Return to Navigator

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. CUMMINGS RITER

CummingsRiter-Viacom-Horsehead

Lot #: C0J200201

Bruce Geno/Bill Smith

Cummings-Riter Consultants Inc

SEVERN TRENT LABORATORIES, INC.

Carrie L. Gamber
Project Manager

November 10, 2000

CASE NARRATIVE

CUMMINGS RITER
CummingsRiter-Viacom-Horsehead

STL Lot # C0J200201

Sample Receiving:
STL Pittsburgh received a sample for analysis on October 20, 2000. The cooler was within the proper temperature range.

GC/MS Semivolatiles:
Sample PXS-8A was re-extracted due to the matrix spike and matrix spike duplicate for this sample having target compound concentration at a greater level than the sample itself. There was only sufficient sample remaining to re extract the sample. The re extraction was done within the holding time and comparable to the original sample, but not to the matrix spike and matrix spike duplicate. Both sets of data are reported.

Due to the concentration of target compounds detected, sample PXS-9A was analyzed at a 4X dilution.

The laboratory control standard for batch 0295166 had a recovery for pentachlorophenol that was high and outside of the control limits. A laboratory control standard is not required for this method. All data was reported.

The matrix spike for sample PXS-8A had the recoveries of pyrene and pentachlorophenol outside of the control limits.

The matrix spike duplicate for sample PXS-8A had the recoveries of pyrene and 2,4-dinitrotoluene outside of the control limits.

Metals:
The metals data was reported with lot C0J190175.

General Chemistry:
There were no problems associated with the analysis.

METHODS SUMMARY

C0J200201

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
CLP Semi-Volatile Organic Compounds (OLM04.2)	OCLP OLM04.2	
Inductively Coupled Plasma	ICLP ILM04.0	ICLP ILM04.0
Percent Moisture Determination Procedure	ICLP ILM04.0	ICLP ILM04.0

References:

ICLP USEPA Contract Laboratory Program Statement of Work for Inorganics Analysis, Multi-Media, Multi-Concentration.

OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

SAMPLE SUMMARY

C0J200201

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DNHW6	001	PXS-8A	10/19/00	16:30
DNHW7	002	PXS-9A	10/19/00	16:35

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.

[redacted]

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0700)

Client: Cummings Riter	Project Manager: Bill Smith	Date: 10/19/00	Chain of Custody Number: 002611
Address: 339 Haymaker Rd	Telephone Number (Area Code)/Fax Number: (412) 373-5242 / (412) 373-5242	Lab Number:	Page 1 of 1
City: Monroeville; State: PA; Zip Code: 15146	Site Contact: Bruce Geno	Lab Contact: Carole Comber	
Project Name and Location (State): Horseheads DAF	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Select PAH	Air	Special Instructions/ Conditions of Receipt
PXS-8A	10/19/00	1630				X							X	X	
PXS-9A	10/19/00	1635				X							X	X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [ ] Disposal By Lab [ ] Archive For _____ Months (A lee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [X] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify): Custody Seal No: 173441

1. Relinquished By: B Mora	Date: 10/19/00	Time: 1830	1. Received By: Fed Ex	Date: 10/19/00	Time: 1830
2. Relinquished By:	Date:	Time:	2. Received By:	Date: 10/20/00	Time: 09:30
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

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

Cooler Receipt Form

STL Pittsburgh

Client: Cuney Rutter Project: _____ Quote: _____

Cooler Rec'd & Opened for Temp. Check on: 10/20/10

Coolers Opened and Unpacked on: 10/20/10 By _____

(Signature)

STL Pittsburgh Lot Number: COJ200201

		Yes	No
1.	Were custody seals on the outside of the cooler?	✓	
	If YES, how many and where? Quantity __ Location Rear		
	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? Bubble	✓	
	If YES, what type?		
7.	Were the samples chilled? (Record temperatures on reverse side.)	✓	
8.	Were the samples appropriately preserved?	NA	
9.	Were all bottles sealed in separate plastic bags?		✓
10.	Did all bottles arrive in good condition (unbroken)?	✓	
11.	Were all bottle labels complete (sample ID, preservatives, etc.)?	✓	
12.	Did all bottle labels and/or tags agree with custody papers?	✓	
13.	Were correct bottles used for tests indicated?	✓	
14.	Were all VOA vials checked for the presence of air bubbles?	✓	
15.	Was a sufficient amount of sample sent in each bottle?	✓	

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

Explain any discrepancies: _____

Level 2 Review _____

Was contacted on _____ by _____ to resolve discrepancies.

P: Preserved
UP: Unpreserved

Sample ID	TMET PH<2	DMET PH<2	HG PH<2	NUT(1) PH<2	CN PH ≥12	OG TPHC PH<2	PHEN PH<2	SULF PH ≥12	TOC PH<2	TOX PH<2	VOA P/UP	hrdnss PH<2			

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

Comments: _____

Cooler Number	Temperature
	3°

Bottle Type	Lot Number*

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

STL Pittsburgh

FedEx USA Airbill

FedEx Tracking Number 8226 4665 4939

Form I.D. No. 0200

1 From

Date 10/13/00

Sender's Name Bruce Gold Phone 412 373-5240

Company Cummings Riter for Viacom Inc

Address 339 Haymaker Rd Ste 201

Dept./Floor/Suite/Room

City Monroeville State PA ZIP 15146

2 Your Internal Billing Reference Horseheads NY Remediation

3 To

Recipient's Name Sample Receiving Phone 412 826-8380

Company Severn Trent

Address 4450 William Pitt Way

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Pittsburgh State PA ZIP 15238

8226 4665 4939

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* — Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain Recip. Acct. No.

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	52 LB	$ .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

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

Questions? Call 1·800·Go·FedEx (800-463-3339)

Visit our Web site at www.fedex.com

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360

DATA SUMMARY PACKAGE

GC/MS SEMIVOLATILE SUMMARY

CUMMINGS-RITER CONSULTANTS INC

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J200201 001
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNHW61AC Date Extracted:10/22/00
Dilution factor: 1 Date Analyzed: 10/25/00
Moisture %:11

QC Batch: 0295166

Client Sample Id: PXS-8A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	370	U
95-57-8	2-Chlorophenol	370	U
621-64-7	N-Nitrosodi-n-propylamine	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
83-32-9	Acenaphthene	370	U
100-02-7	4-Nitrophenol	930	U
121-14-2	2,4-Dinitrotoluene	370	U
87-86-5	Pentachlorophenol	930	U
129-00-0	**Pyrene**	**410**	
56-55-3	**Benzo(a)anthracene**	**260**	**J**
205-99-2	**Benzo(b)fluoranthene**	**230**	**J**
50-32-8	**Benzo(a)pyrene**	**240**	**J**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**130**	**J**

FORM I

CUMMINGS-RITER CONSULTANTS INC
MATRIX SPIKE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J200201 001
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNHW61AE Date Extracted:10/22/00
Dilution factor: 1 Date Analyzed: 10/25/00
Moisture %:11

QC Batch: 0295166

Client Sample Id: PXS-8A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1460	
95-57-8	2-Chlorophenol	1450	
621-64-7	N-Nitrosodi-n-propylamine	1120	
59-50-7	4-Chloro-3-methylphenol	1980	
83-32-9	Acenaphthene	1650	
100-02-7	4-Nitrophenol	2800	
121-14-2	2,4-Dinitrotoluene	1620	
87-86-5	Pentachlorophenol	3300	a
129-00-0	Pyrene	4090	a

CUMMINGS-RITER CONSULTANTS INC
MATRIX SPIKE DUPLICATE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J200201 001
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNHW61AF Date Extracted:10/22/00
Dilution factor: 1 Date Analyzed: 10/25/00
Moisture %:11

QC Batch: 0295166

Client Sample Id: PXS-8A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1490	
95-57-8	2-Chlorophenol	1550	
621-64-7	N-Nitrosodi-n-propylamine	1230	
59-50-7	4-Chloro-3-methylphenol	1940	
83-32-9	Acenaphthene	1700	
100-02-7	4-Nitrophenol	2490	
121-14-2	2,4-Dinitrotoluene	1750	a
87-86-5	Pentachlorophenol	2720	
129-00-0	Pyrene	4850	a

CUMMINGS-RITER CONSULTANTS INC

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J200201 001 RE
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNHW62AC Date Extracted:10/25/00
Dilution factor: 1 Date Analyzed: 10/26/00
Moisture %:11

QC Batch: 0299576

Client Sample Id: PXS-8A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	230	J
205-99-2	Benzo(b)fluoranthene	240	J
50-32-8	Benzo(a)pyrene	230	J
193-39-5	Indeno(1,2,3-cd)pyrene	200	J

CUMMINGS-RITER CONSULTANTS INC

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J200201 002
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNHW71AC Date Extracted:10/22/00
Dilution factor: 4 Date Analyzed: 10/25/00
Moisture %:13

QC Batch: 0295166

Client Sample Id: PXS-9A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	7300	
205-99-2	Benzo(b)fluoranthene	7300	
50-32-8	Benzo(a)pyrene	6300	
193-39-5	Indeno(1,2,3-cd)pyrene	4800	

CUMMINGS-RITER CONSULTANTS INC
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J210000 166
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNKK01AC Date Extracted:10/22/00
Dilution factor: 1 Date Analyzed: 10/25/00
Moisture %:NA

QC Batch: 0295166

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1620	
95-57-8	2-Chlorophenol	1750	
621-64-7	N-Nitrosodi-n-propylamine	1220	
59-50-7	4-Chloro-3-methylphenol	1900	
83-32-9	Acenaphthene	1320	
100-02-7	4-Nitrophenol	2160	
121-14-2	2,4-Dinitrotoluene	1250	
87-86-5	Pentachlorophenol	3050	a
129-00-0	Pyrene	1080	

CUMMINGS-RITER CONSULTANTS INC
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J250000 576
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00
Work Order: DNQ8E1AC Date Extracted:10/25/00
Dilution factor: 1 Date Analyzed: 10/26/00
Moisture %:NA

QC Batch: 0299576

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1530	
95-57-8	2-Chlorophenol	1630	
621-64-7	N-Nitrosodi-n-propylamine	1270	
59-50-7	4-Chloro-3-methylphenol	1760	
83-32-9	Acenaphthene	1150	
100-02-7	4-Nitrophenol	1890	
121-14-2	2,4-Dinitrotoluene	1290	
87-86-5	Pentachlorophenol	1970	
129-00-0	Pyrene	1310	

OCLP OLM04.2 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT QESSDG:

Lot #: C0J200201

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	SRG07	SRG08	TOT OUT
01	PXS-8A	42	54	31	75	39	65	42	36	00
02	PXS-8A RE-1	36	40	26	60	37	70	36	31	00
03	PXS-9A	51	68	31	79	46	86	50	39	00
04	INTRA-LAB QC	32	39	24 *	61	34	66	34	29	01
05	METHOD BLK. DNKK01AA	60	64	57	81	60	63	59	58	00
06	METHOD BLK. DNQ8E1AA	72	70	68	81	82	83	74	74	00
07	LCS DNKK01AC	68	69	68	80	67	57	65	68	00
08	LCS DNQ8E1AC	62	61	58	71	68	76	62	62	00
09	PXS-8A D	62	73	44	90	56	84	56	54	00
10	LAB MS/MSD D	46	53	36	76	48	80	47	43	00
11	PXS-8A S	59	71	43	85	52	69	54	51	00
12	LAB MS/MSD S	48	55	37	78	50	82	48	44	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(23-120)
SRG02	= 2-Fluorobiphenyl	(30-115)
SRG03	= 2-Fluorophenol	(25-121)
SRG04	= 2,4,6-Tribromophenol	(19-122)
SRG05	= 2-Chlorophenol-d4	(20-130)
SRG06	= Terphenyl-d14	(18-137)
SRG07	= Phenol-d5	(24-113)
SRG08	= 1,2-Dichlorobenzene-d4	(20-130)

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

FORM II

OCLP OLM04.2 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Lot #: C0J210000 WO #: DNKK01AC
BATCH: 0295166

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Phenol	2500	1620	65	26 - 90	
2-Chlorophenol	2500	1750	70	25 - 102	
N-Nitrosodi-n-propylamine	1670	1220	73	41 - 126	
4-Chloro-3-methylphenol	2500	1900	76	26 - 103	
Acenaphthene	1670	1320	79	31 - 137	
4-Nitrophenol	2500	2160	86	11 - 114	
2,4-Dinitrotoluene	1670	1250	75	28 - 89	
Pentachlorophenol	2500	3050	122*	17 - 109	a
Pyrene	1670	1080	65	35 - 142	

NOTES (S) :

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 1 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Lot #: C0J250000 WO #: DNQ8E1AC
BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Phenol	2500	1530	61	26- 90	
2-Chlorophenol	2500	1630	65	25- 102	
N-Nitrosodi-n-propylamine	1670	1270	76	41- 126	
4-Chloro-3-methylphenol	2500	1760	70	26- 103	
Acenaphthene	1670	1150	69	31- 137	
4-Nitrophenol	2500	1890	76	11- 114	
2,4-Dinitrotoluene	1670	1290	77	28- 89	
Pentachlorophenol	2500	1970	79	17- 109	
Pyrene	1670	1310	79	35- 142	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Matrix Spike ID: PXS-8A Level:(low/med) LOW

Lot #: C0J200201 WO #: DNHW61AE
BATCH: 0295166

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Phenol	2810	ND	1460	52	26- 90	
2-Chlorophenol	2810	ND	1450	51	25- 102	
N-Nitrosodi-n-propylamine	1870	ND	1120	60	41- 126	
4-Chloro-3-methylphenol	2810	ND	1980	70	26- 103	
Acenaphthene	1870	ND	1650	88	31- 137	
4-Nitrophenol	2810	ND	2800	100	11- 114	
2,4-Dinitrotoluene	1870	ND	1620	86	28- 89	
Pentachlorophenol	2810	ND	3300	117*	17- 109	a
Pyrene	1870	410	4090	197*	35- 142	a

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

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

RPD: 0 out of 0 outside limits
Spike Recovery: 2 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Matrix Spike ID: PXS-8A Level:(low/med) LOW

Lot #: C0J200201 WO #: DNHW61AF
BATCH: 0295166

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Phenol	2810	1490	53	2.6		35	26- 90	
2-Chlorophenol	2810	1550	55	7.3		50	25- 102	
N-Nitrosodi-n-propylamine	1870	1230	66	10		38	41- 126	
4-Chloro-3-methylphenol	2810	1940	69	1.7		33	26- 103	
Acenaphthene	1870	1700	91	3.0		19	31- 137	
4-Nitrophenol	2810	2490	89	12		50	11- 114	
2,4-Dinitrotoluene	1870	1750	93*	7.8		47	28- 89	a
Pentachlorophenol	2810	2720	97	19		47	17- 109	
Pyrene	1870	4850	237*	17		36	35- 142	a

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

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

RPD: 0 out of 9 outside limits
Spike Recovery: 2 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0J240227 WO #: DNNGD1AH
BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Phenol	2750	ND	1250	45	26- 90	
2-Chlorophenol	2750	ND	1250	45	25- 102	
N-Nitrosodi-n-propylamine	1840	ND	980	53	41- 126	
4-Chloro-3-methylphenol	2750	ND	1760	64	26- 103	
Acenaphthene	1840	ND	1160	63	31- 137	
4-Nitrophenol	2750	ND	2190	79	11- 114	
2,4-Dinitrotoluene	1840	ND	1360	74	28- 89	
Pentachlorophenol	2750	ND	2500	91	17- 109	
Pyrene	1840	65	1570	82	35- 142	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

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 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C0J240227 WO #: DNNGD1AJ
BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Phenol	2750	1230	44	1.7		35	26- 90	
2-Chlorophenol	2750	1220	44	2.4		50	25- 102	
N-Nitrosodi-n-propylamine	1840	965	53	1.5		38	41- 126	
4-Chloro-3-methylphenol	2750	1730	63	1.7		33	26- 103	
Acenaphthene	1840	1110	61	3.9		19	31- 137	
4-Nitrophenol	2750	2130	77	2.8		50	11- 114	
2,4-Dinitrotoluene	1840	1290	70	5.1		47	28- 89	
Pentachlorophenol	2750	2450	89	1.9		47	17- 109	
Pyrene	1840	1550	81	1.7		36	35- 142	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

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

RPD: 0 out of 9 outside limits
Spike Recovery: 0 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DNKK01AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT | SDG Number:

Lab File ID: D1024021. | Lot Number: C0J200201

Date Analyzed: 10/25/00 | Time Analyzed: 02:58

Matrix: SOLID | Date Extracted:10/22/00

GC Column: HP5MS ID: .25 | Extraction Method:

Instrument ID: 721 | Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PXS-8A	DNHW61AC	D1024023.	10/25/00	04:01
02	PXS-8A	DNHW61AE S	D1024024.	10/25/00	04:32
03	PXS-8A	DNHW61AF D	D1025004.	10/25/00	15:51
04	PXS-9A	DNHW71AC	D1025005.	10/25/00	16:22
05	CHECK SAMPLE	DNKK01AC C	D1024022.	10/25/00	03:29
06					
07					
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28					
29					
30					

COMMENTS:

FORM IV

CUMMINGS-RITER CONSULTANTS INC
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J210000 166
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNKK01AA Date Extracted:10/22/00
Dilution factor: 1 Date Analyzed: 10/25/00
Moisture %:NA

QC Batch: 0295166

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U

OCLP OLM04.2 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DNQ8E1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT — SDG Number:

Lab File ID: D1026003. — Lot Number: C0J200201

Date Analyzed: 10/26/00 — Time Analyzed: 15:40

Matrix: SOLID — Date Extracted:10/25/00

GC Column: HP5MS ID: .25 — Extraction Method:

Instrument ID: 721 — Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PXS-8A	DNHW62AC	D1026010.	10/26/00	19:22
02	INTRA-LAB QC	DNNGD1AC	D1026005.	10/26/00	16:43
03	LAB MS/MSD	DNNGD1AH S	D1026006.	10/26/00	17:15
04	LAB MS/MSD	DNNGD1AJ D	D1026007.	10/26/00	17:47
05	CHECK SAMPLE	DNQ8E1AC C	D1026004.	10/26/00	16:11
06					
07					
08					
09					
10					
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28					
29					
30					

COMMENTS:

FORM IV

CUMMINGS-RITER CONSULTANTS INC
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J250000 576
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00
Work Order: DNQ8E1AA Date Extracted:10/25/00
Dilution factor: 1 Date Analyzed: 10/26/00
Moisture %:NA

QC Batch: 0299576

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U

FORM I

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 10/24/00

Lab File ID (Standard): D1024CC7 Time Analyzed: 1705

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	127375	4.58	487214	5.80	226116	8.35
	UPPER LIMIT	254750	5.08	974428	6.30	452232	8.85
	LOWER LIMIT	63688	4.08	243607	5.30	113058	7.85
	EPA SAMPLE NO.						
01	INTRA-LAB BL	141302	4.58	495702	5.79	218637	8.35
02	LCS	138356	4.59	509038	5.80	228868	8.34
03	PXS-8A	143621	4.58	502537	5.79	220943	8.35
04	PXS-8AMS	137756	4.58	487873	5.79	215412	8.35
05							
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 10/24/00

Lab File ID (Standard): D1024CC7 Time Analyzed: 1705

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	371440	11.23	314386	17.07	260354	20.03
	UPPER LIMIT	742880	11.73	628772	17.57	520708	20.53
	LOWER LIMIT	185720	10.73	157193	16.57	130177	19.53
	EPA SAMPLE NO.						
01	INTRA-LAB BL	356937	11.22	454086	17.06	448576	20.03
02	LCS	373849	11.22	475259	17.06	468902	20.04
03	PXS-8A	358528	11.22	449453	17.07	445411	20.04
04	PXS-8AMS	351371	11.23	447948	17.10	428933	20.07
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 10/25/00

Lab File ID (Standard): D1025CCC Time Analyzed: 1314

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	128368	4.56	485682	5.78	225161	8.33
	UPPER LIMIT	256736	5.06	971364	6.28	450322	8.83
	LOWER LIMIT	64184	4.06	242841	5.28	112581	7.83
	EPA SAMPLE NO.						
01	PXS-8AMSD	144963	4.57	535919	5.78	242503	8.33
02	PXS-9A	145271	4.57	529165	5.78	238720	8.33
03							
04							
05							
06							
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19							
20							
21							
22							

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

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

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

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 10/25/00

Lab File ID (Standard): D1025CCC Time Analyzed: 1314

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	387488		11.20		347939		17.05		295404		20.01	
	UPPER LIMIT	774976		11.70		695878		17.55		590808		20.51	
	LOWER LIMIT	193744		10.70		173970		16.55		147702		19.51	
	EPA SAMPLE NO.												
01	PXS-8AMSD	385879		11.21		401610		17.08		482252		20.06	
02	PXS-9A	385649		11.21		394066		17.07		467955		20.05	
03													
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD50 Date Analyzed: 10/26/00

Lab File ID (Standard): D1026CC3 Time Analyzed: 1507

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	131693	4.56	513728	5.78	255228	8.33
	UPPER LIMIT	263386	5.06	1027456	6.28	510456	8.83
	LOWER LIMIT	65847	4.06	256864	5.28	127614	7.83
	EPA SAMPLE NO.						
01	INTRA-LAB BL	140024	4.56	571749	5.78	296023	8.33
02	LCS	142188	4.57	586371	5.78	304544	8.34
03	PXS-8A	159368	4.56	614672	5.78	310283	8.33
04							
05							
06							
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20							
21							
22							

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

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

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

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD50 Date Analyzed: 10/26/00

Lab File ID (Standard): D1026CC3 Time Analyzed: 1507

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	452256	11.21	443796	17.05	405513	20.02
	UPPER LIMIT	904512	11.71	887592	17.55	811026	20.52
	LOWER LIMIT	226128	10.71	221898	16.55	202757	19.52
	EPA SAMPLE NO.						
01	INTRA-LAB BL	528840	11.21	540617	17.05	484161	20.01
02	LCS	537849	11.21	541888	17.04	493418	20.02
03	PXS-8A	524079	11.21	499305	17.05	445924	20.02
04							
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

GENERAL CHEMISTRY SUMMARY

CUMMINGS-RITER CONSULTANTS INC

Client Sample ID: PXS-8A

General Chemistry

Lot-Sample #...: C0J200201-001 Work Order #...: DNHW6 Matrix.....: SOLID
Date Sampled...: 10/19/00 Date Received..: 10/20/00
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	11.0		%	ICLP ILM04.0	10/20-10/21/00	0294227

Dilution Factor: 1 MS Run #.....: 0294097

CUMMINGS-RITER CONSULTANTS INC

Client Sample ID: PXS-9A

General Chemistry

Lot-Sample #...: C0J200201-002 **Work Order #...:** DNHW7 **Matrix.....:** SOLID
Date Sampled...: 10/19/00 **Date Received..:** 10/20/00
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**13.2**		**%**	**ICLP ILM04.0**	**10/20-10/21/00**	**0294227**

Dilution Factor: 1 MS Run #.....: 0294097

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J200201 **Work Order #...:** DNDHG-SMP DNDHG-DUP **Matrix.....:** SOLID

Date Sampled...: 10/17/00 **Date Received..:** 10/18/00

% Moisture.....: 23

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #: C0J180294-018		
	22.7	22.8	%	0.28	(0-0.0)	ICLP ILM04.0	10/20-10/21/00	0294227

Dilution Factor: 1

Prep Date.....: 0294097 Analysis Date..: Prep Batch #...:

GC/MS SEMIVOLATILE DATA

GC/MS SEMIVOLATILE
QC SUMMARY

OCLP OLM04.2 SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT QESSDG:

Lot #: C0J200201

	CLIENT ID.	SRG01	SRG02	SRG03	SRG04	SRG05	SRG06	SRG07	SRG08	TOT OUT
01	PXS-8A	42	54	31	75	39	65	42	36	00
02	PXS-8A RE-1	36	40	26	60	37	70	36	31	00
03	PXS-9A	51	68	31	79	46	86	50	39	00
04	INTRA-LAB QC	32	39	24 *	61	34	66	34	29	01
05	METHOD BLK. DNKK01AA	60	64	57	81	60	63	59	58	00
06	METHOD BLK. DNQ8E1AA	72	70	68	81	82	83	74	74	00
07	LCS DNKK01AC	68	69	68	80	67	57	65	68	00
08	LCS DNQ8E1AC	62	61	58	71	68	76	62	62	00
09	PXS-8A D	62	73	44	90	56	84	56	54	00
10	LAB MS/MSD D	46	53	36	76	48	80	47	43	00
11	PXS-8A S	59	71	43	85	52	69	54	51	00
12	LAB MS/MSD S	48	55	37	78	50	82	48	44	00

SURROGATES		QC LIMITS
SRG01	= Nitrobenzene-d5	(23-120)
SRG02	= 2-Fluorobiphenyl	(30-115)
SRG03	= 2-Fluorophenol	(25-121)
SRG04	= 2,4,6-Tribromophenol	(19-122)
SRG05	= 2-Chlorophenol-d4	(20-130)
SRG06	= Terphenyl-d14	(18-137)
SRG07	= Phenol-d5	(24-113)
SRG08	= 1,2-Dichlorobenzene-d4	(20-130)

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

FORM II

OCLP OLM04.2 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Lot #: C0J210000 WO #: DNKK01AC
BATCH: 0295166

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Phenol	2500	1620	65	26- 90	
2-Chlorophenol	2500	1750	70	25- 102	
N-Nitrosodi-n-propylamine	1670	1220	73	41- 126	
4-Chloro-3-methylphenol	2500	1900	76	26- 103	
Acenaphthene	1670	1320	79	31- 137	
4-Nitrophenol	2500	2160	86	11- 114	
2,4-Dinitrotoluene	1670	1250	75	28- 89	
Pentachlorophenol	2500	3050	122*	17- 109	a
Pyrene	1670	1080	65	35- 142	

NOTES(S):

a Spiked analyte recovery is outside stated control limits.

* Values outside of QC limits

Spike Recovery: 1 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Lot #: C0J250000 WO #: DNQ8E1AC
BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Phenol	2500	1530	61	26- 90	
2-Chlorophenol	2500	1630	65	25- 102	
N-Nitrosodi-n-propylamine	1670	1270	76	41- 126	
4-Chloro-3-methylphenol	2500	1760	70	26- 103	
Acenaphthene	1670	1150	69	31- 137	
4-Nitrophenol	2500	1890	76	11- 114	
2,4-Dinitrotoluene	1670	1290	77	28- 89	
Pentachlorophenol	2500	1970	79	17- 109	
Pyrene	1670	1310	79	35- 142	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Matrix Spike ID: PXS-8A Level: (low/med) LOW

Lot #: C0J200201 WO #: DNHW61AE
BATCH: 0295166

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Phenol	2810	ND	1460	52	26- 90	
2-Chlorophenol	2810	ND	1450	51	25- 102	
N-Nitrosodi-n-propylamine	1870	ND	1120	60	41- 126	
4-Chloro-3-methylphenol	2810	ND	1980	70	26- 103	
Acenaphthene	1870	ND	1650	88	31- 137	
4-Nitrophenol	2810	ND	2800	100	11- 114	
2,4-Dinitrotoluene	1870	ND	1620	86	28- 89	
Pentachlorophenol	2810	ND	3300	117*	17- 109	a
Pyrene	1870	410	4090	197*	35- 142	a

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

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

RPD: 0 out of 0 outside limits
Spike Recovery: 2 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Matrix Spike ID: PXS-8A Level: (low/med) LOW

Lot #: C0J200201 WO #: DNHW61AF
BATCH: 0295166

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Phenol	2810	1490	53	2.6		35	26- 90	
2-Chlorophenol	2810	1550	55	7.3		50	25- 102	
N-Nitrosodi-n-propylamine	1870	1230	66	10		38	41- 126	
4-Chloro-3-methylphenol	2810	1940	69	1.7		33	26- 103	
Acenaphthene	1870	1700	91	3.0		19	31- 137	
4-Nitrophenol	2810	2490	89	12		50	11- 114	
2,4-Dinitrotoluene	1870	1750	93*	7.8		47	28- 89	a
Pentachlorophenol	2810	2720	97	19		47	17- 109	
Pyrene	1870	4850	237*	17		36	35- 142	a

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

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

RPD: 0 out of 9 outside limits
Spike Recovery: 2 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C0J240227 WO #: DNNGD1AH
BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Phenol	2750	ND	1250	45	26- 90	
2-Chlorophenol	2750	ND	1250	45	25- 102	
N-Nitrosodi-n-propylamine	1840	ND	980	53	41- 126	
4-Chloro-3-methylphenol	2750	ND	1760	64	26- 103	
Acenaphthene	1840	ND	1160	63	31- 137	
4-Nitrophenol	2750	ND	2190	79	11- 114	
2,4-Dinitrotoluene	1840	ND	1360	74	28- 89	
Pentachlorophenol	2750	ND	2500	91	17- 109	
Pyrene	1840	65	1570	82	35- 142	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

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 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: CUMMINGS-RITER CONSULTANTS INC

Lab Code: QESPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C0J240227 WO #: DNNGD1AJ
BATCH: 0299576

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD		QC LIMITS RPD	QC LIMITS REC	QUAL
Phenol	2750	1230	44	1.7		35	26- 90	
2-Chlorophenol	2750	1220	44	2.4		50	25- 102	
N-Nitrosodi-n-propylamine	1840	965	53	1.5		38	41- 126	
4-Chloro-3-methylphenol	2750	1730	63	1.7		33	26- 103	
Acenaphthene	1840	1110	61	3.9		19	31- 137	
4-Nitrophenol	2750	2130	77	2.8		50	11- 114	
2,4-Dinitrotoluene	1840	1290	70	5.1		47	28- 89	
Pentachlorophenol	2750	2450	89	1.9		47	17- 109	
Pyrene	1840	1550	81	1.7		36	35- 142	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

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

RPD: 0 out of 9 outside limits
Spike Recovery: 0 out of 9 outside limits

COMMENTS:

FORM III

OCLP OLM04.2 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DNKK01AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT SDG Number:

Lab File ID: D1024021. Lot Number: C0J200201

Date Analyzed: 10/25/00 Time Analyzed: 02:58

Matrix: SOLID Date Extracted:10/22/00

GC Column: HP5MS ID: .25 Extraction Method:

Instrument ID: 721 Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PXS-8A	DNHW61AC	D1024023.	10/25/00	04:01
02	PXS-8A	DNHW61AE S	D1024024.	10/25/00	04:32
03	PXS-8A	DNHW61AF D	D1025004.	10/25/00	15:51
04	PXS-9A	DNHW71AC	D1025005.	10/25/00	16:22
05	CHECK SAMPLE	DNKK01AC C	D1024022.	10/25/00	03:29
06					
07					
08					
09					
10					
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29					
30					

COMMENTS:

FORM IV

OCLP OLM04.2 METHOD BLANK SUMMARY

BLANK WORKORDER NO.: DNQ8E1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESPIT

SDG Number:

Lab File ID: D1026003.

Lot Number: C0J200201

Date Analyzed: 10/26/00

Time Analyzed: 15:40

Matrix: SOLID

Date Extracted:10/25/00

GC Column: HP5MS ID: .25

Extraction Method:

Instrument ID: 721

Level:(low/med) LOW

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

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	PXS-8A	DNHW62AC	D1026010.	10/26/00	19:22
02	INTRA-LAB QC	DNNGD1AC	D1026005.	10/26/00	16:43
03	LAB MS/MSD	DNNGD1AH S	D1026006.	10/26/00	17:15
04	LAB MS/MSD	DNNGD1AJ D	D1026007.	10/26/00	17:47
05	CHECK SAMPLE	DNQ8E1AC C	D1026004.	10/26/00	16:11
06					
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COMMENTS:

FORM IV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Lab File ID: D1024DFT DFTPP Injection Date: 10/24/00

Instrument ID: 721 DFTPP Injection Time: 1127

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	34.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% 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	7.0
275	10.0 - 30.0% of mass 198	21.6
365	Greater than 0.75% of mass 198	2.19
441	Present, but less than mass 443	14.8
442	40.0 - 110.0% of mass 198	94.1
443	15.0 - 24.0% of mass 442	17.7 (18.8)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	SSTD020	SSTD20	D1024CC1	10/24/00	1329
02	SSTD050	SSTD50	D1024CC2	10/24/00	1358
03	SSTD080	SSTD80	D1024CC3	10/24/00	1428
04	SSTD120	SSTD120	D1024CC4	10/24/00	1527
05	SSTD160	SSTD160	D1024CC5	10/24/00	1557
06					
07					
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22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Lab File ID: D1024DF2 DFTPP Injection Date: 10/24/00

Instrument ID: 721 DFTPP Injection Time: 1644

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	38.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	54.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	47.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	20.6
365	Greater than 0.75% of mass 198	0.79
441	Present, but less than mass 443	11.9
442	40.0 - 110.0% of mass 198	80.9
443	15.0 - 24.0% of mass 442	15.5 (19.2)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD50	D1024CC7	10/24/00	1705
02	INTRA-LAB BL	DNKK01AA	D1024021	10/25/00	0258
03	LCS	DNKK01AC	D1024022	10/25/00	0329
04	PXS-8A	DNHW61AC	D1024023	10/25/00	0401
05	PXS-8AMS	DNHW61AE	D1024024	10/25/00	0432
06					
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Lab File ID: D1025DFT DFTPP Injection Date: 10/25/00

Instrument ID: 721 DFTPP Injection Time: 1253

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	40.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	49.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	19.5
365	Greater than 0.75% of mass 198	1.90
441	Present, but less than mass 443	10.9
442	40.0 - 110.0% of mass 198	68.3
443	15.0 - 24.0% of mass 442	13.2 (19.4)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD50	D1025CCC	10/25/00	1314
02	PXS-8AMSD	DNHW61AF	D1025004	10/25/00	1551
03	PXS-9A	DNHW71AC	D1025005	10/25/00	1622
04					
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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Lab File ID: D1026DF2 DFTPP Injection Date: 10/26/00

Instrument ID: 721 DFTPP Injection Time: 1446

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	36.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	44.4
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	6.6
275	10.0 - 30.0% of mass 198	21.7
365	Greater than 0.75% of mass 198	2.19
441	Present, but less than mass 443	10.0
442	40.0 - 110.0% of mass 198	85.7
443	15.0 - 24.0% of mass 442	16.9 (19.7)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	SSTD50	D1026CC3	10/26/00	1507
02	INTRA-LAB BL	DNQ8E1AA	D1026003	10/26/00	1540
03	LCS	DNQ8E1AC	D1026004	10/26/00	1611
04	PXS-8A	DNHW62AC	D1026010	10/26/00	1922
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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 10/24/00

Lab File ID (Standard): D1024CC7 Time Analyzed: 1705

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	127375	4.58	487214	5.80	226116	8.35
	UPPER LIMIT	254750	5.08	974428	6.30	452232	8.85
	LOWER LIMIT	63688	4.08	243607	5.30	113058	7.85
	EPA SAMPLE NO.						
01	INTRA-LAB BL	141302	4.58	495702	5.79	218637	8.35
02	LCS	138356	4.59	509038	5.80	228868	8.34
03	PXS-8A	143621	4.58	502537	5.79	220943	8.35
04	PXS-8AMS	137756	4.58	487873	5.79	215412	8.35
05							
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 10/24/00

Lab File ID (Standard): D1024CC7 Time Analyzed: 1705

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	371440	11.23	314386	17.07	260354	20.03
	UPPER LIMIT	742880	11.73	628772	17.57	520708	20.53
	LOWER LIMIT	185720	10.73	157193	16.57	130177	19.53
	EPA SAMPLE NO.						
01	INTRA-LAB BL	356937	11.22	454086	17.06	448576	20.03
02	LCS	373849	11.22	475259	17.06	468902	20.04
03	PXS-8A	358528	11.22	449453	17.07	445411	20.04
04	PXS-8AMS	351371	11.23	447948	17.10	428933	20.07
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 10/25/00

Lab File ID (Standard): D1025CCC Time Analyzed: 1314

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	128368	4.56	485682	5.78	225161	8.33
	UPPER LIMIT	256736	5.06	971364	6.28	450322	8.83
	LOWER LIMIT	64184	4.06	242841	5.28	112581	7.83
	EPA SAMPLE NO.						
01	PXS-8AMSD	144963	4.57	535919	5.78	242503	8.33
02	PXS-9A	145271	4.57	529165	5.78	238720	8.33
03							
04							
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18							
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD050 Date Analyzed: 10/25/00

Lab File ID (Standard): D1025CCC Time Analyzed: 1314

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	387488	11.20	347939	17.05	295404	20.01
	UPPER LIMIT	774976	11.70	695878	17.55	590808	20.51
	LOWER LIMIT	193744	10.70	173970	16.55	147702	19.51
	EPA SAMPLE NO.						
01	PXS-8AMSD	385879	11.21	401610	17.08	482252	20.06
02	PXS-9A	385649	11.21	394066	17.07	467955	20.05
03							
04							
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD50 Date Analyzed: 10/26/00

Lab File ID (Standard): D1026CC3 Time Analyzed: 1507

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	131693		4.56		513728		5.78		255228		8.33	
	UPPER LIMIT	263386		5.06		1027456		6.28		510456		8.83	
	LOWER LIMIT	65847		4.06		256864		5.28		127614		7.83	
	EPA SAMPLE NO.												
01	INTRA-LAB BL	140024		4.56		571749		5.78		296023		8.33	
02	LCS	142188		4.57		586371		5.78		304544		8.34	
03	PXS-8A	159368		4.56		614672		5.78		310283		8.33	
04													
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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 values outside QC limits with an asterisk.
* Values outside of QC limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

EPA Sample No. (SSTD050##): SSTD50 Date Analyzed: 10/26/00

Lab File ID (Standard): D1026CC3 Time Analyzed: 1507

Instrument ID: 721 GC Column: ID:0.25(mm)

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	452256		11.21		443796		17.05		405513		20.02	
	UPPER LIMIT	904512		11.71		887592		17.55		811026		20.52	
	LOWER LIMIT	226128		10.71		221898		16.55		202757		19.52	
	EPA SAMPLE NO.												
01	INTRA-LAB BL	528840		11.21		540617		17.05		484161		20.01	
02	LCS	537849		11.21		541888		17.04		493418		20.02	
03	PXS-8A	524079		11.21		499305		17.05		445924		20.02	
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

GC/MS SEMIVOLATILE
SAMPLE DATA

CUMMINGS-RITER CONSULTANTS INC

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J200201 001
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNHW61AC Date Extracted:10/22/00
Dilution factor: 1 Date Analyzed: 10/25/00
Moisture %:11

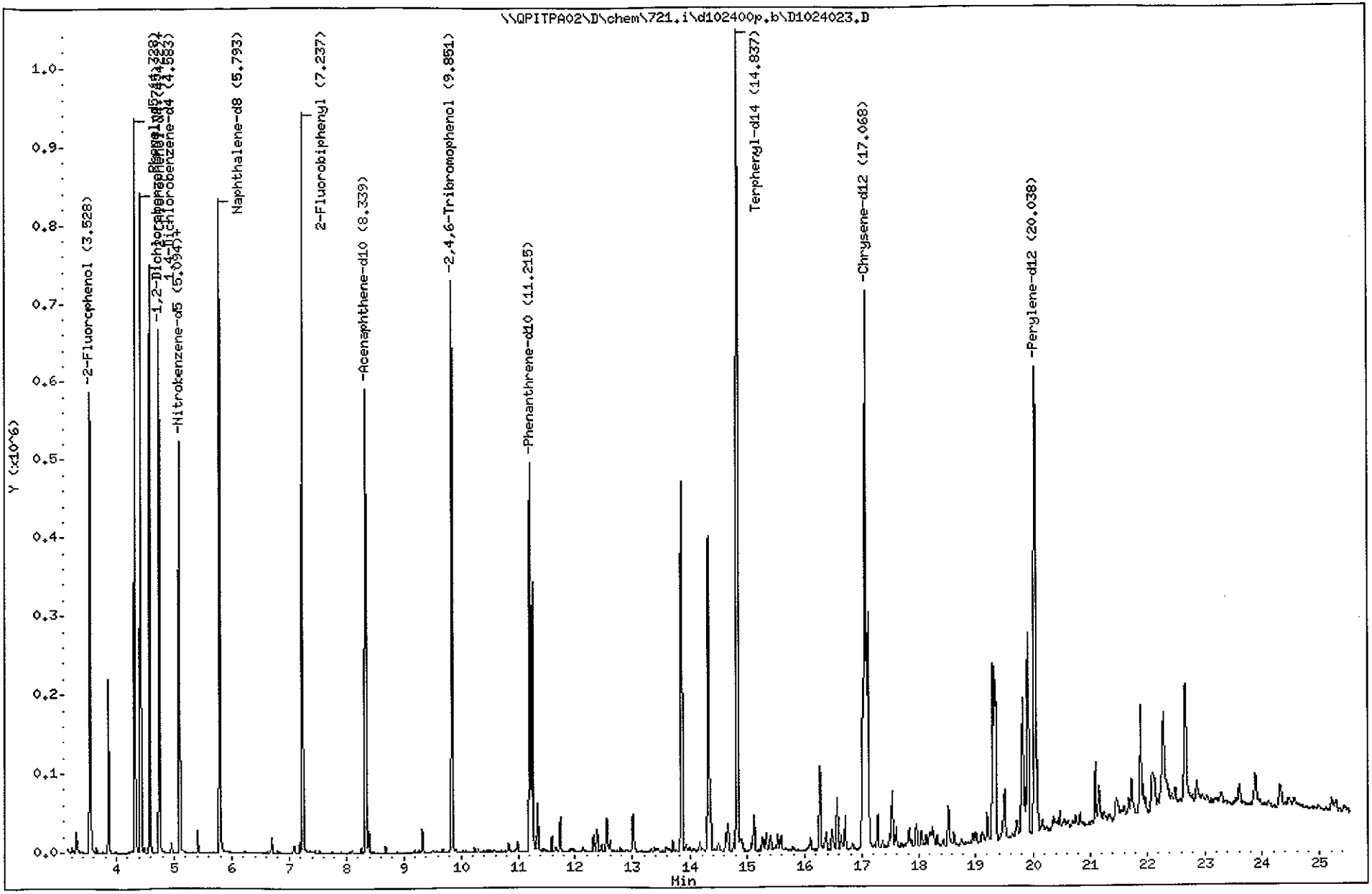
QC Batch: 0295166

Client Sample Id: PXS-8A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	370	U
95-57-8	2-Chlorophenol	370	U
621-64-7	N-Nitrosodi-n-propylamine	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
83-32-9	Acenaphthene	370	U
100-02-7	4-Nitrophenol	930	U
121-14-2	2,4-Dinitrotoluene	370	U
87-86-5	Pentachlorophenol	930	U
129-00-0	Pyrene	410	
56-55-3	Benzo(a)anthracene	260	J
205-99-2	Benzo(b)fluoranthene	230	J
50-32-8	Benzo(a)pyrene	240	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	J

Data File: \\QPITPA02\D\chem\721.i\d102400p.b\D1024023.D
Date : 25-OCT-2000 04:01
Client ID: PXS-8A
Sample Info: c0j200201-001 soil 10/22/00 clp4.2
Volume Injected (uL): 2.0
Column phase:

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



STL-Pittsburgh

Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102400p.b\D1024023.D
Lab Smp Id: DNHW61AC Client Smp ID: PXS-8A
Inj Date : 25-OCT-2000 04:01
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j200201-001 soil 10/22/00 clp4.2
Misc Info : dnhw61ac,d102400p.b,clp.m,1-4.2.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d102400p.b\clp.m
Meth Date : 25-Oct-2000 11:30 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 17:05 Cal File: D1024CC7.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-4.2.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-25-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	4.583	4.580	(1.000)	143621	40.0000	
* 2	Naphthalene-d8	136	5.792	5.796	(1.000)	502537	40.0000	
* 3	Acenaphthene-d10	164	8.346	8.349	(1.000)	220943	40.0000	
* 4	Phenanthrene-d10	188	11.215	11.225	(1.000)	358528	40.0000	
* 5	Chrysene-d12	240	17.067	17.071	(1.000)	449453	40.0000	
* 6	Perylene-d12	264	20.037	20.034	(1.000)	445411	40.0000	
191	Benzaldehyde	77	Compound Not Detected.					
7	Phenol	94	Compound Not Detected.					
8	Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9	2-Chlorophenol	128	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192	Acetophenone	105	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
18	Nitrobenzene	77	Compound Not Detected.					
19	Isophorone	82	Compound Not Detected.					
20	2-Nitrophenol	139	Compound Not Detected.					
21	2,4-Dimethylphenol	107	Compound Not Detected.					
22	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
23	2,4-Dichlorophenol	162	Compound Not Detected.					
25	Naphthalene	128	Compound Not Detected.					
26	4-Chloroaniline	127	Compound Not Detected.					
193	Caprolactam	113	Compound Not Detected.					
27	Hexachlorobutadiene	224	Compound Not Detected.					
28	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
29	2-Methylnaphthalene	142	Compound Not Detected.					
30	Hexachlorocyclopentadiene	236	Compound Not Detected.					
31	2,4,6-Trichlorophenol	196	Compound Not Detected.					
32	2,4,5-Trichlorophenol	196	Compound Not Detected.					
194	1,1'-Biphenyl	154	Compound Not Detected.					
33	2-Chloronaphthalene	162	Compound Not Detected.					
34	2-Nitroaniline	65	Compound Not Detected.					
35	Dimethylphthalate	163	Compound Not Detected.					
36	Acenaphthylene	152	Compound Not Detected.					
37	2,6-Dinitrotoluene	165	Compound Not Detected.					
38	3-Nitroaniline	138	Compound Not Detected.					
39	Acenaphthene	153	Compound Not Detected.					
40	2,4-Dinitrophenol	184	Compound Not Detected.					
41	4-Nitrophenol	109	Compound Not Detected.					
42	Dibenzofuran	168	Compound Not Detected.					
43	2,4-Dinitrotoluene	165	Compound Not Detected.					
44	Diethylphthalate	149	Compound Not Detected.					
45	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
46	Fluorene	166	Compound Not Detected.					
47	4-Nitroaniline	138	Compound Not Detected.					
48	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
49	N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
50	4-Bromophenyl-phenylether	248	Compound Not Detected.					
51	Hexachlorobenzene	283	Compound Not Detected.					
195	Atrazine	200	Compound Not Detected.					
53	Pentachlorophenol	265	Compound Not Detected.					
54	Phenanthrene	178	11.262	11.279	(1.004)	211703	23.3332	388.89
55	Anthracene	178	11.349	11.366	(1.012)	44068	4.62506	77.084(aQ)
56	Carbazole	167	11.739	11.756	(1.047)	32447	3.83100	63.850(a)
57	Di-n-Butylphthalate	149	Compound Not Detected.					
58	Fluoranthene	202	13.849	13.852	(1.235)	362220	38.2315	637.19
59	Pyrene	202	14.319	14.329	(0.839)	305551	22.0463	367.44
60	Butylbenzylphthalate	149	Compound Not Detected.					
61	3,3'-Dichlorobenzidine	252	Compound Not Detected.					

NA

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
62	Benzo(a)Anthracene	228	17.020	17.030	(0.997)	169899	13.9755	232.92(aQ)
63	Chrysene	228	17.114	17.124	(1.003)	172195	15.5265	258.77(a)
64	bis(2-ethylhexyl)Phthalate	149	17.524	17.541	(1.027)	29804	2.88953	48.159(aQ)
65	Di-n-octylphthalate	149	Compound Not Detected.					
66	Benzo(b)fluoranthene	252	19.298	19.315	(0.963)	170953	12.1368	202.28(a)
67	Benzo(k)fluoranthene	252	19.345	19.369	(0.965)	174982	12.9510	215.85(a)
68	Benzo(a)pyrene	252	19.909	19.926	(0.994)	158032	12.7213	212.02(a)
69	Indeno(1,2,3-cd)pyrene	276	21.892	21.915	(1.093)	86512	7.05044	117.51(aQ)
70	Dibenz(a,h)anthracene	278	Compound Not Detected.					
71	Benzo(g,h,i)perylene	276	22.288	22.325	(1.112)	70143	5.36910	89.485(a)
$ 72	Nitrobenzene-d5	82	5.094	5.097	(0.879)	209059	42.0009	700.01
$ 73	2-Fluorobiphenyl	172	7.237	7.240	(0.867)	420162	53.6830	894.72
$ 74	Terphenyl-d14	244	14.836	14.826	(0.869)	727237	64.5073	1075.1
$ 75	Phenol-d5	99	4.328	4.331	(0.944)	380553	62.6415	1044.0
$ 76	2-Fluorophenol	112	3.528	3.525	(0.770)	249908	46.3480	772.47
$ 77	2,4,6-Tribromophenol	330	9.851	9.854	(0.878)	160085	113.136	1885.6
$ 78	2-Chlorophenol-d4	132	4.422	4.425	(0.965)	300999	58.5606	976.01
$ 79	1,2-Dichlorobenzene-d4	152	4.744	4.741	(1.035)	125705	36.1033	601.72

NA

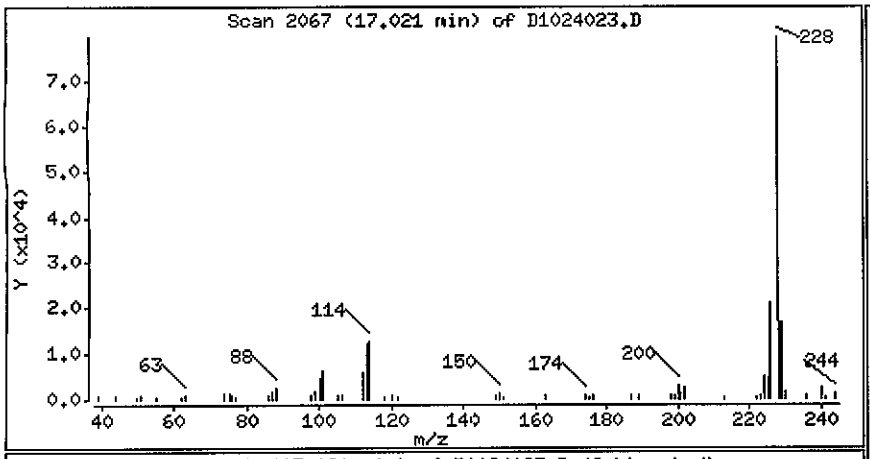
NA

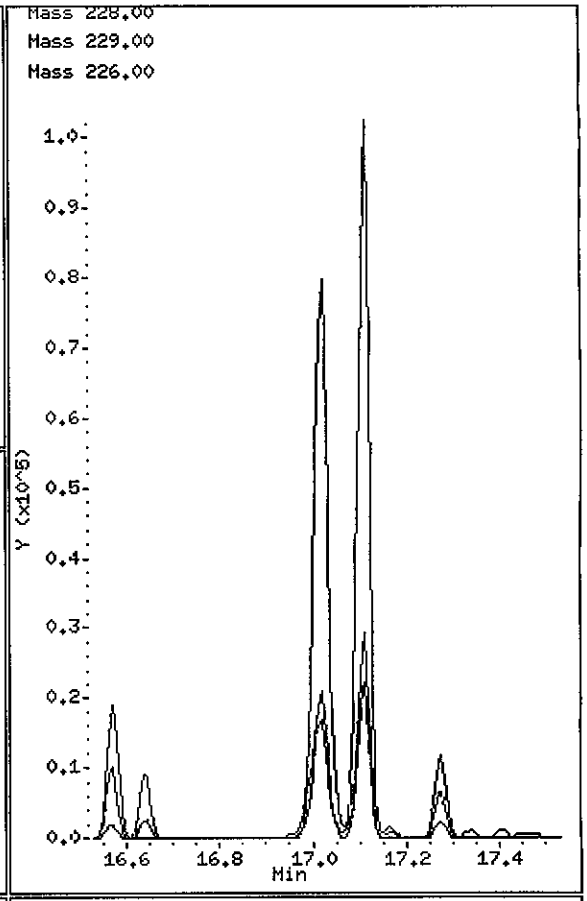
NA

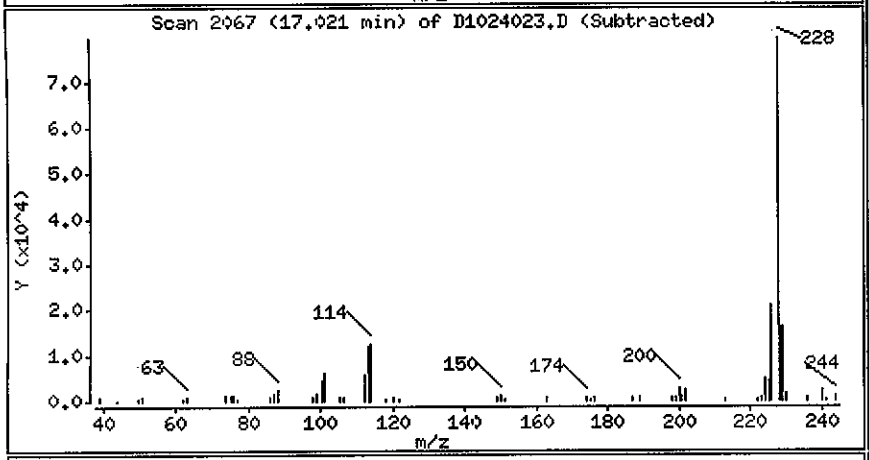
QC Flag Legend

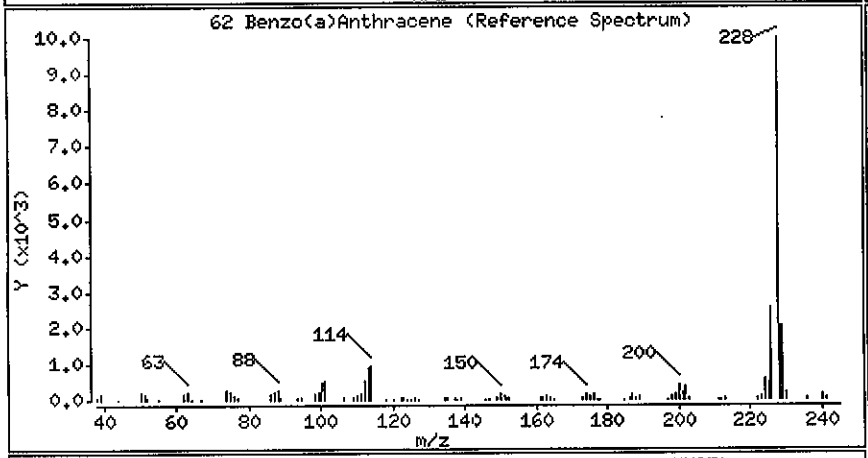
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

