	--
SDev	16.29936	--	--	--	--	--	--
%RSD	.0843269	--	--	--	--	--	--
#1	19340	--	--	--	--	--	--
#2	19317	--	--	--	--	--	--

6721383

Analysis Report

09/24/00 08:43:32 PM

page 1

Method: METTRA Sample Name: DK0T5S Operator: RJG
 Run Time: 09/24/00 20:39:27
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05361	12.918	2.1694	2.2123	.05074	231.08	.05251
SDev	.00027	.139	.0127	.0157	.00032	1.71	.00055
%RSD	.50558	1.0784	.58701	.70842	.62532	.74216	1.0538
#1	.05342	12.820	2.1604	2.2012	.05051	229.86	.05212
#2	.05381	13.017	2.1784	2.2234	.05096	232.29	.05290
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53450	.29408	.31992	26.030	37.484	1.1817	.00970
SDev	.00410	.00200	.00271	.240	.284	.0088	.00012
%RSD	.76746	.67916	.84787	.92285	.75890	.74837	1.2164
#1	.53160	.29267	.31800	25.860	37.283	1.1754	.00961
#2	.53740	.29549	.32184	26.200	37.685	1.1879	.00978
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.55766	.62781	.63129	.63013	.00018	.00051	.00040
SDev	.00406	.00095	.00323	.00247	.00178	.00179	.00060
%RSD	.72745	.15166	.51220	.39258	997.44	350.42	149.56
#1	.55479	.62713	.62900	.62838	.00144	-.00075	-.00002
#2	.56053	.62848	.63357	.63188	-.00108	.00177	.00082
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.1680	2.1296	2.1424	2.1102	.54734	.67214	
SDev	.0089	.0194	.0159	.0272	.00557	.00573	
%RSD	.40915	.91279	.74308	1.2894	1.0181	.85243	
#1	2.1617	2.1159	2.1311	2.0910	.54340	.66809	
#2	2.1743	2.1434	2.1537	2.1295	.55128	.67619	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 08:43:32 PM

6721384
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18840	--	--	--	--	--	--
SDev	38.04290	--	--	--	--	--	--
%RSD	.2019300	--	--	--	--	--	--
#1	18867	--	--	--	--	--	--
#2	18813	--	--	--	--	--	--

6721385

Analysis Report

09/24/00 08:47:42 PM

page 1

Method: METTRA Sample Name: DK0T5D Operator: RJG
 Run Time: 09/24/00 20:43:36
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05359	12.735	2.1961	2.2489	.05154	237.88	.05330
SDev	.00026	.070	.0201	.0173	.00044	2.36	.00024
%RSD	.49130	.54776	.91751	.76773	.85135	.99100	.44253
#1	.05378	12.784	2.2103	2.2611	.05185	239.55	.05347
#2	.05340	12.686	2.1818	2.2367	.05123	236.21	.05314
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54023	.29685	.32173	26.197	38.591	1.2079	.00895
SDev	.00447	.00274	.00241	.183	.303	.0098	.00049
%RSD	.82703	.92166	.74916	.69854	.78486	.80917	5.4780
#1	.54339	.29879	.32343	26.326	38.805	1.2148	.00930
#2	.53707	.29492	.32002	26.067	38.376	1.2010	.00860
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.56698	.63495	.63247	.63330	.00065	.00141	.00115
SDev	.00349	.00835	.00154	.00175	.00125	.00096	.00105
%RSD	.61638	1.3157	.24407	.27669	193.22	67.969	91.363
#1	.56945	.64086	.63138	.63453	-.00024	.00073	.00041
#2	.56451	.62905	.63356	.63206	.00153	.00208	.00190
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1932	2.1450	2.1611	2.1362	.55284	.67536
SDev	.0293	.0183	.0024	.0149	.00479	.00607
%RSD	1.3364	.85189	.11234	.69580	.86583	.89889
#1	2.2139	2.1321	2.1593	2.1467	.55622	.67965
#2	2.1725	2.1579	2.1628	2.1257	.54945	.67106
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 08:47:42 PM

6721386

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18858	--	--	--	--	--	--
SDev	196.8243	--	--	--	--	--	--
%RSD	1.043716	--	--	--	--	--	--
#1	18719	--	--	--	--	--	--
#2	18997	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T6

Operator: RJG

Run Time: 09/24/00 20:47:46

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00035	.42275	-.00011	.05790	-.00033	17.328	.00067
SDev	.00055	.00641	.00008	.00002	.00002	.066	.00006
%RSD	159.15	1.5157	67.796	.03684	7.5268	.37988	8.7521
#1	.00073	.42728	-.00006	.05791	-.00031	17.375	.00063
#2	-.00004	.41822	-.00017	.05788	-.00035	17.282	.00072
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00102	.00498	.00250	2.0150	10.403	.33047	.00072
SDev	.00028	.00053	.00008	.0206	.021	.00065	.00095
%RSD	27.829	10.686	3.1428	1.0228	.20592	.19767	131.66
#1	.00122	.00536	.00256	2.0296	10.418	.33094	.00139
#2	.00082	.00461	.00245	2.0004	10.388	.33001	.00005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00141	.00218	.00226	.00223	-.00105	.00262	.00140
SDev	.00089	.00276	.00011	.00084	.00343	.00072	.00162
%RSD	62.576	126.38	4.9082	37.830	326.71	27.386	116.16
#1	.00204	.00023	.00233	.00163	.00138	.00312	.00254
#2	.00079	.00413	.00218	.00283	-.00348	.00211	.00025
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00240	.00323	.00295	.00070	.00395	.00657	
SDev	.00006	.00117	.00080	.00156	.00020	.00017	
%RSD	2.3413	36.095	26.964	222.66	5.1971	2.6510	
#1	.00244	.00406	.00352	-.00040	.00410	.00670	
#2	.00236	.00241	.00239	.00181	.00381	.00645	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 08:51:51 PM

6721388
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18999	--	--	--	--	--	--
SDev	44.47729	--	--	--	--	--	--
%RSD	.2340996	--	--	--	--	--	--
#1	18968	--	--	--	--	--	--
#2	19031	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-7

Operator: RJG

Run Time: 09/24/00 20:51:55

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0224	24.179	.52740	1.9773	2.0049	50.456	.50784
SDev	.0013	.136	.00557	.0110	.0040	.094	.00221
%RSD	.12728	.56218	1.0554	.55751	.20113	.18610	.43602
#1	1.0215	24.083	.52347	1.9696	2.0020	50.390	.50628
#2	1.0233	24.275	.53134	1.9851	2.0077	50.523	.50941
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0165	2.0251	1.9672	25.010	49.829	1.9876	2.0198
SDev	.0057	.0047	.0076	.120	.101	.0062	.0111
%RSD	.28167	.23042	.38747	.47904	.20275	.31362	.55043
#1	2.0125	2.0218	1.9618	24.925	49.758	1.9832	2.0119
#2	2.0205	2.0284	1.9726	25.095	49.900	1.9920	2.0277
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0217	.51213	.51151	.51171	.50915	.52057	.51677
SDev	.0058	.00375	.00365	.00368	.00806	.00370	.00515
%RSD	.28849	.73173	.71336	.71948	1.5836	.71047	.99693
#1	2.0176	.51478	.51409	.51432	.51485	.52318	.52041
#2	2.0258	.50948	.50893	.50911	.50345	.51795	.51312
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.54117	.52674	.53155	1.0436	1.9823	2.0233	
SDev	.00142	.00207	.00185	.0009	.0067	.0038	
%RSD	.26138	.39263	.34814	.08274	.33999	.18852	
#1	.54217	.52821	.53286	1.0430	1.9775	2.0206	
#2	.54017	.52528	.53024	1.0442	1.9871	2.0260	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

Analysis Report

09/24/00 08:56:01 PM

6721390
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19138	--	--	--	--	--	--
SDev	177.9423	--	--	--	--	--	--
%RSD	.9297841	--	--	--	--	--	--
#1	19012	--	--	--	--	--	--
#2	19264	--	--	--	--	--	--

Method: METTRA Sample Name: CCB7

Operator: RJG

Run Time: 09/24/00 20:56:05

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00073	.02764	-.00087	.00045	.00051	.02000	.00020
SDev	.00027	.00250	.00086	.00014	.00004	.00128	.00005
%RSD	37.054	9.0494	98.228	31.028	7.9870	6.4103	26.465
#1	.00054	.02587	-.00148	.00035	.00048	.01910	.00016
#2	.00092	.02941	-.00027	.00055	.00054	.02091	.00024
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00039	.00048	-.00019	.00414	.01433	.00056	.00413
SDev	.00038	.00027	.00020	.00183	.00257	.00006	.00180
%RSD	96.132	55.732	106.85	44.209	17.945	11.215	43.557
#1	-.00066	.00029	-.00033	.00285	.01251	.00052	.00540
#2	-.00013	.00067	-.00005	.00544	.01615	.00060	.00285
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00147	.00096	.00083	.00088	-.00026	.00411	.00265
SDev	.00111	.00110	.00066	.00080	.00144	.00211	.00189
%RSD	75.544	114.33	78.757	91.726	548.25	51.334	71.094
#1	-.00226	.00018	.00037	.00031	-.00128	.00262	.00132
#2	-.00069	.00173	.00130	.00144	.00076	.00560	.00399
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00009	.00480	.00323	.00205	-.00011	.00087	
SDev	.00158	.00056	.00090	.00072	.00036	.00016	
%RSD	1827.6	11.762	27.930	35.261	320.17	18.264	
#1	.00120	.00520	.00387	.00154	.00014	.00075	
#2	-.00103	.00440	.00259	.00256	-.00037	.00098	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 09:00:11 PM

6721392
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19657	--	--	--	--	--	--
SDev	99.91336	--	--	--	--	--	--
%RSD	.5082722	--	--	--	--	--	--
#1	19728	--	--	--	--	--	--
#2	19587	--	--	--	--	--	--

6721393

Analysis Report

09/24/00 09:04:20 PM

page 1

Method: METTRA Sample Name: -DK0T7

Operator: RJG

Run Time: 09/24/00 21:00:15

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	.21041	-.00056	.29600	-.00065	145.69	.00195
SDev	.00046	.00599	.00296	.00156	.00006	.55	.00003
%RSD	163.98	2.8472	524.66	.52679	9.0288	.37860	1.5166
#1	-.00004	.21465	-.00266	.29710	-.00069	146.08	.00197
#2	.00060	.20617	.00153	.29490	-.00061	145.30	.00193
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00129	.00227	.00290	1.5477	73.567	.76031	.00209
SDev	.00027	.00004	.00019	.0114	.257	.00257	.00060
%RSD	20.598	1.7098	6.5142	.73423	.34935	.33766	28.525
#1	.00110	.00224	.00277	1.5558	73.749	.76213	.00252
#2	.00148	.00230	.00303	1.5397	73.385	.75850	.00167
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00400	.00277	.00056	.00130	-.00154	.00342	.00177
SDev	.00007	.00147	.00111	.00123	.00047	.00044	.00014
%RSD	1.8823	53.037	197.27	94.620	30.422	12.988	7.9401
#1	.00405	.00173	-.00022	.00043	-.00121	.00310	.00167
#2	.00394	.00381	.00134	.00216	-.00187	.00373	.00187
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00008	.00311	.00210	-.00097	.00622	.01783	
SDev	.00088	.00458	.00276	.00161	.00059	.00009	
%RSD	1125.8	146.96	131.27	166.00	9.4665	.52066	
#1	-.00054	.00635	.00405	-.00210	.00580	.01776	
#2	.00070	-.00012	.00015	.00017	.00664	.01789	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 09:04:20 PM

6721394
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18104	--	--	--	--	--	--
SDev	13.47094	--	--	--	--	--	--
%RSD	.0744095	--	--	--	--	--	--
#1	18094	--	--	--	--	--	--
#2	18113	--	--	--	--	--	--

Analysis Report

09/24/00 09:08:30 PM

page 1

Method: METTRA Sample Name: DK0T8

Operator: RJG

Run Time: 09/24/00 21:04:24

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00101	9.7817	.00594	.07803	.00038	430.34	.00191
SDev	.00031	.2344	.00087	.00191	.00016	6.78	.00001
%RSD	30.773	2.3959	14.605	2.4482	42.028	1.5765	.55466
#1	.00079	9.9474	.00655	.07938	.00027	435.13	.00190
#2	.00123	9.6160	.00533	.07667	.00049	425.54	.00192
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05154	.07675	.04950	14.250	143.72	1.9007	.00816
SDev	.00006	.00164	.00152	.256	2.41	.0339	.00049
%RSD	.10895	2.1423	3.0662	1.7976	1.6763	1.7849	6.0688
#1	.05150	.07792	.05057	14.432	145.43	1.9247	.00781
#2	.05158	.07559	.04843	14.069	142.02	1.8767	.00851
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08545	.03548	.02785	.03039	-.00397	.00460	.00175
SDev	.00178	.00073	.00079	.00077	.00146	.00089	.00108
%RSD	2.0782	2.0477	2.8502	2.5382	36.938	19.391	61.999
#1	.08670	.03496	.02729	.02984	-.00500	.00397	.00098
#2	.08419	.03599	.02841	.03093	-.00293	.00523	.00251
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.02704	.02199	.02367	-.00285	.05027	.11600	
SDev	.00026	.00055	.00028	.00102	.00201	.00183	
%RSD	.97188	2.5069	1.1833	35.861	3.9937	1.5790	
#1	.02723	.02160	.02347	-.00213	.05169	.11729	
#2	.02686	.02237	.02387	-.00357	.04885	.11470	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 09:08:30 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18148	--	--	--	--	--	--
SDev	367.5892	--	--	--	--	--	--
%RSD	2.025483	--	--	--	--	--	--
#1	17888	--	--	--	--	--	--
#2	18408	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T9 Operator: RJG
Run Time: 09/24/00 21:08:34
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00072	.04278	-.00021	.00015	-.00014	.09692	.00020
SDev	.00018	.00255	.00074	.00005	.00003	.00222	.00000
%RSD	24.840	5.9647	356.08	29.967	20.322	2.2893	1.9992
#1	.00059	.04458	-.00073	.00012	-.00012	.09535	.00020
#2	.00085	.04097	.00032	.00018	-.00016	.09849	.00020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00052	.00057	.00153	.02733	.03190	.00067	.00065
SDev	.00065	.00023	.00034	.01078	.00472	.00001	.00048
%RSD	126.19	40.021	22.225	39.428	14.796	.72018	74.145
#1	-.00098	.00041	.00177	.03495	.02856	.00068	.00099
#2	-.00006	.00073	.00129	.01971	.03523	.00067	.00031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00059	.00133	.00010	.00051	.00076	.00175	.00142
SDev	.00046	.00255	.00292	.00110	.00160	.00183	.00175
%RSD	77.990	192.10	2931.3	215.57	210.05	104.79	123.58
#1	-.00092	-.00048	.00216	.00128	.00189	.00304	.00266
#2	-.00027	.00313	-.00196	-.00027	-.00037	.00045	.00018
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00283	.00360	.00146	-.00439	-.00036	.00079
SDev	.00129	.00055	.00006	.00041	.00000	.00003
%RSD	45.465	15.301	4.2480	9.3996	1.0330	3.5899
#1	-.00375	.00399	.00141	-.00410	-.00036	.00077
#2	-.00192	.00321	.00150	-.00468	-.00037	.00081
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 09:12:40 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19034	--	--	--	--	--	--
SDev	95.98975	--	--	--	--	--	--
%RSD	.5043180	--	--	--	--	--	--
#1	18966	--	--	--	--	--	--
#2	19101	--	--	--	--	--	--

Method: METTRA Sample Name: DK0TA

Operator: RJG

Run Time: 09/24/00 21:12:44

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00036	.81082	.00403	.29501	-.00018	125.07	.00139
SDev	.00081	.00058	.00184	.00082	.00010	.27	.00023
%RSD	226.29	.07124	45.516	.27679	56.535	.21343	16.322

#1	-.00021	.81122	.00274	.29558	-.00011	125.26	.00123
#2	.00092	.81041	.00533	.29443	-.00025	124.89	.00155

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00141	.01070	.02570	38.472	73.644	.66485	.00598
SDev	.00017	.00065	.00019	.068	.035	.00036	.00002
%RSD	12.066	6.0453	.73301	.17710	.04804	.05448	.38685

#1	.00153	.01024	.02557	38.424	73.669	.66510	.00597
#2	.00129	.01116	.02583	38.521	73.619	.66459	.00600

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00884	.03422	.03447	.03439	.00106	.00220	.00182
SDev	.00024	.00015	.00006	.00001	.00088	.00001	.00030
%RSD	2.7304	.45359	.18584	.02604	82.878	.21859	16.188

#1	.00867	.03411	.03452	.03438	.00168	.00221	.00203
#2	.00901	.03433	.03443	.03440	.00044	.00220	.00161

Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00012	.00389	.00255	.00047	.01306	.21357
SDev	.00105	.00017	.00047	.00096	.00002	.00025
%RSD	856.34	4.4604	18.245	205.71	.18217	.11864

#1	.00062	.00401	.00288	.00114	.01304	.21339
#2	-.00087	.00376	.00222	-.00021	.01308	.21375

Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 09:16:50 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18527	--	--	--	--	--	--
SDev	56.92210	--	--	--	--	--	--
%RSD	.3072369	--	--	--	--	--	--
#1	18567	--	--	--	--	--	--
#2	18487	--	--	--	--	--	--

6721401

Analysis Report

09/24/00 09:20:59 PM

page 1

Method: METTRA Sample Name: DK0T1F

Operator: RJG

Run Time: 09/24/00 21:16:54

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	.06776	.00476	.10186	-.00070	92.324	.00002
SDev	.00005	.00537	.00050	.00006	.00003	.064	.00006
%RSD	121.48	7.9272	10.557	.05910	4.6513	.06927	321.55
#1	.00007	.07156	.00440	.10181	-.00067	92.279	-.00002
#2	.00001	.06396	.00511	.10190	-.00072	92.369	.00006
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00026	.00098	.00225	.44436	13.171	.28505	.03825
SDev	.00033	.00012	.00003	.00058	.035	.00055	.00009
%RSD	124.64	12.638	1.5313	.12982	.26230	.19416	.23534
#1	-.00003	.00107	.00227	.44477	13.147	.28466	.03819
#2	-.00050	.00089	.00223	.44395	13.196	.28544	.03832
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00218	.00089	-.00016	.00019	-.00033	.00345	.00219
SDev	.00043	.00174	.00111	.00132	.00010	.00120	.00084
%RSD	19.556	196.26	697.96	699.50	28.667	34.904	38.130
#1	.00188	.00211	.00063	.00112	-.00040	.00260	.00160
#2	.00249	-.00034	-.00094	-.00074	-.00027	.00430	.00278
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00082	.00510	.00313	-.00190	.00120	.00322	
SDev	.00131	.00245	.00120	.00280	.00040	.00014	
%RSD	159.56	48.102	38.335	147.72	33.476	4.2627	
#1	.00011	.00337	.00228	.00008	.00149	.00312	
#2	-.00175	.00684	.00398	-.00388	.00092	.00332	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17948	--	--	--	--	--	--
SDev	4.489852	--	--	--	--	--	--
%RSD	.0250157	--	--	--	--	--	--
#1	17945	--	--	--	--	--	--
#2	17951	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T2F

Operator: RJG

Run Time: 09/24/00 21:21:03

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00069	.07325	-.00009	.27829	-.00071	112.39	.00029
SDev	.00034	.00042	.00232	.00074	.00001	.04	.00016
%RSD	49.516	.57219	2653.0	.26721	1.5679	.03285	56.101
#1	.00094	.07296	.00155	.27881	-.00070	112.36	.00040
#2	.00045	.07355	-.00173	.27776	-.00072	112.41	.00017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00056	.00116	.01158	12.837	58.199	1.2800	.00057
SDev	.00036	.00038	.00011	.006	.070	.0007	.00019
%RSD	64.218	32.775	.91468	.04524	.12028	.05275	33.222
#1	.00031	.00143	.01151	12.841	58.150	1.2795	.00071
#2	.00082	.00089	.01166	12.833	58.249	1.2805	.00044
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00017	.00323	.00090	.00168	-.00046	.00375	.00235
SDev	.00187	.00069	.00149	.00122	.00071	.00079	.00029
%RSD	1075.7	21.428	166.22	73.109	155.91	21.041	12.281
#1	-.00115	.00274	-.00016	.00081	-.00096	.00431	.00255
#2	.00150	.00372	.00195	.00254	.00005	.00319	.00215
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00235	.00765	.00432	-.00262	.00411	.00976	
SDev	.00115	.00359	.00201	.00011	.00000	.00004	
%RSD	48.764	46.933	46.602	4.1051	.04935	.42943	
#1	-.00316	.01019	.00574	-.00270	.00411	.00973	
#2	-.00154	.00511	.00290	-.00255	.00411	.00979	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 09:25:09 PM

6721404
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17912	--	--	--	--	--	--
SDev	80.64470	--	--	--	--	--	--
%RSD	.4502190	--	--	--	--	--	--
#1	17969	--	--	--	--	--	--
#2	17855	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T3F Operator: RJG
Run Time: 09/24/00 21:25:13
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	.07054	.00023	.03284	-.00075	9.0231	.00020
SDev	.00026	.00178	.00105	.00008	.00012	.0065	.00001
%RSD	45.725	2.5233	461.93	.23431	16.391	.07166	5.3474
#1	.00075	.06928	.00097	.03279	-.00084	9.0277	.00019
#2	.00038	.07180	-.00052	.03290	-.00067	9.0185	.00021
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00120	.00046	.00142	-.01209	10.187	.02573	.00157
SDev	.00003	.00011	.00027	.00204	.001	.00007	.00020
%RSD	2.5863	24.076	18.833	16.895	.01379	.25940	12.624
#1	-.00122	.00054	.00161	-.01354	10.186	.02577	.00143
#2	-.00118	.00038	.00123	-.01065	10.188	.02568	.00171
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00155	.00314	.00119	.00184	.00070	.00253	.00192
SDev	.00043	.00030	.00104	.00059	.00114	.00040	.00011
%RSD	27.718	9.6205	86.946	32.050	161.56	15.845	5.8225
#1	-.00185	.00336	.00046	.00142	-.00010	.00281	.00184
#2	-.00125	.00293	.00192	.00226	.00151	.00224	.00200
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.00415	.00414	.00138	-.00284	.00147	.00062	
SDev	.00082	.00034	.00050	.00231	.00262	.00021	
%RSD	19.828	8.3318	36.495	81.424	177.72	33.464	
#1	-.00357	.00439	.00174	-.00120	-.00038	.00048	
#2	-.00473	.00390	.00102	-.00447	.00333	.00077	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 09:29:19 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17876	--	--	--	--	--	--
SDev	12.69340	--	--	--	--	--	--
%RSD	.0710097	--	--	--	--	--	--
#1	17867	--	--	--	--	--	--
#2	17885	--	--	--	--	--	--

6721407

Analysis Report

09/24/00 09:33:29 PM

page 1

Method: METTRA Sample Name: DK0T5F Operator: RJG
 Run Time: 09/24/00 21:29:23
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00027	.06849	.00753	.17226	-.00050	221.33	.00005
SDev	.00036	.00275	.00066	.00006	.00011	.39	.00018
%RSD	133.90	4.0190	8.7400	.03395	21.508	.17613	358.64
#1	.00001	.06654	.00706	.17231	-.00042	221.60	.00018
#2	.00052	.07044	.00799	.17222	-.00057	221.05	-.00008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00301	.00088	.00365	4.3593	39.528	.79414	.00414
SDev	.00029	.00005	.00038	.0099	.028	.00018	.00059
%RSD	9.7713	6.1151	10.567	.22811	.06973	.02243	14.219
#1	.00280	.00092	.00338	4.3523	39.547	.79402	.00373
#2	.00322	.00084	.00392	4.3663	39.508	.79427	.00456
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00300	.00223	.00052	.00109	.00047	.00372	.00264
SDev	.00000	.00088	.00063	.00013	.00181	.00164	.00170
%RSD	.00411	39.335	122.14	11.935	385.90	44.111	64.371
#1	.00300	.00161	.00097	.00118	.00175	.00488	.00384
#2	.00300	.00286	.00007	.00100	-.00081	.00256	.00144
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00107	.00277	.00221	.00056	.00338	.00244	
SDev	.00008	.00082	.00057	.00155	.00000	.00024	
%RSD	7.7828	29.456	25.947	277.60	.10184	9.8218	
#1	.00101	.00220	.00180	-.00054	.00338	.00227	
#2	.00113	.00335	.00261	.00165	.00338	.00261	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 09:33:29 PM

6721408
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18276	--	--	--	--	--	--
SDev	.2472112	--	--	--	--	--	--
%RSD	.0013527	--	--	--	--	--	--
#1	18276	--	--	--	--	--	--
#2	18276	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T5P5F

Operator: RJG

Run Time: 09/24/00 21:33:33

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00050	.04153	.00014	.03337	-.00008	43.474	.00013
SDev	.00005	.00123	.00068	.00001	.00004	.100	.00004
%RSD	10.712	2.9609	500.31	.01510	49.759	.23077	30.663

#1	.00054	.04240	.00062	.03336	-.00005	43.545	.00010
#2	.00047	.04066	-.00035	.03337	-.00010	43.403	.00016

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00006	.00041	.00046	.85612	7.6109	.15542	.00092
SDev	.00023	.00028	.00003	.00198	.0053	.00001	.00047
%RSD	398.49	70.080	6.0034	.23119	.06943	.00700	51.632

#1	.00010	.00020	.00044	.85752	7.6146	.15543	.00125
#2	-.00022	.00061	.00048	.85472	7.6071	.15541	.00058

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00097	-.00034	.00247	.00154	.00052	.00175	.00134
SDev	.00061	.00287	.00003	.00094	.00016	.00075	.00056
%RSD	62.338	847.62	1.0754	60.994	31.149	42.985	41.451

#1	-.00054	-.00237	.00249	.00087	.00064	.00228	.00173
#2	-.00140	.00169	.00245	.00220	.00041	.00122	.00095

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00156	.00252	.00116	.00064	-.00007	.00104
SDev	.00209	.00270	.00111	.00129	.00000	.00020
%RSD	133.74	107.18	95.323	202.90	.92303	19.399

#1	-.00008	.00061	.00038	-.00028	-.00007	.00089
#2	-.00303	.00443	.00195	.00155	-.00008	.00118