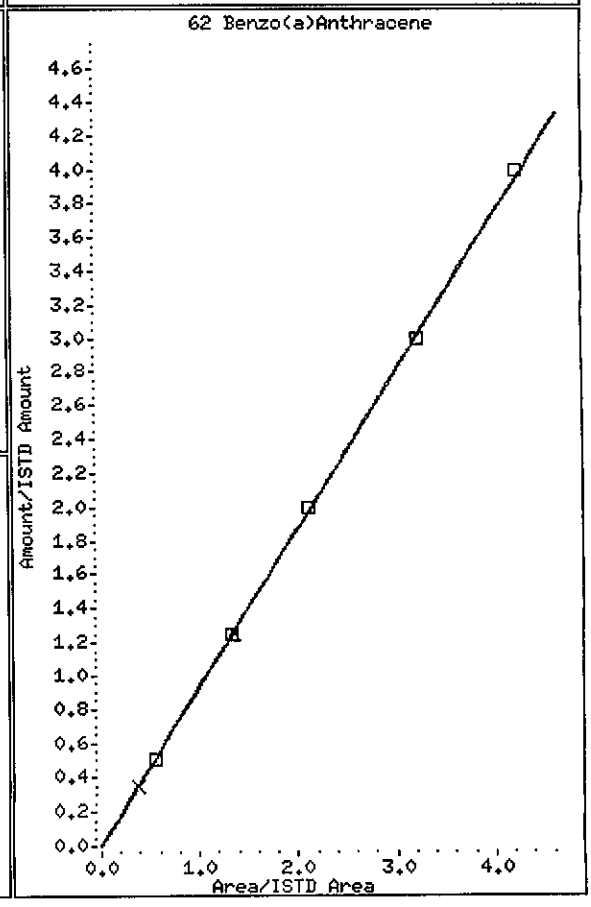
62 Benzo(a)Anthracene

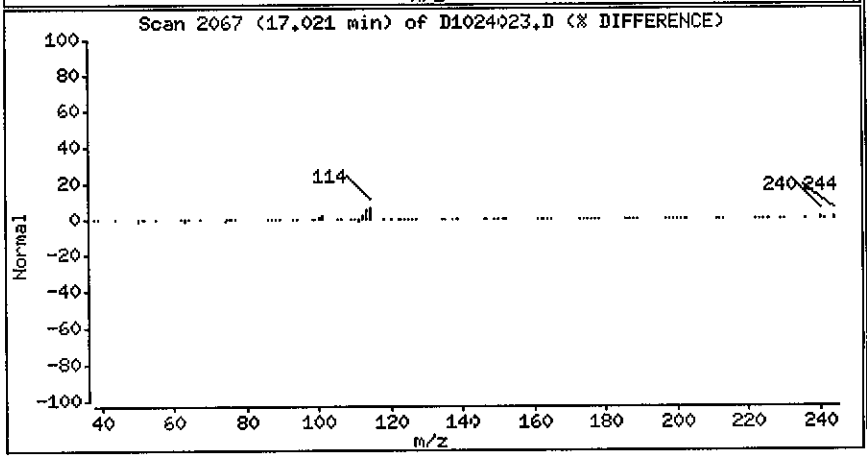




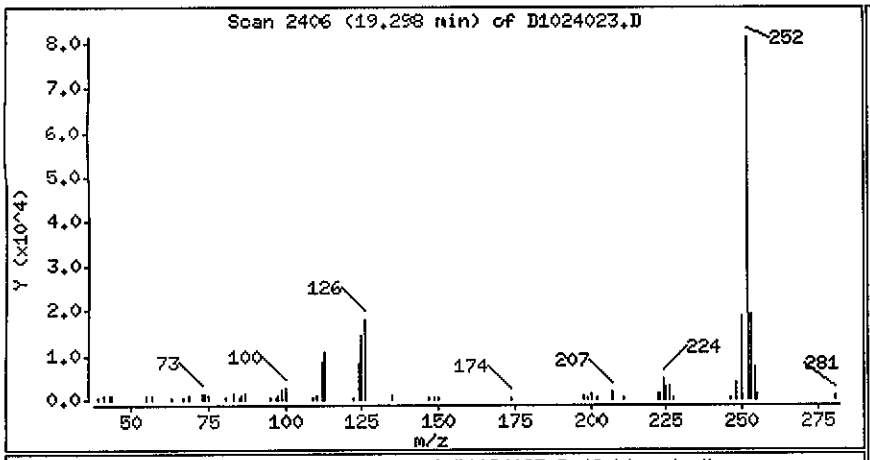


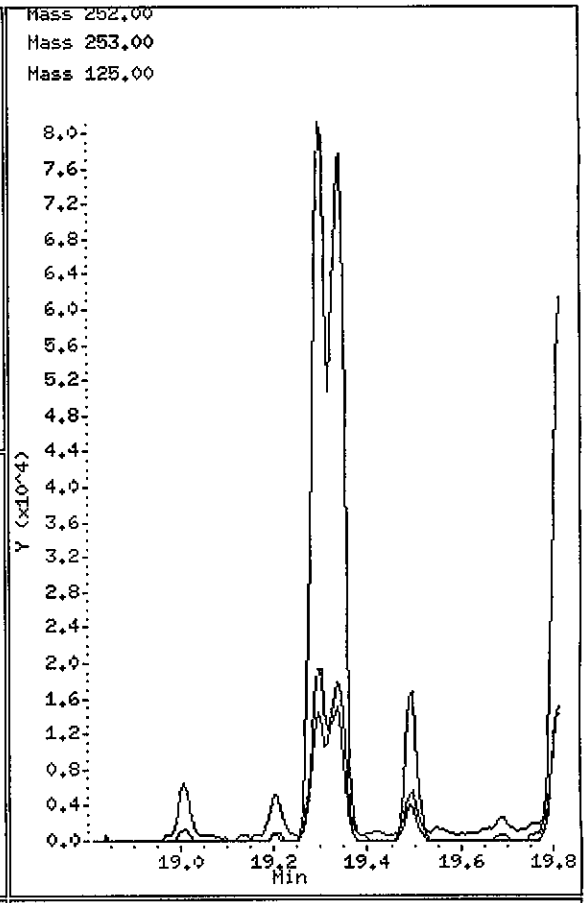


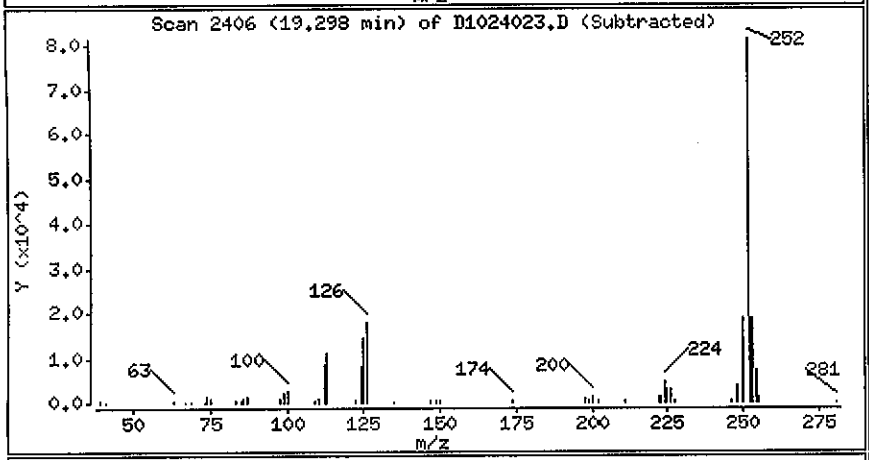


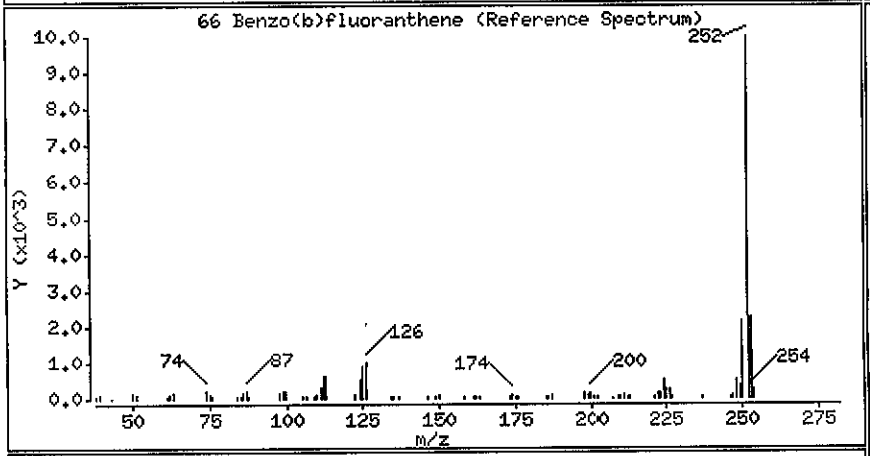


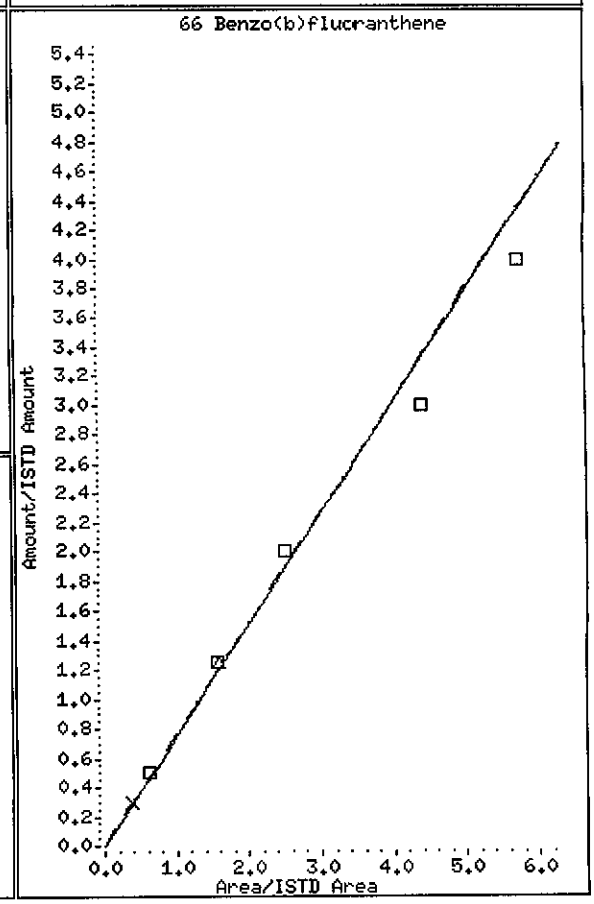
66 Benzo(b)fluoranthene

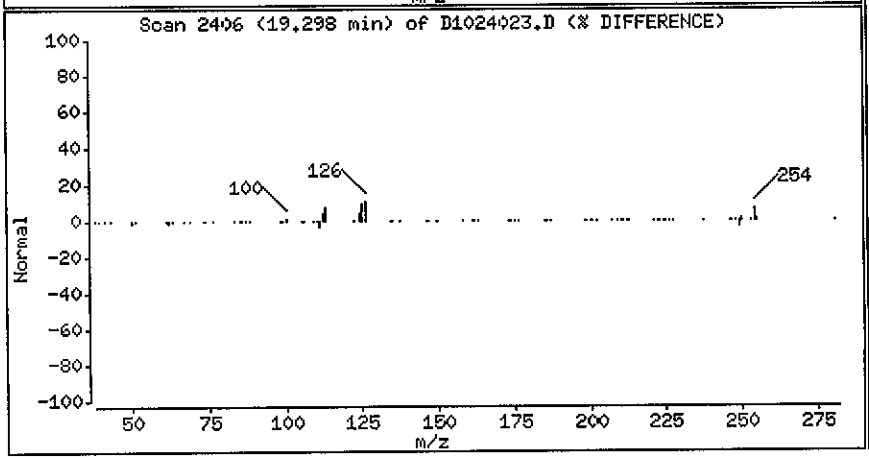




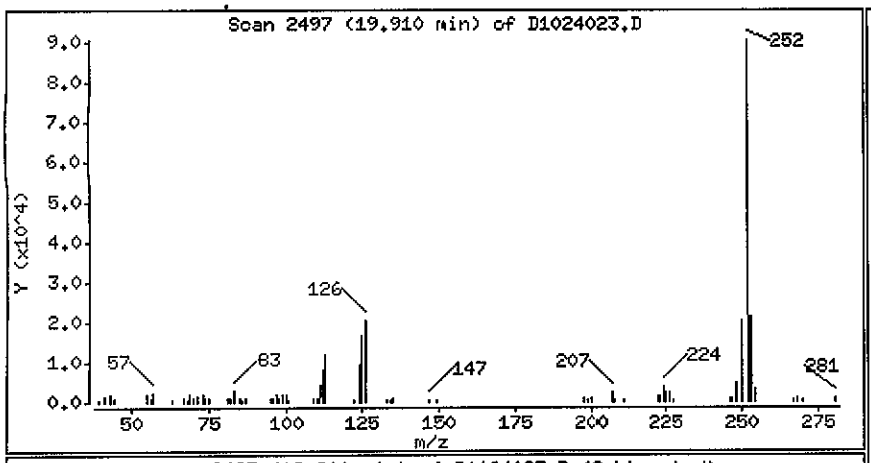


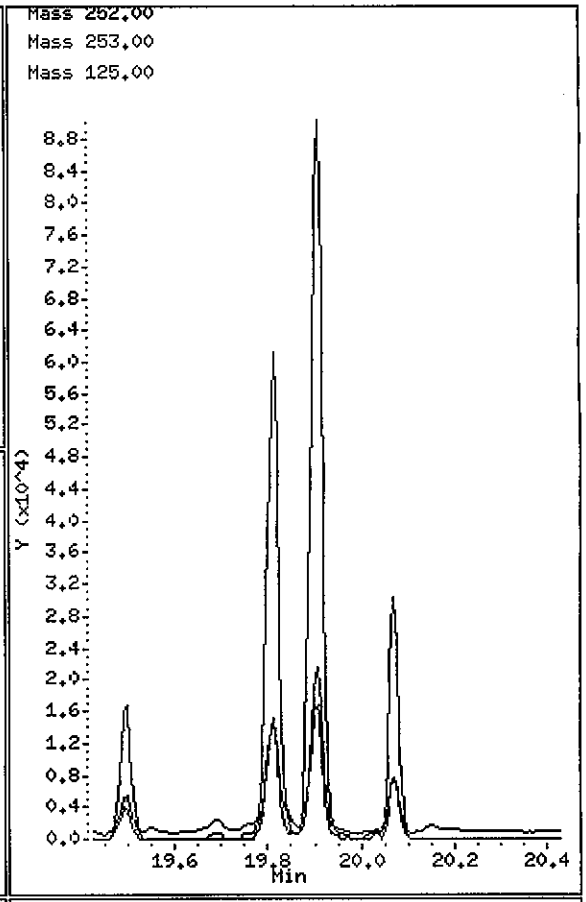


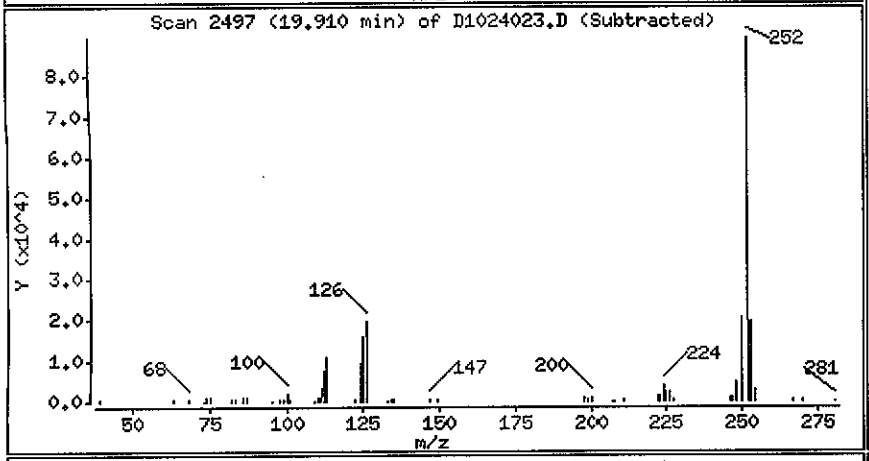


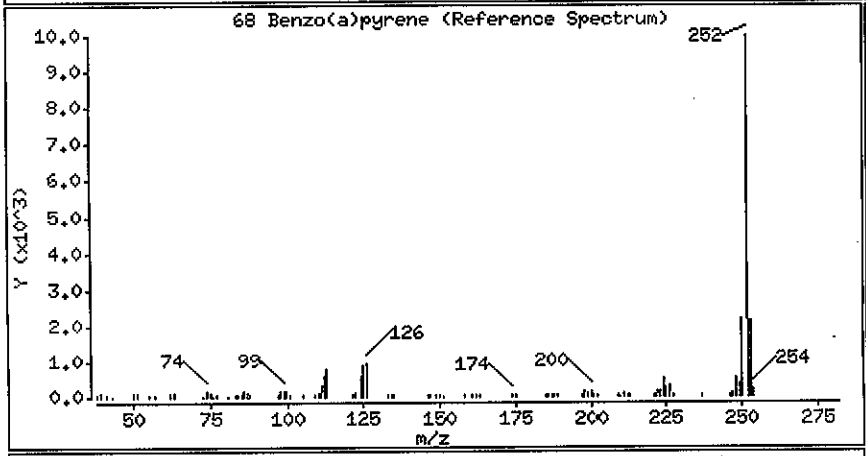


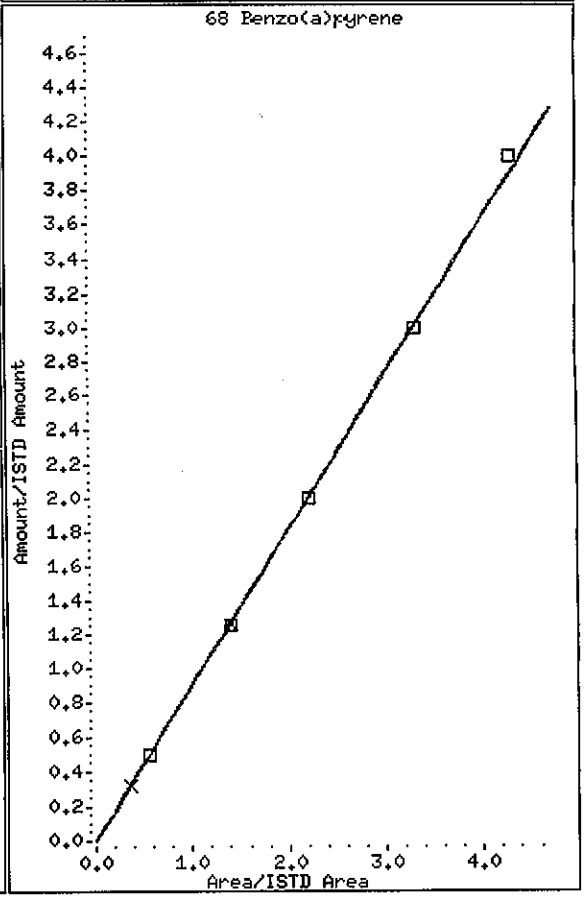
68 Benzo(a)pyrene

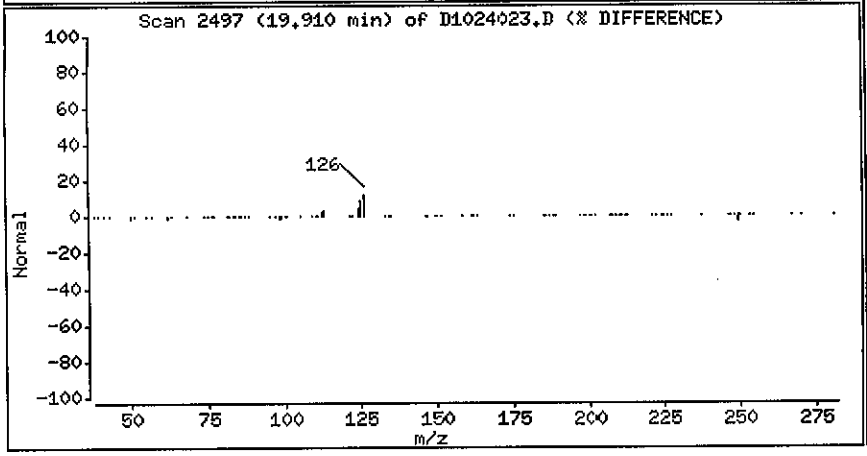




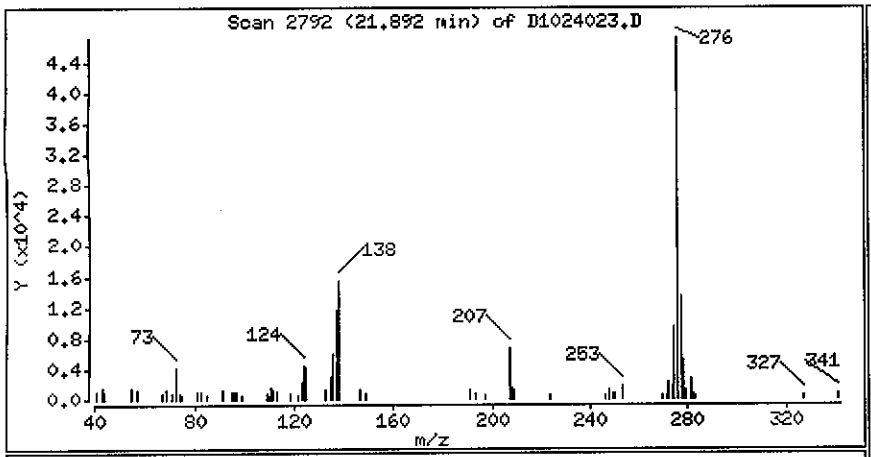


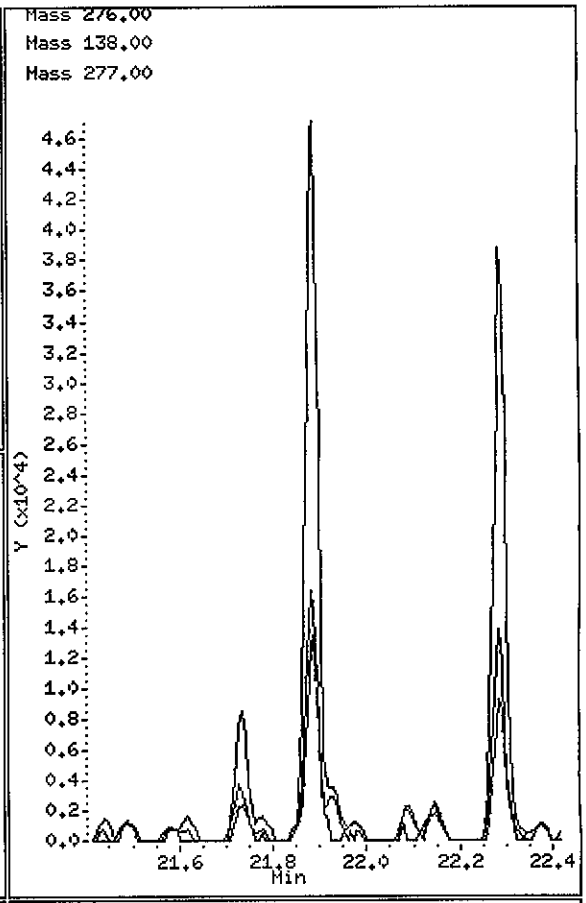


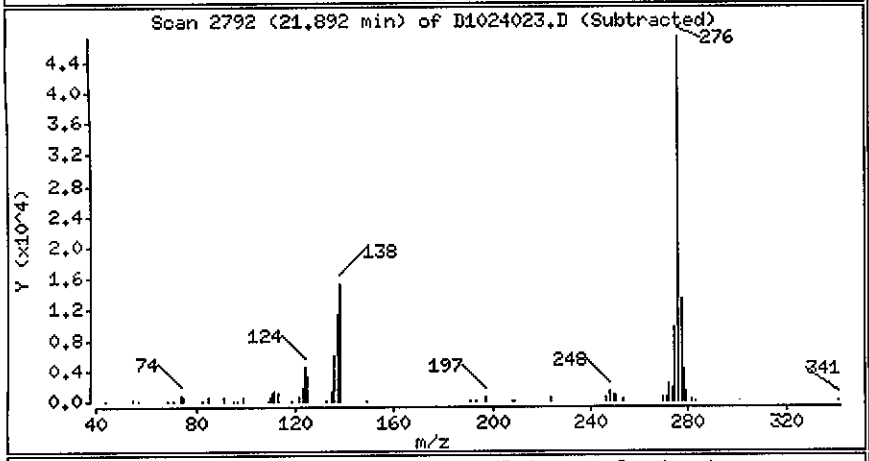


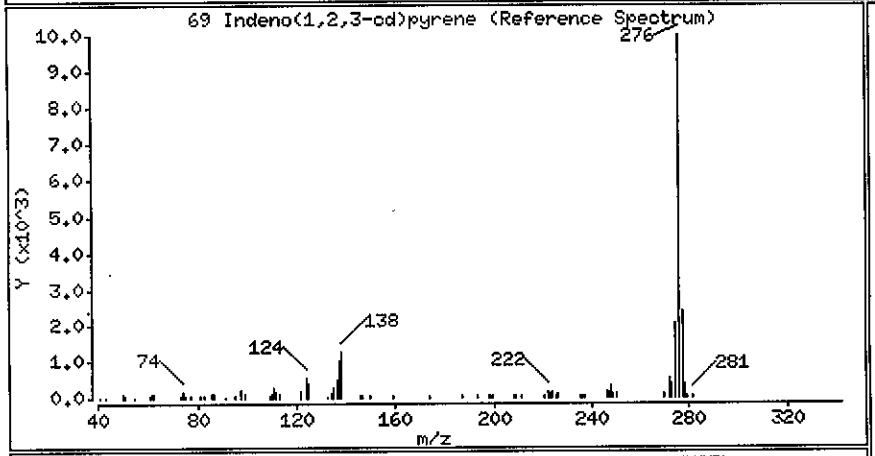


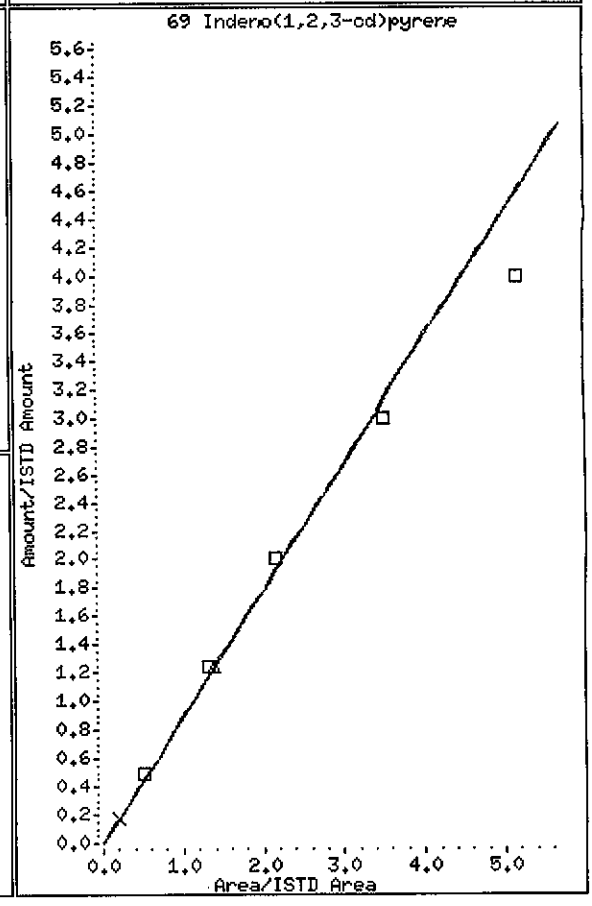
69 Indeno(1,2,3-cd)pyrene

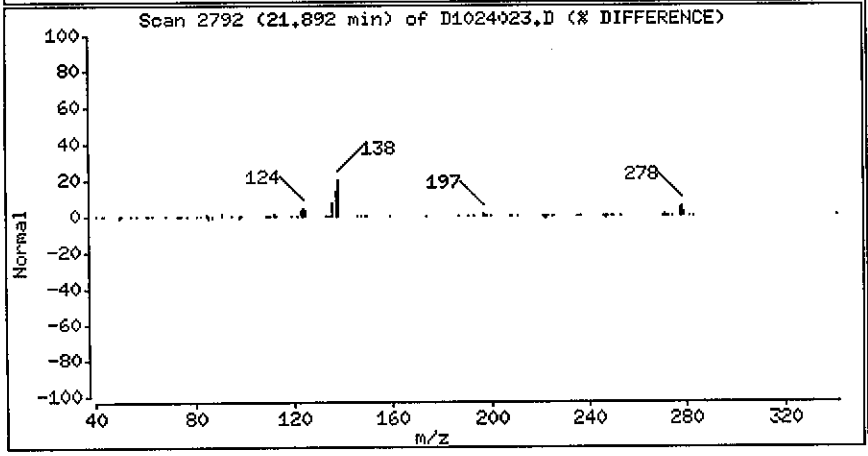












CUMMINGS-RITER CONSULTANTS INC

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J200201 001 RE
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNHW62AC Date Extracted:10/25/00
Dilution factor: 1 Date Analyzed: 10/26/00
Moisture %:11

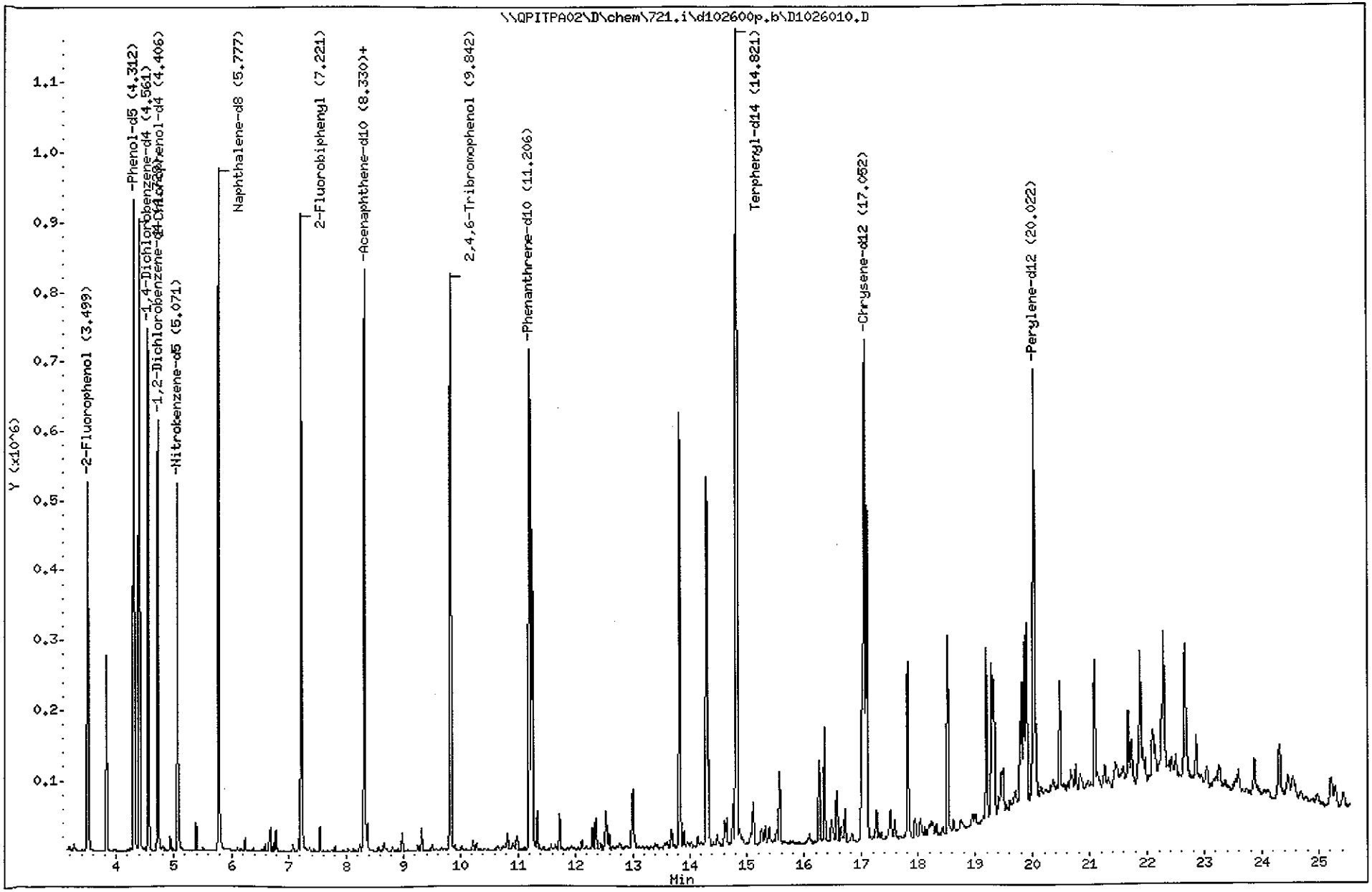
QC Batch: 0299576

Client Sample Id: PXS-8A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	230	J
205-99-2	Benzo(b)fluoranthene	240	J
50-32-8	Benzo(a)pyrene	230	J
193-39-5	Indeno(1,2,3-cd)pyrene	200	J

Data File: \\QPITPA02\D\chem\721.i\d102600p.b\D1026010.D
Date : 26-OCT-2000 19:22
Client ID: PXS-8A
Sample Info: c0j200201-001 soil 10/25/00 clp4.2
Volume Injected (uL): 2.0
Column phase:

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



STL-Pittsburgh

Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026010.D
Lab Smp Id: DNHW62AC Client Smp ID: PXS-8A
Inj Date : 26-OCT-2000 19:22
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j200201-001 soil 10/25/00 clp4.2
Misc Info : dnhw62ac,d102600p.b,clp.m,1-4.2.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
Meth Date : 27-Oct-2000 08:24 ferguson Quant Type: ISTD
Cal Date : 26-OCT-2000 15:07 Cal File: D1026CC3.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-4.2.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-27-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.560	4.562	(1.000)	159368	40.0000	
* 2 Naphthalene-d8	136	5.776	5.779	(1.000)	614672	40.0000	
* 3 Acenaphthene-d10	164	8.330	8.332	(1.000)	310283	40.0000	
* 4 Phenanthrene-d10	188	11.205	11.208	(1.000)	524079	40.0000	
* 5 Chrysene-d12	240	17.051	17.054	(1.000)	499305	40.0000	
* 6 Perylene-d12	264	20.021	20.023	(1.000)	445924	40.0000	
191 Benzaldehyde	77	Compound Not Detected.					
7 Phenol	94	Compound Not Detected.					
8 Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9 2-Chlorophenol	128	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192 Acetophenone	105	Compound Not Detected.					
15 4-Methylphenol	108	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
18	Nitrobenzene	77	Compound Not Detected.					
19	Isophorone	82	Compound Not Detected.					
20	2-Nitrophenol	139	Compound Not Detected.					
21	2,4-Dimethylphenol	107	Compound Not Detected.					
22	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
23	2,4-Dichlorophenol	162	Compound Not Detected.					
25	Naphthalene	128	Compound Not Detected.					
26	4-Chloroaniline	127	Compound Not Detected.					
193	Caprolactam	113	Compound Not Detected.					
27	Hexachlorobutadiene	224	Compound Not Detected.					
28	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
29	2-Methylnaphthalene	142	Compound Not Detected.					
30	Hexachlorocyclopentadiene	236	Compound Not Detected.					
31	2,4,6-Trichlorophenol	196	Compound Not Detected.					
32	2,4,5-Trichlorophenol	196	Compound Not Detected.					
194	1,1'-Biphenyl	154	Compound Not Detected.					
33	2-Chloronaphthalene	162	Compound Not Detected.					
34	2-Nitroaniline	65	Compound Not Detected.					
35	Dimethylphthalate	163	Compound Not Detected.					
36	Acenaphthylene	152	Compound Not Detected.					
37	2,6-Dinitrotoluene	165	Compound Not Detected.					
38	3-Nitroaniline	138	Compound Not Detected.					
39	Acenaphthene	153	Compound Not Detected.					
40	2,4-Dinitrophenol	184	Compound Not Detected.					
41	4-Nitrophenol	109	Compound Not Detected.					
42	Dibenzofuran	168	Compound Not Detected.					
43	2,4-Dinitrotoluene	165	Compound Not Detected.					
44	Diethylphthalate	149	Compound Not Detected.					
45	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
46	Fluorene	166	Compound Not Detected.					
47	4-Nitroaniline	138	Compound Not Detected.					
48	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
49	N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
50	4-Bromophenyl-phenylether	248	Compound Not Detected.					
51	Hexachlorobenzene	283	Compound Not Detected.					
195	Atrazine	200	Compound Not Detected.					
53	Pentachlorophenol	265	Compound Not Detected.					
54	Phenanthrene	178	11.252	11.262	(1.004)	300342	22.7333	378.89
55	Anthracene	178	11.340	11.356	(1.012)	41353	2.97927	49.654(aQ)
56	Carbazole	167	11.730	11.745	(1.047)	40450	3.12592	52.099(a)
57	Di-n-Butylphthalate	149	Compound Not Detected.					
58	Fluoranthene	202	13.833	13.842	(1.234)	487342	32.3555	539.26
59	Pyrene	202	14.303	14.312	(0.839)	396790	27.6254	460.42
60	Butylbenzylphthalate	149	Compound Not Detected.					
61	3,3'-Dichlorobenzidine	252	Compound Not Detected.					

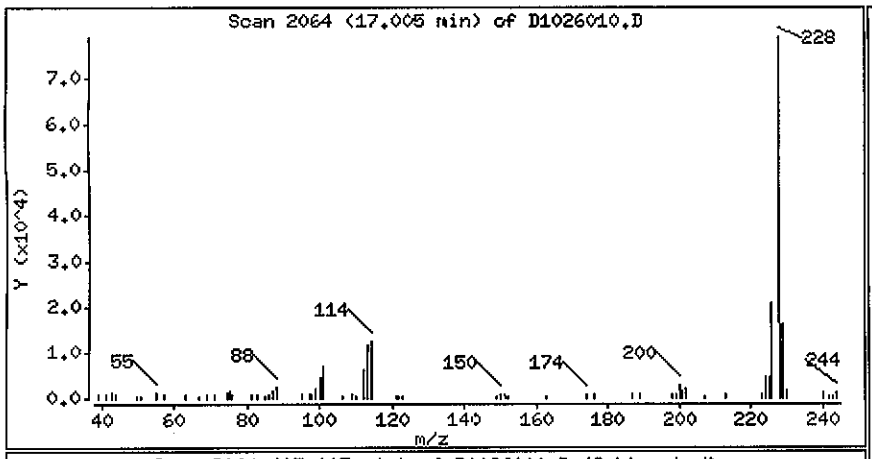
NA

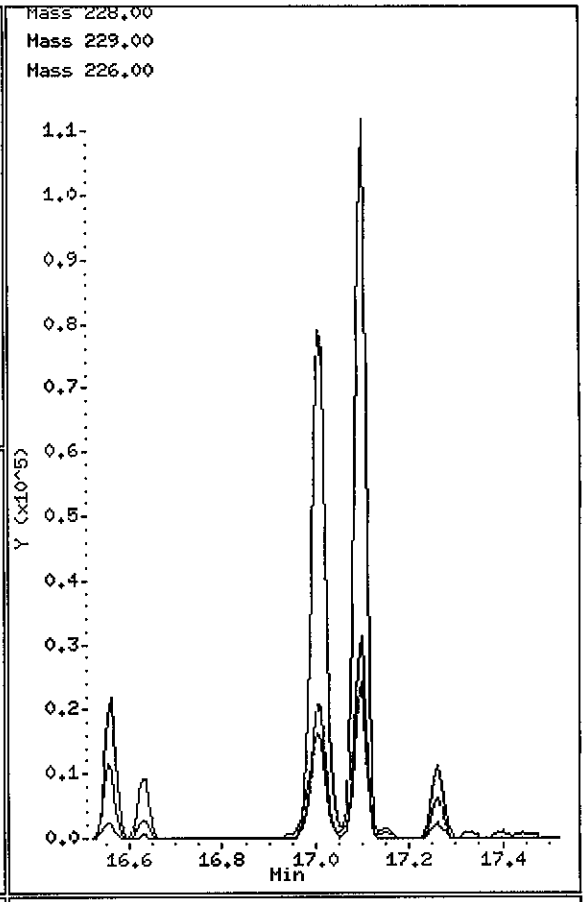
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
62	Benzo(a)Anthracene	228	17.004	17.020	(0.997)	165712	12.1978	203.30(a)
63	Chrysene	228	17.098	17.114	(1.003)	188894	15.4945	258.24(a) — NA
64	bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
65	Di-n-octylphthalate	149	Compound Not Detected.					
66	Benzo(b)fluoranthene	252	19.289	19.304	(0.963)	175398	12.6614	211.02(a)
67	Benzo(k)fluoranthene	252	19.329	19.358	(0.965)	158213	12.2669	204.45(a) — NA
68	Benzo(a)pyrene	252	19.900	19.916	(0.994)	151847	12.4008	206.68(a)
69	Indeno(1,2,3-cd)pyrene	276	21.882	21.898	(1.093)	128096	10.7479	179.13(a)
70	Dibenz(a,h)anthracene	278	21.923	21.952	(1.095)	27781	2.22715	37.119(aQ) — NA
71	Benzo(g,h,i)perylene	276	22.285	22.315	(1.113)	116579	9.46857	157.81(a) — NA
$ 72	Nitrobenzene-d5	82	5.071	5.080	(0.878)	217160	35.7980	596.63
$ 73	2-Fluorobiphenyl	172	7.221	7.230	(0.867)	433564	39.7013	661.69
$ 74	Terphenyl-d14	244	14.820	14.816	(0.869)	850901	70.1788	1169.6
$ 75	Phenol-d5	99	4.311	4.314	(0.945)	378362	54.3981	906.64
$ 76	2-Fluorophenol	112	3.498	3.501	(0.767)	227370	39.4257	657.09
$ 77	2,4,6-Tribromophenol	330	9.841	9.844	(0.878)	201808	89.4375	1490.6
$ 78	2-Chlorophenol-d4	132	4.406	4.408	(0.966)	310846	54.8028	913.38
$ 79	1,2-Dichlorobenzene-d4	152	4.728	4.724	(1.037)	120288	31.1024	518.37

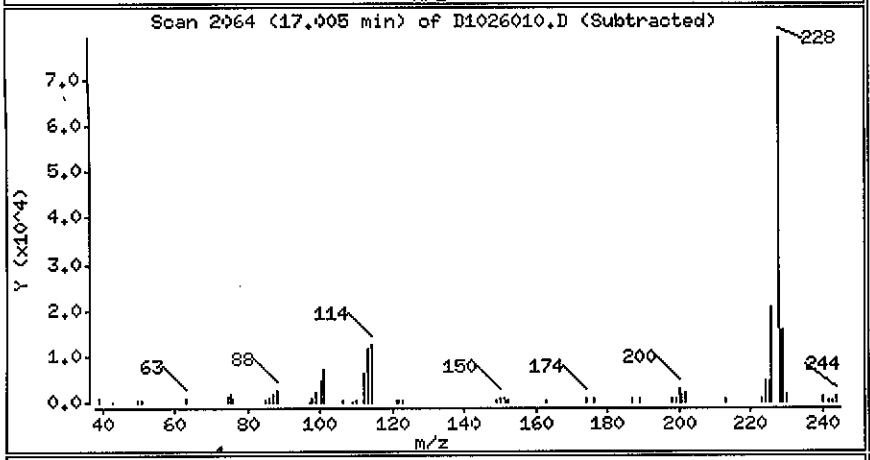
QC Flag Legend

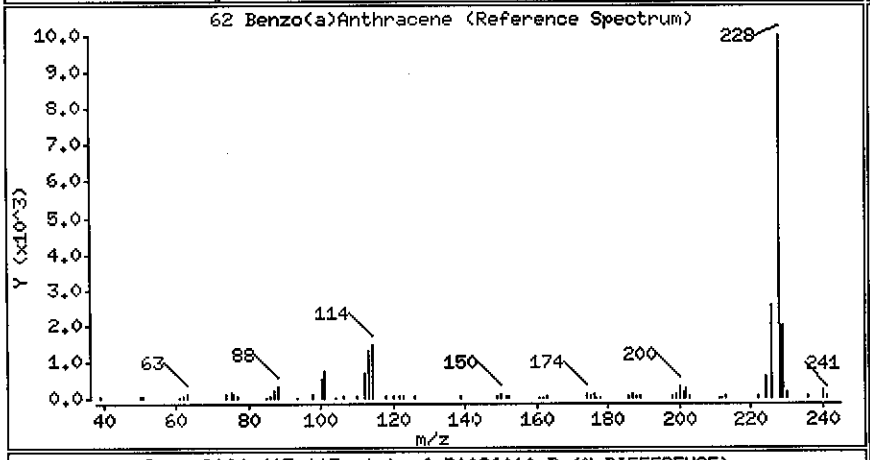
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

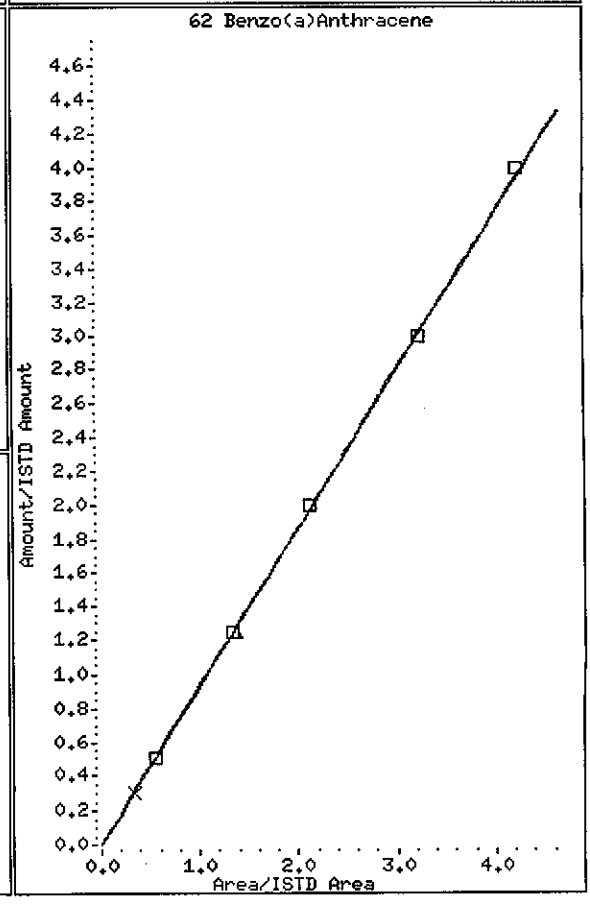
62 Benzo(a)Anthracene

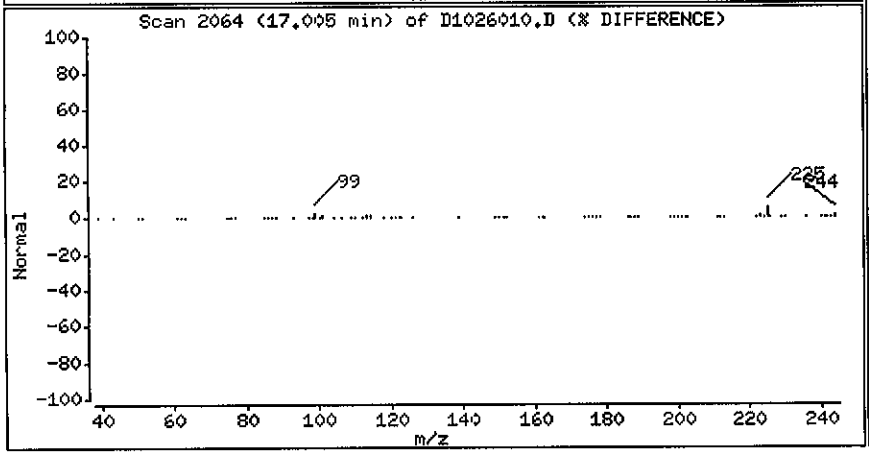




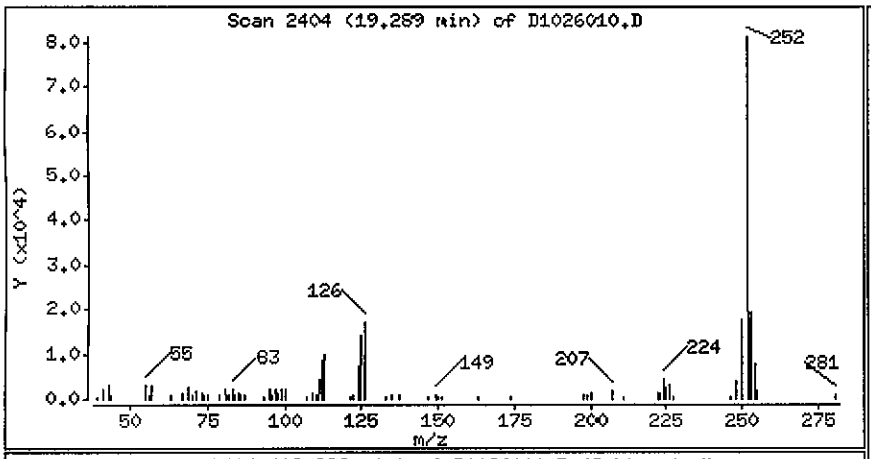


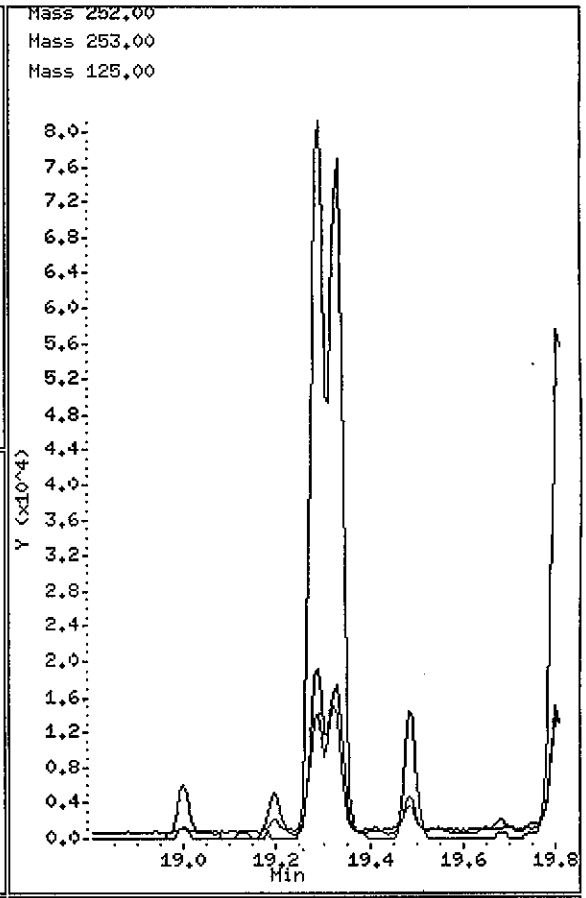


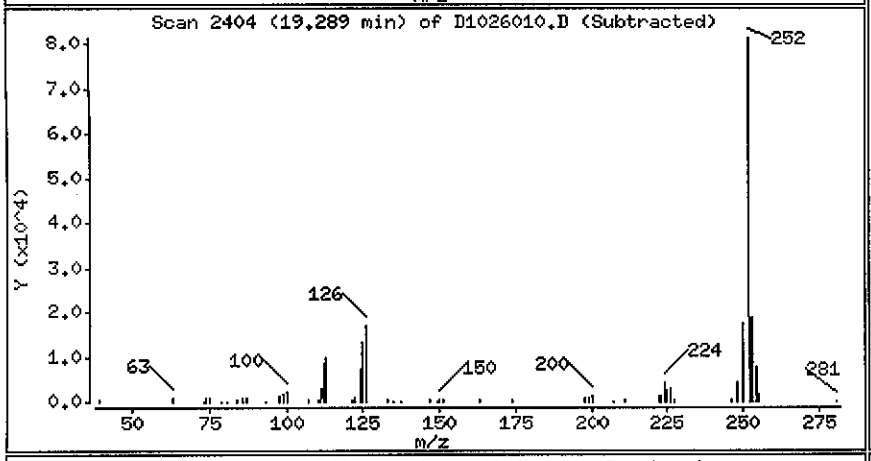


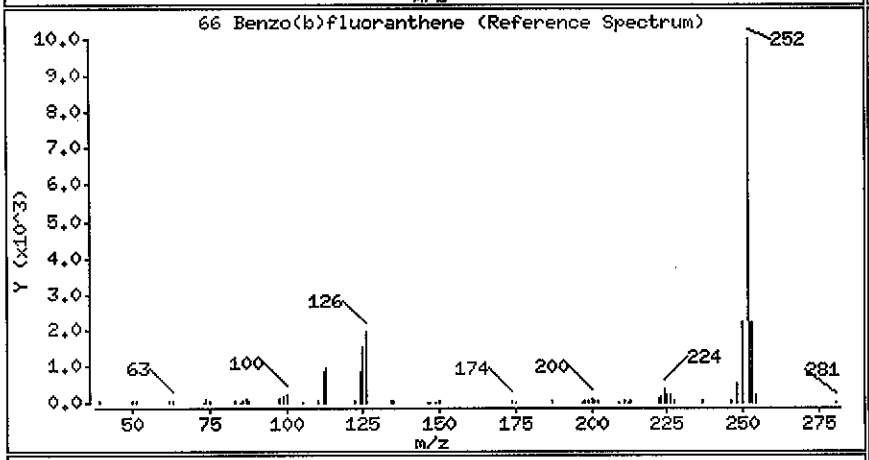


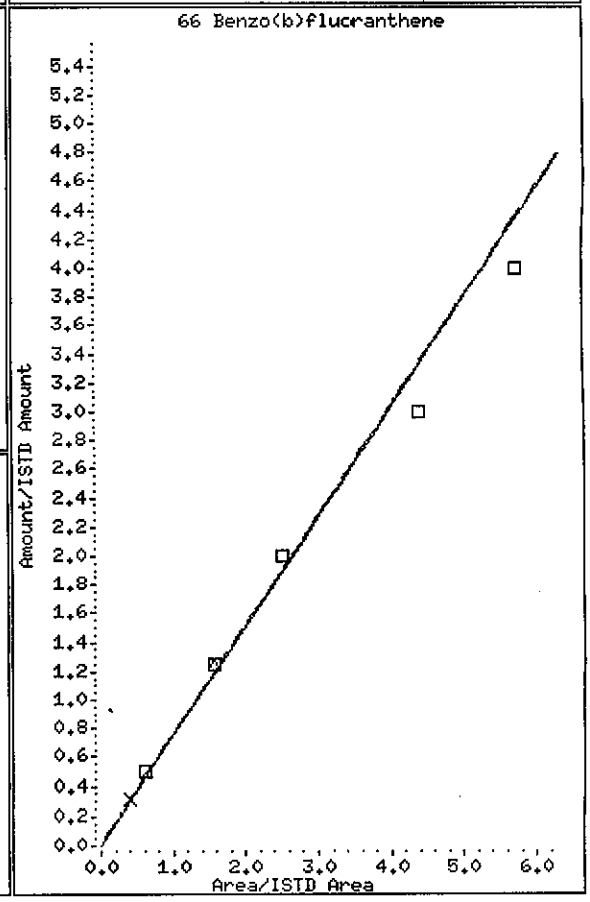
66 Benzo(b)fluoranthene

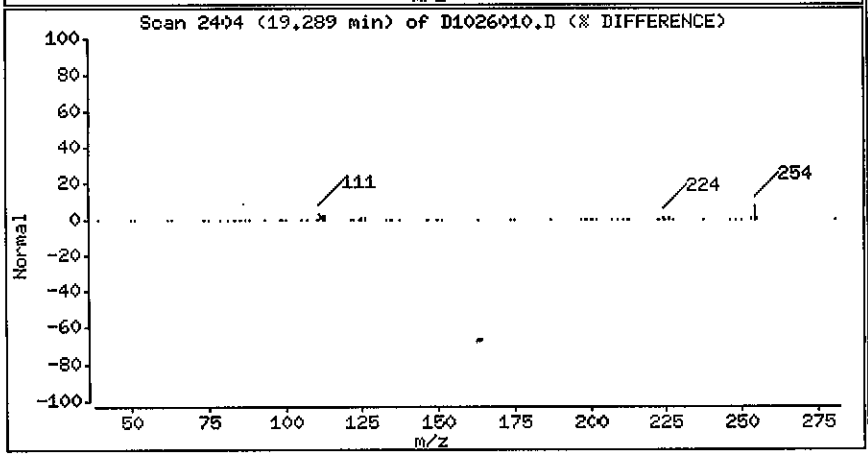




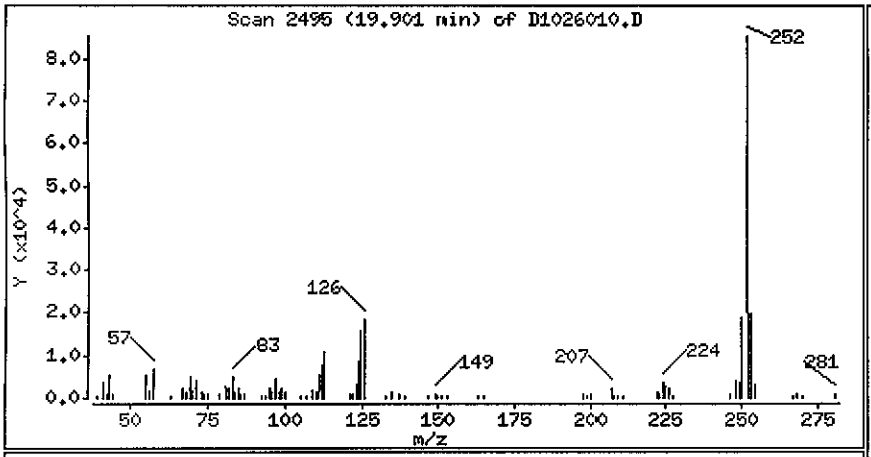


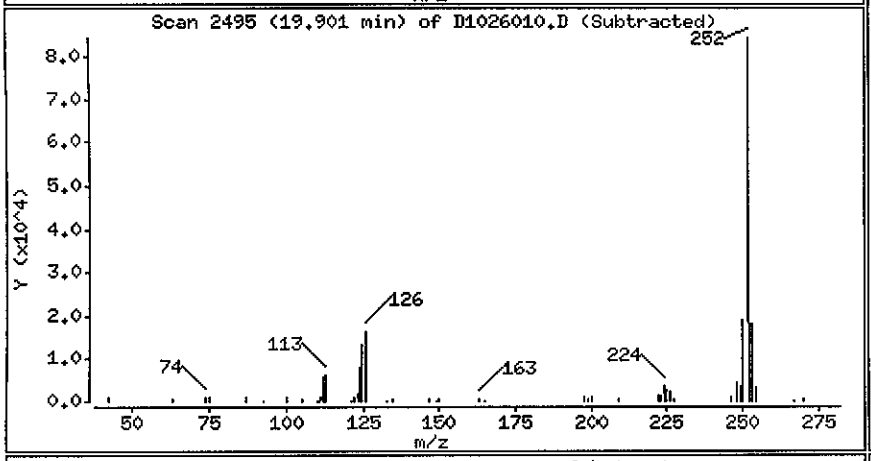


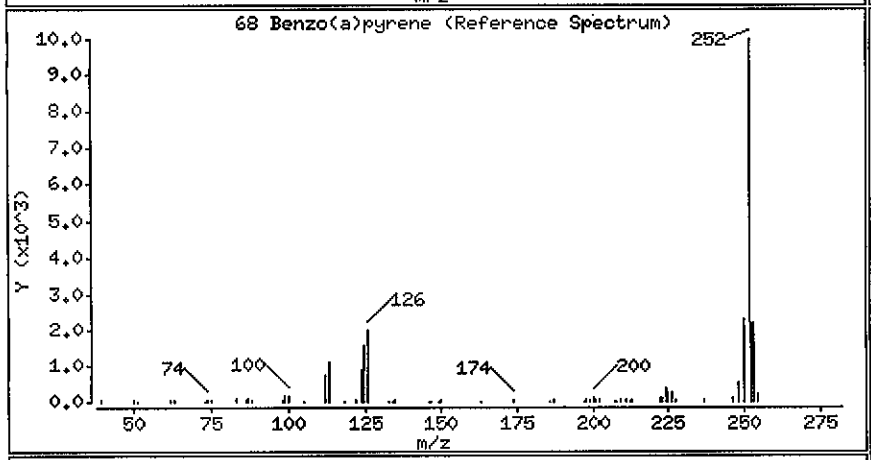


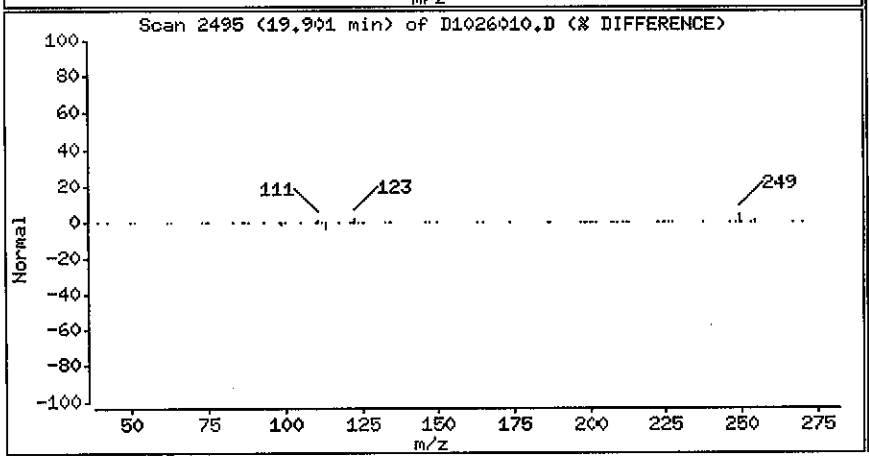


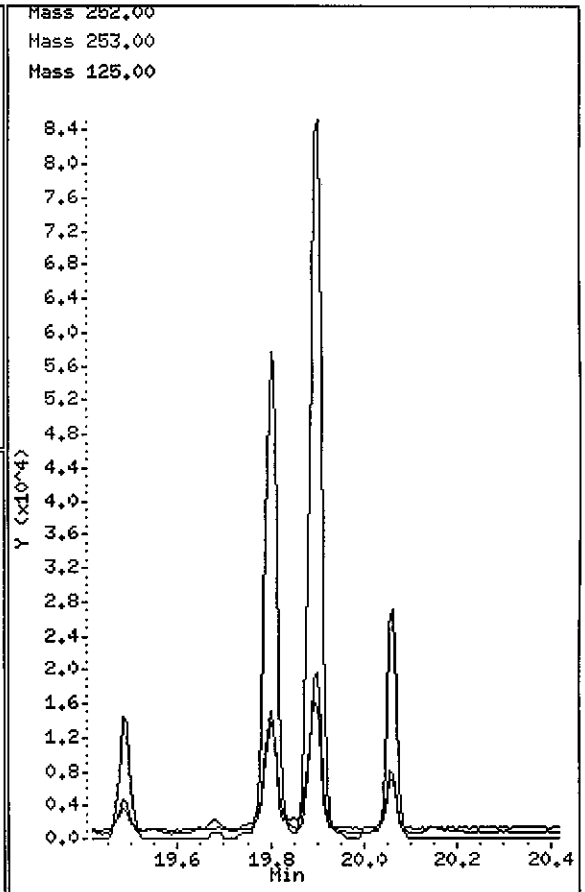
68 Benzo(a)pyrene

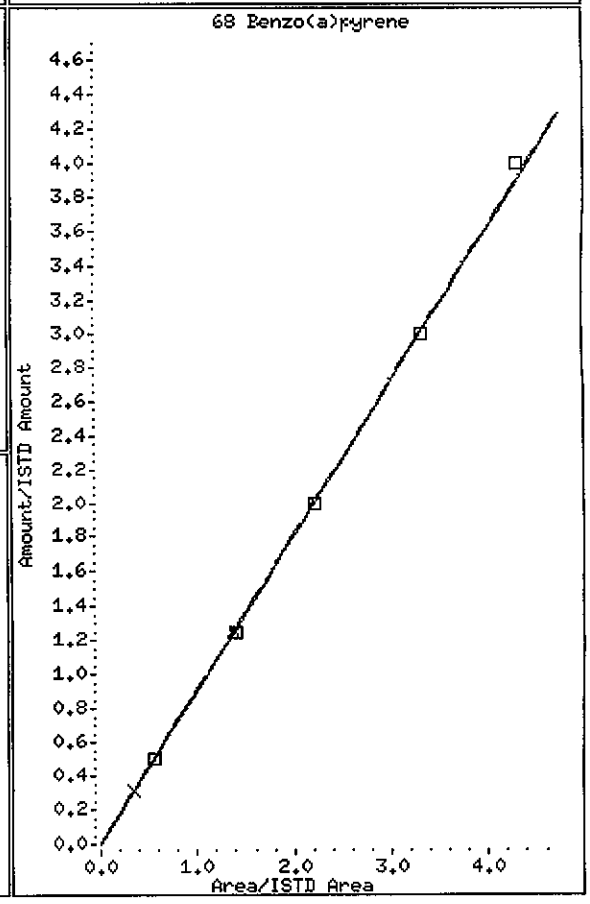




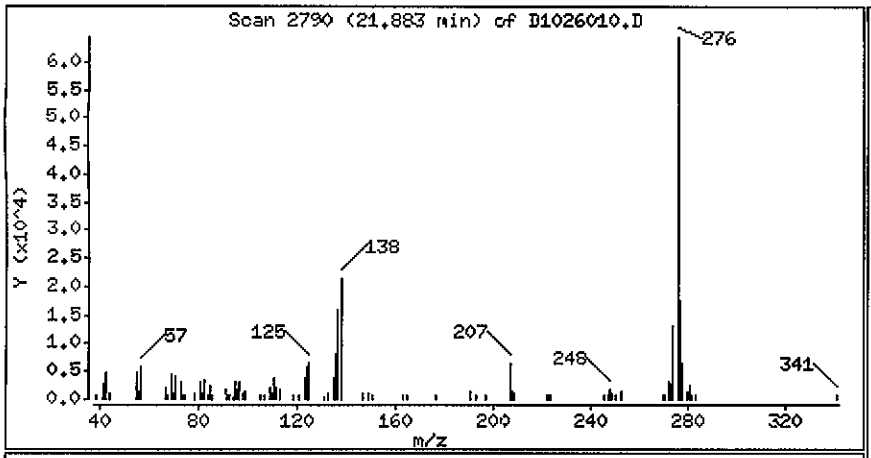


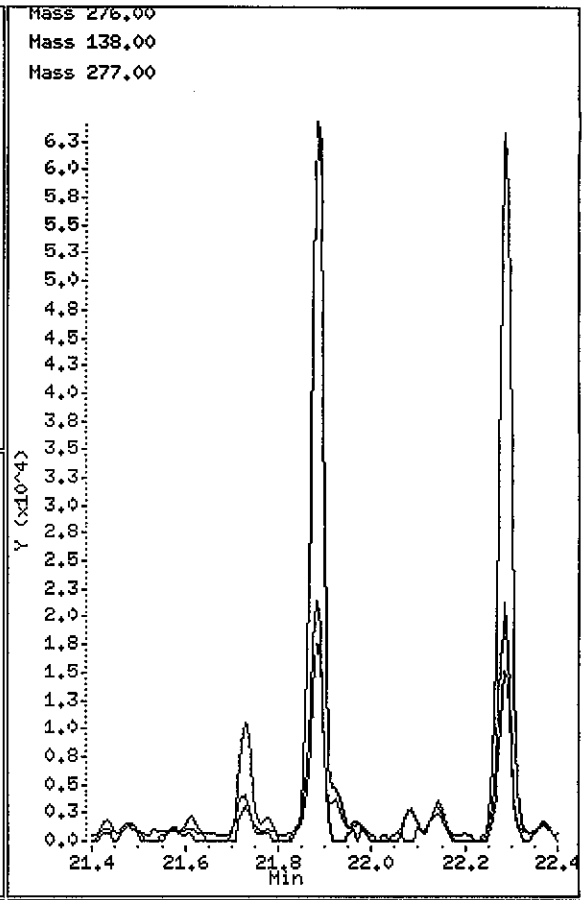


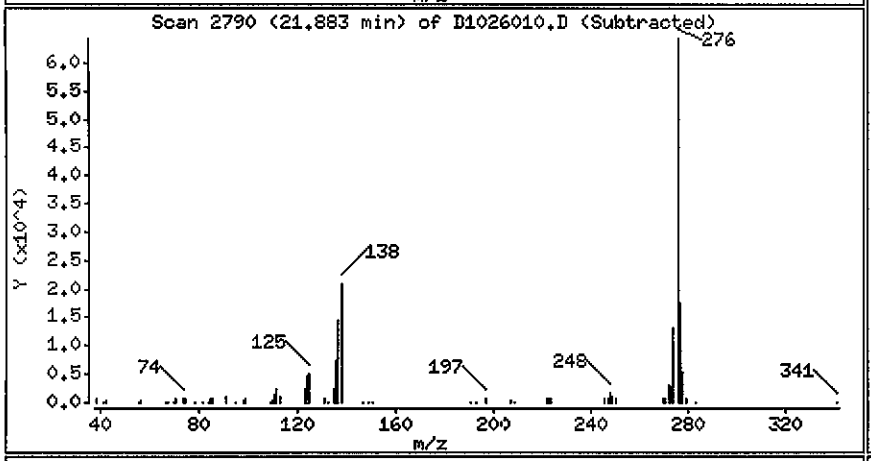


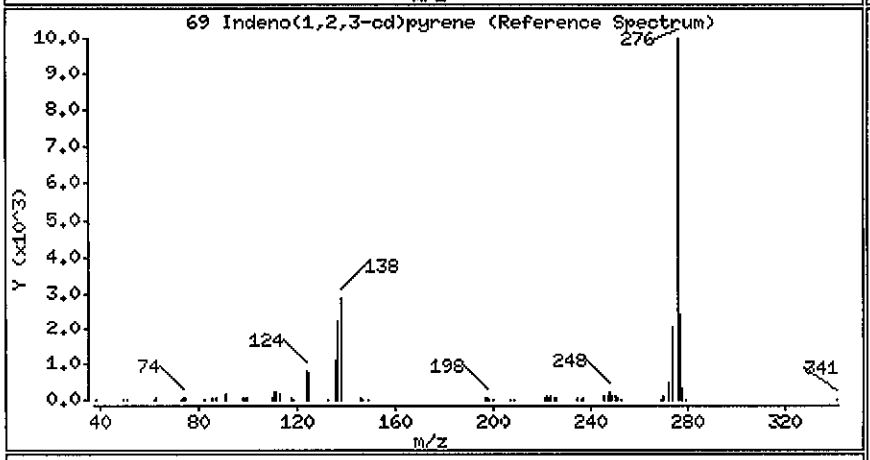


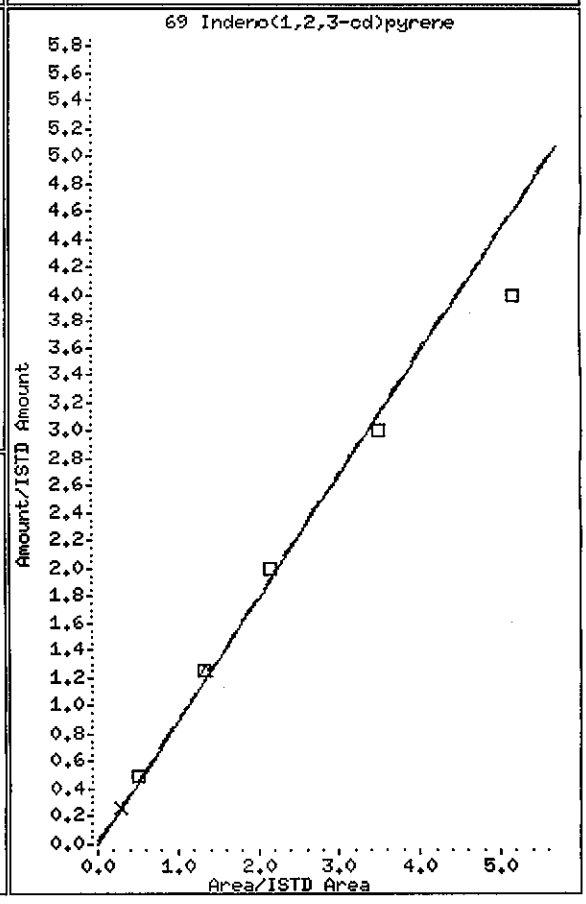
69 Indeno(1,2,3-cd)pyrene

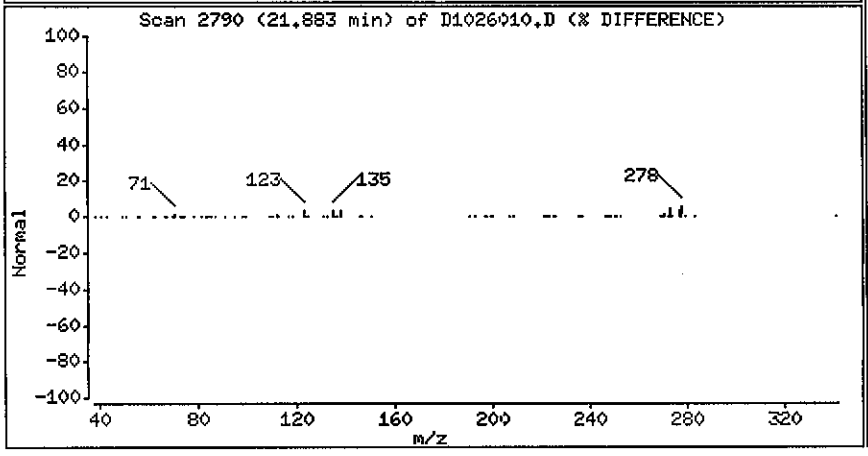












CUMMINGS-RITER CONSULTANTS INC

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J200201 002
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNHW71AC Date Extracted:10/22/00
Dilution factor: 4 Date Analyzed: 10/25/00
Moisture %:13

QC Batch: 0295166

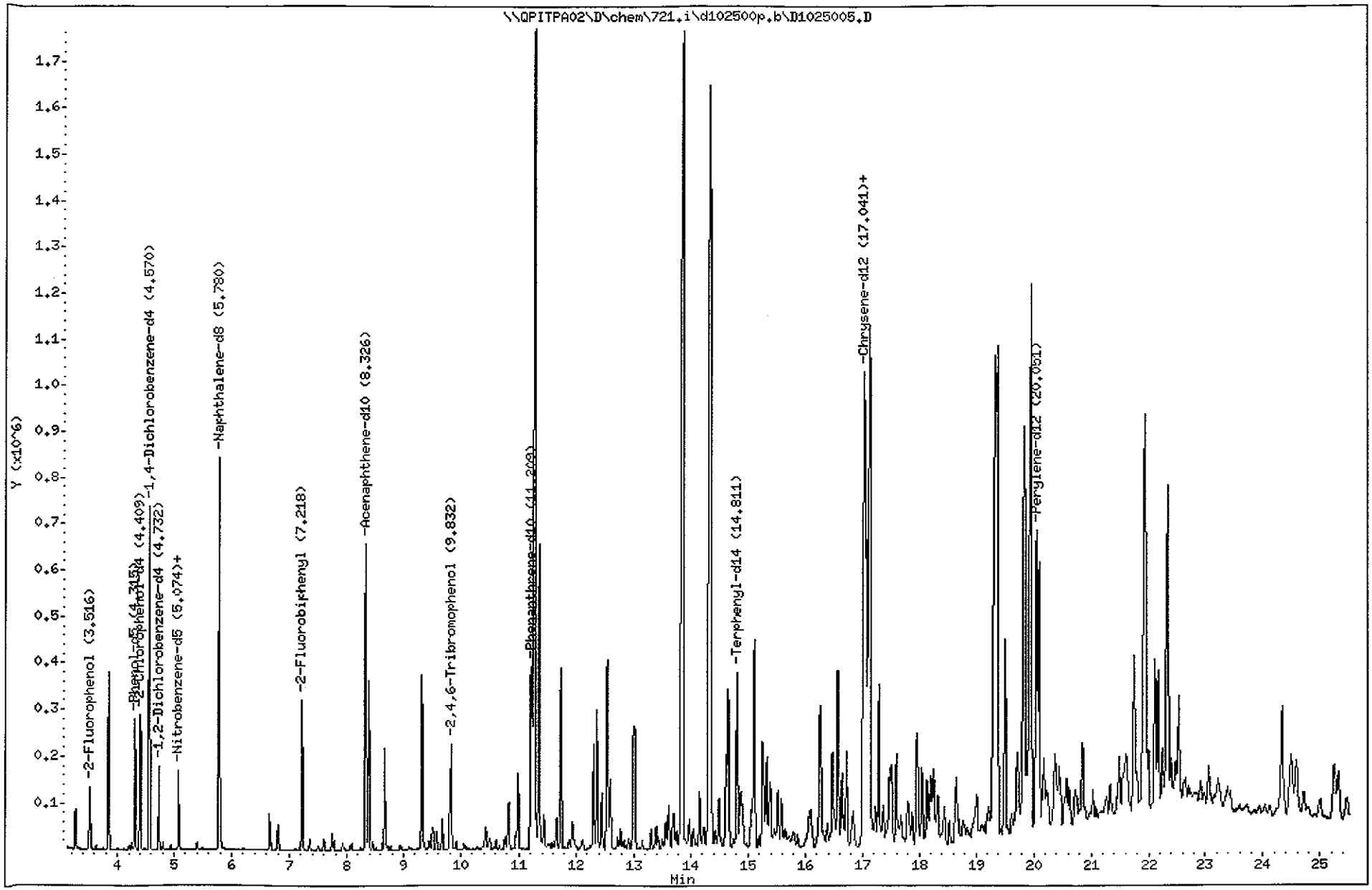
Client Sample Id: PXS-9A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	7300	
205-99-2	Benzo(b)fluoranthene	7300	
50-32-8	Benzo(a)pyrene	6300	
193-39-5	Indeno(1,2,3-cd)pyrene	4800	

FORM I

Data File: \\QPITPA02\D\chem\721.i\d102500p.b\D1025005.D
Date : 25-OCT-2000 16:22
Client ID: PXS-9A
Sample Info: c0j200201-002 4x soil 10/22/00 clp4.2
Volume Injected (uL): 2.0
Column phase:

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



STL-Pittsburgh

Semivolatile REPORT CLP3.2

Data file : \\QPITPA02\D\chem\721.i\d102500p.b\D1025005.D
Lab Smp Id: DNHW71AC Client Smp ID: PXS-9A
Inj Date : 25-OCT-2000 16:22
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j200201-002 4x soil 10/22/00 clp4.2
Misc Info : dnhw71ac,d102500p.b,clp.m,1-4.2.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d102500p.b\clp.m
Meth Date : 25-Oct-2000 16:13 ferguson Quant Type: ISTD
Cal Date : 25-OCT-2000 13:14 Cal File: D1025CCC.D
Als bottle: 8
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: 1-4.2.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-25-00

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

Name	Value	Description
DF	4.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	4.570	4.563	(1.000)	145271	40.0000	
* 2	Naphthalene-d8	136	5.779	5.779	(1.000)	529165	40.0000	
* 3	Acenaphthene-d10	164	8.326	8.332	(1.000)	238720	40.0000	
* 4	Phenanthrene-d10	188	11.209	11.201	(1.000)	385649	40.0000	
* 5	Chrysene-d12	240	17.068	17.047	(1.000)	394066	40.0000	
* 6	Perylene-d12	264	20.051	20.010	(1.000)	467955	40.0000	
191	Benzaldehyde	77	Compound Not Detected.					
7	Phenol	94	Compound Not Detected.					
8	Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9	2-Chlorophenol	128	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192	Acetophenone	105	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
18	Nitrobenzene	77	Compound Not Detected.					
19	Isophorone	82	Compound Not Detected.					
20	2-Nitrophenol	139	Compound Not Detected.					
21	2,4-Dimethylphenol	107	Compound Not Detected.					
22	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
23	2,4-Dichlorophenol	162	Compound Not Detected.					
25	Naphthalene	128	Compound Not Detected.					
26	4-Chloroaniline	127	Compound Not Detected.					
193	Caprolactam	113	Compound Not Detected.					
27	Hexachlorobutadiene	224	Compound Not Detected.					
28	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
29	2-Methylnaphthalene	142	6.653	6.653	(1.151)	31826	3.84757	256.50(a)
30	Hexachlorocyclopentadiene	236	Compound Not Detected.					
31	2,4,6-Trichlorophenol	196	Compound Not Detected.					
32	2,4,5-Trichlorophenol	196	Compound Not Detected.					
194	1,1'-Biphenyl	154	Compound Not Detected.					
33	2-Chloronaphthalene	162	Compound Not Detected.					
34	2-Nitroaniline	65	Compound Not Detected.					
35	Dimethylphthalate	163	Compound Not Detected.					
36	Acenaphthylene	152	Compound Not Detected.					
37	2,6-Dinitrotoluene	165	Compound Not Detected.					
38	3-Nitroaniline	138	Compound Not Detected.					
39	Acenaphthene	153	8.380	8.386	(1.006)	142099	20.0947	1339.6
40	2,4-Dinitrophenol	184	Compound Not Detected.					
41	4-Nitrophenol	109	Compound Not Detected.					
42	Dibenzofuran	168	8.669	8.675	(1.041)	135722	13.9531	930.21(a)
43	2,4-Dinitrotoluene	165	Compound Not Detected.					
44	Diethylphthalate	149	Compound Not Detected.					
45	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
46	Fluorene	166	9.320	9.327	(1.119)	177968	23.7392	1582.6
47	4-Nitroaniline	138	Compound Not Detected.					
48	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
49	N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
50	4-Bromophenyl-phenylether	248	Compound Not Detected.					
51	Hexachlorobenzene	283	Compound Not Detected.					
195	Atrazine	200	Compound Not Detected.					
53	Pentachlorophenol	265	Compound Not Detected.					
54	Phenanthrene	178	11.282	11.255	(1.007)	1739620	179.992	11999(A)
55	Anthracene	178	11.356	11.349	(1.013)	449915	44.9430	2996.2(Q)
56	Carbazole	167	11.733	11.739	(1.047)	265783	28.9668	1931.1
57	Di-n-Butylphthalate	149	Compound Not Detected.					
58	Fluoranthene	202	13.876	13.829	(1.238)	2188765	206.210	13747(A)
59	Pyrene	202	14.340	14.306	(0.840)	1820735	154.182	10279
60	Butylbenzylphthalate	149	Compound Not Detected.					
61	3,3'-Dichlorobenzidine	252	Compound Not Detected.					