Analysis Report

09/24/00 09:37:39 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19037	--	--	--	--	--	--
SDev	12.41028	--	--	--	--	--	--
%RSD	.0651919	--	--	--	--	--	--
#1	19028	--	--	--	--	--	--
#2	19045	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T5SF Operator: RJG
Run Time: 09/24/00 21:37:43
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS.	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05287	2.0758	2.1607	2.1260	.04997	215.41	.05075
SDev	.00032	.0033	.0001	.0074	.00017	.19	.00003
%RSD	.60496	.15835	.00261	.34923	.33190	.08634	.05529
#1	.05309	2.0781	2.1608	2.1208	.04985	215.28	.05073
#2	.05264	2.0735	2.1607	2.1313	.05009	215.55	.05077
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50955	.20463	.25122	5.2380	38.536	1.2692	.00318
SDev	.00133	.00049	.00014	.0197	.032	.0028	.00149
%RSD	.26084	.23732	.05704	.37547	.08290	.22449	46.943
#1	.50861	.20498	.25133	5.2241	38.514	1.2671	.00213
#2	.51049	.20429	.25112	5.2519	38.559	1.2712	.00424
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50467	.52284	.52440	.52388	-.00012	.00256	.00167
SDev	.00297	.00913	.00250	.00471	.00046	.00130	.00102
%RSD	.58926	1.7457	.47764	.89907	394.23	50.861	61.260
#1	.50257	.52929	.52618	.52721	.00021	.00349	.00240
#2	.50678	.51638	.52263	.52055	-.00044	.00164	.00095
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.1993	2.1466	2.1642	2.1296	.49219	.52215	
SDev	.0211	.0241	.0231	.0060	.00164	.00137	
%RSD	.95772	1.1239	1.0677	.28053	.33410	.26312	
#1	2.2142	2.1637	2.1805	2.1253	.49102	.52118	
#2	2.1844	2.1296	2.1478	2.1338	.49335	.52313	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 09:41:48 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18745	--	--	--	--	--	--
SDev	150.4715	--	--	--	--	--	--
%RSD	.8027094	--	--	--	--	--	--
#1	18639	--	--	--	--	--	--
#2	18852	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-8 Operator: RJG
Run Time: 09/24/00 21:41:53
Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0392	24.607	.53910	2.0020	2.0491	51.725	.52131
SDev	.0032	.086	.00279	.0058	.0078	.244	.00238
%RSD	.30603	.34925	.51727	.28847	.37930	.47077	.45750
#1	1.0415	24.668	.54108	2.0061	2.0546	51.897	.52299
#2	1.0370	24.546	.53713	1.9979	2.0436	51.552	.51962
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0626	2.0705	1.9946	25.592	50.980	2.0298	2.0605
SDev	.0062	.0067	.0071	.074	.210	.0067	.0048
%RSD	.30227	.32261	.35397	.28955	.41199	.33073	.23118
#1	2.0670	2.0752	1.9996	25.644	51.129	2.0345	2.0571
#2	2.0582	2.0657	1.9896	25.539	50.832	2.0250	2.0639
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.0738	.52156	.52883	.52641	.52414	.52315	.52348
SDev	.0135	.00190	.00090	.00123	.00493	.00532	.00191
%RSD	.65180	.36462	.17052	.23456	.94106	1.0171	.36422
#1	2.0834	.52022	.52819	.52553	.52763	.51939	.52213
#2	2.0643	.52291	.52946	.52728	.52065	.52691	.52483
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.54970	.54442	.54617	1.0704	2.0179	2.0733	
SDev	.00321	.00081	.00161	.0057	.0081	.0080	
%RSD	.58485	.14894	.29503	.53286	.40328	.38803	
#1	.55197	.54499	.54731	1.0745	2.0237	2.0790	
#2	.54743	.54384	.54504	1.0664	2.0122	2.0676	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

Analysis Report

09/24/00 09:45:58 PM

6721414
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18678	--	--	--	--	--	--
SDev	39.52755	--	--	--	--	--	--
%RSD	.2116251	--	--	--	--	--	--
#1	18650	--	--	--	--	--	--
#2	18706	--	--	--	--	--	--

Method: METTRA Sample Name: CCB8

Operator: RJG

Run Time: 09/24/00 21:46:02

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00058	.03154	.00090	.00061	.00075	.02797	.00017
SDev	.00032	.00208	.00125	.00001	.00003	.00278	.00010
%RSD	55.208	6.6046	139.83	1.3848	3.3280	9.9210	57.825
#1	.00081	.03301	.00001	.00061	.00076	.02601	.00025
#2	.00036	.03006	.00178	.00060	.00073	.02993	.00010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00047	.00058	.00006	.00151	.01543	.00059	.00413
SDev	.00011	.00003	.00001	.00467	.00097	.00010	.00238
%RSD	23.444	4.8668	17.442	308.37	6.2901	16.996	57.755
#1	-.00055	.00060	.00007	.00481	.01612	.00052	.00582
#2	-.00039	.00056	.00005	-.00179	.01474	.00066	.00244
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00134	.00160	-.00107	-.00018	-.00173	-.00055	-.00095
SDev	.00013	.00292	.00067	.00142	.00052	.00091	.00044
%RSD	9.8931	182.39	63.143	799.96	29.977	165.22	46.038
#1	-.00124	-.00046	-.00154	-.00118	-.00137	-.00120	-.00125
#2	-.00143	.00367	-.00059	.00083	-.00210	.00009	-.00064
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00566	-.00023	.00173	.00327	-.00037	.00080	
SDev	.00277	.00061	.00133	.00084	.00000	.00000	
%RSD	48.863	269.16	76.846	25.580	.43656	.04401	
#1	.00761	.00021	.00267	.00268	-.00037	.00080	
#2	.00370	-.00066	.00079	.00386	-.00037	.00080	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 09:50:08 PM

6721416

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19668	--	--	--	--	--	--
SDev	44.54773	--	--	--	--	--	--
%RSD	.2264997	--	--	--	--	--	--
#1	19636	--	--	--	--	--	--
#2	19699	--	--	--	--	--	--

6721417

Analysis Report

09/24/00 09:54:18 PM

page 1

Method: METTRA Sample Name: DK0T5DF Operator: RJG
 Run Time: 09/24/00 21:50:12
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05317	2.1104	2.1941	2.1599	.05092	215.55	.05165
SDev	.00023	.0011	.0017	.0051	.00036	.75	.00002
%RSD	.44028	.04988	.07701	.23733	.71139	.34861	.03405
#1	.05300	2.1097	2.1953	2.1635	.05118	216.08	.05166
#2	.05333	2.1112	2.1929	2.1563	.05067	215.02	.05164
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51684	.20698	.25767	5.2546	38.482	1.2764	.00563
SDev	.00009	.00016	.00013	.0072	.067	.0027	.00003
%RSD	.01637	.07574	.05102	.13781	.17389	.20834	.49893
#1	.51690	.20709	.25758	5.2597	38.529	1.2782	.00561
#2	.51678	.20687	.25777	5.2495	38.434	1.2745	.00565
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51307	.52553	.52630	.52604	-.00022	.00238	.00151
SDev	.00384	.00200	.00438	.00359	.00225	.00285	.00115
%RSD	.74901	.38134	.83183	.68196	1023.0	119.87	76.223
#1	.51579	.52412	.52320	.52351	.00137	.00036	.00070
#2	.51035	.52695	.52939	.52858	-.00181	.00440	.00233
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V__	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.2084	2.1553	2.1730	2.1569	.50301	.53036	
SDev	.0004	.0296	.0197	.0003	.00255	.00152	
%RSD	.01603	1.3755	.90461	.01401	.50757	.28736	
#1	2.2086	2.1344	2.1591	2.1571	.50482	.53143	
#2	2.2081	2.1763	2.1869	2.1567	.50121	.52928	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 09:54:18 PM.

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18372	--	--	--	--	--	--
SDev	71.87768	--	--	--	--	--	--
%RSD	.3912440	--	--	--	--	--	--
#1	18422	--	--	--	--	--	--
#2	18321	--	--	--	--	--	--

6721419

Analysis Report

09/24/00 09:58:28 PM

page 1

Method: METTRA Sample Name: DK0T6F

Operator: RJG

Run Time: 09/24/00 21:54:22

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00018	.06403	.00098	.03264	-.00032	8.8856	.00017
SDev	.00005	.00147	.00198	.00004	.00005	.0215	.00005
%RSD	26.413	2.2932	201.05	.11387	16.548	.24200	31.870
#1	.00015	.06299	-.00041	.03267	-.00035	8.8704	.00020
#2	.00021	.06507	.00238	.03261	-.00028	8.9008	.00013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00028	.00083	.00300	-.02492	9.9180	.02669	.00254
SDev	.00006	.00004	.00005	.01062	.0308	.00001	.00070
%RSD	20.875	4.4906	1.5216	42.620	.31038	.05090	27.392
#1	-.00023	.00080	.00297	-.03243	9.8963	.02668	.00304
#2	-.00032	.00086	.00304	-.01741	9.9398	.02670	.00205
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00062	.00187	.00031	.00083	-.00003	-.00059	-.00040
SDev	.00091	.00298	.00127	.00014	.00277	.00218	.00053
%RSD	146.73	159.29	406.19	17.193	10853.	366.67	130.54
#1	.00002	.00398	-.00059	.00093	-.00199	.00095	-.00003
#2	-.00127	-.00024	.00121	.00073	.00194	-.00213	-.00078
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00148	.00210	.00189	.00262	-.00038	.00085	
SDev	.00234	.00188	.00047	.00075	.00000	.00000	
%RSD	157.95	89.518	24.882	28.774	.96949	.18577	
#1	.00314	.00077	.00156	.00315	-.00039	.00085	
#2	-.00017	.00342	.00223	.00208	-.00038	.00085	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 09:58:28 PM

6721420
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18294	--	--	--	--	--	--
SDev	44.08783	--	--	--	--	--	--
%RSD	.2409971	--	--	--	--	--	--
#1	18263	--	--	--	--	--	--
#2	18325	--	--	--	--	--	--

Method: METTRA Sample Name: DK0T7F

Operator: RJG

Run Time: 09/24/00 21:58:32

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00048	.05828	.00113	.25948	-.00022	131.94	.00114
SDev	.00062	.00385	.00271	.00002	.00007	.07	.00011
%RSD	129.98	6.6104	239.69	.00664	32.418	.05509	9.2816
#1	.00004	.06100	.00305	.25947	-.00017	131.99	.00122
#2	.00092	.05555	-.00079	.25950	-.00027	131.89	.00107
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00094	.00061	.00198	.36434	66.348	.60814	.00089
SDev	.00026	.00022	.00038	.00950	.023	.00036	.00037
%RSD	28.052	35.456	19.082	2.6076	.03520	.06008	41.627
#1	.00075	.00046	.00171	.35762	66.332	.60788	.00116
#2	.00112	.00076	.00225	.37106	66.365	.60840	.00063
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00303	.00021	.00111	.00081	-.00038	.00254	.00157
SDev	.00092	.00225	.00051	.00041	.00217	.00053	.00108
%RSD	30.264	1090.4	46.337	50.753	568.30	21.003	68.742
#1	.00238	-.00139	.00147	.00052	.00115	.00292	.00233
#2	.00368	.00180	.00074	.00110	-.00191	.00216	.00081
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00229	.00277	.00109	.00044	.00426	.01273	
SDev	.00258	.00085	.00142	.00195	.00022	.00021	
%RSD	112.79	30.473	131.01	441.58	5.1244	1.6805	
#1	-.00046	.00337	.00209	.00182	.00410	.01289	
#2	-.00411	.00217	.00008	-.00094	.00441	.01258	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 10:02:38 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18674	--	--	--	--	--	--
SDev	90.61463	--	--	--	--	--	--
%RSD	.4852572	--	--	--	--	--	--
#1	18738	--	--	--	--	--	--
#2	18609	--	--	--	--	--	--

Analysis Report

09/24/00 10:06:48 PM

page 1

Method: METTRA Sample Name: DK0T8F Operator: RJG
 Run Time: 09/24/00 22:02:42
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	.05874	.00044	.03713	-.00034	444.44	.00032
SDev	.00011	.00430	.00098	.00009	.00000	.07	.00004
%RSD	25.055	7.3116	222.34	.23966	1.1979	.01511	12.017
#1	.00034	.06178	.00113	.03719	-.00034	444.49	.00034
#2	.00049	.05570	-.00025	.03707	-.00034	444.39	.00029
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500

Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00108	.00145	.00568	L-.21969	148.53	.28450	.00371
SDev	.00056	.00004	.00043	.00396	.02	.00001	.00047
%RSD	51.700	3.0491	7.5463	1.8036	.01544	.00256	12.577
#1	.00069	.00142	.00538	L-.22249	148.51	.28451	.00338
#2	.00148	.00149	.00599	L-.21689	148.55	.28449	.00404
Errors	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000

Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02258	.00365	-.00096	.00057	-.00388	.00549	.00237
SDev	.00170	.00128	.00217	.00102	.00201	.00046	.00098
%RSD	7.5409	35.223	225.94	177.32	51.742	8.4428	41.237
#1	.02137	.00456	-.00249	-.00015	-.00529	.00516	.00168
#2	.02378	.00274	.00057	.00129	-.00246	.00581	.00306
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000

Elem	SE/1	SE/2	SE	TL	V_	ZN
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02482	.02354	.02397	-.00487	.00716	.02048
SDev	.00654	.00148	.00317	.00029	.00004	.00009
%RSD	26.368	6.2999	13.221	5.9168	.57669	.43765
#1	.02019	.02249	.02173	-.00467	.00719	.02054
#2	.02945	.02459	.02621	-.00508	.00713	.02041
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High			10.000	10.000	50.000	5.0000
Low			-.00500	-.01000	-.05000	-.02000

Analysis Report

09/24/00 10:06:48 PM

6721424

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18089	--	--	--	--	--	--
SDev	101.4339	--	--	--	--	--	--
%RSD	.5607359	--	--	--	--	--	--
#1	18018	--	--	--	--	--	--
#2	18161	--	--	--	--	--	--

60

Method: METTRA Sample Name: DK0T9F

Operator: RJG

Run Time: 09/24/00 22:06:52

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	.04216	-.00076	.00017	.00004	.12258	.00027
SDev	.00072	.00006	.00014	.00007	.00013	.00148	.00014
%RSD	172.59	.13623	18.430	39.397	359.22	1.2088	51.747
#1	-.00009	.04220	-.00086	.00013	.00013	.12153	.00036
#2	.00093	.04212	-.00066	.00022	-.00006	.12362	.00017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00081	.00019	.00302	.00758	.03713	.00039	.00005
SDev	.00011	.00020	.00006	.00577	.00400	.00000	.00076
%RSD	13.426	101.05	1.8863	76.214	10.781	.58926	1573.1
#1	-.00089	.00006	.00298	.00349	.03430	.00039	-.00049
#2	-.00074	.00033	.00306	.01166	.03997	.00040	.00058
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00074	.00297	.00017	.00110	-.00047	.00123	.00067
SDev	.00148	.00099	.00071	.00014	.00068	.00018	.00035
%RSD	201.66	33.249	405.98	12.945	144.65	14.937	52.180
#1	-.00178	.00227	.00067	.00121	-.00095	.00110	.00042
#2	.00031	.00366	-.00033	.00100	.00001	.00136	.00091
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00097	.00050	.00001	.00013	-.00037	.00294	
SDev	.00179	.00147	.00158	.00076	.00000	.00017	
%RSD	185.74	296.81	17698.	603.20	.54314	5.6572	
#1	.00030	.00154	.00112	.00067	-.00037	.00282	
#2	-.00223	-.00054	-.00111	-.00041	-.00037	.00306	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 10:10:57 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19065	--	--	--	--	--	--
SDev	64.91157	--	--	--	--	--	--
%RSD	.3404777	--	--	--	--	--	--
#1	19111	--	--	--	--	--	--
#2	19019	--	--	--	--	--	--

Method: METTRA Sample Name: DK0TAF

Operator: RJG

Run Time: 09/24/00 22:11:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00081	.07361	.00234	.22289	-.00069	123.80	.00028
SDev	.00000	.00080	.00086	.00005	.00007	.06	.00001
%RSD	.14551	1.0794	36.982	.02356	9.6560	.04869	1.7218
#1	.00081	.07305	.00295	.22285	-.00064	123.85	.00028
#2	.00081	.07417	.00173	.22293	-.00074	123.76	.00029
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	10.000	10.000	10.000	600.00	5.0000
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.00070	.00371	14.233	73.545	.63438	.00168
SDev	.00037	.00018	.00010	.020	.057	.00000	.00011
%RSD	734.35	25.465	2.6350	.13802	.07800	.00023	6.7485
#1	.00031	.00082	.00364	14.219	73.504	.63438	.00160
#2	-.00021	.00057	.00378	14.246	73.586	.63437	.00177
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	10.000	500.00	600.00	10.000	20.000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00170	.00197	-.00003	.00064	.00094	.00314	.00241
SDev	.00096	.00109	.00127	.00049	.00179	.00269	.00239
%RSD	56.502	54.976	4331.6	76.731	190.49	85.924	99.557
#1	.00102	.00274	-.00093	.00029	.00221	.00504	.00410
#2	.00237	.00121	.00087	.00098	-.00033	.00123	.00071
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00			5.0000			10.000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00121	.00336	.00264	-.00374	.00460	.03341	
SDev	.00123	.00342	.00187	.00384	.00001	.00009	
%RSD	101.95	101.81	70.824	102.71	.14925	.27173	
#1	.00034	.00578	.00396	-.00102	.00459	.03347	
#2	.00208	.00094	.00132	-.00645	.00460	.03334	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			10.000	10.000	50.000	5.0000	
Low			-.00500	-.01000	-.05000	-.02000	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17650	--	--	--	--	--	--
SDev	65.65597	--	--	--	--	--	--
%RSD	.3719880	--	--	--	--	--	--
#1	17696	--	--	--	--	--	--
#2	17604	--	--	--	--	--	--

Method: METTRA Sample Name: CCV3-9 Operator: RJG
 Run Time: 09/24/00 22:15:12
 Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0464	24.714	.54346	2.0095	2.0764	52.488	.52875
SDev	.0034	.083	.00214	.0085	.0114	.313	.00252
%RSD	.32566	.33512	.39278	.42311	.54767	.59578	.47595
#1	1.0488	24.773	.54497	2.0155	2.0844	52.709	.53053
#2	1.0440	24.655	.54195	2.0035	2.0683	52.267	.52697
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	27.500	.55000	2.2000	2.2000	55.000	.55000
Low	.90000	22.500	.45000	1.8000	1.8000	45.000	.45000
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0871	2.0954	2.0018	25.847	51.625	2.0529	2.0845
SDev	.0104	.0078	.0069	.086	.252	.0081	.0004
%RSD	.49815	.37135	.34271	.33107	.48860	.39378	.02089
#1	2.0944	2.1009	2.0067	25.908	51.803	2.0586	2.0849
#2	2.0797	2.0899	1.9970	25.787	51.446	2.0472	2.0842
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2000	2.2000	2.2000	27.500	55.000	2.2000	2.2000
Low	1.8000	1.8000	1.8000	22.500	45.000	1.8000	1.8000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1040	.53187	.53225	.53213	.52858	.53285	.53143
SDev	.0177	.00344	.00363	.00128	.01454	.00106	.00413
%RSD	.83994	.64712	.68285	.24018	2.7515	.19949	.77792
#1	2.1165	.53431	.52968	.53122	.51830	.53360	.52851
#2	2.0915	.52944	.53482	.53303	.53887	.53210	.53435
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	2.2000			.55000			.55000
Low	1.8000			.45000			.45000
Elem	SE/1	SE/2	SE	TL	V_	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.55601	.53991	.54527	1.0794	2.0377	2.0961	
SDev	.00055	.00752	.00520	.0009	.0123	.0101	
%RSD	.09954	1.3924	.95339	.08014	.60488	.48291	
#1	.55562	.53460	.54160	1.0800	2.0464	2.1032	
#2	.55640	.54523	.54895	1.0788	2.0290	2.0889	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.55000	1.1000	2.2000	2.2000	
Low			.45000	.90000	1.8000	1.8000	

Analysis Report

09/24/00 10:19:17 PM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18582	--	--	--	--	--	--
SDev	20.22298	--	--	--	--	--	--
%RSD	.1088304	--	--	--	--	--	--
#1	18568	--	--	--	--	--	--
#2	18596	--	--	--	--	--	--

6721431

Analysis Report

09/24/00 10:23:27 PM

page 1

Method: METTRA Sample Name: CCB9

Operator: RJG

Run Time: 09/24/00 22:19:22

Comment: STL PITTSBURGH ICP METALS ANALYSIS-INSTRUMENT TRACEICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	BA	BE	CA	CD
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00044	.04217	-.00112	.00052	.00059	.02578	-.00002
SDev	.00014	.00242	.00076	.00002	.00005	.00426	.00005
%RSD	32.508	5.7288	68.194	4.5636	7.7183	16.518	226.34
#1	.00054	.04388	-.00166	.00051	.00056	.02277	.00001
#2	.00034	.04046	-.00058	.00054	.00062	.02879	-.00006
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.01000	.20000	.00500	5.0000	.00500
Low	-.01000	-.20000	-.01000	-.20000	-.00500	-5.0000	-.00500
Elem	CO	CR	CU	FE	MG	MN	MO
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	.00093	-.00019	.00204	.02152	.00060	.00523
SDev	.00034	.00021	.00017	.00386	.00122	.00004	.00115
%RSD	329.17	23.155	88.509	189.09	5.6761	7.0175	22.061
#1	-.00014	.00077	-.00031	.00478	.02066	.00057	.00604
#2	.00034	.00108	-.00007	-.00069	.02238	.00062	.00441
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.05000	.01000	.02500	.10000	5.0000	.01500	.04000
Low	-.05000	-.01000	-.02500	-.10000	-5.0000	-.01500	-.04000
Elem	NI	PB/1	PB/2	PB	SB/1	SB/2	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00169	.00209	.00185	.00193	-.00279	.00327	.00125
SDev	.00067	.00123	.00111	.00033	.00039	.00082	.00068
%RSD	39.574	58.953	60.005	17.183	13.943	25.144	54.129
#1	-.00216	.00122	.00264	.00217	-.00307	.00269	.00077
#2	-.00122	.00296	.00107	.00170	-.00252	.00385	.00173
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.04000			.00300			.06000
Low	-.04000			-.00300			-.06000
Elem	SE/1	SE/2	SE	TL	V	ZN	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00300	.00118	-.00022	-.00015	-.00037	.00066	
SDev	.00441	.00133	.00058	.00201	.00000	.00010	
%RSD	146.71	113.06	268.88	1310.9	.36160	15.857	
#1	-.00612	.00212	-.00063	-.00157	-.00037	.00073	
#2	.00011	.00024	.00019	.00127	-.00037	.00058	
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	
High			.00500	.01000	.05000	.02000	
Low			-.00500	-.01000	-.05000	-.02000	

Analysis Report

09/24/00 10:23:27 PM

6721432
page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19098	--	--	--	--	--	--
SDev	73.18555	--	--	--	--	--	--
%RSD	.3832196	--	--	--	--	--	--
#1	19046	--	--	--	--	--	--
#2	19149	--	--	--	--	--	--

Metals Preparation Log



STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238
412-870-8380

Submitted To Your Success

Method:

Matrix:

Start Time: 14:00

SDG:

Balance: 294877

Reagents:

Analyst:

Date: 9-23-00

Lot Number:

Lab Lot No. (book, page, line)

Reviewed By:

Date: 9-23-00

COI 210217 COI 220295

MS

10411: HND3
5nd cen. HND3
10413: HND3
10414: HND3
10415: HND3
10416: HND3
10417: HND3
10418: HND3
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10422: HND3
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10468: HND3
10469: HND3
10470: HND3
10471: HND3
10472: HND3
10473: HND3
10474: HND3
10475: HND3
10476: HND3
10477: HND3
10478: HND3
10479: HND3
10480: HND3
10481: HND3
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10488: HND3
10489: HND3
10490: HND3
10491: HND3
10492: HND3
10493: HND3
10494: HND3
10495: HND3
10496: HND3
10497: HND3
10498: HND3
10499: HND3
10500: HND3

Sample ID

Init Wt/Vol

Final Vol

Comments

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

1. DRG8

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

2. DRG8.5

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

3. DRG8D

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

4. DRG8K

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

5. DRG8P

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

6. DRG8S

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

7. DRG8D

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

8. DRG8P

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

9. DRG8S

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

10. DRG8D

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

11. DRG8P

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

12. DRG8S

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

Pre

Post

13. DRG8D

1.00g

100ml

76 9-23-00

Pre

Post

Pre

Post

Pre

Post

Pre

6721434

PSR024 9/23/00 11:06:09 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: GROVEP

METHOD: QM Inductively Coupled Plasma (6010B Trace)

<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>
13D CLP1	DKVJW	___	266117	399411	A-46-QM	C01220208	001		SOLID	0	3
13D CLP1	DKVK3	___	266118	399411	A-46-QM	C01220208	002		SOLID	0	3
13D CLP1	DKVK4	___	266119	399411	A-46-QM	C01220208	003		SOLID	0	3

RELINQUISHED BY

RECEIVED BY

DATE/TIME

9-23-00 13:15

9-23-00 14:45

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

6721435

**TCLP
METALS DATA**

STL-Pittsburgh**Cover Page - Inorganic Analysis Data Package**

Client ID	Lab Sample ID:
DF/24-A/0265/SDC/001	DKVJWT
DF/24-A/0265/SDC/002	DKVK3T
DF/24-A/0265/SDC/003	DKVK4T

Comments: UXB, DUNN FIELD TCLP'S
C01220208
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: _____

6721437

**TCLP
METALS
RESULTS**

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVJWT Client ID: DF/24-A/0265/SDC/001
Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.00013	B	1	CVAA	9/27/00	10:09

Comments: Lot#: C0I220208 Sample#: 1

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

6721439

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK3T Client ID: DF/24-A/0265/SDC/002
Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000060	B	1	CVAA	9/27/00	10:11

Comments: Lot#: C0I220208 Sample#: 2

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK4T Client ID: DF/24-A/0265/SDC/003
Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272
Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000089	B	1	CVAA	9/27/00	10:13

Comments: Lot#: C01220208 Sample#: 3

Version 4.10.2

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

Form I Equivalent

6721441

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVJWT Client ID: DF/24-A/0265/SDC/001
Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204
Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.030	0.50	0.12	B	1	ICP	9/27/00	19:37
Barium	493.41	0.00041	10.0	1.2	BE	1	ICP	9/27/00	19:37
Cadmium	228.80	0.0028	0.10	0.0041	B	1	ICP	9/27/00	19:37
Chromium	267.72	0.0038	0.50	0.0038	U	1	ICP	9/27/00	19:37
Lead	220.35	0.025	0.50	0.025	U	1	ICP	9/27/00	19:37
Selenium	196.03	0.067	0.25	0.067	U	1	ICP	9/27/00	19:37
Silver	328.07	0.0031	0.50	0.0031	U	1	ICP	9/27/00	19:37

Comments: Lot#: C0I220208 Sample#: 1

Version 4.10.2

U Result is less than the MDL

B Result is between MDL and RL

Form 1 Equivalent

STL-Pittsburgh
Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK3T **Client ID:** DF/24-A/0265/SDC/002
Matrix: Water **Units:** mg/L **Prep Date:** 9/27/00 **Prep Batch:** 0271204
Weight: NA **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.030	0.50	0.13	B	1	ICP	9/27/00	19:57
Barium	493.41	0.00041	10.0	1.4	BE	1	ICP	9/27/00	19:57
Cadmium	228.80	0.0028	0.10	0.0028	U	1	ICP	9/27/00	19:57
Chromium	267.72	0.0038	0.50	0.0038	U	1	ICP	9/27/00	19:57
Lead	220.35	0.025	0.50	0.025	U	1	ICP	9/27/00	19:57
Selenium	196.03	0.067	0.25	0.067	U	1	ICP	9/27/00	19:57
Silver	328.07	0.0031	0.50	0.0031	U	1	ICP	9/27/00	19:57

Comments: Lot#: C0I220208 Sample#: 2

Version 4.10.2

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

Form 1 Equivalent

6721443

STL-Pittsburgh

Metals Data Reporting Form

Sample Results

Lab Sample ID: DKVK4T Client ID: DF/24-A/0265/SDC/003
Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204
Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.7	0.030	0.50	0.14	B	1	ICP	9/27/00	20:00
Barium	493.41	0.00041	10.0	1.4	BE	1	ICP	9/27/00	20:00
Cadmium	228.80	0.0028	0.10	0.0097	B	1	ICP	9/27/00	20:00
Chromium	267.72	0.0038	0.50	0.0038	U	1	ICP	9/27/00	20:00
Lead	220.35	0.025	0.50	0.043	B	1	ICP	9/27/00	20:00
Selenium	196.03	0.067	0.25	0.067	U	1	ICP	9/27/00	20:00
Silver	328.07	0.0031	0.50	0.0031	U	1	ICP	9/27/00	20:00

Comments: Lot#: C0I220208 Sample#: 3

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 Verification Standard

Instrument: CVAAUnits: ug/LChart Number: 0927HGA.PRNAcceptable Range: 90% - 110%Standard Source: UltraStandard ID: 0057-082-10

Element	WL/ Mass	True Conc	ICV5-1 9/27/00 9:55 AM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.56	102.4								

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPUnits: ug/LChart Number: J00927C.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-073-3

Element	WL/ Mass	True Conc	ICV2-1 9/27/00 7:03 PM									
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	193.696	1000.0	1042.61	104.3								
Barium	493.409	1000.0	1005.39	100.5								
Cadmium	228.802	1000.0	1019.17	101.9								
Chromium	267.716	1000.0	1010.75	101.1								
Lead	220.353	1000.0	1001.00	100.1								
Selenium	196.026	1000.0	1056.97	105.7								
Silver	328.068	500.0	507.26	101.5								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAAUnits: ug/LChart Number: 0927HGA.PRNAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0057-082-12

Element	WL/ Mass	True Conc	CCV5-1 9/27/00 10:00 AM		CCV5-2 9/27/00 10:22 AM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.02	100.4	5.11	102.2				

6721447

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPUnits: ug/LChart Number: J00927C.ARCAcceptable Range: 90% - 110%Standard Source: Inorganic VenturesStandard ID: 0057-054-2

Element	WL/ Mass	True Conc	CCV2-1 9/27/00 7:43 PM		CCV2-2 9/27/00 8:06 PM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	193.696	5000.0	5173.60	103.5	5383.22	107.7				
Barium	493.409	5000.0	5089.39	101.8	5199.61	104.0				
Cadmium	228.802	5000.0	5035.49	100.7	5049.94	101.0				
Chromium	267.716	5000.0	5000.25	100.0	5085.76	101.7				
Lead	220.353	5000.0	5018.19	100.4	5079.56	101.6				
Selenium	196.026	5000.0	5336.33	106.7	5472.17	109.4				
Silver	328.068	1000.0	1015.12	101.5	1025.93	102.6				

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0927HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 9/27/00 9:57 AM		Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.0	U										

6721449

STL-Pittsburgh

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00927C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	ICB1 9/27/00 7:06 PM							
			Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	193.696	500	30.3	U						
Barium	493.409	10000	0.6	B						
Cadmium	228.802	100	2.8	U						
Chromium	267.716	500	3.8	U						
Lead	220.353	500	24.6	U						
Selenium	196.026	250	67.4	U						
Silver	328.068	500	3.1	U						

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: 0927HGA.PRN

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 9/27/00 10:02 AM	CCB2 9/27/00 10:24 AM				
			Found Q	Found Q	Found Q	Found Q	Found Q	Found Q
Mercury	253.7	0.2	0.1 B	0.0 U				

6721451

STL-Pittsburgh

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPUnits: ug/LChart Number: J00927C.ARC

Standard Source: _____

Standard ID: _____

Element	WL/ Mass	Report Limit	CCB1 9/27/00 7:47 PM		CCB2 9/27/00 8:10 PM					
			Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	193.696	500	30.3	U	30.3	U				
Barium	493.409	10000	1.1	B	1.2	B				
Cadmium	228.802	100	2.8	U	2.8	U				
Chromium	267.716	500	3.8	U	3.8	U				
Lead	220.353	500	24.6	U	24.6	U				
Selenium	196.026	250	67.4	U	67.4	U				
Silver	328.068	500	3.1	U	3.1	U				

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DL26DBTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000093	B	1	CVAA	9/27/00	10:08

Comments: _____

6721453

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DL29GBTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272Weight: NA Volume: 100 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.000045	0.00020	0.000064	B	1	CVAA	9/27/00	10:04

Comments: _____

Version 4.10.2

U Result is less than the MDL

Form 3 Equivalent

B Result is between MDL and RL

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DL26DBTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.696	0.030	0.50	0.18	B	1	ICP	9/27/00	19:24
Barium	493.409	0.00041	10.0	0.0011	B	1	ICP	9/27/00	19:24
Cadmium	228.802	0.0028	0.10	0.0028	U	1	ICP	9/27/00	19:24
Chromium	267.716	0.0038	0.50	0.0038	U	1	ICP	9/27/00	19:24
Lead	220.353	0.025	0.50	0.025	U	1	ICP	9/27/00	19:24
Selenium	196.026	0.067	0.25	0.067	U	1	ICP	9/27/00	19:24
Silver	328.068	0.0031	0.50	0.0031	U	1	ICP	9/27/00	19:24

Comments: _____

Version 4.10.2

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

Form 3 Equivalent

6721455

STL-Pittsburgh

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: DL43NBTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	193.696	0.030	0.50	0.030	U	1	ICP	9/27/00	19:17
Barium	493.409	0.00041	10.0	0.00041	U	1	ICP	9/27/00	19:17
Cadmium	228.802	0.0028	0.10	0.0028	U	1	ICP	9/27/00	19:17
Chromium	267.716	0.0038	0.50	0.0038	U	1	ICP	9/27/00	19:17
Lead	220.353	0.025	0.50	0.025	U	1	ICP	9/27/00	19:17
Selenium	196.026	0.067	0.25	0.067	U	1	ICP	9/27/00	19:17
Silver	328.068	0.0031	0.50	0.0031	U	1	ICP	9/27/00	19:17

Comments: _____

Version 4.10.2

U Result is less than the MDL

Form 3 Equivalent

B Result is between MDL and RL

STL-Pittsburgh
Metals Data Reporting Form

6721456

Interference Check Standard A

Instrument: ICP

Units: ug/L

Chart Number: J00927C.ARC

Acceptable Range: 0% - 0%

Standard Source: Inorganic Ventures

Standard ID: 0057-057-8

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 9/27/00 7:09 PM	Found	Found	Found	Found	Found
				Found					
Arsenic	193.696	500		121					
Barium	493.409	10000		2					
Cadmium	228.802	100		-3					
Chromium	267.716	500		3					
Lead	220.353	500		73					
Selenium	196.026	250		99					
Silver	328.068	500		-2					

STL-Pittsburgh

Metals Data Reporting Form

6721457

Interference Check Standard AB

Instrument: ICPUnits: ug/LChart Number: J00927C.ARCAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: 0057-059-1

Element	WL/ Mass	True Conc	ICSAB 9/27/00 7:13 PM							
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	193.696	1000	911.0	91.1						
Barium	493.409	500	466.5	93.3						
Cadmium	228.802	1000	947.3	94.7						
Chromium	267.716	500	441.6	88.3						
Lead	220.353	1000	914.6	91.5						
Selenium	196.026	1000	1006.9	100.7						
Silver	328.068	1000	949.4	94.9						

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DL29GCTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0270272Weight: 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	0.0025	0.0027	108.0		80-120	1	CVAA	9/27/00	10:06

Comments: _____

Version 4.10.2

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

Form 7 Equivalent

6721459

STL-Pittsburgh

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: DL43NCTMatrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204Weight: NA Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	193.696	2.0	2.2	112.0		80-120	1	ICP	9/27/00	19:21
Barium	493.409	2.0	1.9	96.5	B	80-120	1	ICP	9/27/00	19:21
Cadmium	228.802	0.050	0.050	99.8	B	80-120	1	ICP	9/27/00	19:21
Chromium	267.716	0.20	0.20	97.4	B	80-120	1	ICP	9/27/00	19:21
Lead	220.353	0.50	0.48	96.0	B	80-120	1	ICP	9/27/00	19:21
Selenium	196.026	2.0	2.2	112.2		80-120	1	ICP	9/27/00	19:21
Silver	328.068	0.050	0.049	98.4	B	80-120	1	ICP	9/27/00	19:21

Comments: _____

Version 4.10.2

STL Pittsburgh

U Result is less than the MDL

B Result is between MDL and RL

Form 7 Equivalent

6025

STL-Pittsburgh

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: DKVJWPTOriginal Sample ID: DKVJWT Client ID: DF/24-A/0265/SDC/001Matrix: Water Units: mg/L Prep Date: 9/27/00 Prep Batch: 0271204Weight: 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
Arsenic	193.696	0.12	B	0.15	U	43.9 %	1	5	ICP	9/27/00	19:37	9/27/00	19:40
Barium	493.409	1.2	B	0.65	B E		1	5	ICP	9/27/00	19:37	9/27/00	19:40
Cadmium	228.802	0.0041	B	0.014	U		1	5	ICP	9/27/00	19:37	9/27/00	19:40
Chromium	267.716	0.0038	U	0.019	U		1	5	ICP	9/27/00	19:37	9/27/00	19:40
Lead	220.353	0.025	U	0.12	U		1	5	ICP	9/27/00	19:37	9/27/00	19:40
Selenium	196.026	0.067	U	0.34	U		1	5	ICP	9/27/00	19:37	9/27/00	19:40
Silver	328.068	0.0031	U	0.016	U		1	5	ICP	9/27/00	19:37	9/27/00	19:40

Comments: _____

Version 4.10.2

U Result is less than the MDL

Form 9 Equivalent

B Result is between MDL and RL

E Serial dilution percent difference not within limits

6721461

STL-Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA

Units: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Mercury	253.70	0.2	0.045	3/20/00

STL-Pittsburgh

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Arsenic	193.70	500	30.3	4/1/00
Barium	493.41	10000	0.41	4/1/00
Cadmium	228.80	100	2.8	4/1/00
Chromium	267.72	500	3.8	4/1/00
Lead	220.35	500	24.6	4/1/00
Selenium	196.03	250	67.4	4/1/00
Silver	328.07	500	3.1	4/1/00

6721463

STL-Pittsburgh

Metals Data Reporting Form

Inter-Element Correction FactorsInstrument: ICPDate of IEC's: 9/20/00

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	As(0.007861), Mn(0.000018), Pb(0.000719)
Antimony	206.838	Ni(-0.000528), Pb(-0.001408), Sn(-0.004161)
Arsenic	193.696	Cd(0.011217)
Barium	493.409	Co(0.000449)
Beryllium	313.042	Cd(0.008648)
Cadmium	228.802	Co(0.002996)
Chromium	267.716	Pb(-0.000767), Sb(0.009005), V(-0.002296)
Cobalt	228.616	Al(-0.013948), B(0.00168), Cd(-0.004424), Cu(-0.000974), Pb(-0.026155), Sb(-0.004281), Tl(0.008568)
Copper	324.754	Zn(0.00414)
Iron	259.94	Ag(-0.000242), As(0.001058), B(-0.001884), Cd(-0.000046), Cu(-0.000114), Mn(-0.00029), Mo(-0.000129), Pb(0.00019), Se(-0.003038), Sn(-0.000176), Tl(0.011416), Zn(0.000091)
Manganese	257.61	Ag(0.000185), Tl(-0.007608)
Molybdenum	202.03	Al(0.009881), Cr(-0.000204), Mn(-0.000334), Sb(0.005016), V(-0.013194)
Nickel	231.604	Cd(-0.000482), Sb(-0.01006), Zn(0.00326)
Tin	189.989	Sb(0.002501)
Titanium	334.941	Co(0.001561), Fe(-0.003248), Sb(0.001256), Sn(0.003314)
Vanadium	292.402	Ag(-0.004417), Al(0.014581), As(0.015197), Be(0.002162), Cd(0.000076), Cr(0.000544), Sb(-0.002921), Si(-0.011682), Tl(0.006485), Zn(-0.0046)

STL-Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: CVAAUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Mercury	253.70	10	1/15/00

6721465

STL-Pittsburgh

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPUnits: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Arsenic	193.70	100000	7/8/00
Barium	493.41	100000	7/8/00
Cadmium	228.80	100000	7/8/00
Chromium	267.72	100000	7/8/00
Lead	220.35	100000	7/8/00
Selenium	196.03	100000	7/8/00
Silver	328.07	2000	7/8/00

Preparation LogPreparation Batch: 0270272 Instrument: CVAA Matrix: Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DL26DBT	9/27/00	NA	100	NA
DL29GBT	9/27/00	NA	100	NA
DL29GCT	9/27/00	NA	100	NA
DKVJWT	9/27/00	NA	100	NA
DKVK3T	9/27/00	NA	100	NA
DKVK4T	9/27/00	NA	100	NA

STL-Pittsburgh

6721467

Metals Data Reporting Form**Preparation Log**

Preparation Batch: 0271204 **Instrument:** ICP **Matrix:** Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
DL26DBT	9/27/00	NA	50	NA
DL43NBT	9/27/00	NA	50	NA
DL43NCT	9/27/00	NA	50	NA
DKVJWT	9/27/00	NA	50	NA
DKVK3T	9/27/00	NA	50	NA
DKVK4T	9/27/00	NA	50	NA

Metals Data Reporting Form

Instrument Runlog

Instrument: CVAAChart Number: 0927HGA.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std1Rep1		9/27/00	9:43
Std2Rep1		9/27/00	9:45
Std3Rep1		9/27/00	9:46
Std4Rep1		9/27/00	9:49
Std5Rep1		9/27/00	9:51
Std6Rep1		9/27/00	9:52
ICV5-1		9/27/00	9:55
ICB1		9/27/00	9:57
ZZZZZZ		9/27/00	9:59
CCV5-1		9/27/00	10:00
CCB1		9/27/00	10:02
DL29GBT		9/27/00	10:04
DL29GCT		9/27/00	10:06
DL26DBT		9/27/00	10:08
DKVJWT	DF/24-A/0265/SDC/001	9/27/00	10:09
DKVK3T	DF/24-A/0265/SDC/002	9/27/00	10:11
DKVK4T	DF/24-A/0265/SDC/003	9/27/00	10:13
ZZZZZZ		9/27/00	10:16
ZZZZZZ		9/27/00	10:18
ZZZZZZ		9/27/00	10:19
ZZZZZZ		9/27/00	10:21
CCV5-2		9/27/00	10:22
CCB2		9/27/00	10:24
ZZZZZZ		9/27/00	10:26
ZZZZZZ		9/27/00	10:27
ZZZZZZ		9/27/00	10:29
ZZZZZZ		9/27/00	10:31
ZZZZZZ		9/27/00	10:32
ZZZZZZ		9/27/00	10:34
ZZZZZZ		9/27/00	10:36
ZZZZZZ		9/27/00	10:37
ZZZZZZ		9/27/00	10:40
ZZZZZZ		9/27/00	10:41
ZZZZZZ		9/27/00	10:43
ZZZZZZ		9/27/00	10:45
ZZZZZZ		9/27/00	10:47
ZZZZZZ		9/27/00	10:49
ZZZZZZ		9/27/00	10:51
ZZZZZZ		9/27/00	10:53

6721469

STL-Pittsburgh
Metals Data Reporting Form

Instrument Runlog

Instrument: CVAAChart Number: 0927HGA.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		9/27/00	10:55
ZZZZZZ		9/27/00	10:56
ZZZZZZ		9/27/00	10:57
ZZZZZZ		9/27/00	10:59
ZZZZZZ		9/27/00	11:01
ZZZZZZ		9/27/00	11:02
ZZZZZZ		9/27/00	11:05
ZZZZZZ		9/27/00	11:07
ZZZZZZ		9/27/00	11:10
ZZZZZZ		9/27/00	11:12
ZZZZZZ		9/27/00	11:14
ZZZZZZ		9/27/00	11:16
ZZZZZZ		9/27/00	11:17
ZZZZZZ		9/27/00	11:19
ZZZZZZ		9/27/00	11:21
ZZZZZZ		9/27/00	11:22
ZZZZZZ		9/27/00	11:25
ZZZZZZ		9/27/00	11:26
ZZZZZZ		9/27/00	11:28
ZZZZZZ		9/27/00	11:29
ZZZZZZ		9/27/00	11:31
ZZZZZZ		9/27/00	11:33
ZZZZZZ		9/27/00	11:35
ZZZZZZ		9/27/00	11:36
ZZZZZZ		9/27/00	11:38

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPChart Number: J00927C.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD1		9/27/00	18:53
STD5A		9/27/00	18:57
STD5B		9/27/00	19:00
ICV2-1		9/27/00	19:03
ICB1		9/27/00	19:06
ICSA		9/27/00	19:09
ICSAB		9/27/00	19:13
DL43NBT		9/27/00	19:17
DL43NCT		9/27/00	19:21
DL26DBT		9/27/00	19:24
ZZZZZZ		9/27/00	19:27
ZZZZZZ		9/27/00	19:31
ZZZZZZ		9/27/00	19:34
DKVJWT	DF/24-A/0265/SDC/001	9/27/00	19:37
DKVJWPT	DF/24-A/0265/SDC/001	9/27/00	19:40
CCV2-1		9/27/00	19:43
CCB1		9/27/00	19:47
ZZZZZZ		9/27/00	19:50
ZZZZZZ		9/27/00	19:53
DKVK3T	DF/24-A/0265/SDC/002	9/27/00	19:57
DKVK4T	DF/24-A/0265/SDC/003	9/27/00	20:00
ZZZZZZ		9/27/00	20:03
CCV2-2		9/27/00	20:06
CCB2		9/27/00	20:10

6721471

**TCLP
METALS
RAW DATA**

Eum Faust

COI220208

TCUP 6721472

Analysis Report

Averages

09/27/00 08:50:11 PM

page 2

EUF 9-2700

601CB

#	Sample Name	AG	AS	BA	CD	CR	PB
1	STD1	-.0007	-.00039	-.00005	.00003	.00025	.0006
2	STD5A	.26829	.51644	3.99043	.89063	3.73064	.25134
3	STD5B						
4	ICV2-1 0057-073-3	.50726	1.0426	1.0054	1.0192	1.0108	1.0010
5	ICB1	-.00072	-.00007	.00057	.00094	.00160	-.01160
6	ICSA 0057-057-8	-.00208	.12123	.00202	-.00258	.00321	.07249
7	ICSAB 0057-059-1	.94940	.91101	.46652	.94725	.44159	.91456
8	DL43NTB	-.00034	.01050	.00032	.00004	-.00093	-.02134
9	DL43NTC	.04921	2.2406	1.9297	.04992	.19482	.47990
10	DL26DTB	.00001	.17751	.00107	-.00208	.00321	-.02127
11	DKWMTT	-.00261	.16207	.10971	.02628	.32074	-.00187
12	DKWMXT	-.00107	.14953	.21512	.00464	.20004	-.00965
13	DKWNOT	-.00108	.10002	.27129	.00142	.01635	.00889
14	DKVJWT	-.00272	.12131	1.1618	.00414	.00200	.01279
15	DKVJWP5T	-.00034	.01460	.13042	.00078	.00013	-.00805
16	CCV2-1 0057-054-2	1.0151	5.1736	5.0894	5.0355	5.0003	5.0182
17	CCB1	.00073	-.00015	.00107	-.00010	.00067	-.01165
18	DKVJWTS	.04823	2.1600	3.1088	.05371	.18490	.48037
19	DKVJWTD	.04828	2.2962	3.1584	.05337	.18731	.49037
20	DKVK3T	-.00300	.13420	1.3851	.00250	.00321	-.01150
21	DKVK4T	-.00159	.13797	1.4023	.00973	.00254	.04310
22	DKXPWT	-.00241	.20043	.21094	-.00215	.00053	-.00440
23	CCV2-2	1.0259	5.3832	5.1996	5.0499	5.0858	5.0796
24	CCB2	-.00071	.00180	.00120	.00067	.00187	-.00584

VOID: MS/MSD
 digested
 incorrectly.
 Sample DKXPWT
 will be
 redigested
 with the
 correct MS/MSD.
 EUF 9-2700

#	Sample Name	SE
1	STD1	-.00144
2	STD5A	.49489
3	STD5B	
4	ICV2-1 0057-073-3	1.0570
5	ICB1	.06448
6	ICSA 0057-057-8	.09901
7	ICSAB 0057-059-1	1.0069
8	DL43NTB	.00407
9	DL43NTC	2.2446
10	DL26DTB	.01318
11	DKWMTT	.04952
12	DKWMXT	.02635
13	DKWNOT	.00226
14	DKVJWT	.03805
15	DKVJWP5T	.03211
16	CCV2-1 0057-054-2	5.3363
17	CCB1	.05040
18	DKVJWTS	2.2252
19	DKVJWTD	2.2987
20	DKVK3T	.03327
21	DKVK4T	.04303
22	DKXPWT	.01026
23	CCV2-2	5.4722
24	CCB2	.02320

VOID: MS/MSD
 digested
 incorrectly.
 Sample DKXPWT
 will be
 redigested with
 the correct MS/MSD.
 EUF 9-2700

6721473

Analysis Report

Summary

09/27/00 08:50:11 PM

page 1

9MF 9-22-00

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1	J00927C	QUANMET	09/27/00	18:53		X	IR
2	STD5A	J00927C	QUANMET	09/27/00	18:57		X	IR
3	STD5B	J00927C	QUANMET	09/27/00	19:00		X	IR
4	ICV2-1 0057-073-3	J00927C	QUANMET	09/27/00	19:03	EMF	S	CONC
5	ICB1	J00927C	QUANMET	09/27/00	19:06	EMF	S	CONC
6	ICSA 0057-057-8	J00927C	QUANMET	09/27/00	19:09	EMF	Q	CONC
7	ICSAB 0057-059-1	J00927C	QUANMET	09/27/00	19:13	EMF	Q	CONC
8	DL43NTB	J00927C	QUANMET	09/27/00	19:17	EMF	S	CONC
9	DL43NTC	J00927C	QUANMET	09/27/00	19:21	EMF	S	CONC
10	DL26DTB	J00927C	QUANMET	09/27/00	19:24	EMF	S	CONC
11	DKWMTT	J00927C	QUANMET	09/27/00	19:27	EMF	S	CONC
12	DKWMXT	J00927C	QUANMET	09/27/00	19:31	EMF	S	CONC
13	DKWNOT	J00927C	QUANMET	09/27/00	19:34	EMF	S	CONC
14	DKVJWT	J00927C	QUANMET	09/27/00	19:37	EMF	S	CONC
15	DKVJWP5T	J00927C	QUANMET	09/27/00	19:40	EMF	S	CONC
16	CCV2-1 0057-054-2	J00927C	QUANMET	09/27/00	19:43	EMF	S	CONC
17	CCB1	J00927C	QUANMET	09/27/00	19:47	EMF	S	CONC
18	DKVJWTS	J00927C	QUANMET	09/27/00	19:50	EMF	S	CONC
19	DKVJWTD	J00927C	QUANMET	09/27/00	19:53	EMF	S	CONC
20	DKVK3T	J00927C	QUANMET	09/27/00	19:57	EMF	S	CONC
21	DKVK4T	J00927C	QUANMET	09/27/00	20:00	EMF	S	CONC
22	DKXPWT	J00927C	QUANMET	09/27/00	20:03	EMF	S	CONC
23	CCV2-2	J00927C	QUANMET	09/27/00	20:06	EMF	S	CONC
24	CCB2	J00927C	QUANMET	09/27/00	20:10	EMF	S	CONC

Standardization Rpt.