NA

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
62	Benzo(a)Anthracene	228	17.041	17.014	(0.998)	1022797	95.4574	6363.8(Q)
63	Chrysene	228	17.135	17.108	(1.004)	960683	98.5477	6569.8
64	bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
65	Di-n-octylphthalate	149	Compound Not Detected.					
66	Benzo(b)fluoranthene	252	19.345	19.298	(0.965)	1371433	95.2527	6350.2
67	Benzo(k)fluoranthene	252	19.386	19.345	(0.967)	720547	49.4281	3295.2(H)
68	Benzo(a)pyrene	252	19.957	19.903	(0.995)	1078763	82.0948	5473.0(H)
69	Indeno(1,2,3-cd)pyrene	276	21.932	21.892	(1.094)	774703	61.9719	4131.4(Q)
70	Dibenz(a,h)anthracene	278	21.953	21.945	(1.095)	254587	19.7118	1314.1(aQ)
71	Benzo(g,h,i)perylene	276	22.342	22.302	(1.114)	635709	50.4994	3366.6
$ 72	Nitrobenzene-d5	82	5.074	5.080	(0.878)	66166	12.6366	842.44(a)
$ 73	2-Fluorobiphenyl	172	7.224	7.224	(0.868)	146194	17.0437	1136.2(a)
$ 74	Terphenyl-d14	244	14.810	14.810	(0.868)	209573	21.4581	1430.5
$ 75	Phenol-d5	99	4.315	4.314	(0.944)	115792	18.7289	1248.6(a)
$ 76	2-Fluorophenol	112	3.515	3.508	(0.769)	63440	11.5928	772.85(a)
$ 77	2,4,6-Tribromophenol	330	9.831	9.837	(0.877)	46511	29.6901	1979.3
$ 78	2-Chlorophenol-d4	132	4.409	4.408	(0.965)	89267	17.3188	1154.6(a)
$ 79	1,2-Dichlorobenzene-d4	152	4.731	4.731	(1.035)	34664	9.71964	647.98(a)

NA

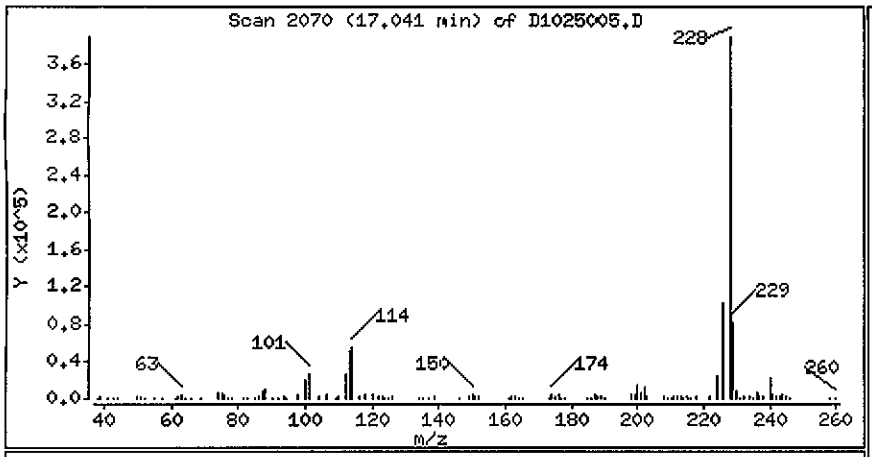
NA

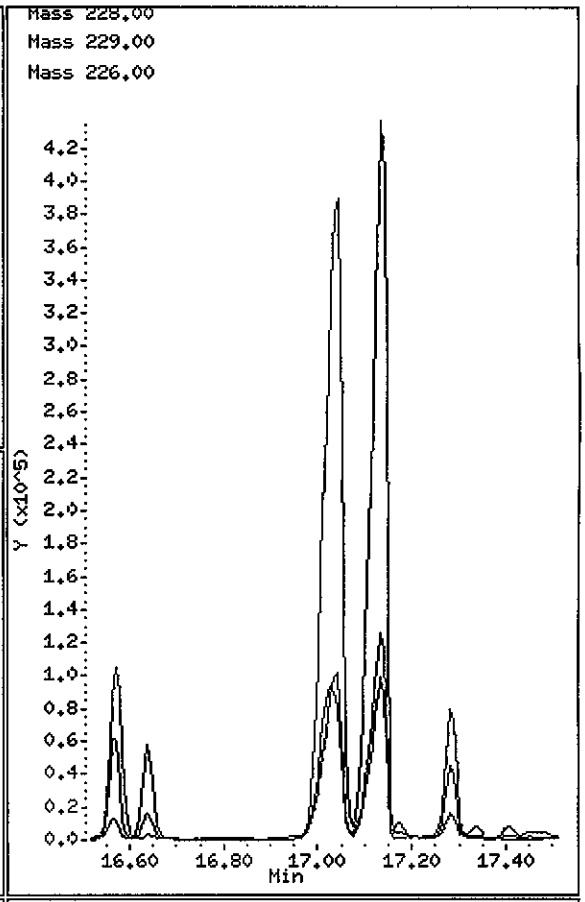
NA

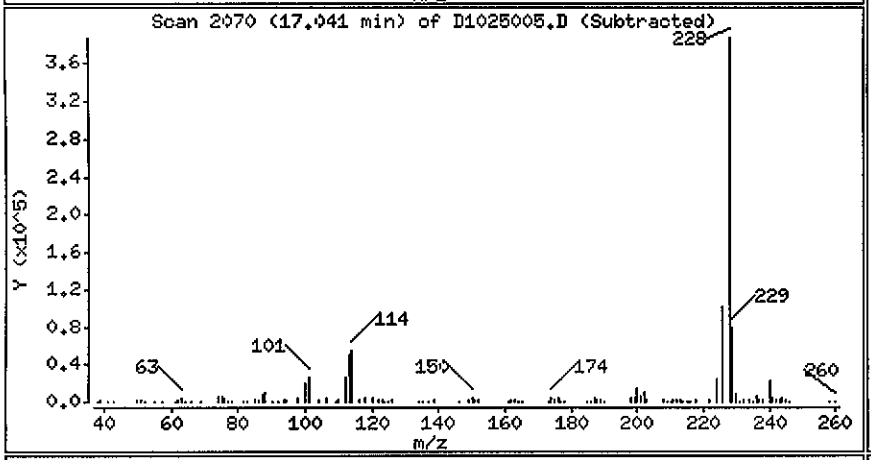
QC Flag Legend

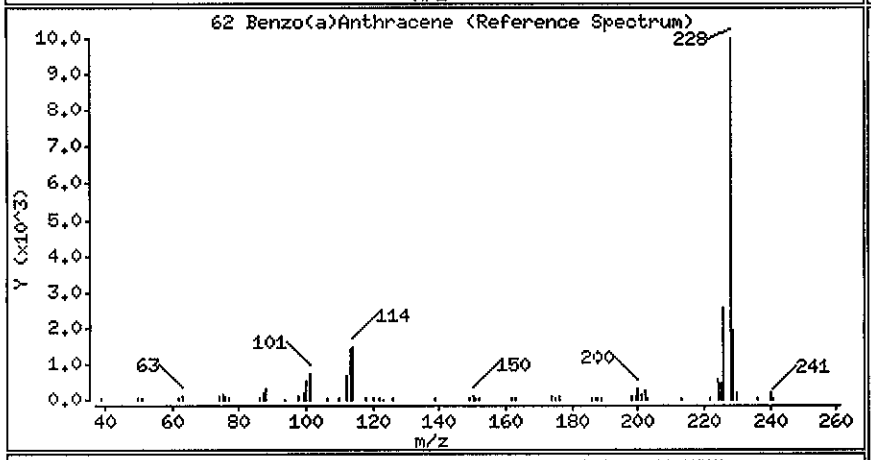
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

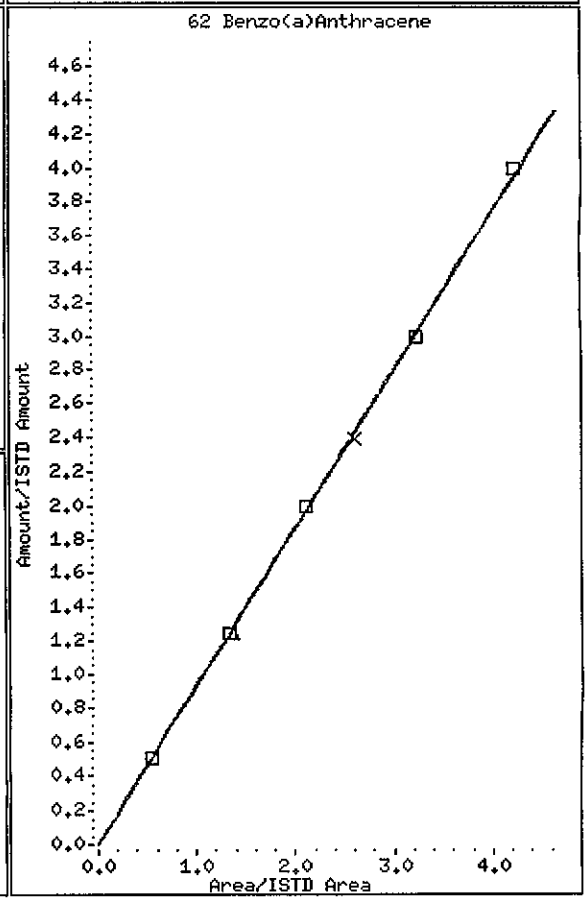
62 Benzo(a)Anthracene

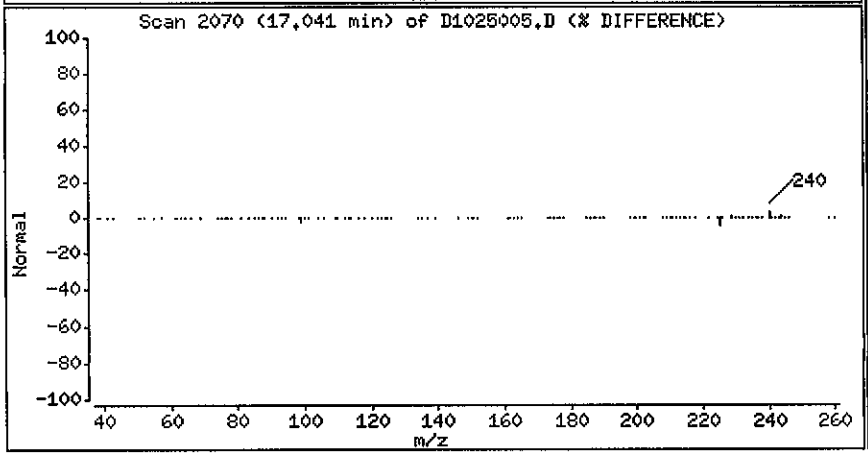




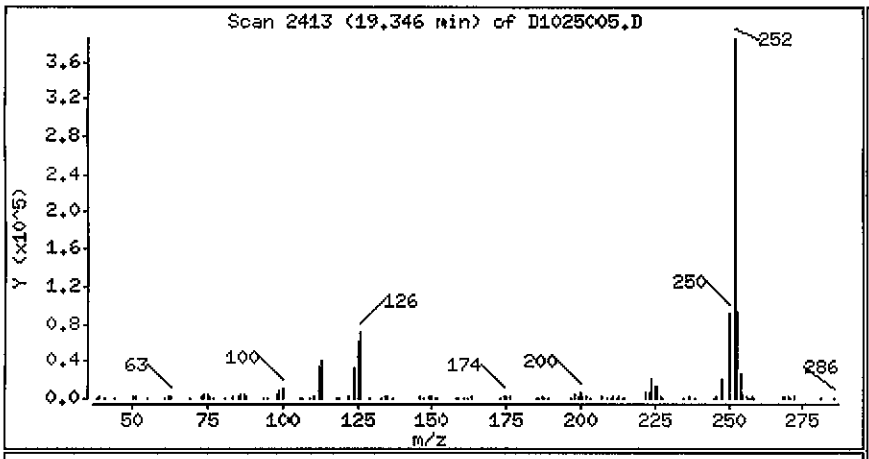


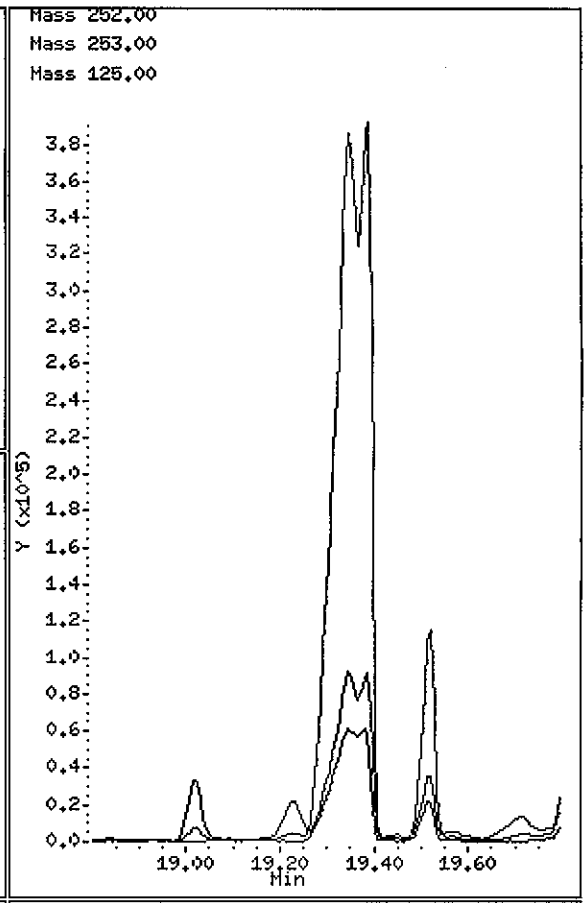


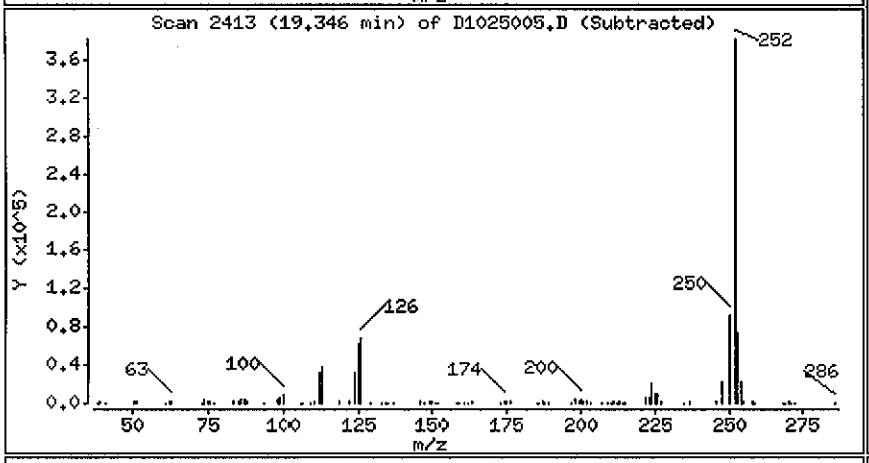


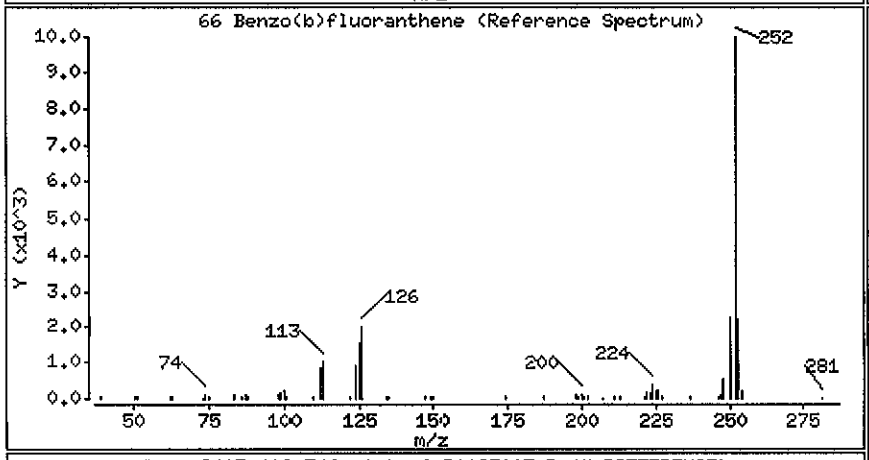


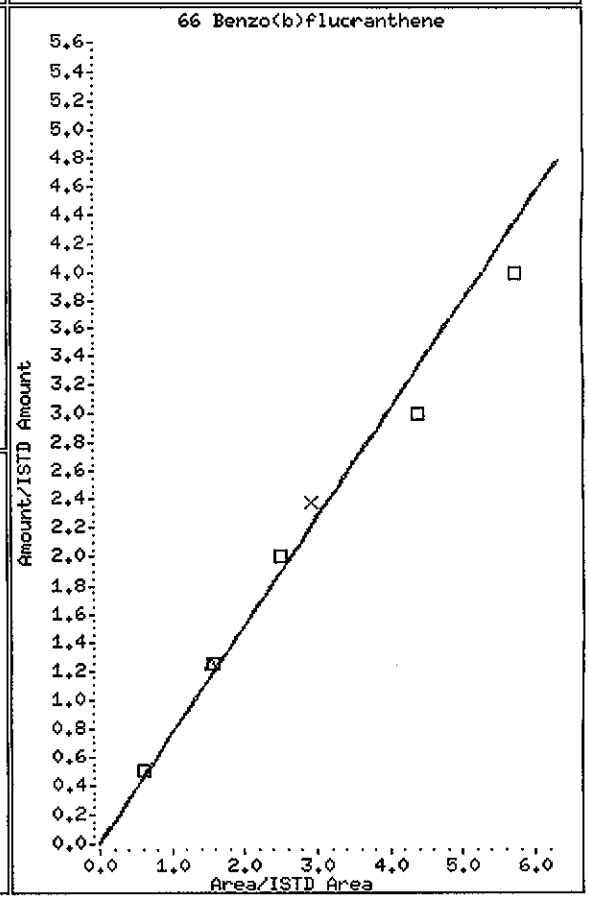
66 Benzo(b)fluoranthene

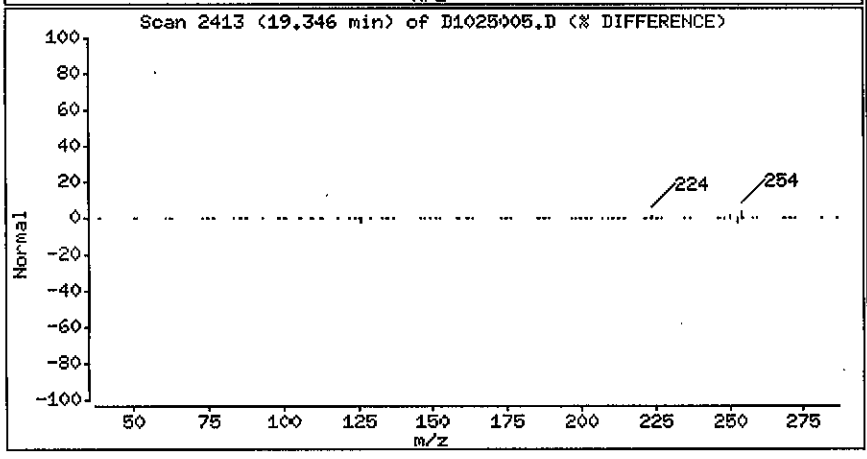




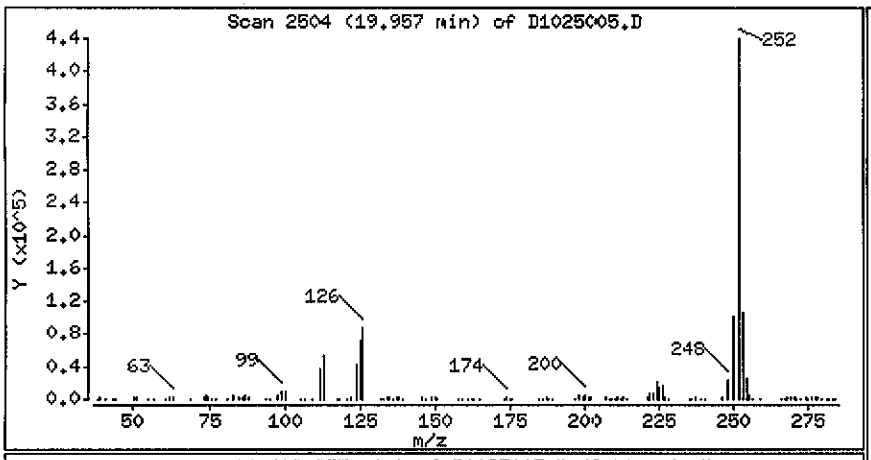


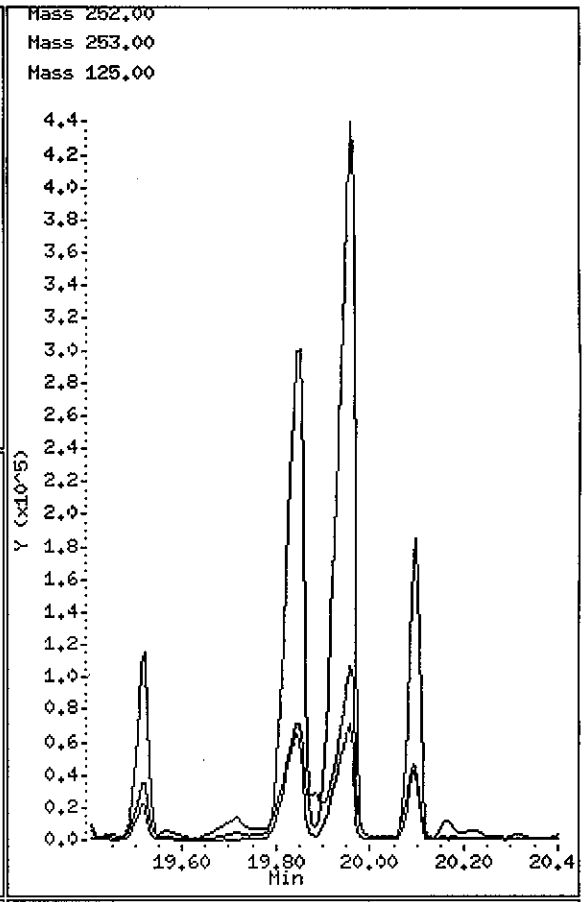


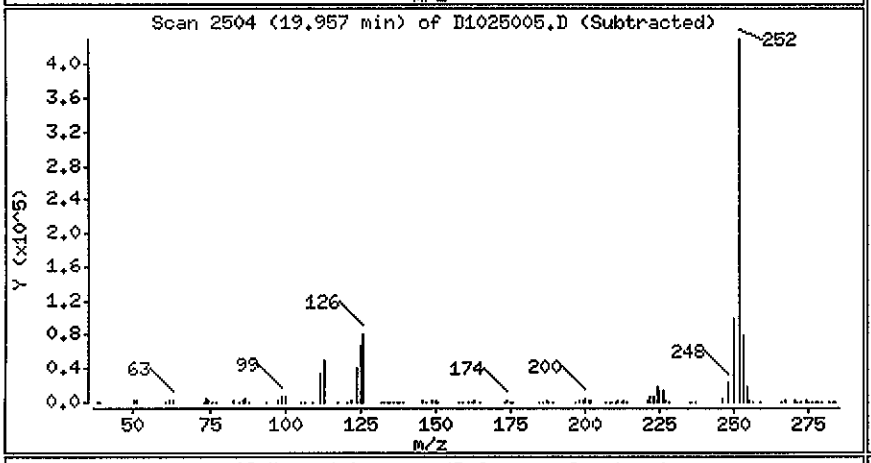


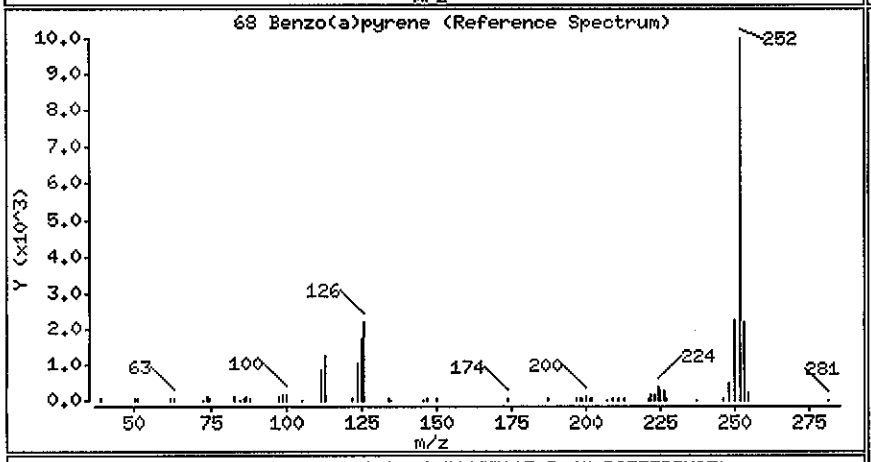


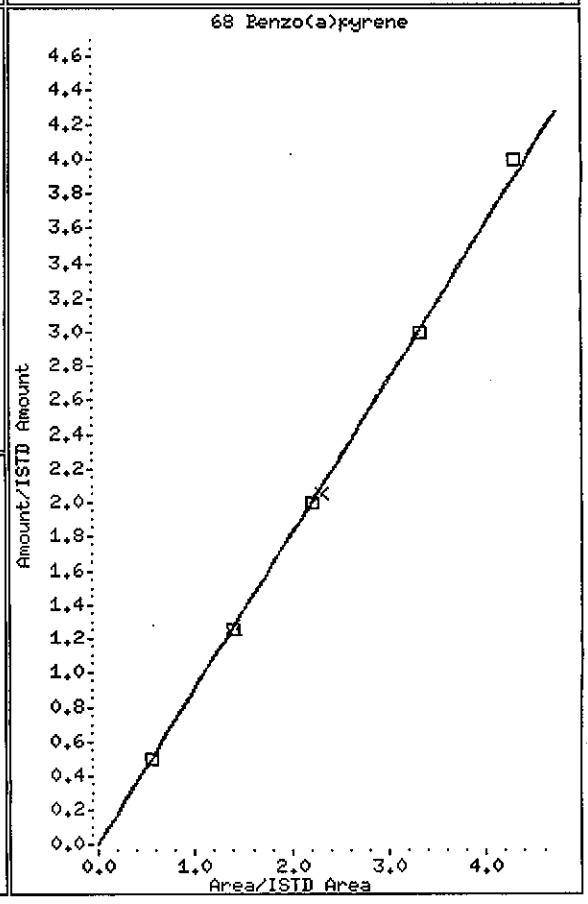
68 Benzo(a)pyrene

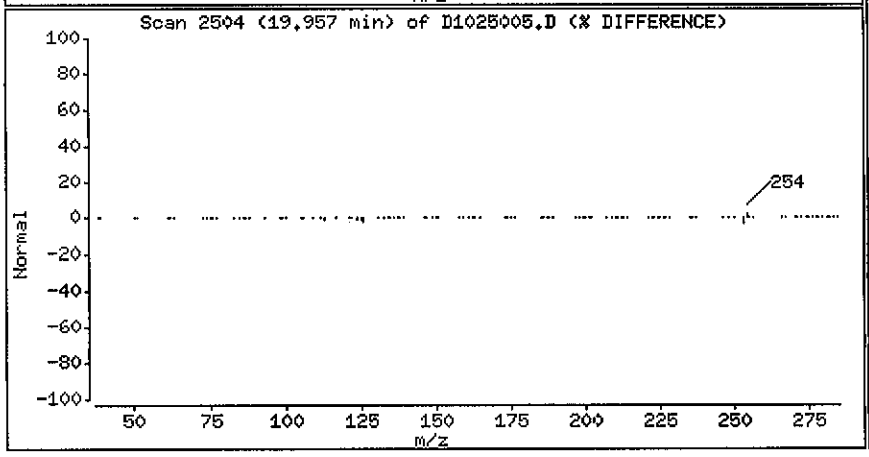




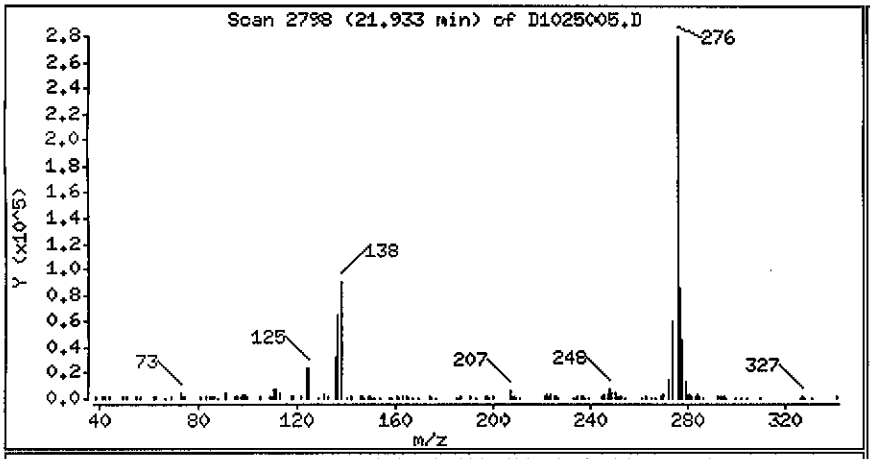


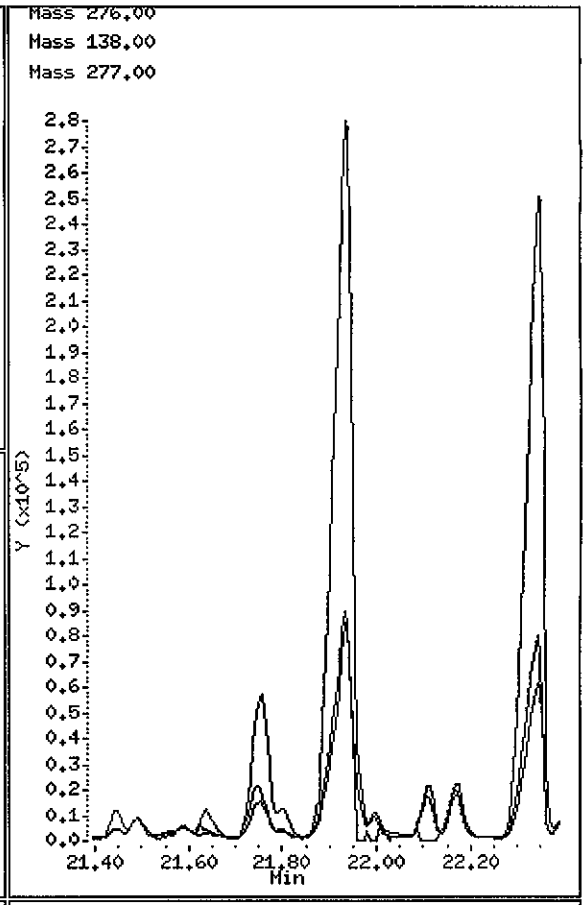


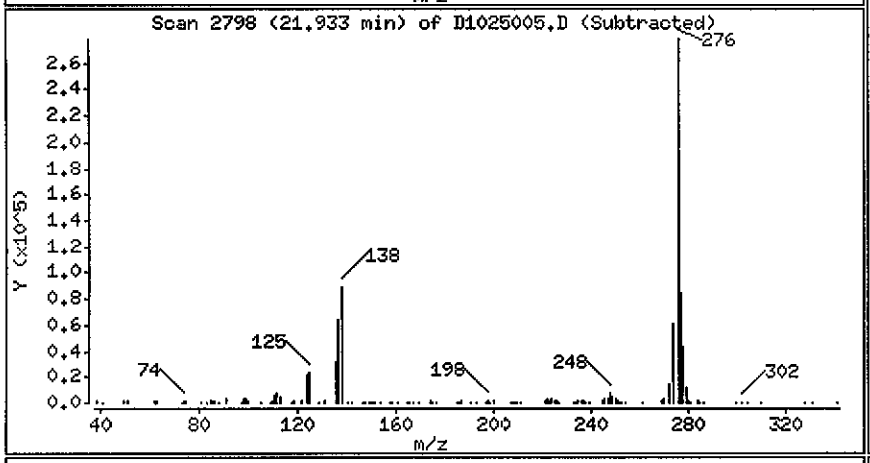


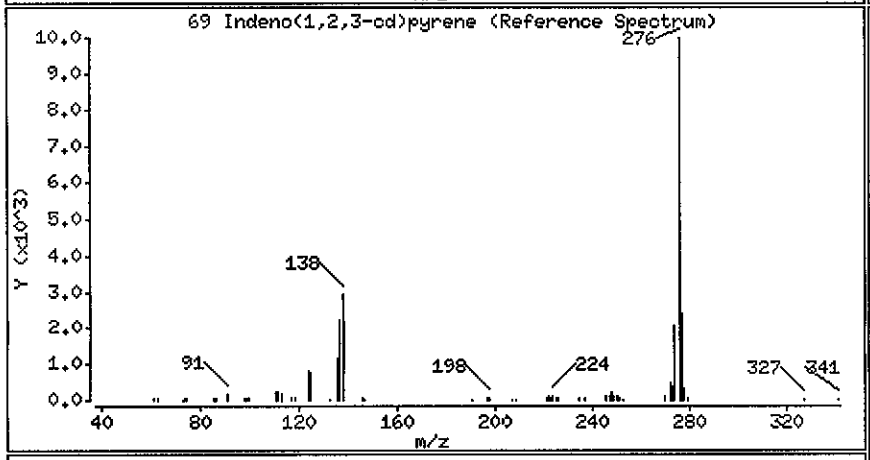


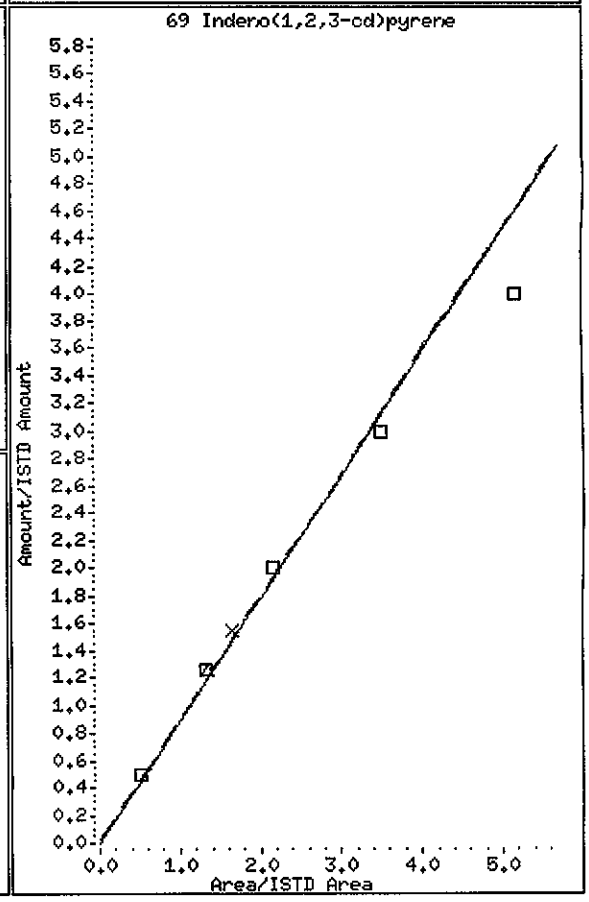
69 Indeno(1,2,3-cd)pyrene

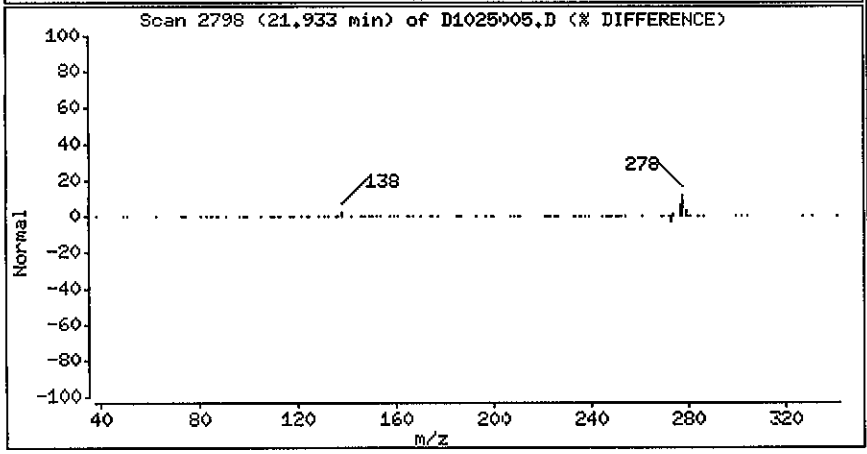












GC/MS SEMIVOLATILE
CALIBRATION DATA

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Instrument ID: 721 Calibration Date(s): 10/24/00 10/24/00

Calibration Time(s): 1329 1557

LAB FILE ID: RRF20 = D1024CC1 RRF50 = D1024CC2
RRF80 = D1024CC3 RRF120= D1024CC4 RRF160= D1024CC5

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.846	1.589	1.471	1.426	1.360	1.538	12.4*
Bis(2-chloroethyl)ether *	1.442	1.291	1.255	1.209	1.162	1.272	8.4*
2-Chlorophenol *	1.570	1.440	1.393	1.371	1.320	1.419	6.7*
2-Methylphenol *	1.272	1.210	1.137	1.120	1.072	1.162	6.8*
2,2'-oxybis(1-Chloropropane)	1.926	1.735	1.619	1.526	1.428	1.647	11.7
N-Nitroso-di-n-propylamine *	1.002	0.941	0.922	0.910	0.839	0.923	6.4*
4-Methylphenol *	1.302	1.128	1.042	1.002	0.963	1.087	12.4*
Hexachloroethane *	0.664	0.622	0.607	0.583	0.537	0.603	7.8*
Nitrobenzene *	0.384	0.360	0.342	0.335	0.322	0.349	6.9*
Isophorone *	0.690	0.656	0.638	0.641	0.640	0.653	3.4*
2-Nitrophenol *	0.229	0.230	0.224	0.225	0.213	0.224	3.0*
2,4-Dimethylphenol *	0.342	0.332	0.316	0.317	0.309	0.323	4.1*
Bis(2-chloroethoxy)methane *	0.420	0.399	0.379	0.374	0.361	0.387	6.1*
2,4-Dichlorophenol *	0.308	0.299	0.287	0.284	0.272	0.290	4.9*
Naphthalene *	1.121	1.024	0.970	0.934	0.895	0.989	8.9*
4-Chloroaniline	0.469	0.451	0.426	0.418	0.389	0.431	7.2
Hexachlorobutadiene	0.187	0.185	0.182	0.179	0.171	0.181	3.5
4-Chloro-3-Methylphenol *	0.307	0.295	0.286	0.276	0.272	0.287	4.9*
2-Methylnaphthalene *	0.674	0.617	0.588	0.568	0.544	0.598	8.4*
Hexachlorocyclopentadiene	0.456	0.458	0.470	0.467	0.459	0.462	1.3
2,4,6-Trichlorophenol *	0.436	0.431	0.437	0.435	0.438	0.435	0.6*
2,4,5-Trichlorophenol *	0.468	0.461	0.466	0.465	0.445	0.461	2.0*
2-Chloronaphthalene *	1.208	1.115	1.096	1.096	1.067	1.116	4.8*
2-Nitroaniline	0.391	0.386	0.398	0.395	0.388	0.392	1.3
Dimethylphthalate	1.417	1.384	1.399	1.387	1.365	1.390	1.4
Acenaphthylene *	1.996	1.896	1.884	1.828	1.781	1.877	4.3*
2,6-Dinitrotoluene *	0.342	0.336	0.342	0.344	0.339	0.341	0.9*
3-Nitroaniline	0.408	0.403	0.406	0.410	0.406	0.407	0.7
Acenaphthene *	1.222	1.151	1.134	1.122	1.095	1.145	4.2*
2,4-Dinitrophenol	0.105	0.182	0.214	0.237	0.248	0.197	29.1
4-Nitrophenol	0.165	0.180	0.187	0.183	0.178	0.179	4.6
Dibenzofuran *	1.677	1.611	1.577	1.513	1.486	1.573	4.9*
2,4-Dinitrotoluene *	0.445	0.447	0.458	0.471	0.462	0.457	2.4*
Diethylphthalate	1.435	1.371	1.352	1.316	1.275	1.350	4.5
4-Chlorophenyl-phenylether *	0.680	0.655	0.654	0.653	0.620	0.652	3.2*
Fluorene *	1.304	1.224	1.196	1.144	1.102	1.194	6.5*

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

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Instrument ID: 721 Calibration Date(s): 10/24/00 10/24/00

Calibration Time(s): 1329 1557

LAB FILE ID: RRF20 = D1024CC1 RRF50 = D1024CC2
RRF80 = D1024CC3 RRF120= D1024CC4 RRF160= D1024CC5

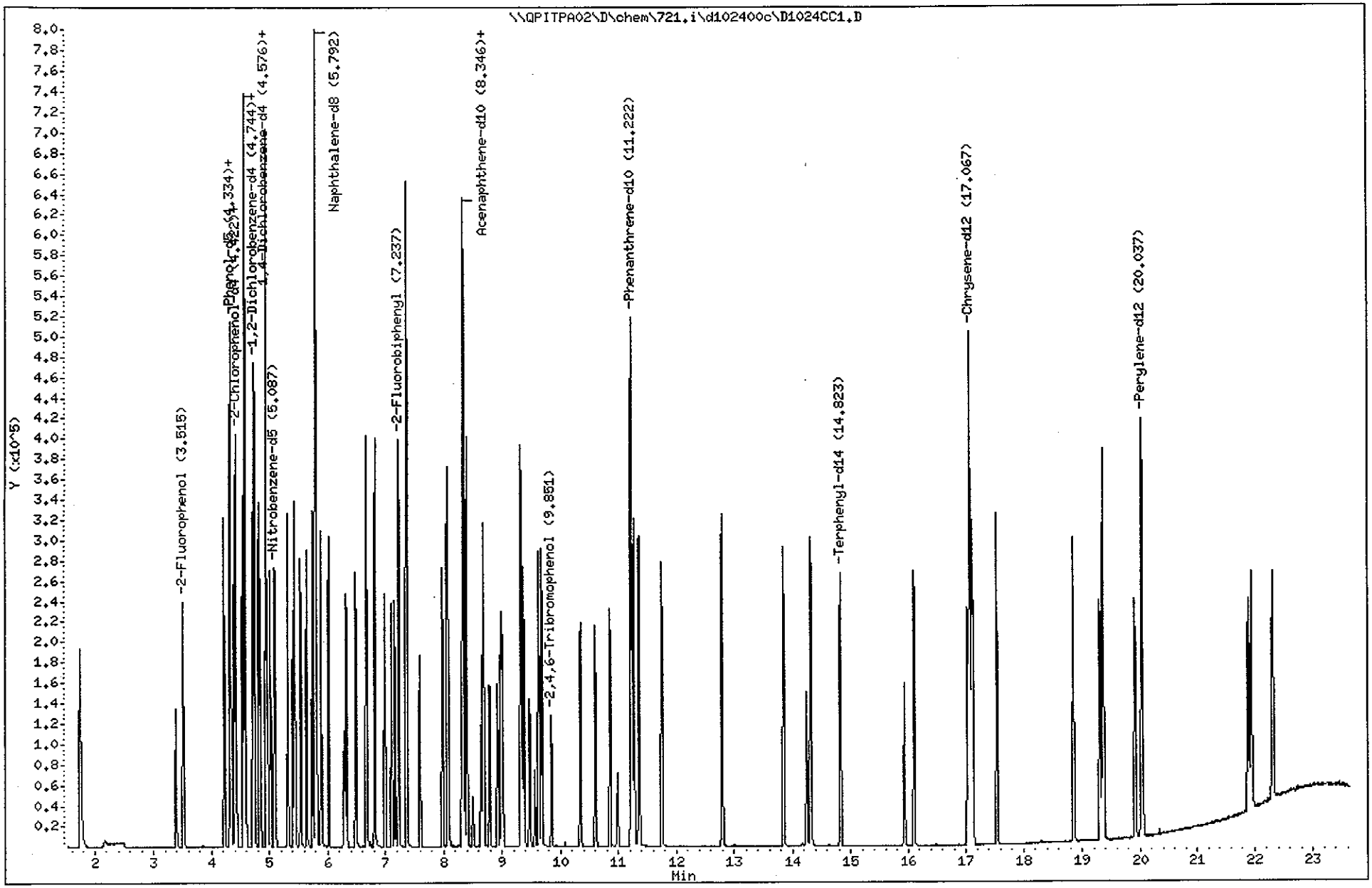
COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD	
4-Nitroaniline	0.395	0.390	0.404	0.418	0.413	0.404	2.8	
4,6-Dinitro-2-methylphenol	0.102	0.151	0.165	0.172	0.177	0.153	19.7	
N-Nitrosodiphenylamine (1)	0.586	0.564	0.526	0.530	0.507	0.543	5.9	
4-Bromophenyl-phenylether *	0.235	0.230	0.227	0.226	0.223	0.228	2.0*	
Hexachlorobenzene *	0.272	0.270	0.268	0.262	0.262	0.267	1.8*	
Pentachlorophenol *	0.075	0.125	0.145	0.155	0.162	0.132	26.5*	<-
Phenanthrene *	1.049	1.005	0.970	0.950	0.934	0.982	4.7*	
Anthracene *	1.088	1.031	0.973	0.947	0.931	0.994	6.5*	
Carbazole	0.989	0.942	0.917	0.902	0.894	0.929	4.1	
Di-n-Butylphthalate	1.405	1.355	1.309	1.268	1.231	1.314	5.2	
Fluoranthene *	1.115	1.079	1.034	1.013	0.992	1.047	4.8*	
Pyrene *	1.267	1.200	1.186	1.190	1.164	1.201	3.2*	
Butylbenzylphthalate	0.648	0.636	0.634	0.645	0.628	0.638	1.2	
3,3'-Dichlorobenzidine	0.423	0.440	0.431	0.420	0.403	0.423	3.3	
Benzo(a)Anthracene *	1.106	1.060	1.058	1.076	1.056	1.071	2.0*	
Chrysene *	1.033	0.977	0.964	0.963	0.941	0.976	3.5*	
bis(2-ethylhexyl)Phthalate	0.901	0.888	0.870	0.880	0.866	0.881	1.6	
Di-n-octylphthalate	1.782	1.782	1.754	1.699	1.603	1.724	4.4	
Benzo(b)fluoranthene *	1.214	1.245	1.252	1.456	1.436	1.321	8.8*	
Benzo(k)fluoranthene *	1.270	1.240	1.194	0.966	0.891	1.112	15.4*	
Benzo(a)pyrene *	1.122	1.115	1.100	1.106	1.075	1.104	1.6*	
Indeno(1,2,3-cd)pyrene *	1.024	1.050	1.082	1.165	1.294	1.123	9.8*	
Dibenz(a,h)anthracene *	1.069	1.118	1.120	1.165	1.171	1.129	3.7*	
Benzo(g,h,i)perylene *	1.085	1.104	1.134	1.205	1.246	1.155	5.9*	
Benzaldehyde	1.251	0.761	0.770	0.374	0.204	0.672	60.4	
Acetophenone	1.908	1.671	1.586	1.556	1.492	1.643	9.8	
Caprolactam	0.120	0.108	0.111	0.115	0.108	0.112	4.3	
1,1'-Biphenyl	1.611	1.439	1.389	1.353	1.328	1.424	7.9	
Atrazine	0.220	0.201	0.204	0.203	0.200	0.206	4.0	
Nitrobenzene-d5 *	0.394	0.392	0.366	0.355	0.344	0.370	6.1*	
2-Fluorobiphenyl *	1.415	1.398	1.330	1.314	1.270	1.345	4.5*	
Terphenyl-d14 *	0.987	1.001	0.957	0.950	0.926	0.964	3.1*	
Phenol-d5 *	1.726	1.628	1.474	1.434	1.347	1.522	10.1*	
2-Fluorophenol *	1.464	1.483	1.388	1.385	1.342	1.412	4.2*	
2,4,6-Tribromophenol	0.149	0.167	0.161	0.158	0.154	0.158	4.3	
2-Chlorophenol-d4 *	1.421	1.399	1.281	1.249	1.201	1.310	7.3*	
1,2-Dichlorobenzene-d4 *	0.998	0.954	0.872	0.822	0.789	0.887	9.9*	

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

Data File: \\QPITPA02\D\chem\721.i\d102400c\D1024CC1.D
Date : 24-OCT-2000 13:29
Client ID: SSTD020
Sample Info: SSTD020 (10ug/ml) 77-01-5 8270/clp/625

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

Column phase:



STL-Pittsburgh

Semivolatile REPORT CLP3.2

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Inj Date : 24-OCT-2000 13:29
Operator : 001562, DLF Inst ID: 721.i
Smp Info : SSTD020 (10ug/ml) 77-01-5 8270/clp/625
Misc Info : sstd20,d102400c.b,clp.m,1-all.sub,1,1
Comment :
Method : \\QPITPA02\D\chem\721.i\d102400c\clp.m
Meth Date : 24-Oct-2000 17:45 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 13:29 Cal File: D1024CC1.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-24-00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.576	4.576	(1.000)	125309	40.0000	
* 2	Naphthalene-d8	136	5.792	5.792	(1.000)	475044	40.0000	
* 3	Acenaphthene-d10	164	8.345	8.345	(1.000)	231688	40.0000	
* 4	Phenanthrene-d10	188	11.221	11.221	(1.000)	385232	40.0000	
* 5	Chrysene-d12	240	17.067	17.067	(1.000)	337051	40.0000	
* 6	Perylene-d12	264	20.037	20.037	(1.000)	285124	40.0000	
191	Benzaldehyde	77	4.226	4.226	(0.924)	78364	20.0000	37.223
7	Phenol	94	4.334	4.334	(0.947)	115682	20.0000	23.997
8	Bis(2-chloroethyl)ether	93	4.394	4.394	(0.960)	90350	20.0000	22.675
9	2-Chlorophenol	128	4.428	4.428	(0.968)	98383	20.0000	22.136
10	1,3-Dichlorobenzene	146	4.542	4.542	(0.993)	102224	20.0000	21.713
11	1,4-Dichlorobenzene	146	4.589	4.589	(1.003)	102153	20.0000	21.892
12	1,2-Dichlorobenzene	146	4.751	4.751	(1.038)	94827	20.0000	22.598
189	Benzyl Alcohol	108	4.710	4.710	(1.029)	60121	20.0000	21.596
13	2-Methylphenol	108	4.824	4.824	(1.054)	79726	20.0000	21.897
14	2,2'-oxybis(1-Chloropropane)	45	4.845	4.845	(1.059)	120671	20.0000	23.390
192	Acetophenone	105	4.952	4.952	(1.082)	119524	20.0000	23.231
15	4-Methylphenol	108	4.945	4.945	(1.081)	81610	20.0000	23.952
16	N-Nitroso-di-n-propylamine	70	4.972	4.972	(1.087)	62798	20.0000	21.720
17	Hexachloroethane	117	5.019	5.019	(1.097)	41606	20.0000	22.039
18	Nitrobenzene	77	5.107	5.107	(0.882)	91117	20.0000	22.006
19	Isophorone	82	5.322	5.322	(0.919)	163890	20.0000	21.135
20	2-Nitrophenol	139	5.409	5.409	(0.934)	54416	20.0000	20.420
21	2,4-Dimethylphenol	107	5.443	5.443	(0.940)	81207	20.0000	21.149
22	Bis(2-chloroethoxy)methane	93	5.543	5.543	(0.957)	99885	20.0000	21.756
190	Benzoic acid	122	5.543	5.543	(0.957)	5759	20.0000	6.9322(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
23	2,4-Dichlorophenol	162	5.644	5.644	(0.974)	73167	20.0000	21.259
24	1,2,4-Trichlorobenzene	180	5.745	5.745	(0.992)	76507	20.0000	21.056
25	Naphthalene	128	5.812	5.812	(1.003)	266241	20.0000	22.670
26	4-Chloroaniline	127	5.893	5.893	(1.017)	111403	20.0000	21.777
193	Caprolactam	113	6.289	6.289	(1.086)	28470	20.0000	21.306
27	Hexachlorobutadiene	225	6.020	6.020	(1.039)	44364	20.0000	20.668
28	4-Chloro-3-Methylphenol	107	6.484	6.484	(1.119)	72857	20.0000	21.368
29	2-Methylnaphthalene	142	6.665	6.665	(1.151)	160008	20.0000	22.534
30	Hexachlorocyclopentadiene	237	6.995	6.995	(0.838)	52817	20.0000	19.736
31	2,4,6-Trichlorophenol	196	7.116	7.116	(0.853)	50505	20.0000	20.019
32	2,4,5-Trichlorophenol	196	7.169	7.169	(0.859)	54225	20.0000	20.304
194	1,1'-Biphenyl	154	7.371	7.371	(0.883)	186674	20.0000	22.635
33	2-Chloronaphthalene	162	7.378	7.378	(0.884)	139924	20.0000	21.640
34	2-Nitroaniline	65	7.599	7.599	(0.911)	45323	20.0000	19.987
35	Dimethylphthalate	163	7.989	7.989	(0.957)	164107	20.0000	20.376
36	Acenaphthylene	152	8.070	8.070	(0.967)	231240	20.0000	21.270
37	2,6-Dinitrotoluene	165	8.090	8.090	(0.969)	39585	20.0000	20.061
38	3-Nitroaniline	138	8.318	8.318	(0.997)	47302	20.0000	20.084
39	Acenaphthene	153	8.399	8.399	(1.006)	141571	20.0000	21.352
40	2,4-Dinitrophenol	184	8.500	8.500	(1.019)	12174	20.0000	10.648
41	4-Nitrophenol	109	8.648	8.648	(1.036)	19141	20.0000	18.480
42	Dibenzofuran	168	8.688	8.688	(1.041)	194284	20.0000	21.329
43	2,4-Dinitrotoluene	165	8.795	8.795	(1.054)	51537	20.0000	19.477
44	Diethylphthalate	149	9.320	9.320	(1.117)	166277	20.0000	21.266
45	4-Chlorophenyl-phenylether	204	9.380	9.380	(1.124)	78755	20.0000	20.838
46	Fluorene	166	9.340	9.340	(1.119)	151039	20.0000	21.838
47	4-Nitroaniline	138	9.474	9.474	(1.135)	45770	20.0000	19.560
48	4,6-Dinitro-2-methylphenol	198	9.561	9.561	(0.852)	19746	20.0000	13.348
49	N-Nitrosodiphenylamine (1)	169	9.629	9.629	(0.858)	112828	20.0000	21.592
50	4-Bromophenyl-phenylether	248	10.348	10.348	(0.922)	45235	20.0000	20.581
51	Hexachlorobenzene	284	10.603	10.603	(0.945)	52465	20.0000	20.422
195	Atrazine	200	10.858	10.858	(0.968)	42402	20.0000	21.420
53	Pentachlorophenol	266	10.993	10.993	(0.980)	14419	20.0000	11.288
54	Phenanthrene	178	11.268	11.268	(1.004)	202013	20.0000	21.371
55	Anthracene	178	11.362	11.362	(1.013)	209564	20.0000	21.889
56	Carbazole	167	11.752	11.752	(1.047)	190554	20.0000	21.299
57	Di-n-Butylphthalate	149	12.800	12.800	(1.141)	270557	20.0000	21.386
58	Fluoranthene	202	13.848	13.848	(1.234)	214768	20.0000	21.307
59	Pyrene	202	14.319	14.319	(0.839)	213506	20.0000	21.090
60	Butylbenzylphthalate	149	16.106	16.106	(0.944)	109124	20.0000	20.297
61	3,3'-Dichlorobenzidine	252	17.100	17.100	(1.002)	71334	20.0000	19.986
62	Benzo(a)Anthracene	228	17.027	17.027	(0.998)	186430	20.0000	20.651
63	Chrysene	228	17.121	17.121	(1.003)	174023	20.0000	21.172
64	bis(2-ethylhexyl)Phthalate	149	17.537	17.537	(1.028)	151868	20.0000	20.455
65	Di-n-octylphthalate	149	18.854	18.854	(0.941)	254012	20.0000	20.672
66	Benzo(b)fluoranthene	252	19.304	19.304	(0.963)	173011	20.0000	18.381
67	Benzo(k)fluoranthene	252	19.358	19.358	(0.966)	181077	20.0000	22.840

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	68 Benzo(a)pyrene	252	19.916	19.916	(0.994)	159920	20.0000	20.333
	69 Indeno(1,2,3-cd)pyrene	276	21.898	21.898	(1.093)	145968	20.0000	18.233
	70 Dibenz(a,h)anthracene	278	21.952	21.952	(1.096)	152415	20.0000	18.946
	71 Benzo(g,h,i)perylene	276	22.308	22.308	(1.113)	154636	20.0000	18.786
$	72 Nitrobenzene-d5	82	5.086	5.086	(0.878)	93701	20.0000	21.312
$	73 2-Fluorobiphenyl	172	7.237	7.237	(0.867)	163899	20.0000	21.032
$	74 Terphenyl-d14	244	14.823	14.823	(0.869)	166345	20.0000	20.469
$	75 Phenol-d5	99	4.320	4.320	(0.944)	108160	20.0000	22.688
$	76 2-Fluorophenol	112	3.514	3.514	(0.768)	91722	20.0000	20.730
$	77 2,4,6-Tribromophenol	330	9.850	9.850	(0.878)	28768	20.0000	18.914
$	78 2-Chlorophenol-d4	132	4.415	4.415	(0.965)	89063	20.0000	21.699
$	79 1,2-Dichlorobenzene-d4	152	4.737	4.737	(1.035)	62540	20.0000	22.505

QC Flag Legend

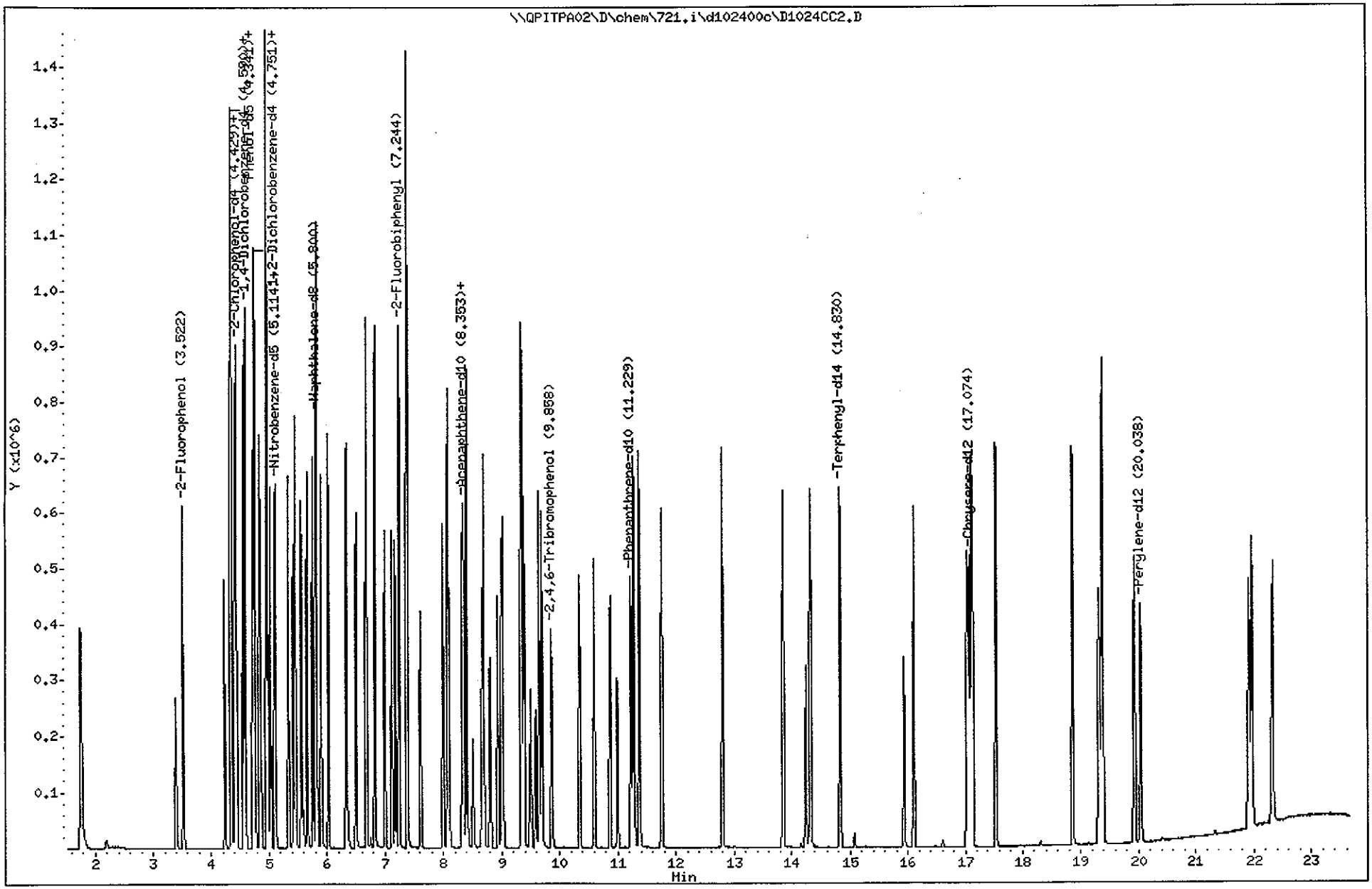
H - Operator selected an alternate compound hit.