09/27/00 06:56:57 PM

page 1

Method: QUANMET Standard: STD1

Run Time: 09/27/00 18:53:50

Elem	AG	AL	AS	B_	BA	BE	CA
Avge	-.00070	.00800	-.00040	.00087	-.00006	.00240	.00311
SDev	.00026	.00118	.00130	.00074	.00018	.00016	.00069
%RSD	36.886	14.720	324.04	85.017	300.67	6.8041	22.173

#1	-.00100	.00640	.00020	.00180	-.00012	.00220	.00234
#2	-.00080	.00800	-.00040	.00094	-.00020	.00240	.00376
#3	-.00060	.00840	.00080	.00074	-.00012	.00240	.00272
#4	-.00040	.00920	-.00220	.00000	.00020	.00260	.00361

Elem	CD	CO	CR	CU	FE	K_	LI
Avge	.00004	.00010	.00025	.00015	.00080	-.02740	-.00012
SDev	.00014	.00048	.00055	.00034	.00049	.01070	.00025
%RSD	358.28	476.10	220.30	227.71	61.237	39.068	200.00

#1	.00000	.00020	.00000	.00000	.00040	-.03520	.00000
#2	-.00008	.00040	.00080	.00020	.00040	-.02700	-.00049
#3	.00000	-.00060	-.00040	-.00020	.00140	-.03500	.00000
#4	.00024	.00040	.00060	.00060	.00100	-.01240	.00000

Elem	MG	MN	MO	NA	NI	PB	SB
Avge	.00005	.00015	.00005	.06450	-.00079	.00060	-.00015
SDev	.00150	.00019	.00019	.00176	.00141	.00059	.00030
%RSD	3000.0	127.66	382.97	2.7327	178.37	98.131	200.00

#1	-.00120	.00000	-.00020	.06240	-.00275	.00020	.00020
#2	.00080	.00020	.00000	.06540	-.00039	.00100	-.00040
#3	-.00120	.00040	.00020	.06380	.00060	.00000	-.00040
#4	.00180	.00000	.00020	.06640	-.00062	.00120	.00000

Elem	SE	SI	SN	SR	TI	TL	V_
Avge	-.00145	.00025	.00000	.00000	.00185	.00040	.00000
SDev	.00079	.00019	.00073	.00000	.00019	.00085	.00000
%RSD	54.449	76.594	.00000	.00000	10.351	212.13	.00000

#1	-.00240	.00040	.00080	.00000	.00200	-.00080	.00000
#2	-.00180	.00000	.00040	.00000	.00160	.00060	.00000
#3	-.00080	.00020	-.00040	.00000	.00180	.00060	.00000
#4	-.00080	.00040	-.00080	.00000	.00200	.00120	.00000

Elem	ZN
Avge	.00047
SDev	.00030
%RSD	64.151

#1	.00012
#2	.00072
#3	.00032
#4	.00072

6721475

Standardization Rpt.

09/27/00 07:00:09 PM

page 1

Method: QUANMET Standard: STD5A
 Run Time: 09/27/00 18:57:04

0057-058-10

Elem	AG	AS	B	BA	BE	CD	CO
Avge	.26830	.51645	.58322	3.9904	15.450	.89064	1.4507
SDev	.00082	.00876	.00674	.0541	.146	.00408	.0053
%RSD	.30735	1.6961	1.1560	1.3569	.94630	.45853	.36376

#1	.26740	.50600	.57627	3.9316	15.283	.89082	1.4442
#2	.26820	.51260	.58019	3.9654	15.392	.89267	1.4524
#3	.26820	.52500	.59202	4.0568	15.625	.88487	1.4496
#4	.26940	.52220	.58439	4.0080	15.499	.89419	1.4568

Elem	CR	CU	LI	MN	MO	NI	PB
Avge	3.7306	2.1975	3.9862	2.0071	.39610	1.7302	.25135
SDev	.0129	.0289	.0793	.0063	.00159	.0110	.00272
%RSD	.34456	1.3142	1.9884	.31432	.40077	.63637	1.0820

#1	3.7164	2.1662	3.9063	1.9998	.39420	1.7260	.25120
#2	3.7378	2.1852	3.9497	2.0064	.39540	1.7190	.25000
#3	3.7238	2.2338	4.0911	2.0070	.39760	1.7308	.24900
#4	3.7446	2.2048	3.9977	2.0152	.39720	1.7451	.25520

Elem	SB	SE	SI	SN	SR	TI	TL
Avge	.18565	.49490	.33700	.93280	7.7489	5.9784	.33260
SDev	.00184	.00997	.00412	.00049	.0919	.0453	.00502
%RSD	.98883	2.0143	1.2230	.05252	1.1857	.75753	1.5077

#1	.18380	.48100	.33100	.93220	7.6478	5.9254	.32520
#2	.18680	.50400	.33760	.93260	7.7086	5.9598	.33580
#3	.18760	.49500	.33960	.93320	7.8614	6.0288	.33560
#4	.18440	.49960	.33980	.93320	7.7777	5.9998	.33380

Elem	V	ZN
Avge	1.6107	1.5001
SDev	.0077	.0031
%RSD	.48011	.20393

#1	1.6006	1.4972
#2	1.6086	1.4988
#3	1.6174	1.5001
#4	1.6160	1.5044

Standardization Rpt.

09/27/00 07:03:21 PM

page 1

Method: QUANMET Standard: STD5B
Run Time: 09/27/00 19:00:15

0057-058-11

Elem	AL	CA	FE	K_	MG	NA
Avge	10.905	24.900	29.211	2.1825	7.2934	46.120
SDev	.061	.079	.109	.0170	.0436	.395
%RSD	.56253	.31581	.37321	.77926	.59799	.85712
#1	10.916	24.835	29.201	2.1880	7.3026	46.241
#2	10.816	24.875	29.061	2.1580	7.2312	45.561
#3	10.954	24.875	29.279	2.1974	7.3332	46.490
#4	10.932	25.014	29.303	2.1864	7.3064	46.190

672i477

Standardization

Report

09/27/00 07:03:22 PM

page 1

Method: QUANMET

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
AG	328.068	STD5A	STD1	7.27761	.005094	09/27/00 07:00:15
AL	308.215	STD5B	STD1	9.17726	-.073418	09/27/00 07:00:15
AS	193.696	STD5A	STD1	19.6420	.007857	09/27/00 07:00:15
B ₋	249.600	STD5A	STD1	17.2007	-.014975	09/27/00 07:00:15
BA	493.409	STD5A	STD1	2.50596	.000147	09/27/00 07:00:15
BE	313.042	STD5A	STD1	.648762	-.001557	09/27/00 07:00:15
CA	317.933	STD5B	STD1	4.01660	-.012487	09/27/00 07:00:15
CD	228.802	STD5A	STD1	11.3972	-.000436	09/27/00 07:00:15
CO	228.616	STD5A	STD1	6.92797	-.000693	09/27/00 07:00:15
CR	267.716	STD5A	STD1	2.68159	-.000670	09/27/00 07:00:15
CU	324.754	STD5A	STD1	4.54650	-.000682	09/27/00 07:00:15
FE	259.940	STD5B	STD1	3.42350	-.002739	09/27/00 07:00:15
K ₋	766.491	STD5B	STD1	45.2519	1.23990	09/27/00 07:00:15
LI	670.789	STD5A	STD1	2.50857	.000310	09/27/00 07:00:15
MG	279.079	STD5B	STD1	13.7112	-.000686	09/27/00 07:00:15
MN	257.610	STD5A	STD1	4.98102	-.000747	09/27/00 07:00:15
MO	202.030	STD5A	STD1	25.2493	-.001262	09/27/00 07:00:15
NA	588.995	STD5B	STD1	2.17128	-.140048	09/27/00 07:00:15
NI	231.604	STD5A	STD1	5.77391	.004568	09/27/00 07:00:15
PB	220.353	STD5A	STD1	38.7506	-.023250	09/27/00 07:00:15
SB	206.838	STD5A	STD1	53.8490	.008077	09/27/00 07:00:15
SE	196.026	STD5A	STD1	20.1471	.029213	09/27/00 07:00:15
SI	288.158	STD5A	STD1	29.3487	-.007337	09/27/00 07:00:15
SN	189.989	STD5A	STD1	10.7113	.000000	09/27/00 07:00:15
SR	409.552	STD5A	STD1	1.29051	.000000	09/27/00 07:00:15
TI	334.941	STD5A	STD1	1.67319	-.003095	09/27/00 07:00:15
TL	190.864	STD5A	STD1	60.4288	-.024172	09/27/00 07:00:15
V ₋	292.402	STD5A	STD1	6.11250	.000000	09/27/00 07:00:15
ZN	213.856	STD5A	STD1	6.68690	-.003127	09/27/00 07:00:15

Analysis Report

Emm Faust
Ref 9-27-00

09/27/00 07:06:33 PM

6721478
 page 1

Method: QUANMET Sample Name: ICV2-1 0057-073-3 Operator: EMF
 Run Time: 09/27/00 19:03:27
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50727	25.449	1.0426	.99444	1.0054	.98452	25.562
SDev	.00455	.105	.0229	.00168	.0054	.00474	.212
%RSD	.89693	.41448	2.1998	.16912	.53493	.48131	.83024

#1	.50321	25.352	1.0151	.99666	1.0029	.97892	25.373
#2	.51350	25.486	1.0647	.99432	1.0031	.98617	25.865
#3	.50765	25.581	1.0327	.99422	1.0134	.99007	25.528
#4	.50471	25.378	1.0580	.99257	1.0021	.98293	25.483

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.55000	27.500	1.1000	1.1000	1.1000	1.1000	27.500
Low	.45000	22.500	.90000	.90000	.90000	.90000	22.500

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0192	1.0012	1.0108	1.0037	26.285	24.857	1.0170
SDev	.0058	.0088	.0062	.0053	.127	.378	.0095
%RSD	.56965	.88304	.61653	.53081	.48225	1.5218	.93830

#1	1.0129	.99192	1.0062	1.0008	26.137	24.481	1.0152
#2	1.0266	1.0127	1.0158	1.0008	26.417	25.106	1.0083
#3	1.0169	1.0030	1.0164	1.0117	26.359	24.590	1.0306
#4	1.0202	.99744	1.0046	1.0017	26.226	25.251	1.0139

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	1.1000	27.500	27.500	1.1000
Low	.90000	.90000	.90000	.90000	22.500	22.500	.90000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.528	1.0059	.98055	25.179	1.0122	1.0010	1.0362
SDev	.166	.0057	.00864	.190	.0239	.0343	.0396
%RSD	.65020	.56963	.88060	.75503	2.3569	3.4288	3.8258

#1	25.401	.99993	.97674	25.098	.98474	.95830	1.0844
#2	25.617	1.0130	.98183	25.061	1.0107	.98966	1.0524
#3	25.716	1.0080	.99192	25.463	1.0430	1.0203	1.0095
#4	25.376	1.0029	.97170	25.093	1.0103	1.0358	.99864

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	27.500	1.1000	1.1000	27.500	1.1000	1.1000	1.1000
Low	22.500	.90000	.90000	22.500	.90000	.90000	.90000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0570	1.0095	.98681	.99884	.98894	4.8532	.99326
SDev	.0444	.0074	.01196	.00470	.00466	.0886	.00403
%RSD	4.2000	.73620	1.2117	.47079	.47091	1.8250	.40583

#1	H1.1079	1.0021	.98271	.99536	.98476	4.7583	.98831
#2	1.0564	1.0198	.98474	.99805	.99245	4.9725	.99818

6721479

Analysis Report

09/27/00 07:06:33 PM

page 2

#3	.99978	1.0080	1.0038	1.0057	.99346	4.8403	.99342
#4	1.0638	1.0080	.97594	.99624	.98509	4.8418	.99313
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	1.1000	1.1000	1.1000	1.1000	5.5000	1.1000
Low	.90000	.90000	.90000	.90000	.90000	4.5000	.90000

Elem	ZN
Units	ppm
Avge	.99920
SDev	.00421
%RSD	.42132

#1	.99536
#2	1.0006
#3	1.0045
#4	.99631

Errors	LC Pass
High	1.1000
Low	.90000

Analysis Report

09/27/00 07:09:45 PM

page 1

Method: QUANMET Sample Name: ICB1

Operator: EMF

Run Time: 09/27/00 19:06:40

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00072	.00826	-.00008	.00765	.00057	.00023	.01843
SDev	.00168	.00238	.02665	.01019	.00015	.00006	.00385
%RSD	232.04	28.818	35146.	133.26	25.641	28.466	20.880
#1	.00073	.00545	.01174	.00324	.00065	.00026	.02002
#2	.00073	.00740	.00777	.02287	.00065	.00026	.02158
#3	-.00218	.01100	-.03938	.00325	.00035	.00013	.01284
#4	-.00218	.00918	.01956	.00123	.00065	.00026	.01927
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00094	.00103	.00161	.00114	.00565	.07919	-.00006
SDev	.00050	.00307	.00141	.00075	.00180	.43695	.00074
%RSD	52.764	296.96	87.695	65.408	31.864	551.77	1250.0
#1	.00078	.00207	.00309	.00114	.00411	.47967	.00031
#2	.00044	.00485	.00255	.00205	.00548	.40727	.00031
#3	.00093	-.00208	.00040	.00114	.00479	-.42537	.00031
#4	.00162	-.00070	.00040	.00023	.00822	-.14481	-.00117
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00617	.00000	.00126	.00152	-.00022	-.01160	.00003
SDev	.00853	.00050	.00505	.00657	.00261	.01346	.01608
%RSD	138.18	26028.	399.76	432.05	1181.6	116.00	59960.
#1	.00754	.00025	.00884	-.00369	-.00134	.00781	.00808
#2	.01303	.00025	-.00126	.00456	.00273	-.01540	-.01339
#3	-.00617	.00025	-.00126	-.00413	-.00323	-.01554	.01879
#4	.01028	-.00075	-.00126	.00934	.00096	-.02330	-.01337
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06449	.00734	-.01821	.00013	.00084	-.03633	.00033
SDev	.02381	.00758	.01924	.00015	.00042	.06320	.00059
%RSD	36.918	103.25	105.67	115.47	50.332	173.96	182.25
#1	.04937	.01614	-.03210	.00026	.00125	-.08466	.00012
#2	.09370	.01029	-.01720	.00000	.00092	-.02428	.00121

6721481

Analysis Report

09/27/00 07:09:45 PM

page 2

#3	.07355	.00440	.00865	.00026	.00025	.04831	-.00002
#4	.04133	-.00147	-.03219	.00000	.00092	-.08469	-.00002

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge .00019
SDev .00110
%RSD 566.81

#1	.00112
#2	-.00102
#3	.00113
#4	-.00046

Errors	LC Pass
High	.02000
Low	-.02000

Analysis Report

QC Standard

09/27/00 07:12:58 PM

page 1

Method: QUANMET Sample Name: ICSA 0057-057-8 Operator: EMF
 Run Time: 09/27/00 19:09:52
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem Units	AG ppm	AL ppm	AS ppm	B_ ppm	BA ppm	BE ppm	CA ppm
Avge	-.00208	494.63	.12124	-.03596	.00203	.00003	482.32
SDev	.00135	2.52	.16954	.01840	.00015	.00012	.87
%RSD	64.778	.50934	139.84	51.160	7.3571	382.97	.18116
#1	-.00388	493.32	.07846	-.02598	.00215	.00013	483.30
#2	-.00091	496.89	.26229	-.02692	.00215	-.00013	482.17
#3	-.00235	496.60	.24484	-.02739	.00186	.00000	482.62
#4	-.00119	491.74	-.10063	-.06354	.00195	.00013	481.21
Errors Value Range	NOCHECK	QC Pass 500.00 20.000	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass 500.00 20.000
Elem Units	CD ppm	CO ppm	CR ppm	CU ppm	FE ppm	K_ ppm	LI ppm
Avge	-.00259	.01286	.00322	-.00009	185.15	-.01358	.00132
SDev	.00259	.00444	.00202	.00115	.57	.51582	.00092
%RSD	99.882	34.527	62.900	1216.2	.30927	3799.6	69.916
#1	.00052	.01458	.00469	.00128	185.24	.49777	.00267
#2	-.00156	.00627	.00308	-.00143	185.48	-.11766	.00111
#3	-.00402	.01459	.00040	-.00050	185.56	-.68783	.00061
#4	-.00530	.01598	.00469	.00027	184.31	.25341	.00090
Errors Value Range	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass 200.00 20.000	NOCHECK	NOCHECK
Elem Units	MG ppm	MN ppm	MO ppm	NA ppm	NI ppm	PB ppm	SB ppm
Avge	486.21	.00556	-.00006	-.00228	-.00155	.07250	-.01335
SDev	2.18	.00057	.00504	.00330	.01527	.04356	.02478
%RSD	.44736	10.201	9005.5	144.54	983.81	60.084	185.64
#1	485.88	.00535	-.00762	-.00239	-.00163	.12188	-.03500
#2	487.81	.00536	.00251	.00239	.01705	.09580	-.03463
#3	487.88	.00639	.00252	-.00499	-.00127	.04202	.00820
#4	483.25	.00512	.00236	-.00413	-.02036	.03029	.00802
Errors Value Range	QC Pass 500.00 20.000	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Elem Units	SE ppm	SI ppm	SN ppm	SR ppm	TI ppm	TL ppm	V_ ppm
Avge	.09902	.08658	-.03014	.01329	-.02075	.34268	.00001
SDev	.01813	.00000	.04277	.00029	.00017	.12137	.00006
%RSD	18.312	.00000	141.93	2.1782	.80645	35.419	967.92
#1	.09224	.08658	.02602	.01315	-.02083	.51991	-.00009
#2	.07686	.08658	-.07676	.01366	-.02083	.26340	.00004

6721483

Analysis Report

QC Standard

09/27/00 07:12:58 PM

page 2

#3	.11740	.08658	-.02730	.01336	-.02050	.32285	.00003
#4	.10958	.08658	-.04251	.01300	-.02083	.26454	.00004

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	ZN
Units	ppm
Avge	.00227
SDev	.00112
%RSD	49.449

#1	.00078
#2	.00339
#3	.00210
#4	.00282

Errors	NOCHECK
Value	
Range	

Analysis Report

QC Standard

09/27/00 07:16:11 PM

Method: QUANMET Sample Name: ICSAB 0057-059-1 Operator: EMF
 Run Time: 09/27/00 19:13:05
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94940	495.20	.91102	.89349	.46652	.45349	477.85
SDev	.00524	1.84	.11100	.00216	.00192	.00145	1.93
%RSD	.55153	.37209	12.185	.24187	.41072	.32038	.40309

#1	.94674	492.70	.95764	.89220	.46369	.45200	477.76
#2	.94680	495.96	Q.78641	.89257	.46770	.45381	476.16
#3	.94681	495.10	.85995	.89673	.46699	.45278	476.92
#4	.95726	497.03	1.0401	.89248	.46770	.45536	480.57

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	500.00	1.0000	1.0000	.50000	.50000	500.00
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94726	.44693	.44159	.48697	184.57	9.7133	1.0215
SDev	.00570	.00262	.00278	.00277	.55	.5422	.0057
%RSD	.60187	.58527	.62986	.56853	.29698	5.5824	.55465

#1	.93924	.44523	.43905	.48351	184.15	8.9689	1.0148
#2	.95028	.44519	.44280	.48808	184.35	9.9011	1.0265
#3	.95216	.44657	.43958	.48626	184.41	9.7292	1.0189
#4	.94735	.45073	.44495	.49002	185.38	10.254	1.0260

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	.50000	.50000	.50000	200.00	10.000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	483.80	.45372	.88612	10.074	.87024	.91456	.98572
SDev	1.62	.00092	.00586	.070	.01916	.01354	.06482
%RSD	.33451	.20276	.66133	.69849	2.2014	1.4807	6.5760

#1	481.87	.45364	.89112	9.9751	.85594	.91829	.95601
#2	484.20	.45364	.88104	10.135	.88418	.93136	.92406
#3	483.36	.45267	.88105	10.076	.88916	.90897	1.0747
#4	485.75	.45492	.89128	10.110	.85168	.89964	.98813

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	500.00	.50000	1.0000	10.000	1.0000	1.0000	1.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0069	1.0794	.86585	.93467	.88370	9.1203	.44883
SDev	.0299	.0337	.04414	.00351	.00289	.1468	.00275
%RSD	2.9650	3.1220	5.0983	.37608	.32722	1.6096	.61227

#1	.98347	1.0310	.84103	.92968	.88102	9.0859	.44675
#2	1.0485	1.0838	.81736	.93604	.88370	9.1682	.44785

6721485

Analysis Report

QC Standard

09/27/00 07:16:11 PM

page 2

#3	1.0084	1.0955	.91226	.93510	.88236	9.2884	.44784
#4	.98719	1.1073	.89277	.93785	.88771	8.9388	.45288

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	1.0000	10.000	.50000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem ZN
Units ppm
Avge .93119
SDev .00636
%RSD .68264

#1 .92849
#2 .92860
#3 .92701
#4 .94067

Errors QC Pass
Value 1.0000
Range 20.000

Analysis Report

09/27/00 07:20:31 PM

page 1

Method: QUANMET Sample Name: DL43NTB

Operator: EMF

Run Time: 09/27/00 19:17:25

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00035	.03115	.01051	.01602	.00032	.00003	.03074
SDev	.00183	.01357	.01967	.00001	.00024	.00006	.00845
%RSD	524.63	43.568	187.22	.08566	73.105	226.62	27.476
#1	-.00072	.04767	-.00432	.01603	.00035	.00000	.03774
#2	-.00072	.03300	.03115	.01602	.00015	.00000	.03240
#3	-.00216	.01463	.02337	.01600	.00015	-.00001	.01851
#4	.00221	.02929	-.00818	.01601	.00065	.00012	.03429
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK
High	.50000		.50000		10.000		
Low	-.50000		-.50000		-10.000		
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	-.00139	-.00094	.00091	.01404	.08824	.00001
SDev	.00387	.00329	.00208	.00087	.00463	.40403	.00048
%RSD	8826.6	236.88	220.89	96.015	32.950	457.87	6469.5
#1	-.00309	-.00484	-.00335	.00022	.01986	-.28056	-.00069
#2	-.00348	-.00345	-.00174	.00023	.01507	-.20816	.00031
#3	.00386	.00068	-.00014	.00114	.00890	.27151	.00010
#4	.00289	.00207	.00147	.00205	.01233	.57017	.00031
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.10000		.50000				
Low	-.10000		-.50000				
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02879	.00000	.00000	-.00261	-.00002	-.02134	.02421
SDev	.00755	.00050	.00252	.00386	.00500	.00753	.02562
%RSD	26.227	14185.	139130.	148.14	23577.	35.292	105.81
#1	.02125	.00025	-.00126	-.00586	.00015	-.03117	-.00267
#2	.03222	.00025	-.00126	-.00543	-.00621	-.02331	.04026
#3	.02399	-.00075	-.00126	-.00152	-.00005	-.01548	.00806
#4	.03771	.00025	.00379	.00239	.00602	-.01540	.05121
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK
High						.50000	
Low						-.50000	
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00407	.01177	.01028	.00000	.00100	-.00923	.00244
SDev	.00893	.00565	.01562	.00000	.00063	.03870	.00285
%RSD	219.18	48.009	151.97	.00000	63.099	419.38	116.54
#1	.00107	.00440	-.00429	.00000	.00059	-.02435	-.00002
#2	-.00701	.01027	.03016	.00000	.00059	-.03640	-.00002

6721487

Analysis Report

09/27/00 07:20:31 PM

page 2

#3	.01312	.01620	.01503	.00000	.00092	.04820	.00487
#4	.00910	.01620	.00021	.00000	.00192	-.02436	.00494
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.25000						
Low	-.25000						
Elem	ZN						
Units	ppm						
Avge	-.00047						
SDev	.00159						
%RSD	342.03						
#1	-.00179						
#2	.00169						
#3	-.00154						
#4	-.00022						
Errors	NOCHECK						
High							
Low							

Analysis Report

09/27/00 07:24:32 PM

page 1

Method: QUANMET Sample Name: DL43NTC

Operator: EMF

Run Time: 09/27/00 19:21:27

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04921	2.0105	2.2406	.94505	1.9297	.04740	L.34687
SDev	.00075	.0220	.1203	.02313	.0199	.00051	.00484
%RSD	1.5202	1.0930	5.3687	2.4476	1.0289	1.0846	1.3957

#1	.04809	1.9785	H2.4079	.92677	1.9145	.04686	L.34584
#2	.04959	2.0205	2.2424	.96544	1.9437	.04762	L.34060
#3	.04959	2.0278	2.1795	.96464	1.9498	.04801	L.34924
#4	.04957	2.0152	2.1325	.92334	1.9110	.04711	L.35180

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Low
High	.06000	2.4000	2.4000		2.4000	.06000	60.000
Low	.04000	1.6000	1.6000		1.6000	.04000	40.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04993	.47875	.19483	.25042	1.0556	L.10634	1.0090
SDev	.00290	.00429	.00116	.00229	.0082	.57650	.0138
%RSD	5.8052	.89638	.59481	.91400	.77542	542.12	1.3697

#1	.05294	.47493	.19429	.24814	1.0435	L.38012	.99896
#2	.05025	.47909	.19375	.24996	1.0592	L-.65163	1.0212
#3	.04597	.47632	.19482	.25360	1.0613	L.00905	1.0205
#4	.05056	.48464	.19644	.24997	1.0586	L.68783	.99524

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK
High	.06000	.60000	.24000	.30000	1.2000	60.000	
Low	.04000	.40000	.16000	.20000	.80000	40.000	

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00548	.48443	-.00239	S-.14005	.47687	.47990	L-.00163
SDev	.01783	.00418	.00253	.00000	.01211	.00451	.01076
%RSD	325.00	.86288	105.76	.00000	2.5395	.94003	658.67

#1	L.01303	.47869	-.00618	S-.14005	.48297	.48368	L-.01777
#2	L-.01988	.48468	-.00113	S-.14005	.48788	.47604	L.00391
#3	L.00754	.48866	-.00113	S-.14005	.47653	.47596	L.00377
#4	L.02125	.48567	-.00113	S-.14005	.46009	.48394	L.00356

Errors	LC Low	LC Pass	NOCHECK	LC Low	LC Pass	LC Pass	LC Low
High	60.000	.60000		60.000	.60000	.60000	.60000
Low	40.000	.40000		40.000	.40000	.40000	.40000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.2446	.01584	.02053	.96918	.00042	1.8638	.47627
SDev	.0661	.00834	.01240	.00938	.00084	.1055	.00465
%RSD	2.9433	52.698	60.396	.96783	201.33	5.6629	.97541

#1	2.1680	.00402	.03224	.96069	.00025	1.7854	.46980
#2	2.2446	.01588	.00877	.97658	-.00042	1.9664	.47965

6721489

Analysis Report

09/27/00 07:24:32 PM

page 2

#3	2.2365	.02175	.01091	.97798	.00025	1.9423	.47965
#4	2.3292	.02170	.03019	.96146	.00159	1.7610	.47599
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High	2.4000					2.4000	.60000
Low	1.6000					1.6000	.40000

Elem	ZN
Units	ppm
Avge	.50460
SDev	.00512
%RSD	1.0150

#1	.49707
#2	.50779
#3	.50569
#4	.50786

Errors	LC Pass
High	.60000
Low	.40000

Analysis Report

09/27/00 07:27:44 PM

page 1

Method: QUANMET Sample Name: DL26DTB Operator: EMF
 Run Time: 09/27/00 19:24:39
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.02291	.17751	.00314	.00108	-.00001	.35965
SDev	.00146	.01044	.07996	.01426	.00030	.00001	.00454
%RSD	8308.8	45.578	45.047	454.39	27.985	115.47	1.2629

#1	.00076	.02752	.28252	.00126	.00115	-.00001	.36455
#2	.00073	.01838	.14518	.01948	.00065	.00000	.35742
#3	.00076	.03482	.09390	-.01492	.00136	-.00001	.36214
#4	-.00218	.01093	.18845	.00673	.00115	.00000	.35449

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK
High	.50000		.50000		10.000		
Low	-.50000		-.50000		-10.000		

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00208	.00139	.00322	.00137	.02859	.38690	-.00032
SDev	.00056	.00138	.00154	.00136	.00086	.23326	.00091
%RSD	26.830	99.520	47.881	99.737	3.0121	60.288	286.55

#1	-.00130	.00347	.00523	.00296	.02876	.71498	.00081
#2	-.00206	.00070	.00308	.00023	.02944	.16291	-.00117
#3	-.00242	.00070	.00147	.00205	.02739	.33486	.00001
#4	-.00255	.00070	.00309	.00023	.02876	.33486	-.00093

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.10000		.50000				
Low	-.10000		-.50000				

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01782	.00125	.00127	S-.14005	.00495	-.02127	.01615
SDev	.00721	.00000	.00505	.00000	.00506	.01325	.01621
%RSD	40.461	.15116	398.83	.00000	102.29	62.278	100.40

#1	.01851	.00125	-.00126	S-.14005	.01009	-.01539	.02960
#2	.02125	.00125	-.00126	S-.14005	.00621	-.02321	.02970
#3	.02399	.00125	-.00126	S-.14005	.00552	-.00775	.00813
#4	.00754	.00126	.00884	S-.14005	-.00202	-.03875	-.00282

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK
High						.50000	
Low						-.50000	

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01318	.02497	.01239	.00167	.00075	.00872	.00247
SDev	.02611	.00755	.02426	.00036	.00043	.06194	.00279
%RSD	198.08	30.224	195.84	21.322	57.378	710.33	112.82

#1	.01318	.02207	.04297	.00181	.00125	-.06081	.00489
#2	.00110	.02788	-.01487	.00114	.00059	-.02450	-.00001

6721491

Analysis Report

09/27/00 07:27:44 PM

page 2

#3	.04944	.01620	.00432	.00181	.00092	.07217	.00488
#4	-.01099	.03375	.01713	.00191	.00025	.04802	.00012

Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.25000						
Low	-.25000						

Elem	ZN
Units	ppm
Avge	.00640
SDev	.00054
%RSD	8.4890

#1	.00700
#2	.00645
#3	.00568
#4	.00647

Errors	NOCHECK
High	
Low	

Analysis Report

09/27/00 07:30:56 PM

page 1

Method: QUANMET Sample Name: DKWMTT

Operator: EMF

Run Time: 09/27/00 19:27:51

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00261	.43858	.16208	.17693	.10972	.00006	176.41
SDev	.00206	.01050	.04827	.01983	.00061	.00007	1.50
%RSD	78.947	2.3938	29.783	11.210	.56087	115.47	.85058
#1	-.00115	.44128	.22393	.16009	.10882	.00000	174.90
#2	-.00261	.43041	.12581	.19852	.11011	.00013	175.37
#3	-.00116	.45231	.12170	.18903	.10982	.00000	177.39
#4	-.00553	.43032	.17687	.16008	.11011	.00013	177.97
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02628	.30299	.32075	.07627	.38562	3.9414	.03691
SDev	.00308	.00306	.00439	.00202	.00180	.2384	.00039
%RSD	11.724	1.0110	1.3680	2.6475	.46719	6.0477	1.0669
#1	.02310	.29988	.31471	.07422	.38545	3.6292	.03658
#2	.03012	.30678	.32061	.07877	.38408	3.9188	.03738
#3	.02465	.30126	.32276	.07513	.38819	4.0184	.03708
#4	.02726	.30402	.32491	.07695	.38477	4.1994	.03658
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.7752	2.8837	.15407	S-.14005	.05256	-.00187	.02511
SDev	.0747	.0194	.00252	.00000	.01262	.00980	.01837
%RSD	.85100	.67425	1.6389	.00000	24.005	523.71	73.147
#1	8.6813	2.8605	.15533	S-.14005	.06184	-.01555	.00637
#2	8.7909	2.8764	.15028	S-.14005	.03773	.00018	.02769
#3	8.7663	2.8924	.15533	S-.14005	.04649	.00775	.01700
#4	8.8622	2.9053	.15533	S-.14005	.06417	.00014	.04937
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04952	1.1519	.00020	.16613	-.00987	-.01227	.00277
SDev	.04884	.0408	.01896	.00135	.00042	.11216	.00003
%RSD	98.610	3.5425	9254.3	.81397	4.2654	914.11	1.2640
#1	.01427	1.1197	.00655	.16427	-.00979	.14772	.00277
#2	.11500	1.1138	.00022	.16675	-.00979	-.06975	.00272

6721493

Analysis Report

09/27/00 07:30:56 PM

page 2

#3	.01025	1.1901	-.02554	.16608	-.00945	-.10588	.00279
#4	.05859	1.1842	.01959	.16742	-.01046	-.02117	.00280
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge 29.469
SDev .206
%RSD .69767

#1 29.223
#2 29.383
#3 29.585
#4 29.683

Errors LC Pass
High 100.00
Low -.02000

Analysis Report

09/27/00 07:34:09 PM

page 1

Method: QUANMET Sample Name: DKWMXT

Operator: EMF

Run Time: 09/27/00 19:31:03

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00108	.20598	.14954	.42640	.21513	.00016	61.289
SDev	.00119	.00377	.05563	.00312	.00161	.00012	.462
%RSD	110.09	1.8308	37.199	.73191	.74953	76.134	.75346
#1	-.00254	.20096	.18692	.42676	.21498	.00000	60.642
#2	-.00109	.21012	.20649	.42878	.21578	.00013	61.621
#3	-.00106	.20637	.09252	.42189	.21298	.00025	61.271
#4	.00037	.20646	.11223	.42817	.21678	.00026	61.621
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00464	.07575	.20005	.15011	.05254	4.9981	.00360
SDev	.00428	.00307	.00423	.00087	.00103	.6363	.00180
%RSD	92.127	4.0546	2.1157	.58104	1.9531	12.732	50.107
#1	.00424	.07125	.19401	.14943	.05203	4.0455	.00093
#2	-.00012	.07681	.20367	.15125	.05340	5.2583	.00412
#3	.01028	.07678	.20045	.14943	.05135	5.3488	.00453
#4	.00416	.07818	.20206	.15034	.05340	5.3397	.00483
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.151	2.0111	.01642	S-.14005	.03031	-.00965	-.00125
SDev	.075	.0106	.00505	.00000	.00184	.01847	.01618
%RSD	.62090	.52508	30.757	.00000	6.0848	191.35	1294.2
#1	12.134	1.9996	.00884	S-.14005	.02915	-.02141	-.01463
#2	12.230	2.0196	.01894	S-.14005	.02922	.01748	-.01482
#3	12.054	2.0046	.01894	S-.14005	.03304	-.02122	.01765
#4	12.186	2.0206	.01894	S-.14005	.02984	-.01345	.00680
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02635	1.2870	.00162	.12846	-.00259	-.00409	.00190
SDev	.02780	.0402	.01411	.00057	.00043	.02871	.00247
%RSD	105.48	3.1248	871.51	.44550	16.658	702.05	130.05
#1	.03340	1.2840	-.00861	.12866	-.00276	.01401	.00056
#2	-.00286	1.3134	.02138	.12866	-.00310	-.03425	.00072

6721495

Analysis Report

09/27/00 07:34:09 PM

page 2

#3	.01325	1.2312	-.00848	.12762	-.00209	.02606	.00560
#4	.06161	1.3192	.00219	.12891	-.00243	-.02217	.00071
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge 57.510
SDev .218
%RSD .37962

#1 57.270
#2 57.728
#3 57.384
#4 57.659

Errors LC Pass
High 100.00
Low -.02000

Analysis Report

09/27/00 07:37:21 PM

page 1

Method: QUANMET Sample Name: DKWNOT

Operator: EMF

Run Time: 09/27/00 19:34:16

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00108	.12229	.10003	.15816	.27129	.00009	562.33
SDev	.00183	.00637	.04015	.00386	.00146	.00006	2.30
%RSD	169.14	5.2094	40.141	2.4430	.53717	75.578	.40819

#1	-.00072	.11941	.08532	.15624	.27162	-.00001	559.18
#2	.00074	.13070	.06166	.15907	.27283	.00012	564.59
#3	-.00072	.12323	.09708	.15421	.26932	.00012	562.32
#4	-.00363	.11581	.15606	.16313	.27141	.00012	563.22

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00142	.56456	.01636	.07399	.08239	2.7672	.00307
SDev	.00375	.00407	.00264	.00052	.00277	.2261	.00029
%RSD	263.75	.72066	16.147	.70819	3.3602	8.1717	9.4375

#1	-.00158	.56042	.01971	.07444	.08067	3.0590	.00332
#2	.00690	.56870	.01596	.07354	.08616	2.5070	.00282
#3	.00006	.56734	.01328	.07444	.07999	2.7513	.00332
#4	.00031	.56179	.01649	.07353	.08273	2.7513	.00282

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.8108	.18532	.02274	S-.14005	.01871	.00890	.02394
SDev	.0380	.00050	.00635	.00000	.00349	.03713	.02226
%RSD	.43079	.26818	27.948	.00000	18.683	417.33	92.998

#1	8.8348	.18458	.02905	S-.14005	.02237	.00684	.01044
#2	8.8513	.18557	.01390	S-.14005	.02096	-.02391	.04292
#3	8.7745	.18557	.02400	S-.14005	.01634	.06131	.04276
#4	8.7827	.18557	.02400	S-.14005	.01516	-.00864	-.00036

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00226	1.3530	.00238	.35158	-.03648	-.04368	.00523
SDev	.05480	.0440	.01342	.00139	.00042	.05611	.00009
%RSD	2419.5	3.2537	564.70	.39477	1.1544	128.45	1.6555

#1	-.01084	1.3075	.00018	.35126	-.03689	-.06478	.00532
#2	.08186	1.4015	-.01468	.35333	-.03589	.03178	.00511

6721497

Analysis Report

09/27/00 07:37:21 PM

page 2

#3	-.01890	1.3252	.01745	.34997	-.03656	-.10108	.00524
#4	-.04306	1.3780	.00656	.35178	-.03656	-.04064	.00524
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge 79.496
SDev .187
%RSD .23497

#1 79.349
#2 79.702
#3 79.328
#4 79.607

Errors LC Pass
High 100.00
Low -.02000

Analysis Report

09/27/00 07:40:33 PM

page 1

Method: QUANMET Sample Name: DKVJWT

Operator: EMF

Run Time: 09/27/00 19:37:28

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00273	3.3203	.12132	.09738	1.1618	.00021	565.51
SDev	.00084	.0083	.03750	.00172	.0038	.00007	1.39
%RSD	30.730	.25076	30.913	1.7635	.32899	32.350	.24577
#1	-.00346	3.3222	.12820	.09652	1.1631	.00025	565.41
#2	-.00345	3.3295	.08880	.09653	1.1666	.00011	564.78
#3	-.00201	3.3203	.09681	.09996	1.1584	.00025	564.35
#4	-.00199	3.3093	.17146	.09652	1.1591	.00024	567.49
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00415	.00455	.00201	.01189	2.5797	5.5841	.00301
SDev	.00323	.00207	.00076	.00118	.0036	.2616	.00102
%RSD	77.918	45.410	37.845	9.8882	.13938	4.6843	33.815
#1	.00645	.00557	.00254	.01144	2.5795	5.4574	.00235
#2	.00328	.00559	.00254	.01235	2.5829	5.5660	.00432
#3	-.00005	.00145	.00201	.01052	2.5747	5.3578	.00208
#4	.00690	.00559	.00093	.01326	2.5815	5.9552	.00329
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.861	2.5801	-.00219	S862.01	.01002	.01280	.04045
SDev	.052	.0047	.00252	1724.3	.00275	.02010	.03734
%RSD	.26197	.18113	115.21	200.03	27.399	157.05	92.323
#1	19.856	2.5821	-.00093	S-.14005	.00804	.00503	.00805
#2	19.922	2.5821	-.00093	S3448.4	.01011	.02062	.07280
#3	19.796	2.5731	-.00093	S-.14005	.01388	-.01058	.00816
#4	19.872	2.5831	-.00598	S-.14005	.00807	.03613	.07278
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03806	8.5993	-.00550	1.4396	.07036	.01728	.00762
SDev	.05607	.0521	.01426	.0040	.00446	.04874	.00250
%RSD	147.34	.60621	259.12	.27637	6.3397	282.01	32.837
#1	.01287	8.6213	.01309	1.4399	.07688	-.02198	.00611
#2	.11765	8.6330	-.02090	1.4451	.06919	.01422	.00977

6721499

Analysis Report

09/27/00 07:40:33 PM

page 2

#3	-.01132	8.6212	-.01045	1.4368	.06852	.08683	.00488
#4	.03303	8.5215	-.00375	1.4364	.06684	-.00993	.00970
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
 Units ppm
 Avge .16569
 SDev .00188
 %RSD 1.1359

#1 .16801
 #2 .16401
 #3 .16642
 #4 .16433

Errors LC Pass
 High 100.00
 Low -.02000

Analysis Report

09/27/00 07:43:45 PM

6721500
page 1

Method: QUANMET Sample Name: DKVJWP5T Operator: EMF
 Run Time: 09/27/00 19:40:40
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00035	.35196	.01460	.00298	.13043	.00003	61.279
SDev	.00140	.04815	.01323	.00966	.01740	.00006	8.112
%RSD	402.47	13.681	90.569	324.21	13.339	200.00	13.238

#1	.00075	.40929	.01606	.01360	.15354	.00000	71.789
#2	.00075	.36709	.00465	.00866	.13229	.00000	63.039
#3	-.00071	.33591	.00493	-.00616	.12335	.00013	57.221
#4	-.00217	.29555	.03277	-.00418	.11253	.00000	53.069

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00079	-.00007	.00013	.00208	.29239	.53850	.00006
SDev	.00282	.00180	.00093	.00074	.03832	.12595	.00021
%RSD	357.67	2488.9	694.06	35.650	13.106	23.389	352.38

#1	.00207	-.00217	-.00067	.00117	.34101	.68783	.00031
#2	-.00088	-.00076	.00094	.00299	.30198	.59733	-.00019
#3	.00408	.00061	.00094	.00208	.27459	.42537	.00001
#4	-.00212	.00203	-.00067	.00208	.25199	.44347	.00010

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.2013	.29022	-.00122	144.60	-.00080	-.00805	.00538
SDev	.2855	.03836	.00001	19.72	.00580	.01899	.01029
%RSD	12.971	13.218	.40444	13.635	729.76	235.75	191.39

#1	2.5688	.34005	-.00122	170.91	.00464	-.02366	.00809
#2	2.2562	.29819	-.00122	146.59	-.00785	.01519	.01879
#3	2.0834	.27129	-.00123	136.37	.00321	-.00028	-.00260
#4	1.8969	.25136	-.00123	124.54	-.00318	-.02346	-.00278

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03212	.92448	-.00156	.16148	.00736	.02002	-.00002
SDev	.01340	.13601	.02444	.02129	.00196	.03463	.00000
%RSD	41.709	14.712	1569.2	13.187	26.602	172.97	13.410

#1	.03025	1.1138	.00863	.18978	.00895	.02288	-.00002
#2	.05028	.93182	-.01704	.16408	.00895	.05926	-.00001
#3	.01796	.83791	-.02569	.15214	.00661	.02310	-.00001
#4	.02998	.81443	.02787	.13991	.00494	-.02515	-.00002

Elem	ZN
Units	ppm
Avge	.02919
SDev	.01026
%RSD	35.162

#1	.02011
#2	.02227
#3	.03184

6721501

Analysis Report

09/27/00 07:43:45 PM

page 2

#4 .04256

Analysis Report

09/27/00 07:46:56 PM

6721502
page 1

Method: QUANMET Sample Name: CCV2-1 0057-054-2 Operator: EMF
 Run Time: 09/27/00 19:43:51
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0151	51.637	5.1736	5.1160	5.0894	5.0423	51.219
SDev	.0015	.107	.0645	.0209	.0148	.0089	.147
%RSD	.14411	.20809	1.2465	.40798	.29017	.17749	.28670
#1	1.0159	51.679	5.1416	5.1322	5.0896	5.0497	51.371
#2	1.0158	51.485	5.2259	5.0980	5.0689	5.0349	51.316
#3	1.0158	51.650	5.2287	5.0979	5.0956	5.0342	51.125
#4	1.0129	51.734	5.0982	5.1358	5.1034	5.0504	51.066
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0355	5.0110	5.0003	5.1237	52.854	51.621	5.2826
SDev	.0127	.0093	.0098	.0164	.069	.421	.0351
%RSD	.25144	.18552	.19629	.31932	.13049	.81588	.66530
#1	5.0283	5.0246	5.0047	5.1232	52.947	52.230	5.2689
#2	5.0534	5.0037	5.0079	5.1032	52.842	51.388	5.2409
#3	5.0251	5.0066	5.0025	5.1250	52.781	51.298	5.2991
#4	5.0351	5.0093	4.9859	5.1432	52.844	51.569	5.3215
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.476	5.0375	5.0226	51.181	4.9489	5.0182	5.1367
SDev	.127	.0080	.0065	.211	.0174	.0382	.0357
%RSD	.24722	.15803	.12977	.41165	.35079	.76083	.69446
#1	51.586	5.0462	5.0251	51.154	4.9554	5.0243	5.1100
#2	51.411	5.0422	5.0201	50.900	4.9673	5.0627	5.1421
#3	51.329	5.0302	5.0302	51.283	4.9469	5.0161	5.1097
#4	51.578	5.0312	5.0150	51.388	4.9261	4.9697	5.1852
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3363	5.0569	5.0086	5.0512	5.0516	9.9646	5.0319
SDev	.0539	.0323	.0444	.0132	.0070	.0490	.0079
%RSD	1.0105	.63928	.88738	.26211	.13863	.49208	.15704

#1	5.4081	5.0820	4.9646	5.0537	5.0566	10.018	5.0436
#2	5.2990	5.0876	5.0697	5.0325	5.0422	9.9709	5.0276

6721503

Analysis Report

09/27/00 07:46:56 PM

page 2

#3	5.3472	5.0289	5.0074	5.0552	5.0503	9.8990	5.0265
#4	5.2910	5.0290	4.9927	5.0635	5.0573	9.9708	5.0300

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem	ZN
Units	ppm
Avge	5.0651
SDev	.0087
%RSD	.17246

#1	5.0724
#2	5.0711
#3	5.0534
#4	5.0635

Errors	LC Pass
High	5.5000
Low	4.5000

Analysis Report

09/27/00 07:50:40 PM

Method: QUANMET Sample Name: CCB1

Operator: EMF

Run Time: 09/27/00 19:47:34

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00074	.01553	-.00016	.01748	.00108	.00107	.02002
SDev	.00207	.01825	.01458	.00869	.00030	.00028	.00579
%RSD	280.47	117.49	9221.7	49.733	27.985	26.519	28.904
#1	.00366	.04030	.01923	.02289	.00115	.00142	.02806
#2	-.00072	.01276	-.01585	.02290	.00136	.00117	.02040
#3	.00073	.01277	-.00404	.00467	.00115	.00091	.01629
#4	-.00073	-.00371	.00002	.01945	.00065	.00078	.01535
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00011	-.00070	.00067	.00159	.01130	-.22173	.00029
SDev	.00079	.00253	.00178	.00118	.00360	.36356	.00037
%RSD	724.60	363.75	265.37	73.910	31.872	163.96	130.11
#1	-.00065	.00208	.00201	.00296	.01507	.22626	.00031
#2	.00106	-.00208	.00040	.00114	.01370	-.38917	.00072
#3	-.00039	.00069	.00201	.00205	.00822	-.10860	.00031
#4	-.00046	-.00346	-.00174	.00022	.00822	-.61543	-.00019
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00137	.00100	.00379	.00901	.00338	-.01166	-.00265
SDev	.01458	.00050	.00412	.00827	.00298	.01849	.01757
%RSD	1063.0	49.731	108.82	91.809	88.187	158.55	662.70
#1	.01577	.00125	.00379	.01585	.00212	.01552	-.00266
#2	-.00891	.00125	.00379	.01324	.00091	-.01554	.01886
#3	.00480	.00025	.00884	.00977	.00769	-.02325	-.00262
#4	-.01714	.00125	-.00126	-.00282	.00279	-.02338	-.02419
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05040	.01469	-.01287	.00097	.00167	.01800	.00158
SDev	.05390	.00295	.00696	.00032	.00042	.02872	.00232
%RSD	106.94	20.058	54.092	33.555	25.166	159.55	146.67
#1	.06552	.01620	-.01287	.00129	.00226	.03604	.00494
#2	.05343	.01616	-.01278	.00103	.00159	.04821	.00127

6721505

Analysis Report

09/27/00 07:50:40 PM

page 2

#3	.10580	.01027	-.02144	.00103	.00159	-.01218	.00012
#4	-.02314	.01614	-.00439	.00052	.00125	-.00005	-.00002

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge .00239
SDev .00152
%RSD 63.443

#1	.00222
#2	.00033
#3	.00321
#4	.00378

Errors	LC Pass
High	.02000
Low	-.02000

Analysis Report

09/27/00 07:53:52 PM

page 1

Method: QUANMET Sample Name: DKVJWTS Operator: EMF
 Run Time: 09/27/00 19:50:47
 Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP
 Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04824	5.4265	2.1600	1.0504	3.1088	.04718	586.16
SDev	.00120	.0051	.0578	.0062	.0055	.00008	3.26
%RSD	2.4821	.09366	2.6769	.58576	.17845	.16550	.55579
#1	.04677	5.4214	2.1856	1.0539	3.1095	.04725	581.40
#2	.04824	5.4289	2.2051	1.0539	3.1012	.04711	587.55
#3	.04970	5.4325	2.0754	1.0525	3.1099	.04711	586.91
#4	.04825	5.4232	2.1737	1.0412	3.1145	.04724	588.75
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05372	.46008	.18491	.26524	3.6314	5.6791	1.0572
SDev	.00206	.00498	.00167	.00052	.0118	.3235	.0050
%RSD	3.8272	1.0823	.90184	.19644	.32579	5.6963	.47515
#1	.05222	.45350	.18464	.26569	3.6202	5.2492	1.0627
#2	.05394	.46459	.18410	.26479	3.6257	5.9461	1.0512
#3	.05217	.46320	.18357	.26479	3.6319	5.9099	1.0552
#4	.05654	.45904	.18732	.26570	3.6476	5.6112	1.0595
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.718	3.1472	.00173	S-.14005	.46729	.48038	.02782
SDev	.045	.0129	.00292	.00000	.01247	.00014	.03665
%RSD	.21789	.40957	168.42	.00000	2.6696	.02992	131.74
#1	20.690	3.1303	-.00079	S-.14005	.44984	.48019	.01416
#2	20.670	3.1512	-.00079	S-.14005	.47904	.48044	-.00703
#3	20.761	3.1462	.00426	S-.14005	.47216	.48052	.07902
#4	20.753	3.1612	.00426	S-.14005	.46812	.48035	.02514
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.2252	8.8659	.00373	2.4434	.07036	1.8609	.47355
SDev	.0385	.0528	.00968	.0046	.00259	.0877	.00247
%RSD	1.7316	.59542	259.34	.19001	3.6739	4.7104	.52113
#1	2.2362	8.8967	.00474	2.4412	.07119	1.7763	.46985
#2	2.2685	8.9085	.00894	2.4383	.07186	1.8246	.47474

6721507

Analysis Report

09/27/00 07:53:52 PM

page 2

#3	2.2202	8.8674	.01144	2.4453	.07186	1.9817	.47481
#4	2.1759	8.7911	-.01019	2.4489	.06651	1.8608	.47482

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .63023
SDev .00171
%RSD .27123

#1 .63195
#2 .62786
#3 .63056
#4 .63057

Errors LC Pass
High 100.00
Low -.02000

Analysis Report

09/27/00 07:57:04 PM

6721508
page 1

Method: QUANMET Sample Name: DKVJWTD

Operator: EMF

Run Time: 09/27/00 19:53:59

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04829	5.4384	2.2962	1.0781	3.1584	.04813	584.24
SDev	.00119	.0263	.1276	.0209	.0230	.00018	2.05
%RSD	2.4591	.48450	5.5554	1.9424	.72897	.38098	.35049
#1	.04683	5.4196	2.1972	1.0676	3.1490	.04800	581.95
#2	.04974	5.4455	2.2559	1.1020	3.1447	.04800	584.99
#3	.04829	5.4160	2.2482	1.0879	3.1470	.04813	586.68
#4	.04829	5.4727	2.4835	1.0549	3.1928	.04839	583.34
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05338	.47253	.18731	.27025	3.6363	5.5750	1.0872
SDev	.00400	.00623	.00158	.00196	.0078	.2030	.0131
%RSD	7.4862	1.3182	.84230	.72609	.21423	3.6421	1.2027
#1	.04908	.46874	.18571	.26843	3.6291	5.6474	1.0858
#2	.05800	.48118	.18892	.26935	3.6312	5.5841	1.0776
#3	.05523	.47288	.18839	.27026	3.6462	5.7741	1.0792
#4	.05122	.46732	.18624	.27298	3.6387	5.2945	1.1060
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.616	3.1522	.00173	S-.14005	.47795	.49037	.02259
SDev	.069	.0092	.00652	.00000	.00518	.04503	.01040
%RSD	.33287	.29313	376.31	.00000	1.0836	9.1817	46.050
#1	20.563	3.1393	.00426	S-.14005	.47973	.48834	.01453
#2	20.588	3.1522	-.00584	S-.14005	.48395	.55068	.03619
#3	20.596	3.1572	-.00079	S-.14005	.47641	.44196	.02525
#4	20.717	3.1602	.00931	S-.14005	.47172	.48051	.01438
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.2987	8.7985	.01121	2.4657	.07178	1.9725	.48456
SDev	.0260	.0056	.01004	.0155	.00248	.0317	.00008
%RSD	1.1314	.06387	89.559	.62969	3.4548	1.6086	.01710
#1	2.2725	8.7912	.00474	2.4572	.07186	1.9453	.48459
#2	2.3169	8.7971	.00054	2.4577	.07454	1.9936	.48447

6721509
Analysis Report

09/27/00 07:57:04 PM

page 2

#3	2.2806	8.8029	.01980	2.4590	.06852	2.0056	.48453
#4	2.3249	8.8029	.01974	2.4890	.07220	1.9453	.48466