Data File: \\QPITPA02\D\chem\721.i\d102400c\D1024CC2.D
Date : 24-OCT-2000 13:58
Client ID: SSTD050
Sample Info: SSTD050 (25ug/ml) 77-03-1 8270/clp/625

Instrument: 721.i

Operator: 001562, DLF
Column diameter: 0.25

Column phase:



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Semivolatile REPORT CLP3.2

Data file : \\QPITPA02\D\chem\721.i\d102400c\D1024CC2.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 24-OCT-2000 13:58
Operator : 001562, DLF Inst ID: 721.i
Smp Info : SSTD050 (25ug/ml) 77-03-1 8270/clp/625
Misc Info : sstd50,d102400c.b,clp.m,1-all.sub,1,2
Comment :
Method : \\QPITPA02\D\chem\721.i\d102400c\clp.m
Meth Date : 24-Oct-2000 17:46 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 13:29 Cal File: D1024CC1.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-24-00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.583	4.583	(1.000)	127589	40.0000	
* 2	Naphthalene-d8	136	5.799	5.799	(1.000)	471696	40.0000	
* 3	Acenaphthene-d10	164	8.352	8.352	(1.000)	228312	40.0000	
* 4	Phenanthrene-d10	188	11.228	11.228	(1.000)	382438	40.0000	
* 5	Chrysene-d12	240	17.074	17.074	(1.000)	337287	40.0000	
* 6	Perylene-d12	264	20.037	20.037	(1.000)	282797	40.0000	
191	Benzaldehyde	77	4.227	4.227	(0.922)	121369	50.0000	56.621
7	Phenol	94	4.341	4.341	(0.947)	253498	50.0000	51.647
8	Bis(2-chloroethyl)ether	93	4.401	4.401	(0.960)	205837	50.0000	50.736
9	2-Chlorophenol	128	4.435	4.435	(0.968)	229623	50.0000	50.743
10	1,3-Dichlorobenzene	146	4.549	4.549	(0.993)	242993	50.0000	50.690
11	1,4-Dichlorobenzene	146	4.596	4.596	(1.003)	244398	50.0000	51.439
12	1,2-Dichlorobenzene	146	4.758	4.758	(1.038)	221167	50.0000	51.764
189	Benzyl Alcohol	108	4.724	4.724	(1.031)	148395	50.0000	52.353
13	2-Methylphenol	108	4.831	4.831	(1.054)	192981	50.0000	52.057
14	2,2'-oxybis(1-Chloropropane)	45	4.852	4.852	(1.059)	276781	50.0000	52.691
192	Acetophenone	105	4.959	4.959	(1.082)	266448	50.0000	50.862
15	4-Methylphenol	108	4.952	4.952	(1.081)	179852	50.0000	51.842
16	N-Nitroso-di-n-propylamine	70	4.986	4.986	(1.088)	150099	50.0000	50.987
17	Hexachloroethane	117	5.026	5.026	(1.097)	99161	50.0000	51.587
18	Nitrobenzene	77	5.114	5.114	(0.882)	212566	50.0000	51.703
19	Isophorone	82	5.335	5.335	(0.920)	386856	50.0000	50.242
20	2-Nitrophenol	139	5.416	5.416	(0.934)	135815	50.0000	51.328
21	2,4-Dimethylphenol	107	5.450	5.450	(0.940)	195767	50.0000	51.347
22	Bis(2-chloroethoxy)methane	93	5.550	5.550	(0.957)	235374	50.0000	51.631
190	Benzoic acid	122	5.591	5.591	(0.964)	40219	50.0000	48.756

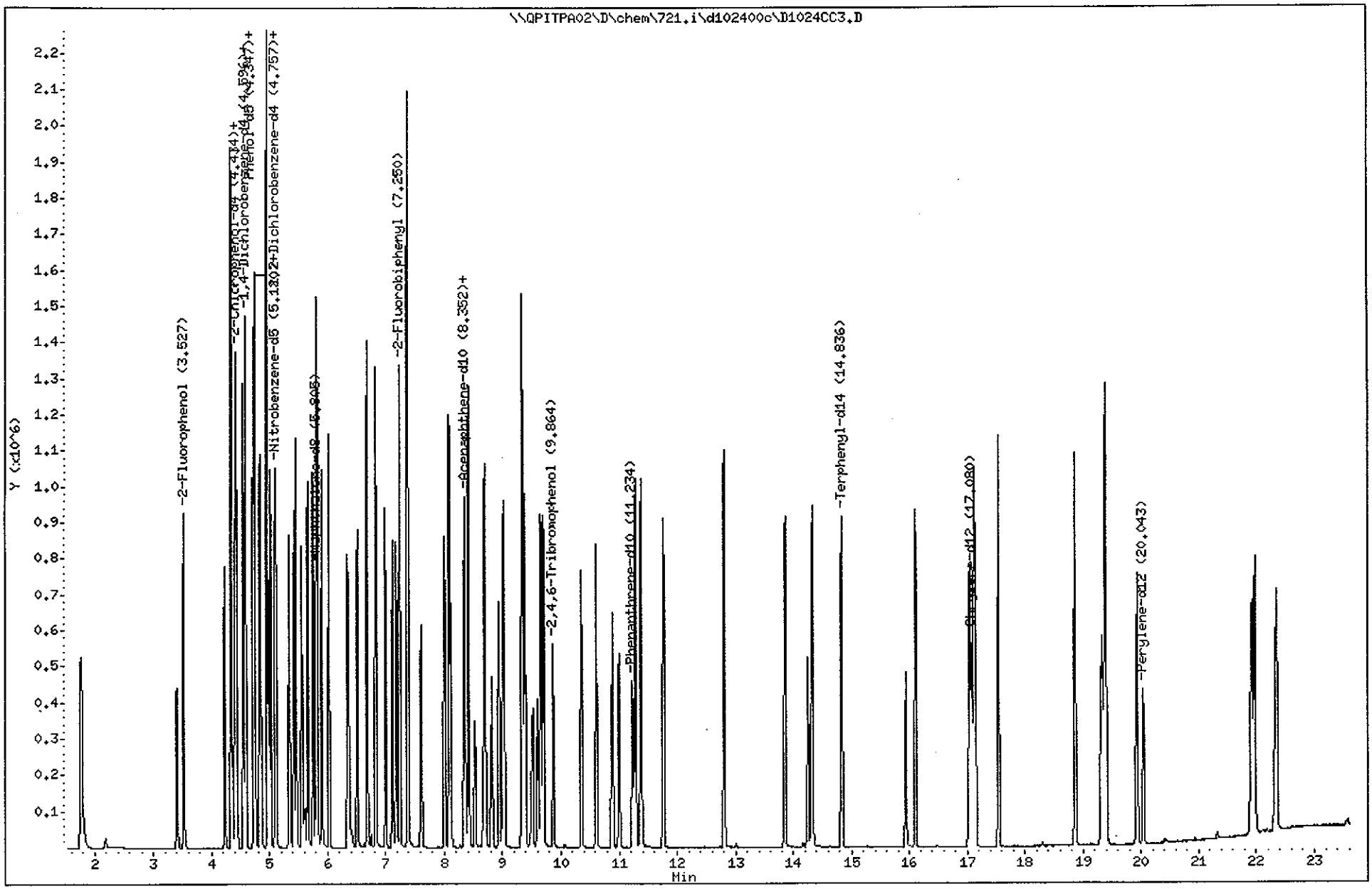
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
23	2,4-Dichlorophenol	162	5.651	5.651	(0.975)	176199	50.0000	51.559
24	1,2,4-Trichlorobenzene	180	5.752	5.752	(0.992)	185412	50.0000	51.391
25	Naphthalene	128	5.819	5.819	(1.003)	604042	50.0000	51.800
26	4-Chloroaniline	127	5.900	5.900	(1.017)	266105	50.0000	52.388
193	Caprolactam	113	6.330	6.330	(1.092)	63947	50.0000	48.196
27	Hexachlorobutadiene	225	6.021	6.021	(1.038)	108923	50.0000	51.105
28	4-Chloro-3-Methylphenol	107	6.498	6.498	(1.120)	173749	50.0000	51.319
29	2-Methylnaphthalene	142	6.673	6.673	(1.151)	363971	50.0000	51.622
30	Hexachlorocyclopentadiene	237	6.995	6.995	(0.838)	130777	50.0000	49.590
31	2,4,6-Trichlorophenol	196	7.116	7.116	(0.852)	122996	50.0000	49.473
32	2,4,5-Trichlorophenol	196	7.176	7.176	(0.859)	131635	50.0000	50.020
194	1,1'-Biphenyl	154	7.378	7.378	(0.883)	410579	50.0000	50.520
33	2-Chloronaphthalene	162	7.392	7.392	(0.885)	318132	50.0000	49.927
34	2-Nitroaniline	65	7.613	7.613	(0.912)	110041	50.0000	49.244
35	Dimethylphthalate	163	7.996	7.996	(0.957)	394882	50.0000	49.756
36	Acenaphthylene	152	8.077	8.077	(0.967)	541033	50.0000	50.502
37	2,6-Dinitrotoluene	165	8.104	8.104	(0.970)	95921	50.0000	49.329
38	3-Nitroaniline	138	8.332	8.332	(0.998)	114929	50.0000	49.521
39	Acenaphthene	153	8.406	8.406	(1.006)	328403	50.0000	50.263
40	2,4-Dinitrophenol	184	8.514	8.514	(1.019)	51943	50.0000	46.104
41	4-Nitrophenol	109	8.668	8.668	(1.038)	51427	50.0000	50.386
42	Dibenzofuran	168	8.695	8.695	(1.041)	459673	50.0000	51.211
43	2,4-Dinitrotoluene	165	8.809	8.809	(1.055)	127660	50.0000	48.960
44	Diethylphthalate	149	9.333	9.333	(1.117)	391312	50.0000	50.786
45	4-Chlorophenyl-phenylether	204	9.387	9.387	(1.124)	186980	50.0000	50.204
46	Fluorene	166	9.347	9.347	(1.119)	349416	50.0000	51.267
47	4-Nitroaniline	138	9.501	9.501	(1.138)	111459	50.0000	48.337
48	4,6-Dinitro-2-methylphenol	198	9.582	9.582	(0.853)	72224	50.0000	49.178
49	N-Nitrosodiphenylamine (1)	169	9.642	9.642	(0.859)	269752	50.0000	52.001
50	4-Bromophenyl-phenylether	248	10.355	10.355	(0.922)	110083	50.0000	50.452
51	Hexachlorobenzene	284	10.610	10.610	(0.945)	128864	50.0000	50.528
195	Atrazine	200	10.879	10.879	(0.969)	96231	50.0000	48.967
53	Pentachlorophenol	266	11.000	11.000	(0.980)	59984	50.0000	47.304
54	Phenanthrene	178	11.275	11.275	(1.004)	480538	50.0000	51.207
55	Anthracene	178	11.369	11.369	(1.013)	492779	50.0000	51.846
56	Carbazole	167	11.759	11.759	(1.047)	450307	50.0000	50.701
57	Di-n-Butylphthalate	149	12.800	12.800	(1.140)	647903	50.0000	51.587
58	Fluoranthene	202	13.855	13.855	(1.234)	515942	50.0000	51.560
59	Pyrene	202	14.326	14.326	(0.839)	505949	50.0000	49.943
60	Butylbenzylphthalate	149	16.113	16.113	(0.944)	268005	50.0000	49.814
61	3,3'-Dichlorobenzidine	252	17.107	17.107	(1.002)	185700	50.0000	51.993
62	Benzo(a)Anthracene	228	17.040	17.040	(0.998)	446999	50.0000	49.480
63	Chrysene	228	17.128	17.128	(1.003)	411835	50.0000	50.070
64	bis(2-ethylhexyl)Phthalate	149	17.544	17.544	(1.028)	374372	50.0000	50.390
65	Di-n-octylphthalate	149	18.854	18.854	(0.941)	629842	50.0000	51.679
66	Benzo(b)fluoranthene	252	19.318	19.318	(0.964)	439972	50.0000	47.129
67	Benzo(k)fluoranthene	252	19.372	19.372	(0.967)	438253	50.0000	55.732

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
68 Benzo(a)pyrene	252	19.930	19.930	(0.995)	394153	50.0000	50.527
69 Indeno(1,2,3-cd)pyrene	276	21.918	21.918	(1.094)	371028	50.0000	46.727
70 Dibenz(a,h)anthracene	278	21.965	21.965	(1.096)	395067	50.0000	49.513
71 Benzo(g,h,i)perylene	276	22.328	22.328	(1.114)	390319	50.0000	47.808
$ 72 Nitrobenzene-d5	82	5.094	5.094	(0.878)	230979	50.0000	52.908
$ 73 2-Fluorobiphenyl	172	7.244	7.244	(0.867)	398945	50.0000	51.950
$ 74 Terphenyl-d14	244	14.830	14.830	(0.869)	422158	50.0000	51.911
$ 75 Phenol-d5	99	4.334	4.334	(0.946)	259607	50.0000	53.482
$ 76 2-Fluorophenol	112	3.521	3.521	(0.768)	236488	50.0000	52.494
$ 77 2,4,6-Tribromophenol	330	9.857	9.857	(0.878)	79853	50.0000	52.886
$ 78 2-Chlorophenol-d4	132	4.422	4.422	(0.965)	223078	50.0000	53.379
$ 79 1,2-Dichlorobenzene-d4	152	4.744	4.744	(1.035)	152227	50.0000	53.801

Data File: \\QPITPA02\D\chem\721.i\d102400c\D1024CC3.D
Date : 24-OCT-2000 14:28
Client ID: SSTD080
Sample Info: SSTD080 (40ug/ml) 77-01-7 8270/clp/625

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

Column phase:



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Semivolatile REPORT CLP3.2

Data file : \\QPITPA02\D\chem\721.i\d102400c\D1024CC3.D
Lab Smp Id: sstd80 Client Smp ID: SSTD080
Inj Date : 24-OCT-2000 14:28
Operator : 001562, DLF Inst ID: 721.i
Smp Info : SSTD080 (40ug/ml) 77-01-7 8270/clp/625
Misc Info : sstd80,d102400c.b,clp.m,1-all.sub,1,3
Comment :
Method : \\QPITPA02\D\chem\721.i\d102400c\clp.m
Meth Date : 24-Oct-2000 17:46 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 13:29 Cal File: D1024CC1.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-24-00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.582	4.582	(1.000)	130745	40.0000	
* 2	Naphthalene-d8	136	5.805	5.805	(1.000)	485769	40.0000	
* 3	Acenaphthene-d10	164	8.358	8.358	(1.000)	227102	40.0000	
* 4	Phenanthrene-d10	188	11.234	11.234	(1.000)	393059	40.0000	
* 5	Chrysene-d12	240	17.080	17.080	(1.000)	339395	40.0000	
* 6	Perylene-d12	264	20.043	20.043	(1.000)	288475	40.0000	
191	Benzaldehyde	77	4.232	4.232	(0.924)	201271	80.0000	91.630
7	Phenol	94	4.353	4.353	(0.950)	384782	80.0000	76.502
8	Bis(2-chloroethyl)ether	93	4.407	4.407	(0.962)	328165	80.0000	78.936
9	2-Chlorophenol	128	4.441	4.441	(0.969)	364239	80.0000	78.548
10	1,3-Dichlorobenzene	146	4.555	4.555	(0.994)	385712	80.0000	78.520
11	1,4-Dichlorobenzene	146	4.595	4.595	(1.003)	384166	80.0000	78.904
12	1,2-Dichlorobenzene	146	4.756	4.756	(1.038)	343472	80.0000	78.448
189	Benzyl Alcohol	108	4.730	4.730	(1.032)	231768	80.0000	79.792
13	2-Methylphenol	108	4.837	4.837	(1.056)	297293	80.0000	78.259
14	2,2'-oxybis(1-Chloropropane)	45	4.857	4.857	(1.060)	423387	80.0000	78.655
192	Acetophenone	105	4.965	4.965	(1.084)	414797	80.0000	77.270
15	4-Methylphenol	108	4.965	4.965	(1.084)	272568	80.0000	76.670
16	N-Nitroso-di-n-propylamine	70	4.992	4.992	(1.089)	241054	80.0000	79.907
17	Hexachloroethane	117	5.025	5.025	(1.097)	158758	80.0000	80.598
18	Nitrobenzene	77	5.119	5.119	(0.882)	332463	80.0000	78.524
19	Isophorone	82	5.341	5.341	(0.920)	619579	80.0000	78.135
20	2-Nitrophenol	139	5.422	5.422	(0.934)	217812	80.0000	79.932
21	2,4-Dimethylphenol	107	5.455	5.455	(0.940)	307182	80.0000	78.236
22	Bis(2-chloroethoxy)methane	93	5.556	5.556	(0.957)	368293	80.0000	78.448
190	Benzoic acid	122	5.617	5.617	(0.968)	69517	80.0000	81.832

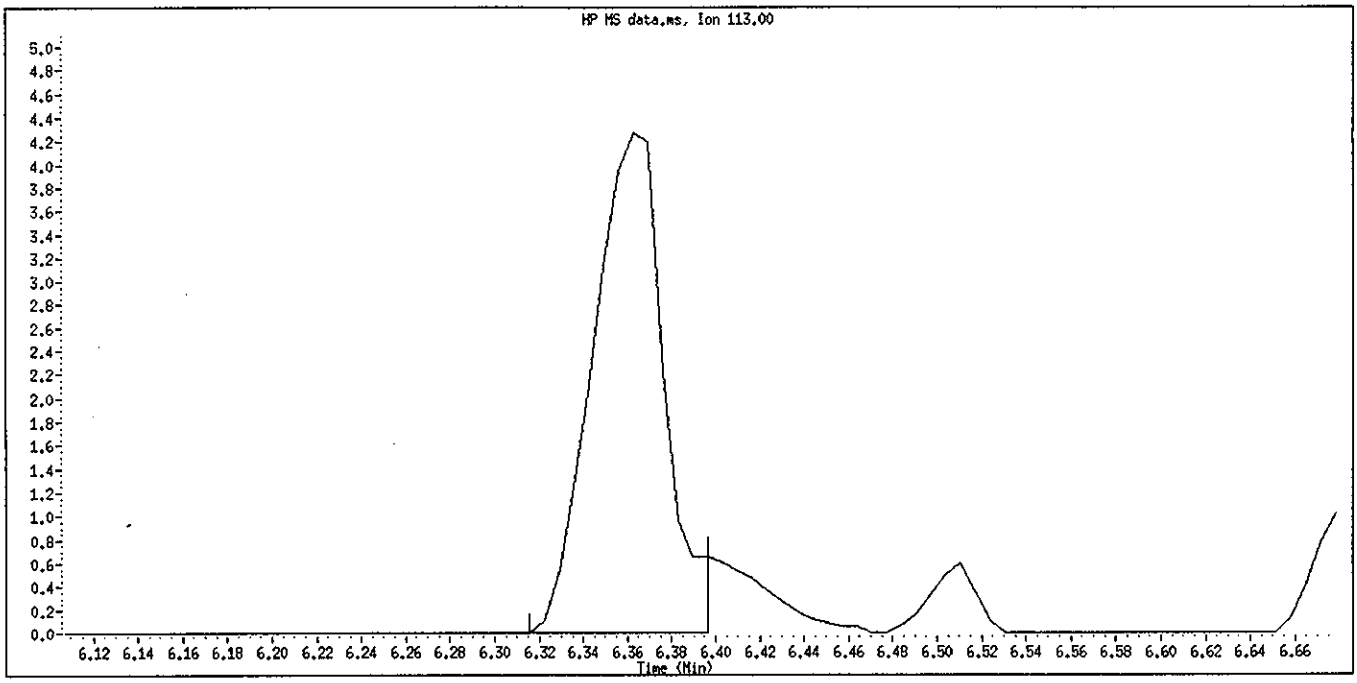
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
23	2,4-Dichlorophenol	162	5.664	5.664	(0.976)	278852	80.0000	79.233
24	1,2,4-Trichlorobenzene	180	5.751	5.751	(0.991)	296786	80.0000	79.877
25	Naphthalene	128	5.825	5.825	(1.003)	942079	80.0000	78.447
26	4-Chloroaniline	127	5.905	5.905	(1.017)	414282	80.0000	79.197
193	Caprolactam	113	6.362	6.362	(1.096)	107964	80.0000	79.014 (M)
27	Hexachlorobutadiene	225	6.026	6.026	(1.038)	177208	80.0000	80.735
28	4-Chloro-3-Methylphenol	107	6.510	6.510	(1.122)	277457	80.0000	79.576
29	2-Methylnaphthalene	142	6.678	6.678	(1.150)	570794	80.0000	78.610
30	Hexachlorocyclopentadiene	237	7.001	7.001	(0.838)	213396	80.0000	81.350
31	2,4,6-Trichlorophenol	196	7.128	7.128	(0.853)	198494	80.0000	80.267
32	2,4,5-Trichlorophenol	196	7.189	7.189	(0.860)	211648	80.0000	80.852
194	1,1'-Biphenyl	154	7.384	7.384	(0.883)	630775	80.0000	78.027
33	2-Chloronaphthalene	162	7.397	7.397	(0.885)	497925	80.0000	78.560
34	2-Nitroaniline	65	7.619	7.619	(0.912)	180778	80.0000	81.331
35	Dimethylphthalate	163	8.009	8.009	(0.958)	635490	80.0000	80.500
36	Acenaphthylene	152	8.082	8.082	(0.967)	855987	80.0000	80.326
37	2,6-Dinitrotoluene	165	8.116	8.116	(0.971)	155528	80.0000	80.410
38	3-Nitroaniline	138	8.345	8.345	(0.998)	184612	80.0000	79.970
39	Acenaphthene	153	8.418	8.418	(1.007)	515168	80.0000	79.268
40	2,4-Dinitrophenol	184	8.526	8.526	(1.020)	97268	80.0000	86.794
41	4-Nitrophenol	109	8.687	8.687	(1.039)	85015	80.0000	83.738
42	Dibenzofuran	168	8.707	8.707	(1.042)	716203	80.0000	80.215
43	2,4-Dinitrotoluene	165	8.828	8.828	(1.056)	208287	80.0000	80.308
44	Diethylphthalate	149	9.346	9.346	(1.118)	614057	80.0000	80.119
45	4-Chlorophenyl-phenylether	204	9.393	9.393	(1.124)	297160	80.0000	80.213
46	Fluorene	166	9.359	9.359	(1.120)	543352	80.0000	80.146
47	4-Nitroaniline	138	9.520	9.520	(1.139)	183386	80.0000	79.954
48	4,6-Dinitro-2-methylphenol	198	9.601	9.601	(0.855)	129900	80.0000	86.061
49	N-Nitrosodiphenylamine (1)	169	9.655	9.655	(0.859)	413793	80.0000	77.612
50	4-Bromophenyl-phenylether	248	10.360	10.360	(0.922)	178366	80.0000	79.538
51	Hexachlorobenzene	284	10.616	10.616	(0.945)	210608	80.0000	80.349
195	Atrazine	200	10.898	10.898	(0.970)	160109	80.0000	79.270
53	Pentachlorophenol	266	11.005	11.005	(0.980)	113937	80.0000	87.424
54	Phenanthrene	178	11.288	11.288	(1.005)	762409	80.0000	79.048
55	Anthracene	178	11.382	11.382	(1.013)	765269	80.0000	78.340
56	Carbazole	167	11.771	11.771	(1.048)	721074	80.0000	78.993
57	Di-n-Butylphthalate	149	12.813	12.813	(1.141)	1029197	80.0000	79.732
58	Fluoranthene	202	13.868	13.868	(1.234)	813054	80.0000	79.056
59	Pyrene	202	14.338	14.338	(0.839)	804765	80.0000	78.946
60	Butylbenzylphthalate	149	16.119	16.119	(0.944)	430136	80.0000	79.453
61	3,3'-Dichlorobenzidine	252	17.120	17.120	(1.002)	292723	80.0000	81.449
62	Benzo(a)Anthracene	228	17.046	17.046	(0.998)	718296	80.0000	79.018
63	Chrysene	228	17.147	17.147	(1.004)	654454	80.0000	79.074
64	bis(2-ethylhexyl)Phthalate	149	17.543	17.543	(1.027)	590485	80.0000	78.984
65	Di-n-octylphthalate	149	18.867	18.867	(0.941)	1011828	80.0000	81.387
66	Benzo(b)fluoranthene	252	19.337	19.337	(0.965)	722356	80.0000	75.854
67	Benzo(k)fluoranthene	252	19.391	19.391	(0.967)	688624	80.0000	85.848

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
68 Benzo(a)pyrene	252	19.942	19.942	(0.995)	634368	80.0000	79.720
69 Indeno(1,2,3-cd)pyrene	276	21.931	21.931	(1.094)	624530	80.0000	77.105
70 Dibenz(a,h)anthracene	278	21.985	21.985	(1.097)	646219	80.0000	79.395
71 Benzo(g,h,i)perylene	276	22.347	22.347	(1.115)	654505	80.0000	78.590
$ 72 Nitrobenzene-d5	82	5.099	5.099	(0.878)	355883	80.0000	79.157
$ 73 2-Fluorobiphenyl	172	7.249	7.249	(0.867)	603986	80.0000	79.069
$ 74 Terphenyl-d14	244	14.842	14.842	(0.869)	649817	80.0000	79.409
$ 75 Phenol-d5	99	4.340	4.340	(0.947)	385531	80.0000	77.507
$ 76 2-Fluorophenol	112	3.527	3.527	(0.770)	362967	80.0000	78.624
$ 77 2,4,6-Tribromophenol	330	9.870	9.870	(0.879)	126712	80.0000	81.652
$ 78 2-Chlorophenol-d4	132	4.427	4.427	(0.966)	334875	80.0000	78.196
$ 79 1,2-Dichlorobenzene-d4	152	4.743	4.743	(1.035)	227996	80.0000	78.634

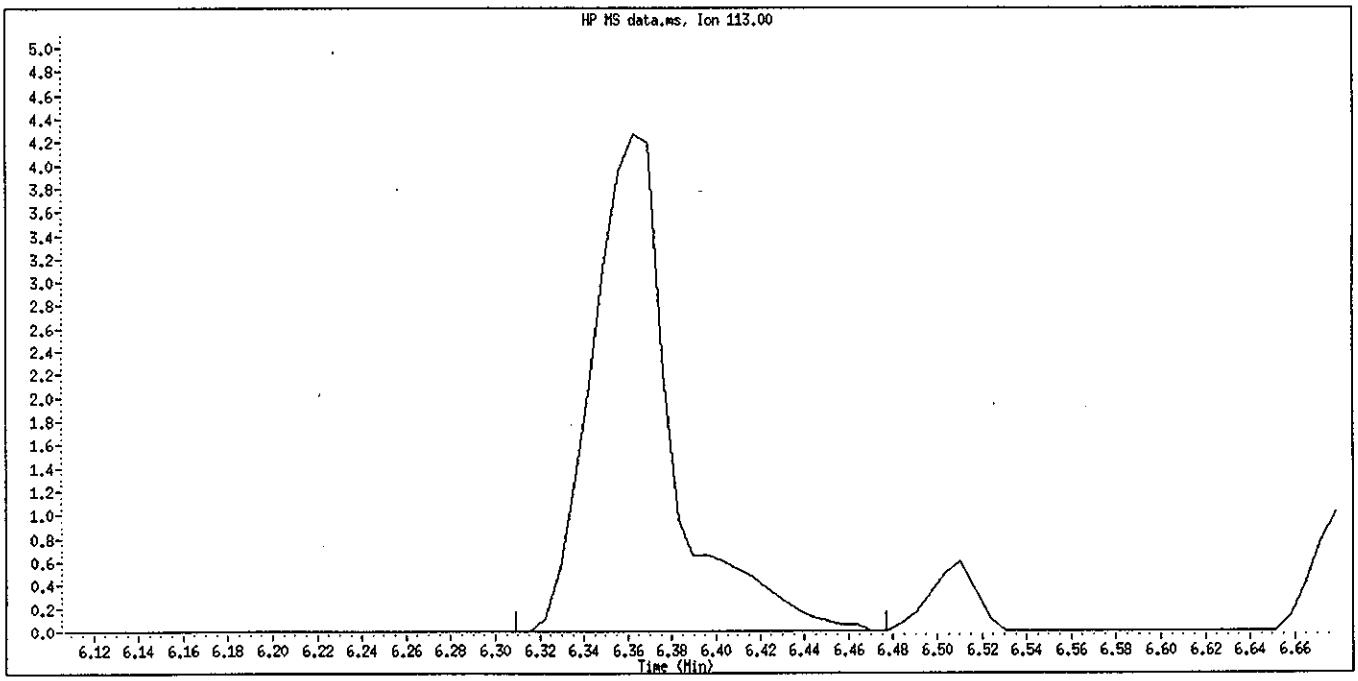
QC Flag Legend

M - Compound response manually integrated.

Data File Name: D1024CC3:D
Inj. Date and Time: 24-OCT-2000 14:28
Instrument ID: 721.i
Client ID: SSTD080
Compound Name: Caprolactam
CAS #: 105-60-2
Report Date: 10/24/2000



Original Integration



Manual Integration

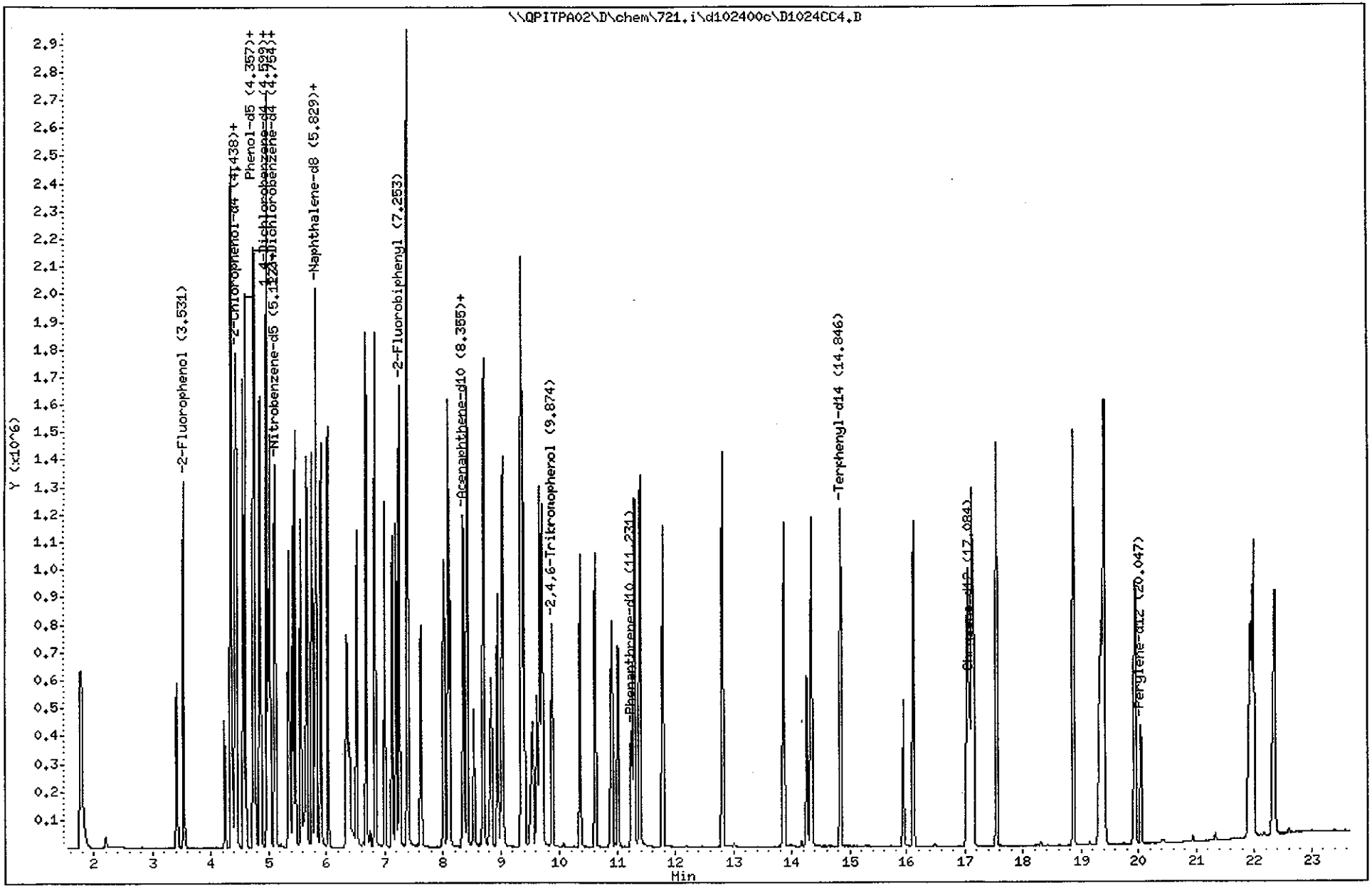
Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File: \\QPITPA02\D\chem\721.i\d102400c\D1024CC4.D
Date : 24-OCT-2000 15:27
Client ID: SSTD120
Sample Info: SSTD120 (60ug/ml) 77-01-8 8270/clp/625

Instrument: 721.i

Operator: 001562, DLF
Column diameter: 0.25

Column phase:



STL-Pittsburgh

Semivolatile REPORT CLP3.2

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Inj Date : 24-OCT-2000 15:27
Operator : 001562, DLF Inst ID: 721.i
Smp Info : SSTD120 (60ug/ml) 77-01-8 8270/clp/625
Misc Info : sstd120,d102400c.b,clp.m,1-all.sub,1,4
Comment :
Method : \\QPITPA02\D\chem\721.i\d102400c\clp.m
Meth Date : 24-Oct-2000 17:48 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 13:29 Cal File: D1024CC1.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-24-00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.585	4.585	(1.000)	126281	40.0000	
* 2 Naphthalene-d8	136	5.802	5.802	(1.000)	472911	40.0000	
* 3 Acenaphthene-d10	164	8.355	8.355	(1.000)	218254	40.0000	
* 4 Phenanthrene-d10	188	11.231	11.231	(1.000)	380791	40.0000	
* 5 Chrysene-d12	240	17.083	17.083	(1.000)	314999	40.0000	
* 6 Perylene-d12	264	20.046	20.046	(1.000)	277401	40.0000	
191 Benzaldehyde	77	4.236	4.236	(0.924)	141910	120.000	66.889
7 Phenol	94	4.357	4.357	(0.950)	540407	120.000	111.24
8 Bis(2-chloroethyl)ether	93	4.417	4.417	(0.963)	458161	120.000	114.10(M)
9 2-Chlorophenol	128	4.444	4.444	(0.969)	519272	120.000	115.94
10 1,3-Dichlorobenzene	146	4.559	4.559	(0.994)	554123	120.000	116.79
11 1,4-Dichlorobenzene	146	4.599	4.599	(1.003)	543722	120.000	115.62
12 1,2-Dichlorobenzene	146	4.760	4.760	(1.038)	480149	120.000	113.54
189 Benzyl Alcohol	108	4.733	4.733	(1.032)	326083	120.000	116.23
13 2-Methylphenol	108	4.841	4.841	(1.056)	424282	120.000	115.64
14 2,2'-oxybis(1-Chloropropane)	45	4.861	4.861	(1.060)	578103	120.000	111.19
192 Acetophenone	105	4.975	4.975	(1.085)	589297	120.000	113.66
15 4-Methylphenol	108	4.975	4.975	(1.085)	379812	120.000	110.61
16 N-Nitroso-di-n-propylamine	70	5.002	5.002	(1.091)	344866	120.000	118.36
17 Hexachloroethane	117	5.029	5.029	(1.097)	221051	120.000	116.19
18 Nitrobenzene	77	5.123	5.123	(0.883)	475223	120.000	115.29
19 Isophorone	82	5.351	5.351	(0.922)	908916	120.000	117.74
20 2-Nitrophenol	139	5.425	5.425	(0.935)	318951	120.000	120.23
21 2,4-Dimethylphenol	107	5.466	5.466	(0.942)	450146	120.000	117.76
22 Bis(2-chloroethoxy)methane	93	5.566	5.566	(0.959)	529905	120.000	115.94
190 Benzoic acid	122	5.647	5.647	(0.973)	122715	120.000	148.38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
23	2,4-Dichlorophenol	162	5.667	5.667	(0.977)	402236	120.000	117.40
24	1,2,4-Trichlorobenzene	180	5.755	5.755	(0.992)	424855	120.000	117.46
25	Naphthalene	128	5.828	5.828	(1.005)	1325904	120.000	113.41
26	4-Chloroaniline	127	5.909	5.909	(1.019)	593037	120.000	116.45
193	Caprolactam	113	6.400	6.400	(1.103)	162733	120.000	122.34 (M)
27	Hexachlorobutadiene	225	6.030	6.030	(1.039)	254061	120.000	118.90
28	4-Chloro-3-Methylphenol	107	6.521	6.521	(1.124)	392189	120.000	115.54
29	2-Methylnaphthalene	142	6.682	6.682	(1.152)	805152	120.000	113.90
30	Hexachlorocyclopentadiene	237	7.004	7.004	(0.838)	305784	120.000	121.30
31	2,4,6-Trichlorophenol	196	7.132	7.132	(0.854)	285069	120.000	119.95
32	2,4,5-Trichlorophenol	196	7.199	7.199	(0.862)	304242	120.000	120.94
194	1,1'-Biphenyl	154	7.394	7.394	(0.885)	885689	120.000	114.00
33	2-Chloronaphthalene	162	7.407	7.407	(0.887)	717727	120.000	117.83
34	2-Nitroaniline	65	7.629	7.629	(0.913)	258607	120.000	121.06
35	Dimethylphthalate	163	8.019	8.019	(0.960)	908474	120.000	119.74
36	Acenaphthylene	152	8.093	8.093	(0.969)	1196596	120.000	116.84
37	2,6-Dinitrotoluene	165	8.126	8.126	(0.973)	225452	120.000	121.29
38	3-Nitroaniline	138	8.362	8.362	(1.001)	268463	120.000	121.01
39	Acenaphthene	153	8.422	8.422	(1.008)	734343	120.000	117.57
40	2,4-Dinitrophenol	184	8.536	8.536	(1.022)	155416	120.000	144.30
41	4-Nitrophenol	109	8.704	8.704	(1.042)	119885	120.000	122.87
42	Dibenzofuran	168	8.711	8.711	(1.043)	990528	120.000	115.44
43	2,4-Dinitrotoluene	165	8.845	8.845	(1.059)	308633	120.000	123.82
44	Diethylphthalate	149	9.356	9.356	(1.120)	861524	120.000	116.96
45	4-Chlorophenyl-phenylether	204	9.403	9.403	(1.125)	427579	120.000	120.10
46	Fluorene	166	9.363	9.363	(1.121)	748735	120.000	114.92
47	4-Nitroaniline	138	9.544	9.544	(1.142)	273500	120.000	124.08
48	4,6-Dinitro-2-methylphenol	198	9.618	9.618	(0.856)	196591	120.000	134.44
49	N-Nitrosodiphenylamine (1)	169	9.672	9.672	(0.861)	605176	120.000	117.16
50	4-Bromophenyl-phenylether	248	10.364	10.364	(0.923)	258078	120.000	118.79
51	Hexachlorobenzene	284	10.626	10.626	(0.946)	298875	120.000	117.70
195	Atrazine	200	10.915	10.915	(0.972)	231457	120.000	118.29
53	Pentachlorophenol	266	11.016	11.016	(0.981)	177558	120.000	140.63
54	Phenanthrene	178	11.298	11.298	(1.006)	1084771	120.000	116.10
55	Anthracene	178	11.392	11.392	(1.014)	1082161	120.000	114.35
56	Carbazole	167	11.782	11.782	(1.049)	1030326	120.000	116.51
57	Di-n-Butylphthalate	149	12.816	12.816	(1.141)	1448480	120.000	115.83
58	Fluoranthene	202	13.871	13.871	(1.235)	1157222	120.000	116.15
59	Pyrene	202	14.348	14.348	(0.840)	1124781	120.000	118.88
60	Butylbenzylphthalate	149	16.129	16.129	(0.944)	609381	120.000	121.28
61	3,3'-Dichlorobenzidine	252	17.123	17.123	(1.002)	397001	120.000	119.02
62	Benzo(a)Anthracene	228	17.050	17.050	(0.998)	1017266	120.000	120.57
63	Chrysene	228	17.157	17.157	(1.004)	909793	120.000	118.44
64	bis(2-ethylhexyl)Phthalate	149	17.547	17.547	(1.027)	832010	120.000	119.91
65	Di-n-octylphthalate	149	18.870	18.870	(0.941)	1413866	120.000	118.26
66	Benzo(b)fluoranthene	252	19.361	19.361	(0.966)	1211976	120.000	132.35
67	Benzo(k)fluoranthene	252	19.408	19.408	(0.968)	804252	120.000	104.26 (M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
68	Benzo(a)pyrene	252	19.952	19.952	(0.995)	920282	120.000	120.27
69	Indeno(1,2,3-cd)pyrene	276	21.941	21.941	(1.095)	969729	120.000	124.50
70	Dibenz(a,h)anthracene	278	21.995	21.995	(1.097)	969754	120.000	123.90
71	Benzo(g,h,i)perylene	276	22.364	22.364	(1.116)	1002820	120.000	125.22
$ 72	Nitrobenzene-d5	82	5.110	5.110	(0.881)	503341	120.000	115.00
$ 73	2-Fluorobiphenyl	172	7.253	7.253	(0.868)	860579	120.000	117.23
$ 74	Terphenyl-d14	244	14.846	14.846	(0.869)	898052	120.000	118.24
$ 75	Phenol-d5	99	4.350	4.350	(0.949)	543119	120.000	113.05
$ 76	2-Fluorophenol	112	3.530	3.530	(0.770)	524769	120.000	117.69
$ 77	2,4,6-Tribromophenol	330	9.873	9.873	(0.879)	180534	120.000	120.08
$ 78	2-Chlorophenol-d4	132	4.431	4.431	(0.966)	473271	120.000	114.42
$ 79	1,2-Dichlorobenzene-d4	152	4.747	4.747	(1.035)	311318	120.000	111.17

QC Flag Legend

M - Compound response manually integrated.

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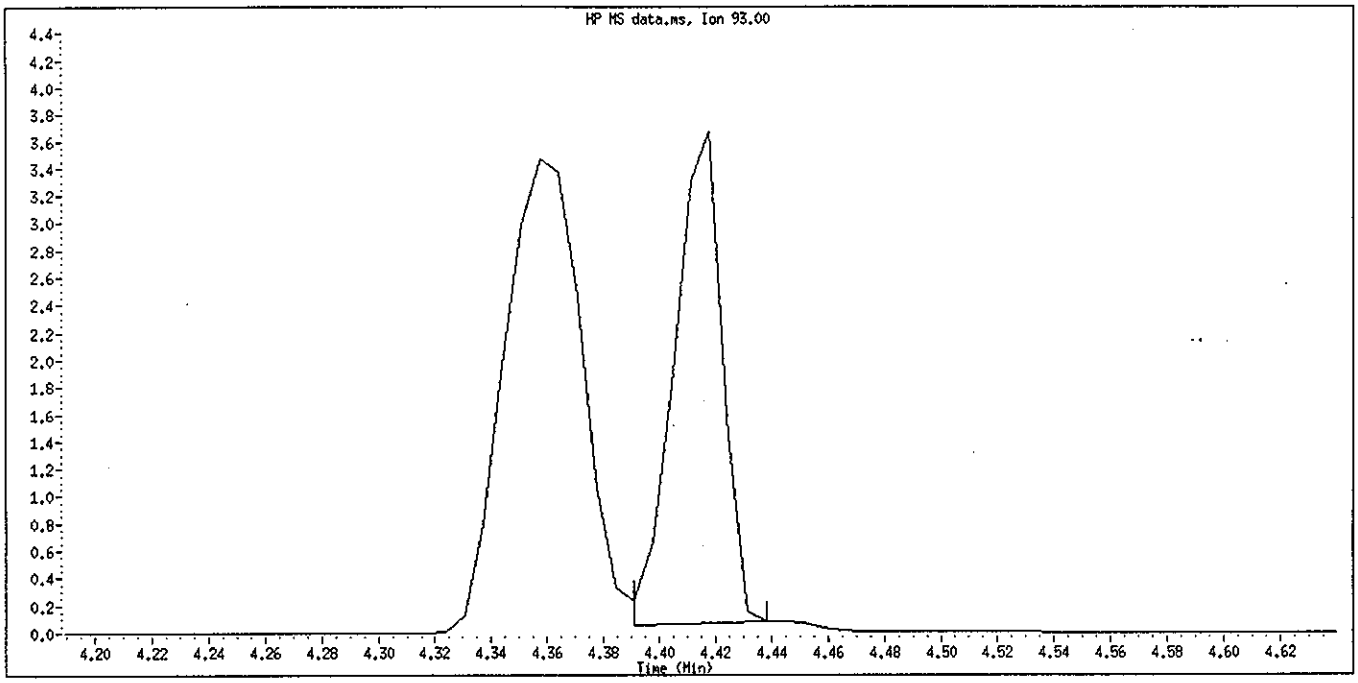
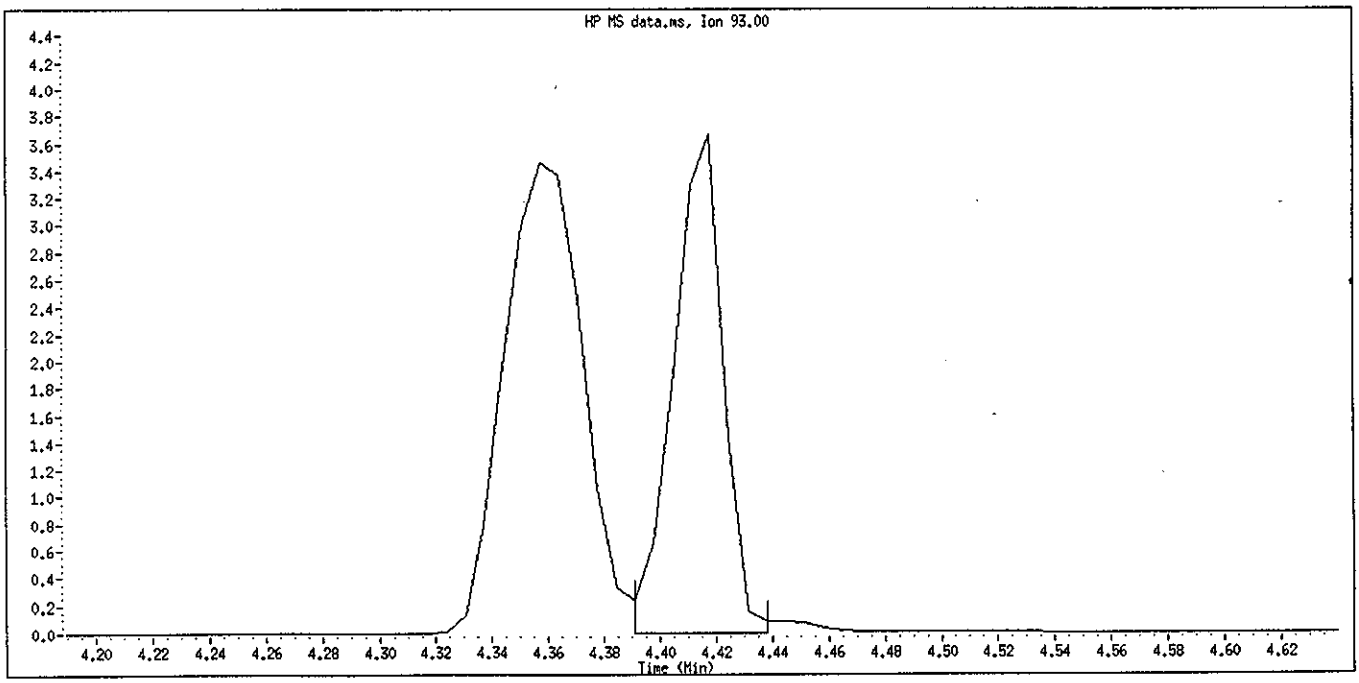
CAS #: 111-44-4
Report Date: 10/24/2000



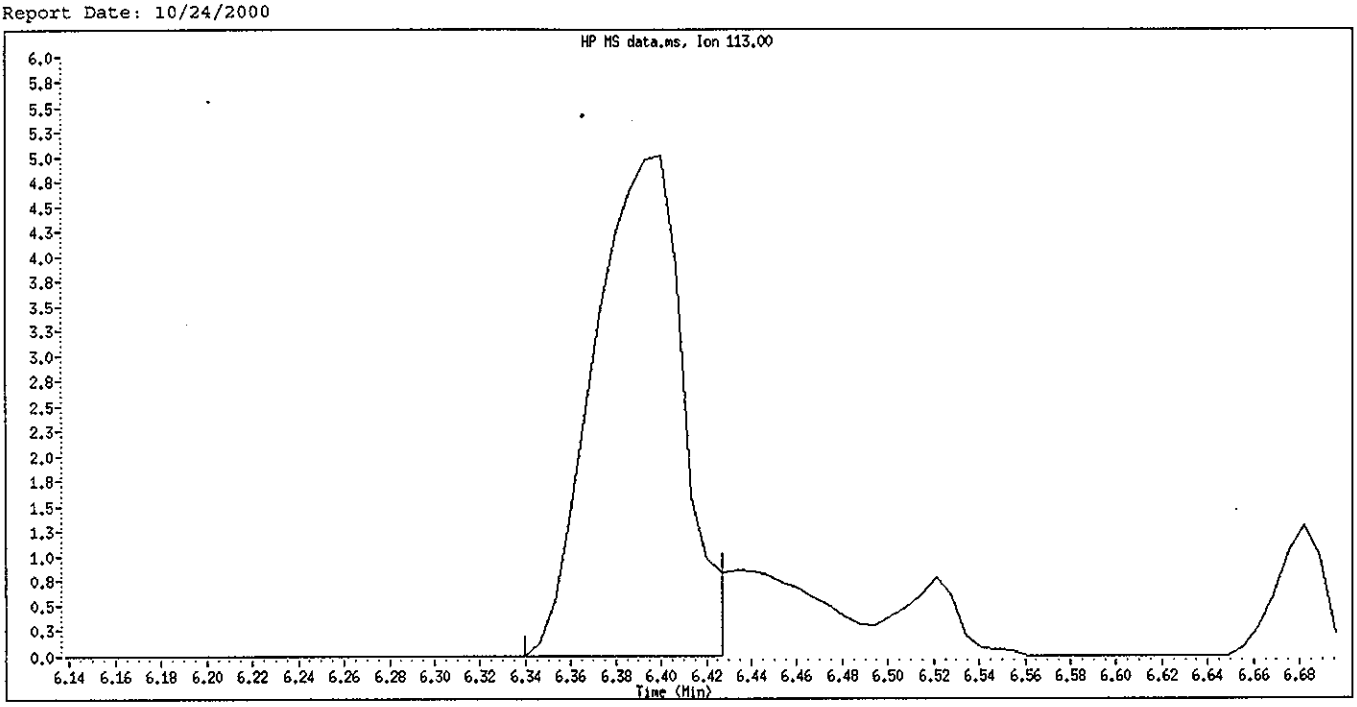
Original Integration



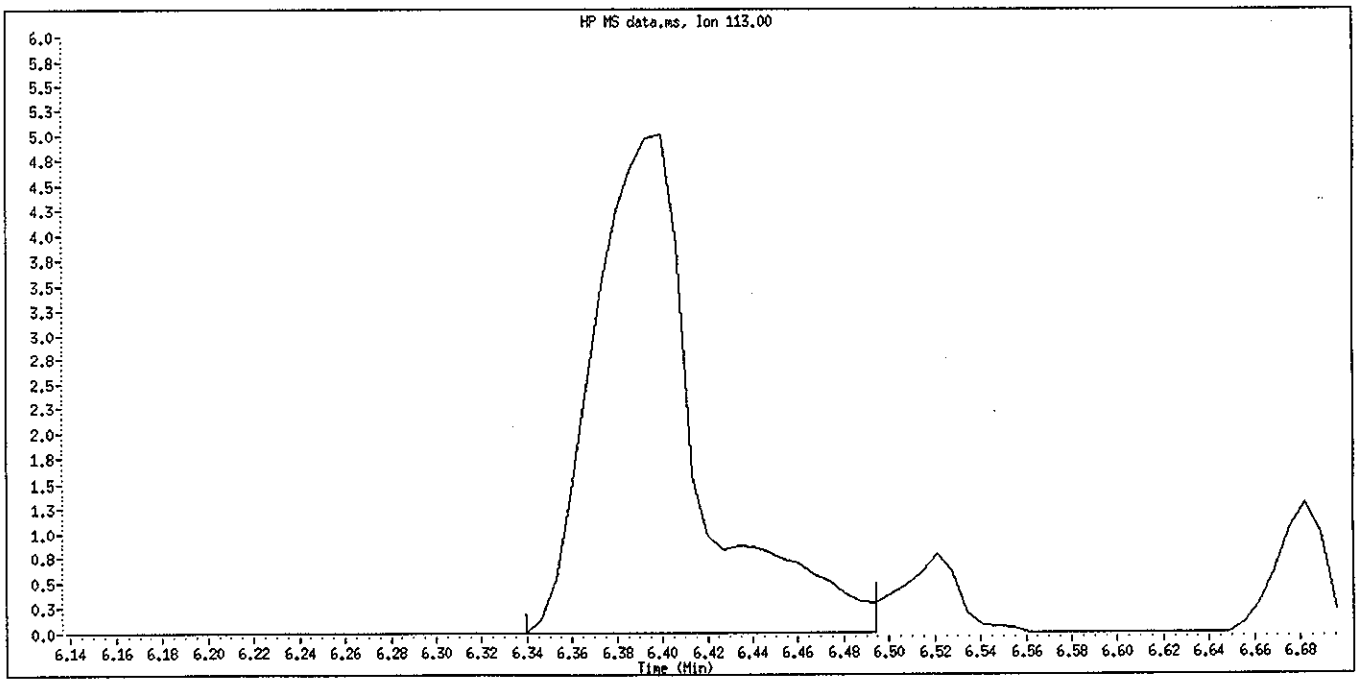
Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name: D1024CC4.D
Inj. Date and Time: 24-OCT-2000 15:27
Instrument ID: 721.i
Client ID: SSTD120
Compound Name: Caprolactam
CAS #: 105-60-2
Report Date: 10/24/2000



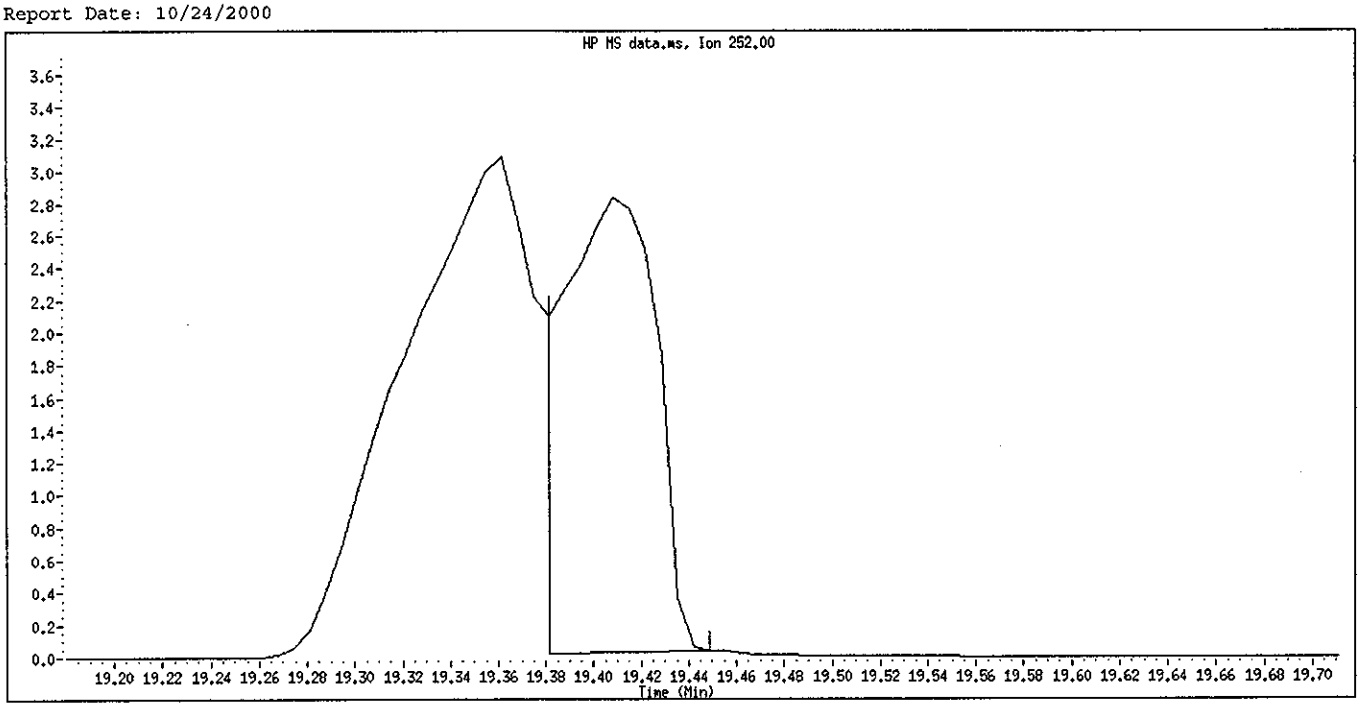
Original Integration



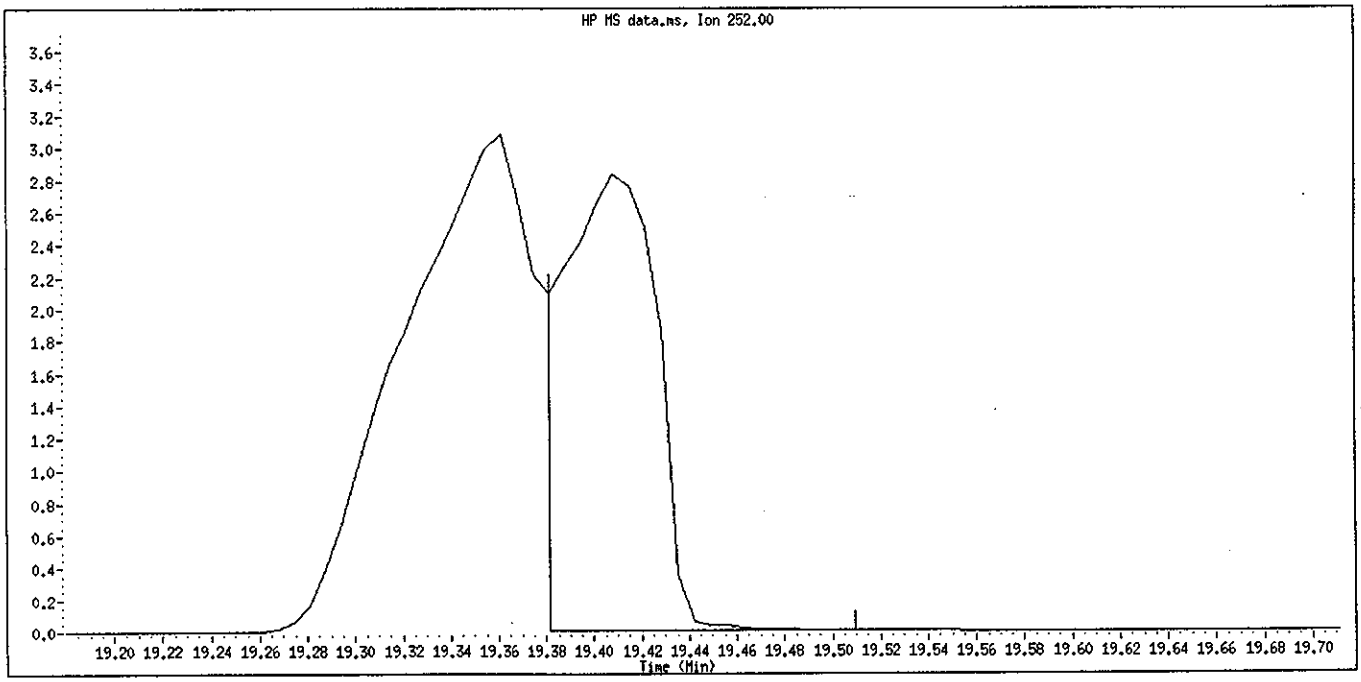
Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name: D1024CC4.D
Inj. Date and Time: 24-OCT-2000 15:27
Instrument ID: 721.i
Client ID: SSTD120
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 10/24/2000



Original Integration



Manual Integration

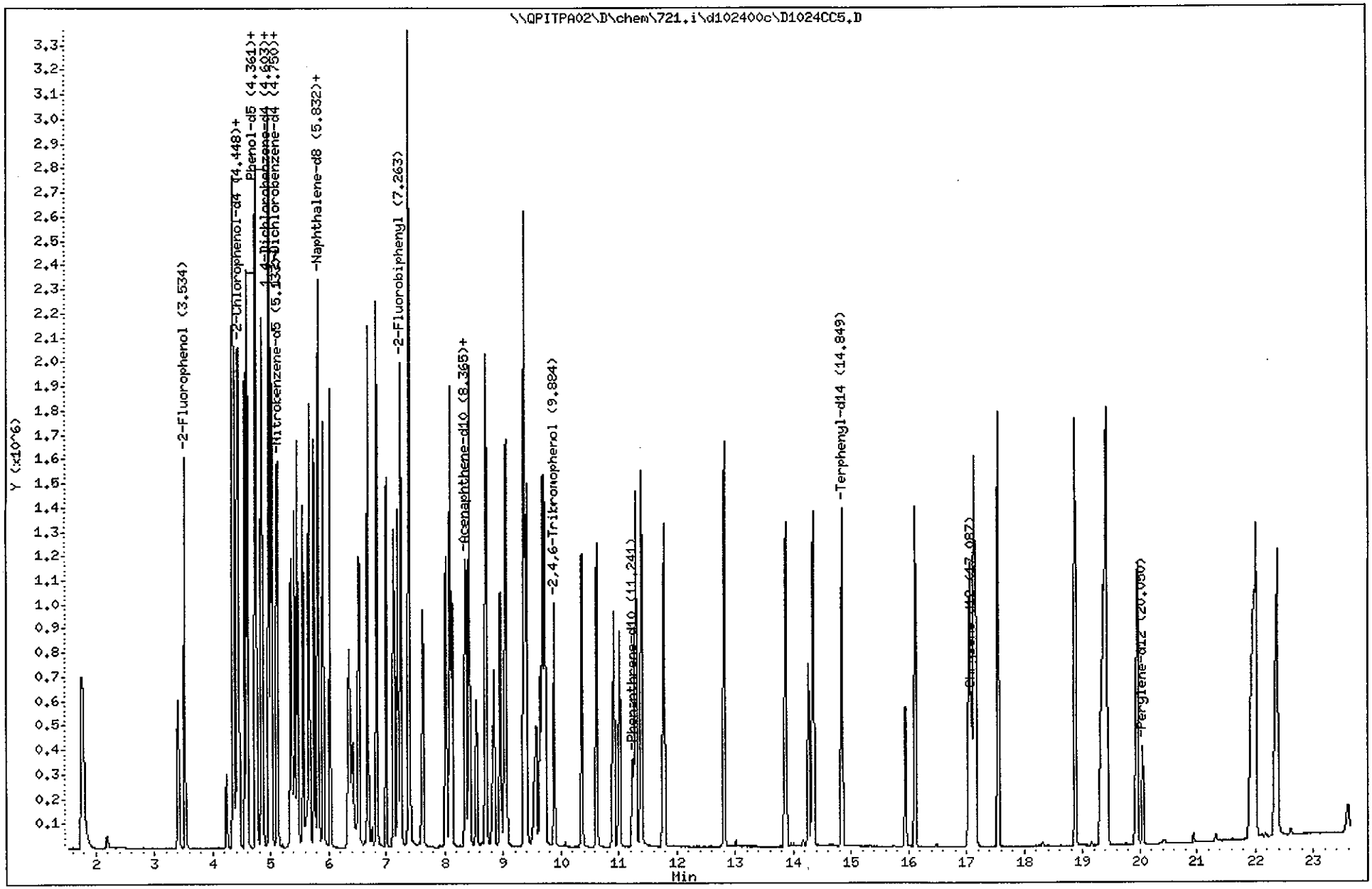
Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File: \\QPITPA02\D\chem\721.i\d102400c\D1024CC5.D
Date : 24-OCT-2000 15:57
Client ID: SSTD160
Sample Info: SSTD160 (80ug/ml) 77-01-9 8270/clp/625