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.64209
SDev	.00342
%RSD	.53232

#1	.63780
#2	.64557
#3	.64394
#4	.64104

Errors	LC Pass
High	100.00
Low	-.02000

Analysis Report

09/27/00 08:00:17 PM

page 1

Method: QUANMET Sample Name: DKVK3T

Operator: EMF

Run Time: 09/27/00 19:57:12

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00301	.03715	.13420	.07793	1.3851	.00012	H659.22
SDev	.00074	.00609	.05786	.00474	.0096	.00010	2.87
%RSD	24.471	16.394	43.117	6.0810	.69573	81.700	.43462
#1	-.00265	.04412	.16856	.08420	1.3832	.00013	H657.79
#2	-.00263	.03671	.18426	.07853	1.3838	.00012	H659.35
#3	-.00411	.02935	.12939	.07590	1.3983	.00000	H656.58
#4	-.00263	.03842	.05460	.07307	1.3752	.00025	H663.17
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00251	.00394	.00322	.01342	.01218	3.0703	.00036
SDev	.00183	.00237	.00177	.00118	.00148	.3773	.00010
%RSD	73.149	60.004	55.052	8.7567	12.155	12.287	28.571
#1	.00225	.00429	.00308	.01296	.01286	2.8509	.00031
#2	.00250	.00706	.00362	.01388	.01218	3.3034	.00031
#3	.00040	.00152	.00094	.01205	.01012	2.6608	.00031
#4	.00487	.00290	.00523	.01478	.01355	3.4663	.00052
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	15.942	2.5627	.00379	S-.14005	.01234	-.01151	.02973
SDev	.038	.0038	.00412	.00000	.00794	.01009	.02493
%RSD	.23892	.15017	108.82	.00000	64.316	87.666	83.846
#1	15.924	2.5575	-.00126	S-.14005	.00505	-.01541	.00808
#2	15.954	2.5625	.00379	S-.14005	.01981	.00023	.05135
#3	15.989	2.5665	.00379	S-.14005	.00593	-.02322	.00821
#4	15.902	2.5645	.00884	S-.14005	.01859	-.00763	.05129
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03328	2.5049	.01795	1.3213	-.04501	.01931	.00250
SDev	.07305	.0083	.02238	.0083	.00042	.12210	.00286
%RSD	219.51	.33085	124.67	.62745	.93554	632.36	114.50
#1	.09775	2.5167	.04089	1.3185	-.04459	.07970	-.00001
#2	-.04328	2.4991	.02393	1.3199	-.04493	-.02908	.00495

6721511

Analysis Report

09/27/00 08:00:17 PM

page 2

#3	-.01508	2.4990	-.01267	1.3332	-.04559	.15234	.00005
#4	.09373	2.5050	.01965	1.3139	-.04493	-.12573	.00502
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.08429
SDev	.00068
%RSD	.80575

#1	.08397
#2	.08394
#3	.08531
#4	.08394

Errors	LC Pass
High	100.00
Low	-.02000

Analysis Report

09/27/00 08:03:29 PM

page 1

Method: QUANMET Sample Name: DKVK4T

Operator: EMF

Run Time: 09/27/00 20:00:24

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00159	4.4610	.13798	.05252	1.4023	.00070	241.16
SDev	.00220	.0239	.03283	.00364	.0076	.00007	.85
%RSD	138.07	.53533	23.794	6.9382	.53925	9.8702	.35437
#1	-.00342	4.4344	.15198	.04786	1.3987	.00064	240.00
#2	-.00049	4.4913	.15538	.05274	1.4125	.00076	241.11
#3	.00097	4.4656	.08880	.05273	1.3950	.00076	242.00
#4	-.00342	4.4528	.15576	.05677	1.4030	.00064	241.53
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00974	.00338	.00254	.01769	1.5658	3.1699	.00187
SDev	.00221	.00081	.00633	.00105	.0048	.5715	.00173
%RSD	22.688	24.010	248.86	5.9357	.30652	18.029	92.661
#1	.00894	.00268	-.00282	.01859	1.5607	2.7061	.00282
#2	.01199	.00266	-.00014	.01678	1.5717	3.4120	.00031
#3	.01100	.00407	.01166	.01860	1.5675	3.8645	.00052
#4	.00702	.00409	.00147	.01678	1.5634	2.6970	.00382
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.328	.98786	-.00106	S861.82	.01653	.04310	.01348
SDev	.067	.00270	.00412	1723.9	.00460	.02100	.01074
%RSD	.64402	.27316	388.93	200.03	27.817	48.716	79.697
#1	10.277	.98388	-.00106	S-.14005	.01598	.02759	.00813
#2	10.412	.98986	-.00106	S-.14005	.01884	.03530	.00816
#3	10.272	.98886	-.00611	S-.14005	.02095	.03540	.02960
#4	10.351	.98886	.00399	S3447.7	.01035	.07412	.00804
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04304	6.7312	.02739	.71435	.07805	.02582	.00733
SDev	.06160	.0470	.01074	.00342	.00462	.05130	.00279
%RSD	143.13	.69790	39.215	.47927	5.9147	198.66	38.127
#1	-.00634	6.7547	.02575	.71292	.08023	-.01039	.00487
#2	.11458	6.7547	.01932	.71897	.08291	-.02258	.00977

6721513

Analysis Report

09/27/00 08:03:29 PM

page 2

#3	.07427	6.7547	.04299	.71092	.07688	.04996	.00973
#4	-.01036	6.6607	.02149	.71458	.07220	.08629	.00495
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem ZN
Units ppm
Avge .26657
SDev .00136
%RSD .51137

#1 .26489
#2 .26813
#3 .26702
#4 .26625

Errors LC Pass
High 100.00
Low -.02000

Analysis Report

09/27/00 08:06:42 PM

page 1

Method: QUANMET Sample Name: DKXPWT

Operator: EMF

Run Time: 09/27/00 20:03:37

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00242	6.6592	.20044	.08686	.21094	.00054	293.78
SDev	.00183	.0169	.02251	.00135	.00073	.00007	.96
%RSD	75.586	.25415	11.228	1.5504	.34481	12.784	.32646
#1	-.00496	6.6500	.19753	.08594	.21077	.00050	292.58
#2	-.00059	6.6629	.17385	.08595	.21197	.00050	293.50
#3	-.00207	6.6427	.20159	.08675	.21026	.00064	294.81
#4	-.00207	6.6813	.22877	.08880	.21077	.00051	294.21
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.0000	600.00	100.00	100.00	100.00	15.000	600.00
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000
Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00216	.02454	.00053	.00564	1.3882	9.0278	.09718
SDev	.00282	.00132	.00051	.00045	.0050	.1020	.00175
%RSD	130.85	5.3978	96.468	8.0515	.36133	1.1298	1.7968
#1	L-.00564	.02420	.00093	.00586	1.3830	8.9237	.09974
#2	-.00270	.02558	-.00014	.00496	1.3892	9.1680	.09682
#3	.00115	.02557	.00040	.00587	1.3858	9.0142	.09593
#4	-.00144	.02280	.00094	.00586	1.3947	9.0051	.09623
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	400.00	1000.0	20.000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000
Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	63.988	1.3041	.00270	S-.14005	.11679	-.00440	.00668
SDev	.141	.0031	.00483	.00000	.01054	.02763	.01352
%RSD	.22082	.23754	178.76	.00000	9.0269	627.86	202.38
#1	63.976	1.2996	.00397	S-.14005	.12168	-.02765	.00940
#2	64.066	1.3066	-.00108	S-.14005	.10138	.01114	.02006
#3	63.795	1.3056	.00902	S-.14005	.11917	.02664	.00942
#4	64.116	1.3046	-.00108	S-.14005	.12493	-.02774	-.01215
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	50.000	400.00	100.00	100.00	100.00
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000
Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01026	H29.567	.00462	.45024	-.01974	.13884	.00737
SDev	.03248	.079	.02283	.00138	.00032	.06161	.00280
%RSD	316.51	.26559	493.96	.30576	1.6228	44.371	38.040
#1	-.01091	H29.488	.01320	.45019	-.01949	.19929	.00983
#2	.04552	H29.635	-.00818	.45185	-.01949	.16300	.00977

6721515

Analysis Report

09/27/00 08:06:42 PM

page 2

#3	-.02299	H29.512	-.01893	.44849	-.02016	.05429	.00501
#4	.02942	H29.635	.03239	.45045	-.01983	.13881	.00488
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	20.000	100.00	50.000	50.000	100.00	100.00
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-2.0000	-.05000

Elem	ZN
Units	ppm
Avge	.23636
SDev	.00151
%RSD	.63955

#1	.23655
#2	.23528
#3	.23842
#4	.23518

Errors	LC Pass
High	100.00
Low	-.02000

Analysis Report

09/27/00 08:09:54 PM

6721516
page 1

Method: QUANMET Sample Name: CCV2-2

Operator: EMF

Run Time: 09/27/00 20:06:49

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0259	52.526	5.3832	5.2275	5.1996	5.1760	51.927
SDev	.0049	.395	.0979	.0644	.0544	.0420	.279
%RSD	.48101	.75156	1.8184	1.2314	1.0458	.81172	.53650

#1	1.0296	52.394	5.5031	5.1679	5.1731	5.1609	52.209
#2	1.0250	52.104	5.2821	5.2039	5.1382	5.1326	51.996
#3	1.0298	53.047	5.4185	5.3184	5.2600	5.2324	51.961
#4	1.0193	52.559	5.3293	5.2199	5.2270	5.1780	51.543

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	55.000	5.5000	5.5000	5.5000	5.5000	55.000
Low	.90000	45.000	4.5000	4.5000	4.5000	4.5000	45.000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.0499	5.0849	5.0858	5.2414	53.799	53.044	5.4126
SDev	.0253	.0164	.0187	.0593	.234	.276	.0865
%RSD	.50191	.32298	.36780	1.1317	.43411	.51957	1.5976

#1	5.0803	5.0991	5.0985	5.2089	53.821	52.863	5.3550
#2	5.0605	5.0728	5.0856	5.1770	53.572	52.809	5.3227
#3	5.0350	5.0991	5.0996	5.3080	54.114	53.415	5.4959
#4	5.0240	5.0687	5.0594	5.2716	53.689	53.090	5.4766

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	55.000	55.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	45.000	45.000	4.5000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	52.314	5.1197	5.1086	52.559	5.0097	5.0796	5.2226
SDev	.386	.0197	.0187	.616	.0258	.0544	.0626
%RSD	.73710	.38395	.36583	1.1724	.51477	1.0703	1.1987

#1	52.165	5.1282	5.0909	52.234	5.0348	5.1189	5.2714
#2	51.937	5.1072	5.0959	51.895	5.0046	5.0330	5.1741
#3	52.845	5.1432	5.1313	53.282	5.0236	5.1338	5.2817
#4	52.310	5.1002	5.1161	52.824	4.9758	5.0325	5.1632

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	55.000	5.5000	5.5000	55.000	5.5000	5.5000	5.5000
Low	45.000	4.5000	4.5000	45.000	4.5000	4.5000	4.5000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.4722	5.1460	5.0747	5.1538	5.1553	10.283	5.1237
SDev	.1159	.0443	.0309	.0477	.0314	.165	.0272
%RSD	2.1175	.86117	.60817	.92490	.60841	1.6030	.53039

#1	5.4027	5.1240	5.0787	5.1337	5.1450	10.515	5.1241
#2	5.4262	5.1237	5.0633	5.0992	5.1216	10.204	5.0985

672i5i7

Analysis Report

09/27/00 08:09:54 PM

page 2

#3	H5.6454	5.2125	5.1150	5.2090	5.1965	10.137	5.1613
#4	5.4144	5.1238	5.0417	5.1733	5.1580	10.275	5.1109
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.5000	5.5000	5.5000	5.5000	5.5000	11.000	5.5000
Low	4.5000	4.5000	4.5000	4.5000	4.5000	9.0000	4.5000

Elem ZN
Units ppm
Avge 5.1472
SDev .0182
%RSD .35265

#1 5.1524
#2 5.1292
#3 5.1703
#4 5.1370

Errors LC Pass
High 5.5000
Low 4.5000

Analysis Report

09/27/00 08:13:06 PM

page 1

Method: QUANMET Sample Name: CCB2

Operator: EMF

Run Time: 09/27/00 20:10:01

Comment: STL PITTSBURGH ICP METALS ANALYSIS INSTRUMENT JA61EICP

Mode: CONC Corr. Factor: 1

Elem	AG	AL	AS	B_	BA	BE	CA
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00072	.01462	.00180	.02031	.00120	.00123	.01437
SDev	.00206	.01086	.01616	.00171	.00042	.00025	.00494
%RSD	288.45	74.307	895.80	8.4441	35.129	20.290	34.357

#1	.00075	.02374	.01937	.01945	.00136	.00142	.01761
#2	.00073	.02195	.00374	.01945	.00165	.00143	.01842
#3	-.00364	.00000	.00392	.01945	.00065	.00117	.00760
#4	-.00071	.01278	-.01980	.02288	.00115	.00090	.01383

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.20000	.30000	.20000	.20000	.00500	5.0000
Low	-.01000	-.20000	-.30000	-.20000	-.20000	-.00500	-5.0000

Elem	CD	CO	CR	CU	FE	K_	LI
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00067	-.00070	.00188	.00136	.01147	-.14254	.00073
SDev	.00356	.00113	.00110	.00114	.00413	.26411	.00052
%RSD	530.46	161.93	58.833	83.919	35.949	185.28	70.553

#1	-.00201	-.00069	.00201	.00114	.01438	-.28056	.00111
#2	.00408	.00068	.00040	.00296	.01507	-.03620	.00052
#3	-.00277	-.00069	.00201	.00023	.01027	-.42537	.00010
#4	.00339	-.00209	.00308	.00114	.00616	.17196	.00120

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.05000	.01000	.02500	.10000	5.0000	.05000
Low	-.00500	-.05000	-.01000	-.02500	-.10000	-5.0000	-.05000

Elem	MG	MN	MO	NA	NI	PB	SB
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01234	.00125	.00253	.02432	.00248	-.00585	-.00270
SDev	.00849	.00081	.00483	.01150	.01143	.02992	.00885
%RSD	68.793	65.258	191.39	47.302	461.25	511.88	327.93

#1	.00754	.00125	.00379	.03713	-.00019	.03871	-.00272
#2	.02399	.00225	.00884	.03018	.01925	-.02324	.00817
#3	.00480	.00025	-.00126	.01151	-.00603	-.02327	-.00274
#4	.01303	.00125	-.00126	.01846	-.00311	-.01558	-.01351

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.0000	.01500	.04000	5.0000	.04000	.10000	.06000
Low	-5.0000	-.01500	-.04000	-5.0000	-.04000	-.10000	-.06000

Elem	SE	SI	SN	SR	TI	TL	V_
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02320	.01470	.00159	.00099	.00142	-.01524	.00218
SDev	.03395	.00563	.01438	.00028	.00064	.07005	.00251
%RSD	146.32	38.327	902.80	27.776	45.055	459.76	115.25

#1	-.01104	.02207	-.00216	.00129	.00192	-.10895	.00494
#2	.06149	.01614	.02145	.00103	.00192	.06027	.00012

6721519

Analysis Report

09/27/00 08:13:06 PM

page 2

#3	.00104	.01027	-.01287	.00103	.00125	-.00011	-.00001
#4	.04132	.01031	-.00006	.00062	.00059	-.01215	.00366

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.25000	.50000	.10000	.05000	.05000	.30000	.05000
Low	-.25000	-.50000	-.10000	-.05000	-.05000	-.30000	-.05000

Elem ZN
Units ppm
Avge .00039
SDev .00051
%RSD 131.12

#1	-.00020
#2	.00105
#3	.00035
#4	.00036

Errors	LC Pass
High	.02000
Low	-.02000

STL-Pittsburgh Atomic Absorption Data for Mercury

Instrument: PS200HG

Analyst Name: William A. HyleDate of Analysis: 9-27-00File ID: 0927HGAMatrix: WATER

Lot Number/SDG

Method

<u>COI220208</u>	<u>TCLP</u>	<u>7470A</u>
<u>COI220315</u>	↓	
<u>COI230167</u>	↓	
<u>COI250134</u>		
<u>COI200197</u>		↓
<u>COI220286</u>	<u>CP043</u>	<u>ILM04.0</u>

6721521

William a Hyle 9-27-00

09:43:29 27 Sep 2000

Folder: 0927HGA

Page 374

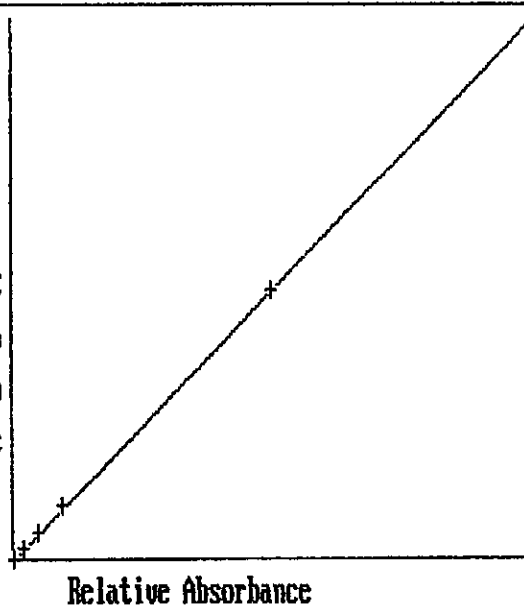
Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1								
				Seq: 0	09:43:29 27 Sep 2000 HG			
Hg	.000	ppb	6164					
*** Standard: 2 Rep: 1								
				Seq: 1	09:45:11 27 Sep 2000 HG			
Hg	.200	ppb	27696	0057-082-5				
*** Standard: 3 Rep: 1								
				Seq: 2	09:46:36 27 Sep 2000 HG			
Hg	.500	ppb	64417	0057-082-6				
*** Standard: 4 Rep: 1								
				Seq: 3	09:49:05 27 Sep 2000 HG			
Hg	1.00	ppb	122237	0057-082-7				
*** Standard: 5 Rep: 1								
				Seq: 4	09:51:14 27 Sep 2000 HG			
Hg	5.00	ppb	633251	0057-082-8				
*** Standard: 6 Rep: 1								
				Seq: 5	09:52:43 27 Sep 2000 HG			
Hg	10.0	ppb	1270720	0057-082-9				

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
 RunFold: 0927HGA Seq: 6 Batch:
 Prnt: R/T On Pump: On
 Rev: 4.2 09:52:58 27 Sep 2000 Xmit: Off Gas: 0.30 LPM
 State: Idle User: WAH A/S: On

CALIBRATION: Line proto: HGMET

	Hg	Accepted
	Conc.	Calc. Dev. ->linear
S1	.000	.040 .040 Quadratic
S2	.200	.210 .010 Wtdlinear
S3	.500	.499 -.001 C
S4	1.00	.955 -.045 Accept o
S5	5.00	4.98 -.015 n
S6	10.0	10.0 .012 c
A	.0000000	r .999975
B	7.88557e-6	C -0.79654e-3



	Mean	SD
S1	6164	6164
S2	27696	27696
S3	64417	64417
S4	122237	122237
S5	633251	633251
S6	1270720	1270720

New cal coefficients stored

6721523

William a Hoyle

09:55:53 27 Sep 2000

Folder: 0927HGA

Page 375

Protocol: HGMET

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: ICV5-1				Seq: 6	09:55:53 27 Sep 2000	HG		
Hg	2.56	ppb	325137	0057-082-10				
*** Sample ID: ICB1				Seq: 7	09:57:17 27 Sep 2000	HG		
Hg	.029	ppb	4834					
*** Sample ID: CRA-1				Seq: 8	09:59:04 27 Sep 2000	HG		
Hg	.201	ppb	26650	0057-082-11				
*** Sample ID: CCV5-1				Seq: 9	10:00:31 27 Sep 2000	HG		
Hg	5.02	ppb	637821	0057-082-12				
*** Sample ID: CCB1				Seq: 10	10:02:09 27 Sep 2000	HG		
Hg	.057	ppb	8398					
*** Sample ID: DL29GBT				Seq: 11	10:04:27 27 Sep 2000	HG		
Hg	.064	ppb	9211					
*** Sample ID: DL29GCT				Seq: 12	10:06:46 27 Sep 2000	HG		
Hg	2.70	ppb	343248	0057-082-13				
*** Sample ID: DL26DBT				Seq: 13	10:08:11 27 Sep 2000	HG		
Hg	.093	ppb	12920					
*** Sample ID: DKVJWT				Seq: 14	10:09:46 27 Sep 2000	HG		
Hg	.125	ppb	16987					
*** Sample ID: DKVK3T				Seq: 15	10:11:33 27 Sep 2000	HG		
Hg	.060	ppb	8661					
*** Sample ID: DKVK4T				Seq: 16	10:13:15 27 Sep 2000	HG		
Hg	.089	ppb	12372					
*** Sample ID: DKWMTT				Seq: 17	10:16:10 27 Sep 2000	HG		
Hg	.094	ppb	12974					

Folder: 0927HGA
Protocol: HGMET

Page 376

10:18:05 27 Sep 2000

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DKWMXT				Seq: 18	10:18:05 27 Sep 2000	HG		
Hg	.046	ppb	6929					
*** Sample ID: DKWNOT				Seq: 19	10:19:51 27 Sep 2000	HG		
Hg	.091	ppb	12714					
*** Sample ID: DKXPWT				Seq: 20	10:21:21 27 Sep 2000	HG		
Hg	.056	ppb	8265					
*** Sample ID: CCV5-2				Seq: 21	10:22:46 27 Sep 2000	HG		
Hg	5.11	ppb	649198					
*** Sample ID: CCB2				Seq: 22	10:24:31 27 Sep 2000	HG		
Hg	.044	ppb	6748					
*** Sample ID: DKXPWST				Seq: 23	10:26:01 27 Sep 2000	HG		
Hg	5.06	ppb	642796					
*** Sample ID: DKXPWDT				Seq: 24	10:27:31 27 Sep 2000	HG		
Hg	5.00	ppb	635713					
*** Sample ID: DL29MB				Seq: 25	10:29:01 27 Sep 2000	HG		
Hg	.036	ppb	5687					
*** Sample ID: DL29MC				Seq: 26	10:31:08 27 Sep 2000	HG		
Hg	2.49	ppb	316507					
*** Sample ID: DL0KD				Seq: 27	10:32:45 27 Sep 2000	HG		
Hg	.748	ppb	95984					
*** Sample ID: DL0KDS				Seq: 28	10:34:24 27 Sep 2000	HG		
Hg	1.76	ppb	223890					
*** Sample ID: DL0KDD				Seq: 29	10:36:09 27 Sep 2000	HG		
Hg	1.81	ppb	230593					

SP.REC.
100%

SP.REC.
100% WAH
99% 9-27-00

0057-082-14

SP.REC.
101%

SP.REC.
106%

6721525

Folder: 0927HGA
Protocol: HGMET

Page 377

10:37:48 27 Sep 2000

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DLOKG				Seq: 30		10:37:48 27 Sep 2000 HG		
Hg	.110	ppb	15046					
*** Sample ID: DLOKK				Seq: 31		10:40:09 27 Sep 2000 HG		
Hg	.108	ppb	14786					
*** Sample ID: DLOKM				Seq: 32		10:41:46 27 Sep 2000 HG		
Hg	.061	ppb	8798					
*** Sample ID: CCV5-3				Seq: 33		10:43:53 27 Sep 2000 HG		
Hg	5.13	ppb	652168					
*** Sample ID: CCB3				Seq: 34		10:45:21 27 Sep 2000 HG		
Hg	.042	ppb	6424					
*** Sample ID: DLOKN				Seq: 35		10:47:06 27 Sep 2000 HG		
Hg	.072	ppb	10273					
*** Sample ID: DLOKP				Seq: 36		10:49:24 27 Sep 2000 HG		
Hg	.075	ppb	10588					
*** Sample ID: DL3M3B				Seq: 37		10:51:03 27 Sep 2000 HG		
Hg	.084	ppb	11766					
*** Sample ID: DL3M3C				Seq: 38		10:53:41 27 Sep 2000 HG		
Hg	2.59	ppb	329881					
*** Sample ID: DKNTE				Seq: 39		10:55:06 27 Sep 2000 HG		
Hg	.062	ppb	9016					
*** Sample ID: DKNTES				Seq: 40		10:56:31 27 Sep 2000 HG		
Hg	.833	ppb	106690					
*** Sample ID: DKNTED				Seq: 41		10:57:56 27 Sep 2000 HG		
Hg	.820	ppb	105109					

0057-082-15

SP-REC.
77%SP-REC.
76%

Folder: 0927HGA

Protocol: HGMET

10:59:53 27 Sep 2000

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DKNTV				Seq: 42		10:59:53 27 Sep 2000	HG	
Hg	.082	ppb	11497					
*** Sample ID: DKNV3				Seq: 43		11:01:21 27 Sep 2000	HG	
Hg	.056	ppb	8261					
*** Sample ID: DKNV5				Seq: 44		11:02:56 27 Sep 2000	HG	
Hg	.070	ppb	10043					
*** Sample ID: CCV5-4				Seq: 45		11:05:12 27 Sep 2000	HG	
Hg	5.19	ppb	659098					
*** Sample ID: CCB4				Seq: 46		11:07:08 27 Sep 2000	HG	
Hg	.069	ppb	9885					
*** Sample ID: DKNV9				Seq: 47		11:10:31 27 Sep 2000	HG	
Hg	.074	ppb	10446					
*** Sample ID: DKNVF				Seq: 48		11:12:12 27 Sep 2000	HG	
Hg	.066	ppb	9489					
*** Sample ID: DKNVH				Seq: 49		11:14:01 27 Sep 2000	HG	
Hg	.067	ppb	9670					
*** Sample ID: DKNVL				Seq: 50		11:16:10 27 Sep 2000	HG	
Hg	.059	ppb	8592					
*** Sample ID: DKNVN				Seq: 51		11:17:55 27 Sep 2000	HG	
Hg	.071	ppb	10071					
*** Sample ID: DKNVP				Seq: 52		11:19:34 27 Sep 2000	HG	
Hg	.059	ppb	8629					
*** Sample ID: DKNVT				Seq: 53		11:21:22 27 Sep 2000	HG	
Hg	.079	ppb	11115					