Instrument: 721.i

Operator: 001562, DLF
Column diameter: 0.25

Column phase:



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Semivolatile REPORT CLP3.2

Data file : \\QPITPA02\D\chem\721.i\d102400c\D1024CC5.D
Lab Smp Id: sstd160 Client Smp ID: SSTD160
Inj Date : 24-OCT-2000 15:57
Operator : 001562, DLF Inst ID: 721.i
Smp Info : SSTD160 (80ug/ml) 77-01-9 8270/clp/625
Misc Info : sstd160,d102400c.b,clp.m,1-all.sub,1,5
Comment :
Method : \\QPITPA02\D\chem\721.i\d102400c\clp.m
Meth Date : 24-Oct-2000 17:50 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 15:57 Cal File: D1024CC5.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-24-00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.589	4.589	(1.000)	123012	40.0000	
* 2 Naphthalene-d8	136	5.805	5.805	(1.000)	461753	40.0000	
* 3 Acenaphthene-d10	164	8.358	8.358	(1.000)	209810	40.0000	
* 4 Phenanthrene-d10	188	11.241	11.241	(1.000)	361405	40.0000	
* 5 Chrysene-d12	240	17.086	17.086	(1.000)	302524	40.0000	
* 6 Perylene-d12	264	20.056	20.056	(1.000)	274472	40.0000	
191 Benzaldehyde	77	4.232	4.232	(0.922)	100396	160.000	48.579
7 Phenol	94	4.367	4.367	(0.952)	669257	160.000	141.42
8 Bis(2-chloroethyl)ether	93	4.421	4.421	(0.963)	571988	160.000	146.23(M)
9 2-Chlorophenol	128	4.454	4.454	(0.971)	649419	160.000	148.85
10 1,3-Dichlorobenzene	146	4.562	4.562	(0.994)	699402	160.000	151.33
11 1,4-Dichlorobenzene	146	4.602	4.602	(1.003)	679276	160.000	148.29
12 1,2-Dichlorobenzene	146	4.763	4.763	(1.038)	598487	160.000	145.29
189 Benzyl Alcohol	108	4.736	4.736	(1.032)	396651	160.000	145.14
13 2-Methylphenol	108	4.844	4.844	(1.056)	527332	160.000	147.54
14 2,2'-oxybis(1-Chloropropane)	45	4.864	4.864	(1.060)	702410	160.000	138.69
192 Acetophenone	105	4.978	4.978	(1.085)	733904	160.000	145.31
15 4-Methylphenol	108	4.978	4.978	(1.085)	473857	160.000	141.67
16 N-Nitroso-di-n-propylamine	70	5.019	5.019	(1.094)	412843	160.000	145.46
17 Hexachloroethane	117	5.032	5.032	(1.097)	264081	160.000	142.50
18 Nitrobenzene	77	5.133	5.133	(0.884)	594535	160.000	147.72
19 Isophorone	82	5.361	5.361	(0.924)	1182553	160.000	156.89
20 2-Nitrophenol	139	5.429	5.429	(0.935)	394270	160.000	152.21
21 2,4-Dimethylphenol	107	5.469	5.469	(0.942)	571038	160.000	153.00
22 Bis(2-chloroethoxy)methane	93	5.570	5.570	(0.959)	666037	160.000	149.25
190 Benzoic acid	122	5.670	5.670	(0.977)	183319	160.000	227.02(A)

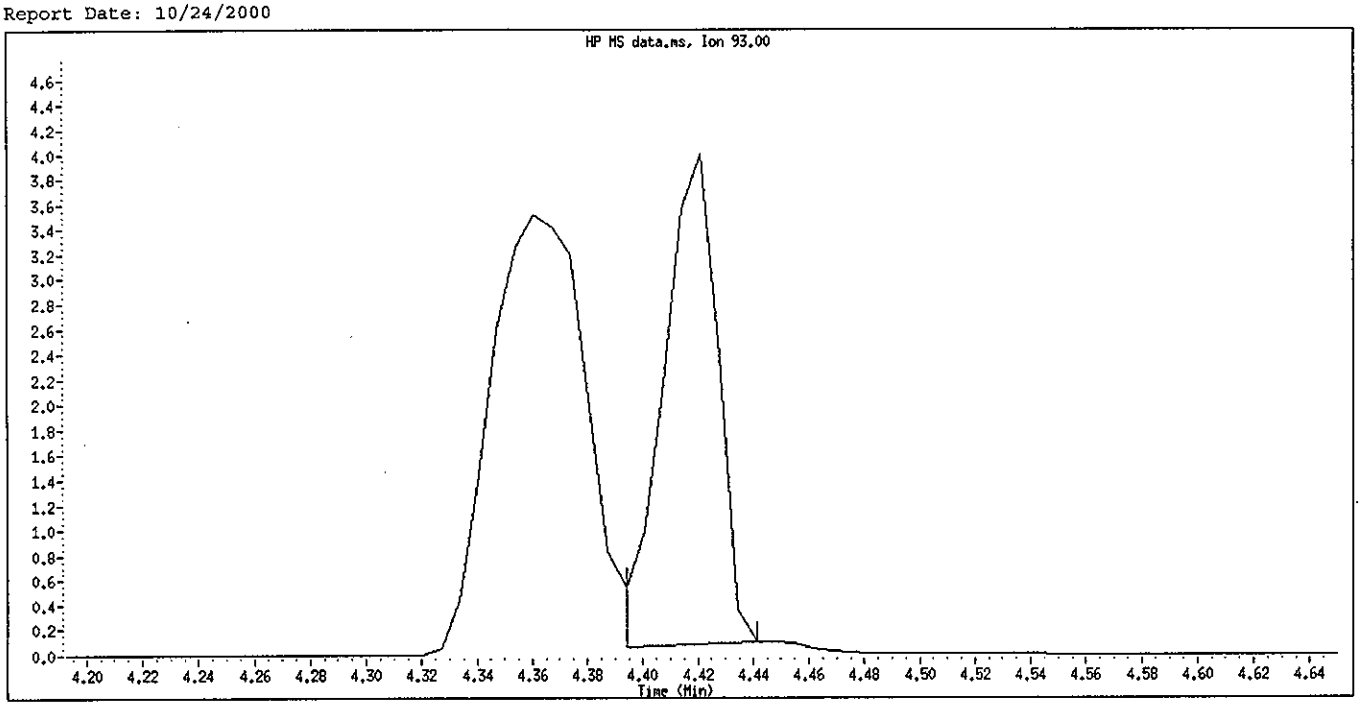
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
23	2,4-Dichlorophenol	162	5.677	5.677	(0.978)	501608	160.000	149.94
24	1,2,4-Trichlorobenzene	180	5.758	5.758	(0.992)	532382	160.000	150.74
25	Naphthalene	128	5.832	5.832	(1.005)	1652580	160.000	144.77
26	4-Chloroaniline	127	5.912	5.912	(1.019)	718409	160.000	144.48
193	Caprolactam	113	6.423	6.423	(1.106)	200251	160.000	154.18(M)
27	Hexachlorobutadiene	225	6.027	6.027	(1.038)	315293	160.000	151.12
28	4-Chloro-3-Methylphenol	107	6.530	6.530	(1.125)	502552	160.000	151.63
29	2-Methylnaphthalene	142	6.685	6.685	(1.152)	1003925	160.000	145.45
30	Hexachlorocyclopentadiene	237	7.008	7.008	(0.838)	385323	160.000	159.00
31	2,4,6-Trichlorophenol	196	7.142	7.142	(0.855)	367983	160.000	161.07(A)
32	2,4,5-Trichlorophenol	196	7.209	7.209	(0.863)	373763	160.000	154.55
194	1,1'-Biphenyl	154	7.404	7.404	(0.886)	1114318	160.000	149.20
33	2-Chloronaphthalene	162	7.411	7.411	(0.887)	895245	160.000	152.89
34	2-Nitroaniline	65	7.639	7.639	(0.914)	325360	160.000	158.44
35	Dimethylphthalate	163	8.022	8.022	(0.960)	1145838	160.000	157.11
36	Acenaphthylene	152	8.096	8.096	(0.969)	1494402	160.000	151.79
37	2,6-Dinitrotoluene	165	8.130	8.130	(0.973)	284343	160.000	159.12
38	3-Nitroaniline	138	8.372	8.372	(1.002)	340332	160.000	159.57
39	Acenaphthene	153	8.432	8.432	(1.009)	918865	160.000	153.04
40	2,4-Dinitrophenol	184	8.553	8.553	(1.023)	208408	160.000	201.29(A)
41	4-Nitrophenol	109	8.728	8.728	(1.044)	149714	160.000	159.62
42	Dibenzofuran	168	8.721	8.721	(1.043)	1246752	160.000	151.14
43	2,4-Dinitrotoluene	165	8.855	8.855	(1.059)	387687	160.000	161.80(A)
44	Diethylphthalate	149	9.366	9.366	(1.121)	1070408	160.000	151.17
45	4-Chlorophenyl-phenylether	204	9.406	9.406	(1.125)	520535	160.000	152.09
46	Fluorene	166	9.373	9.373	(1.121)	925274	160.000	147.73
47	4-Nitroaniline	138	9.574	9.574	(1.145)	346458	160.000	163.50(A)
48	4,6-Dinitro-2-methylphenol	198	9.641	9.641	(0.858)	256014	160.000	184.47(A)
49	N-Nitrosodiphenylamine (1)	169	9.682	9.682	(0.861)	732449	160.000	149.41
50	4-Bromophenyl-phenylether	248	10.374	10.374	(0.923)	322574	160.000	156.44
51	Hexachlorobenzene	284	10.629	10.629	(0.946)	379112	160.000	157.30
195	Atrazine	200	10.925	10.925	(0.972)	289133	160.000	155.69
53	Pentachlorophenol	266	11.019	11.019	(0.980)	234828	160.000	195.96(A)
54	Phenanthrene	178	11.301	11.301	(1.005)	1350449	160.000	152.28
55	Anthracene	178	11.402	11.402	(1.014)	1345835	160.000	149.84
56	Carbazole	167	11.792	11.792	(1.049)	1292810	160.000	154.03
57	Di-n-Butylphthalate	149	12.820	12.820	(1.140)	1779439	160.000	149.93
58	Fluoranthene	202	13.881	13.881	(1.235)	1433343	160.000	151.58
59	Pyrene	202	14.358	14.358	(0.840)	1408950	160.000	155.06
60	Butylbenzylphthalate	149	16.132	16.132	(0.944)	760548	160.000	157.61
61	3,3'-Dichlorobenzidine	252	17.133	17.133	(1.003)	487379	160.000	152.14
62	Benzo(a)Anthracene	228	17.059	17.059	(0.998)	1277430	160.000	157.65
63	Chrysene	228	17.167	17.167	(1.005)	1138550	160.000	154.33
64	bis(2-ethylhexyl)Phthalate	149	17.557	17.557	(1.028)	1047941	160.000	157.26
65	Di-n-octylphthalate	149	18.880	18.880	(0.941)	1760038	160.000	148.79
66	Benzo(b)fluoranthene	252	19.378	19.378	(0.966)	1576192	160.000	173.96(A)
67	Benzo(k)fluoranthene	252	19.431	19.431	(0.969)	978592	160.000	128.22(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
68 Benzo(a)pyrene	252	19.969	19.969	(0.996)	1179990	160.000	155.85
69 Indeno(1,2,3-cd)pyrene	276	21.958	21.958	(1.095)	1421070	160.000	184.40(A)
70 Dibenz(a,h)anthracene	278	22.012	22.012	(1.097)	1285517	160.000	166.00(A)
71 Benzo(g,h,i)perylene	276	22.381	22.381	(1.116)	1367528	160.000	172.58(A)
$ 72 Nitrobenzene-d5	82	5.113	5.113	(0.881)	634865	160.000	148.55
$ 73 2-Fluorobiphenyl	172	7.263	7.263	(0.869)	1066054	160.000	151.06
$ 74 Terphenyl-d14	244	14.849	14.849	(0.869)	1120799	160.000	153.66
$ 75 Phenol-d5	99	4.353	4.353	(0.949)	662737	160.000	141.61
$ 76 2-Fluorophenol	112	3.534	3.534	(0.770)	660256	160.000	152.01
$ 77 2,4,6-Tribromophenol	330	9.883	9.883	(0.879)	222646	160.000	156.04
$ 78 2-Chlorophenol-d4	132	4.434	4.434	(0.966)	590851	160.000	146.64
$ 79 1,2-Dichlorobenzene-d4	152	4.750	4.750	(1.035)	388190	160.000	142.30

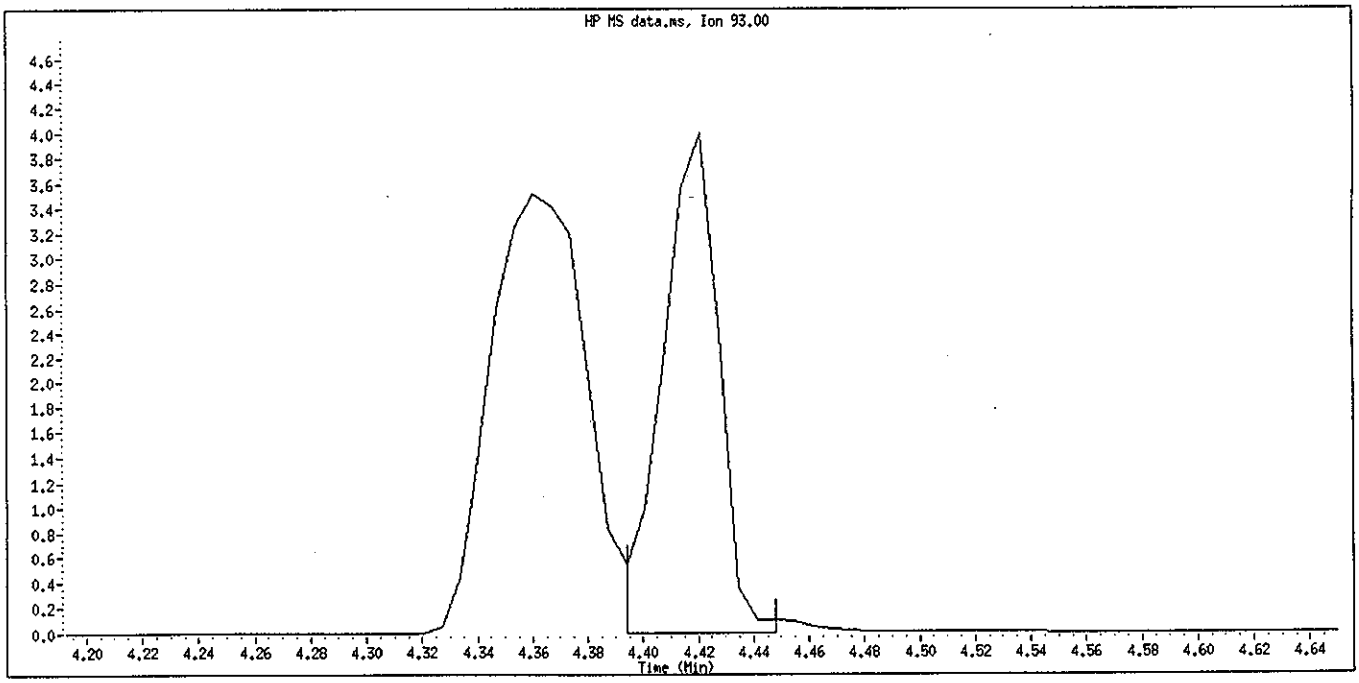
QC Flag Legend

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

Data File Name: D1024CC5.D
Inj. Date and Time: 24-OCT-2000 15:57
Instrument ID: 721.i
Client ID: SSTD160
Compound Name: Bis(2-chloroethyl)ether
CAS #: 111-44-4
Report Date: 10/24/2000



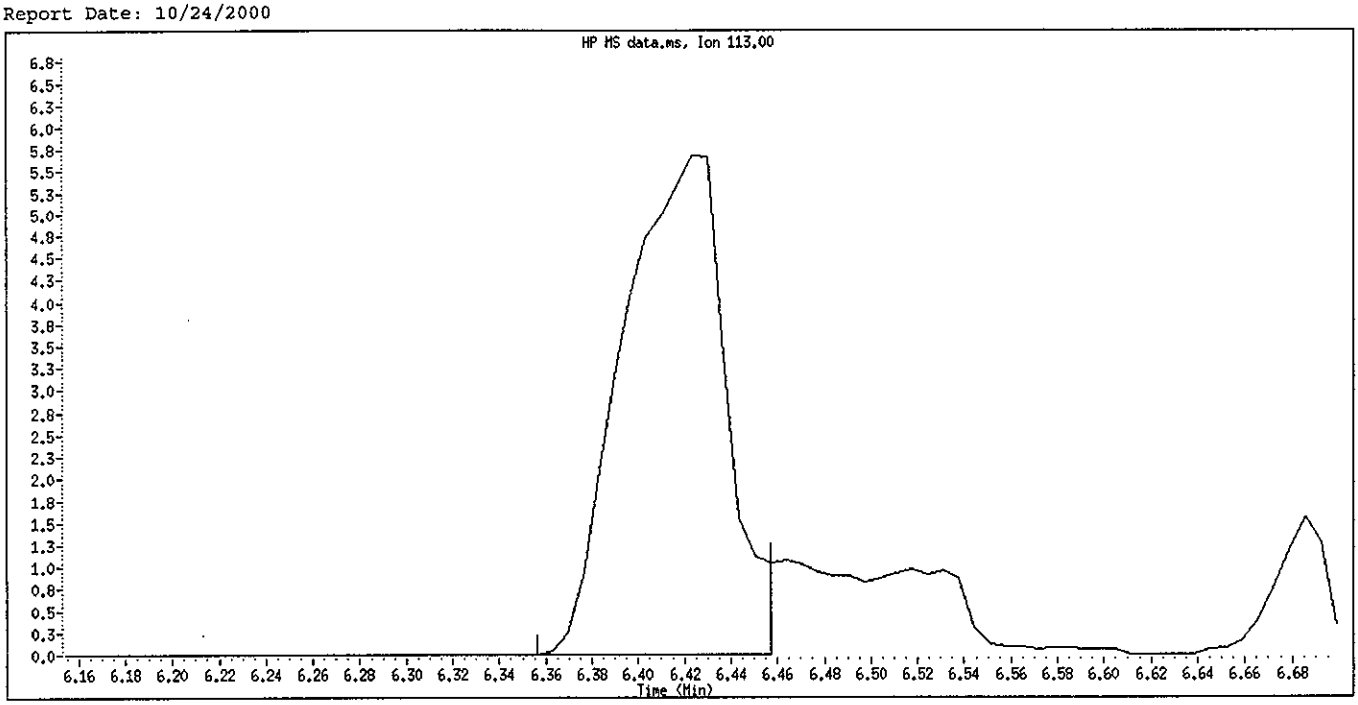
Original Integration



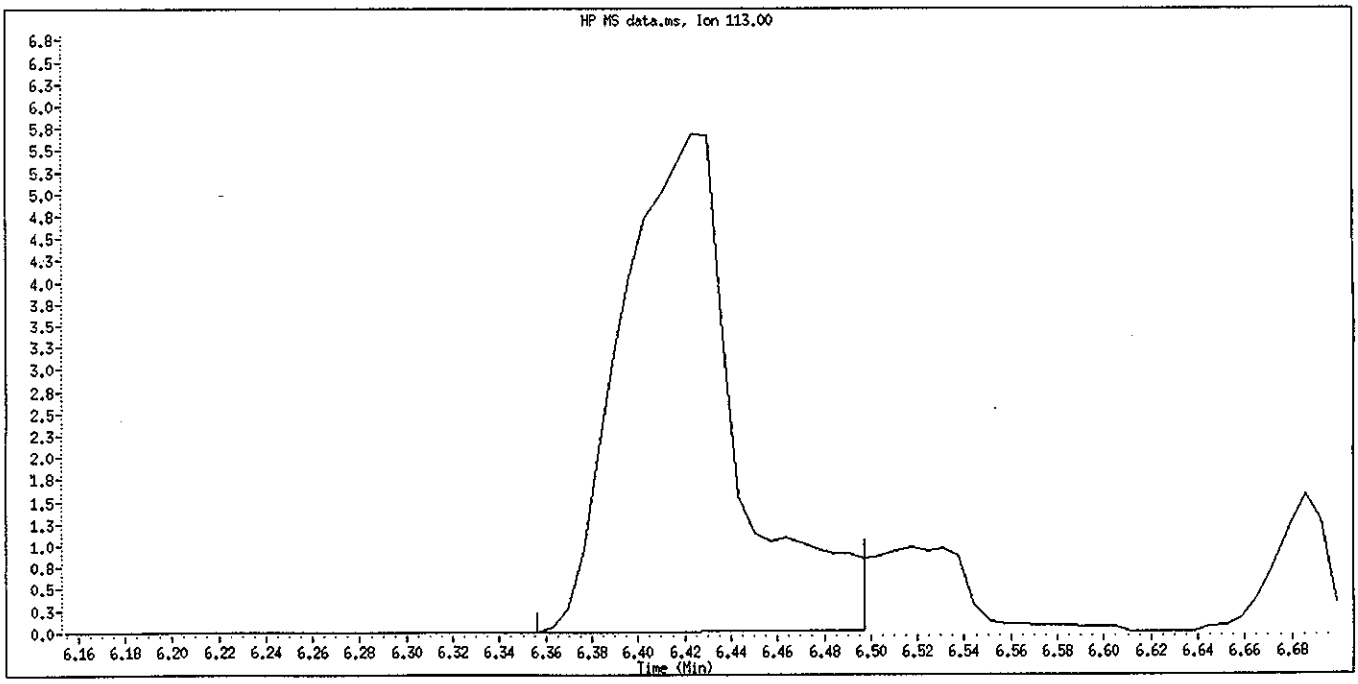
Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name: D1024CC5.D
Inj. Date and Time: 24-OCT-2000 15:57
Instrument ID: 721.i
Client ID: SSTD160
Compound Name: Caprolactam
CAS #: 105-60-2
Report Date: 10/24/2000



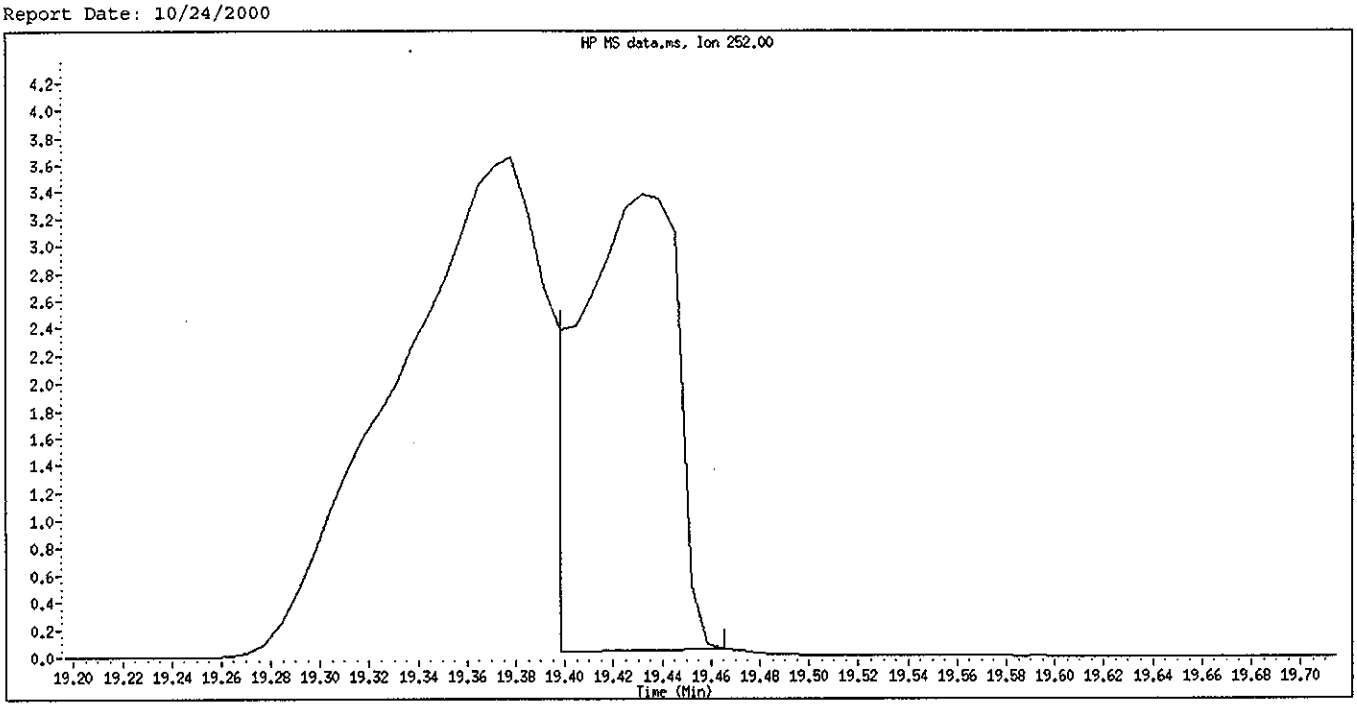
Original Integration



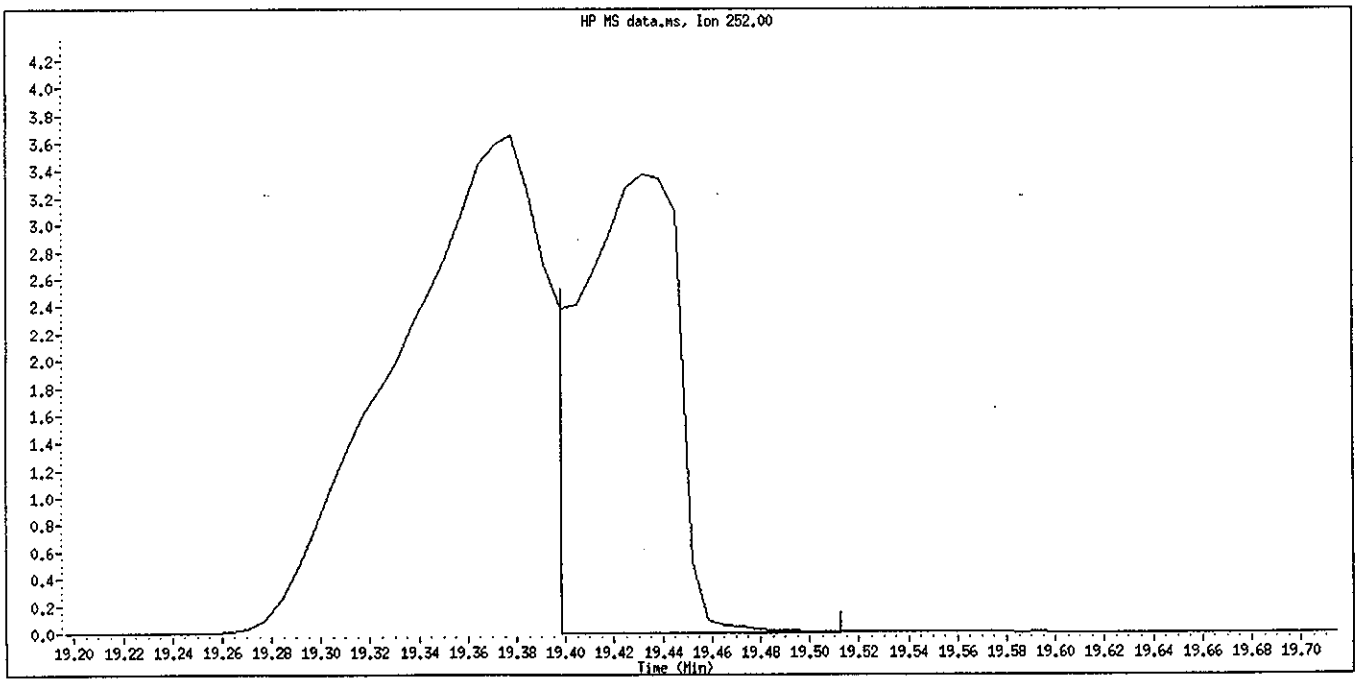
Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

Data File Name: D1024CC5.D
Inj. Date and Time: 24-OCT-2000 15:57
Instrument ID: 721.i
Client ID: SSTD160
Compound Name: Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 10/24/2000



Original Integration



Manual Integration

Manually Integrated By: FergusonD
Manual Integration Reason: Poor Chromatography

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 721.i
Lab File ID: D1024CC1.D
Lab Smp Id: sstd20
Analysis Type: SV
Quant Type: ISTD
Operator: 001562, DLF
Method File: \\QPITPA02\D\chem\721.i\d102400c\clp.m
Misc Info: sstd20,d102400c.b,clp.m,1-all.sub,1,1

Calibration Date: 24-OCT-2000
Calibration Time: 13:58
Client Smp ID: SSTD020
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	127589	63795	255178	125309	-1.79
2 Naphthalene-d8	471696	235848	943392	475044	0.71
3 Acenaphthene-d10	228312	114156	456624	231688	1.48
4 Phenanthrene-d10	382438	191219	764876	385232	0.73
5 Chrysene-d12	337287	168644	674574	337051	-0.07
6 Perylene-d12	282797	141399	565594	285124	0.82

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.58	4.08	5.08	4.58	-0.15
2 Naphthalene-d8	5.80	5.30	6.30	5.79	-0.12
3 Acenaphthene-d10	8.35	7.85	8.85	8.35	-0.08
4 Phenanthrene-d10	11.23	10.73	11.73	11.22	-0.06
5 Chrysene-d12	17.07	16.57	17.57	17.07	-0.04
6 Perylene-d12	20.04	19.54	20.54	20.04	-0.00

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.

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 721.i
Lab File ID: D1024CC2.D
Lab Smp Id: sstd50
Analysis Type: SV
Quant Type: ISTD
Operator: 001562, DLF
Method File: \\QPITPA02\D\chem\721.i\d102400c\clp.m
Misc Info: sstd50,d102400c.b,clp.m,1-all.sub,1,2

Calibration Date: 24-OCT-2000
Calibration Time: 13:58
Client Smp ID: SSTD050
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	127589	63795	255178	127589	0.00
2 Naphthalene-d8	471696	235848	943392	471696	0.00
3 Acenaphthene-d10	228312	114156	456624	228312	0.00
4 Phenanthrene-d10	382438	191219	764876	382438	0.00
5 Chrysene-d12	337287	168644	674574	337287	0.00
6 Perylene-d12	282797	141399	565594	282797	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.58	4.08	5.08	4.58	0.00
2 Naphthalene-d8	5.80	5.30	6.30	5.80	0.00
3 Acenaphthene-d10	8.35	7.85	8.85	8.35	0.00
4 Phenanthrene-d10	11.23	10.73	11.73	11.23	0.00
5 Chrysene-d12	17.07	16.57	17.57	17.07	0.00
6 Perylene-d12	20.04	19.54	20.54	20.04	0.00

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.

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 721.i
Lab File ID: D1024CC3.D
Lab Smp Id: sstd80
Analysis Type: SV
Quant Type: ISTD
Operator: 001562, DLF
Method File: \\QPITPA02\D\chem\721.i\d102400c\clp.m
Misc Info: sstd80,d102400c.b,clp.m,1-all.sub,1,3

Calibration Date: 24-OCT-2000
Calibration Time: 13:58
Client Smp ID: SSTD080
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	127589	63795	255178	130745	2.47
2 Naphthalene-d8	471696	235848	943392	485769	2.98
3 Acenaphthene-d10	228312	114156	456624	227102	-0.53
4 Phenanthrene-d10	382438	191219	764876	393059	2.78
5 Chrysene-d12	337287	168644	674574	339395	0.62
6 Perylene-d12	282797	141399	565594	288475	2.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.58	4.08	5.08	4.58	-0.02
2 Naphthalene-d8	5.80	5.30	6.30	5.81	0.10
3 Acenaphthene-d10	8.35	7.85	8.85	8.36	0.07
4 Phenanthrene-d10	11.23	10.73	11.73	11.23	0.05
5 Chrysene-d12	17.07	16.57	17.57	17.08	0.03
6 Perylene-d12	20.04	19.54	20.54	20.04	0.03

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.

STL-Pittsburgh

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 721.i
Lab File ID: D1024CC4.D
Lab Smp Id: sstd120
Analysis Type: SV
Quant Type: ISTD
Operator: 001562, DLF
Method File: \\QPITPA02\D\chem\721.i\d102400c\clp.m
Misc Info: sstd120,d102400c.b,clp.m,1-all.sub,1,4

Calibration Date: 24-OCT-2000
Calibration Time: 13:58
Client Smp ID: SSTD120
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	127589	63795	255178	126281	-1.03
2 Naphthalene-d8	471696	235848	943392	472911	0.26
3 Acenaphthene-d10	228312	114156	456624	218254	-4.41
4 Phenanthrene-d10	382438	191219	764876	380791	-0.43
5 Chrysene-d12	337287	168644	674574	314999	-6.61
6 Perylene-d12	282797	141399	565594	277401	-1.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.58	4.08	5.08	4.59	0.06
2 Naphthalene-d8	5.80	5.30	6.30	5.80	0.04
3 Acenaphthene-d10	8.35	7.85	8.85	8.36	0.03
4 Phenanthrene-d10	11.23	10.73	11.73	11.23	0.02
5 Chrysene-d12	17.07	16.57	17.57	17.08	0.05
6 Perylene-d12	20.04	19.54	20.54	20.05	0.05

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.

STL-Pittsburgh

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 721.i
Lab File ID: D1024CC5.D
Lab Smp Id: sstd160
Analysis Type: SV
Quant Type: ISTD
Operator: 001562, DLF
Calibration Date: 24-OCT-2000
Calibration Time: 13:58
Client Smp ID: SSTD160
Level:
Sample Type:
Method File: \\QPITPA02\D\chem\721.i\d102400c\clp.m
Misc Info: sstd160,d102400c.b,clp.m,1-all.sub,1,5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	127589	63795	255178	123012	-3.59
2 Naphthalene-d8	471696	235848	943392	461753	-2.11
3 Acenaphthene-d10	228312	114156	456624	209810	-8.10
4 Phenanthrene-d10	382438	191219	764876	361405	-5.50
5 Chrysene-d12	337287	168644	674574	302524	-10.31
6 Perylene-d12	282797	141399	565594	274472	-2.94

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 1,4-Dichlorobenze	4.58	4.08	5.08	4.59	0.13
2 Naphthalene-d8	5.80	5.30	6.30	5.81	0.10
3 Acenaphthene-d10	8.35	7.85	8.85	8.36	0.07
4 Phenanthrene-d10	11.23	10.73	11.73	11.24	0.11
5 Chrysene-d12	17.07	16.57	17.57	17.09	0.07
6 Perylene-d12	20.04	19.54	20.54	20.06	0.10

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.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Instrument ID: 721 Calibration Date: 10/24/00 Time: 1705

Lab File ID: D1024CC7 Init. Calib. Date(s): 10/24/00 10/24/00

EPA Sample No.(SSTD050##): SSTD050 Init. Calib. Times: 1329 1557

GC Column: ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.538	1.648	0.800	7.2	25.0
Bis(2-chloroethyl)ether	1.272	1.366	0.700	7.4	25.0
2-Chlorophenol	1.419	1.470	0.800	3.6	25.0
2-Methylphenol	1.162	1.249	0.700	7.5	25.0
2,2'-oxybis(1-Chloropropane)	1.647	1.852		12.4	
N-Nitroso-di-n-propylamine	0.923	0.980	0.500	6.2	25.0
4-Methylphenol	1.087	1.205	0.600	10.8	25.0
Hexachloroethane	0.603	0.642	0.300	6.5	25.0
Nitrobenzene	0.349	0.363	0.200	4.0	25.0
Isophorone	0.653	0.657	0.400	0.6	25.0
2-Nitrophenol	0.224	0.225	0.100	0.4	25.0
2,4-Dimethylphenol	0.323	0.331	0.200	2.5	25.0
Bis(2-chloroethoxy)methane	0.387	0.396	0.300	2.3	25.0
2,4-Dichlorophenol	0.290	0.288	0.200	-0.7	25.0
Naphthalene	0.989	1.020	0.700	3.1	25.0
4-Chloroaniline	0.431	0.435		0.9	
Hexachlorobutadiene	0.181	0.175		-3.3	
4-Chloro-3-Methylphenol	0.287	0.286	0.200	-0.3	25.0
2-Methylnaphthalene	0.598	0.616	0.400	3.0	25.0
Hexachlorocyclopentadiene	0.462	0.438		-5.2	
2,4,6-Trichlorophenol	0.435	0.426	0.200	-2.1	25.0
2,4,5-Trichlorophenol	0.461	0.456	0.200	-1.1	25.0
2-Chloronaphthalene	1.116	1.146	0.800	2.7	25.0
2-Nitroaniline	0.392	0.402		2.6	
Dimethylphthalate	1.390	1.386		-0.3	
Acenaphthylene	1.877	1.911	0.900	1.8	25.0
2,6-Dinitrotoluene	0.341	0.340	0.200	-0.3	25.0
3-Nitroaniline	0.407	0.403		-1.0	
Acenaphthene	1.145	1.151	0.900	0.5	25.0
2,4-Dinitrophenol	0.197	0.177		-10.2	
4-Nitrophenol	0.179	0.176		-1.7	
Dibenzofuran	1.573	1.600	0.800	1.7	25.0
2,4-Dinitrotoluene	0.457	0.447	0.200	-2.2	25.0
Diethylphthalate	1.350	1.365		1.1	
4-Chlorophenyl-phenylether	0.652	0.651	0.400	-0.2	25.0
Fluorene	1.194	1.229	0.900	2.9	25.0

All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Instrument ID: 721 Calibration Date: 10/24/00 Time: 1705

Lab File ID: D1024CC7 Init. Calib. Date(s): 10/24/00 10/24/00

EPA Sample No.(SSTD050##): SSTD050 Init. Calib. Times: 1329 1557

GC Column: ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
4-Nitroaniline	0.404	0.393		-2.7	
4,6-Dinitro-2-methylphenol	0.153	0.151		-1.3	
N-Nitrosodiphenylamine (1)	0.543	0.574		5.7	
4-Bromophenyl-phenylether	0.228	0.226	0.100	-0.9	25.0
Hexachlorobenzene	0.267	0.263	0.100	-1.5	25.0
Pentachlorophenol	0.132	0.128	0.050	-3.0	25.0
Phenanthrene	0.982	1.012	0.700	3.0	25.0
Anthracene	0.994	1.063	0.700	6.9	25.0
Carbazole	0.929	0.945		1.7	
Di-n-Butylphthalate	1.314	1.370		4.3	
Fluoranthene	1.047	1.057	0.600	1.0	25.0
Pyrene	1.201	1.233	0.600	2.7	25.0
Butylbenzylphthalate	0.638	0.661		3.6	
3,3'-Dichlorobenzidine	0.423	0.435		2.8	
Benzo(a)Anthracene	1.071	1.082	0.800	1.0	25.0
Chrysene	0.976	0.987	0.700	1.1	25.0
bis(2-ethylhexyl)Phthalate	0.881	0.918		4.2	
Di-n-octylphthalate	1.724	1.866		8.2	
Benzo(b)fluoranthene	1.321	1.265	0.700	-4.2	25.0
Benzo(k)fluoranthene	1.112	1.213	0.700	9.1	25.0
Benzo(a)pyrene	1.104	1.116	0.700	1.1	25.0
Indeno(1,2,3-cd)pyrene	1.123	1.102	0.500	-1.9	25.0
Dibenz(a,h)anthracene	1.129	1.149	0.400	1.8	25.0
Benzo(g,h,i)perylene	1.155	1.173	0.500	1.6	25.0
Benzaldehyde	0.672	0.819		21.9	
Acetophenone	1.643	1.707		3.9	
Caprolactam	0.112	0.108		-3.6	
1,1'-Biphenyl	1.424	1.474		3.5	
Atrazine	0.206	0.202		-1.9	
Nitrobenzene-d5	0.370	0.396	0.200	7.0	25.0
2-Fluorobiphenyl	1.345	1.417	0.700	5.4	25.0
Terphenyl-d14	0.964	1.003	0.500	4.0	25.0
Phenol-d5	1.522	1.692	0.800	11.2	25.0
2-Fluorophenol	1.412	1.502	0.600	6.4	25.0
2,4,6-Tribromophenol	0.158	0.158		0.0	
2-Chlorophenol-d4	1.310	1.432	0.800	9.3	25.0
1,2-Dichlorobenzene-d4	0.887	0.970	0.400	9.4	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

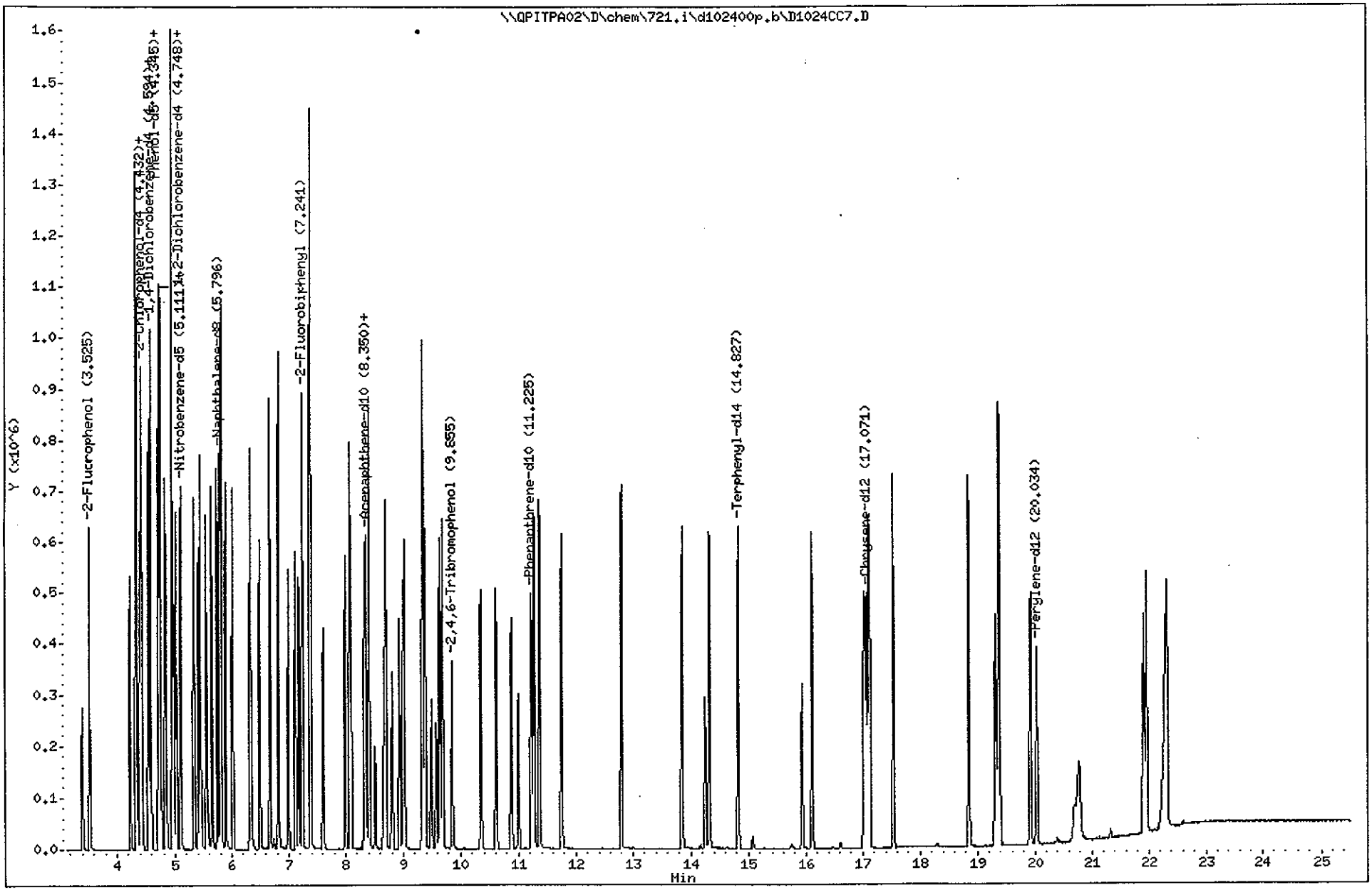
FORM VII SV-2 OLM04.2

Data File: \\QPITPA02\D\chem\721.i\d102400p.b\D1024CC7.D
Date : 24-OCT-2000 17:05
Client ID: SSTD050
Sample Info: SSTD050 (25ug/ml) 77-03-1 8270/clp/625

Instrument: 721.i

Operator: 001562, DLF
Column diameter: 0.25

Column phase:



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Semivolatile REPORT CLP3.2

Data file : \\QPITPA02\D\chem\721.i\d102400p.b\D1024CC7.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 24-OCT-2000 17:05
Operator : 001562, DLF Inst ID: 721.i
Smp Info : SSTD050 (25ug/ml) 77-03-1 8270/clp/625
Misc Info : sstd50,d102400p.b,clp.m,1-all.sub,2
Comment :
Method : \\QPITPA02\D\chem\721.i\d102400p.b\clp.m
Meth Date : 24-Oct-2000 17:53 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 15:57 Cal File: D1024CC5.D
Als bottle: 7 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-24-00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.580	4.580	(1.000)	127375	40.0000	
* 2	Naphthalene-d8	136	5.796	5.796	(1.000)	487214	40.0000	
* 3	Acenaphthene-d10	164	8.349	8.349	(1.000)	226116	40.0000	
* 4	Phenanthrene-d10	188	11.225	11.225	(1.000)	371440	40.0000	
* 5	Chrysene-d12	240	17.071	17.071	(1.000)	314386	40.0000	
* 6	Perylene-d12	264	20.034	20.034	(1.000)	260354	40.0000	
191	Benzaldehyde	77	4.230	4.230	(0.924)	130345	50.0000	60.910
7	Phenol	94	4.344	4.344	(0.949)	262348	50.0000	53.540
8	Bis(2-chloroethyl)ether	93	4.405	4.405	(0.962)	217520	50.0000	53.706
9	2-Chlorophenol	128	4.438	4.438	(0.969)	234122	50.0000	51.824
10	1,3-Dichlorobenzene	146	4.553	4.553	(0.994)	245411	50.0000	51.280
11	1,4-Dichlorobenzene	146	4.593	4.593	(1.003)	245077	50.0000	51.668
12	1,2-Dichlorobenzene	146	4.754	4.754	(1.038)	224110	50.0000	52.541
189	Benzyl Alcohol	108	4.721	4.721	(1.031)	156906	50.0000	55.448
13	2-Methylphenol	108	4.828	4.828	(1.054)	198855	50.0000	53.731
14	2,2'-oxybis(1-Chloropropane)	45	4.855	4.855	(1.060)	294879	50.0000	56.231
192	Acetophenone	105	4.956	4.956	(1.082)	271818	50.0000	51.975
15	4-Methylphenol	108	4.956	4.956	(1.082)	191805	50.0000	55.380
16	N-Nitroso-di-n-propylamine	70	4.983	4.983	(1.088)	156009	50.0000	53.083
17	Hexachloroethane	117	5.023	5.023	(1.097)	102287	50.0000	53.303
18	Nitrobenzene	77	5.110	5.110	(0.882)	221243	50.0000	52.100
19	Isophorone	82	5.332	5.332	(0.920)	399882	50.0000	50.280
20	2-Nitrophenol	139	5.413	5.413	(0.934)	136787	50.0000	50.049
21	2,4-Dimethylphenol	107	5.446	5.446	(0.940)	201603	50.0000	51.194
22	Bis(2-chloroethoxy)methane	93	5.554	5.554	(0.958)	241048	50.0000	51.192
190	Benzoic acid	122	5.587	5.587	(0.964)	34066	50.0000	39.982

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
23	2,4-Dichlorophenol	162	5.655	5.655	(0.976)	175376	50.0000	49.684
24	1,2,4-Trichlorobenzene	180	5.749	5.749	(0.992)	185028	50.0000	49.651
25	Naphthalene	128	5.823	5.823	(1.005)	621000	50.0000	51.558
26	4-Chloroaniline	127	5.897	5.897	(1.017)	264804	50.0000	50.471
193	Caprolactam	113	6.333	6.333	(1.093)	65483	50.0000	47.782
27	Hexachlorobutadiene	225	6.024	6.024	(1.039)	106477	50.0000	48.366
28	4-Chloro-3-Methylphenol	107	6.495	6.495	(1.121)	174159	50.0000	49.802
29	2-Methylnaphthalene	142	6.669	6.669	(1.151)	375236	50.0000	51.524
30	Hexachlorocyclopentadiene	237	6.999	6.999	(0.838)	123872	50.0000	47.428
31	2,4,6-Trichlorophenol	196	7.119	7.119	(0.853)	120313	50.0000	48.864
32	2,4,5-Trichlorophenol	196	7.173	7.173	(0.859)	128752	50.0000	49.399
194	1,1'-Biphenyl	154	7.375	7.375	(0.883)	416500	50.0000	51.746
33	2-Chloronaphthalene	162	7.388	7.388	(0.885)	323779	50.0000	51.307
34	2-Nitroaniline	65	7.610	7.610	(0.911)	113560	50.0000	51.313
35	Dimethylphthalate	163	8.000	8.000	(0.958)	391618	50.0000	49.824
36	Acenaphthylene	152	8.074	8.074	(0.967)	540162	50.0000	50.910
37	2,6-Dinitrotoluene	165	8.100	8.100	(0.970)	96091	50.0000	49.897
38	3-Nitroaniline	138	8.329	8.329	(0.998)	113999	50.0000	49.597
39	Acenaphthene	153	8.410	8.410	(1.007)	325439	50.0000	50.293
40	2,4-Dinitrophenol	184	8.510	8.510	(1.019)	50009	50.0000	44.818
41	4-Nitrophenol	109	8.665	8.665	(1.038)	49790	50.0000	49.256
42	Dibenzofuran	168	8.692	8.692	(1.041)	452391	50.0000	50.889
43	2,4-Dinitrotoluene	165	8.806	8.806	(1.055)	126359	50.0000	48.932
44	Diethylphthalate	149	9.330	9.330	(1.117)	385918	50.0000	50.572
45	4-Chlorophenyl-phenylether	204	9.384	9.384	(1.124)	183958	50.0000	49.873
46	Fluorene	166	9.344	9.344	(1.119)	347343	50.0000	51.458
47	4-Nitroaniline	138	9.498	9.498	(1.138)	111110	50.0000	48.654
48	4,6-Dinitro-2-methylphenol	198	9.579	9.579	(0.853)	69941	50.0000	49.034
49	N-Nitrosodiphenylamine (1)	169	9.646	9.646	(0.859)	266480	50.0000	52.891
50	4-Bromophenyl-phenylether	248	10.351	10.351	(0.922)	105172	50.0000	49.628
51	Hexachlorobenzene	284	10.607	10.607	(0.945)	122274	50.0000	49.364
195	Atrazine	200	10.876	10.876	(0.969)	93590	50.0000	49.034
53	Pentachlorophenol	266	10.996	10.996	(0.980)	59462	50.0000	48.281
54	Phenanthrene	178	11.279	11.279	(1.005)	469989	50.0000	51.566
55	Anthracene	178	11.366	11.366	(1.013)	493562	50.0000	53.466
56	Carbazole	167	11.756	11.756	(1.047)	438731	50.0000	50.860
57	Di-n-Butylphthalate	149	12.804	12.804	(1.141)	636136	50.0000	52.150
58	Fluoranthene	202	13.852	13.852	(1.234)	490780	50.0000	50.498
59	Pyrene	202	14.329	14.329	(0.839)	484726	50.0000	51.333
60	Butylbenzylphthalate	149	16.110	16.110	(0.944)	259754	50.0000	51.797
61	3,3'-Dichlorobenzidine	252	17.104	17.104	(1.002)	170864	50.0000	51.324
62	Benzo(a)Anthracene	228	17.030	17.030	(0.998)	425179	50.0000	50.493
63	Chrysene	228	17.124	17.124	(1.003)	387879	50.0000	50.593
64	bis(2-ethylhexyl)Phthalate	149	17.541	17.541	(1.028)	360742	50.0000	52.092
65	Di-n-octylphthalate	149	18.851	18.851	(0.941)	607305	50.0000	54.125
66	Benzo(b)fluoranthene	252	19.315	19.315	(0.964)	411666	50.0000	47.898
67	Benzo(k)fluoranthene	252	19.369	19.369	(0.967)	394879	50.0000	54.545

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
68	Benzo(a)pyrene	252	19.926	19.926	(0.995)	363066	50.0000	50.554
69	Indeno(1,2,3-cd)pyrene	276	21.915	21.915	(1.094)	358619	50.0000	49.057
70	Dibenz(a,h)anthracene	278	21.962	21.962	(1.096)	374056	50.0000	50.921
71	Benzo(g,h,i)perylene	276	22.325	22.325	(1.114)	381818	50.0000	50.799
$ 72	Nitrobenzene-d5	82	5.097	5.097	(0.879)	241286	50.0000	53.509
$ 73	2-Fluorobiphenyl	172	7.240	7.240	(0.867)	400499	50.0000	52.659
$ 74	Terphenyl-d14	244	14.826	14.826	(0.869)	394290	50.0000	52.016
$ 75	Phenol-d5	99	4.331	4.331	(0.946)	269395	50.0000	55.592
$ 76	2-Fluorophenol	112	3.525	3.525	(0.770)	239103	50.0000	53.163
$ 77	2,4,6-Tribromophenol	330	9.854	9.854	(0.878)	73297	50.0000	49.981
$ 78	2-Chlorophenol-d4	132	4.425	4.425	(0.966)	227927	50.0000	54.631
$ 79	1,2-Dichlorobenzene-d4	152	4.741	4.741	(1.035)	154398	50.0000	54.660

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Instrument ID: 721 Calibration Date: 10/25/00 Time: 1314

Lab File ID: D1025CCC Init. Calib. Date(s): 10/24/00 10/24/00

EPA Sample No.(SSTD050##): SSTD050 Init. Calib. Times: 1329 1557

GC Column: ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.538	1.681	0.800	9.3	25.0
Bis(2-chloroethyl)ether	1.272	1.348	0.700	6.0	25.0
2-Chlorophenol	1.419	1.465	0.800	3.2	25.0
2-Methylphenol	1.162	1.222	0.700	5.2	25.0
2,2'-oxybis(1-Chloropropane)	1.647	1.829		11.0	
N-Nitroso-di-n-propylamine	0.923	0.970	0.500	5.1	25.0
4-Methylphenol	1.087	1.182	0.600	8.7	25.0
Hexachloroethane	0.603	0.632	0.300	4.8	25.0
Nitrobenzene	0.349	0.364	0.200	4.3	25.0
Isophorone	0.653	0.658	0.400	0.8	25.0
2-Nitrophenol	0.224	0.222	0.100	-0.9	25.0
2,4-Dimethylphenol	0.323	0.329	0.200	1.8	25.0
Bis(2-chloroethoxy)methane	0.387	0.396	0.300	2.3	25.0
2,4-Dichlorophenol	0.290	0.290	0.200	0.0	25.0
Naphthalene	0.989	1.016	0.700	2.7	25.0
4-Chloroaniline	0.431	0.444		3.0	
Hexachlorobutadiene	0.181	0.177		-2.2	
4-Chloro-3-Methylphenol	0.287	0.291	0.200	1.4	25.0
2-Methylnaphthalene	0.598	0.625	0.400	4.5	25.0
Hexachlorocyclopentadiene	0.462	0.459		-0.6	
2,4,6-Trichlorophenol	0.435	0.437	0.200	0.4	25.0
2,4,5-Trichlorophenol	0.461	0.479	0.200	3.9	25.0
2-Chloronaphthalene	1.116	1.158	0.800	3.8	25.0
2-Nitroaniline	0.392	0.408		4.1	
Dimethylphthalate	1.390	1.420		2.2	
Acenaphthylene	1.877	1.949	0.900	3.8	25.0
2,6-Dinitrotoluene	0.341	0.349	0.200	2.3	25.0
3-Nitroaniline	0.407	0.424		4.2	
Acenaphthene	1.145	1.185	0.900	3.5	25.0
2,4-Dinitrophenol	0.197	0.213		8.1	
4-Nitrophenol	0.179	0.195		8.9	
Dibenzofuran	1.573	1.630	0.800	3.6	25.0
2,4-Dinitrotoluene	0.457	0.461	0.200	0.9	25.0
Diethylphthalate	1.350	1.417		5.0	
4-Chlorophenyl-phenylether	0.652	0.659	0.400	1.1	25.0
Fluorene	1.194	1.256	0.900	5.2	25.0

All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Instrument ID: 721 Calibration Date: 10/25/00 Time: 1314

Lab File ID: D1025CCC Init. Calib. Date(s): 10/24/00 10/24/00

EPA Sample No.(SSTD050##): SSTD050 Init. Calib. Times: 1329 1557

GC Column: ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
4-Nitroaniline	0.404	0.413		2.2	
4,6-Dinitro-2-methylphenol	0.153	0.168		9.8	
N-Nitrosodiphenylamine (1)	0.543	0.567		4.4	
4-Bromophenyl-phenylether	0.228	0.228	0.100	0.0	25.0
Hexachlorobenzene	0.267	0.265	0.100	-0.7	25.0
Pentachlorophenol	0.132	0.159	0.050	20.4	25.0
Phenanthrene	0.982	1.002	0.700	2.0	25.0
Anthracene	0.994	1.038	0.700	4.4	25.0
Carbazole	0.929	0.952		2.5	
Di-n-Butylphthalate	1.314	1.385		5.4	
Fluoranthene	1.047	1.101	0.600	5.2	25.0
Pyrene	1.201	1.199	0.600	-0.2	25.0
Butylbenzylphthalate	0.638	0.648		1.6	
3,3'-Dichlorobenzidine	0.423	0.447		5.7	
Benzo(a)Anthracene	1.071	1.088	0.800	1.6	25.0
Chrysene	0.976	0.990	0.700	1.4	25.0
bis(2-ethylhexyl)Phthalate	0.881	0.906		2.8	
Di-n-octylphthalate	1.724	1.845		7.0	
Benzo(b)fluoranthene	1.321	1.231	0.700	-6.8	25.0
Benzo(k)fluoranthene	1.112	1.246	0.700	12.0	25.0
Benzo(a)pyrene	1.104	1.123	0.700	1.7	25.0
Indeno(1,2,3-cd)pyrene	1.123	1.068	0.500	-4.9	25.0
Dibenz(a,h)anthracene	1.129	1.104	0.400	-2.2	25.0
Benzo(g,h,i)perylene	1.155	1.076	0.500	-6.8	25.0
Benzaldehyde	0.672	0.787		17.1	
Acetophenone	1.643	1.675		1.9	
Caprolactam	0.112	0.111		-0.9	
1,1'-Biphenyl	1.424	1.459		2.4	
Atrazine	0.206	0.193		-6.3	
Nitrobenzene-d5	0.370	0.396	0.200	7.0	25.0
2-Fluorobiphenyl	1.345	1.437	0.700	6.8	25.0
Terphenyl-d14	0.964	0.991	0.500	2.8	25.0
Phenol-d5	1.522	1.702	0.800	11.8	25.0
2-Fluorophenol	1.412	1.507	0.600	6.7	25.0
2,4,6-Tribromophenol	0.158	0.162		2.5	
2-Chlorophenol-d4	1.310	1.419	0.800	8.3	25.0
1,2-Dichlorobenzene-d4	0.887	0.982	0.400	10.7	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

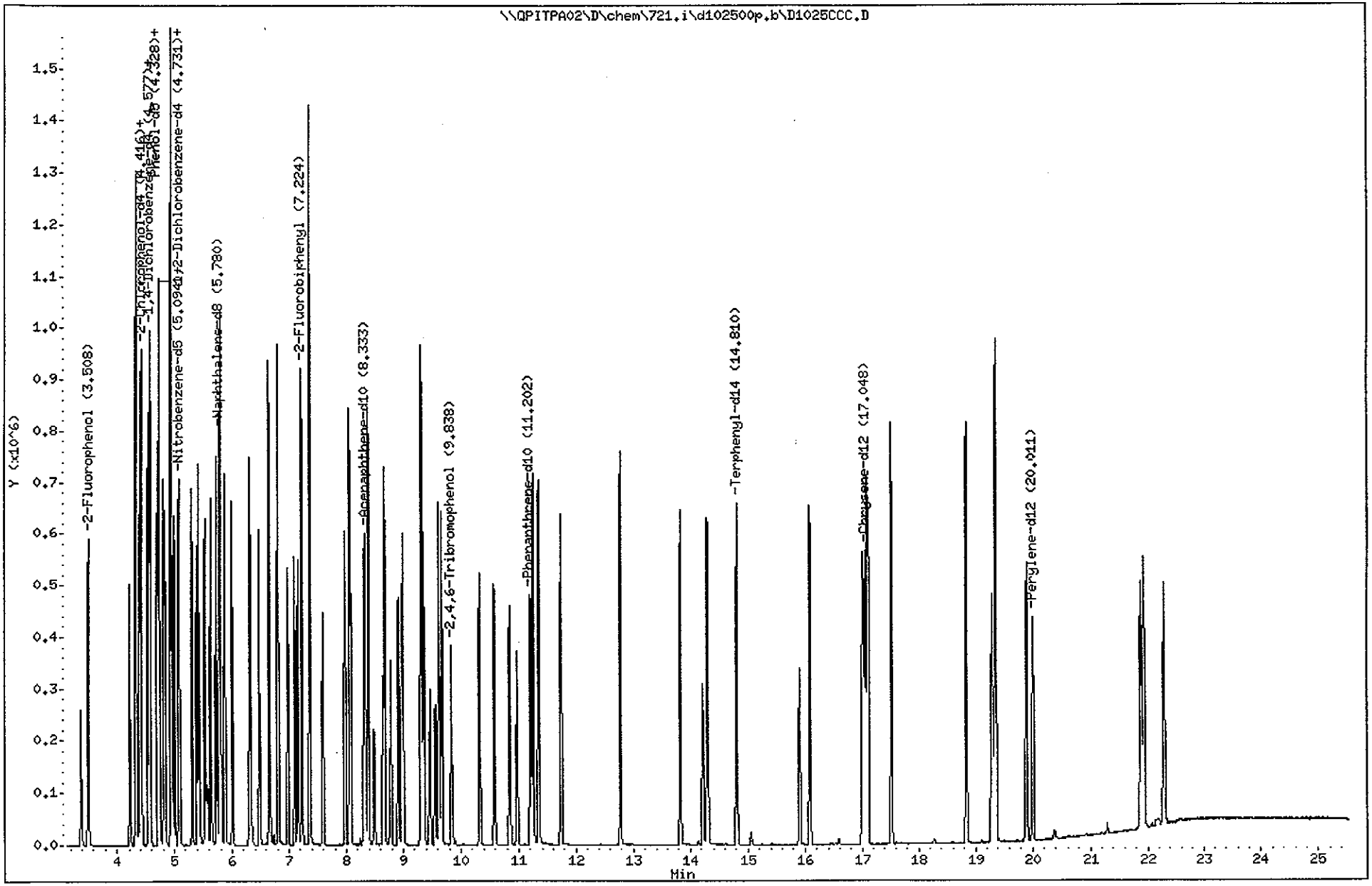
FORM VII SV-2 OLM04.2

Data File: \\QPITPA02\D\chem\721.i\d102500p.b\D1025CCC.D
Date : 25-OCT-2000 13:14
Client ID: SSTD050
Sample Info: SSTD050 (25ug/ml) 77-03-1 8270/clp/625

Instrument: 721.i

Operator: 001562, DLF
Column diameter: 0.25

Column phase:



STL-Pittsburgh

Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102500p.b\D1025CCC.D
Lab Smp Id: sstd50 Client Smp ID: SSTD050
Inj Date : 25-OCT-2000 13:14
Operator : 001562, DLF Inst ID: 721.i
Smp Info : SSTD050 (25ug/ml) 77-03-1 8270/clp/625
Misc Info : sstd50,d102500p.b,clp.m,1-all.sub,2
Comment :
Method : \\QPITPA02\D\chem\721.i\d102500p.b\clp.m
Meth Date : 25-Oct-2000 13:53 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 15:57 Cal File: D1024CC5.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-25-00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	4.563	4.563	(1.000)	128368	40.0000	
* 2	Naphthalene-d8	136	5.779	5.779	(1.000)	485682	40.0000	
* 3	Acenaphthene-d10	164	8.332	8.332	(1.000)	225161	40.0000	
* 4	Phenanthrene-d10	188	11.201	11.201	(1.000)	387488	40.0000	
* 5	Chrysene-d12	240	17.047	17.047	(1.000)	347939	40.0000	
* 6	Perylene-d12	264	20.010	20.010	(1.000)	295404	40.0000	
191	Benzaldehyde	77	4.213	4.213	(0.923)	126358	50.0000	58.591
7	Phenol	94	4.328	4.328	(0.948)	269694	50.0000	54.613
8	Bis(2-chloroethyl)ether	93	4.388	4.388	(0.962)	216259	50.0000	52.982
9	2-Chlorophenol	128	4.422	4.422	(0.969)	235085	50.0000	51.634
10	1,3-Dichlorobenzene	146	4.536	4.536	(0.994)	250096	50.0000	51.855
11	1,4-Dichlorobenzene	146	4.576	4.576	(1.003)	248409	50.0000	51.966
12	1,2-Dichlorobenzene	146	4.738	4.738	(1.038)	226920	50.0000	52.788
189	Benzyl Alcohol	108	4.704	4.704	(1.031)	157340	50.0000	55.172
13	2-Methylphenol	108	4.818	4.818	(1.056)	196067	50.0000	52.568
14	2,2'-oxybis(1-Chloropropane)	45	4.838	4.838	(1.060)	293519	50.0000	55.539
192	Acetophenone	105	4.939	4.939	(1.082)	268791	50.0000	50.998
15	4-Methylphenol	108	4.939	4.939	(1.082)	189587	50.0000	54.316
16	N-Nitroso-di-n-propylamine	70	4.966	4.966	(1.088)	155576	50.0000	52.527
17	Hexachloroethane	117	5.006	5.006	(1.097)	101421	50.0000	52.443
18	Nitrobenzene	77	5.094	5.094	(0.881)	221282	50.0000	52.273
19	Isophorone	82	5.315	5.315	(0.920)	399812	50.0000	50.429
20	2-Nitrophenol	139	5.396	5.396	(0.934)	134489	50.0000	49.363
21	2,4-Dimethylphenol	107	5.430	5.430	(0.940)	199626	50.0000	50.852
22	Bis(2-chloroethoxy)methane	93	5.537	5.537	(0.958)	240414	50.0000	51.218
190	Benzoic acid	122	5.577	5.577	(0.965)	69951	50.0000	82.357

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
23	2,4-Dichlorophenol	162	5.638	5.638	(0.976)	176053	50.0000	50.033
24	1,2,4-Trichlorobenzene	180	5.732	5.732	(0.992)	185109	50.0000	49.829
25	Naphthalene	128	5.799	5.799	(1.003)	616994	50.0000	51.386
26	4-Chloroaniline	127	5.880	5.880	(1.017)	269362	50.0000	51.502
193	Caprolactam	113	6.310	6.310	(1.092)	67363	50.0000	49.309
27	Hexachlorobutadiene	225	6.008	6.008	(1.040)	107400	50.0000	48.940
28	4-Chloro-3-Methylphenol	107	6.478	6.478	(1.121)	176701	50.0000	50.688
29	2-Methylnaphthalene	142	6.653	6.653	(1.151)	379600	50.0000	52.288
30	Hexachlorocyclopentadiene	237	6.982	6.982	(0.838)	129112	50.0000	49.644
31	2,4,6-Trichlorophenol	196	7.103	7.103	(0.852)	123084	50.0000	50.202
32	2,4,5-Trichlorophenol	196	7.156	7.156	(0.859)	134804	50.0000	51.941
194	1,1'-Biphenyl	154	7.358	7.358	(0.883)	410720	50.0000	51.244
33	2-Chloronaphthalene	162	7.372	7.372	(0.885)	326038	50.0000	51.884
34	2-Nitroaniline	65	7.593	7.593	(0.911)	114708	50.0000	52.051
35	Dimethylphthalate	163	7.976	7.976	(0.957)	399623	50.0000	51.058
36	Acenaphthylene	152	8.057	8.057	(0.967)	548491	50.0000	51.914
37	2,6-Dinitrotoluene	165	8.084	8.084	(0.970)	98169	50.0000	51.192
38	3-Nitroaniline	138	8.312	8.312	(0.998)	119331	50.0000	52.137
39	Acenaphthene	153	8.386	8.386	(1.006)	333490	50.0000	51.756
40	2,4-Dinitrophenol	184	8.494	8.494	(1.019)	59903	50.0000	53.913
41	4-Nitrophenol	109	8.648	8.648	(1.038)	54855	50.0000	54.497
42	Dibenzofuran	168	8.675	8.675	(1.041)	458725	50.0000	51.820
43	2,4-Dinitrotoluene	165	8.789	8.789	(1.055)	129879	50.0000	50.508
44	Diethylphthalate	149	9.313	9.313	(1.118)	398751	50.0000	52.475
45	4-Chlorophenyl-phenylether	204	9.367	9.367	(1.124)	185416	50.0000	50.481
46	Fluorene	166	9.327	9.327	(1.119)	353549	50.0000	52.599
47	4-Nitroaniline	138	9.475	9.475	(1.137)	116215	50.0000	51.105
48	4,6-Dinitro-2-methylphenol	198	9.562	9.562	(0.854)	81234	50.0000	54.593
49	N-Nitrosodiphenylamine (1)	169	9.622	9.622	(0.859)	274798	50.0000	52.283
50	4-Bromophenyl-phenylether	248	10.328	10.328	(0.922)	110542	50.0000	50.002
51	Hexachlorobenzene	284	10.590	10.590	(0.945)	128333	50.0000	49.664
195	Atrazine	200	10.852	10.852	(0.969)	93680	50.0000	47.048
53	Pentachlorophenol	266	10.973	10.973	(0.980)	76832	50.0000	59.801
54	Phenanthrene	178	11.255	11.255	(1.005)	485553	50.0000	51.067
55	Anthracene	178	11.349	11.349	(1.013)	502926	50.0000	52.224
56	Carbazole	167	11.739	11.739	(1.048)	460959	50.0000	51.224
57	Di-n-Butylphthalate	149	12.780	12.780	(1.141)	671039	50.0000	52.733
58	Fluoranthene	202	13.829	13.829	(1.235)	533243	50.0000	52.595
59	Pyrene	202	14.306	14.306	(0.839)	521334	50.0000	49.886
60	Butylbenzylphthalate	149	16.086	16.086	(0.944)	281620	50.0000	50.742
61	3,3'-Dichlorobenzidine	252	17.081	17.081	(1.002)	194356	50.0000	52.751
62	Benzo(a)Anthracene	228	17.014	17.014	(0.998)	473025	50.0000	50.758
63	Chrysene	228	17.108	17.108	(1.004)	430366	50.0000	50.722
64	bis(2-ethylhexyl)Phthalate	149	17.518	17.518	(1.028)	394173	50.0000	51.431
65	Di-n-octylphthalate	149	18.834	18.834	(0.941)	681337	50.0000	53.518
66	Benzo(b)fluoranthene	252	19.298	19.298	(0.964)	454443	50.0000	46.602
67	Benzo(k)fluoranthene	252	19.345	19.345	(0.967)	460120	50.0000	56.016

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	68 Benzo(a)pyrene	252	19.903	19.903	(0.995)	414756	50.0000	50.899
	69 Indeno(1,2,3-cd)pyrene	276	21.892	21.892	(1.094)	394569	50.0000	47.571
	70 Dibenz(a,h)anthracene	278	21.945	21.945	(1.097)	407655	50.0000	48.910
	71 Benzo(g,h,i)perylene	276	22.302	22.302	(1.115)	397333	50.0000	46.591
$	72 Nitrobenzene-d5	82	5.080	5.080	(0.879)	240289	50.0000	53.456
$	73 2-Fluorobiphenyl	172	7.224	7.224	(0.867)	404519	50.0000	53.413
$	74 Terphenyl-d14	244	14.810	14.810	(0.869)	431170	50.0000	51.396
$	75 Phenol-d5	99	4.314	4.314	(0.946)	273158	50.0000	55.932
$	76 2-Fluorophenol	112	3.508	3.508	(0.769)	241782	50.0000	53.343
$	77 2,4,6-Tribromophenol	330	9.837	9.837	(0.878)	78701	50.0000	51.443
$	78 2-Chlorophenol-d4	132	4.408	4.408	(0.966)	227731	50.0000	54.162
$	79 1,2-Dichlorobenzene-d4	152	4.731	4.731	(1.037)	157571	50.0000	55.352

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Instrument ID: 721 Calibration Date: 10/26/00 Time: 1507

Lab File ID: D1026CC3 Init. Calib. Date(s): 10/24/00 10/24/00

EPA Sample No.(SSTD050##): SSTD50 Init. Calib. Times: 1329 1557

GC Column: ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.538	1.699	0.800	10.5	25.0
Bis(2-chloroethyl)ether	1.272	1.373	0.700	7.9	25.0
2-Chlorophenol	1.419	1.476	0.800	4.0	25.0
2-Methylphenol	1.162	1.237	0.700	6.4	25.0
2,2'-oxybis(1-Chloropropane)	1.647	1.876		13.9	
N-Nitroso-di-n-propylamine	0.923	1.017	0.500	10.2	25.0
4-Methylphenol	1.087	1.209	0.600	11.2	25.0
Hexachloroethane	0.603	0.622	0.300	3.2	25.0
Nitrobenzene	0.349	0.368	0.200	5.4	25.0
Isophorone	0.653	0.678	0.400	3.8	25.0
2-Nitrophenol	0.224	0.228	0.100	1.8	25.0
2,4-Dimethylphenol	0.323	0.330	0.200	2.2	25.0
Bis(2-chloroethoxy)methane	0.387	0.412	0.300	6.4	25.0
2,4-Dichlorophenol	0.290	0.299	0.200	3.1	25.0
Naphthalene	0.989	1.031	0.700	4.2	25.0
4-Chloroaniline	0.431	0.446		3.5	
Hexachlorobutadiene	0.181	0.177		-2.2	
4-Chloro-3-Methylphenol	0.287	0.304	0.200	5.9	25.0
2-Methylnaphthalene	0.598	0.641	0.400	7.2	25.0
Hexachlorocyclopentadiene	0.462	0.447		-3.2	
2,4,6-Trichlorophenol	0.435	0.434	0.200	-0.2	25.0
2,4,5-Trichlorophenol	0.461	0.473	0.200	2.6	25.0
2-Chloronaphthalene	1.116	1.142	0.800	2.3	25.0
2-Nitroaniline	0.392	0.410		4.6	
Dimethylphthalate	1.390	1.431		2.9	
Acenaphthylene	1.877	1.942	0.900	3.5	25.0
2,6-Dinitrotoluene	0.341	0.357	0.200	4.7	25.0
3-Nitroaniline	0.407	0.433		6.4	
Acenaphthene	1.145	1.174	0.900	2.5	25.0
2,4-Dinitrophenol	0.197	0.238		20.8	
4-Nitrophenol	0.179	0.192		7.3	
Dibenzofuran	1.573	1.629	0.800	3.6	25.0
2,4-Dinitrotoluene	0.457	0.484	0.200	5.9	25.0
Diethylphthalate	1.350	1.437		6.4	
4-Chlorophenyl-phenylether	0.652	0.676	0.400	3.7	25.0
Fluorene	1.194	1.283	0.900	7.4	25.0

All other compounds must meet a minimum RRF of 0.010.

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL PITTSBURGH Contract:

Lab Code: STL PIT Case No.: SAS No.: SDG No.: C0J200201

Instrument ID: 721 Calibration Date: 10/26/00 Time: 1507

Lab File ID: D1026CC3 Init. Calib. Date(s): 10/24/00 10/24/00

EPA Sample No.(SSTD050##): SSTD50 Init. Calib. Times: 1329 1557

GC Column: ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
4-Nitroaniline	0.404	0.433		7.2		
4,6-Dinitro-2-methylphenol	0.153	0.178		16.3		
N-Nitrosodiphenylamine (1)	0.543	0.561		3.3		
4-Bromophenyl-phenylether	0.228	0.235	0.100	3.1	25.0	
Hexachlorobenzene	0.267	0.277	0.100	3.7	25.0	
Pentachlorophenol	0.132	0.166	0.050	25.8	25.0	<-
Phenanthrene	0.982	1.008	0.700	2.6	25.0	
Anthracene	0.994	1.059	0.700	6.5	25.0	
Carbazole	0.929	0.988		6.4		
Di-n-Butylphthalate	1.314	1.381		5.1		
Fluoranthene	1.047	1.150	0.600	9.8	25.0	
Pyrene	1.201	1.151	0.600	-4.2	25.0	
Butylbenzylphthalate	0.638	0.614		-3.8		
3,3'-Dichlorobenzidine	0.423	0.463		9.4		
Benzo(a)Anthracene	1.071	1.088	0.800	1.6	25.0	
Chrysene	0.976	0.977	0.700	0.1	25.0	
bis(2-ethylhexyl)Phthalate	0.881	0.866		-1.7		
Di-n-octylphthalate	1.724	1.637		-5.0		
Benzo(b)fluoranthene	1.321	1.243	0.700	-5.9	25.0	
Benzo(k)fluoranthene	1.112	1.157	0.700	4.0	25.0	
Benzo(a)pyrene	1.104	1.098	0.700	-0.5	25.0	
Indeno(1,2,3-cd)pyrene	1.123	1.069	0.500	-4.8	25.0	
Dibenz(a,h)anthracene	1.129	1.119	0.400	-0.9	25.0	
Benzo(g,h,i)perylene	1.155	1.104	0.500	-4.4	25.0	
Benzaldehyde	0.672	0.876		30.4		
Acetophenone	1.643	1.780		8.3		
Caprolactam	0.112	0.122		8.9		
1,1'-Biphenyl	1.424	1.468		3.1		
Atrazine	0.206	0.201		-2.4		
Nitrobenzene-d5	0.370	0.395	0.200	6.8	25.0	
2-Fluorobiphenyl	1.345	1.408	0.700	4.7	25.0	
Terphenyl-d14	0.964	0.971	0.500	0.7	25.0	
Phenol-d5	1.522	1.746	0.800	14.7	25.0	
2-Fluorophenol	1.412	1.447	0.600	2.5	25.0	
2,4,6-Tribromophenol	0.158	0.172		8.9		
2-Chlorophenol-d4	1.310	1.424	0.800	8.7	25.0	
1,2-Dichlorobenzene-d4	0.887	0.971	0.400	9.5	25.0	

(1) Cannot be separated from Diphenylamine

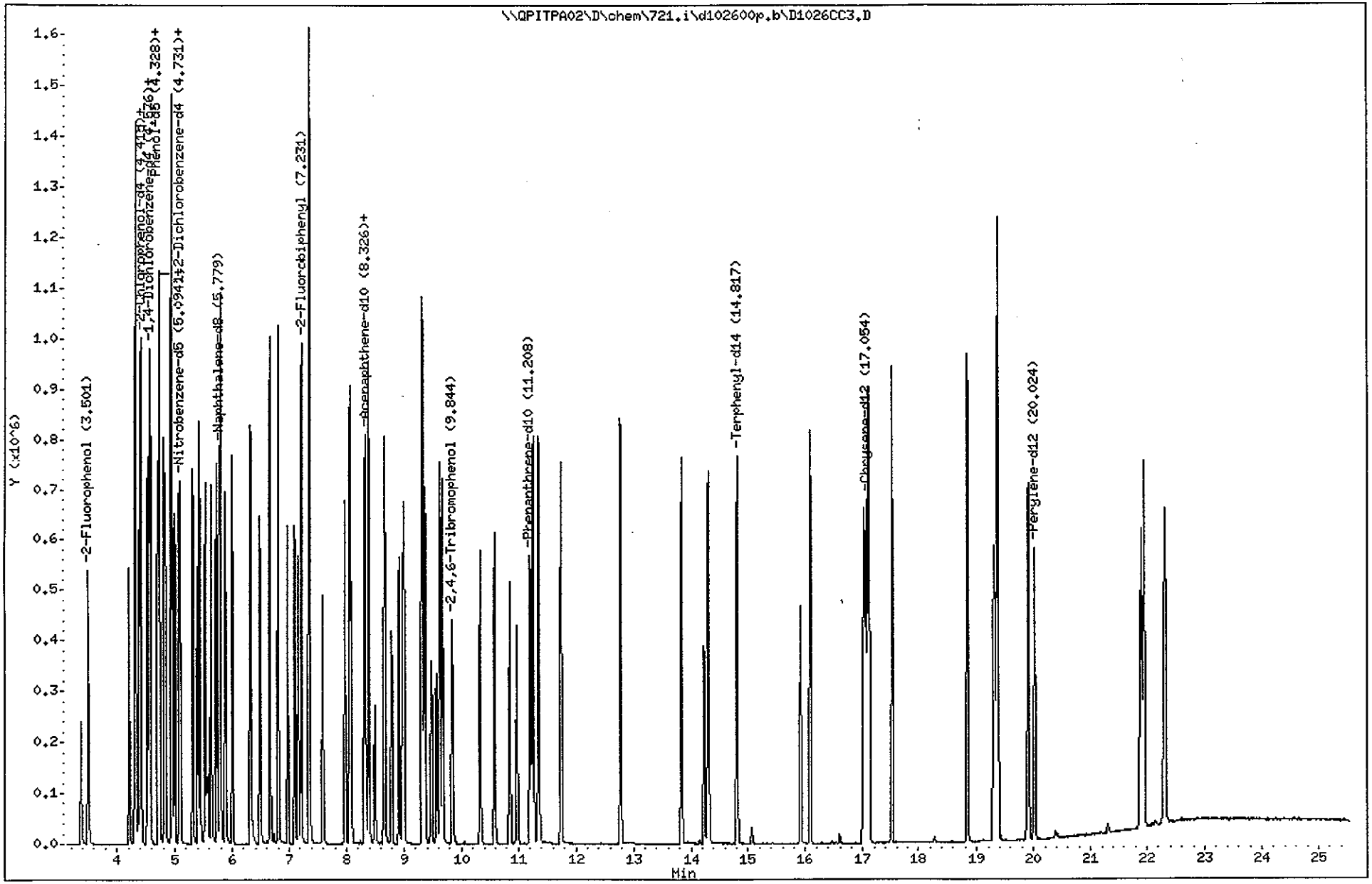
All other compounds must meet a minimum RRF of 0.010.

Data File: \\QPITPA02\D\chem\721.i\d102600p.b\D1026CC3.D
Date : 26-OCT-2000 15:07
Client ID: SSTD50
Sample Info: SSTD050 (25ug/ml) 77-03-1 8270/clp/625

Instrument: 721.i

Operator: 001562, DLF
Column diameter: 0.25

Column phase:



STL-Pittsburgh

Semivolatile REPORT CLP3.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026CC3.D
Lab Smp Id: sstd50 Client Smp ID: SSTD50
Inj Date : 26-OCT-2000 15:07
Operator : 001562, DLF Inst ID: 721.i
Smp Info : SSTD050 (25ug/ml) 77-03-1 8270/clp/625
Misc Info : sstd50,d102600p.b,clp.m,1-all.sub,2
Comment :
Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
Meth Date : 26-Oct-2000 15:44 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 15:57 Cal File: D1024CC5.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-26-00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	4.562	4.562	(1.000)	131693	40.0000	
* 2 Naphthalene-d8	136	5.779	5.779	(1.000)	513728	40.0000	
* 3 Acenaphthene-d10	164	8.332	8.332	(1.000)	255228	40.0000	
* 4 Phenanthrene-d10	188	11.208	11.208	(1.000)	452256	40.0000	
* 5 Chrysene-d12	240	17.054	17.054	(1.000)	443796	40.0000	
* 6 Perylene-d12	264	20.023	20.023	(1.000)	405513	40.0000	
191 Benzaldehyde	77	4.213	4.213	(0.923)	144200	50.0000	65.176
7 Phenol	94	4.327	4.327	(0.948)	279759	50.0000	55.221
8 Bis(2-chloroethyl)ether	93	4.388	4.388	(0.962)	226063	50.0000	53.985
9 2-Chlorophenol	128	4.421	4.421	(0.969)	243049	50.0000	52.036
10 1,3-Dichlorobenzene	146	4.536	4.536	(0.994)	254144	50.0000	51.364
11 1,4-Dichlorobenzene	146	4.576	4.576	(1.003)	257194	50.0000	52.445
12 1,2-Dichlorobenzene	146	4.737	4.737	(1.038)	234868	50.0000	53.257
189 Benzyl Alcohol	108	4.704	4.704	(1.031)	166364	50.0000	56.863
13 2-Methylphenol	108	4.818	4.818	(1.056)	203582	50.0000	53.205
14 2,2'-oxybis(1-Chloropropane)	45	4.838	4.838	(1.060)	308802	50.0000	56.955
192 Acetophenone	105	4.945	4.945	(1.084)	292941	50.0000	54.177
15 4-Methylphenol	108	4.939	4.939	(1.082)	199040	50.0000	55.584
16 N-Nitroso-di-n-propylamine	70	4.966	4.966	(1.088)	167390	50.0000	55.088
17 Hexachloroethane	117	5.006	5.006	(1.097)	102468	50.0000	51.646
18 Nitrobenzene	77	5.093	5.093	(0.881)	236219	50.0000	52.756
19 Isophorone	82	5.315	5.315	(0.920)	435625	50.0000	51.947
20 2-Nitrophenol	139	5.402	5.402	(0.935)	146587	50.0000	50.867
21 2,4-Dimethylphenol	107	5.436	5.436	(0.941)	212274	50.0000	51.122
22 Bis(2-chloroethoxy)methane	93	5.537	5.537	(0.958)	264624	50.0000	53.298
190 Benzoic acid	122	5.584	5.584	(0.966)	94752	50.0000	105.47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
23	2,4-Dichlorophenol	162	5.638	5.638	(0.976)	191824	50.0000	51.539
24	1,2,4-Trichlorobenzene	180	5.732	5.732	(0.992)	197722	50.0000	50.319
25	Naphthalene	128	5.806	5.806	(1.005)	662029	50.0000	52.127
26	4-Chloroaniline	127	5.886	5.886	(1.019)	286377	50.0000	51.766
193	Caprolactam	113	6.323	6.323	(1.094)	78113	50.0000	54.056
27	Hexachlorobutadiene	225	6.007	6.007	(1.040)	113876	50.0000	49.058
28	4-Chloro-3-Methylphenol	107	6.484	6.484	(1.122)	195523	50.0000	53.025
29	2-Methylnaphthalene	142	6.659	6.659	(1.152)	411573	50.0000	53.597
30	Hexachlorocyclopentadiene	237	6.981	6.981	(0.838)	142511	50.0000	48.340
31	2,4,6-Trichlorophenol	196	7.102	7.102	(0.852)	138644	50.0000	49.886
32	2,4,5-Trichlorophenol	196	7.163	7.163	(0.860)	150942	50.0000	51.307
194	1,1'-Biphenyl	154	7.364	7.364	(0.884)	468273	50.0000	51.542
33	2-Chloronaphthalene	162	7.371	7.371	(0.885)	364441	50.0000	51.163
34	2-Nitroaniline	65	7.600	7.600	(0.912)	130981	50.0000	52.434
35	Dimethylphthalate	163	7.983	7.983	(0.958)	456594	50.0000	51.464
36	Acenaphthylene	152	8.063	8.063	(0.968)	619594	50.0000	51.736
37	2,6-Dinitrotoluene	165	8.090	8.090	(0.971)	114034	50.0000	52.460
38	3-Nitroaniline	138	8.319	8.319	(0.998)	138056	50.0000	53.212
39	Acenaphthene	153	8.392	8.392	(1.007)	374636	50.0000	51.292
40	2,4-Dinitrophenol	184	8.500	8.500	(1.020)	76045	50.0000	60.378
41	4-Nitrophenol	109	8.661	8.661	(1.040)	61396	50.0000	53.810
42	Dibenzofuran	168	8.681	8.681	(1.042)	519692	50.0000	51.792
43	2,4-Dinitrotoluene	165	8.796	8.796	(1.056)	154536	50.0000	53.017
44	Diethylphthalate	149	9.313	9.313	(1.118)	458401	50.0000	53.219
45	4-Chlorophenyl-phenylether	204	9.367	9.367	(1.124)	215730	50.0000	51.815
46	Fluorene	166	9.333	9.333	(1.120)	409309	50.0000	53.721
47	4-Nitroaniline	138	9.488	9.488	(1.139)	138041	50.0000	53.552
48	4,6-Dinitro-2-methylphenol	198	9.568	9.568	(0.854)	100695	50.0000	57.980
49	N-Nitrosodiphenylamine (1)	169	9.629	9.629	(0.859)	317137	50.0000	51.697
50	4-Bromophenyl-phenylether	248	10.334	10.334	(0.922)	132817	50.0000	51.474
51	Hexachlorobenzene	284	10.590	10.590	(0.945)	156653	50.0000	51.942(Q)
195	Atrazine	200	10.865	10.865	(0.969)	113555	50.0000	48.862
53	Pentachlorophenol	266	10.979	10.979	(0.980)	94028	50.0000	62.704
54	Phenanthrene	178	11.262	11.262	(1.005)	570047	50.0000	51.368
55	Anthracene	178	11.356	11.356	(1.013)	598901	50.0000	53.284
56	Carbazole	167	11.745	11.745	(1.048)	558340	50.0000	53.160
57	Di-n-Butylphthalate	149	12.780	12.780	(1.140)	780866	50.0000	52.576
58	Fluoranthene	202	13.842	13.842	(1.235)	649895	50.0000	54.920
59	Pyrene	202	14.312	14.312	(0.839)	638322	50.0000	47.887
60	Butylbenzylphthalate	149	16.093	16.093	(0.944)	340885	50.0000	48.154
61	3,3'-Dichlorobenzidine	252	17.094	17.094	(1.002)	256822	50.0000	54.649
62	Benzo(a)Anthracene	228	17.020	17.020	(0.998)	603756	50.0000	50.793
63	Chrysene	228	17.114	17.114	(1.004)	541786	50.0000	50.061
64	bis(2-ethylhexyl)Phthalate	149	17.517	17.517	(1.027)	480441	50.0000	49.147
65	Di-n-octylphthalate	149	18.834	18.834	(0.941)	829897	50.0000	47.487
66	Benzo(b)fluoranthene	252	19.304	19.304	(0.964)	629879	50.0000	47.053
67	Benzo(k)fluoranthene	252	19.358	19.358	(0.967)	586435	50.0000	52.008

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
	68 Benzo(a)pyrene	252	19.916	19.916	(0.995)	556763	50.0000	49.774
	69 Indeno(1,2,3-cd)pyrene	276	21.898	21.898	(1.094)	541910	50.0000	47.595
	70 Dibenz(a,h)anthracene	278	21.952	21.952	(1.096)	567170	50.0000	49.571
	71 Benzo(g,h,i)perylene	276	22.315	22.315	(1.114)	559822	50.0000	47.820
$	72 Nitrobenzene-d5	82	5.080	5.080	(0.879)	253502	50.0000	53.316
$	73 2-Fluorobiphenyl	172	7.230	7.230	(0.868)	449147	50.0000	52.319
$	74 Terphenyl-d14	244	14.816	14.816	(0.869)	538841	50.0000	50.357
$	75 Phenol-d5	99	4.314	4.314	(0.946)	287379	50.0000	57.358
$	76 2-Fluorophenol	112	3.501	3.501	(0.767)	238279	50.0000	51.243
$	77 2,4,6-Tribromophenol	330	9.844	9.844	(0.878)	97359	50.0000	54.525
$	78 2-Chlorophenol-d4	132	4.408	4.408	(0.966)	234355	50.0000	54.330
$	79 1,2-Dichlorobenzene-d4	152	4.724	4.724	(1.035)	159794	50.0000	54.715

QC Flag Legend

Q - Qualifier signal failed the ratio test.

GC/MS SEMIVOLATILE
QC DATA

Data File: \\QPITPA02\D\chem\721.i\d102400c\D1024DFT.D

Date : 24-OCT-2000 11:27

Client ID: DFTPP

Instrument: 721.i

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

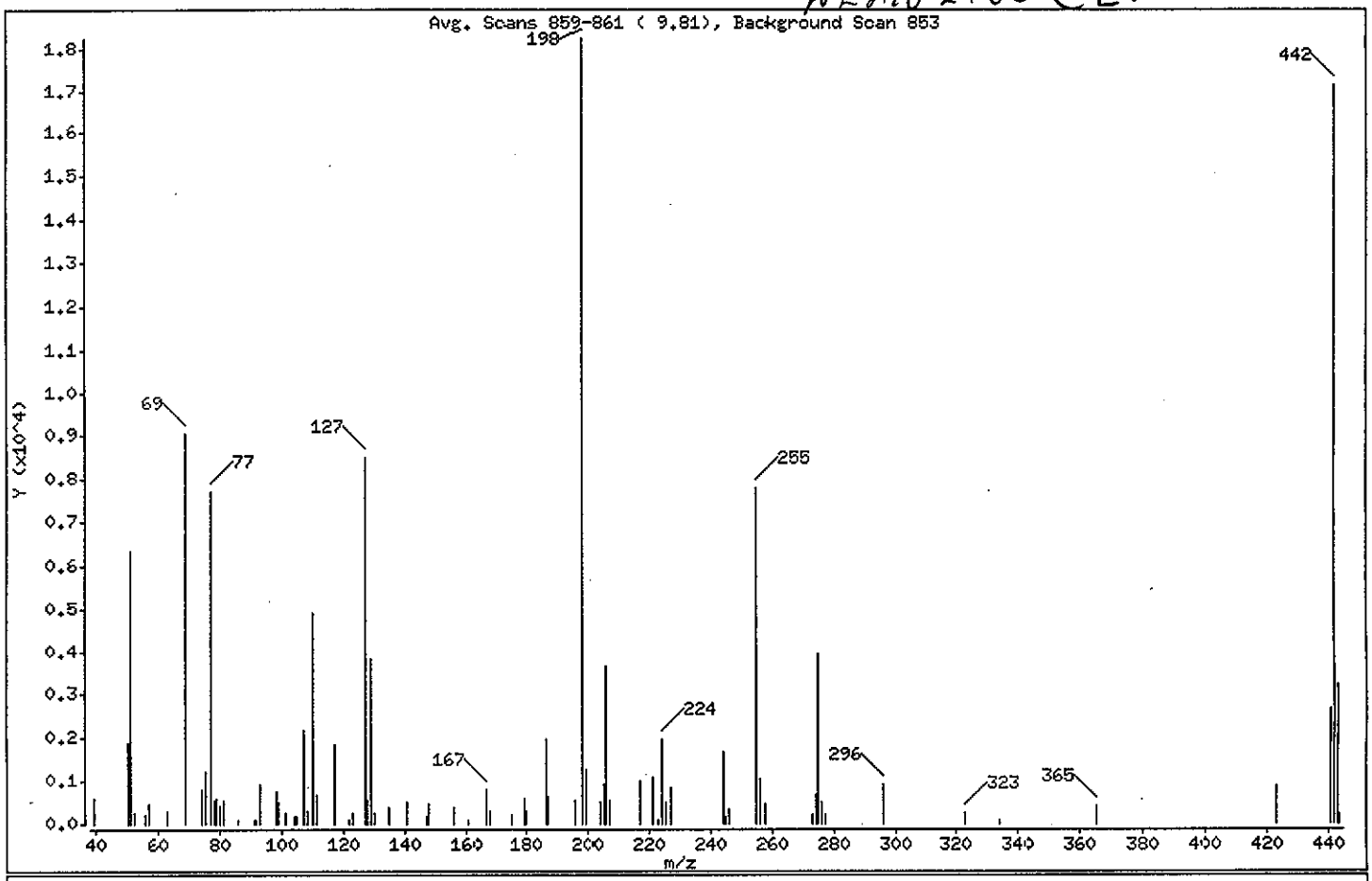
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

WZ 10-24-00 CLP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	34.62
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.65
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	46.58
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 30.00% of mass 198	21.63
365	Greater than 0.75% of mass 198	2.19
441	Present, but less than mass 443	14.76
442	40.00 - 110.00% of mass 198	94.07
443	15.00 - 24.00% of mass 442	17.68 (18.80)

Date : 24-OCT-2000 11:27

Client ID: DFTPP Instrument: 721.i

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

Operator: 001562, DLF

Column phase: Column diameter: 0.25

Data File: D1024DFT.D

Spectrum: Avg. Scans 859-861 (9.81), Background Scan 853

Location of Maximum: 198.00

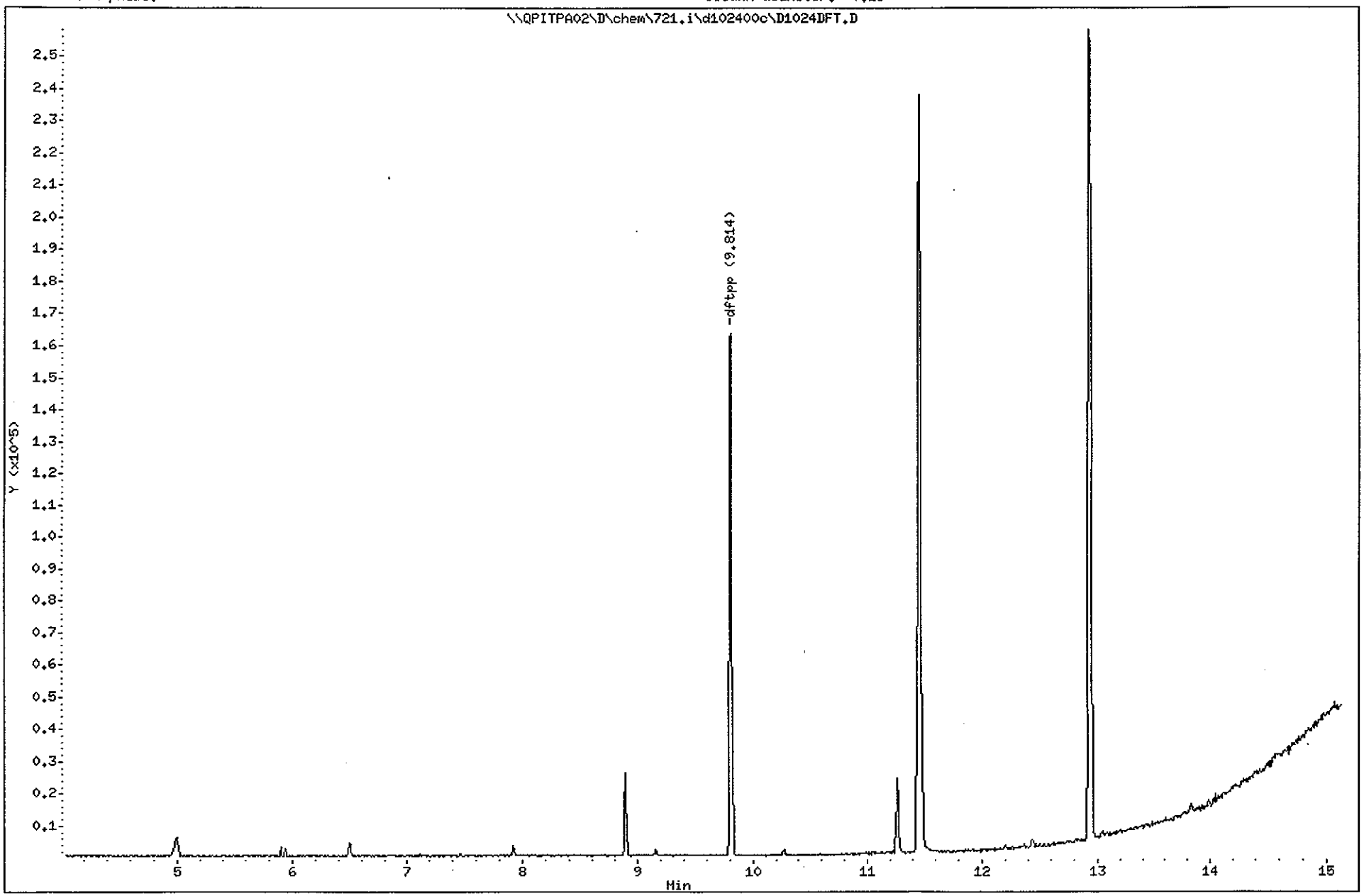
Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	583	101.00	261	168.00	285	246.00	325
50.00	1873	104.00	186	175.00	225	255.00	7788
51.00	6316	105.00	167	179.00	597	256.00	1055
52.00	261	107.00	2179	180.00	299	258.00	455
56.00	208	108.00	296	186.00	1974	273.00	202
57.00	482	110.00	4906	187.00	625	274.00	655
63.00	289	111.00	681	196.00	551	275.00	3946
69.00	9057	117.00	1863	198.00	18240	276.00	523
74.00	812	122.00	83	199.00	1270	277.00	223
75.00	1197	123.00	234	204.00	516	296.00	919
77.00	7720	127.00	8498	205.00	909	323.00	248
78.00	548	128.00	549	206.00	3657	334.00	91
79.00	602	129.00	3817	207.00	543	365.00	400
80.00	416	130.00	268	217.00	1019	423.00	901
81.00	538	135.00	389	221.00	1089	441.00	2692
86.00	84	141.00	502	223.00	97	442.00	17160
91.00	92	147.00	184	224.00	1980	443.00	3226
92.00	90	148.00	480	225.00	509	444.00	204
93.00	939	156.00	367	227.00	829		
98.00	745	161.00	86	244.00	1690		
99.00	515	167.00	786	245.00	188		

Data File: \\QPITPA02\D\chem\721.i\d102400c\D1024DFT.D
Date : 24-OCT-2000 11:27
Client ID: DFTPP
Sample Info: dftpp (25ug/ml) 194-175-8

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

Column phase:



Data File: \\QPITPA02\D\chem\721.i\d102400p.b\D1024DF2.D

Date : 24-OCT-2000 16:44

Client ID:

Instrument: 721.i

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

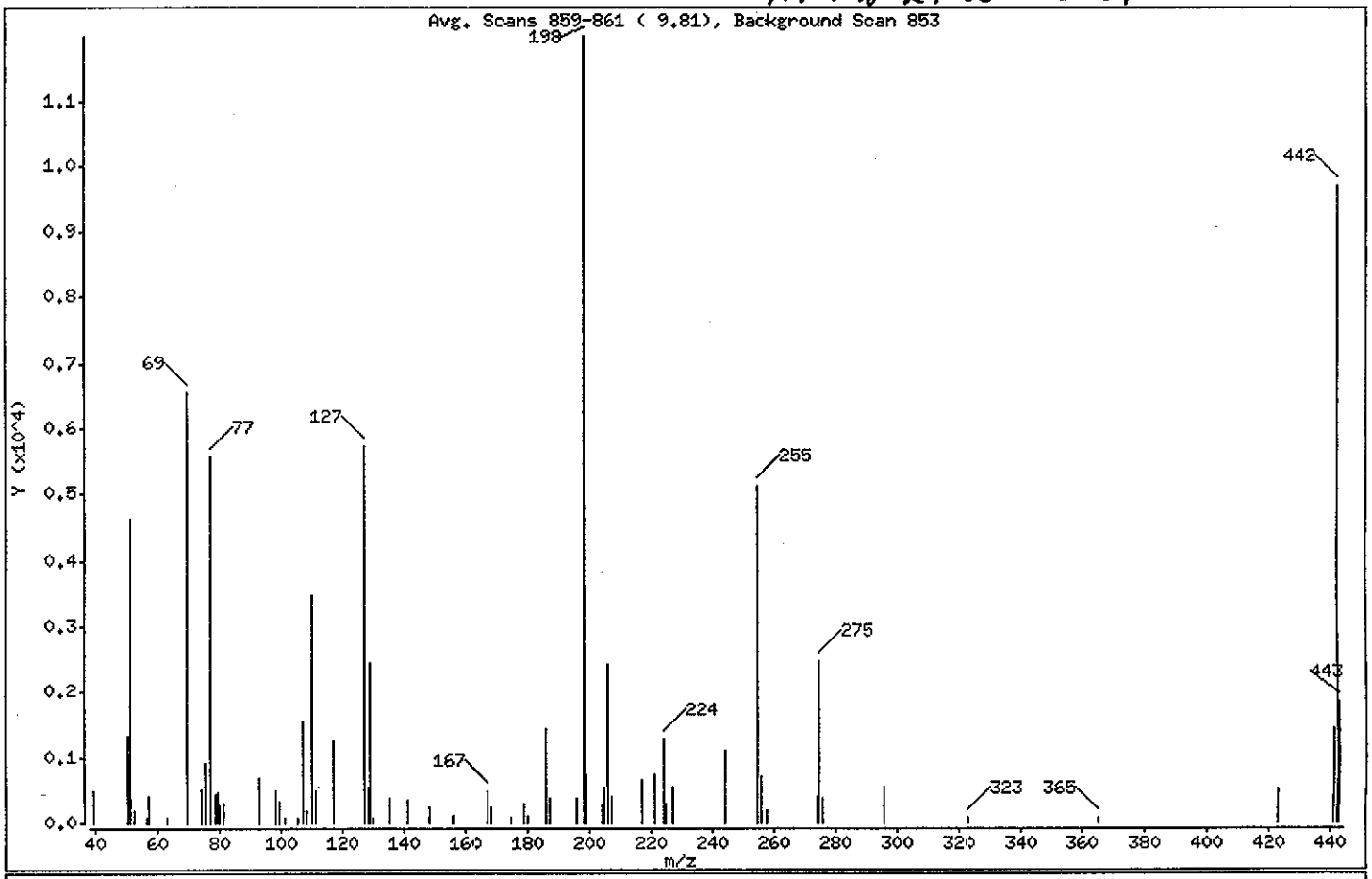
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

DLF 10-24-00 CLP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	38.72
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	54.66
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	47.83
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.29
275	10.00 - 30.00% of mass 198	20.60
365	Greater than 0.75% of mass 198	0.79
441	Present, but less than mass 443	11.86
442	40.00 - 110.00% of mass 198	80.86
443	15.00 - 24.00% of mass 442	15.50 (19.17)

Data File: \\QPITPA02\D\chem\721.i\d102400p.b\D1024DF2.D

Date : 24-OCT-2000 16:44

Client ID:

Instrument: 721.i

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

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

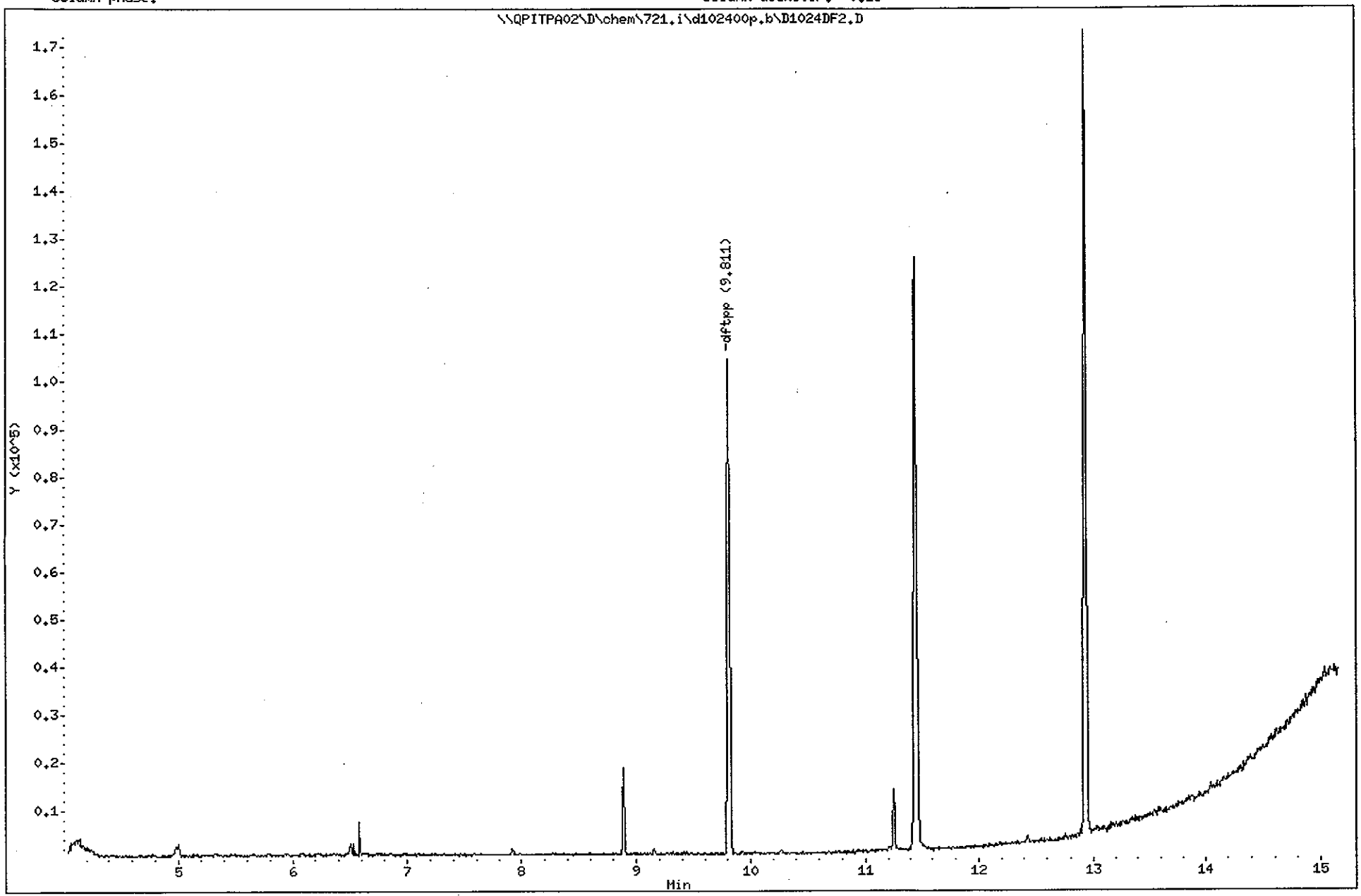
Data File: D1024DF2.D
Spectrum: Avg. Scans 859-861 (9.81), Background Scan 853
Location of Maximum: 198.00
Number of points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	506	99.00	320	168.00	256	227.00	552
50.00	1326	101.00	91	175.00	86	244.00	1114
51.00	4638	105.00	96	179.00	315	255.00	5125
52.00	205	107.00	1540	180.00	101	256.00	710
56.00	88	108.00	206	186.00	1432	258.00	201
57.00	418	110.00	3481	187.00	373	274.00	420
63.00	89	111.00	503	196.00	372	275.00	2468
69.00	6547	117.00	1250	198.00	11978	276.00	391
74.00	533	127.00	5729	199.00	754	296.00	549
75.00	904	128.00	544	204.00	282	323.00	88
77.00	5551	129.00	2463	205.00	558	365.00	95
78.00	437	130.00	94	206.00	2428	423.00	510
79.00	466	135.00	388	207.00	419	441.00	1420
80.00	262	141.00	354	217.00	655	442.00	9685
81.00	291	148.00	240	221.00	750	443.00	1857
93.00	694	156.00	104	224.00	1262		
98.00	503	167.00	505	225.00	314		

Data File: \\QPITPA02\D\chem\721.i\d102400p.b\D1024DF2.D
Date : 24-OCT-2000 16:44
Client ID:
Sample Info: dftpp (25ug/ml) 194-175-8

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

Column phase:



Data File: \\QPITPA02\D\chem\721.i\d102500p.b\D1025DFT.D

Date : 25-OCT-2000 12:53

Client ID:

Instrument: 721.i

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

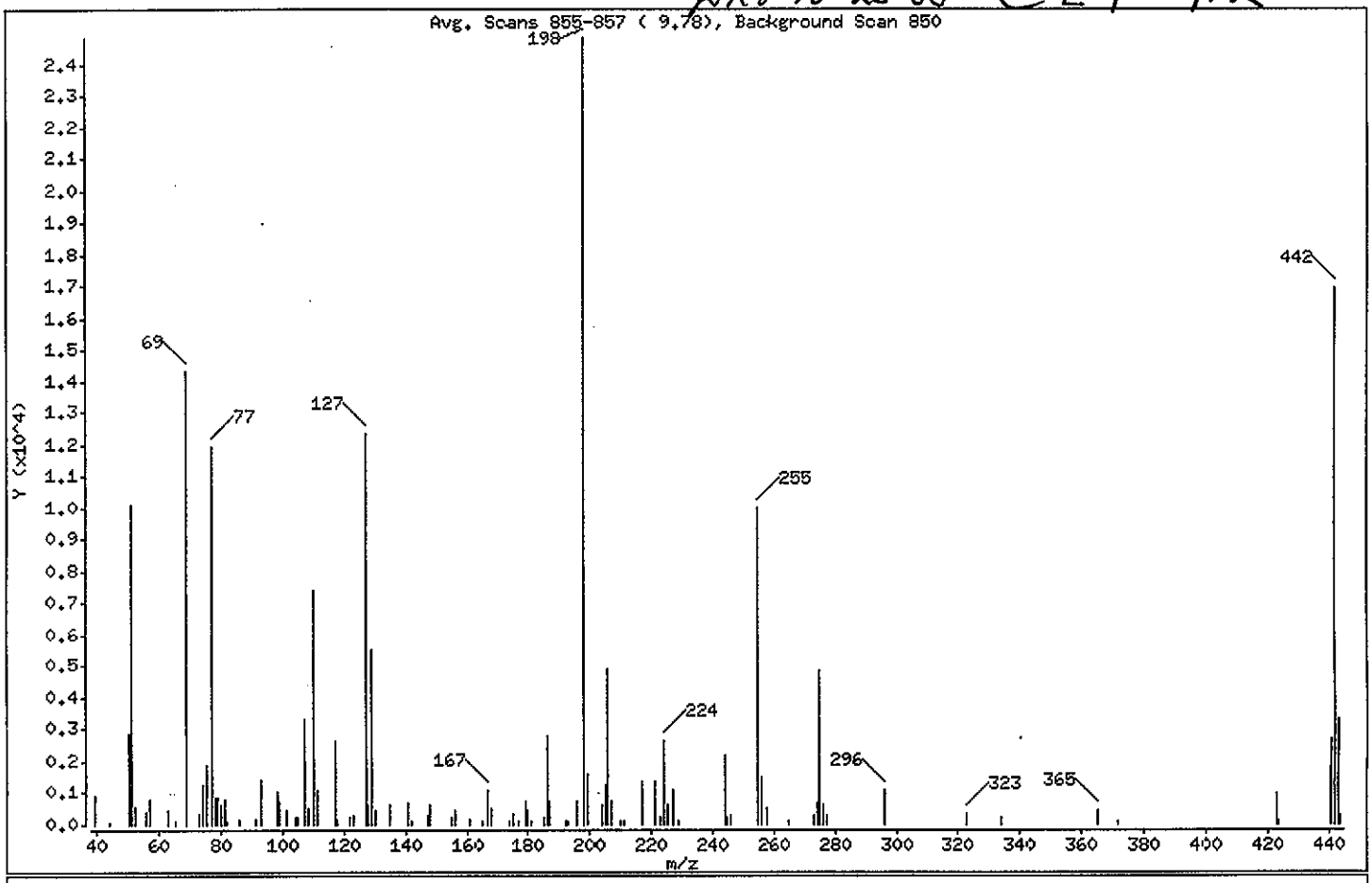
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

DZ 10-25-00 CLP 4.2



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	40.57
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	57.80
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	49.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.40
275	10.00 - 30.00% of mass 198	19.46
365	Greater than 0.75% of mass 198	1.90
441	Present, but less than mass 443	10.90
442	40.00 - 110.00% of mass 198	68.33
443	15.00 - 24.00% of mass 442	13.24 (19.38)

Data File: \\QPITPA02\D\chem\721.i\d102500p.b\D1025DFT.D

Date : 25-OCT-2000 12:53

Client ID:

Instrument: 721.i

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

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

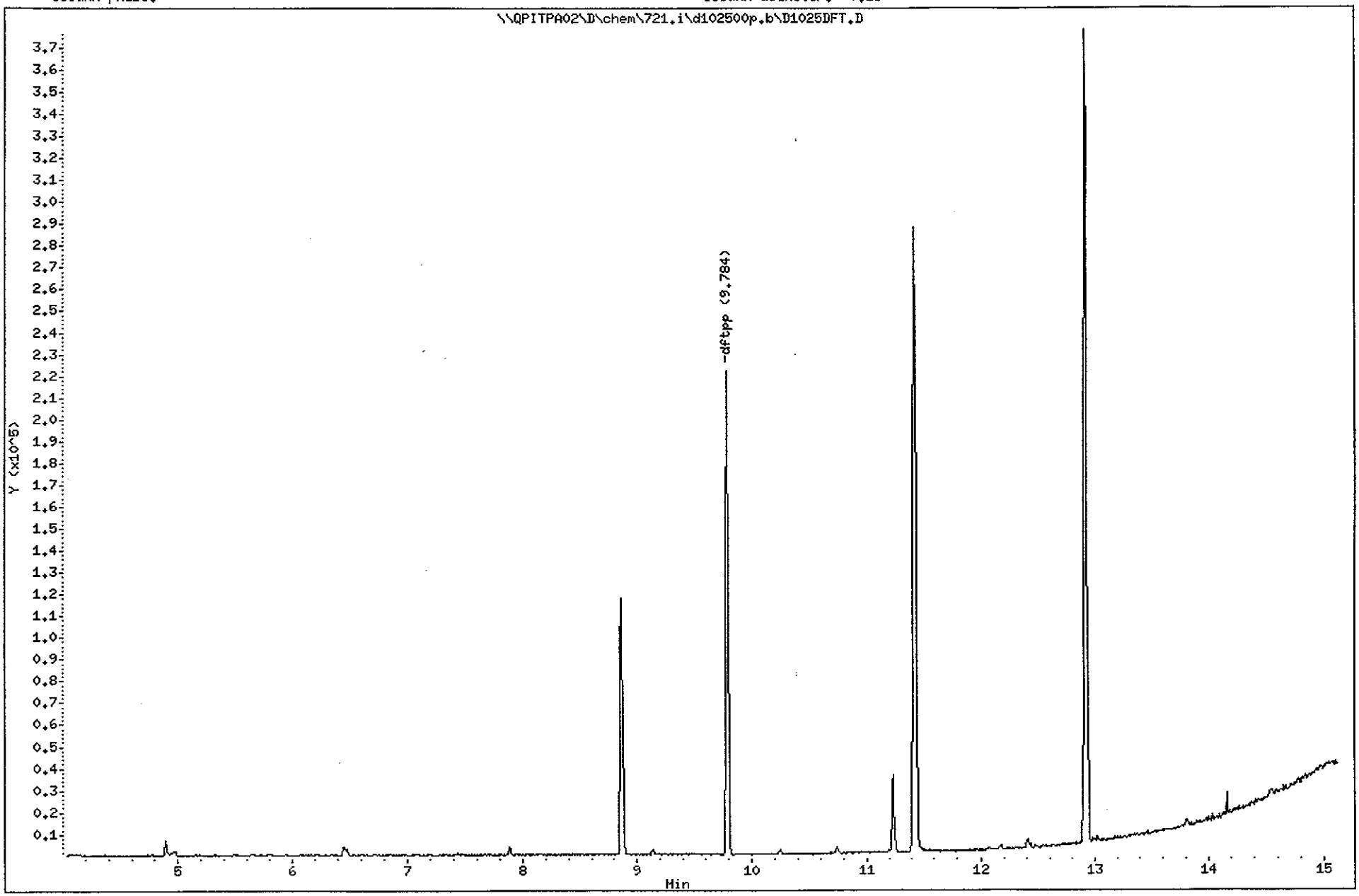
Data File: D1025DFT.D
Spectrum: Avg. Scans 855-857 (9.78), Background Scan 850
Location of Maximum: 198.00
Number of points: 100

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	940	105.00	217	177.00	88	245.00	245
44.00	37	107.00	3287	179.00	750	246.00	299
50.00	2827	108.00	528	180.00	470	255.00	9989
51.00	10079	110.00	7436	181.00	92	256.00	1511
52.00	552	111.00	1081	185.00	236	258.00	531
56.00	372	117.00	2645	186.00	2789	265.00	86
57.00	792	118.00	184	187.00	733	273.00	259
63.00	462	122.00	217	192.00	88	274.00	692
65.00	88	123.00	306	193.00	112	275.00	4836
69.00	14360	127.00	12337	196.00	755	276.00	654
73.00	345	128.00	631	198.00	24840	277.00	288
74.00	1230	129.00	5554	199.00	1591	296.00	1057
75.00	1889	130.00	473	204.00	651	323.00	370
77.00	11957	135.00	610	205.00	1236	334.00	200
78.00	863	141.00	670	206.00	4899	365.00	472
79.00	838	142.00	89	207.00	746	372.00	93
80.00	655	147.00	264	210.00	91	423.00	964
81.00	825	148.00	605	211.00	91	424.00	104
82.00	86	155.00	243	217.00	1363	441.00	2708
86.00	178	156.00	462	221.00	1383	442.00	16976
91.00	199	161.00	182	223.00	250	443.00	3290
93.00	1447	165.00	97	224.00	2623	444.00	259
98.00	1030	167.00	1071	225.00	642		
99.00	762	168.00	515	227.00	1057		
101.00	463	174.00	86	229.00	108		
104.00	218	175.00	370	244.00	2167		

Data File: \\QPITPA02\D\chem\721.i\d102500p.b\D1025DFT.D
Date : 25-OCT-2000 12:53
Client ID:
Sample Info: dftpp (25ug/ml) 194-175-8

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

Column phase:



Data File: \\QPITPA02\D\chem\721.i\d102600p.b\D1026DF2.D

Date : 26-OCT-2000 14:46

Client ID:

Instrument: 721.i

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

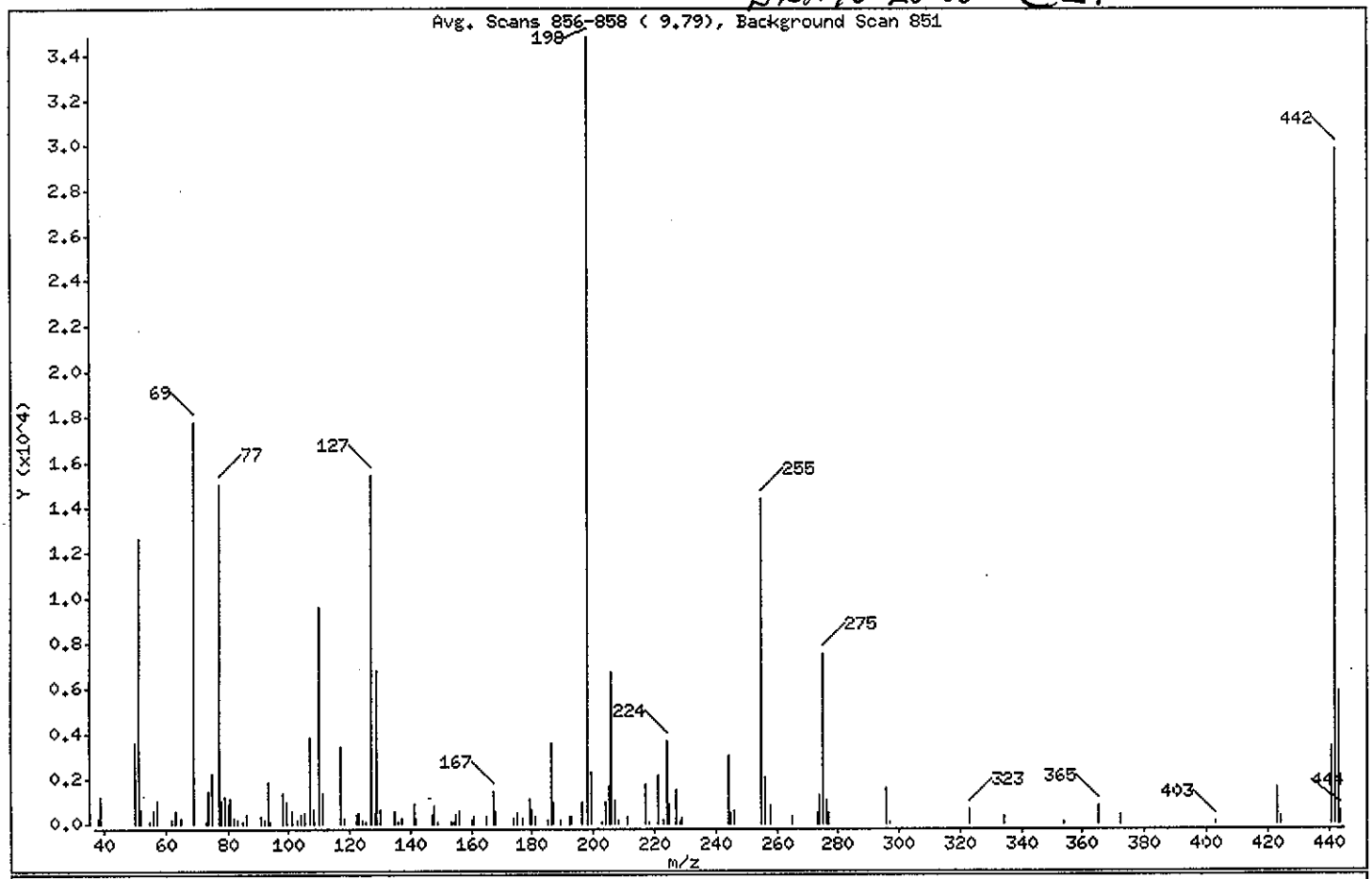
Operator: 001562, DLF

Column phase:

Column diameter: 0.25

1 dftpp

DLJ 10-26-00 - CLP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	36.34
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.03
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	44.42
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.59
275	10.00 - 30.00% of mass 198	21.67
365	Greater than 0.75% of mass 198	2.19
441	Present, but less than mass 443	9.98
442	40.00 - 110.00% of mass 198	85.73
443	15.00 - 24.00% of mass 442	16.87 (19.68)

Data File: \\QPITPA02\D\chem\721.i\d102600p.b\D1026DF2.D

Date : 26-OCT-2000 14:46

Client ID:

Instrument: 721.i

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

Operator: 001562, DLF

Column phase:

Column diameter: 0.25

Data File: D1026DF2.D
Spectrum: Avg. Scans 856-858 (9.79), Background Scan 851
Location of Maximum: 198.00
Number of points: 122

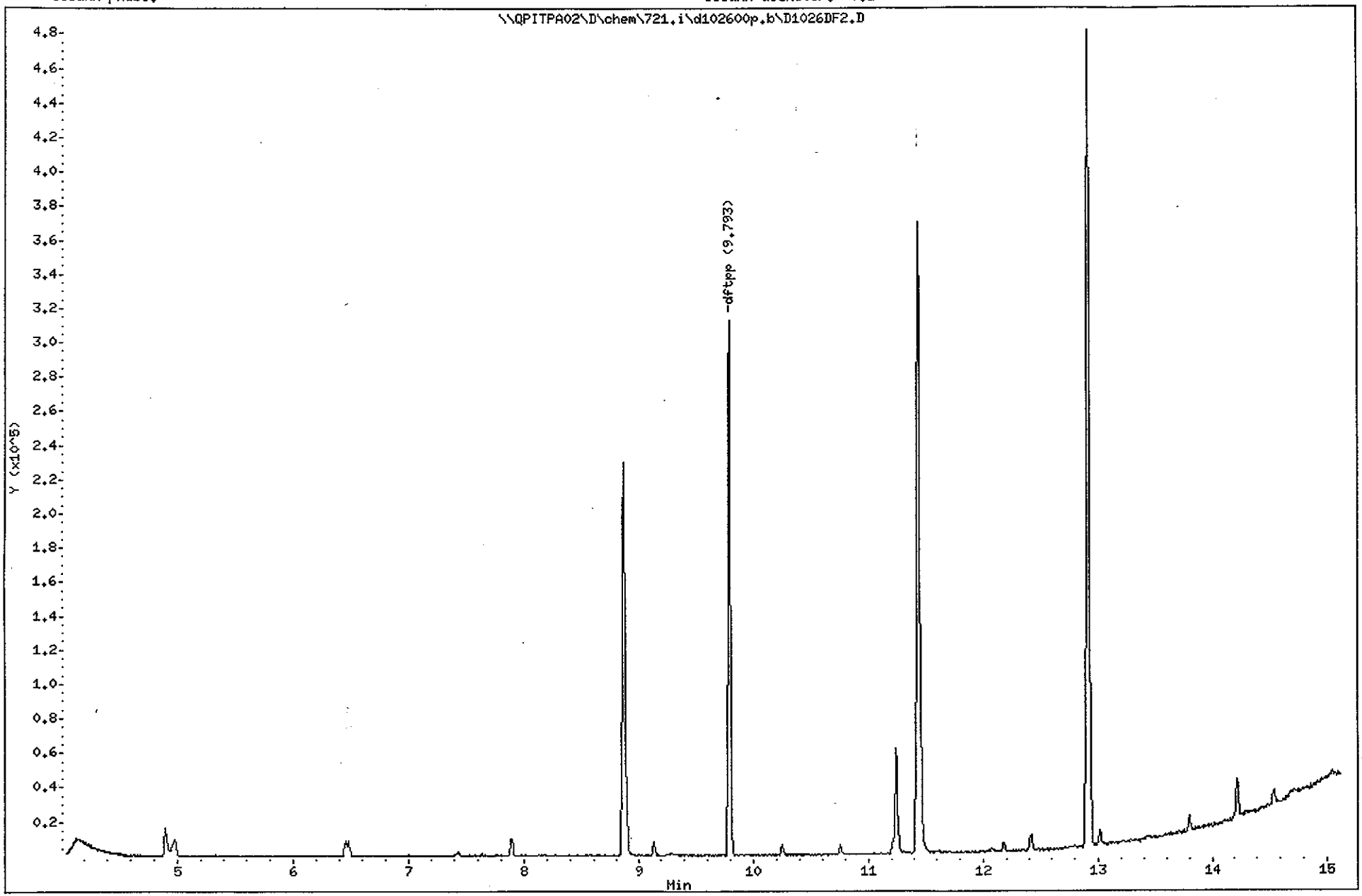
m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	209	103.00	196	165.00	319	227.00	1546
39.00	1205	104.00	436	167.00	1427	228.00	89
50.00	3562	105.00	440	168.00	595	229.00	221
51.00	12644	107.00	3836	174.00	207	244.00	3077
52.00	670	108.00	656	175.00	487	245.00	457
55.00	89	110.00	9565	177.00	259	246.00	592
56.00	523	111.00	1329	179.00	1103	255.00	14431
57.00	1000	117.00	3435	180.00	631	256.00	2101
62.00	192	118.00	207	181.00	340	258.00	790
63.00	559	122.00	378	185.00	136	265.00	295
65.00	216	123.00	509	186.00	3565	273.00	451
69.00	17752	124.00	186	187.00	980	274.00	1268
73.00	83	125.00	108	189.00	186	275.00	7539
74.00	1468	127.00	15454	192.00	337	276.00	1014
75.00	2238	128.00	483	193.00	325	277.00	517
77.00	15026	129.00	6834	196.00	984	296.00	1630
78.00	1065	130.00	640	198.00	34784	297.00	103
79.00	1223	135.00	546	199.00	2294	323.00	662
80.00	871	136.00	87	203.00	85	334.00	357
81.00	1120	137.00	202	204.00	950	354.00	87
82.00	228	141.00	865	205.00	1663	365.00	762
83.00	174	142.00	211	206.00	6698	372.00	371
85.00	89	147.00	435	207.00	1037	403.00	97
86.00	399	148.00	822	208.00	183	423.00	1563
91.00	299	149.00	90	211.00	314	424.00	307
92.00	124	153.00	94	217.00	1773	441.00	3473
93.00	1823	154.00	84	218.00	96	442.00	29824
94.00	85	155.00	434	221.00	2138	443.00	5870
98.00	1357	156.00	573	223.00	146	444.00	535
99.00	991	160.00	184	224.00	3671		
101.00	524	161.00	336	225.00	918		

Data File: \\QPITPA02\D\chem\721.i\d102600p.b\D1026DF2.D
Date : 26-OCT-2000 14:46
Client ID:
Sample Info: dftpp (25ug/ml) 194-175-8

Instrument: 721.i

Operator: 001562, DLF
Column diameter: 0.25

Column phase:



CUMMINGS-RITER CONSULTANTS INC
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J210000 166
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNKK01AA Date Extracted:10/22/00
Dilution factor: 1 Date Analyzed: 10/25/00
Moisture %:NA

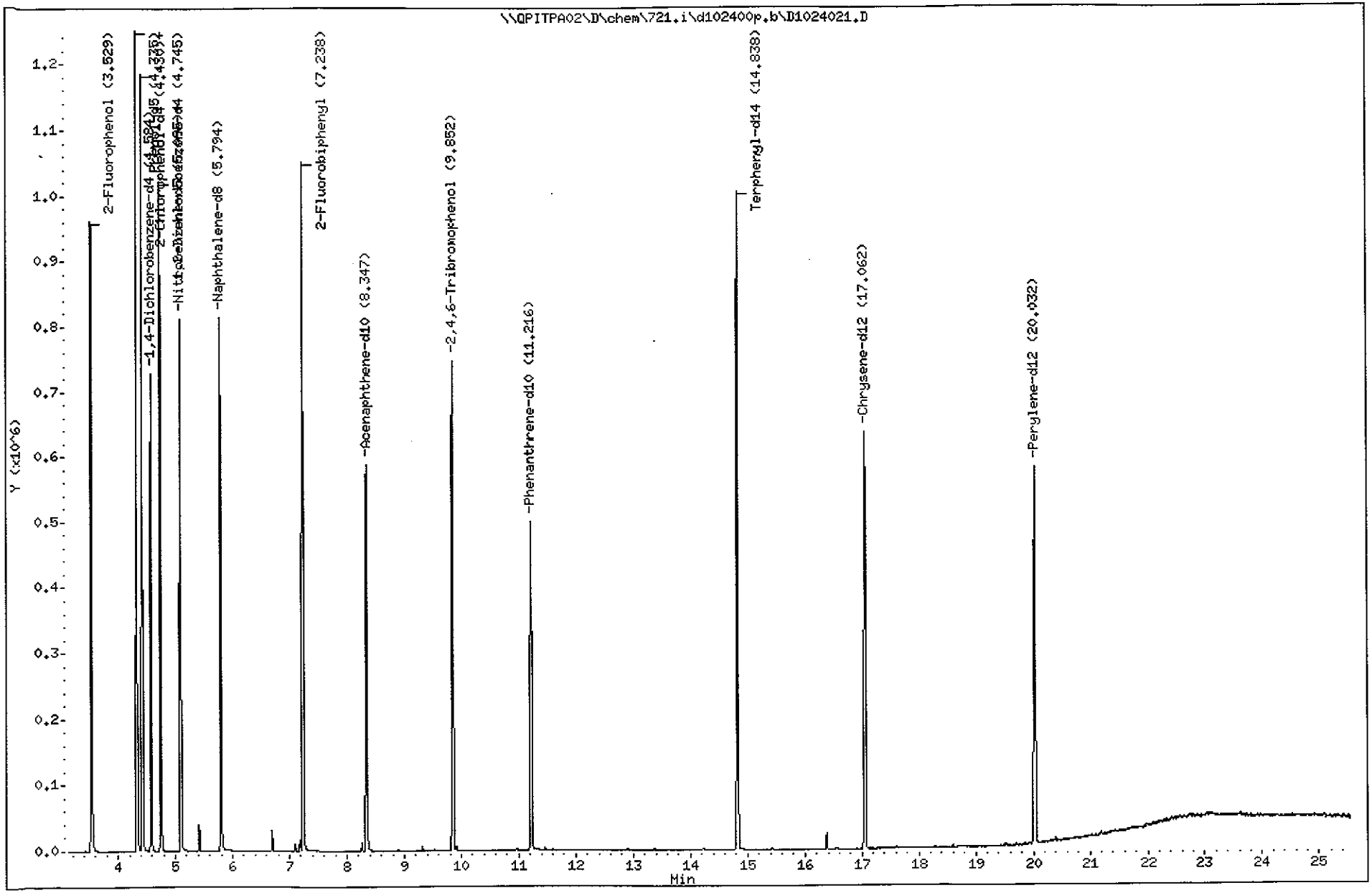
QC Batch: 0295166

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U

Data File: \\QPITPA02\D\chem\721.i\d102400p.b\D1024021.D
Date : 25-OCT-2000 02:58
Client ID: INTRA-LAB BLANK
Sample Info: c0j200201-sblk soil 10/22/00 clp4.2
Volume Injected (uL): 2.0
Column phase:

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



STL-Pittsburgh

Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102400p.b\D1024021.D
Lab Smp Id: DNKK01AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 25-OCT-2000 02:58
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j200201-sblk soil 10/22/00 clp4.2
Misc Info : dnkk01aa,d102400p.b,clp.m,1-4.2.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d102400p.b\clp.m
Meth Date : 25-Oct-2000 11:30 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 17:05 Cal File: D1024CC7.D
Als bottle: 29 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-4.2.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-25-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	4.584	4.580	(1.000)	141302	40.0000	
* 2	Naphthalene-d8	136	5.793	5.796	(1.000)	495702	40.0000	
* 3	Acenaphthene-d10	164	8.346	8.349	(1.000)	218637	40.0000	
* 4	Phenanthrene-d10	188	11.215	11.225	(1.000)	356937	40.0000	
* 5	Chrysene-d12	240	17.061	17.071	(1.000)	454086	40.0000	
* 6	Perylene-d12	264	20.031	20.034	(1.000)	448576	40.0000	
191	Benzaldehyde	77	Compound Not Detected.					
7	Phenol	94	Compound Not Detected.					
8	Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9	2-Chlorophenol	128	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192	Acetophenone	105	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
18	Nitrobenzene	77	Compound Not Detected.					
19	Isophorone	82	Compound Not Detected.					
20	2-Nitrophenol	139	Compound Not Detected.					
21	2,4-Dimethylphenol	107	Compound Not Detected.					
22	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
23	2,4-Dichlorophenol	162	Compound Not Detected.					
25	Naphthalene	128	Compound Not Detected.					
26	4-Chloroaniline	127	Compound Not Detected.					
193	Caprolactam	113	Compound Not Detected.					
27	Hexachlorobutadiene	224	Compound Not Detected.					
28	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
29	2-Methylnaphthalene	142	Compound Not Detected.					
30	Hexachlorocyclopentadiene	236	Compound Not Detected.					
31	2,4,6-Trichlorophenol	196	Compound Not Detected.					
32	2,4,5-Trichlorophenol	196	Compound Not Detected.					
194	1,1'-Biphenyl	154	Compound Not Detected.					
33	2-Chloronaphthalene	162	Compound Not Detected.					
34	2-Nitroaniline	65	Compound Not Detected.					
35	Dimethylphthalate	163	Compound Not Detected.					
36	Acenaphthylene	152	Compound Not Detected.					
37	2,6-Dinitrotoluene	165	Compound Not Detected.					
38	3-Nitroaniline	138	Compound Not Detected.					
39	Acenaphthene	153	Compound Not Detected.					
40	2,4-Dinitrophenol	184	Compound Not Detected.					
41	4-Nitrophenol	109	Compound Not Detected.					
42	Dibenzofuran	168	Compound Not Detected.					
43	2,4-Dinitrotoluene	165	Compound Not Detected.					
44	Diethylphthalate	149	Compound Not Detected.					
45	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
46	Fluorene	166	Compound Not Detected.					
47	4-Nitroaniline	138	Compound Not Detected.					
48	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
49	N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
50	4-Bromophenyl-phenylether	248	Compound Not Detected.					
51	Hexachlorobenzene	283	Compound Not Detected.					
195	Atrazine	200	Compound Not Detected.					
53	Pentachlorophenol	265	Compound Not Detected.					
54	Phenanthrene	178	Compound Not Detected.					
55	Anthracene	178	Compound Not Detected.					
56	Carbazole	167	Compound Not Detected.					
57	Di-n-Butylphthalate	149	Compound Not Detected.					
58	Fluoranthene	202	Compound Not Detected.					
59	Pyrene	202	Compound Not Detected.					
60	Butylbenzylphthalate	149	Compound Not Detected.					
61	3,3'-Dichlorobenzidine	252	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
62	Benzo(a)Anthracene	228	Compound Not Detected.					
63	Chrysene	228	Compound Not Detected.					
64	bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
65	Di-n-octylphthalate	149	Compound Not Detected.					
66	Benzo(b)fluoranthene	252	Compound Not Detected.					
67	Benzo(k)fluoranthene	252	Compound Not Detected.					
68	Benzo(a)pyrene	252	Compound Not Detected.					
69	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
70	Dibenz(a,h)anthracene	278	Compound Not Detected.					
71	Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 72	Nitrobenzene-d5	82	5.094	5.097	(0.879)	294093	59.8993	998.32
$ 73	2-Fluorobiphenyl	172	7.238	7.240	(0.867)	493724	63.7471	1062.4
$ 74	Terphenyl-d14	244	14.837	14.826	(0.870)	717069	62.9565	1049.3
$ 75	Phenol-d5	99	4.335	4.331	(0.946)	525665	87.9479	1465.8
$ 76	2-Fluorophenol	112	3.535	3.525	(0.771)	455018	85.7728	1429.5
$ 77	2,4,6-Tribromophenol	330	9.851	9.854	(0.878)	170525	121.051	2017.5
$ 78	2-Chlorophenol-d4	132	4.429	4.425	(0.966)	455927	90.1582	1502.6
$ 79	1,2-Dichlorobenzene-d4	152	4.745	4.741	(1.035)	197353	57.6113	960.19

CUMMINGS-RITER CONSULTANTS INC
METHOD BLANK COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J250000 576
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00
Work Order: DNQ8E1AA Date Extracted:10/25/00
Dilution factor: 1 Date Analyzed: 10/26/00
Moisture %:NA

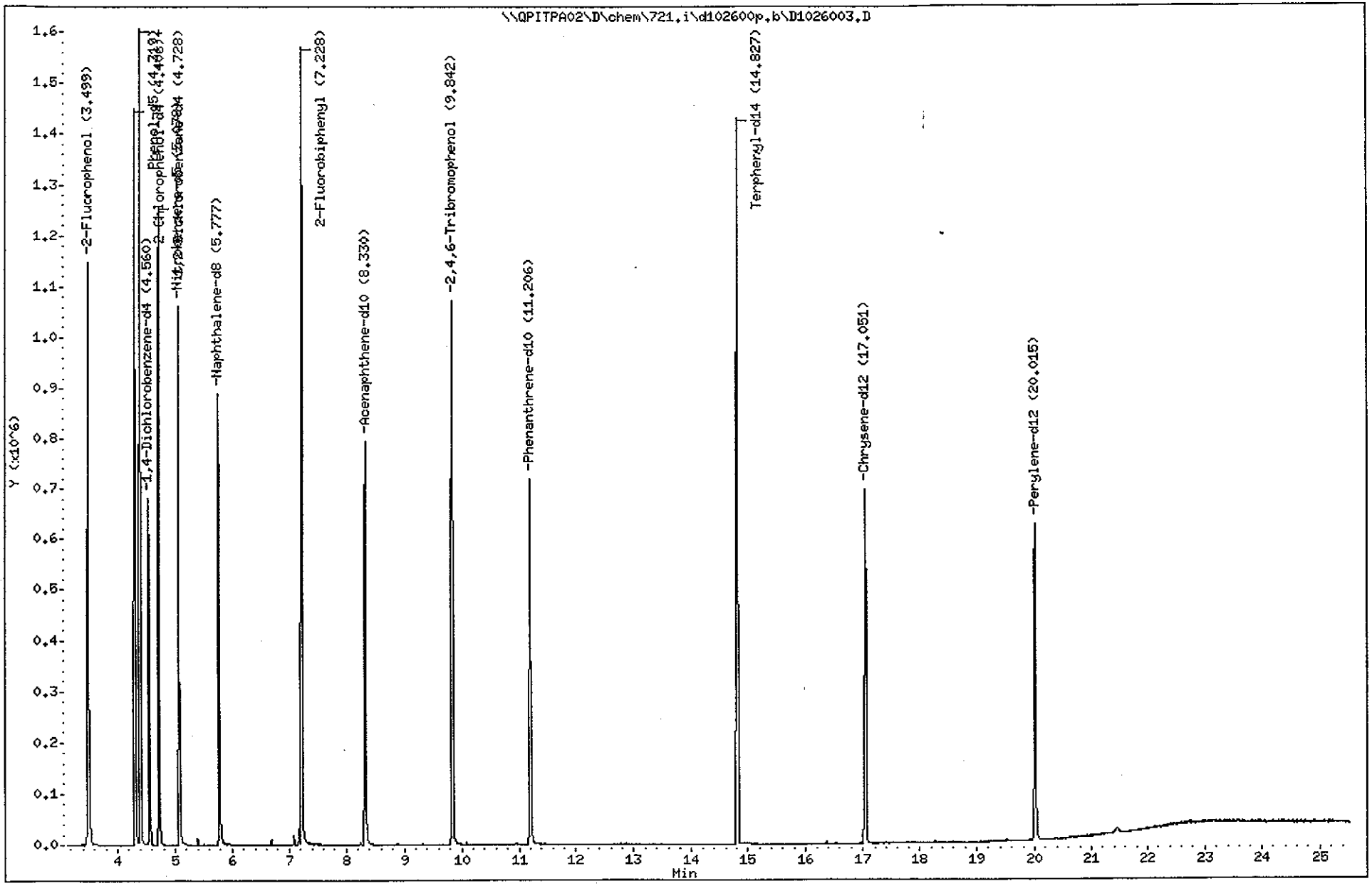
QC Batch: 0299576

Client Sample Id: INTRA-LAB BLANK

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U

Data File: \\QPITPA02\D\chem\721.i\d102600p.b\D1026003.D
Date : 26-OCT-2000 15:40
Client ID: INTRA-LAB BLANK
Sample Info: c0j240227-sblk soil 10/25/00 clp4.2
Volume Injected (uL): 2.0
Column phase:

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



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Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026003.D
Lab Smp Id: DNQ8E1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 26-OCT-2000 15:40
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j240227-sblk soil 10/25/00 clp4.2
Misc Info : dnq8e1aa,d102600p.b,clp.m,1-4.2.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
Meth Date : 27-Oct-2000 08:24 ferguson Quant Type: ISTD
Cal Date : 26-OCT-2000 15:07 Cal File: D1026CC3.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-4.2.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-27-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.560	4.562	(1.000)	140024	40.0000	
* 2 Naphthalene-d8	136	5.776	5.779	(1.000)	571749	40.0000	
* 3 Acenaphthene-d10	164	8.329	8.332	(1.000)	296023	40.0000	
* 4 Phenanthrene-d10	188	11.205	11.208	(1.000)	528840	40.0000	
* 5 Chrysene-d12	240	17.051	17.054	(1.000)	540617	40.0000	
* 6 Perylene-d12	264	20.014	20.023	(1.000)	484161	40.0000	
191 Benzaldehyde	77	Compound Not Detected.					
7 Phenol	94	Compound Not Detected.					
8 Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9 2-Chlorophenol	128	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192 Acetophenone	105	Compound Not Detected.					
15 4-Methylphenol	108	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
18	Nitrobenzene	77	Compound Not Detected.					
19	Isophorone	82	Compound Not Detected.					
20	2-Nitrophenol	139	Compound Not Detected.					
21	2,4-Dimethylphenol	107	Compound Not Detected.					
22	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
23	2,4-Dichlorophenol	162	Compound Not Detected.					
25	Naphthalene	128	Compound Not Detected.					
26	4-Chloroaniline	127	Compound Not Detected.					
193	Caprolactam	113	Compound Not Detected.					
27	Hexachlorobutadiene	224	Compound Not Detected.					
28	4-Chloro-3-Methylphenol	107	Compound Not Detected.					
29	2-Methylnaphthalene	142	Compound Not Detected.					
30	Hexachlorocyclopentadiene	236	Compound Not Detected.					
31	2,4,6-Trichlorophenol	196	Compound Not Detected.					
32	2,4,5-Trichlorophenol	196	Compound Not Detected.					
194	1,1'-Biphenyl	154	Compound Not Detected.					
33	2-Chloronaphthalene	162	Compound Not Detected.					
34	2-Nitroaniline	65	Compound Not Detected.					
35	Dimethylphthalate	163	Compound Not Detected.					
36	Acenaphthylene	152	Compound Not Detected.					
37	2,6-Dinitrotoluene	165	Compound Not Detected.					
38	3-Nitroaniline	138	Compound Not Detected.					
39	Acenaphthene	153	Compound Not Detected.					
40	2,4-Dinitrophenol	184	Compound Not Detected.					
41	4-Nitrophenol	109	Compound Not Detected.					
42	Dibenzofuran	168	Compound Not Detected.					
43	2,4-Dinitrotoluene	165	Compound Not Detected.					
44	Diethylphthalate	149	Compound Not Detected.					
45	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
46	Fluorene	166	Compound Not Detected.					
47	4-Nitroaniline	138	Compound Not Detected.					
48	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
49	N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
50	4-Bromophenyl-phenylether	248	Compound Not Detected.					
51	Hexachlorobenzene	283	Compound Not Detected.					
195	Atrazine	200	Compound Not Detected.					
53	Pentachlorophenol	265	Compound Not Detected.					
54	Phenanthrene	178	Compound Not Detected.					
55	Anthracene	178	Compound Not Detected.					
56	Carbazole	167	Compound Not Detected.					
57	Di-n-Butylphthalate	149	Compound Not Detected.					
58	Fluoranthene	202	Compound Not Detected.					
59	Pyrene	202	Compound Not Detected.					
60	Butylbenzylphthalate	149	Compound Not Detected.					
61	3,3'-Dichlorobenzidine	252	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
	62 Benzo(a)Anthracene	228	Compound Not Detected.					
	63 Chrysene	228	Compound Not Detected.					
	64 bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
	65 Di-n-octylphthalate	149	Compound Not Detected.					
	66 Benzo(b)fluoranthene	252	Compound Not Detected.					
	67 Benzo(k)fluoranthene	252	Compound Not Detected.					
	68 Benzo(a)pyrene	252	Compound Not Detected.					
	69 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	70 Dibenz(a,h)anthracene	278	Compound Not Detected.					
	71 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$	72 Nitrobenzene-d5	82	5.077	5.080	(0.879)	407768	72.2653	1204.4
$	73 2-Fluorobiphenyl	172	7.227	7.230	(0.868)	734358	70.4843	1174.7
$	74 Terphenyl-d14	244	14.827	14.816	(0.870)	1088028	82.8787	1381.3
$	75 Phenol-d5	99	4.318	4.314	(0.947)	682483	111.678	1861.3
$	76 2-Fluorophenol	112	3.498	3.501	(0.767)	520604	102.743	1712.4
$	77 2,4,6-Tribromophenol	330	9.841	9.844	(0.878)	275132	120.836	2013.9
$	78 2-Chlorophenol-d4	132	4.405	4.408	(0.966)	612379	122.879	2048.0
$	79 1,2-Dichlorobenzene-d4	152	4.728	4.724	(1.037)	251445	73.9968	1233.3

CUMMINGS-RITER CONSULTANTS INC
CHECK SAMPLE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J210000 166
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNKK01AC Date Extracted:10/22/00
Dilution factor: 1 Date Analyzed: 10/25/00
Moisture %:NA

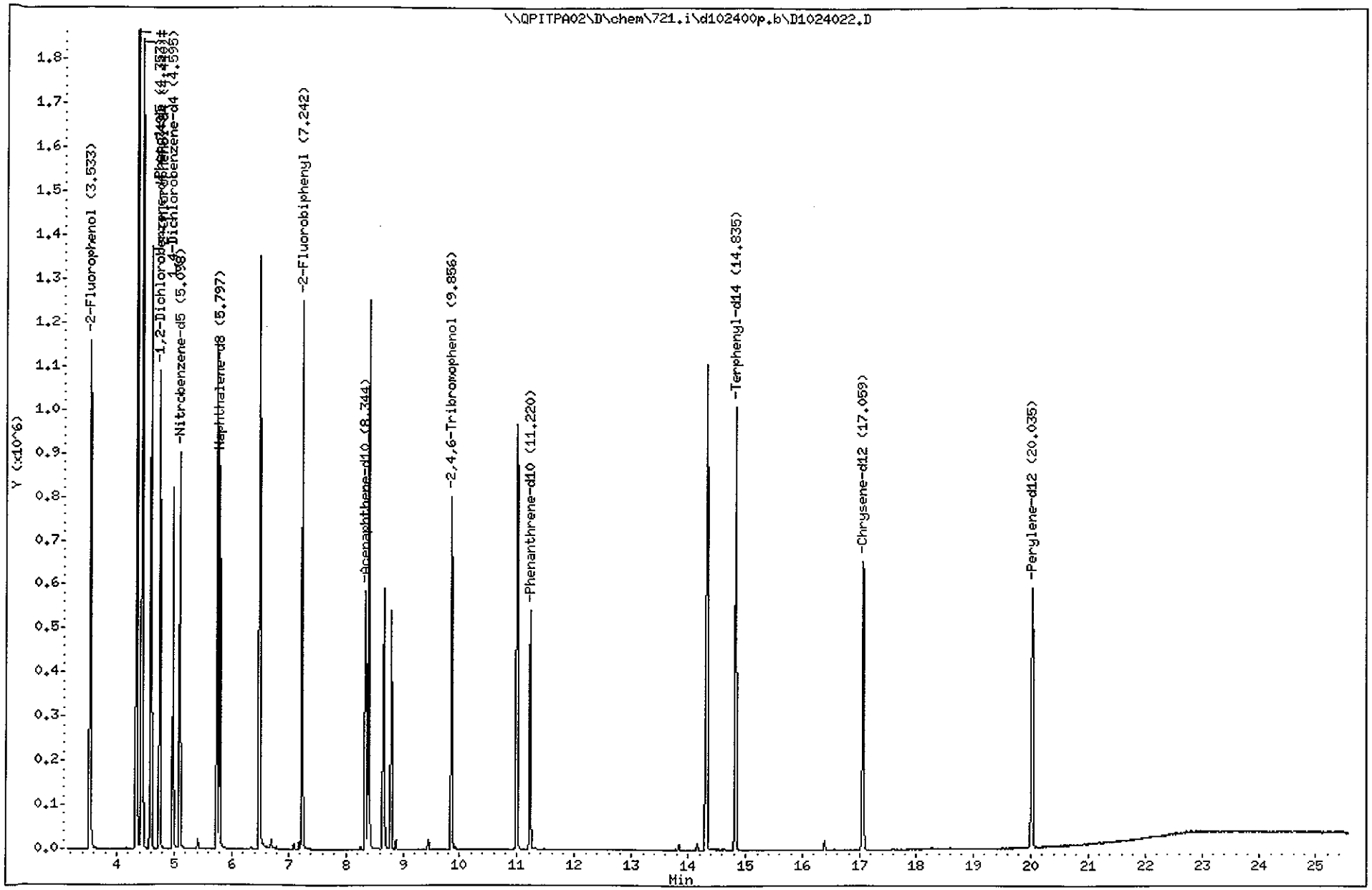
QC Batch: 0295166

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1620	
95-57-8	2-Chlorophenol	1750	
621-64-7	N-Nitrosodi-n-propylamine	1220	
59-50-7	4-Chloro-3-methylphenol	1900	
83-32-9	Acenaphthene	1320	
100-02-7	4-Nitrophenol	2160	
121-14-2	2,4-Dinitrotoluene	1250	
87-86-5	Pentachlorophenol	3050	a
129-00-0	Pyrene	1080	

Data File: \\QPITPA02\D\chem\721.i\d102400p.b\D1024022.D
Date : 25-OCT-2000 03:29
Client ID: INTRA-LAB CHECK
Sample Info: c0j200201-lcs soil 10/22/00 clp4.2
Volume Injected (uL): 2.0
Column phase:

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



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Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102400p.b\D1024022.D
Lab Smp Id: DNKK01AC Client Smp ID: LCS
Inj Date : 25-OCT-2000 03:29
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j200201-lcs soil 10/22/00 clp4.2
Misc Info : dnkk01ac,d102400p.b,clp.m,1-4.2.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d102400p.b\clp.m
Meth Date : 25-Oct-2000 11:30 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 17:05 Cal File: D1024CC7.D
Als bottle: 30 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-4.2.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-25-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	4.587	4.580	(1.000)	138356	40.0000	
* 2	Naphthalene-d8	136	5.797	5.796	(1.000)	509038	40.0000	
* 3	Acenaphthene-d10	164	8.343	8.349	(1.000)	228868	40.0000	
* 4	Phenanthrene-d10	188	11.219	11.225	(1.000)	373849	40.0000	
* 5	Chrysene-d12	240	17.058	17.071	(1.000)	475259	40.0000	
* 6	Perylene-d12	264	20.035	20.034	(1.000)	468902	40.0000	
191	Benzaldehyde	77	Compound Not Detected.					
7	Phenol	94	4.352	4.344	(0.949)	552277	96.9026	1615.0(Q)
8	Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9	2-Chlorophenol	128	4.446	4.438	(0.969)	533469	104.887	1748.1
13	2-Methylphenol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192	Acetophenone	105	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
16	N-Nitroso-di-n-propylamine	70	4.984	4.983	(1.086)	248240	73.2451	1220.8
17	Hexachloroethane	117	Compound Not Detected.					
18	Nitrobenzene	77	Compound Not Detected.					
19	Isophorone	82	Compound Not Detected.					
20	2-Nitrophenol	139	Compound Not Detected.					
21	2,4-Dimethylphenol	107	Compound Not Detected.					
22	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
23	2,4-Dichlorophenol	162	Compound Not Detected.					
25	Naphthalene	128	Compound Not Detected.					
26	4-Chloroaniline	127	Compound Not Detected.					
193	Caprolactam	113	Compound Not Detected.					
27	Hexachlorobutadiene	224	Compound Not Detected.					
28	4-Chloro-3-Methylphenol	107	6.489	6.495	(1.119)	414296	113.842	1897.4
29	2-Methylnaphthalene	142	Compound Not Detected.					
30	Hexachlorocyclopentadiene	236	Compound Not Detected.					
31	2,4,6-Trichlorophenol	196	Compound Not Detected.					
32	2,4,5-Trichlorophenol	196	Compound Not Detected.					
194	1,1'-Biphenyl	154	Compound Not Detected.					
33	2-Chloronaphthalene	162	Compound Not Detected.					
34	2-Nitroaniline	65	Compound Not Detected.					
35	Dimethylphthalate	163	Compound Not Detected.					
36	Acenaphthylene	152	Compound Not Detected.					
37	2,6-Dinitrotoluene	165	Compound Not Detected.					
38	3-Nitroaniline	138	Compound Not Detected.					
39	Acenaphthene	153	8.404	8.410	(1.007)	520440	78.9982	1316.6
40	2,4-Dinitrophenol	184	Compound Not Detected.					
41	4-Nitrophenol	109	8.673	8.665	(1.039)	130454	129.429	2157.1
42	Dibenzofuran	168	Compound Not Detected.					
43	2,4-Dinitrotoluene	165	8.807	8.806	(1.056)	191442	74.8423	1247.4
44	Diethylphthalate	149	Compound Not Detected.					
45	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
46	Fluorene	166	Compound Not Detected.					
47	4-Nitroaniline	138	Compound Not Detected.					
48	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
49	N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
50	4-Bromophenyl-phenylether	248	Compound Not Detected.					
51	Hexachlorobenzene	283	Compound Not Detected.					
195	Atrazine	200	Compound Not Detected.					
53	Pentachlorophenol	266	10.997	10.996	(0.980)	219145	183.086	3051.4(AR)
54	Phenanthrene	178	Compound Not Detected.					
55	Anthracene	178	Compound Not Detected.					
56	Carbazole	167	Compound Not Detected.					
57	Di-n-Butylphthalate	149	Compound Not Detected.					
58	Fluoranthene	202	Compound Not Detected.					
59	Pyrene	202	14.337	14.329	(0.840)	952259	64.9773	1083.0
60	Butylbenzylphthalate	149	Compound Not Detected.					
61	3,3'-Dichlorobenzidine	252	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
62	Benzo(a)Anthracene	228	Compound Not Detected.					
63	Chrysene	228	Compound Not Detected.					
64	bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
65	Di-n-octylphthalate	149	Compound Not Detected.					
66	Benzo(b)fluoranthene	252	Compound Not Detected.					
67	Benzo(k)fluoranthene	252	Compound Not Detected.					
68	Benzo(a)pyrene	252	Compound Not Detected.					
69	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
70	Dibenz(a,h)anthracene	278	Compound Not Detected.					
71	Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 72	Nitrobenzene-d5	82	5.098	5.097	(0.879)	340584	67.5510	1125.8
$ 73	2-Fluorobiphenyl	172	7.241	7.240	(0.868)	561254	69.2268	1153.8
$ 74	Terphenyl-d14	244	14.834	14.826	(0.870)	675102	56.6313	943.85
$ 75	Phenol-d5	99	4.345	4.331	(0.947)	572610	97.8421	1630.7
$ 76	2-Fluorophenol	112	3.532	3.525	(0.770)	529459	101.930	1698.8
$ 77	2,4,6-Tribromophenol	330	9.855	9.854	(0.878)	176094	119.350	1989.2
$ 78	2-Chlorophenol-d4	132	4.433	4.425	(0.966)	497811	100.537	1675.6
$ 79	1,2-Dichlorobenzene-d4	152	4.749	4.741	(1.035)	226663	67.5764	1126.3

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

CUMMINGS-RITER CONSULTANTS INC
CHECK SAMPLE COMPOUNDS

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

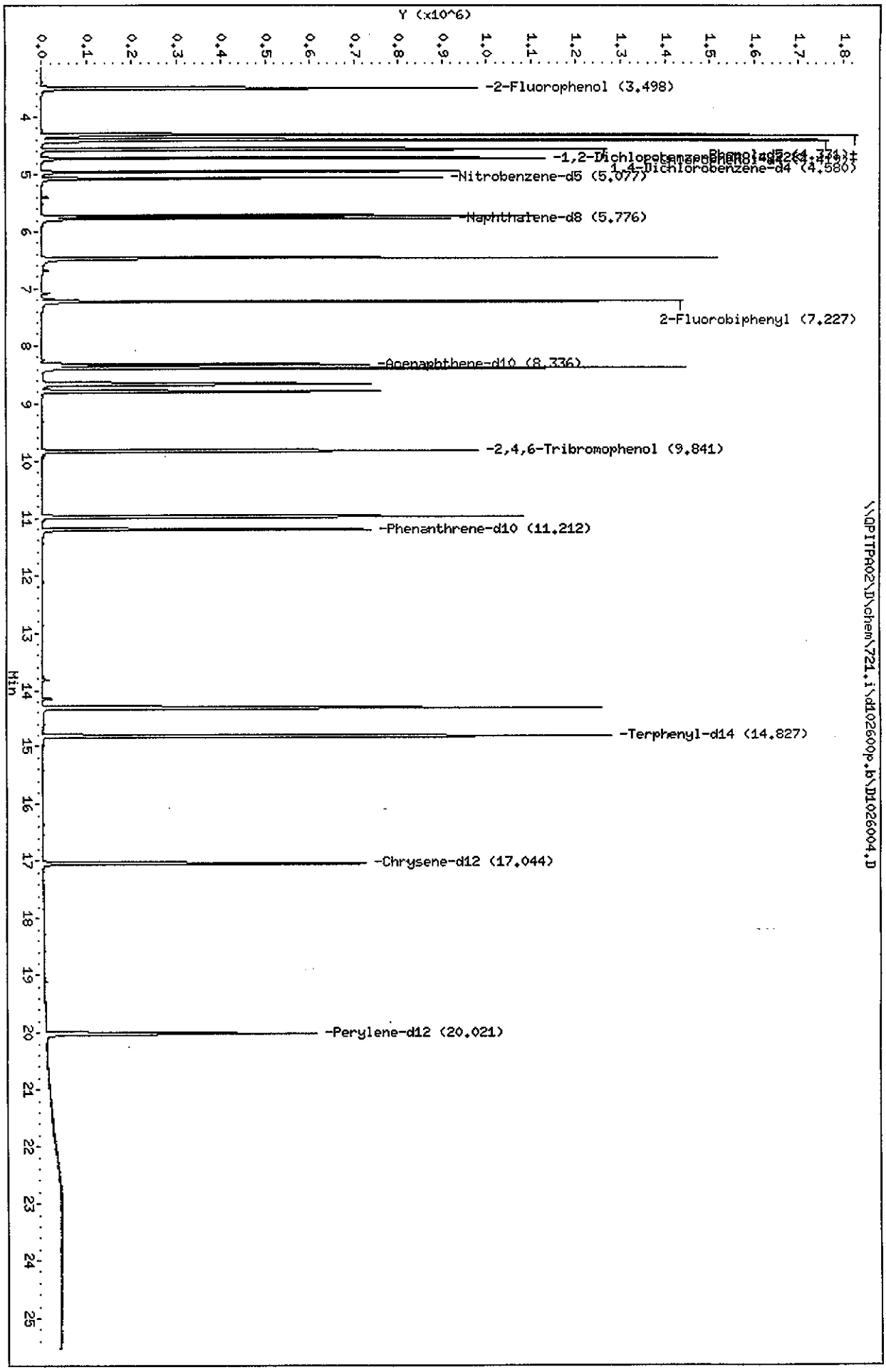
Matrix: (soil/water) SOLID Lab Sample ID:C0J250000 576
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/24/00
Work Order: DNQ8E1AC Date Extracted:10/25/00
Dilution factor: 1 Date Analyzed: 10/26/00
Moisture %:NA

QC Batch: 0299576

Client Sample Id: CHECK SAMPLE

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1530	
95-57-8	2-Chlorophenol	1630	
621-64-7	N-Nitrosodi-n-propylamine	1270	
59-50-7	4-Chloro-3-methylphenol	1760	
83-32-9	Acenaphthene	1150	
100-02-7	4-Nitrophenol	1890	
121-14-2	2,4-Dinitrotoluene	1290	
87-86-5	Pentachlorophenol	1970	
129-00-0	Pyrene	1310	



Data File: \\QPITPA02\D\chem\721.i\d1026004.b\D1026004.D
Date : 26-OCT-2000 16:11
Client ID: INTRA-LAB CHECK
Sample Info: c0j240227-lcs soil 10/25/00 clp4,2
Volume Injected (uL): 2,0
Column phase:

Instrument: 721.i
Operator: 001562, DLF
Column diameter: 0,25

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Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102600p.b\D1026004.D
Lab Smp Id: DNQ8E1AC Client Smp ID: LCS
Inj Date : 26-OCT-2000 16:11
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j240227-lcs soil 10/25/00 clp4.2
Misc Info : dnq8e1ac,d102600p.b,clp.m,1-4.2.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d102600p.b\clp.m
Meth Date : 27-Oct-2000 08:24 ferguson Quant Type: ISTD
Cal Date : 26-OCT-2000 15:07 Cal File: D1026CC3.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-4.2.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-27-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL) (1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	4.566	4.562	(1.000)	142188	40.0000	
* 2	Naphthalene-d8	136	5.775	5.779	(1.000)	586371	40.0000	
* 3	Acenaphthene-d10	164	8.335	8.332	(1.000)	304544	40.0000	
* 4	Phenanthrene-d10	188	11.211	11.208	(1.000)	537849	40.0000	
* 5	Chrysene-d12	240	17.044	17.054	(1.000)	541888	40.0000	
* 6	Perylene-d12	264	20.020	20.023	(1.000)	493418	40.0000	
191	Benzaldehyde	77	Compound Not Detected.					
7	Phenol	94	4.331	4.327	(0.948)	554792	91.8366	1530.6 (Q)
8	Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9	2-Chlorophenol	128	4.425	4.421	(0.969)	512562	97.6613	1627.7
13	2-Methylphenol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192	Acetophenone	105	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
16	N-Nitroso-di-n-propylamine	70	4.962	4.966	(1.087)	274949	76.0663	1267.8
17	Hexachloroethane	117	Compound Not Detected.					
18	Nitrobenzene	77	Compound Not Detected.					
19	Isophorone	82	Compound Not Detected.					
20	2-Nitrophenol	139	Compound Not Detected.					
21	2,4-Dimethylphenol	107	Compound Not Detected.					
22	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
23	2,4-Dichlorophenol	162	Compound Not Detected.					
25	Naphthalene	128	Compound Not Detected.					
26	4-Chloroaniline	127	Compound Not Detected.					
193	Caprolactam	113	Compound Not Detected.					
27	Hexachlorobutadiene	224	Compound Not Detected.					
28	4-Chloro-3-Methylphenol	107	6.474	6.484	(1.121)	470329	105.374	1756.2
29	2-Methylnaphthalene	142	Compound Not Detected.					
30	Hexachlorocyclopentadiene	236	Compound Not Detected.					
31	2,4,6-Trichlorophenol	196	Compound Not Detected.					
32	2,4,5-Trichlorophenol	196	Compound Not Detected.					
194	1,1'-Biphenyl	154	Compound Not Detected.					
33	2-Chloronaphthalene	162	Compound Not Detected.					
34	2-Nitroaniline	65	Compound Not Detected.					
35	Dimethylphthalate	163	Compound Not Detected.					
36	Acenaphthylene	152	Compound Not Detected.					
37	2,6-Dinitrotoluene	165	Compound Not Detected.					
38	3-Nitroaniline	138	Compound Not Detected.					
39	Acenaphthene	153	8.396	8.392	(1.007)	617029	69.0151	1150.2
40	2,4-Dinitrophenol	184	Compound Not Detected.					
41	4-Nitrophenol	109	8.671	8.661	(1.040)	166379	113.555	1892.6(Q)
42	Dibenzofuran	168	Compound Not Detected.					
43	2,4-Dinitrotoluene	165	8.799	8.796	(1.056)	285458	77.4035	1290.0
44	Diethylphthalate	149	Compound Not Detected.					
45	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
46	Fluorene	166	Compound Not Detected.					
47	4-Nitroaniline	138	Compound Not Detected.					
48	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
49	N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
50	4-Bromophenyl-phenylether	248	Compound Not Detected.					
51	Hexachlorobenzene	283	Compound Not Detected.					
195	Atrazine	200	Compound Not Detected.					
53	Pentachlorophenol	266	10.983	10.979	(0.980)	265001	118.491	1974.8
54	Phenanthrene	178	Compound Not Detected.					
55	Anthracene	178	Compound Not Detected.					
56	Carbazole	167	Compound Not Detected.					
57	Di-n-Butylphthalate	149	Compound Not Detected.					
58	Fluoranthene	202	Compound Not Detected.					
59	Pyrene	202	14.322	14.312	(0.840)	1226523	78.6828	1311.4
60	Butylbenzylphthalate	149	Compound Not Detected.					
61	3,3'-Dichlorobenzidine	252	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
62	Benzo(a)Anthracene	228	Compound Not Detected.					
63	Chrysene	228	Compound Not Detected.					
64	bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
65	Di-n-octylphthalate	149	Compound Not Detected.					
66	Benzo(b)fluoranthene	252	Compound Not Detected.					
67	Benzo(k)fluoranthene	252	Compound Not Detected.					
68	Benzo(a)pyrene	252	Compound Not Detected.					
69	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
70	Dibenz(a,h)anthracene	278	Compound Not Detected.					
71	Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 72	Nitrobenzene-d5	82	5.077	5.080	(0.879)	356924	61.6773	1028.0
$ 73	2-Fluorobiphenyl	172	7.227	7.230	(0.867)	655960	61.1980	1020.0
$ 74	Terphenyl-d14	244	14.826	14.816	(0.870)	993697	75.5157	1258.6
$ 75	Phenol-d5	99	4.324	4.314	(0.947)	576391	92.8821	1548.0
$ 76	2-Fluorophenol	112	3.498	3.501	(0.766)	449858	87.4298	1457.2
$ 77	2,4,6-Tribromophenol	330	9.847	9.844	(0.878)	246409	106.408	1773.5
$ 78	2-Chlorophenol-d4	132	4.411	4.408	(0.966)	513637	101.497	1691.6
$ 79	1,2-Dichlorobenzene-d4	152	4.727	4.724	(1.035)	214186	62.0727	1034.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.

CUMMINGS-RITER CONSULTANTS INC
MATRIX SPIKE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J200201 001
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNHW61AE Date Extracted:10/22/00
Dilution factor: 1 Date Analyzed: 10/25/00
Moisture %:11

QC Batch: 0295166

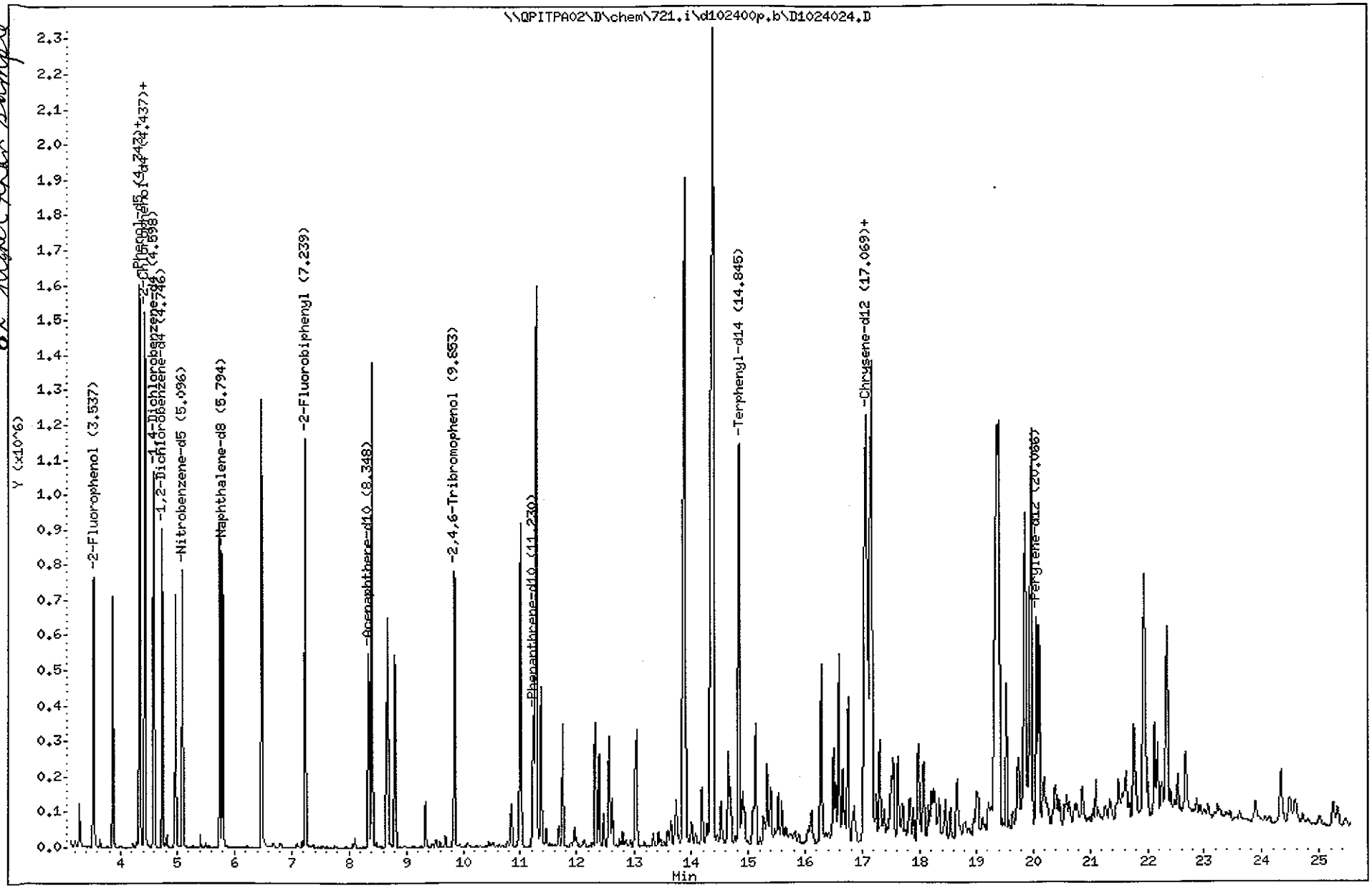
Client Sample Id: PXS-8A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1460	
95-57-8	2-Chlorophenol	1450	
621-64-7	N-Nitrosodi-n-propylamine	1120	
59-50-7	4-Chloro-3-methylphenol	1980	
83-32-9	Acenaphthene	1650	
100-02-7	4-Nitrophenol	2800	
121-14-2	2,4-Dinitrotoluene	1620	
87-86-5	Pentachlorophenol	3300	a
129-00-0	Pyrene	4090	a

Data File: \\QPITPA02\D\chem\721.i\d102400p.b\D1024024.D
Date : 25-OCT-2000 04:32
Client ID: PXS-8A
Sample Info: c0j200201-001ms soil 10/22/00 clp4.2
Volume Injected (uL): 2.0
Column phase:

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

8x higher than sample



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Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102400p.b\D1024024.D
Lab Smp Id: DNHW61AE Client Smp ID: PXS-8AMS
Inj Date : 25-OCT-2000 04:32
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j200201-001ms soil 10/22/00 clp4.2
Misc Info : dnhw61ae,d102400p.b,clp.m,1-4.2.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d102400p.b\clp.m
Meth Date : 25-Oct-2000 11:30 ferguson Quant Type: ISTD
Cal Date : 24-OCT-2000 17:05 Cal File: D1024CC7.D
Als bottle: 32 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-4.2.sub
Target Version: 4.04
Processing Host: PITPC013

DLF 10-25-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	4.584	4.580	(1.000)	137756	40.0000	
* 2	Naphthalene-d8	136	5.794	5.796	(1.000)	487873	40.0000	
* 3	Acenaphthene-d10	164	8.347	8.349	(1.000)	215412	40.0000	
* 4	Phenanthrene-d10	188	11.230	11.225	(1.000)	351371	40.0000	
* 5	Chrysene-d12	240	17.096	17.071	(1.000)	447948	40.0000	
* 6	Perylene-d12	264	20.065	20.034	(1.000)	428933	40.0000	
191	Benzaldehyde	77	Compound Not Detected.					
7	Phenol	94	4.349	4.344	(0.949)	441533	77.8089	1296.8(Q)
8	Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9	2-Chlorophenol	128	4.443	4.438	(0.969)	391034	77.2175	1287.0
13	2-Methylphenol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192	Acetophenone	105	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
16	N-Nitroso-di-n-propylamine	70	4.981	4.983	(1.086)	201268	59.6443	994.07
17	Hexachloroethane	117	Compound Not Detected.					
18	Nitrobenzene	77	Compound Not Detected.					
19	Isophorone	82	Compound Not Detected.					
20	2-Nitrophenol	139	Compound Not Detected.					
21	2,4-Dimethylphenol	107	Compound Not Detected.					
22	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
23	2,4-Dichlorophenol	162	Compound Not Detected.					
25	Naphthalene	128	Compound Not Detected.					
26	4-Chloroaniline	127	Compound Not Detected.					
193	Caprolactam	113	Compound Not Detected.					
27	Hexachlorobutadiene	224	Compound Not Detected.					
28	4-Chloro-3-Methylphenol	107	6.486	6.495	(1.119)	368504	105.652	1760.9
29	2-Methylnaphthalene	142	Compound Not Detected.					
30	Hexachlorocyclopentadiene	236	Compound Not Detected.					
31	2,4,6-Trichlorophenol	196	Compound Not Detected.					
32	2,4,5-Trichlorophenol	196	Compound Not Detected.					
194	1,1'-Biphenyl	154	Compound Not Detected.					
33	2-Chloronaphthalene	162	Compound Not Detected.					
34	2-Nitroaniline	65	Compound Not Detected.					
35	Dimethylphthalate	163	Compound Not Detected.					
36	Acenaphthylene	152	Compound Not Detected.					
37	2,6-Dinitrotoluene	165	Compound Not Detected.					
38	3-Nitroaniline	138	Compound Not Detected.					
39	Acenaphthene	153	8.408	8.410	(1.007)	545332	87.9474	1465.8
40	2,4-Dinitrophenol	184	Compound Not Detected.					
41	4-Nitrophenol	109	8.676	8.665	(1.039)	141747	149.418	2490.3
42	Dibenzofuran	168	8.683	8.692	(1.040)	43851	5.08741	84.790(aQ)
43	2,4-Dinitrotoluene	165	8.804	8.806	(1.055)	208213	86.4835	1441.4
44	Diethylphthalate	149	Compound Not Detected.					
45	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
46	Fluorene	166	9.335	9.344	(1.118)	58541	8.84572	147.43(a)
47	4-Nitroaniline	138	Compound Not Detected.					
48	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
49	N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
50	4-Bromophenyl-phenylether	248	Compound Not Detected.					
51	Hexachlorobenzene	283	Compound Not Detected.					
195	Atrazine	200	Compound Not Detected.					
53	Pentachlorophenol	266	11.008	10.996	(0.980)	198095	176.087	2934.8(AR)
54	Phenanthrene	178	11.297	11.279	(1.006)	1428010	160.597	2676.6(A)
55	Anthracene	178	11.364	11.366	(1.012)	292014	31.2719	521.20(Q)
56	Carbazole	167	11.754	11.756	(1.047)	246270	29.6692	494.49
57	Di-n-Butylphthalate	149	Compound Not Detected.					
58	Fluoranthene	202	13.897	13.852	(1.238)	2606639	280.729	4678.8(A)
59	Pyrene	202	14.381	14.329	(0.841)	3021275	218.726	3645.4(AR)
60	Butylbenzylphthalate	149	Compound Not Detected.					
61	3,3'-Dichlorobenzidine	252	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
62	Benzo(a)Anthracene	228	17.069	17.030	(0.998)	1308013	107.956	1799.3(Q)
63	Chrysene	228	17.169	17.124	(1.004)	1294270	117.094	1951.6
64	bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
65	Di-n-octylphthalate	149	Compound Not Detected.					
66	Benzo(b)fluoranthene	252	19.367	19.315	(0.965)	1523753	112.335	1872.2
67	Benzo(k)fluoranthene	252	19.407	19.369	(0.967)	898247	69.0361	1150.6(H)
68	Benzo(a)pyrene	252	19.978	19.926	(0.996)	1055441	88.2253	1470.4
69	Indeno(1,2,3-cd)pyrene	276	21.940	21.915	(1.093)	576035	48.7484	812.47
70	Dibenz(a,h)anthracene	278	21.960	21.962	(1.094)	189327	15.3610	256.02(aQ)
71	Benzo(g,h,i)perylene	276	22.343	22.325	(1.114)	420177	33.3980	556.63
$ 72	Nitrobenzene-d5	82	5.095	5.097	(0.879)	282870	58.5380	975.63
$ 73	2-Fluorobiphenyl	172	7.238	7.240	(0.867)	541747	70.9948	1183.2
$ 74	Terphenyl-d14	244	14.845	14.826	(0.868)	772293	68.7341	1145.6
$ 75	Phenol-d5	99	4.336	4.331	(0.946)	470379	80.7239	1345.4
$ 76	2-Fluorophenol	112	3.536	3.525	(0.771)	336163	64.9993	1083.3
$ 77	2,4,6-Tribromophenol	330	9.859	9.854	(0.878)	177177	127.766	2129.4
$ 78	2-Chlorophenol-d4	132	4.430	4.425	(0.966)	380964	77.2737	1287.9
$ 79	1,2-Dichlorobenzene-d4	152	4.746	4.741	(1.035)	169172	50.6560	844.26

QC Flag Legend

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

CUMMINGS-RITER CONSULTANTS INC
MATRIX SPIKE DUPLICATE COMPOUNDS

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

Matrix: (soil/water) SOLID Lab Sample ID:C0J200201 001
Method: OCLP OLM04.2
Semi-Volatile Organic Compounds - CLP (OLM04.2)

Sample WT/Vol: 30 / g Date Received: 10/20/00
Work Order: DNHW61AF Date Extracted:10/22/00
Dilution factor: 1 Date Analyzed: 10/25/00
Moisture %:11

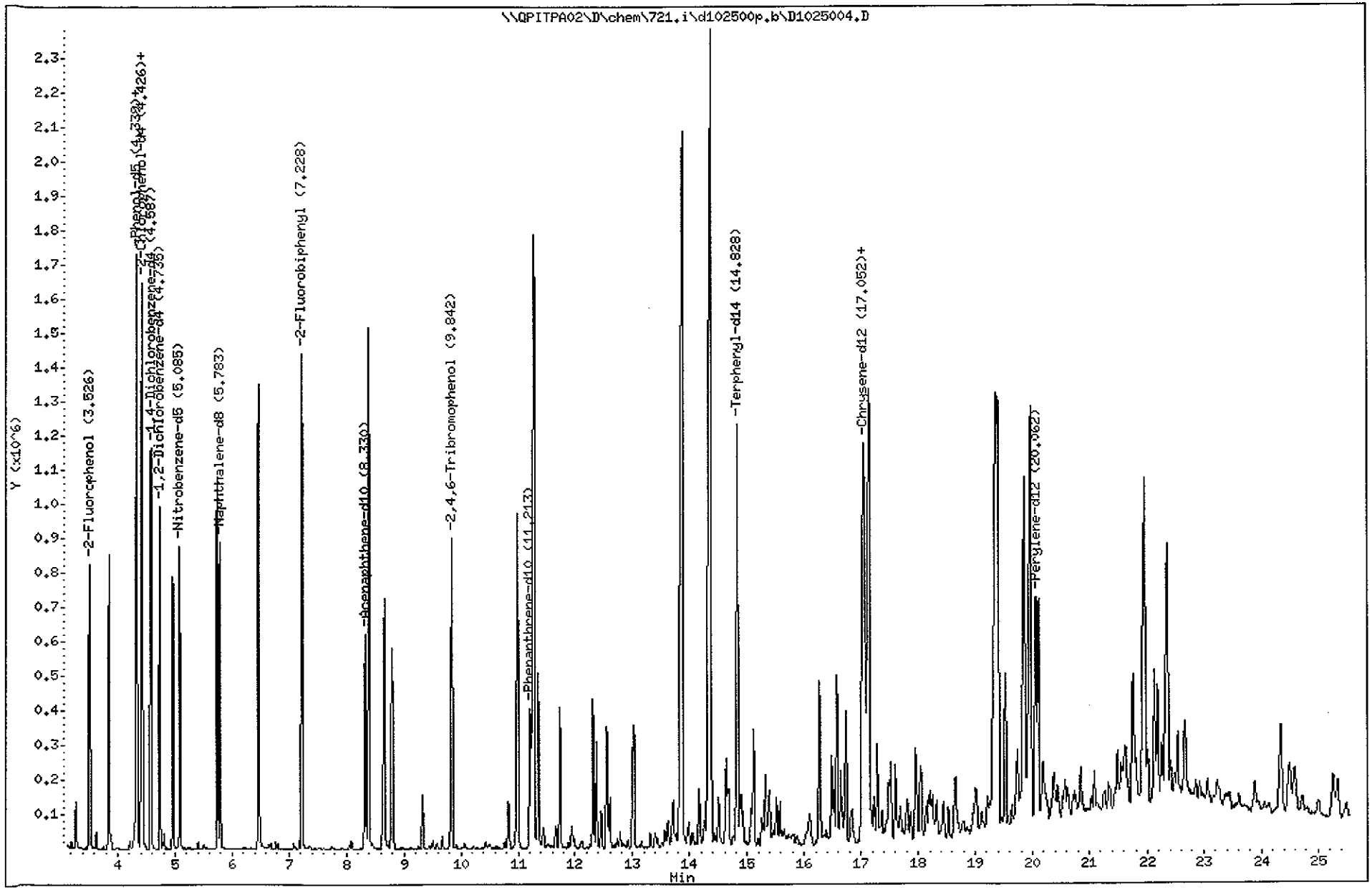
QC Batch: 0295166

Client Sample Id: PXS-8A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-95-2	Phenol	1490	
95-57-8	2-Chlorophenol	1550	
621-64-7	N-Nitrosodi-n-propylamine	1230	
59-50-7	4-Chloro-3-methylphenol	1940	
83-32-9	Acenaphthene	1700	
100-02-7	4-Nitrophenol	2490	
121-14-2	2,4-Dinitrotoluene	1750	a
87-86-5	Pentachlorophenol	2720	
129-00-0	Pyrene	4850	a

Data File: \\QPITPA02\D\chem\721.i\d102500p.b\D1025004.D
Date : 25-OCT-2000 15:51
Client ID: PXS-8AMSD
Sample Info: c0j200201-001msd soil 10/22/00 clp4.2
Volume Injected (uL): 2.0
Column phase:

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



STL-Pittsburgh

Semivolatile REPORT CLP4.2

Data file : \\QPITPA02\D\chem\721.i\d102500p.b\D1025004.D
Lab Smp Id: DNHW61AF Client Smp ID: PXS-8AMSD
Inj Date : 25-OCT-2000 15:51
Operator : 001562, DLF Inst ID: 721.i
Smp Info : c0j200201-001msd soil 10/22/00 clp4.2
Misc Info : dnhw61af,d102500p.b,clp.m,1-4.2.sub
Comment :
Method : \\QPITPA02\D\chem\721.i\d102500p.b\clp.m
Meth Date : 25-Oct-2000 16:13 ferguson Quant Type: ISTD
Cal Date : 25-OCT-2000 13:14 Cal File: D1025CCC.D
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-4.2.sub
Target Version: 4.04
Processing Host: PITPC013

AK 1h 10-25-00

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

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	gpc correction factor
Vt	500.000	Volume of final extract (uL)(1000 low, 2
Vi	2.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	4.574	4.563	(1.000)	144963	40.0000	
* 2 Naphthalene-d8	136	5.783	5.779	(1.000)	535919	40.0000	
* 3 Acenaphthene-d10	164	8.330	8.332	(1.000)	242503	40.0000	
* 4 Phenanthrene-d10	188	11.212	11.201	(1.000)	385879	40.0000	
* 5 Chrysene-d12	240	17.078	17.047	(1.000)	401610	40.0000	
* 6 Perylene-d12	264	20.055	20.010	(1.000)	482252	40.0000	
191 Benzaldehyde	77	Compound Not Detected.					
7 Phenol	94	4.338	4.328	(0.949)	486390	79.8515	1330.8(Q)
8 Bis(2-chloroethyl)ether	93	Compound Not Detected.					
9 2-Chlorophenol	128	4.432	4.422	(0.969)	441053	83.0683	1384.5
13 2-Methylphenol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
192 Acetophenone	105	Compound Not Detected.					
15 4-Methylphenol	108	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
16	N-Nitroso-di-n-propylamine	70	4.963	4.966	(1.085)	231666	65.9309	1098.8
17	Hexachloroethane	117	Compound Not Detected.					
18	Nitrobenzene	77	Compound Not Detected.					
19	Isophorone	82	Compound Not Detected.					
20	2-Nitrophenol	139	Compound Not Detected.					
21	2,4-Dimethylphenol	107	Compound Not Detected.					
22	Bis(2-chloroethoxy)methane	93	Compound Not Detected.					
23	2,4-Dichlorophenol	162	Compound Not Detected.					
25	Naphthalene	128	Compound Not Detected.					
26	4-Chloroaniline	127	Compound Not Detected.					
193	Caprolactam	113	Compound Not Detected.					
27	Hexachlorobutadiene	224	Compound Not Detected.					
28	4-Chloro-3-Methylphenol	107	6.475	6.478	(1.120)	404995	103.856	1730.9
29	2-Methylnaphthalene	142	Compound Not Detected.					
30	Hexachlorocyclopentadiene	236	Compound Not Detected.					
31	2,4,6-Trichlorophenol	196	Compound Not Detected.					
32	2,4,5-Trichlorophenol	196	Compound Not Detected.					
194	1,1'-Biphenyl	154	Compound Not Detected.					
33	2-Chloronaphthalene	162	Compound Not Detected.					
34	2-Nitroaniline	65	Compound Not Detected.					
35	Dimethylphthalate	163	Compound Not Detected.					
36	Acenaphthylene	152	Compound Not Detected.					
37	2,6-Dinitrotoluene	165	Compound Not Detected.					
38	3-Nitroaniline	138	Compound Not Detected.					
39	Acenaphthene	153	8.397	8.386	(1.008)	650730	90.5866	1509.8
40	2,4-Dinitrophenol	184	Compound Not Detected.					
41	4-Nitrophenol	109	8.666	8.648	(1.040)	157214	133.052	2217.5
42	Dibenzofuran	168	8.666	8.675	(1.040)	52411	5.30415	88.402(aQ)
43	2,4-Dinitrotoluene	165	8.800	8.789	(1.056)	261580	93.5000	1558.3(R)
44	Diethylphthalate	149	Compound Not Detected.					
45	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
46	Fluorene	166	9.317	9.327	(1.119)	70732	9.28779	154.80(a)
47	4-Nitroaniline	138	Compound Not Detected.					
48	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
49	N-Nitrosodiphenylamine (1)	169	Compound Not Detected.					
50	4-Bromophenyl-phenylether	248	Compound Not Detected.					
51	Hexachlorobenzene	283	Compound Not Detected.					
195	Atrazine	200	Compound Not Detected.					
53	Pentachlorophenol	266	10.990	10.973	(0.980)	222266	145.247	2420.8
54	Phenanthrene	178	11.279	11.255	(1.006)	1663064	171.969	2866.1(A)
55	Anthracene	178	11.353	11.349	(1.013)	336575	33.6012	560.02(Q)
56	Carbazole	167	11.736	11.739	(1.047)	280633	30.5671	509.45
57	Di-n-Butylphthalate	149	Compound Not Detected.					
58	Fluoranthene	202	13.886	13.829	(1.239)	2790635	262.757	4379.3(A)
59	Pyrene	202	14.363	14.306	(0.841)	3117058	258.999	4316.6(AR)
60	Butylbenzylphthalate	149	Compound Not Detected.					
61	3,3'-Dichlorobenzidine	252	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
62	Benzo(a)Anthracene	228	17.051	17.014	(0.998)	1245051	114.018	1900.3(Q)
63	Chrysene	228	17.145	17.108	(1.004)	1261546	126.980	2116.3
64	bis(2-ethylhexyl)Phthalate	149	17.521	17.518	(1.026)	22166	2.43595	40.599(aQ)
65	Di-n-octylphthalate	149	Compound Not Detected.					
66	Benzo(b)fluoranthene	252	19.363	19.298	(0.965)	1688816	113.819	1897.0
67	Benzo(k)fluoranthene	252	19.396	19.345	(0.967)	961227	63.9834	1066.4(H)
68	Benzo(a)pyrene	252	19.967	19.903	(0.996)	1247925	92.1527	1535.9(H)
69	Indeno(1,2,3-cd)pyrene	276	21.949	21.892	(1.094)	906872	70.3940	1173.2(Q)
70	Dibenz(a,h)anthracene	278	21.963	21.945	(1.095)	247038	18.5602	309.34(aQ)
71	Benzo(g,h,i)perylene	276	22.359	22.302	(1.115)	709906	54.7216	912.03
$ 72	Nitrobenzene-d5	82	5.084	5.080	(0.879)	327424	61.7447	1029.1
$ 73	2-Fluorobiphenyl	172	7.228	7.224	(0.868)	634131	72.7757	1212.9
$ 74	Terphenyl-d14	244	14.827	14.810	(0.868)	835064	83.8957	1398.3
$ 75	Phenol-d5	99	4.332	4.314	(0.947)	520641	84.3906	1406.5
$ 76	2-Fluorophenol	112	3.525	3.508	(0.771)	359577	65.8472	1097.4
$ 77	2,4,6-Tribromophenol	330	9.841	9.837	(0.878)	210547	134.322	2238.7
$ 78	2-Chlorophenol-d4	132	4.419	4.408	(0.966)	434740	84.5234	1408.7
$ 79	1,2-Dichlorobenzene-d4	152	4.735	4.731	(1.035)	193256	54.3033	905.06

QC Flag Legend

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

GC/MS SEMIVOLATILE
MISCELLANEOUS

STL Pittsburgh

GPC Log Sheet

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

Projects: POJ200201 / POJ200195 | Collect: 25:30 | Dump 27:54 | Load 8.2 | Wash 10:00 | Inst ID "B"