6721527

Folder: 0927HGA
Protocol: HGMET

Page 379

11:22:53 27 Sep 2000

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: DKNWO					Seq: 54	11:22:53 27 Sep 2000	HG	
Hg	.088	ppb	12286					
*** Sample ID: DL3MJB					Seq: 55	11:25:03 27 Sep 2000	HG	
Hg	.030	ppb	4906					
*** Sample ID: DL3MJC					Seq: 56	11:26:51 27 Sep 2000	HG	
Hg	2.55	ppb	324747					
*** Sample ID: CCV5-5					Seq: 57	11:28:31 27 Sep 2000	HG	
Hg	5.23	ppb	663850					
*** Sample ID: CCB5					Seq: 58	11:29:57 27 Sep 2000	HG	
Hg	.056	ppb	8267					
*** Sample ID: DL3MJL					Seq: 59	11:31:47 27 Sep 2000	HG	
Hg	2.58	ppb	328831					
*** Sample ID: DKWDL					Seq: 60	11:33:44 27 Sep 2000	HG	
Hg	.071	ppb	10068					
*** Sample ID: DKWDD					Seq: 61	11:35:24 27 Sep 2000	HG	
Hg	.084	ppb	11723					
*** Sample ID: CCV5-6					Seq: 62	11:36:52 27 Sep 2000	HG	
Hg	5.21	ppb	662114					
*** Sample ID: CCB6					Seq: 63	11:38:17 27 Sep 2000	HG	
Hg	.042	ppb	6410					

END OF ANALYSIS
WAH
9-27-00

RunProt: HGMET	STL-PITTSBURGH METALS ANALYSIS		
RunFold: 0927HGA	Seq: 0	Batch:	
	Prnt: R/T On	Pump: Off	
	Rev: 4.2	08:42:40 27 Sep 2000	Xmit: Off Gas: LPM
State: Idle		User: WAH	A/S: On

AUTOSAMPLER: Rack Edit . rack: RACK1

cup ID	Extended id	Weight	Volume	Macro	check macros
1	ICV5-1	1.0000	1.0000		
2	ICB1	1.0000	1.0000		
3	CRA-1	1.0000	1.0000		
4	CCV5-1	1.0000	1.0000		
5	CCB1	1.0000	1.0000		
6	DL29GBT	1.0000	1.0000		
7	DL29GCT	1.0000	1.0000		
8	DL26DBT	1.0000	1.0000		
9	DKVJWT	1.0000	1.0000		
10	DKVK3T	1.0000	1.0000		
11	DKVK4T	1.0000	1.0000		
12	DKWMTT	1.0000	1.0000		
13	DKWMXT	1.0000	1.0000		
14	DKWNOT	1.0000	1.0000		
15	DKXPWT	1.0000	1.0000		

PgDn

Cup 1 ID: ICV5-1	Cell down mode Ins to switch

6721529

RunProt: HGMET	STL-PITTSBURGH METALS ANALYSIS
RunFold: 0927HGA	Seq: 0 Batch:
Prnt: R/T On	Pump: Off
Rev: 4.2	08:42:43 27 Sep 2000 Xmit: Off Gas: LPM
State: Idle	User: WAH A/S: On

AUTOSAMPLER:	Rack Edit	rack: RACK1	PgUp
cup ID	Extended id	Weight Volume Macro	check macros
16 CCV5-2		1.0000 1.0000	
17 CCB2		1.0000 1.0000	
18 DKXPWST		1.0000 1.0000	
19 DKXPWDT		1.0000 1.0000	
20 DL29MB		1.0000 1.0000	
21 DL29MC		1.0000 1.0000	
22 DLOKD		1.0000 1.0000	
23 DLOKDS		1.0000 1.0000	
24 DLOKDD		1.0000 1.0000	
25 DLOKG		1.0000 1.0000	
26 DLOKK		1.0000 1.0000	
27 DLOKM		1.0000 1.0000	
28 CCV5-3		1.0000 1.0000	
29 CCB3		1.0000 1.0000	
30 DLOKN		1.0000 1.0000	

PgDn

Cup 16 ID: CCV5-2

Cell down mode Ins to switch

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
RunFold: 0927HGA Seq: 0 Batch:
Print: R/T On Pump: Off
Rev: 4.2 08:42:44 27-Sep 2000 Xmit: Off Gas: LPM
State: Idle User: WAH A/S: On

AUTOSAMPLER: Rack Edit rack: RACK1 PgUp
cup ID Extended id Weight Volume Macro check macros
31 DLOKP 1.0000 1.0000
32 DL3M3B 1.0000 1.0000
33 DL3M3C 1.0000 1.0000
34 DKNT E 1.0000 1.0000
35 DKNTES 1.0000 1.0000
36 DKNTED 1.0000 1.0000
37 DKNTV 1.0000 1.0000
38 DKNV3 1.0000 1.0000
39 DKNV5 1.0000 1.0000
40 CCV5-4 1.0000 1.0000
41 CCB4 1.0000 1.0000
42 DKNV9 1.0000 1.0000
43 DKNVF 1.0000 1.0000
44 DKNVH 1.0000 1.0000

PgDn

Cup 31 ID: DLOKP

Cell down mode Ins to switch

6721531

RunProt: HGMET STL-PITTSBURGH METALS ANALYSIS
RunFold: 0927HGA Seq: 0 Batch:
Prnt: R/T On Pump: Off
Rev: 4.2 08:47:53 27 Sep 2000 Xmit: Off Gas: LPM
State: Idle User: WAH A/S: On

AUTOSAMPLER: Rack Edit rack: RACK2 Range 1-44 Clear seQ Undo eXit
cup ID Extended id Weight Volume Macro check macros
1 DKNVL 1.0000 1.0000
2 DKNVN 1.0000 1.0000
3 DKNVP 1.0000 1.0000
4 DKNVT 1.0000 1.0000
5 DKNWO 1.0000 1.0000
6 DL3MJB 1.0000 1.0000
7 DL3MJC 1.0000 1.0000
8 CCV5-5 1.0000 1.0000
9 CCB5 1.0000 1.0000
10 DL3MJL 1.0000 1.0000
11 DKWDL 1.0000 1.0000
12 DKWDR 1.0000 1.0000
13 CCV5-6 1.0000 1.0000
14 CCB6 1.0000 1.0000
15 1.0000 1.0000

PgDn

Cup 15 ID: Cell down mode Ins to switch

TCLP (Method 1311)

6721532

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571



QUA-4181
By: Jamaal Murphy
Date: 9-25-00
Checked by: [Signature]
Client Codes: 60130167
Fluid Determination: ✓

Project Number: 60130167
Lot Number: 60130167
Client Codes: 60130167
Date: 9-26-00
pH Instrument: Accumant A75
Solution Number 1 - Log Book Number: 00444-12
Solution Number 2 - Log Book Number: 00444-12

Serial Number: 094
Probe: SN0051407
Balance: C94817
Log Book Number: 96-MT-526

Fluid Determination

TCLP Extraction

Sample ID	Wgt/Vol	Init. pH	Final pH	Extract Fluid #1, or #2	Conc. HNO ₃ to Acidity (for Metals)	Sample ID	Wgt (g) Wet/Dry	Fluid Vol.	Final pH After Tumbling
DKUJW	5.0g/9.5ml	10.07	1.66	Soln #1	7ml	1. PB TCLP	100.0g	2000ml Glass	4.91
DKUK3	✓	8.91	1.71	✓	✓	2. ↓	✓	✓	4.93
DKUK4	✓	10.37	1.24	✓	✓	3. DKXPU	✓	✓	5.32
DKXPU	✓	10.48	1.99	✓	✓	4. ↓	✓	✓	5.31
DKXMT	✓	6.13	1.76	✓	✓	5. DKUJW	✓	✓	5.80
DKUMX	✓	6.37	1.66	✓	✓	6. DKUK3	✓	✓	5.18
DKWMD	✓	✓	✓	✓	✓	7. DKXPU	✓	✓	5.14
DKWMD	✓	✓	✓	✓	✓	8. DKWMT	✓	✓	5.17
DKWMD	✓	✓	✓	✓	✓	9. DKUMX	✓	✓	5.04
DKWMD	✓	✓	✓	✓	✓	10. DKWMD	✓	✓	6.10
DKWMD	✓	✓	✓	✓	✓	11. DKWMD	✓	✓	✓
DKWMD	✓	✓	✓	✓	✓	12. DKWMD	✓	✓	✓
DKWMD	✓	✓	✓	✓	✓	13. DKWMD	✓	✓	✓

Extract(s)

Extract(s) Received

Extract(s) Relinquished

(Record line number from above)	Date	Time	Analyst	Location	Date	Time	Analyst	Location
All above.	9-26-00	11:45	Jamaal Murphy	Metals Reg	9-26-00	12:00	Chadley	15 F
* = Sample determined to have free-liquid, % solid determination was performed. <5 = Extraction Fluid No. 1 5.7 mL Glacial Acetic Acid dil 500 mL + 64.3 mL of 1N Na OH dil to 1L (pH 4.93 ± 0.05) >5 = Extraction Fluid No 2 5.7 mL Glacial Acetic Acid dil to 1L (pH 2.88 ± 0.05) Temp = 80°C pH E.F. = 4.93								
Date/Time On					Date/Time Off			
9-25-00					9-26-00			
pH Calibration					(4.0) (7.0) (10.0)			
Date					Date			
9-25-00					4.00 7.02 10.04			
Date					4.00 7.02 10.05			
Comments								

Metals Preparation Log



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

Submitted To Your Success

Method: 301CA	Matrix: 1001	Start Time: 08:10	SDG:	Balance#
Analyst: Cynthia A. [Signature]	Date: 9-27-00	Lot Number: 001220315	Lab Lot No. (book, page, line): 0057-033-1	Reagents: 3ml Conc. HNO ₃ , 5ml 9:1 HCl
Received By: [Signature]	Date: 9-27-00	Lab Lot No. (book, page, line): 0057-033-1	MS	4ml 30% H ₂ O ₂ , 5ml 9:1 HCl

Sample ID	Init Wt/Vol g/mL	Final Vol mL	Comments	Color		Clarity		Texture		Artifacts	Artifact Codes
				Pre	Post	Pre	Post	Pre	Post		
1. DRYMIL	50011	50011	CAR								S=Stones
2. DRYMIL											O=Organic
3. DRYMIL											(plant mat)
4. DRYMIL			9-27-00								W=Free H ₂ O
5. DRYMIL			10.5ml MSBIEV								G=Glass
6. DRYMIL											M=Metal Fragments
7. DRYMIL											R=Rubber/Plastic
8. DRYMIL											C=Cloth
9. DRYMIL			CAR								P=Paper
10. DRYMIL			9-27-00								I=Insects
11. DRYMIL			10.5ml MSBIEV								
12. DRYMIL											
13. DRYMIL											
14. DRYMIL											
15. DRYMIL											
16. DRYMIL											
17. DRYMIL											
18. DRYMIL											
19. DRYMIL											
20. DRYMIL											
21. DRYMIL											
22. DRYMIL											
23. DRYMIL											
24. DRYMIL											

Digestate(s)	Digestate(s) Received			Digestate(s) Returned			Hot plate /Block Temp	Correction Factor	Color
	Date	Time	Analyst	Date	Time	Analyst			
All Digestate	9-27-00	15:50	[Signature]	9-27-00	16:00	[Signature]	75°C	-0.1°C	R=Red BL=Blue BR=Brown BLK=Black Y=Yellow O=Orange
									V=Violet P=Pink W=White GY=Gray GN=Green C=Colorless

6721533

N:\QA\FORMS\METALS_PREP

LOGBOOK # IP-00-0078

PAGE 6 of 100

Hg Digestion Log

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571



6721534

QUA-4169

PIPET# H31605

Serial Number 021 Log Book Number 96-MT-581 Start Time 08:10:20.25

Sample ID	Date Rec'd	Prep Date	Prepared By	WVVol	Sample Type	Run Date	Comments
1. STD0	N/A	9-27-00	WAH	100ml	WATER	9-27-00	N/A
2. STD1							0057-082-5
3. STD2							0057-082-6
4. STD3							0057-082-7
5. STD4							0057-082-8
6. STD5							0057-082-9
7. ICV							0057-082-10
8. ICB							N/A
9. CRA							0057-082-11
10. CCV							0057-082-12
11. CCB							N/A
12. DL296BT							N/A
13. DL296CT							0057-082-13
14. DL260BT							N/A
15. DKXWT	9-23-00						
16. DKXKT							
17. DKXKT							
18. DKXWT							
19. DKXWT							
20. DKXWT							
21. DKXWT	9-23-00						45ml 0057-082-3
22. DKXWT							45ml 0057-082-3
23. DKXWT							45ml 0057-082-3
24. DL296B	N/A						N/A
25. DL296C							0057-082-14
Reagents		Vol (mL)			Ref. Number		Method
HNO3	3.5ml				MAH/KKRODT 6623 TOSASOS		7410A/ILM04.0 AUTOCALVE 15PSI 100°C
H2SO4	5.0ml				MAH/KKRODT 5551 A21A13		5662 = 0057-064-15
KMNO4	15.0ml				0057-081-6		Acc. V. (H2O) = 0057-018-7
K2S2O4	8.0ml				0057-074-12		WAH 9-27-00
Extract(s)			Extract(s) Received				Extract(s) Relinquished
(Record line number from above)	Date	Time	Analyst	Location	Date	Time	Analyst
			WAH 9-27-00				

Hg Digestion Log

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571



QUA-4189

PIPET[®] H31609

Serial Number 022 Log Book Number 96-MT-581 Start Time 08/10-208:45

Sample ID	Date Rec'd	Prep Date	Prepared By	Wt/Vol	Sample Type	Run Date	Comments
1. DL0KD	9-25-00	9-27-00	WAH	100ml	WATER	9-27-00	N/A
2. DL0KD5							+1ml 0057-082-3
3. DL0KDD							+1ml 0057-082-3
4. DL0KG							N/A
5. DL0KH							N/A
6. DL0KM							N/A
7. DL0KN							N/A
8. DL0KP							N/A
9. DL3M38	N/A						N/A
10. DL3M3C	9-20-00						0057-082-15
11. DKATE							N/A
12. DKATES							+1ml 0057-082-3
13. DKATED							+1ml 0057-082-3
14. DKATV							N/A
15. DKAV3							N/A
16. DKAV5							N/A
17. DKAV9							N/A
18. DKAVF							N/A
19. DKAVH							N/A
20. DKAVL							N/A
21. DKAVN							N/A
22. DKAVP							N/A
23. DKAVT							N/A
24. DKAVD							N/A
25. DL3MJB	N/A						N/A
Reagents		Vol (ml)				Ref. Number	Method
HNO3	2.5ml					001116CK80DT 6633 TO9A06	7470A/ILMOYD AUTCLAVE 15PSI 120°C
H2SO4	5.0ml					001116CK80DT 5557 AL1A13	SAC12 = 0057-064-15
KMNO4	15.0ml					0057-081-6	ALCL-NH2DH = 0057-018-7
K2S2O4	8.0ml					0057-074-12	WAH 9-27-00
Extract(s)			Extract(s) Received				Extract(s) Relinquished
(Record line number from above)	Date	Time	Analyst	Location	Date	Time	Analyst
			WAH 9-27-00				

Hg Digestion Log

Quanterra Incorporated
450 William Pitt Way
Pittsburgh, Pennsylvania 15238
412/826-5477 FAX: 412/826-5571



6721536

QUA-4189

PIPET # H31609

Serial Number 023 Log Book Number 96-MT-581 Start Time 08:10-7:08:25

Sample ID	Date Rec'd	Prep Date	Prepared By	WV/Vol	Sample Type	Run Date	Comments
1. DL3mJC	N/A	9-27-00	WAH	100ml	WATER	9-27-00	0057-082-16
2. DL3mJL	↓						0057-083-1
3. DKWDL	9-22-00						N/A
4. DKWDP	↓						
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
25.							
Reagents		Vol (mL)			Ref. Number		Method
HNO3	2.5ml				MAIL/UCKROBT 6623 T09A05		7470A/ELM040 AUTOCLAVE 15 PSI 120°C
H2SO4	5.0ml				MAIL/UCKROBT 5557 N21A13		50612-0057-064-15
KMNO4	15.0ml				0057-081-6		MACT-AH20H-0057-078-7
K2S2O4	8.0ml				0057-074-12		WAH 9-27-00
Extract(s)			Extract(s) Received				Extract(s) Relinquished
(Record line number from above)	Date	Time	Analyst	Location	Date	Time	Analyst
			WAH 9-27-00				

6721537

PSR024 9/27/00 5:58:41 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 003

REQUESTED BY: RIZZOC

METHOD: QO Inductively Coupled Plasma (6010B)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	
										RCVD	REQD
13D CLP1	DKVJA	— — —	267285	357464	I-05-QO	C0I220206	001		WATER	0	11 1
13D CLP1	DKVJG	— — —	267286	357464	I-05-QO	C0I220206	002		WATER	0	11 1
13D CLP1	DKVJW	— — —	267224	399411	A-34-QO	C0I220208	001		SOLID	0	3 1
13D CLP1	DKVK3	— — —	267225	399411	A-34-QO	C0I220208	002		SOLID	0	3 1
13D CLP1	DKVK4	— — —	267226	399411	A-34-QO	C0I220208	003		SOLID	0	3 1
14A	DKWMT	— — —	267220	393318	A-34-QO	C0I220315	001		SOLID	0	1 1
14A	DKWMX	— — —	267221	393318	A-34-QO	C0I220315	002		SOLID	0	1 1
14A	DKWNO	— — —	267222	393318	A-34-QO	C0I220315	003		SOLID	0	1 1
14D CLP1	DKXA2	— — —	267273	357464	I-05-QO	C0I230136	001		WATER	0	11 1
14E	DKXPW	— — —	267223	413462	A-34-QO	C0I230167	002		SOLID	0	3 1
15C,D	DL2FR	— — —	267228	415071	I-00-QO	C0I260173	001		WATER	0	3 1
15C,D	DL2FX	— — —	267229	415071	I-00-QO	C0I260173	002		WATER	0	3 1
15C,D	DL2G0	— — —	267230	415071	I-00-QO	C0I260173	003		WATER	0	3 1
15C,D	DL2G1	— — —	267231	415071	I-00-QO	C0I260173	004		WATER	0	3 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

*LC**Cynthia A [Signature]**9-27-00 08:10**Cynthia A [Signature]**9-27-00 11:00*

REQUESTED BY: HOYLEW

METHOD: 08 Mercury (7470A, Cold Vapor) - Liquid

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
		CNTR#								RCVD	REQD
13D CLP1	DKVJW	___	266876	399411	A-0M-08	C01220208	001		SOLID	0	3 1
13D CLP1	DKVK3	___	266877	399411	A-0M-08	C01220208	002		SOLID	0	3 1
13D CLP1	DKVK4	___	266878	399411	A-0M-08	C01220208	003		SOLID	0	3 1
14A	DKWMT	___	266873	393318	A-0M-08	C01220315	001		SOLID	0	1 1
14A	DKWMX	___	266874	393318	A-0M-08	C01220315	002		SOLID	0	1 1
14A	DKWNO	___	266875	393318	A-0M-08	C01220315	003		SOLID	0	1 1
14E	DKXPW	___	266879	413462	A-0M-08	C01230167	002		SOLID	0	3 1

DL26DB

TCLP
LEACHATE

RELINQUISHED BY

RECEIVED BY

DATE/TIME

*William A Hoyle**William A Hoyle*

9-27-00

06:05

*William A Hoyle**William A Hoyle*

9-27-00

07:05

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

6721539

GENERAL CHEMISTRY DATA

UXB INTERNATIONAL

Client Sample ID: DF/24-A/0265/SDC/001

General Chemistry

Lot-Sample #....: C0I220208-001 Work Order #....: DKVJW Matrix.....: SOLID
 Date Sampled....: 09/21/00 Date Received...: 09/22/00
 % Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.4		No Units	SW846 9045C	09/22/00	0266201
				Dilution Factor: 1	MS Run #.....: 0266073	
Ignitability	NO	--	No Units	SW846 SECTION 7.1	09/26/00	0270387
				Dilution Factor: 1	MS Run #.....: 0270185	
Percent Solids	89.0		%	MCAWW 160.3 MOD	09/25-09/26/00	0269158
				Dilution Factor: 1	MS Run #.....: 0269041	
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	09/27/00	0271573
				Dilution Factor: 1	MS Run #.....: 0271298	
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	09/27/00	0271572
				Dilution Factor: 1	MS Run #.....: 0271296	

6721541

UXB INTERNATIONAL

Client Sample ID: DF/24-A/0265/SDC/002

General Chemistry

Lot-Sample #....: C0I220208-002 Work Order #....: DKVK3 Matrix.....: SOLID
Date Sampled....: 09/21/00 Date Received...: 09/22/00
% Moisture.....: 27

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	7.6		No Units	SW846 9045C	09/22/00	0266201
			Dilution Factor: 1	MS Run #.....: 0266073		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	09/26/00	0270387
			Dilution Factor: 1	MS Run #.....: 0270185		
Percent Solids	73.5		%	MCAWW 160.3 MOD	09/25-09/26/00	0269158
			Dilution Factor: 1	MS Run #.....: 0269041		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	09/27/00	0271573
			Dilution Factor: 1	MS Run #.....: 0271298		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	09/27/00	0271572
			Dilution Factor: 1	MS Run #.....: 0271296		

UXB INTERNATIONAL

Client Sample ID: DF/24-A/0265/SDC/003

General Chemistry

Lot-Sample #...: C0I220208-003 Work Order #...: DKVK4 Matrix.....: SOLID
 Date Sampled...: 09/21/00 Date Received...: 09/22/00
 % Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	7.1		No Units	SW846 9045C	09/22/00	0266201
			Dilution Factor: 1	MS Run #.....: 0266073		
Ignitability	NO	--	No Units	SW846 SECTION 7.1	09/26/00	0270387
			Dilution Factor: 1	MS Run #.....: 0270185		
Percent Solids	85.0		%	MCAWW 160.3 MOD	09/25-09/26/00	0269158
			Dilution Factor: 1	MS Run #.....: 0269041		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	09/27/00	0271573
			Dilution Factor: 1	MS Run #.....: 0271298		
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	09/27/00	0271572
			Dilution Factor: 1	MS Run #.....: 0271296		

6721543

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0I220208

Matrix.....: SOLID

<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>
Reactive Cyanide	ND	Work Order #: DL625101 200	mg/kg	MB Lot-Sample #: A0I270000-573 SW846 7.3.3	09/27/00	0271573
		Dilution Factor: 1				
Reactive Sulfide	ND	Work Order #: DL622101 200	mg/kg	MB Lot-Sample #: A0I270000-572 SW846 7.3.4	09/27/00	0271572
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I220208

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	101	Work Order #: DKV18101 (85 - 115)	LCS Lot-Sample#: C0I220000-201 SW846 9045C	09/22/00	0266201
		Dilution Factor: 1			

NOTE(S) :

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

6721545

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: C0I220208

Work Order #....: DKRKG-SMP
DKRKG-DUP

Matrix.....: SOLID

Date Sampled....: 09/20/00

Date Received...: 09/21/00

% Moisture.....: 14

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Ignitability								
			No Units 0	(0-0.0)	SW846 SECTION 7.1	09/26/00		0270387
			Dilution Factor: 1					
			Prep Date.....: 0270185	Analysis Date..:			Prep Batch #....:	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I220208 Work Order #...: DKT6W-SMP Matrix.....: SOLID
Date Sampled...: 09/20/00 Date Received...: 09/21/00
% Moisture.....: 10

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	8.0	8.0	No Units	0.37	(0-20)	SD Lot-Sample #: C0I210287-003 SW846 9045C	09/22/00	0266201

Dilution Factor: 1
Prep Date.....: 0266073 Analysis Date...: Prep Batch #...:

6721547

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I220208 Work Order #...: DKVTQ-SMP Matrix.....: SOLID
DKVTQ-DUP

Date Sampled...: 09/15/00 Date Received...: 09/22/00

% Moisture.....: 100

<u>PARAM RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Reactive Cyanide					SD Lot-Sample #: C0I220233-001		
ND	ND	mg/kg	0.0	(0-20)	SW846 7.3.3	09/27/00	0271573

Dilution Factor: 1

Prep Date.....: 0271298 Analysis Date...: Prep Batch #....:

Reactive Sulfide					SD Lot-Sample #: C0I220233-001		
ND	ND	mg/kg	0.0	(0-20)	SW846 7.3.4	09/27/00	0271572

Dilution Factor: 1

Prep Date.....: 0271296 Analysis Date...: Prep Batch #....:

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0I220208

Work Order #...: DKVXD-SMP
DKVXD-DUP

Matrix.....: SOLID

Date Sampled...: 09/20/00

Date Received...: 09/21/00

% Moisture.....: 16

PARAM RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Solids	84.3	85.2	%	1.0	(0-20)	MCAWW 160.3 MOD	09/25-09/26/00 0269158

SD Lot-Sample #: C0I220242-001

Dilution Factor: 1

Prep Date.....: 0269041

Analysis Date...:

Prep Batch #...:

STL Pittsburgh
pH LOG SHEET

COI 220233

Do I 220208

Lot No. 0F210287

Batch No.