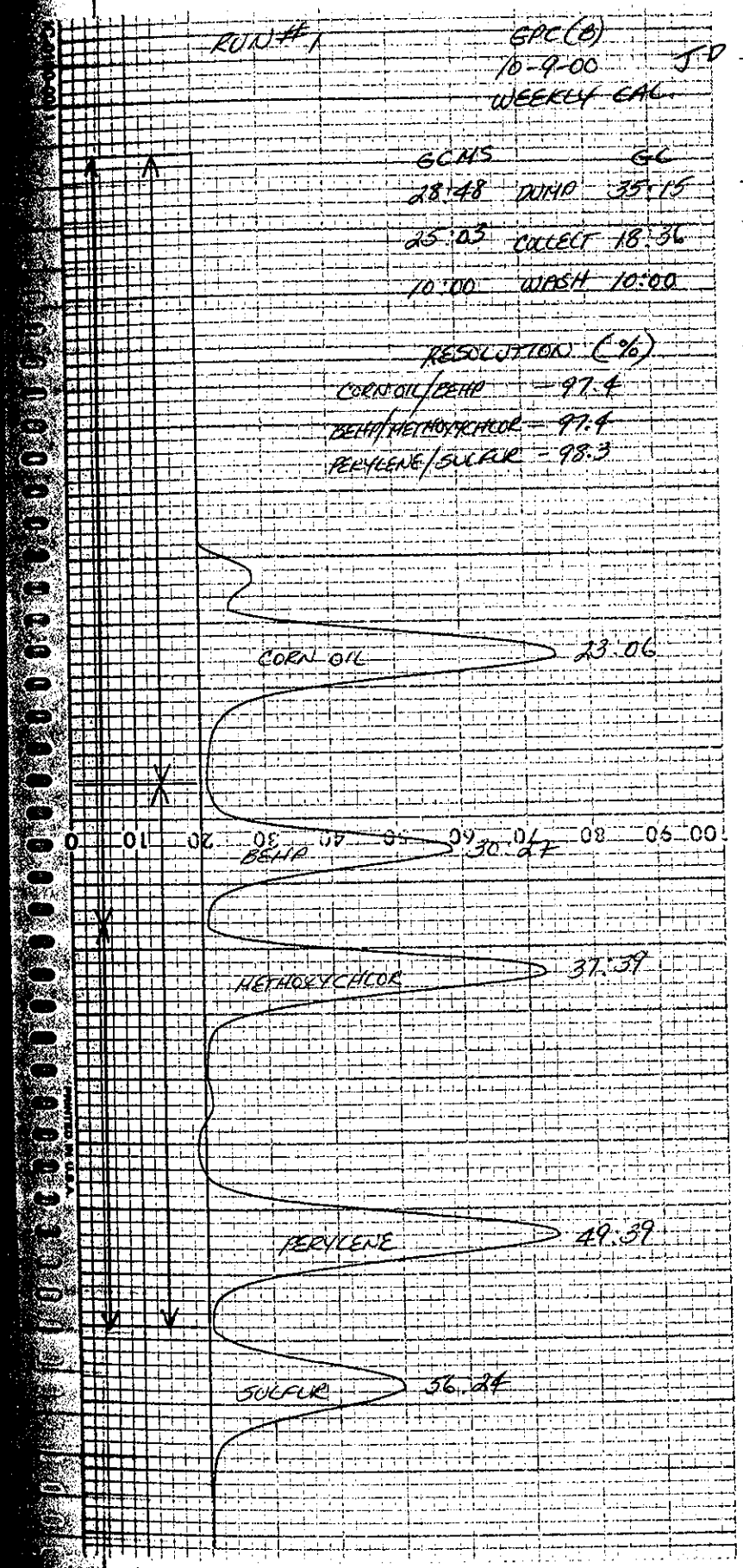
	Date	Run #	Lot #	Sample ID	Client ID	Pos. No.	Comments
1.	10-22-00	NA	POJ200201	BLK	NA	1	BNA PLP 01M04.2
2.				LCS		2	
3.				001 MS		3	
4.				001 MSD		4	
5.				001		5	
6.				002		6	
7.			POJ200195	BLK		7	BNA PLPOLM03.2
8.				LCS		8	
9.				001 MS		9	
10.				001 MSD		10	
11.				001		11	
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
	Analyst	PY	PY	PY	PY	PY	PY	PY

P. Yurchisin 10-22-00

Comments:

Reviewed By: James M. Allen | Date: 10-23-00

1147



10-9-00

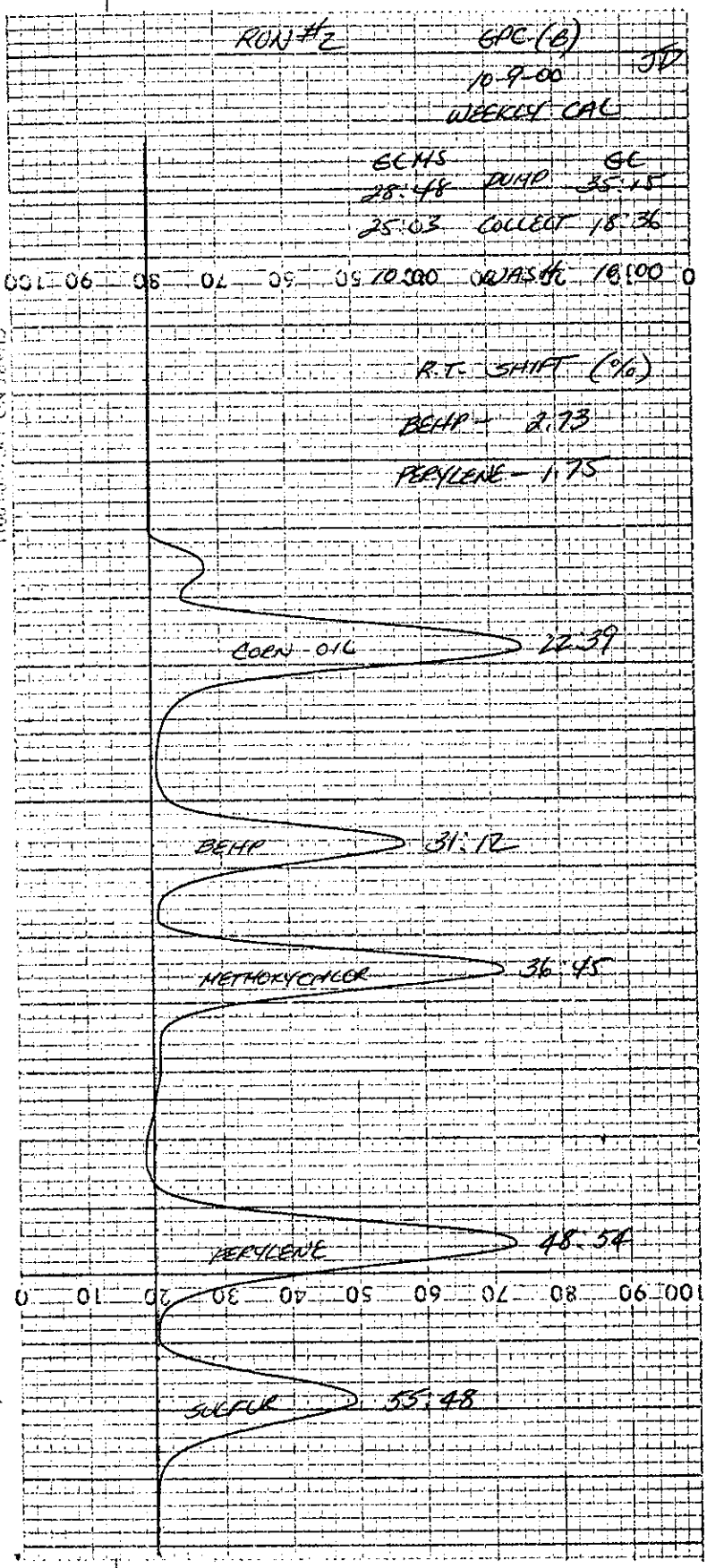
ANALYST: JD

STD ID: 186-16-7

GCMS		GC
28:48	DUMP	35:15
25:03	COLLECT	18:36
10:00	WASH	10:00

start 10/9/00

end 10/16/00

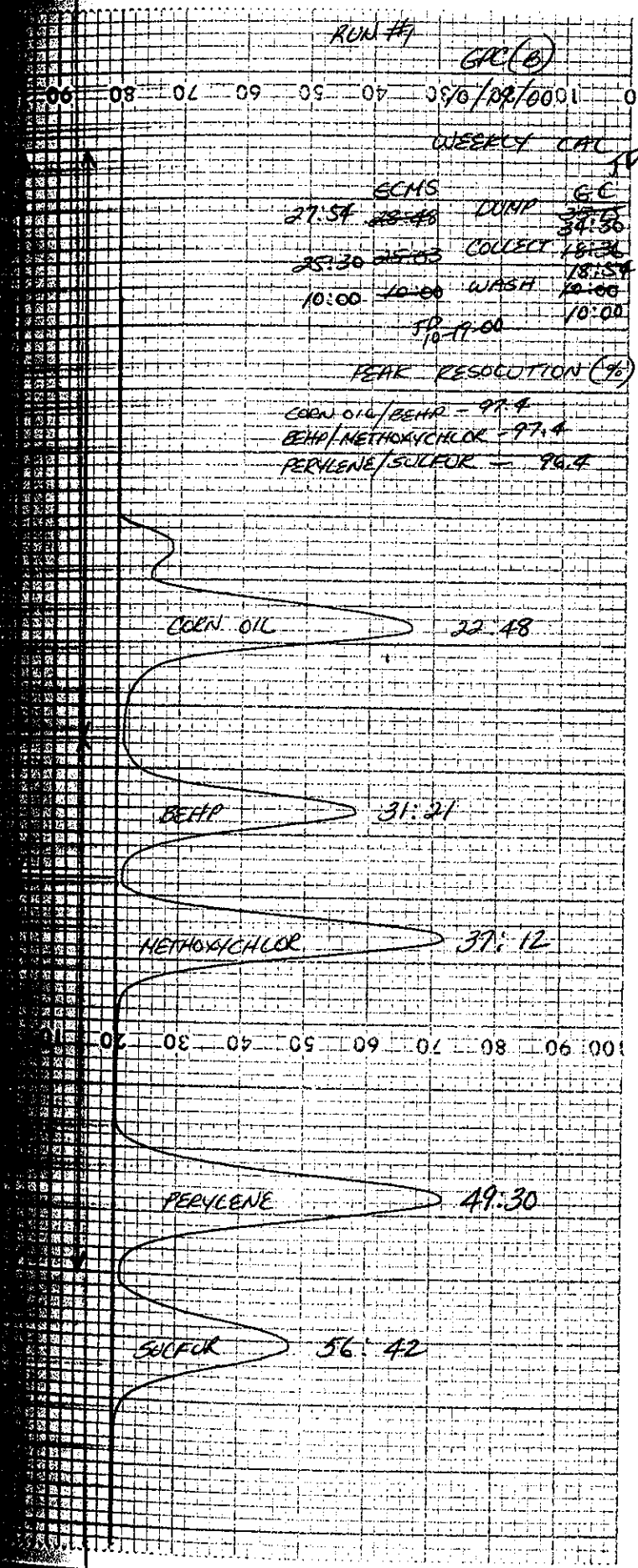


10-9-00

ANALYST: JD

STD ID: 186-16-7

GCMS		GC
28:48	DUMP	35:15
25:03	COLLECT	18:36
10:00	WASH	10:00



10-19-00

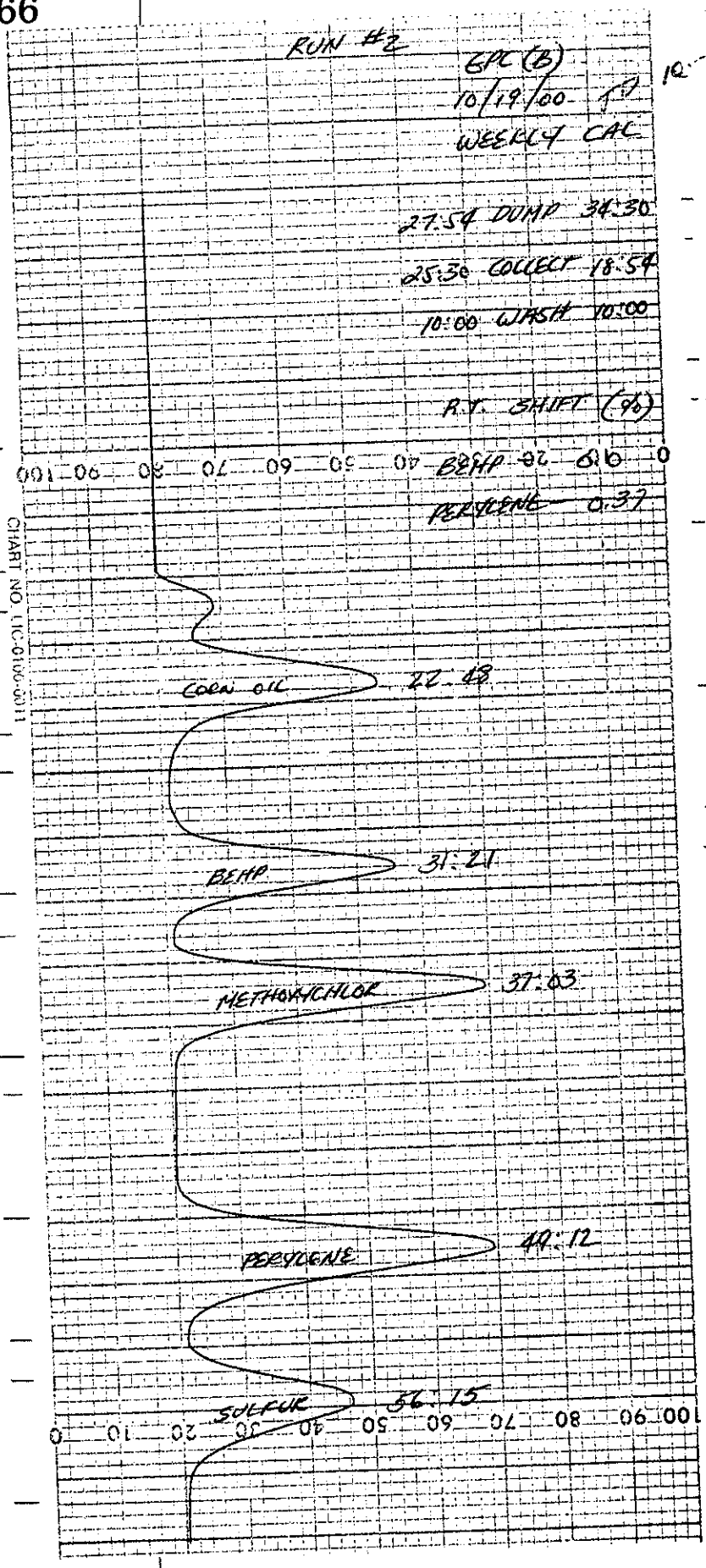
ANALYST: JD

STD ID: 186-16-8

GCMS		GC
27:54	DUMP	34:30
25:30	COLLECT	18:54
10:00	WASH	10:00

START 10-19-00

END 10-26-00



10-19-00

ANALYST: JD

STD ID: 186-16

GCMS GC

DUMP

COLLECT

10:00 WASH 10:00

START 10-19-00

END 10-26-0

STL Pittsburgh

GPC Log Sheet

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

Committed To Your Success

Projects: COT240227, COJ190175, COJ200201 | Collect: 25:39 | Dump 27:54 | Load 8.2 | Wash 10:00 | Inst ID "B"

	Date	Run #	Lot #	Sample I.D.	Client ID	Pos. No.	Comments
1.	10-25-00	NA	COJ240227	BLK	NA	1	CLP BNA (LM09.2)
2.				LCS		2	
3.				001MS		3	
4.				001MSD		4	
5.				001		5	
6.				002		6	
7.			COJ190175	005		7	
8.			COJ200201	001		8	
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
Analyst	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.	B.P.

B.P. 10-25-00

Comments:

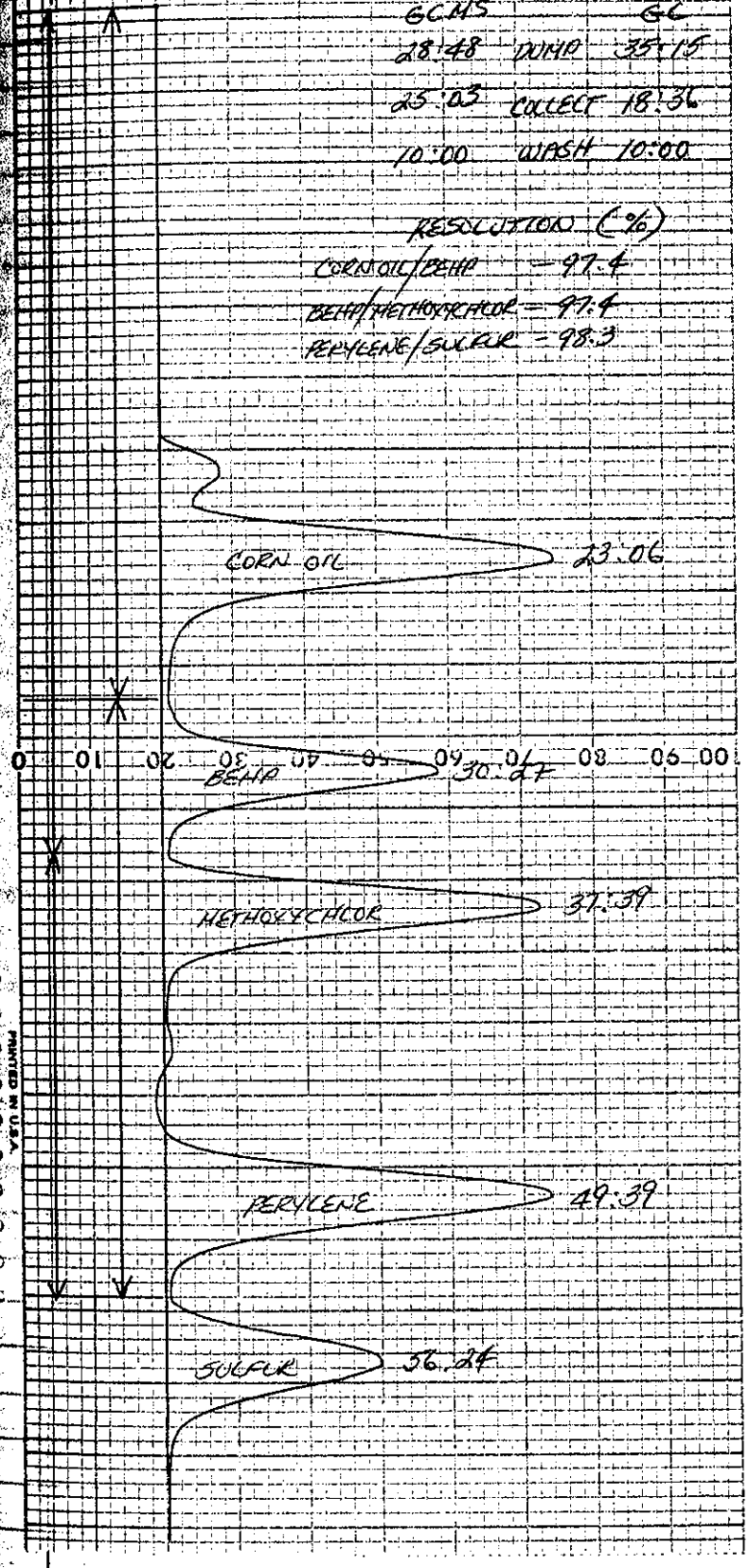
Reviewed By: Ken Dell | Date: 10-26-00

1152

RUN #1 GPC(B) 10-9-00 JD
WEEKLY CAL

GCMS		GC
28:48	DUMP	35:15
25:03	COLLECT	18:36
10:00	WASH	10:00

RESOLUTION (%)
CORN OIL/BEHP = 97.4
BEHP/METHOXYCHLOR = 97.4
PERYLENE/SULFUR = 98.3



10-9-00

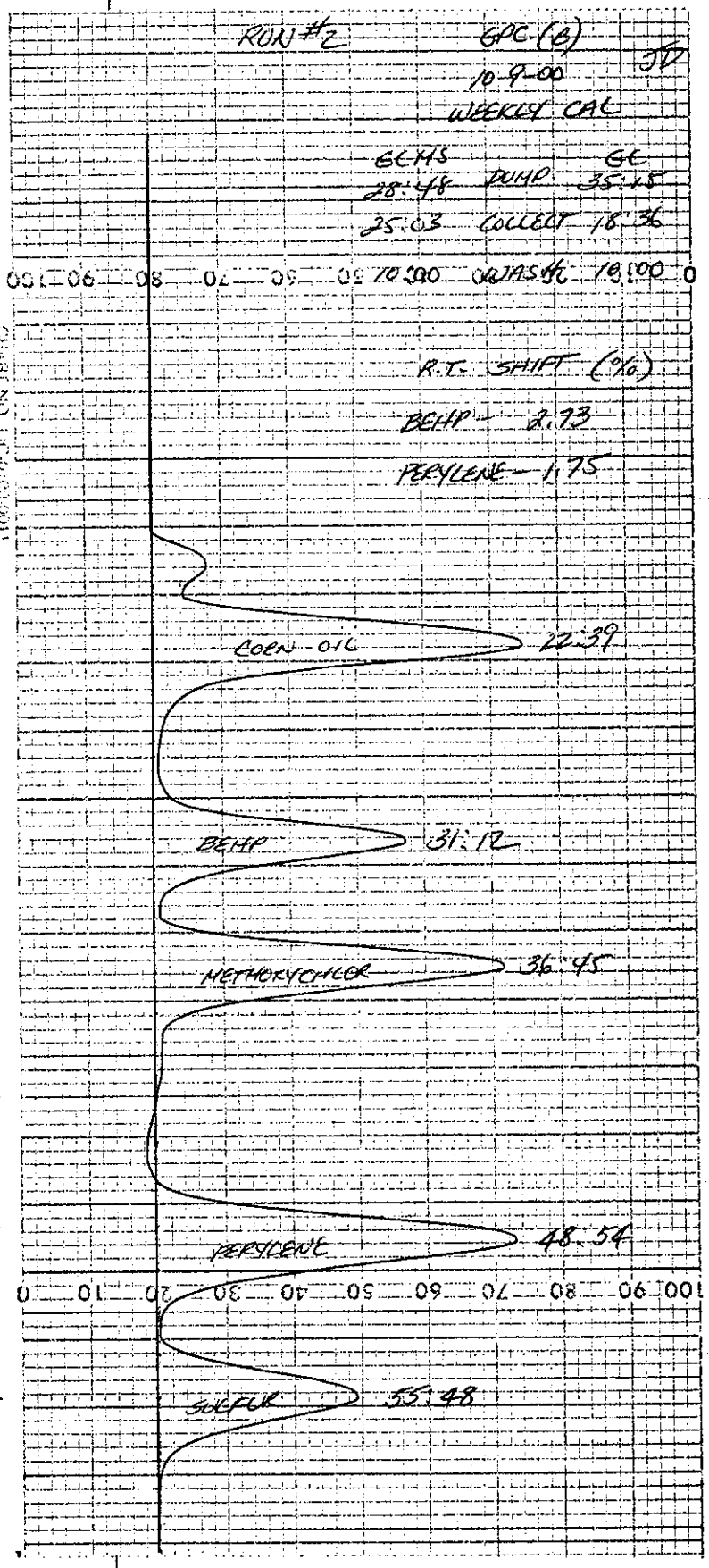
ANALYST: JD

STD ID: 186-16-7

GCMS		GC
28:48	DUMP	35:15
25:03	COLLECT	18:36
10:00	WASH	10:00

start 10/9/00

end 10/16/00

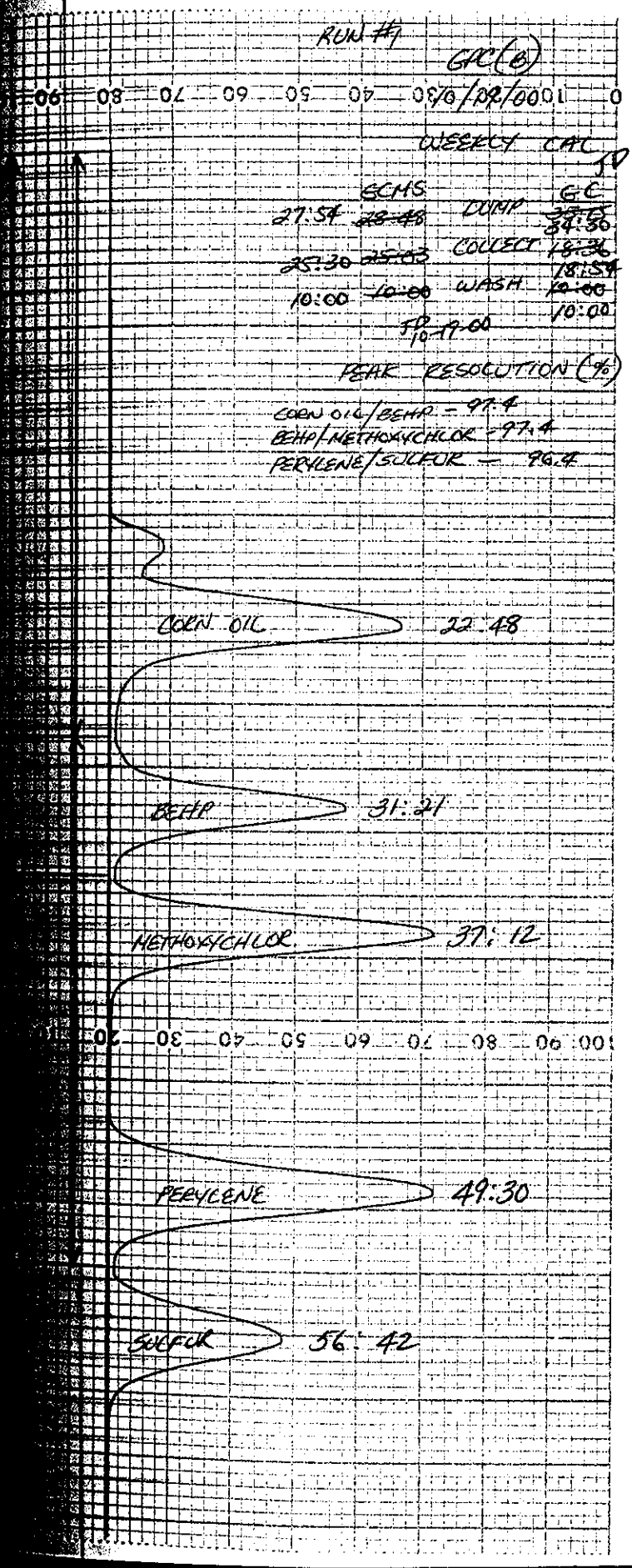


10-9-00

ANALYST: JD

STD ID: 186-16-7

GCMS		GC
28:48	DUMP	35:15
25:03	COLLECT	18:36
10:00	WASH	10:00



16-7

GC
35:15
18:36
10:00

10-19-00

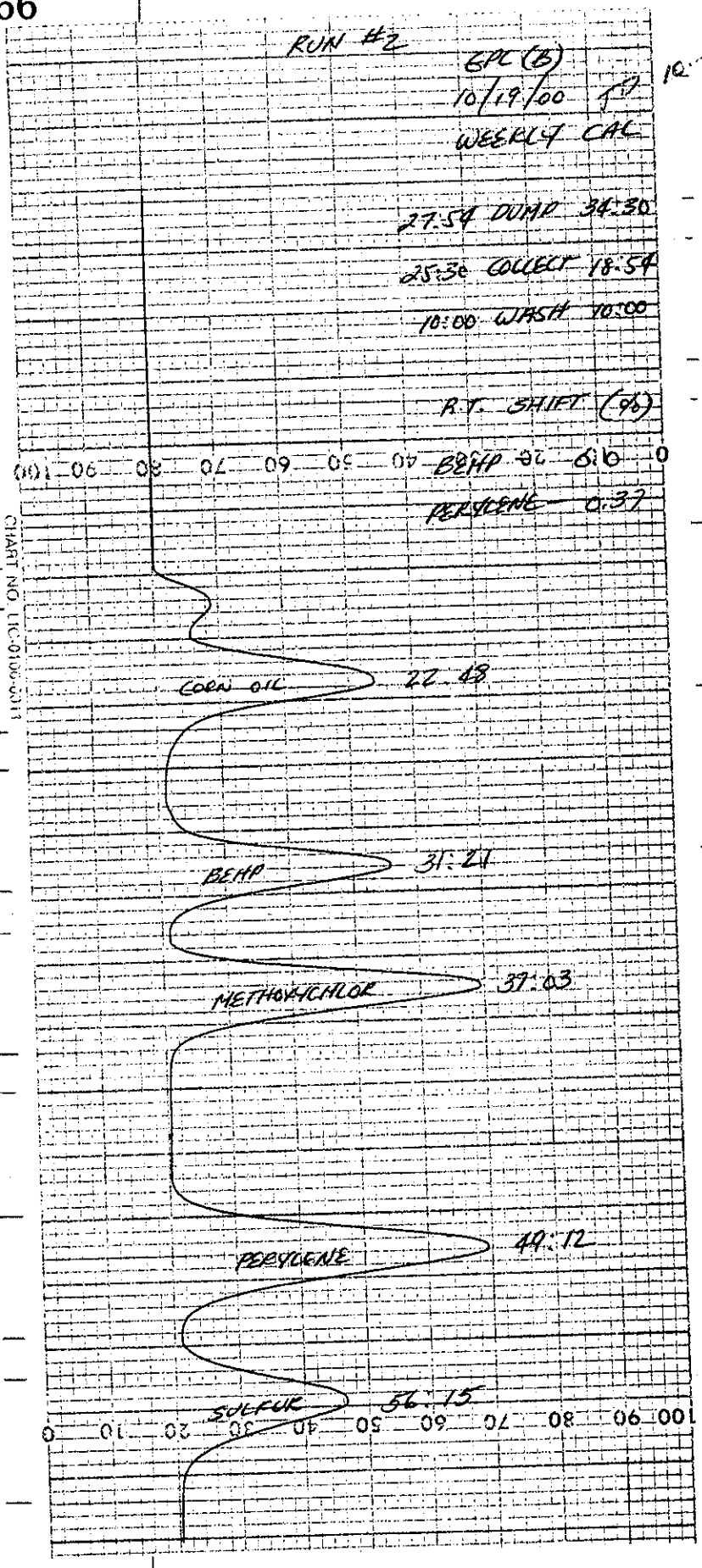
ANALYST: JD

STD ID: 186-16-8

GCMS		GC
27:54	DUMP	34:30
25:30	COLLECT	18:54
10:00	WASH	10:00

START 10-19-00

END 10-26-00



10-19-00

ANALYST: JD

STD ID: 186-16-2

GCMS GC

DUMP

COLLECT

10:00 WASH 10:00

START 10-19-00

END 10-26-00

B#0295166

STL Pittsburgh

STL - Pittsburgh

Sonication Extraction Worksheet

3550B

Logbook ID: OP4

Start Date	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	GPC Number
10-22-00	10-23-00	BNA	OLM04.2	MeCl2/Acetone	T23272/HX51 T11465	Baker/Mall	B

	Lot Number	Sample ID	Client ID	Sample Weight (g)	Final Volume (mL)	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	GPC Date
1.	FOJ200201	Blk	NA	30.0	0.5	77-03-6	0.5	NA	NA	10-22-00
2.		LCS		30.0				77-02-03	0.5	
3.		001 MS ~~LCS Dup~~	CBY 10-22-00	30.0						
4.		001 MSD		30.0				NA	NA	
5.		001		30.0						
6.		002		30.0						
7.										
8.										
9.										
10.										
11.										
12.										
13.										
14.										
15.									P. Yushinski 10-22-00	
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										
Analyst:		PY	PY	PY	PY	JM	BP	BP	BP	BP	PY

Extract(s)

(record line # from above)

All Above
ALL Above
all above

Extract(s) Received

Date	Time	Analyst	Location
10-22-00	1550	P. Yushinski	Org Prep
10-23-00	0700	James Mills	GPC "B"
10-24-00	1300	Don Ferguson	RFO1 BNA

Extract(s) Relinquished

Date	Time	Analyst	Location
10-22-00	1600	P. Yushinski	GPC "B"
10-23-00	1400	James Mills	RFO1-BNA
10-24-00	1530	Don Ferguson	RFO2 BNA

Sodium Sulfate Mfg/Lot Number: Baker T24596

Reviewed by: James Mills

Date: 10-23-00

11157

STL Pittsburgh

Sonication Extraction Worksheet

B# 0299576

STL - Pittsburgh
Logbook ID: OP6

Start Date	Date Completed	Parameter	Method	Solvent	Solvent Lot	Solvent Mfg	GPC Number
10-25-00	10-26-00	CLP BNA	OLM04.2	MeCl/Acetone	T08286/T3145	Baker/Mallinckrodt	"B"

	Lot Number	Sample ID	Client ID	Sample Weight (g)	Final Volume (mL)	Surrogate #	Surr Vol (mL)	Matrix Spike Lot #	MS Vol (mL)	GPC Date
1.	COJ240227	BLK	NA	30.0g	0.5	77-03-07	0.5ml	NA	NA	10-25-00
2.		LCS		30.0g				77-02-03	0.5ml	
3.		001MS		30.0g						
4.		001MSD		30.0g				NA	NA	
5.		001		30.0g						
6.		002		30.0g						
7.	COJ190175	005	R/E	30.0g						
8.	COJ200201	001	R/E	30.0g	0.5					
9.										
10.										
11.										
12.										
13.										
14.										
15.										
16.										
17.										
18.										
19.										
20.										
21.										
22.										
23.										
24.										
Analyst:	B.P.	B.P.	B.P.	B.P.	KG	B.P.	B.P.	B.P.	B.P.	B.P.

B.P. 10-25-00

Extract(s) (record line # from above)	Date	Time	Extract(s) Received	Analyst	Location	Date	Time	Extract(s) Relinquished	Analyst	Location
All Above	10-25-00	1755	Brian Pifer		Org. Prep.	10-25-00	1845	Brian Pifer		GPC "B"
All Above	10-26-00	0900	Ken Zuch		GPC "B"	10-26-00	1110	Ken Zuch		Ret #1 BNA
all above	10-26-00	1910	Don Ferguson		RFO1BNA	10-20-00	1400	Don Ferguson		RFO2BNA

Sodium Sulfate Mfg/Lot Number: Baker/T29628

Reviewed by: Ken Zuch

Date: 10-26-00

Sequence Name: D:\HPCHEM\1\SEQUENCE\D102400.S [redacted]
Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS
Operator: 001562, DLF
Data Path: D:\HPCHEM\1\DATA\d102400.b\
Pre-Seq Cmd:
Post-Seq Cmd:

AXF 10-24-00

CLP2.1
8270c
NEW 5 PT CLP3.2
CLP4.2

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

I.S. = 194-183-6

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	D1024WUP	CLPLOW	warm up 20/80
2	Sample 1127-8.24001	1	D1024DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
3	Sample CLP2.1	2	D1024CCC	CLPLOW	sstd20 (20/80ug/ml) 77-02-15
4	Sample PQT SURR OK	4	D1024002	CLPLOW	c0j100239-020 4x h2o 10/13/00
5	Sample PQT-METHOD BLK	3	D1024001	CLPLOW	c0j100241-sblk h2o 10/13/00 c
6	Sample	6	D1024CC1	70EARLY	SSTD020 (10ug/ml) 77-01-5 827
7	Sample NEW	7	D1024CC2	70EARLY	SSTD050 (25ug/ml) 77-03-1 827
8	Sample 5	8	D1024CC3	70EARLY	SSTD080 (40ug/ml) 77-01-7 827
9	Sample DONT NEED	6	D1024CB1	70EARLY	SSTD020 (10ug/ml) 77-01-5 827
10	Sample POINT	9	D1024CC4	70EARLY	SSTD120 (60ug/ml) 77-01-8 827
11	Sample	10	D1024CC5	70EARLY	SSTD160 (80ug/ml) 77-01-9 827
12	Sample 1644 10-24-001	1	D1024DF2	DFTHP90	dftpp (25ug/ml) 194-175-8
13	Sample CLP3.2/4.2	7	D1024CC7	CLP	SSTD050 (25ug/ml) 77-03-1 827
14	Sample OK	11	D1024003	CLP	std ver
15	Sample PQ-CLEAN	12	D1024004	CLP	c0j200195-sblk soil 10/22/00
NCM 16	Sample Q @1 OK	13	D1024005	CLP	c0j200195-lcs soil 10/22/00 c
17	Sample Q (2) ALL ACIDS	4	D1024006	CLP	c0j200195-001 soil 10/22/00 c
18	Sample Q (2) ALL ACIDS	5	D1024007	CLP CONFIRM	c0j200195-001ms soil 10/22/00
19	Sample Q (2) ALL ACIDS	6	D1024008	CLP	c0j200195-001msd soil 10/22/0
20	Sample PQ-CLEAN	17	D1024009	CLP	c0j190175-sblk soil 10/19/00
21	Sample PQ	18	D1024010	CLP	c0j190175-lcs soil 10/19/00 c
22	Sample PQ	19	D1024011	CLP	c0j190175-001 soil 10/19/00 c
23	Sample PQ	20	D1024012	CLP	c0j190175-001ms soil 10/19/00
24	Sample PQ	21	D1024013	CLP	c0j190175-001msd soil 10/19/0
25	Sample PQ	22	D1024014	CLP	c0j190175-002 soil 10/19/00 c
26	Sample PQ	23	D1024015	CLP	c0j190175-003 5x soil 10/19/0
27	Sample Q TRY ST	24	D1024016	CLP	c0j190175-004 2x soil 10/19/0
28	Sample PQ	25	D1024017	CLP	c0j190175-006 soil 10/19/00 c
29	Sample PQ	26	D1024018	CLP	c0j190175-007 soil 10/19/00 c
30	Sample PQ NRR 2X	27	D1024019	CLP (E)	c0j190175-008 soil 10/19/00 c
31	Sample PQ	28	D1024020	CLP	c0j190175-009 soil 10/19/00 c
32	Sample PQ-CLEAN	29	D1024021	CLP	c0j200201-sblk soil 10/22/00
NCM 33	Sample Q 13	30	D1024022	CLP	c0j200201-lcs soil 10/22/00 c
34	Sample PQ	31	D1024023	CLP.	c0j200201-001 soil 10/22/00 c
35	Sample Q	32	D1024024	CLP	c0j200201-001ms soil 10/22/00
36	Sample	33	D1024025	CLP	c0j200201-001msd soil 10/22/0
37	Sample NRR 4X	34	D1024026	CLP	c0j200201-002 2x soil 10/22/0
38	Sample	35	D1024027	CLP	blank
39	Sample	35	D1024028	CLP	blank

8X higher than sample

SENT FOR REX

out of TUNE TIME

Last Modified: Tue Oct 24 15:48:45 2000 Page: 1

Sequence Name: D:\HPCHEM\1\SEQUENCE\D102500.S[redacted]
Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS
Operator: 001562, DLF
Data Path: D:\HPCHEM\1\DATA\d102500.b\
Pre-Seq Cmd:
Post-Seq Cmd:

DLF 10-25-00

CLP 4.2 & 2.1

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

I.S. -194-183-6

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	D1025WUP	70EARLY	warm up 25
2	Sample	1253 10-25-00	D1025DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
3	Sample	CLP 4.2	2 D1025CCC	CLP	SSTD050 (25ug/ml) 77-03-1 827
4	Sample	CLP 2.1	3 D1025CC2	CLPLOW	sstd20 (20/80ug/ml) 77-02-15
5	Sample	PQ	4 D1025001	CLP	c0j190175-004 soil 10/19/00 c
6	Sample	METHOD BLK	5 D1025002	CLP	c0j190175-sblk soil 10/19/00
7	Sample	PQ	6 D1025003	CLP	c0j190175-008 DL 2x soil 10/19/0 BNE562AC
8	Sample	PQ	7 D1025004	CLP	c0j200201-001msd soil 10/22/0
9	Sample	PQ	8 D1025005	CLP	c0j200201-002 4x soil 10/22/0
10	Sample		9 D1025006	CLP	c0j120207-sblk/re soil 10/18/
11	Sample		10 D1025007	CLP	c0j120207-lcs/re soil 10/18/0
12	Sample		11 D1025008	CLP	c0j120207-002/re 2x soil 10/1
13	Sample		12 D1025009	CLP	c0j120207-002ms/re 2x soil 10
14	Sample		13 D1025010	CLP	c0j120207-002msd/re 2x soil 1
15	Sample		14 D1025011	CLPLOW	c0j120268-sblk h2o 10/17/00 c
16	Sample		15 D1025012	CLPLOW	c0j120268-lcs h2o 10/17/00 cl
17	Sample		16 D1025013	CLPLOW	c0j120268-lcsd h2o 10/17/00 c
18	Sample		17 D1025014	CLPLOW	c0j120268-001 h2o 10/17/00 cl
19	Sample		18 D1025015	CLPLOW	c0j120268-003 h2o 10/17/00 cl
20	Sample		19 D1025016	CLPLOW	c0j120263-003 h2o 10/17/00 cl
21	Sample		20 D1025017	CLPLOW	c0j130219-002 h2o 10/17/00 cl
22	Sample		21 D1025018	CLPLOW	c0j130219-003 h2o 10/17/00 cl
23	Sample		22 D1025019	CLPLOW	c0j130219-009 h2o 10/17/00 cl
24	Sample		23 D1025020	CLPLOW	c0j120302-001 h2o 10/17/00 cl
25	Sample		24 D1025021	CLPLOW	c0j120302-002 h2o 10/17/00 cl
26	Sample		25 D1025022	CLPLOW	blank

DOES NOT MATCH SAMPLE

Last Modified: Wed Oct 25 14:09:38 2000

Sequence Name: D:\HPCHEM\1\SEQUENCE\D102600.S [redacted]
Comment: STL PITT HP5972-1 Log 2ul inj 100ul + 1ul IS
Operator: 001562, DLF
Data Path: D:\HPCHEM\1\DATA\d102600.b\
Pre-Seq Cmd:
Post-Seq Cmd:

DLF 10-26-00

CLP 2.1 4.2 3.2

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	D1026WUP	70EARLY	warm up 25
2	Sample	1	D1026DFT	DFTHP90	dftpp (25ug/ml) 194-175-8
3	Sample	2	D1026CCC	CLP	SSTD050 (25ug/ml) 77-03-1 827
4	Sample	3	D1026CC2	CLPLOW	sstd20 (20/80ug/ml) 77-02-15
5	Sample	4	D1026001	CLPLOW	c0j120268-sblk h2o 10/17/00 c
6	Sample	5	D1026002	CLPLOW	c0j120263-003 5x h2o 10/17/00
7	Sample	1	D1026DF2	DFTHP90	dftpp (25ug/ml) 194-175-8
8	Sample	2	D1026CC3	CLP	SSTD050 (25ug/ml) 77-03-1 827
9	Sample	6	D1026003	CLP	c0j240227-sblk soil 10/25/00
10	Sample	7	D1026004	CLP	c0j240227-lcs soil 10/25/00 c
11	Sample	8	D1026005	CLP	c0j240227-001 soil 10/25/00 c
12	Sample	9	D1026006	CLP	c0j240227-001ms soil 10/25/00
13	Sample	10	D1026007	CLP	c0j240227-001msd soil 10/25/0
14	Sample	11	D1026008	CLP	c0j240227-002 soil 10/25/00 c
15	Sample	12	D1026009	CLP	c0j190175-005 soil 10/25/00 c
16	Sample	13	D1026010	CLP	c0j200201-001 soil 10/25/00 c
17	Sample	14	D1026011	CLP	c0j140138-sblk h2o 10/17/00 c
18	Sample	15	D1026012	CLP	c0j140138-006 h2o 10/17/00 cl
19	Sample	16	D1026013	CLP	c0j160197-001 h2o 10/17/00 cl
20	Sample	17	D1026014	CLP	c0j140138-sblk soil 10/20/00
21	Sample	18	D1026015	CLP	c0j140138-001 2x soil 10/20/0
22	Sample	19	D1026016	CLP	c0j140138-001ms 2x soil 10/20
23	Sample	20	D1026017	CLP	c0j140138-001msd 2x soil 10/2
24	Sample	21	D1026018	CLP	c0j140138-002 soil 10/20/00
25	Sample	22	D1026019	CLP	c0j140138-003 soil 10/20/00 c
26	Sample	23	D1026020	CLP	c0j140138-004 soil 10/20/00 c
27	Sample	24	D1026021	CLP	c0j140138-005 soil 10/20/00 c
28	Sample	25	D1026022	CLP	c0j160197-003 soil 10/20/00 c
29	Sample	26	D1026023	CLP	c0j160197-004 soil 10/20/00 c
30	Sample	27	D1026024	CLP	c0j160197-005 soil 10/20/00 c
31	Sample	28	D1026025	CLP	c0j160197-006 soil 10/20/00 c
32	Sample	29	D1026026	CLP	blank
33	Sample	29	D1026027	CLP	blank
34					

REQUESTED BY: **MATKOL**

METHOD: 00 Semi-Volatile Organic Compounds - CLP (OLM04.2)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION		QTY RCVD	QTY REQD
8C,D	DNHW6-1-AC	___ ___ ___	276230	061313	A-13-00	C0J200201	001		SOLID	QC	0	1 1
8C,D	DNHW7-1-AC	___ ___ ___	276231	061313	A-13-00	C0J200201	002		SOLID		0	1 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
T. Yurkinski	T. Yurkinski	10-22-00 1205
T. Yurkinski	T. Yurkinski	10-22-00 1930

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

REQUESTED BY: **MILLERJ**

METHOD: 00 Semi-Volatile Organic Compounds - CLP (OLM04.2)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
7A	DNE5D-1-AC	___ ___ ___	277099	061313	A-13-00	C0J190175	005		SOLID	0	1 1
8C,D	DNHW6-1-AC	___ ___ ___	277100	061313	A-13-00	C0J200201	001		SOLID	0	1 1
9D,E	DNNGD-1-AC	___ ___ ___	277097	061313	A-13-00	C0J240227	001	QC	SOLID	0	1 1
9D,E	DNNGF-1-AC	___ ___ ___	277098	061313	A-13-00	C0J240227	002		SOLID	0	1 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
Brian A. Pino	Brian A. Pino	10-25-00 1330
Brian A. Pino	Brian A. Pino	10-25-00 2130

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

GENERAL CHEMISTRY DATA

CUMMINGS-RITER CONSULTANTS INC

Client Sample ID: PXS-8A

General Chemistry

Lot-Sample #...: C0J200201-001 Work Order #...: DNHW6 Matrix.....: SOLID
Date Sampled...: 10/19/00 Date Received..: 10/20/00
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	11.0		%	ICLP ILM04.0	10/20-10/21/00	0294227

Dilution Factor: 1 MS Run #.....: 0294097

CUMMINGS-RITER CONSULTANTS INC

Client Sample ID: PXS-9A

General Chemistry

Lot-Sample #...: C0J200201-002 Work Order #...: DNHW7 Matrix.....: SOLID
Date Sampled...: 10/19/00 Date Received..: 10/20/00
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	13.2		%	ICLP ILM04.0	10/20-10/21/00	0294227

Dilution Factor: 1 MS Run #.....: 0294097

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J200201 **Work Order #...:** DNDHG-SMP DNDHG-DUP **Matrix.....:** SOLID

Date Sampled...: 10/17/00 **Date Received..:** 10/18/00

% Moisture.....: 23

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #: C0J180294-018		
	22.7	22.8	%	0.28	(0-0.0)	ICLP ILM04.0	10/20-10/21/00	0294227

Dilution Factor: 1

Prep Date.....: 0294097 Analysis Date..: Prep Batch #...:

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0J200201 **Work Order #...:** DNE4R-SMP DNE4R-DUP **Matrix.....:** SOLID

Date Sampled...: 10/18/00 **Date Received..:** 10/19/00

% Moisture.....: 9.9

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	C0J190175-001	
	9.9	9.5	%	5.0	(0-0.0)	ICLP ILM04.0	10/20-10/21/00	0294227

Dilution Factor: 1

Prep Date.....: 0294097 Analysis Date..: Prep Batch #...:

10016

STL Pittsburgh
TOTAL SOLIDS/PERCENT MOISTURE LOG SHEET

Lot No.	Lot No.	Lot No.	Batch No.
COJ180294	COJ190203-	COJ190196	0294225
COJ190175	205-206-209-	COJ190229	0294227
COJ190286	212 ~~213~~ 214-	COJ200201	0294238
COJ190200	219-221-222-		
	226		

Analyst: CLLoheyde 12:3
In: Date 10-20-00 Time 0930
Out: Date 1021-00 Time 0600
Balance ID #: C94817
Oven Temp: 103°C±2°C

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COJ180294-002	103	1.14	5.93	1.86
-003	108	1.08	5.50	1.62
-004	91	1.04	5.65	2.02
-005	92	1.07	5.77	3.01
~~-006~~				
~~-007~~	VOIDED NOT REQUIRED			
~~-008~~				
~~-009~~				
-010	61	1.06	6.00	1.90
-011	94	1.06	6.67	2.33
-012	93	1.06	6.10	1.78
-013	67	1.08	6.27	2.40
-014	57	1.05	6.47	2.78
-015	80	1.07	6.61	2.72
-016	89	1.06	6.31	1.92
-017	28	1.04	8.66	~~4.80~~
-017D	82	1.01	7.28	3.90
-018	71	1.08	6.41	5.20
018D	101	1.04	6.97	5.62
-020	1	1.04	6.69	2.00
-021	40	1.07	6.03	2.48
-022	74	1.04	6.84	4.09
-023	35	1.06	6.68	5.30
COJ190175-001	50	1.06	6.49	5.95
-001D	65	1.07	6.04	5.57
-002	14	1.06	7.75	2.04
-003	34	1.06	10.42	9.49
-004	85	1.07	6.25	5.63
-005	48	1.06	5.97	5.44
-006	2	1.06	6.83	6.19
-007	29	1.06	6.61	5.85
-008	62	1.07	6.58	5.98
-009	106	1.04	5.95	5.32
COJ190286-001	21	1.05	7.49	5.60
COJ190200-001	46	1.05	6.11	6.06
COJ190203-001	12	1.05	6.06	5.89

SAMPLE ID	TARE NO.	TARE	SAMPLE + TARE	DRIED SAMPLE + TARE
COJ190205-001	87	1.07	6.41	4.40
206	107	1.04	6.14	5.35
209	70	1.07	6.75	5.17
212	37	1.11	6.49	5.56
~~213~~	No Sample Available			
214	45	1.04	6.21	5.80
219	5	1.05	6.41	4.55
221	109	1.04	6.26	~~5.85~~ 3.94
222	43	1.03	6.15	5.83
226	81	1.04	6.09	4.15
226 Dup	77	1.04	6.55	4.54
COJ190196-001	32	1.06	6.95	6.18
-002	13	1.05	6.38	5.56
-003	86	1.05	5.92	5.40
-004	102	1.03	7.22	6.69
-005	21C	1.13	6.09	5.49
COJ190229-001	20	1.04	6.01	5.18
COJ200201-001	15	1.04	6.97	6.32
-002	E1	1.13	7.78	6.90

STL - Pittsburgh WATER CONTENT SHEET

:ET NUM 0010016
TESTED: CLL 10/20/00
CHECKED: EW 10/21/00

CREATED: 10/21/00 10:26:07 AM
REVISED: 10/21/00 10:29:26 AM

COMMENTS:
C0J180294 C0J190175 C0J190286 C0J190200 C0J190203-205-206-209-212-214-219-221-222-226 C0J190196 C0J190229 C0J200201

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.
C0J180294	002	SMP	103	1.14	5.93	1.85	9:30	6:00	4.08	85.177	14.823
C0J180294	003	SMP	108	1.08	5.5	1.62	9:30	6:00	3.88	87.783	12.217
C0J180294	004	SMP	91	1.04	5.65	2.02	9:30	6:00	3.63	78.742	21.258
C0J180294	005	SMP	92	1.07	5.77	3.01	9:30	6:00	2.76	58.723	41.277
C0J180294	010	SMP	61	1.06	6	1.9	9:30	6:00	4.1	82.996	17.004
C0J180294	011	SMP	94	1.06	6.67	2.33	9:30	6:00	4.34	77.362	22.638
30294	012	SMP	93	1.06	6.1	1.78	9:30	6:00	4.32	85.714	14.286
C0J180294	013	SMP	67	1.08	6.27	2.4	9:30	6:00	3.87	74.566	25.434
C0J180294	014	SMP	57	1.05	6.47	2.78	9:30	6:00	3.69	68.081	31.919
C0J180294	015	SMP	80	1.07	6.61	2.72	9:30	6:00	3.89	70.217	29.783
C0J180294	016	SMP	89	1.06	6.31	1.92	9:30	6:00	4.39	83.619	16.381
C0J180294	017	SMP	28	1.04	8.66	4.8	9:30	6:00	3.86	50.656	49.344
C0J180294	017D	SMP	82	1.07	7.28	3.9	9:30	6:00	3.38	54.428	45.572
C0J180294	018	SMP	71	1.08	6.41	5.2	9:30	6:00	1.21	22.702	77.298
C0J180294	018D	SMP	101	1.04	6.97	5.62	9:30	6:00	1.35	22.766	77.234
C0J180294	020	SMP	1	1.04	6.69	2	9:30	6:00	4.69	83.009	16.991
C0J180294	021	SMP	40	1.07	6.03	2.48	9:30	6:00	3.55	71.573	28.427
C0J180294	022	SMP	74	1.04	6.84	4.09	9:30	6:00	2.75	47.414	52.586

RPD 7.2%
RPD 1.28%

STL - Pittsburgh WATER CONTENT SHEET

.ET NUM 0010016
TESTED: CLL 10/20/00
CHECKED: ELW 10/21/00

CREATED: 10/21/00 10:26:07 AM
REVISED: 10/21/00 10:29:26 AM

COMMENTS:
C0J180294 C0J190175 C0J190286 C0J190200 C0J190203-205-206-209-212-214-219-221-222-226 C0J190196 C0J190229 C0J200201

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.
C0J180294	023	SMP	35	1.06	6.68	5.3	9:30	6:00	1.38	24.555	75.445
C0J190175	001	SMP	50	1.06	6.49	5.95	9:30	6:00	0.54	9.945	90.055
C0J190175	001D	SMP	65	1.07	6.04	5.57	9:30	6:00	0.47	9.457	90.543
C0J190175	002	SMP	14	1.06	7.75	7.04	9:30	6:00	0.71	10.613	89.387
C0J190175	003	SMP	34	1.06	10.42	9.49	9:30	6:00	0.93	9.936	90.064
C0J190175	004	SMP	85	1.07	6.25	5.63	9:30	6:00	0.62	11.969	88.031
90175	005	SMP	48	1.06	5.97	5.44	9:30	6:00	0.53	10.794	89.206
C0J190175	006	SMP	2	1.06	6.83	6.19	9:30	6:00	0.64	11.092	88.908
C0J190175	007	SMP	29	1.06	6.61	5.85	9:30	6:00	0.76	13.694	86.306
C0J190175	008	SMP	62	1.07	6.58	5.98	9:30	6:00	0.6	10.889	89.111
C0J190175	009	SMP	106	1.04	5.95	5.32	9:30	6:00	0.63	12.831	87.169
C0J190286	001	SMP	21	1.05	7.49	5.6	9:30	6:00	1.89	29.348	70.652
C0J190200	001	SMP	46	1.05	6.11	6.06	12:30	6:00	0.05	0.988	99.012
C0J190203	001	SMP	12	1.05	6.06	5.89	12:30	6:00	0.17	3.393	96.607
C0J190205	001	SMP	87	1.07	6.41	4.4	12:30	6:00	2.01	37.64	62.36
C0J190206	001	SMP	107	1.04	6.14	5.35	12:30	6:00	0.79	15.49	84.51
C '190209	001	SMP	70	1.07	6.75	5.17	12:30	6:00	1.58	27.817	72.183
C0J190212	001	SMP	37	1.11	6.49	5.56	12:30	6:00	0.93	17.296	82.714

RPD 5.09

STL - Pittsburgh WATER CONTENT SHEET

EET NUM 0010016
TESTED: CLL 10/20/00
CHECKED: ELW 10/21/00

CREATED: 10/21/00 10:26:07 AM
REVISED: 10/21/00 10:29:26 AM

COMMENTS:
C0J180294 C0J190175 C0J190286 C0J190200 C0J190203-205-206-209-212-214-219-221-222-226 C0J190196 C0J190229 C0J200201

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.
C0J190214	001	SMP	45	1.04	6.21	5.8	12:30	6:00	0.41	7.93	92.07
C0J190219	001	SMP	5	1.05	6.41	4.55	12:30	6:00	1.86	34.701	65.299
C0J190221	001	SMP	109	1.04	6.26	3.94	12:30	6:00	2.32	44.444	55.556
C0J190222	001	SMP	43	1.03	6.15	5.83	12:30	6:00	0.32	6.25	93.75
C0J190226	001	SMP	81	1.04	6.09	4.15	12:30	6:00	1.94	38.416	61.584
C0J190226	001D	SMP	77	1.04	6.55	4.54	12:30	6:00	2.01	36.479	63.521
90196	~~002~~ 001	SMP	32	1.06	6.95	6.18	12:30	6:00	0.77	13.073	86.927
C0J190196	~~003~~ 002	SMP	13	1.05	6.38	5.56	12:30	6:00	0.82	15.385	84.615
C0J190196	~~004~~ 003	SMP	86	1.05	5.92	5.4	12:30	6:00	0.52	10.678	89.322
C0J190196	~~005~~ 004	SMP	102	1.03	7.22	6.69	12:30	6:00	0.53	8.562	91.438
C0J190196	005	SMP	21C	1.13	6.09	5.49	12:30	6:00	0.6	12.097	87.903
C0J190229	001	SMP	20	1.04	6.01	5.18	12:30	6:00	0.83	16.7	83.3
C0J200201	001	SMP	15	1.04	6.97	6.32	12:30	6:00	0.65	10.961	89.039
C0J200201	002	SMP	E1	1.13	7.78	6.9	12:30	6:00	0.88	13.233	86.767

CLL 10/21/00

RPD 3.107

REQUESTED BY: **LOHEYDEC**

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
7D	DNFX0-1-AX	___ ___ ___	275375	020247	A-88-SM	C0J190286	001		SOLID	0	3	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	10/20/00 0530
[signature]	[signature]	10/20/00 1000

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

REQUESTED BY: **LOHEYDEC**

METHOD: OV Moisture, Percent (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
6D	DNDFH-1-A7	___ ___ ___	275389	375241	A-88-OV	C0J180294	002		SOLID	0	3 1
6D	DNDFQ-1-AJ	___ ___ ___	275390	375241	A-88-OV	C0J180294	003		SOLID	0	3 1
6D	DNDFV-1-AT	___ ___ ___	275391	375241	A-88-OV	C0J180294	004		SOLID	0	3 1
6D	DNDFX-1-A3	___ ___ ___	275392	375241	A-88-OV	C0J180294	005		SOLID	0	3 1
6D	DNDF1-1-A4	___ ___ ___	275393	375241	A-88-OV	C0J180294	006		SOLID	0	2 1
6D	DNDF7-1-AF	___ ___ ___	275394	375241	A-88-OV	C0J180294	007		SOLID	0	2 1
6D	DNDF9-1-AL	___ ___ ___	275395	375241	A-88-OV	C0J180294	008		SOLID	0	2 1
6D	DNDGA-1-AR	___ ___ ___	275396	375241	A-88-OV	C0J180294	009		SOLID	0	2 1
6D	DNDGF-1-AJ	___ ___ ___	275397	375241	A-88-OV	C0J180294	010		SOLID	0	3 1
6D	DNDGJ-1-AJ	___ ___ ___	275398	375241	A-88-OV	C0J180294	011		SOLID	0	3 1
6D	DNDGK-1-AJ	___ ___ ___	275399	375241	A-88-OV	C0J180294	012		SOLID	0	3 1
6D	DNDGP-1-AJ	___ ___ ___	275400	375241	A-88-OV	C0J180294	013		SOLID	0	3 1
6D	DNDG1-1-AJ	___ ___ ___	275401	375241	A-88-OV	C0J180294	014		SOLID	0	3 1
6D	DNDG6-1-AJ	___ ___ ___	275402	375241	A-88-OV	C0J180294	015		SOLID	0	3 1
6D	DNDG7-1-AJ	___ ___ ___	275403	375241	A-88-OV	C0J180294	016		SOLID	0	3 1
6D	DNDG8-1-A1	___ ___ ___	275404	375241	A-88-OV	C0J180294	017		SOLID	0	9 2
6D	DNDHG-1-A1	___ ___ ___	275405	375241	A-88-OV	C0J180294	018		SOLID	0	9 2
6D	DNDHX-1-AJ	___ ___ ___	275406	375241	A-88-OV	C0J180294	020		SOLID	0	3 1
6D	DNDH2-1-AT	___ ___ ___	275407	375241	A-88-OV	C0J180294	021		SOLID	0	3 1
6D	DNDH3-1-A3	___ ___ ___	275408	375241	A-88-OV	C0J180294	022		SOLID	0	3 1
6D	DNDH6-1-AE	___ ___ ___	275409	375241	A-88-OV	C0J180294	023		SOLID	0	3 1

10-20-00

REQUESTED BY: **LOHEYDEC**

METHOD: OV Moisture, Percent (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	102000 0530
[signature]	[signature]	10-20-00 1000

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

REQUESTED BY: **LOHEYDEC**

METHOD: OV Moisture, Percent (CLP)

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
7A	DNE4R-1-AA		275410	061313	A-88-OV	C0J190175	001		SOLID	0	3 2
7A	DNE45-1-AA		275411	061313	A-88-OV	C0J190175	002		SOLID	0	1 1
7A	DNE48-1-AA		275412	061313	A-88-OV	C0J190175	003		SOLID	0	1 1
7A	DNE5A-1-AA		275413	061313	A-88-OV	C0J190175	004		SOLID	0	1 1
7A	DNE5D-1-AA		275414	061313	A-88-OV	C0J190175	005		SOLID	0	1 1
7A	DNE5E-1-AA		275415	061313	A-88-OV	C0J190175	006		SOLID	0	1 1
7A	DNE5F-1-AA		275416	061313	A-88-OV	C0J190175	007		SOLID	0	1 1
7A	DNE5G-1-AA		275417	061313	A-88-OV	C0J190175	008		SOLID	0	1 1
7A	DNE5J-1-AA		275418	061313	A-88-OV	C0J190175	009		SOLID	0	1 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	102000 0530
[signature]	[signature]	102000 1000

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

REQUESTED BY: **LOHEYDEC**

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
7C	DNE9J-1-AA		275376	105611	A-88-SM	C0J190200	001		SOLID	1	1
7C,D CLP1	DNE9V-1-AF		275377	027262	A-88-SM	C0J190203	001		SOLID	2	1
7C,D CLP1	DNE95-1-AF		275378	027262	A-88-SM	C0J190205	001		SOLID	2	1
7C,D CLP1	DNFAJ-1-AF		275379	027262	A-88-SM	C0J190206	001		SOLID	2	1
7C,D CLP1	DNFCC-1-AF		275380	027262	A-88-SM	C0J190209	001		SOLID	2	1
7C,D CLP1	DNFCL-1-AF		275381	027262	A-88-SM	C0J190212	001		SOLID	2	1
7C,D CLP1	DNFDK-1-AF		275382	027262	A-88-SM	C0J190213	001		SOLID no spike	2	1
7C,D CLP1	DNFDX-1-AF		275383	027262	A-88-SM	C0J190214	001		SOLID	2	1
7C,D CLP1	DNFFT-1-AF		275385	027262	A-88-SM	C0J190221	001		SOLID	2	1
7C,D CLP1	DNFF1-1-AF		275386	027262	A-88-SM	C0J190222	001		SOLID	2	1
CLP1	DNFF8-1-AF		275387	027262	A-88-SM	C0J190226	001		SOLID	2	1
7C,D CLP1	DNFGH-1-AA		275388	422326	A-88-SM	C0J190229	001		SOLID	4	1
7C,D, CLP1	DNFFJ-1-AF		275384	027262	A-88-SM	C0J190219	001		SOLID	2	1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
[signature]	[signature]	102000 1200
[signature]	[signature]	102000 1240

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

REQUESTED BY: **LOHEYDEC**

METHOD: SM Solids, Percent (as TS - 160.3 MOD) - Solids

STORAGE LOCATION	WORK ORDER #	PICKED CNTR#	CONTROL #	CLIENT #	ANALYSIS	LOTID	SMP#	SFX	MATRIX DESCRIPTION	QTY RCVD	QTY REQD
7C CLP1	DNE8J-1-AA		275736	396447	A-88-SM	C0J190196	001		SOLID	0	1 1
7C CLP1	DNE8P-1-AA		275737	396447	A-88-SM	C0J190196	002		SOLID	0	1 1
7C CLP1	DNE8R-1-AA		275738	396447	A-88-SM	C0J190196	003		SOLID	0	1 1
7C CLP1	DNE8X-1-AA		275739	396447	A-88-SM	C0J190196	004		SOLID	0	1 1
7C CLP1	DNE83-1-AA		275740	396447	A-88-SM	C0J190196	005		SOLID	0	1 1
7C,D CLP1	DNFGH-1-AA		275741	422326	A-88-SM	C0J190229	001		SOLID	0	4 1

RELINQUISHED BY	RECEIVED BY	DATE/TIME
		102000 1200
		102000 1240

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