0260201

~~SDG-NY.~~

ex/

92587

Page ____ of ____

Analyst: Cheney / PETALSKOV

Date: 9-22-01

Start Time: 0200

pH Meter Calibration

Reading	Buffer	Manf. Lot No.	Rec'd	Expire
4.00	4.0	LABCHEM 9245-18	5-19-00	9-8-01
2.01	7.0	0062-04	5-19-00	3-1-02
10.04	10.0	0047-16	5-19-00	3-8-01

LCS ID No.: 342-162-3 Exp. 37-02

Relative Percent Difference = 37%

Range = $\pm .05$ pH units

$$\frac{|X_1 - X_2|}{\left(\frac{X_1 + X_2}{2}\right)} \times 100$$

X_1 = Original Result
 X_2 = Duplicate

[illegible]

Sample ID	pH Solid	pH Reading
LCS		7.04
COE 210287-002		7.14
-003		8.00
-003 DP		8.03
-004		5.27
-005		6.85
-006		7.77
-007		7.93
-008		8.04
-009		7.96
LCS		7.05
-010		7.75
-011		8.11
-012		8.00
-013		7.79
-014		7.95
-015		6.02
-016		7.65
LCS		7.05
COI 220208-001		7.39
↓ -002		7.58
↓ -003		7.10
COI 220233-001		7.31
LCS		7.05
26		
9-22-00		

REQUESTED BY: LOHEYDEC

OD: OZ pH (9045C) - Non-Aqueous

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
~~12D~~	~~DKRK6-1-0F~~	~~---~~	~~265812~~	~~054156~~	~~A-88-OZ~~	~~C01210229~~	~~001~~	~~---~~	~~SOLID~~	~~2~~	~~1~~
~~12D CLP1~~	~~DKRH2-1-0G~~	~~---~~	~~265811~~	~~092523~~	~~A-88-OZ~~	~~C01210217~~	~~005~~	~~---~~	~~SOLID~~	~~4~~	~~1~~
13A, CLP1	DKT6R-1-0X	---	265813	375241	A-88-OZ	C01210287	002	---	SOLID	4	1
13A, CLP1	DKT6W-1-2T	---	265814	375241	A-88-OZ	C01210287	003	---	SOLID	4	1
13A, CLP1	DKT7A-1-0X	---	265815	375241	A-88-OZ	C01210287	009	---	SOLID	4	1
13A, CLP1	DKT7C-1-0X	---	265816	375241	A-88-OZ	C01210287	010	---	SOLID	4	1
13A, CLP1	DKT7E-1-0X	---	265817	375241	A-88-OZ	C01210287	011	---	SOLID	4	1
13A, CLP1	DKT7G-1-0X	---	265818	375241	A-88-OZ	C01210287	012	---	SOLID	4	1
13A, CLP1	DKT7H-1-0X	---	265819	375241	A-88-OZ	C01210287	013	---	SOLID	4	1
13A, CLP1	DKT7L-1-0X	---	265820	375241	A-88-OZ	C01210287	014	---	SOLID	3	1
13A, CLP1	DKT7N-1-0X	---	265821	375241	A-88-OZ	C01210287	015	---	SOLID	4	1
13A, CLP1	DKT7O-1-0X	---	265822	375241	A-88-OZ	C01210287	004	---	SOLID	4	1
13A, CLP1	DKT7I-1-0X	---	265823	375241	A-88-OZ	C01210287	005	---	SOLID	4	1
13A, CLP1	DKT7S-1-0X	---	265824	375241	A-88-OZ	C01210287	006	---	SOLID	4	1
13A, CLP1	DKT77-1-0X	---	265825	375241	A-88-OZ	C01210287	007	---	SOLID	4	1
13A, CLP1	DKT78-1-0X	---	265826	375241	A-88-OZ	C01210287	008	---	SOLID	4	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

William A. Hoyle
W. Hoyle

W. Hoyle
W. Hoyle

9-22-00 0600
9-22-00 0800

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

6721551

PSR024 9/22/00 13:38:39 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: GROVEP

OD: OZ pH (9045C) - Non-Aqueous

<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>
13D CLP1	DKVJW-1-0F	___	265951	399411	A-88-OZ	C01220208	001		SOLID	3	1
13D CLP1	DKVK3-1-0F	___	265952	399411	A-88-OZ	C01220208	002		SOLID	3	1
13D CLP1	DKVK4-1-0F	___	265953	399411	A-88-OZ	C01220208	003		SOLID	3	1
13E, 14A	DKVTQ-1-0F	___	265954	054156	A-88-OZ	C01220233	001		SOLID	2	1

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DATE/TIME

9-22-00 15:45

9-22-00 16:00

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

STL Pittsburgh
TOTAL SOLIDS/PERCENT MOISTURE LOG SHEET

6721552

Lot No. Lot No. Lot No. Batch No. Analyst: CLH/HD/DE
COI230169 COI220295 COI220224 0269152 In: Date 9-25-00 Time 0800
COI230170 COI220315 COI220216 0269154 Out: Date 9-26-00 Time 0400
COI230167 COI220242 COI220216 0269158 Balance ID #: C94817
COI210217 COI220208 COI220216 0269158 Oven Temp: 103°C ± 2°C
COI220246 COI210229 COI220216 0269158

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE	SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COI230169-001	64	1.04	6.12	5.58	COI220295-002	38	1.07	7.56	5.84
-001D	13	1.08	6.90	6.29	-003	16	1.03	6.62	5.78
-002	14	1.07	6.84	6.36	COI210229-001	4	1.05	5.12	4.54
COI230170-001	84	1.06	6.34	5.80	COI220224-001	104	1.06	6.56	5.83
-002	49	1.03	7.15	6.35	-002	43	1.03	4.78	4.16
-003	21	1.05	6.40	6.02	COI220216-001	17	1.06	6.07	4.81
COI230167-001	79	1.07	7.59	6.85	-001D	10	1.07	6.51	5.33
-002	28	1.06	6.32	6.31	-002	7	1.05	7.15	4.22
COI210217-001	68	1.05	6.62	5.71	-003	24	1.05	6.22	4.58
-001D	7	1.05	7.30	6.28	-004	95	1.06	6.50	4.81
-002	31	1.06	6.89	6.00	-005	18	1.09	5.94	3.87
-003	62	1.08	6.84	5.87	-006	33	1.06	6.51	4.19
-004	36	1.05	7.31	6.37	-007	39	1.07	7.27	5.36
-006	19	1.06	7.32	6.62	-008	15	1.04	5.84	3.84
COI220246-001	8	1.08	6.17	4.98	-009	107	1.04	5.55	3.59
-002	30	1.04	6.59	5.98					
-003	103	1.06	6.28	5.48					
-004	85	1.08	7.01	6.00					
-005	11	1.05	6.29	5.90					
-006	3	1.05	6.43	5.80					
-007	72	1.05	7.16	6.37					
COI220295-001	100	1.05	6.68	6.00					
-002	76	1.06	6.46	5.78					
COI220315-001	110	1.04	7.06	7.01					
-002	5	1.05	6.51	6.38					
-003	82	1.09	6.37	6.25					
COI220242-001	34	1.06	6.48	5.63					
-001D	101	1.05	6.45	5.65					
-002	9	1.06	6.20	5.82					
-003	2	1.07	6.48	5.73					
-004	51	1.04	6.76	6.03					
-005	67	1.08	6.67	6.02					
-006	42	1.06	7.08	6.32					
-007	23	1.07	6.23	5.75					
-008	106	1.06	6.54	5.85					
COI220208-001	75	1.08	7.81	7.07					

CLH/HD/DE

6721553

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0009015

CREATED 9/26/00 8 37 53 AM

TESTED

CLL

9/25/00

CHECKED

Pmk

9-26-00

REVISED 9/26/00 10 35 02 AM

COMMENTS

C0I230169 C0I230170 C0I230167 C0I210217 C0I220246 C0I220295 C0I220315 C0I220242 C0I220208 C0I210229 C0I220224 C0I220216

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT	TARE NO.	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC	SOLIDS CONTENT CALC.
C0I230169	001	SMP	64	1.04	6.12	5.58	8:00	4:00	0.54	10.63 89.37
C0I230169	001D	SMP	13	1.08	6.9	6.29	8:00	4:00	0.61	10.481 89.519
C0I230169	002	SMP	14	1.07	6.84	6.36	8:00	4:00	0.48	8.319 91.681
C0I230170	001	SMP	84	1.06	6.34	5.8	8:00	4:00	0.54	10.227 89.773
C0I230170	002	SMP	49	1.03	7.15	6.35	8:00	4:00	0.8	13.072 86.928
C0I230170	003	SMP	21	1.05	6.4	6.02	8:00	4:00	0.38	7.103 92.897
C0I230167	001	SMP	79	1.07	7.59	6.85	8:00	4:00	0.74	11.35 88.65
C0I230167	002	SMP	28	1.06	6.32	6.31	8:00	4:00	0.01	0.19 99.81
C0I210217	001	SMP	68	1.05	6.62	5.71	8:00	4:00	0.91	16.338 83.662
C0I210217	001D	SMP	7	1.05	7.3	6.28	8:00	4:00	1.02	16.32 83.68
C0I210217	002	SMP	31	1.06	6.89	6	8:00	4:00	0.89	15.266 84.734
C0I210217	003	SMP	62	1.08	6.84	5.87	8:00	4:00	0.97	16.84 83.16
C0I210217	004	SMP	36	1.05	7.31	6.37	8:00	4:00	0.94	15.016 84.984
C0I210217	006	SMP	19	1.06	7.32	6.62	8:00	4:00	0.7	11.182 88.818
C0I220246	001	SMP	8	1.08	6.17	4.98	8:00	4:00	1.19	23.379 76.621
C0I220246	002	SMP	30	1.04	6.59	5.98	8:00	4:00	0.61	10.991 89.009
C0I220246	003	SMP	103	1.06	6.28	5.48	8:00	4:00	0.8	15.326 84.674
.20246	004	SMP	85	1.08	7.01	6	8:00	4:00	1.01	17.032 82.968

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0009015
 TESTED CL 9/25/00
 CHECKED *[Signature]* 9-26-00

CREATED 9/26/00 8 37 53 AM
 REVISED 9/26/00 10 35 02 AM

COMMENTS

C01230169 C01230170 C01230167 C01210217 C01220246 C01220295 C01220315 C01220242 C01220208 C01210229 C01220224 C01220216

CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC
C01220246	005	SMP	11	1 05	6 29	5 9	8:00	4 00	0 39	7 443	92 557
C01220246	006	SMP	3	1 05	6 43	5 8	8 00	4 00	0 63	11 71	88 29
C01220246	007	SMP	72	1 05	7 16	6.37	8.00	4.00	0 79	12 93	87.07
C01220295	001	SMP	100	1 05	6.68	6	8:00	4.00	0 68	12 078	87.922
C01220295	002	SMP	76	1 06	6 46	5 78	8:00	4 00	0 68	12 593	87 407
C01220315	001	SMP	110	1.04	7.06	7 01	8 00	4:00	0 05	0 831	99 169
220315	002	SMP	5	1.05	6 51	6.38	8 00	4:00	0 13	2.381	97.619
C01220315	003	SMP	82	1 09	6 37	6 25	8 00	4 00	0 12	2 273	97.727
C01220242	001	SMP	34	1 06	6 48	5.63	8 00	4 00	0 85	15 683	84 317
C01220242	001D	SMP	101	1 05	6 45	5 65	8 00	4 00	0 8	14 815	85 185
C01220242	002	SMP	9	1 06	6 7	5.82	8 00	4 00	0 88	15 603	84.397
C01220242	003	SMP	2	1 07	6.48	5.73	8 00	4 00	0 75	13 863	86 137
C01220242	004	SMP	51	1 04	6 76	6 03	8:00	4 00	0 73	12 762	87 238
C01220242	005	SMP	67	1 08	6 67	6 02	8 00	4 00	0 65	11 628	88 372
C01220242	006	SMP	42	1.06	7.08	6 32	8 00	4 00	0 76	12 625	87 375
C01220242	007	SMP	23	1 07	6 23	5 75	8:00	4 00	0 48	9 302	90.698
20242	008	SMP	106	1 06	6 54	5 85	8:00	4 00	0 69	12 591	87 409
C01220208	001	SMP	75	1 08	7 81	7.07	8 00	4 00	0 74	10 996	89 004

6721555

STL - Pittsburgh WATER CONTENT SHEET

SHEET NUM 0009015
 TESTED CLL 9/25/00
 CHECKED PMG 9-26-01

CREATED 9/26/00 8 37 53 AM

REVISED 9/26/00 10 35 02 AM

COMMENTS

C0I230169 C0I230170 C0I230167 C0I210217 C0I220246 C0I220295 C0I220315 C0I220242 C0I220208 C0I210229 C0I220224 C0I220216

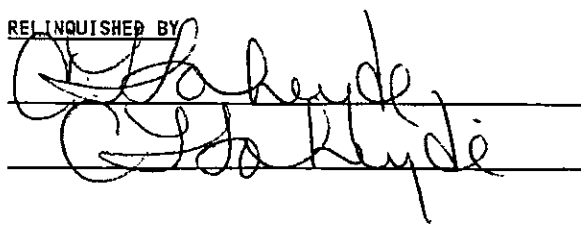
CLIENT SAMPLE IDENTIFICATION	LAB SAMP IDENT.		TARE NO	WEIGHT TARE	WEIGHT TARE + WET SMP	WEIGHT TARE + DRY SAMP	TIME IN	TIME OUT	WEIGHT WATER	WATER CONTENT CALC.	SOLIDS CONTENT CALC
C0I220208	002	SMP	38	1 07	7 56	5 84	8:00	4 00	1 72	26 502	73.498
C0I220208	003	SMP	16	1 03	6.62	5 78	8 00	4 00	0 84	15 027	84 973
C0I220229	001	SMP	4	1 05	5.12	4 54	14 15	4 00	0 58	14 251	85.749
C0I220224	001	SMP	104	1 06	6 56	5 83	14 15	4 00	0 73	13 273	86 727
C0I220224	002	SMP	43	1 03	4 78	4 16	14 15	4 00	0 62	16 533	83 467
C0I220216	001	SMP	17	1 06	6 07	4 81	14 15	4 00	1 26	25 15	74 85
C0I220216	001D	SMP	10	1 07	6 57	5 33	14:15	4 00	1.24	22 545	77 455
C0I220216	002	SMP	1	1 05	7.15	4 22	14 15	4 00	2 93	48 033	51 967
C0I220216	003	SMP	24	1 05	6 22	4 58	14:15	4 00	1.64	31 721	68.279
C0I220216	004	SMP	95	1 06	6 5	4 81	14 15	4 00	1 69	31 066	68 934
C0I220216	005	SMP	18	1 09	5 94	3 87	14 15	4 00	2 07	42 68	57.32
C0I220216	006	SMP	33	1.06	6 51	4 19	14 15	4 00	2 32	42 569	57 431
C0I220216	007	SMP	59	1 07	7 27	5 36	14 15	4:00	1 91	30 806	69.194
C0I220216	008	SMP	15	1 04	5 84	3 84	14 15	4 00	2	41 667	58 333
C0I220216	009	SMP	107	1 04	5.55	3 59	14 15	4 00	1.96	43 459	56 541

REQUESTED BY: LOHETDEC

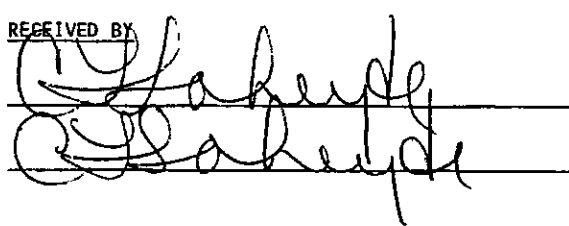
MOD: WM Moisture, Percent (160.3)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
14E	DKXPF-1-03	___	266221	413462	A-88-WM	C01230167	001		SOLID	2	1
14E	DKXPW-1-0A	___	266222	413462	A-88-WM	C01230167	002		SOLID	3	1
14E	DKXRC-1-01	___	266223	413462	A-88-WM	C01230169	002		SOLID	1	1
14E	DKXRE-1-01	___	266224	413462	A-88-WM	C01230170	001		SOLID	1	1
14E	DKXRF-1-01	___	266225	413462	A-88-WM	C01230170	002		SOLID	1	1
14E	DKXRG-1-01	___	266226	413462	A-88-WM	C01230170	003		SOLID	1	1
14E	DKXR7-1-01	___	266227	413462	A-88-WM	C01230169	001		SOLID	1	1

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DATE/TIME

9-25-00 0715
9-25-00 0815

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

REQUESTED BY: LOHEYDEC

MOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

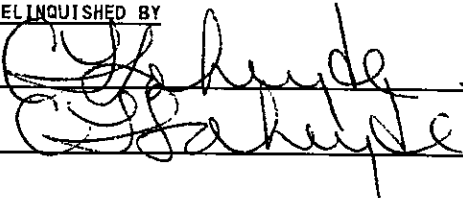
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12D CLP1	DKR8B-1-01	— — —	266241	092523	A-88-SM C01210217	001			SOLID	0	1
12D CLP1	DKRGK-1-01	— — —	266242	092523	A-88-SM C01210217	002			SOLID	0	1
12D CLP1	DKRGN-1-01	— — —	266243	092523	A-88-SM C01210217	003			SOLID	0	1
12D CLP1	DKRGP-1-01	— — —	266244	092523	A-88-SM C01210217	004			SOLID	0	1
12D CLP1	DKRJ9-1-01	— — —	266245	092523	A-88-SM C01210217	006			SOLID	0	2
13D CLP1	DKVJW-1-01	— — —	266266	399411	A-88-SM C01220208	001			SOLID	0	3
13D CLP1	DKVK3-1-01	— — —	266267	399411	A-88-SM C01220208	002			SOLID	0	3
13D CLP1	DKVK4-1-01	— — —	266268	399411	A-88-SM C01220208	003			SOLID	0	3
14A	DKVXD-1-01	— — —	266258	396447	A-88-SM C01220242	001			SOLID	0	1
14A	DKVXL-1-01	— — —	266259	396447	A-88-SM C01220242	002			SOLID	0	1
14A	DKVXP-1-01	— — —	266260	396447	A-88-SM C01220242	003			SOLID	0	1
14A	DKVXQ-1-01	— — —	266261	396447	A-88-SM C01220242	004			SOLID	0	1
14A	DKVXV-1-01	— — —	266262	396447	A-88-SM C01220242	005			SOLID	0	1
14A	DKVXX-1-01	— — —	266263	396447	A-88-SM C01220242	006			SOLID	0	1
14A	DKW00-1-01	— — —	266264	396447	A-88-SM C01220242	007			SOLID	0	1
14A	DKW02-1-01	— — —	266265	396447	A-88-SM C01220242	008			SOLID	0	1
14A	DKW0L-1-09	— — —	266246	396447	A-88-SM C01220246	001			SOLID	0	1
14A	DKW17-1-09	— — —	266247	396447	A-88-SM C01220246	002			SOLID	0	1
14A	DKW1A-1-09	— — —	266248	396447	A-88-SM C01220246	003			SOLID	0	1
14A	DKW1C-1-09	— — —	266249	396447	A-88-SM C01220246	004			SOLID	0	1
14A	DKW1G-1-01	— — —	266250	396447	A-88-SM C01220246	005			SOLID	0	1
14A	DKW1J-1-09	— — —	266251	396447	A-88-SM C01220246	006			SOLID	0	1
14A	DKW1K-1-09	— — —	266252	396447	A-88-SM C01220246	007			SOLID	0	1
B	DKWFL-1-01	— — —	266253	020247	A-88-SM C01220295	001			SOLID	0	3
14A,B	DKWFL-1-01	— — —	266254	020247	A-88-SM C01220295	002			SOLID	0	3
14A	DKWMT-1-0D	— — —	266255	393318	A-88-SM C01220315	001			SOLID	0	1

REQUESTED BY: LOHEYDEC

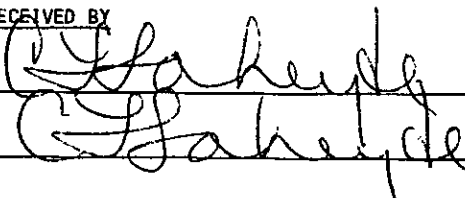
MOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
		CNTR#								RCVD	REQD
14A	DKWMX-1-00	___	266256	393318	A-88-SM	C01220315	002		SOLID	0	1
14A	DKWNO-1-00	___	266257	393318	A-88-SM	C01220315	003		SOLID	0	1

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DATE/TIME

9-25-00 0715
9-25-00 0815

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

6721559

PSR024

9/25/00

11:48:34 MT

SAMPLE CUSTODIAN REMOVAL REQUEST

PAGE 001

REQUESTED BY: LOHEYDEC

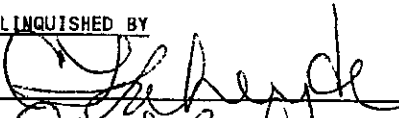
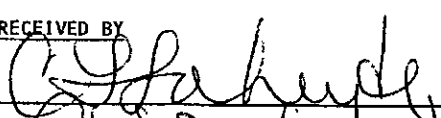
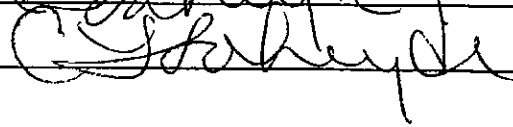
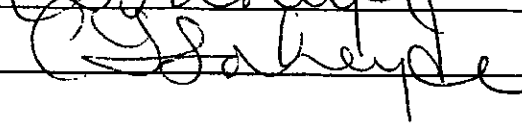
MOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
13D,E	DKVLW-1-01	___	266564	054156	A-88-SM	C01220216	001		SOLID	0	1 1
13D,E	DKVM3-1-01	___	266565	054156	A-88-SM	C01220216	002		SOLID	0	1 1
13D,E	DKVM4-1-01	___	266566	054156	A-88-SM	C01220216	003		SOLID	0	1 1
13D,E	DKVM6-1-01	___	266567	054156	A-88-SM	C01220216	004		SOLID	0	1 1
13D,E	DKVM7-1-01	___	266568	054156	A-88-SM	C01220216	005		SOLID	0	1 1
13D,E	DKVM9-1-01	___	266569	054156	A-88-SM	C01220216	006		SOLID	0	1 1
13D,E	DKVMF-1-01	___	266570	054156	A-88-SM	C01220216	007		SOLID	0	1 1
13D,E	DKVMH-1-01	___	266571	054156	A-88-SM	C01220216	008		SOLID	0	1 1
13D,E	DKVMK-1-01	___	266572	054156	A-88-SM	C01220216	009		SOLID	0	1 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME



9-25-00 1345
9-25-00 1430

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

REQUESTED BY: LONEYDEC

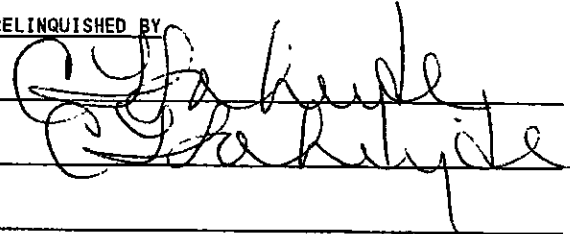
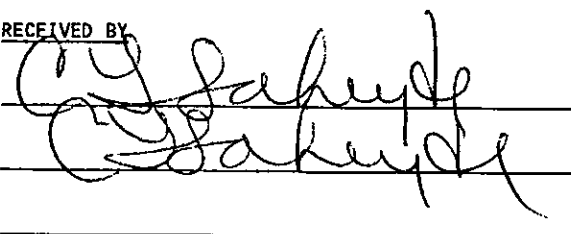
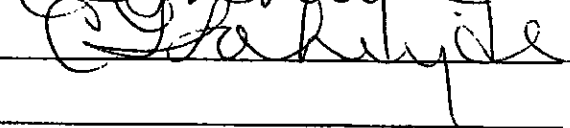
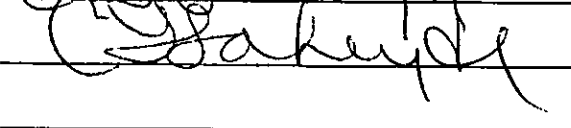
'OD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY	QTY
										RCVD	REQD
12D	DKRKG-1-0K	___	266537	054156	A-88-SM	C01210229	001		SOLID	0	2 1
13D,E CLP1	DKVQK-1-01	___	266535	092523	A-88-SM	C01220224	001		SOLID	0	5 1
13D,E CLP1	DKVQM-1-01	___	266536	092523	A-88-SM	C01220224	002		SOLID	0	5 1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

		9-25-00 1345
		9-25-00 1430

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

6721561

Ignitability

Method: Ignitability (SW7-1.2)STL Pittsburgh
450 William Pitt Way
Pittsburgh, PA 15238

ANALYST: <u>[Signature]</u>	DATE: <u>9-26-00</u>
BATCH: <u>0270387</u>	TIME: <u>14:50</u>

SAMPLE ID	RESULT
<u>COI210229-001</u>	<u>YES</u>
<u>↓ -001 DUP</u>	<u>YES</u>
<u>COI210217-005</u>	<u>NO</u>
<u>COI220208-001</u>	<u>NO</u>
<u>↓ -002</u>	<u>NO</u>
<u>↓ -003</u>	<u>NO</u>
<u>COI220233-001</u>	<u>NO</u>

Reviewed by [Signature]Date 9-26-00

WC-00-0060

Page 14 of 100

REQUESTED BY: GROVEP

METHOD: IQ Ignitability (SW7.1.2)

<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>
12D	DKRKG-1-0G	___	266986	054156	A-88-IQ	C01210229	001		SOLID	2	1
12D CLP1	DKRH2-1-0F	___	266985	092523	A-88-IQ	C01210217	005		SOLID	4	1
13D CLP1	DKVJW-1-0G	___	266987	399411	A-88-IQ	C01220208	001		SOLID	3	1
13D CLP1	DKVK3-1-0G	___	266988	399411	A-88-IQ	C01220208	002		SOLID	3	1
13D CLP1	DKVK4-1-0G	___	266989	399411	A-88-IQ	C01220208	003		SOLID	3	1
13E, 14A	DKVTQ-1-0G	___	266990	054156	A-88-IQ	C01220233	001		SOLID	2	1

RELINQUISHED BY

RECEIVED BY

DATE/TIME

9-26-00 14:55

9-26-00 15:25

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

6721563

TITRIMETRIC LOGSHEET

Analysis Reactive SulfidePrep/ Anal. Date 9/27/00Analyst Batch Number 0271572LCS Number LCS Prep Date RL 200 mg/kgTitrant Name Sodium ThiosulfateTitrant Normality 0.2508Titrant Standardization Date/ Initials 9.22.00 / MFG

iodine .02796 N

TA 9.26.00

Sample Number	Sample Volume	Dil.	Titrant Vol (mL)	Final Conc.	Units	QC Calculations and Comments
Blank	10g		22.1	11.728	mg/kg	
DKVTQ			22.3	0.335		
DKVTQ - DUP			22.3			
DKRH2			22.3			
DKRKG			22.4	-10.368		ND
DKXFL			22.4	-10.368		ND
DKVJW			22.3	0.335		
DKVK3			22.3			
DKVK4			22.3			
DKXFR			22.4	-10.368		ND
DKX9F			22.3	0.335		
MFG 09/27/00						

TITRIMETRIC LOGSHEET

6721564

Analysis Reactive CyanideBatch Number 0271573Prep/ Anal. Date 9/27/00LCS Number —Analyst TA/MFGLCS Prep Date —RL 200 mg/kgTitrant Name Silver NitrateTitrant Normality .0192Titrant Standardization Date/ Initials — / —

Sample Number	Sample Volume	Dil.	Titrant Vol (mL)	Final Conc.	Units	QC Calculations and Comments
Blank	10g		.05	6.25	µg/L	
DKVTQ			.05			
DKVTQ-DUP			.05			
DKRH2			.05			
DKRKG			.05			
DKXFL			.05			
DKVJW			.05			
DKVK3			.05			
DKVK4			.05			
DKXFR			.05			
DKX9F			.05			
0271573						

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE