ACCUTEST

TABLE OF CONTENTS
FULL LABORATORY DATA DELIVERABLES

1. TITLE / COVER PAGE

2. TABLE OF CONTENTS

3. RESULTS SUMMARY

4. CUSTODY DOCUMENTATION

5. CASE NARRATIVE

6. GC/MS SUPPORT DATA (SW846- METHOD 8260)

6.1	Sample Result Summary	VOC.01
6.2	Surrogate Recoveries Summary	VOC.02
6.3	Matrix Spike / Matrix Spike Duplicate / Blank Spike Summary	VOC.03
6.4	Method Blank Summary	VOC.04
6.5	Tune Summary	VOC.05
6.6	Initial Calibration Summary	VOC.06
6.7	Continuing Calibration Summary	VOC.07
6.8	Internal Standard/ RT Summary	VOC.08
6.9	Sequence Log Summary	VOC.09

7. GC/MS SUPPORT DATA (SW846- METHOD 8015)

7.1	Sample Result Summary	VGC.01
7.2	Surrogate Recoveries Summary	VGC.02
7.3	Matrix Spike / Matrix Spike Duplicate / Blank Spike Summary	VGC.03
7.4	Method Blank Summary	VGC.04
7.5	Initial Calibration Summary	VGC.05
7.6	Continuing Calibration Summary	VGC.06
7.7	Internal Standard/ RT Summary	VGC.07
7.8	Sequence Log Summary	VGC.08

8. GC SUPPORT DATA (SW846- METHOD 8081)

8.1	Sample Result Summary	SGC.01
8.2	Surrogate Recoveries Summary	SGC.02
8.3	Matrix Spike / Matrix Spike Duplicate / Blank Spike Summary	SGC.03
8.4	Method Blank Summary	SGC.04
8.5	Initial Calibration Summary	SGC.05
8.6	Continuing Calibration Summary	SGC.06
8.7	Sequence Log Summary	SGC.07
8.8	Extraction Log Summary	SGC.08

9. GC SUPPORT DATA (SW846- METHOD 8015M)

9.1	Sample Result Summary	SGC.01
9.2	Surrogate Recoveries Summary	SGC.02
9.3	Matrix Spike / Matrix Spike Duplicate / Blank Spike Summary	SGC.03
9.4	Method Blank Summary	SGC.04

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9.5	Initial Calibration Summary	SGC.05
9.6	Continuing Calibration Summary	SGC.06
9.7	Sequence Log Summary	SGC.07
9.8	Extraction Log Summary	SGC.08

10. GEN. CHEM. SUPPORT DATA

10.1	Sample Result Summary	GEN.01
10.2	Calibration Standard Summary	GEN.02
10.3	Method Blank Summary	GEN.03
10.4	Spike Sample Recovery Summary	GEN.04
10.5	Laboratory Duplicate Summary	GEN.05
10.6	Laboratory Control Sample Summary	GEN.06

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Sample Summary

IT Corporation

Bainbridge

Job No: F4929

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F4929-1	09/22/99	10:10 SS	09/23/99	AQ	Ground Water	GP.10.01

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Report of Analysis

Client Sample ID:	GP.10.01		
Lab Sample ID:	F4929-1	**Date Sampled:**	09/22/99
Matrix:	AQ - Ground Water	**Date Received:**	09/23/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0010596.D	1	09/24/99	CJP	n/a	n/a	VG289
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		80-116%
17060-07-0	1,2-Dichloroethane-D4	100%		74-120%
2037-26-5	Toluene D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	101%		86-115%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	GP.10.01		
Lab Sample ID:	F4929-1	**Date Sampled:**	09/22/99
Matrix:	AQ - Ground Water	**Date Received:**	09/23/99
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	UV000098.D	1	09/27/99	RAW	n/a	n/a	GUV1
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		75-125%
98-08-8	aaa-Trifluorotoluene	100%		75-125%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	GP.10.01		
Lab Sample ID:	F4929-1	**Date Sampled:**	09/22/99
Matrix:	AQ - Ground Water	**Date Received:**	09/23/99
Method:	SW846 3510C/8081A	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST00706.D	1	09/27/99	SKW	09/27/99	OP956	GST28
Run #2							

Pesticide TCL List

CAS No.	Compound	Result	RDL	Units	Q
309-00-2	Aldrin	ND	0.050	ug/l	
319-84-6	alpha-BHC	ND	0.050	ug/l	
319-85-7	beta-BHC	ND	0.050	ug/l	
319-86-8	delta-BHC	ND	0.050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	ug/l	
5103-71-9	alpha-Chlordane	ND	0.10	ug/l	
5103-74-2	gamma-Chlordane	ND	0.10	ug/l	
60-57-1	Dieldrin	ND	0.050	ug/l	
72-54-8	4,4'-DDD	ND	0.10	ug/l	
72-55-9	4,4'-DDE	ND	0.10	ug/l	
50-29-3	4,4'-DDT	ND	0.10	ug/l	
72-20-8	Endrin	ND	0.10	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	ug/l	
53494-70-5	Endrin ketone	ND	0.10	ug/l	
959-98-8	Endosulfan-I	ND	0.050	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	ug/l	
76-44-8	Heptachlor	ND	0.050	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	ug/l	
72-43-5	Methoxychlor	ND	0.20	ug/l	
8001-35-2	Toxaphene	ND	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		30-160%
2051-24-3	Decachlorobiphenyl	43%		30-160%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	GP.10.01		
Lab Sample ID:	F4929-1	**Date Sampled:**	09/22/99
Matrix:	AQ - Ground Water	**Date Received:**	09/23/99
Method:	SW846 8015 M	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	OP05297.D	1	09/27/99	ME	09/27/99	OP986	GOP254
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C10-C28)	ND	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		40-140%

(a) Sample not preserved, adjusted to pH < 2 prior to extraction.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	GP.10.01		
Lab Sample ID:	F4929-1	**Date Sampled:**	09/22/99
Matrix:	AQ - Ground Water	**Date Received:**	09/23/99
		Percent Solids:	n/a
Project:	Bainbridge		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By	Method
Turbidity	49800	2000	NTU	2000	09/24/99 EP	EPA 180.1

RDL = Reported Detection Limit

N2008

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 559858
Page 1 of 1

Project Name/No. [1] Saundridge
Sample Team Members [2] Seger
Profit Center No. [3] —
Project Manager [4] L Stearns
Purchase Order No. [6]
Required Report Date [11] 3 days

Samples Shipment Date [7] 9-22-99
Lab Destination [8] Accutest
Lab Contact [9] (407) 425-6700
Project Contact/Phone [12] Dick Treater (410) 378-3450
Carrier/Waybill No. [13] FEDEX 790302084696

Bill to: [5] IT Corp 2790 Mosside Blvd Monroeville, PA 15146
Fax to (412) 380-0699
Report to: [10] Larry Stearns IT Corp 2790 Mosside Blvd Monroeville PA 15146

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
G.P.10.01	Groundwater	9/22/99 10:10	Amber 2 plastic 1	40ml x 4 1L amber 2 500ml	HCL — —	BTEX, GRO, SVOC, 8015, Perkins, DRO (NJ), Turbidity, Cl, Br, NO3	Intact, 4°C	

Special Instructions: [23] Fax Results to Larry Stearns (412) 380-0699 3 day TAT

Possible Hazard Identification: [24] Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25] Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

Turnaround Time Required: [26] Normal ☐ Rush ☒ 3 day

QC Level: [27] I. ☐ II. ☐ III. ☒ Project Specific (specify): Navy NFESC Level C

1. Relinquished by [28] (Signature/Affiliation) Susan Seger	Date: 9-22-99 Time: 1130	1. Received by [28] (Signature/Affiliation) Received Air.	Date: 9-23-99 Time: 1000
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29] Also fax results to Dick Treater + Frank Zepka (410) 378-3232 (302) 433-7018

Yellow: Field copy

MCA 3/15/9

Accutest Laboratories Southeast
Case Narrative

Job (SDG) No.: F4929

Samples: 1

Analysis Performed: Geo COC

1) Sample Receipt Conformance / Non-Conformance Summary

Custody Seals on Coolers?	Yes (✓)	No ( )
Custody Seals in Tact?	Yes (✓)	No ( )
Chain of Custody Sealed in Plastic?	Yes (✓)	No ( )
Chain of Custody Filled out Properly?	Yes (✓)	No ( )
Enough ice and Packing material?	Yes (✓)	No ( )
All Bottles Sealed?	Yes (✓)	No ( )
Any Bottles Broken?	Yes ( )	No (✓)
Labels in good condition?	Yes (✓)	No ( )
Labels agree with chain of custody?	Yes (✓)	No ( )
Correct Containers Used?	Yes (✓)	No ( )
Preserved Properly?	Yes (✓)	No ( )
Sufficient Sample?	Yes (✓)	No ( )

Comments:

ORGANICS RUN NARRATIVE

Instrument MS - G

Date 9-27-99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

✓

Continuing Calibration Check(s) met method criteria except as noted:

N/A

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

N/A

Method blank met method criteria except as noted:

✓

QC Samples met method criteria except as noted.

N/A

Note any unusual run occurrences below:

none

000011

Analyst Claudia J Parrish

Reviewer RAW

ORGANICS RUN NARRATIVE

Instrument MS-G Date 9-10-99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

\

Continuing Calibration Check(s) met method criteria except as noted:

N/A

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

N/A

Method blank met method criteria except as noted:

\

QC Samples met method criteria except as noted:

N/A

Note any unusual run occurrences below:

none.

000012

Reviewer ZAIN

ORGANICS RUN NARRATIVE

Instrument GC-UV Date 9-27-99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

✓

Continuing Calibration Check(s) met method criteria except as noted:

✓

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

✓

Method blank met method criteria except as noted:

✓

QC Samples met method criteria except as noted:

N/A

Note any unusual run occurrences below:

NONE

000013

Analyst RAN Reviewer

ORGANICS RUN NARRATIVE

Instrument ECD3 Date 9-27-99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

✓

Continuing Calibration Check(s) met method criteria except as noted:

✓

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

✓

Method blank met method criteria except as noted:

✓

QC Samples met method criteria except as noted:

✓

Note any unusual run occurrences below:

NA

030614

Sol

ORGANICS RUN NARRATIVE

Instrument (A) 9/2 FID2 Date 9/24/97

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

Continuing Calibration Check(s) met method criteria except as noted:

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

Method blank met method criteria except as noted:

QC Samples met method criteria except as noted:

Note any unusual run occurrences below:

N/A

000015

ORGANICS RUN NARRATIVE

Instrument FID2 Date 9/28/99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

Continuing Calibration Check(s) met method criteria except as noted:

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

Method blank met method criteria except as noted:

QC Samples met method criteria except as noted:

Note any unusual run occurrences below:

N/A

Analyst [signature] Reviewer [signature]

SAMPLE RESULT SUMMARY

Report of Analysis

Client Sample ID:	GP.10.01		
Lab Sample ID:	F4929-1	**Date Sampled:**	09/22/99
Matrix:	AQ - Ground Water	**Date Received:**	09/23/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0010596.D	1	09/24/99	CJP	n/a	n/a	VG289
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		80-116%
17060-07-0	1,2-Dichloroethane-D4	100%		74-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	101%		86-115%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092499\G0010596.D Vial: 4
Acq On : 24 Sep 1999 11:12 am Operator: ClaudiaP
Sample : F4929-1,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 13:02 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.99	96	3274546	25.00 ug/L	0.00
39) Chlorobenzene-d5	16.09	117	2380385	25.00 ug/L	0.00
57) 1,4-Dichlorobenzene-d4	20.26	152	1437580	25.00 ug/L	0.02

System Monitoring Compounds

25) Dibromofluoromethane	9.90	113	1581873	46.58	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 93.16%		
28) 1,2-Dichloroethane-d4	10.44	65	938065	50.21	-0.01
Spiked Amount 50.000	Range 74 - 120		Recovery = 100.42%		
40) Toluene-d8	13.63	98	3095653	49.75	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.50%		
59) 4-Bromofluorobenzene	18.16	95	1564753	50.36	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.72%		

Target Compounds Qvalue

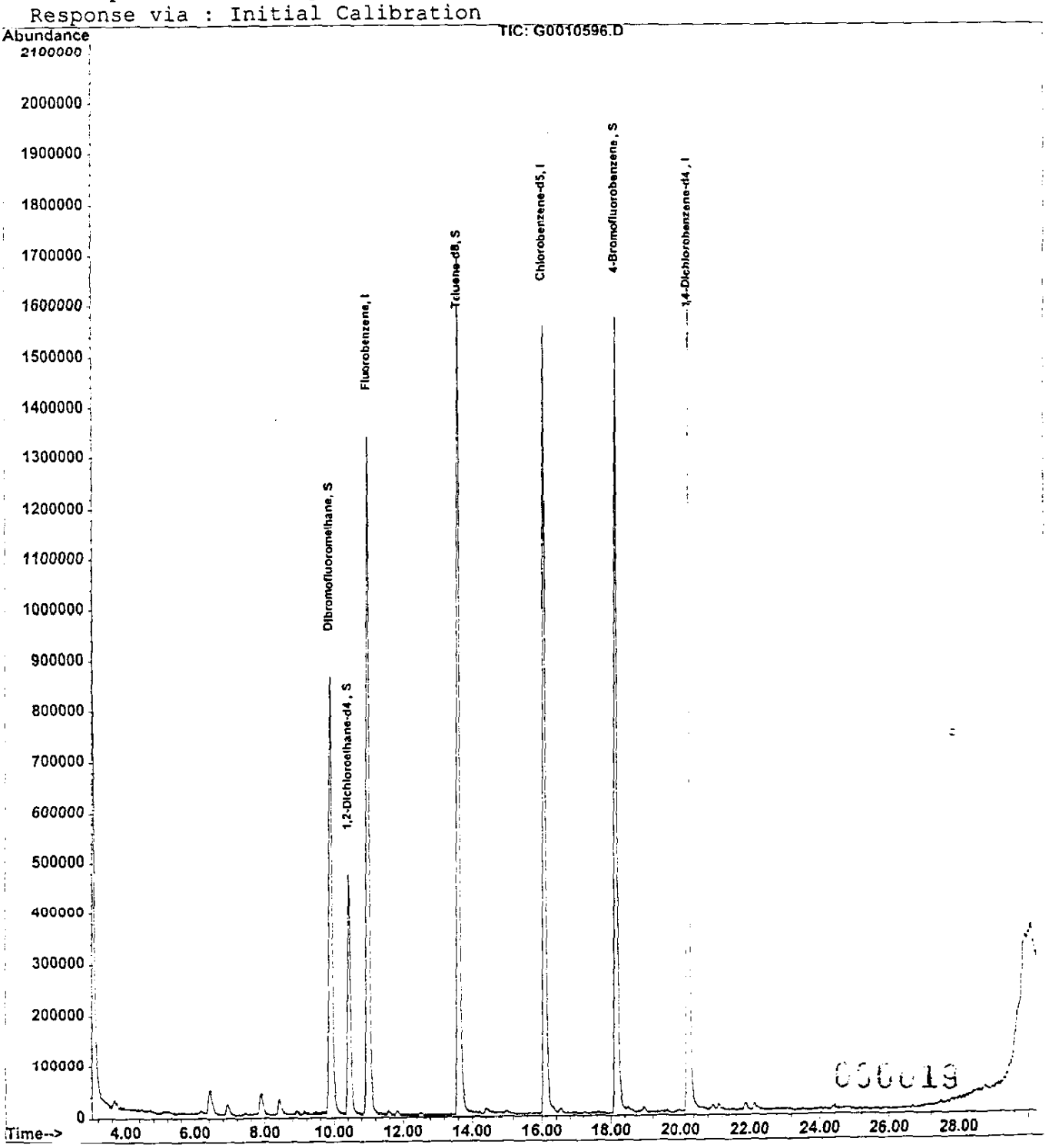
000015

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092499\G0010596.D Vial: 4
Acq On : 24 Sep 1999 11:12 am Operator: ClaudiaP
Sample : F4929-1,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 13:02 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



000019

SURROGATE RECOVERIES SUMMARY

VOC.02

Volatile Surrogate Recovery Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F4929-1	G0010596.D	93.0	100.0	100.0	101.0
F4907-1DUP	G0010581.D	93.0	111.0	102.0	102.0
F4907-4MS	G0010590.D	97.0	111.0	103.0	100.0
F4907-4MSD	G0010591.D	97.0	101.0	103.0	97.0
VG289-BS	G0010592.D	96.0	98.0	103.0	100.0
VG289-MB	G0010565.D	94.0	108.0	101.0	102.0
VG289-MB	G0010584.D	95.0	98.0	102.0	100.0
VG289-MB	G0010595.D	94.0	92.0	100.0	101.0
VG289-MB	G0010599.D	94.0	98.0	103.0	103.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-116%
S2 = 1,2-Dichloroethane-D4	74-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	86-115%

MATRIX SPIKE/ MATRIX SPIKE DUPLICATE/ BLANK SPIKE SUMMARY

Blank Spike Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG289-BS	G0010592.D	1	09/23/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4929-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	50.8	102	64-127
100-41-4	Ethylbenzene	50	50.6	101	75-125
108-88-3	Toluene	50	53.1	106	74-125
	m,p-Xylene	100	105	105	79-125
95-47-6	o-Xylene	50	52.4	105	79-125

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53 7	Dibromofluoromethane	96%	80-116%
17060-07-0	1,2-Dichloroethane-D4	98%	74-120%
2037-26-5	Toluene-D8	103%	80-120%
460-00-4	4-Bromofluorobenzene	100%	86-115%

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010592.D Vial: 16
Acq On : 23 Sep 1999 3:25 pm Operator: ClaudiaP
Sample : BS,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) 1,2-Dibromo-3-Chloropropan	22.40	75	293502	50.67 ug/L	94
76) 1,2,4-Trichlorobenzene	24.13	180	2902881	52.72 ug/L	95
77) Hexachlorobutadiene	24.54	225	2098589	52.10 ug/L	92
78) Naphthalene	24.68	128	3100097	51.94 ug/L	98
79) 1,2,3-Trichlorobenzene	25.30	180	2411802	50.96 ug/L	94

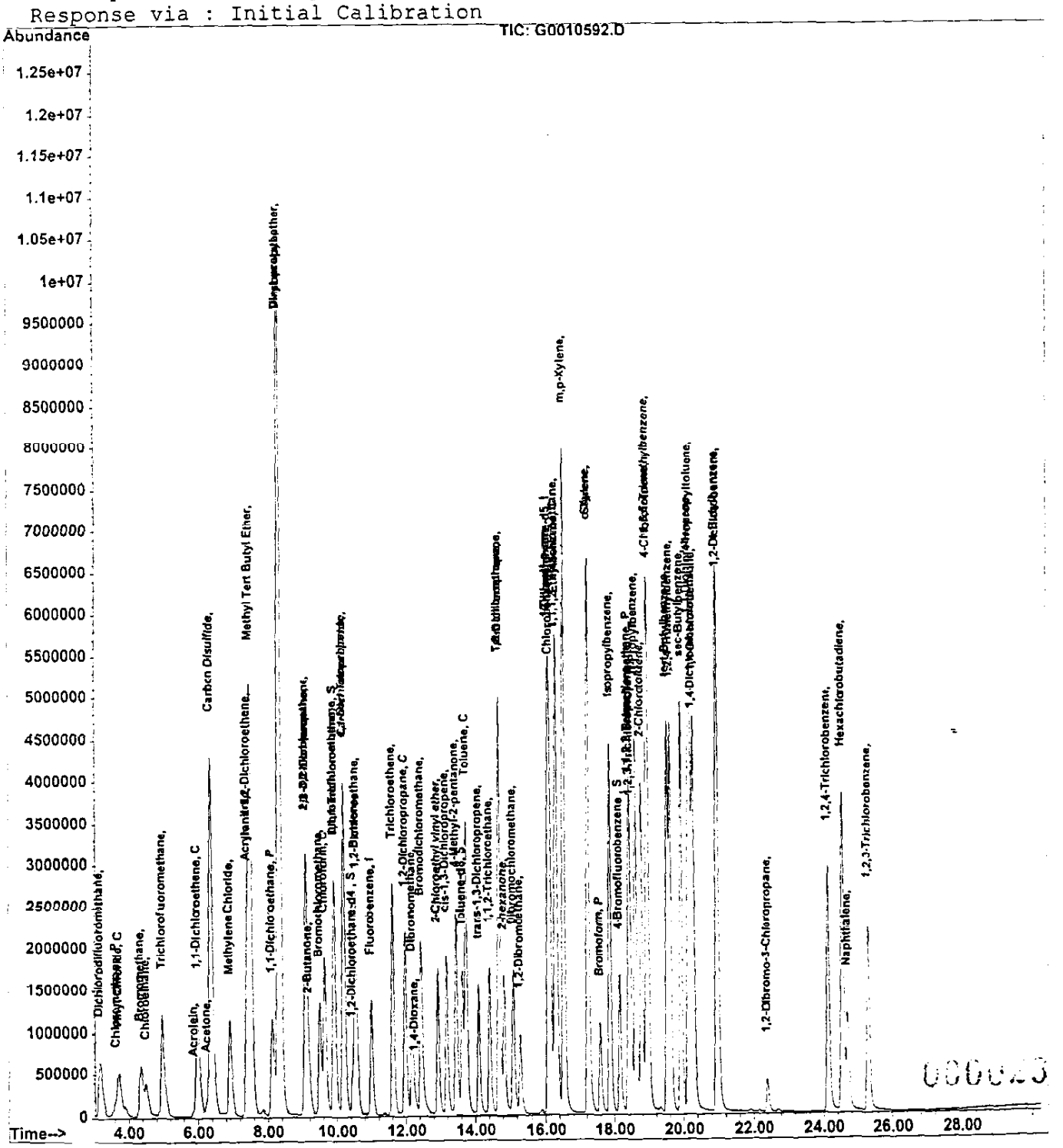
000022

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092399\G0010592.D Vial: 16
Acq On : 23 Sep 1999 3:25 pm Operator: ClaudiaP
Sample : BS,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010592.D Vial: 16
Acq On : 23 Sep 1999 3:25 pm Operator: ClaudiaP
Sample : BS,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.99	96	3192652	25.00	ug/L	0.00
39) Chlorobenzene-d5	16.09	117	2284397	25.00	ug/L	0.00
57) 1,4-Dichlorobenzene-d4	20.25	152	1419492	25.00	ug/L	0.00
System Monitoring Compounds						
25) Dibromofluoromethane	9.91	113	1598661	48.28		0.00
Spiked Amount 50.000	Range 80	116	Recovery =	96.56%		
28) 1,2-Dichloroethane-d4	10.45	65	897727	49.28		0.00
Spiked Amount 50.000	Range 74 - 120		Recovery =	98.56%		
40) Toluene-d8	13.63	98	3069315	51.40		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	102.80%		
59) 4-Bromofluorobenzene	18.15	95	1536569	50.08		0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	100.16%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.16	85	2927217	45.64	ug/L	97
3) Chloromethane	3.65	50	1285573	42.71	ug/L	95
4) Vinyl Chloride	3.72	62	1797661	53.07	ug/L	98
5) Bromomethane	4.35	94	1817812	58.15	ug/L	90
6) Chloroethane	4.50	64	851498	47.74	ug/L	90
7) Trichlorofluoromethane	4.97	101	3459294	39.32	ug/L	91
8) Acrolein	5.88	56	297779	784.32	ug/L #	69
9) 1,1-Dichloroethene	5.98	61	3107712	45.36	ug/L	92
10) Acetone	6.25	43	834053	211.65	ug/L	95
11) Carbon Disulfide	6.36	76	23449858	240.97	ug/L	97
12) Methylene Chloride	6.90	49	2289318	46.18	ug/L	96
13) trans-1,2-Dichloroethene	7.40	61	3054487	44.38	ug/L	97
14) Acrylonitrile	7.39	53	990522	534.91	ug/L	88
15) Methyl Tert Butyl Ether	7.49	73	16331233	225.88	ug/L	98
16) 1,1-Dichloroethane	8.12	63	3774851	48.99	ug/L	97
17) Vinyl acetate	8.33	43	15400639	249.55	ug/L	98
18) Di-isopropyl ether	8.32	45	32860143	244.48	ug/L #	57
19) 2,2-Dichloropropane	9.08	77	3388915	48.60	ug/L	97
20) cis-1,2-Dichloroethene	9.11	96	1967471	54.06	ug/L	93
21) 2-Butanone	9.19	43	1416080	217.65	ug/L	96
22) Bromochloromethane	9.49	128	1105165	47.70	ug/L	91
23) Chloroform	9.64	83	4085475	48.40	ug/L	97
24) 1,1,1-Trichloroethane	9.93	97	3648989	47.88	ug/L	93
26) 1,1-Dichloropropene	10.18	75	2767663	49.18	ug/L	96
27) Carbon Tetrachloride	10.20	117	3305141	47.59	ug/L	92
29) Benzene	10.53	78	4694831	50.77	ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010592.D Vial: 16
Acq On : 23 Sep 1999 3:25 pm Operator: ClaudiaP
Sample : BS,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30)	1,2-Dichloroethane	10.57	62	2104153	45.00	ug/L	98
31)	Trichloroethene	11.60	95	2599170	48.70	ug/L	97
32)	1,2-Dichloropropane	11.97	63	2257589	52.11	ug/L	99
33)	Dibromomethane	12.17	93	1435790	47.58	ug/L	97
34)	1,4-Dioxane	12.28	88	167500	1042.25	ug/L	89
35)	Bromodichloromethane	12.44	83	3503679	49.01	ug/L	99
36)	2-Chloroethyl vinyl ether	12.92	63	2066566	489.85	ug/L	94
37)	4-Methyl-2-pentanone	13.44	43	4961994	244.10	ug/L	98
38)	cis-1,3-Dichloropropene	13.17	75	2806287	49.60	ug/L	98
41)	Toluene	13.74	91	6643917	53.11	ug/L	100
42)	trans-1,3-Dichloropropene	14.09	75	2149225	51.34	ug/L	99
43)	1,1,2-Trichloroethane	14.41	83	1285027	51.84	ug/L	95
44)	Tetrachloroethene	14.69	166	3134492	50.68	ug/L	96
45)	2-hexanone	14.83	43	3270535	252.61	ug/L	96
46)	1,3-Dichloropropane	14.70	76	2303541	50.21	ug/L	96
47)	Dibromochloromethane	15.10	129	2278086	52.33	ug/L	94
48)	1,2-Dibromoethane	15.30	107	1835502	51.14	ug/L	96
49)	1-Chlorohexane	16.08	91	3025199	51.78	ug/L	95
50)	Chlorobenzene	16.13	112	4681185	51.35	ug/L	98
51)	1,1,1,2-Tetrachloroethane	16.28	131	2276360	51.13	ug/L	96
52)	Ethylbenzene	16.32	91	7842055	50.59	ug/L	99
53)	m,p-Xylene	16.53	91	13327710	105.14	ug/L	98
54)	o-Xylene	17.22	91	6529999	52.37	ug/L	98
55)	Styrene	17.25	104	4198325	54.02	ug/L	94
56)	Bromoform	17.59	173	1454401	55.34	ug/L	97
58)	Isopropylbenzene	17.88	105	8391976	51.06	ug/L	95
60)	Bromobenzene	18.43	156	2237582	50.02	ug/L	91
61)	1,1,2,2-Tetrachloroethane	18.40	83	1787507	51.92	ug/L	94
62)	1,2,3-Trichloropropane	18.47	110	439066	49.77	ug/L	95
63)	n-Propylbenzene	18.61	91	10578942	52.07	ug/L	98
64)	2-Chlorotoluene	18.78	91	6195067	50.30	ug/L	98
65)	4-Chlorotoluene	18.97	91	6897131	49.43	ug/L	98
66)	1,3,5-Trimethylbenzene	18.93	105	6998196	50.89	ug/L	100
67)	sec-Butylbenzene	19.93	105	9881204	52.60	ug/L	99
68)	1,3-Dichlorobenzene	20.14	146	4188646	50.66	ug/L	96
69)	4-Isopropyltoluene	20.19	119	7736257	51.24	ug/L	94
70)	1,4-Dichlorobenzene	20.29	146	4275489	49.75	ug/L	98
71)	tert-Butylbenzene	19.52	91	5602987	50.53	ug/L	97
72)	n-Butylbenzene	20.93	91	8290228	51.95	ug/L	97
73)	1,2-Dichlorobenzene	20.98	146	3505817	48.76	ug/L	97
74)	1,2,4-Trimethylbenzene	19.60	105	6886975	50.76	ug/L	97

(#) = qualifier out of range (m) = manual integration

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F4907-4MS	G0010590.D	1	09/23/99	CJP	n/a	n/a	VG289
F4907-4MSD	G0010591.D	1	09/23/99	CJP	n/a	n/a	VG289
F4907-4	G0010585.D	1	09/23/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4929-1

CAS No.	Compound	F4907-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		50	57.1	114	56.0	112	2	64-127/21
100-41-4	Ethylbenzene	ND		50	52.4	105	51.5	103	2	75-125/20
108-88-3	Toluene	ND		50	54.0	108	53.5	107	1	74-125/20
	m,p-Xylene	ND		100	107	107	106	106	1	79-125/16
95-47-6	o-Xylene	ND		50	52.6	105	52.8	106	0	79-125/16

CAS No.	Surrogate Recoveries	MS	MSD	F4907-4	Limits
1868 53-7	Dibromofluoromethane	97%	97%	87%	80-116%
17060-07-0	1,2-Dichloroethane-D4	111%	101%	88%	74-120%
2037-26-5	Toluene-D8	103%	103%	104%	80-120%
460-00-4	4-Bromofluorobenzene	100%	97%	102%	86-115%

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010590.D Vial: 14
Acq On : 23 Sep 1999 2:08 pm Operator: ClaudiaP
Sample : F4907-4ms,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:28 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.02	96	3057799	25.00	ug/L	0.03
39) Chlorobenzene-d5	16.12	117	2130694	25.00	ug/L	0.03
57) 1,4-Dichlorobenzene-d4	20.28	152	1344477	25.00	ug/L	0.04
System Monitoring Compounds						
25) Dibromofluoromethane	9.93	113	1532758	48.33		0.04
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.66%			
28) 1,2-Dichloroethane-d4	10.49	65	965272	55.33		0.04
Spiked Amount 50.000	Range 74 - 120		Recovery = 110.66%			
40) Toluene-d8	13.66	98	2880524	51.72		0.04
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.44%			
59) 4-Bromofluorobenzene	18.19	95	1455455	50.09		0.04
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.18%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.24	85	2867995	46.69	ug/L	98
3) Chloromethane	3.67	50	1307597	45.35	ug/L	89
4) Vinyl Chloride	3.77	62	1805762	55.66	ug/L	95
5) Bromomethane	4.41	94	1599557	53.43	ug/L	95
6) Chloroethane	4.54	64	851739	49.86	ug/L	91
7) Trichlorofluoromethane	4.99	101	3269909	38.80	ug/L	93
8) Acrolein	5.91	56	287998	792.02	ug/L	79
9) 1,1-Dichloroethene	6.01	61	3101024	47.26	ug/L	97
10) Acetone	6.28	43	808643	214.25	ug/L	91
11) Carbon Disulfide	6.39	76	23132514	248.19	ug/L	97
12) Methylene Chloride	6.94	49	2262777	47.65	ug/L	98
13) trans-1,2-Dichloroethene	7.43	61	2988374	45.34	ug/L	97
14) Acrylonitrile	7.43	53	959594	541.06	ug/L	88
15) Methyl Tert Butyl Ether	7.52	73	15760414	227.60	ug/L	97
16) 1,1-Dichloroethane	8.16	63	3646310	49.41	ug/L	99
17) Vinyl acetate	8.35	43	14483999	245.05	ug/L	98
18) Di-isopropyl ether	8.36	45	31138539	241.88	ug/L #	57
19) 2,2-Dichloropropane	9.12	77	3415658	51.15	ug/L	99
20) cis-1,2-Dichloroethene	9.14	96	1909259	54.77	ug/L	94
21) 2-Butanone	9.21	43	1374975	220.65	ug/L	100
22) Bromochloromethane	9.53	128	1046694	47.17	ug/L	97
23) Chloroform	9.67	83	4059051	50.21	ug/L	99
24) 1,1,1-Trichloroethane	9.95	97	3590986	49.19	ug/L	95
26) 1,1-Dichloropropene	10.22	75	2660520	49.37	ug/L	96
27) Carbon Tetrachloride	10.23	117	3101042	46.62	ug/L	99
29) Benzene	10.55	78	5056841	57.10	ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010590.D Vial: 14
Acq On : 23 Sep 1999 2:08 pm Operator: ClaudiaP
Sample : F4907-4ms,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:28 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,2-Dichloroethane	10.59	62	2605251	58.17 ug/L	99
31) Trichloroethene	11.64	95	2483299	48.58 ug/L	99
32) 1,2-Dichloropropane	12.00	63	2105323	50.74 ug/L	97
33) Dibromomethane	12.22	93	1315158	45.50 ug/L	96
34) 1,4-Dioxane	12.31	88	148286	963.38 ug/L	89
35) Bromodichloromethane	12.48	83	3271156	47.78 ug/L	98
36) 2-Chloroethyl vinyl ether	12.99	63	16365	4.89 ug/L #	70
37) 4-Methyl-2-pentanone	13.47	43	4565474	234.50 ug/L	98
38) cis-1,3-Dichloropropene	13.21	75	2586394	47.73 ug/L	97
41) Toluene	13.77	91	6297955	53.97 ug/L	97
42) trans-1,3-Dichloropropene	14.13	75	2042384	52.30 ug/L	98
43) 1,1,2-Trichloroethane	14.44	83	1171335	50.66 ug/L	98
44) Tetrachloroethene	14.71	166	3454587	59.89 ug/L	97
45) 2-hexanone	14.87	43	2985562	247.23 ug/L	94
46) 1,3-Dichloropropane	14.72	76	2165438	50.60 ug/L	99
47) Dibromochloromethane	15.13	129	2147174	52.88 ug/L	97
48) 1,2-Dibromoethane	15.33	107	1705755	50.95 ug/L	99
49) 1-Chlorohexane	16.11	91	2994633	54.96 ug/L	94
50) Chlorobenzene	16.17	112	4380800	51.52 ug/L	98
51) 1,1,1,2-Tetrachloroethane	16.32	131	2159445	52.00 ug/L	98
52) Ethylbenzene	16.36	91	7569907	52.36 ug/L	96
53) m,p-Xylene	16.56	91	12696384	107.39 ug/L	98
54) o-Xylene	17.26	91	6114052	52.57 ug/L	98
55) Styrene	17.28	104	3880334	53.53 ug/L	84
56) Bromoform	17.63	173	1327226	54.14 ug/L	95
58) Isopropylbenzene	17.91	105	8056489	51.75 ug/L	97
60) Bromobenzene	18.47	156	2124503	50.14 ug/L	89
61) 1,1,2,2-Tetrachloroethane	18.43	83	1623743	49.79 ug/L	96
62) 1,2,3-Trichloropropane	18.51	110	409640	49.02 ug/L	92
63) n-Propylbenzene	18.65	91	10142124	52.70 ug/L	98
64) 2-Chlorotoluene	18.81	91	5855411	50.19 ug/L	97
65) 4-Chlorotoluene	19.00	91	6582752	49.81 ug/L	99
66) 1,3,5-Trimethylbenzene	18.96	105	6623077	50.85 ug/L	99
67) sec-Butylbenzene	19.95	105	9587901	53.88 ug/L	100
68) 1,3-Dichlorobenzene	20.16	146	3940852	50.32 ug/L	97
69) 4-Isopropyltoluene	20.20	119	7492013	52.39 ug/L	96
70) 1,4-Dichlorobenzene	20.33	146	4046680	49.72 ug/L	97
71) tert-Butylbenzene	19.55	91	5329563	50.75 ug/L	96
72) n-Butylbenzene	20.96	91	8122196	53.73 ug/L	96
73) 1,2-Dichlorobenzene	21.00	146	3275728	48.10 ug/L	97
74) 1,2,4-Trimethylbenzene	19.64	105	6532089	50.84 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010590.D Vial: 14
Acq On : 23 Sep 1999 2:08 pm Operator: ClaudiaP
Sample : F4907-4ms,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:28 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

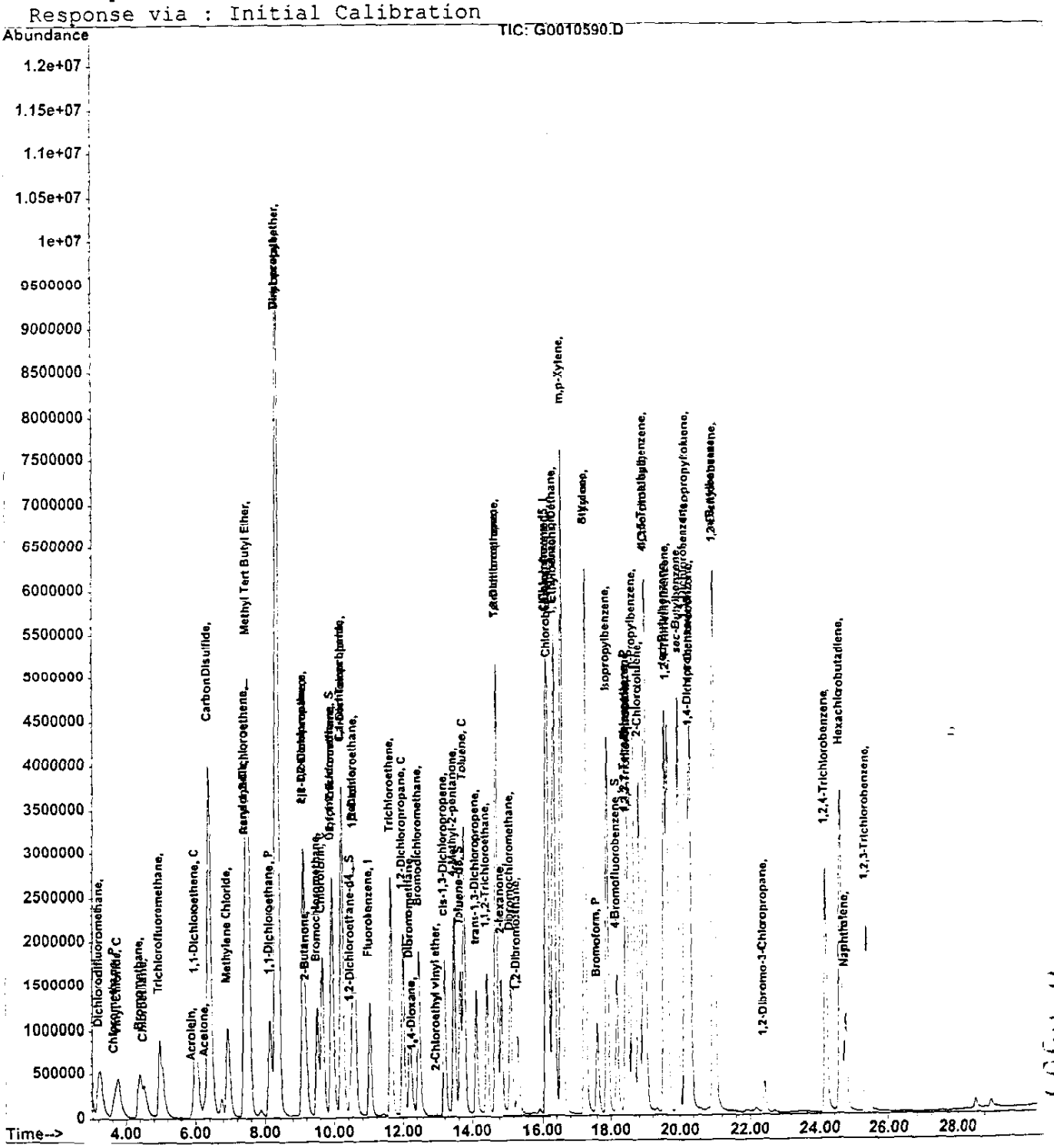
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	1,2-Dibromo-3-Chloropropan	22.43	75	269132	49.06 ug/L	91
76)	1,2,4-Trichlorobenzene	24.18	180	2774367	53.20 ug/L	95
77)	Hexachlorobutadiene	24.59	225	2037900	53.42 ug/L	89
78)	Naphthalene	24.74	128	2915291	51.57 ug/L	100
79)	1,2,3-Trichlorobenzene	25.35	180	2344371	52.30 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092399\G0010590.D Vial: 14
Acq On : 23 Sep 1999 2:08 pm Operator: ClaudiaP
Sample : F4907-4ms,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:28 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010591.D Vial: 15
Acq On : 23 Sep 1999 2:46 pm Operator: ClaudiaP
Sample : F4907-4msd,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.00	96	3130333	25.00	ug/L	0.01
39) Chlorobenzene-d5	16.11	117	2226828	25.00	ug/L	0.01
57) 1,4-Dichlorobenzene-d4	20.26	152	1392816	25.00	ug/L	0.02
System Monitoring Compounds						
25) Dibromofluoromethane	9.92	113	1571685	48.41		0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.82%			
28) 1,2-Dichloroethane-d4	10.46	65	906060	50.73		0.01
Spiked Amount 50.000	Range 74 - 120		Recovery = 101.46%			
40) Toluene-d8	13.64	98	2986148	51.30		0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.60%			
59) 4-Bromofluorobenzene	18.17	95	1462181	48.57		0.02
Spiked Amount 50.000	Range 86 - 115		Recovery = 97.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.18	85	2912002	46.31	ug/L	97
3) Chloromethane	3.65	50	1293500	43.82	ug/L	92
4) Vinyl Chloride	3.75	62	1815680	54.67	ug/L	96
5) Bromomethane	4.35	94	1786287	58.28	ug/L	94
6) Chloroethane	4.51	64	853789	48.82	ug/L	90
7) Trichlorofluoromethane	4.98	101	3475834	40.29	ug/L	92
8) Acrolein	5.90	56	305093	819.59	ug/L	77
9) 1,1-Dichloroethene	5.98	61	3095789	46.08	ug/L	96
10) Acetone	6.26	43	842079	217.94	ug/L	91
11) Carbon Disulfide	6.37	76	23211571	243.27	ug/L	98
12) Methylene Chloride	6.91	49	2247722	46.24	ug/L	96
13) trans-1,2-Dichloroethene	7.40	61	2997914	44.43	ug/L	98
14) Acrylonitrile	7.40	53	985256	542.66	ug/L	91
15) Methyl Tert Butyl Ether	7.49	73	16091012	226.99	ug/L	96
16) 1,1-Dichloroethane	8.12	63	3675775	48.65	ug/L	98
17) Vinyl acetate	8.34	43	14795910	244.52	ug/L	98
18) Di-isopropyl ether	8.34	45	31379573	238.11	ug/L #	59
19) 2,2-Dichloropropane	9.10	77	3401602	49.76	ug/L	96
20) cis-1,2-Dichloroethene	9.11	96	1929875	54.08	ug/L	96
21) 2-Butanone	9.20	43	1472939	230.89	ug/L	99
22) Bromochloromethane	9.51	128	1086079	47.81	ug/L	95
23) Chloroform	9.66	83	4107871	49.64	ug/L	97
24) 1,1,1-Trichloroethane	9.94	97	3604872	48.24	ug/L	97
26) 1,1-Dichloropropene	10.20	75	2736646	49.60	ug/L	97
27) Carbon Tetrachloride	10.20	117	3200806	47.00	ug/L	100
29) Benzene	10.54	78	5075791	55.98	ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010591.D Vial: 15
Acq On : 23 Sep 1999 2:46 pm Operator: ClaudiaP
Sample : F4907-4msd,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,2-Dichloroethane	10.58	62	2652333	57.85 ug/L	97
31) Trichloroethene	11.62	95	2583212	49.36 ug/L	97
32) 1,2-Dichloropropane	11.99	63	2166239	51.00 ug/L	97
33) Dibromomethane	12.19	93	1400212	47.32 ug/L	97
34) 1,4-Dioxane	12.29	88	167625	1063.79 ug/L	90
35) Bromodichloromethane	12.45	83	3412084	48.68 ug/L	98
36) 2-Chloroethyl vinyl ether	12.97	63	13330	3.89 ug/L #	40
37) 4-Methyl-2-pentanone	13.45	43	4972272	249.48 ug/L	98
38) cis-1,3-Dichloropropene	13.18	75	2689498	48.48 ug/L	99
41) Toluene	13.75	91	6528389	53.53 ug/L	99
42) trans-1,3-Dichloropropene	14.10	75	2100001	51.46 ug/L	95
43) 1,1,2-Trichloroethane	14.42	83	1254212	51.90 ug/L	97
44) Tetrachloroethene	14.69	166	3494956	57.97 ug/L	96
45) 2-hexanone	14.84	43	3253213	257.77 ug/L	96
46) 1,3-Dichloropropane	14.70	76	2231230	49.89 ug/L	97
47) Dibromochloromethane	15.10	129	2212449	52.14 ug/L	97
48) 1,2-Dibromoethane	15.30	107	1815912	51.90 ug/L	98
49) 1-Chlorohexane	16.10	91	3025547	53.13 ug/L	93
50) Chlorobenzene	16.14	112	4535151	51.03 ug/L	99
51) 1,1,1,2-Tetrachloroethane	16.28	131	2206725	50.85 ug/L	98
52) Ethylbenzene	16.32	91	7776220	51.47 ug/L	97
53) m,p-Xylene	16.54	91	13081961	105.87 ug/L	96
54) o-Xylene	17.24	91	6416116	52.79 ug/L	99
55) Styrene	17.26	104	4083229	53.90 ug/L	90
56) Bromoform	17.60	173	1384860	54.05 ug/L	97
58) Isopropylbenzene	17.89	105	8238945	51.09 ug/L	96
60) Bromobenzene	18.45	156	2148663	48.95 ug/L	83
61) 1,1,2,2-Tetrachloroethane	18.40	83	1742632	51.58 ug/L	94
62) 1,2,3-Trichloropropane	18.49	110	437954	50.59 ug/L	92
63) n-Propylbenzene	18.63	91	10426771	52.30 ug/L	99
64) 2-Chlorotoluene	18.79	91	6168541	51.04 ug/L	94
65) 4-Chlorotoluene	18.98	91	6711145	49.02 ug/L	99
66) 1,3,5-Trimethylbenzene	18.94	105	6834389	50.65 ug/L	98
67) sec-Butylbenzene	19.94	105	9817139	53.26 ug/L	99
68) 1,3-Dichlorobenzene	20.16	146	4086061	50.37 ug/L	99
69) 4-Isopropyltoluene	20.20	119	7788022	52.57 ug/L	100
70) 1,4-Dichlorobenzene	20.30	146	4189352	49.68 ug/L	97
71) tert-Butylbenzene	19.53	91	5558355	51.09 ug/L	97
72) n-Butylbenzene	20.94	91	8242520	52.64 ug/L	97
73) 1,2-Dichlorobenzene	20.99	146	3380204	47.91 ug/L	95
74) 1,2,4-Trimethylbenzene	19.62	105	6595993	49.55 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010591.D Vial: 15
Acq On : 23 Sep 1999 2:46 pm Operator: ClaudiaP
Sample : F4907-4msd,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	1,2-Dibromo-3-Chloropropan	22.41	75	301158	52.99 ug/L	85
76)	1,2,4-Trichlorobenzene	24.15	180	2828808	52.36 ug/L	96
77)	Hexachlorobutadiene	24.55	225	2128339	53.85 ug/L	92
78)	Naphthalene	24.71	128	3009030	51.38 ug/L	99
79)	1,2,3-Trichlorobenzene	25.32	180	2363629	50.90 ug/L	98

(#) = qualifier out of range (m) = manual integration

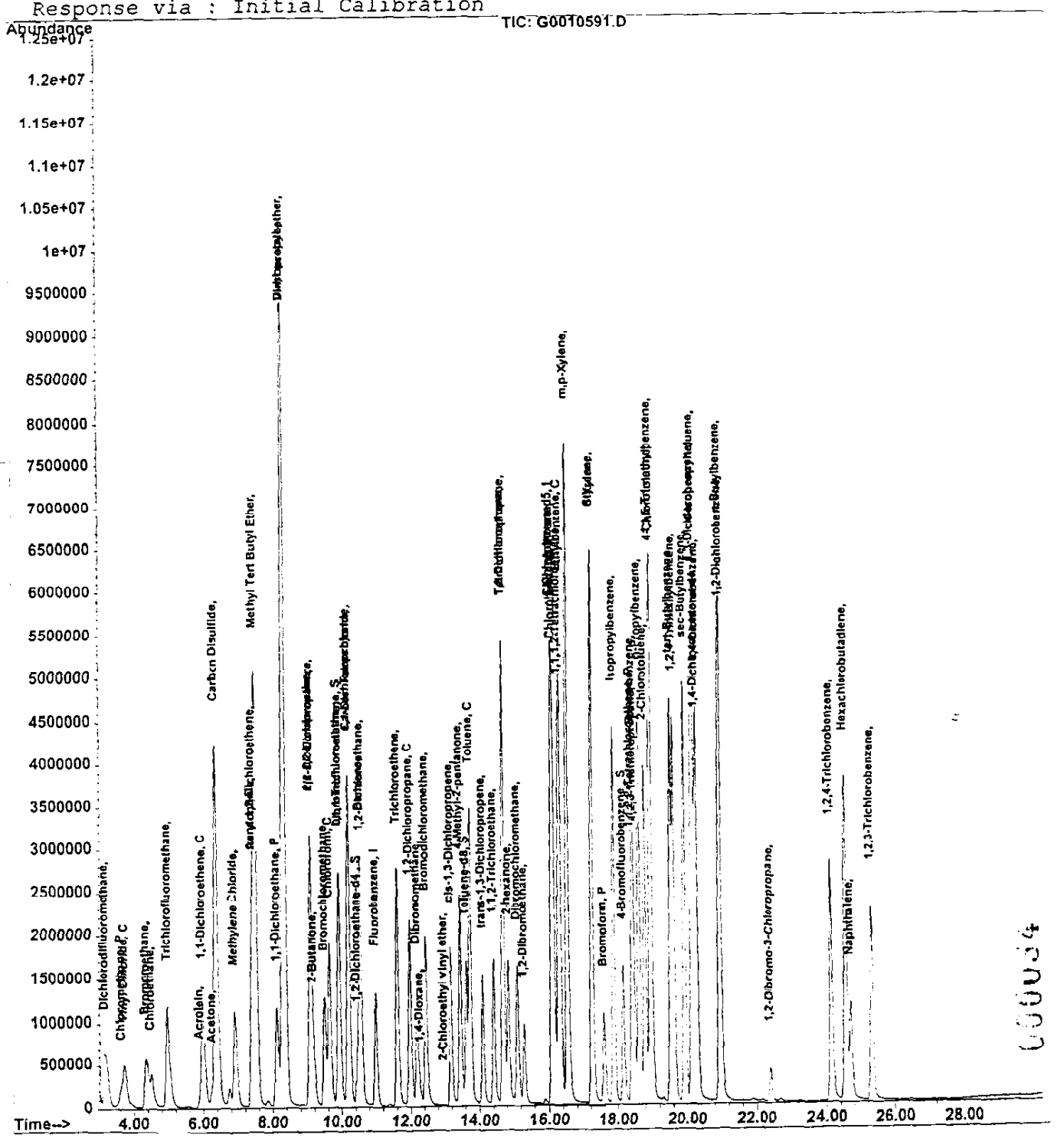
Quantitation Report

Data File : C:\HPCHEM\1\DATA\092399\G0010591.D
Acq On : 23 Sep 1999 2:46 pm
Sample : F4907-4msd,10ml
Misc : ms380,vg289,,,,,
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999

Vial: 15
Operator: ClaudiaP
Inst : MSVOA1
Multiplr: 1.00

Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



METHOD BLANK SUMMARY

Method Blank Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG289-MB	G0010595.D	1	09/24/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4929-1

CAS No.	Compound	Result	RDL	Units	Q
71-43-2	Benzene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	80-116%
17060-07-0	1,2-Dichloroethane-D4	92%	74-120%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	101%	86-115%

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092499\G0010595.D Vial: 3
Acq On : 24 Sep 1999 9:42 am Operator: ClaudiaP
Sample : MB Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 10:50 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.98	96	3273132	25.00 ug/L	0.00
39) Chlorobenzene-d5	16.08	117	2365917	25.00 ug/L	-0.02
57) 1,4-Dichlorobenzene-d4	20.25	152	1430584	25.00 ug/L	0.00

System Monitoring Compounds

25) Dibromofluoromethane	9.90	113	1592718	46.91	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 93.82%		
28) 1,2-Dichloroethane-d4	10.44	65	854837	45.78	0.00
Spiked Amount 50.000	Range 74 - 120		Recovery = 91.56%		
40) Toluene-d8	13.61	98	3106516	50.23	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.46%		
59) 4-Bromofluorobenzene	18.15	95	1568844	50.74	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 101.48%		

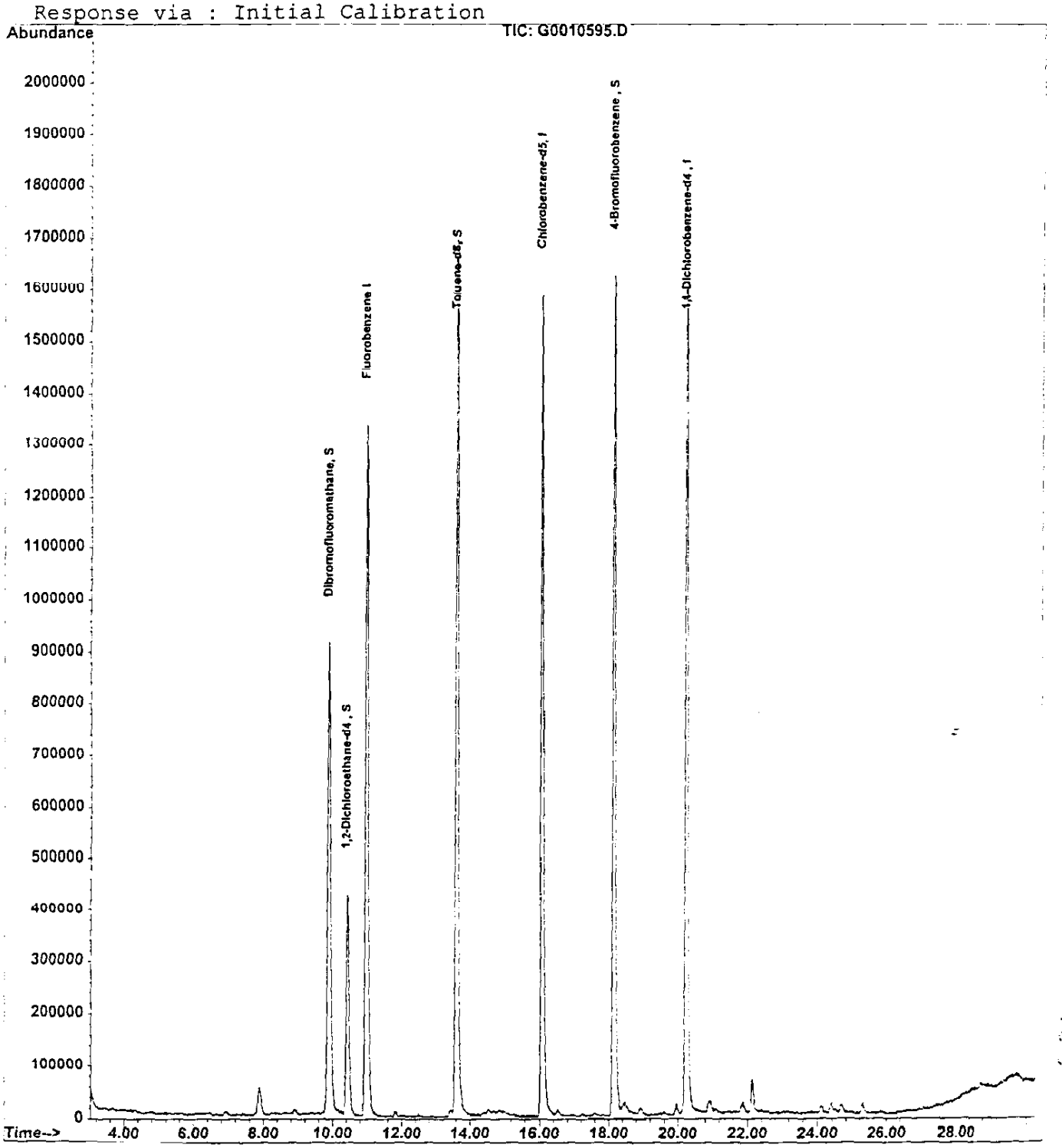
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092499\G0010595.D Vial: 3
Acq On : 24 Sep 1999 9:42 am Operator: ClaudiaP
Sample : MB Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 10:50 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



TUNE SUMMARY

VOC.05

Instrument Performance Check (BFB)

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample:	VG289-BFB	**Injection Date:**	09/24/99
Lab File ID:	G0010593.D	**Injection Time:**	08:48
Instrument ID:	GCMSG		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	32893	23.5		Pass
75	30.0 - 60.0% of mass 95	76408	54.5		Pass
95	Base peak, 100% relative abundance	140224	100.0		Pass
96	5.0 - 9.0% of mass 95	10747	7.7		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	115616	82.5		Pass
175	5.0 - 9.0% of mass 174	8531	6.1	(7.4) [a]	Pass
176	95.0 - 101.0% of mass 174	113400	80.9	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	8268	5.9	(7.3) [b]	Pass

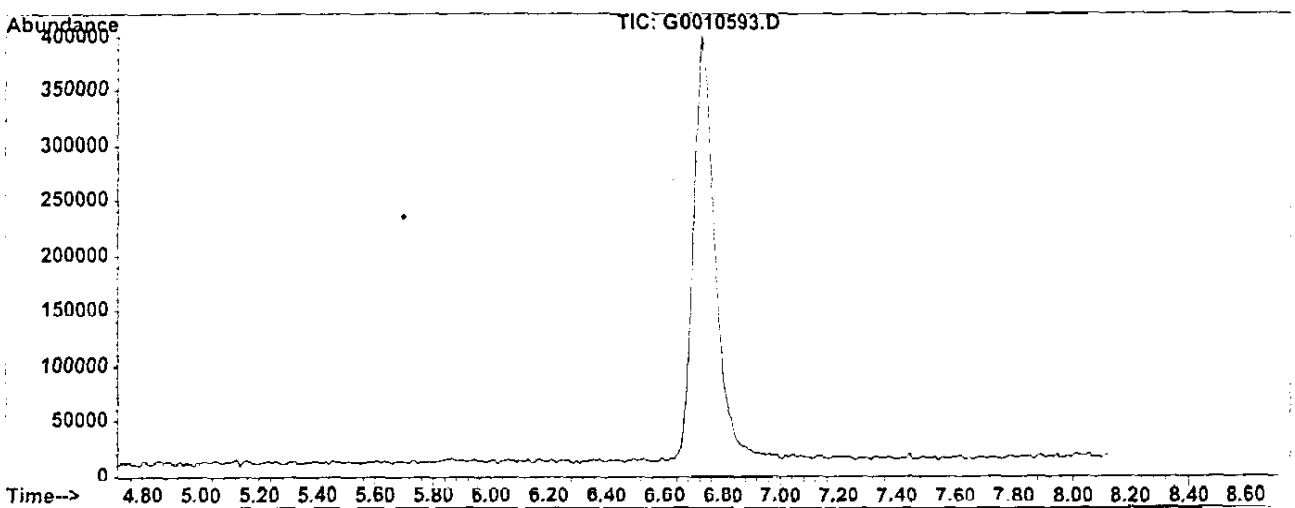
(a) Value is % of mass 174
(b) Value is % of mass 176

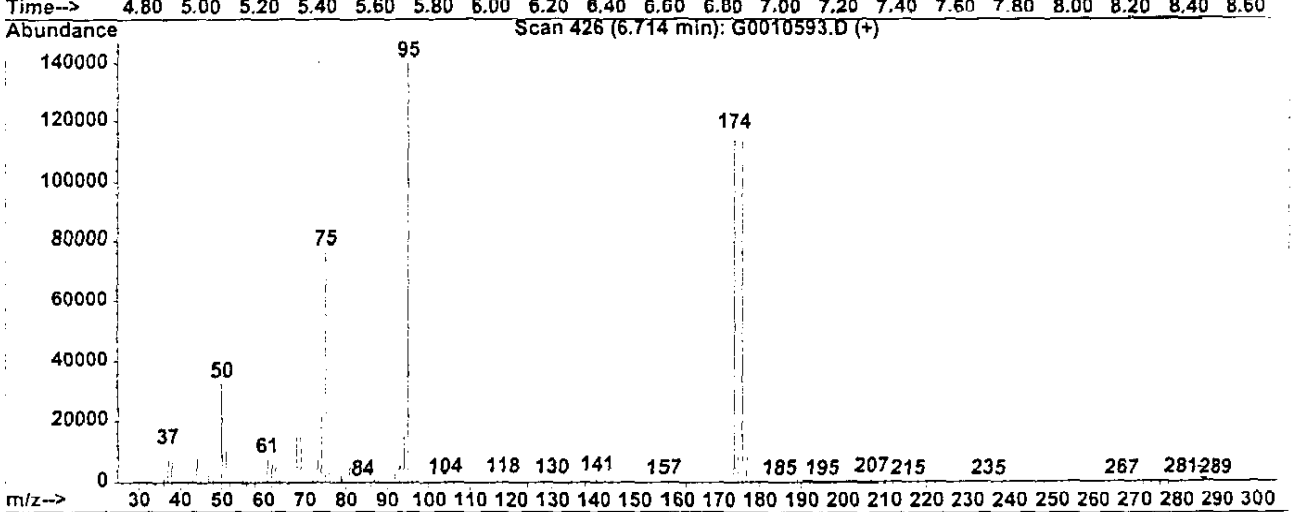
This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG289-CC285	G0010594.D	09/24/99	09:03	00:15	Continuing cal 20
VG289-MB	G0010595.D	09/24/99	09:42	00:54	Method Blank
F4929-1	G0010596.D	09/24/99	11:12	02:24	GP.10.01

Methods: SW-846 8260B

Data File : C:\HPCHEM\1\DATA\092399\G0010593.D Vial: 100
Acq On : 24 Sep 1999 8:48 am Operator: ClaudiaP
Sample : BFB tune Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)





Spectrum Information: Scan 426

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	32893	PASS
75	95	30	60	54.5	76408	PASS
95	95	100	100	100.0	140224	PASS
96	95	5	9	7.7	10747	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.5	115616	PASS
175	174	5	9	7.4	8531	PASS
176	174	95	101	98.1	113400	PASS
177	176	5	9	7.3	8268	PASS

INITIAL CALIBRATION SUMMARY

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:11:03 1999
Response via : Initial Calibration

Calibration Files
1 =G0010432.D 2 =G0010433.D 3 =G0010434.D
4 =G0010435.D 5 =G0010436.D 6 =G0010437.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.485	0.535	0.499	0.506	0.502	0.486	0.502	3.65
3)	P	Chloromethane	0.242	0.246	0.242	0.229	0.230	0.225	0.236	3.67
4)	C	Vinyl Chloride	0.237	0.273	0.261	0.274	0.273	0.273	0.265	5.60
5)		Bromomethane	0.229	0.248	0.241	0.243	0.255	0.254	0.245	3.99
6)		Chloroethane	0.165		0.140	0.132	0.132	0.129	0.140	10.44
7)		Trichlorofluorometh	0.612	0.750	0.703	0.698	0.701	0.669	0.689	6.64
8)		Acrolein		0.003	0.003	0.003	0.003	0.003	0.003	5.94
9)	C	1,1-Dichloroethene	0.506	0.577	0.534	0.530	0.539	0.532	0.537	4.30
10)		Acetone		0.034	0.032	0.031	0.029	0.028	0.031	7.92
11)		Carbon Disulfide	0.669	0.802	0.764	0.765	0.789	0.784	0.762	6.30
12)		Methylene Chloride		0.412	0.395	0.381	0.379	0.374	0.388	3.93
13)		trans-1,2-Dichloroe	0.512	0.560	0.531	0.542	0.547	0.541	0.539	3.01
14)		Acrylonitrile	0.014	0.015	0.015	0.014	0.015	0.014	0.015	2.69
[illegible])		Methyl Tert Butyl E	0.558	0.593	0.564	0.553	0.567	0.566	0.566	2.12
[illegible])	P	1,1-Dichloroethane	0.579	0.640	0.594	0.597	0.605	0.605	0.603	3.39
17)		Vinyl acetate	0.450	0.491	0.479		0.499	0.497	0.483	4.21
18)		Di-isopropyl ether	1.077	1.099	1.043	1.017	1.044	1.035	1.053	2.84
19)		2,2-Dichloropropane	0.517	0.583	0.537	0.546	0.551	0.542	0.546	3.96
20)		cis-1,2-Dichloroeth	0.300	0.291	0.278	0.282	0.281	0.278	0.285	3.00
21)		2-Butanone	0.055	0.054	0.048	0.050	0.049	0.049	0.051	5.91
22)		Bromochloromethane	0.164	0.192	0.179	0.185	0.184	0.185	0.181	5.16
23)	C	Chloroform	0.614	0.692	0.665	0.657	0.675	0.663	0.661	3.95
24)		1,1,1-Trichloroetha	0.535	0.648	0.594	0.599	0.609	0.595	0.597	6.11
25)	S	Dibromofluoromethan	0.252	0.263	0.258	0.255	0.262	0.265	0.259	1.90
26)		1,1-Dichloropropene	0.394	0.473	0.444	0.444	0.446	0.442	0.441	5.85
27)		Carbon Tetrachlorid		0.539	0.526	0.542	0.560	0.553	0.544	2.43
28)	S	1,2-Dichloroethane-	0.143	0.145	0.138	0.147	0.137	0.146	0.143	3.03
29)		Benzene	0.751	0.767	0.736	0.650	0.703	0.738	0.724	5.80
30)		1,2-Dichloroethane	0.380	0.378	0.374	0.341	0.359	0.364	0.366	3.98
31)		Trichloroethene	0.395	0.430	0.420	0.431	0.414	0.419	0.418	3.08
32)	C	1,2-Dichloropropane	0.325	0.353	0.334	0.338	0.342	0.344	0.339	2.79
33)		Dibromomethane	0.221	0.238	0.234	0.241	0.243	0.241	0.236	3.36
34)		1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	5.33
35)		Bromodichloromethan		0.534	0.538	0.558	0.585	0.584	0.560	4.36
36)		2-Chloroethyl vinyl	0.023	0.024	0.026	0.026	0.032	0.030	0.027	12.78
37)		4-Methyl-2-pentanon	0.132	0.163	0.167	0.163	0.166	0.165	0.159	8.45
38)		cis-1,3-Dichloropro		0.430	0.422	0.443	0.462	0.459	0.443	3.92
39)	I	Chlorobenzene-d5	----------ISTD----------							
[illegible])	S	Toluene-d8	0.631	0.661	0.651	0.652	0.664	0.661	0.653	1.69
41)	C	Toluene	1.263	1.497	1.359	1.360	1.392	1.343	1.369	5.56
42)		trans-1,3-Dichlorop		0.429	0.429	0.452	0.490	0.490	0.458	6.70

(#) = Out of Range

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:11:03 1999
Response via : Initial Calibration

Calibration Files
1 =G0010432.D 2 =G0010433.D 3 =G0010434.D
4 =G0010435.D 5 =G0010436.D 6 =G0010437.D

		Compound	1	2	3	4	5	6	Avg	%RSD
43)		1,1,2-Trichloroetha	0.230	0.297	0.271	0.275	0.282	0.274	0.271	8.28
44)		Tetrachloroethene	0.636	0.723	0.675	0.681	0.686	0.661	0.677	4.25
45)		2-hexanone	0.128	0.148	0.143	0.145	0.144	0.142	0.142	4.80
46)		1,3-Dichloropropane	0.470	0.536	0.502	0.500	0.512	0.493	0.502	4.34
47)		Dibromochloromethan		0.434	0.437	0.488	0.513	0.510	0.476	8.06
48)		1,2-Dibromoethane		0.383	0.386	0.391	0.405	0.399	0.393	2.29
49)		1-Chlorohexane	0.607	0.678	0.638	0.631	0.660	0.623	0.639	4.03
50)	P	Chlorobenzene	0.968	1.064	0.990	0.989	0.990	0.985	0.998	3.39
51)		1,1,1,2-Tetrachloro		0.487	0.459	0.481	0.503	0.506	0.487	3.90
52)	C	Ethylbenzene	1.631	1.843	1.670	1.672	1.673	1.689	1.696	4.38
53)		m,p-Xylene	1.331	1.439	1.388	1.369	1.408	1.388	1.387	2.62
54)		o-Xylene	1.255	1.456	1.372	1.355	1.394	1.355	1.365	4.81
55)		Styrene	0.693	0.884	0.856	0.888	0.885	0.896	0.851	9.21
56)	P	Bromoform		0.252	0.262	0.289	0.316	0.319	0.288	10.57
57)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
58)		Isopropylbenzene	2.832	3.032	2.908	2.822	2.875	2.899	2.895	2.61
59)	S	4-Bromofluorobenzen	0.548	0.546	0.534	0.527	0.542	0.545	0.540	1.57
60)		Bromobenzene	0.781	0.809	0.788	0.775	0.782	0.793	0.788	1.54
61)	P	1,1,2,2-Tetrachloro	0.557	0.632	0.615	0.579	0.628	0.626	0.606	5.08
62)		1,2,3-Trichloroprop	0.134	0.161	0.162	0.159	0.158	0.158	0.155	6.80
63)		n-Propylbenzene	3.622	3.748	3.543	3.508	3.521	3.528	3.578	2.58
64)		2-Chlorotoluene	2.234	2.271	2.186	2.090	2.131	2.103	2.169	3.39
65)		4-Chlorotoluene	2.526	2.562	2.436	2.391	2.432	2.398	2.458	2.85
66)		1,3,5-Trimethylbenz	2.406	2.547	2.430	2.373	2.389	2.386	2.422	2.66
67)		sec-Butylbenzene	3.312	3.468	3.306	3.148	3.267	3.352	3.309	3.17
68)		1,3-Dichlorobenzene	1.456	1.510	1.449	1.420	1.431	1.471	1.456	2.19
69)		4-Isopropyltoluene	2.636	2.827	2.691	2.588	2.624	2.588	2.659	3.41
70)		1,4-Dichlorobenzene	1.622	1.575	1.506	1.422	1.473	1.483	1.514	4.81
71)		tert-Butylbenzene	1.882	2.072	1.981	1.902	1.919	1.961	1.953	3.53
72)		n-Butylbenzene	2.751	2.989	2.775	2.690	2.809	2.850	2.811	3.65
73)		1,2-Dichlorobenzene	1.259	1.347	1.304	1.209	1.243	1.236	1.266	3.99
74)		1,2,4-Trimethylbenz	2.436	2.527	2.371	2.327	2.348	2.327	2.389	3.30
75)		1,2-Dibromo-3-Chlor		0.097	0.095	0.099	0.110	0.110	0.102	6.93
76)		1,2,4-Trichlorobenz	0.849	0.972	0.961	0.996	1.008	1.033	0.970	6.65
77)		Hexachlorobutadiene	0.705	0.765	0.687	0.684	0.728	0.686	0.709	4.52
78)		Naphthalene		0.955	1.018	1.066	1.108	1.108	1.051	6.22
79)		1,2,3-Trichlorobenz	0.709	0.834	0.843	0.850	0.867	0.897	0.834	7.78

000041

(#) = Out of Range

GC/MS QA-QC Check Report

ine File : C:\HPCHEM\1\DATA\091099\G0010431.D
ine Time : 10 Sep 1999 1:17 pm

aily Calibration File : C:\HPCHEM\1\DATA\091099\G0010432.D

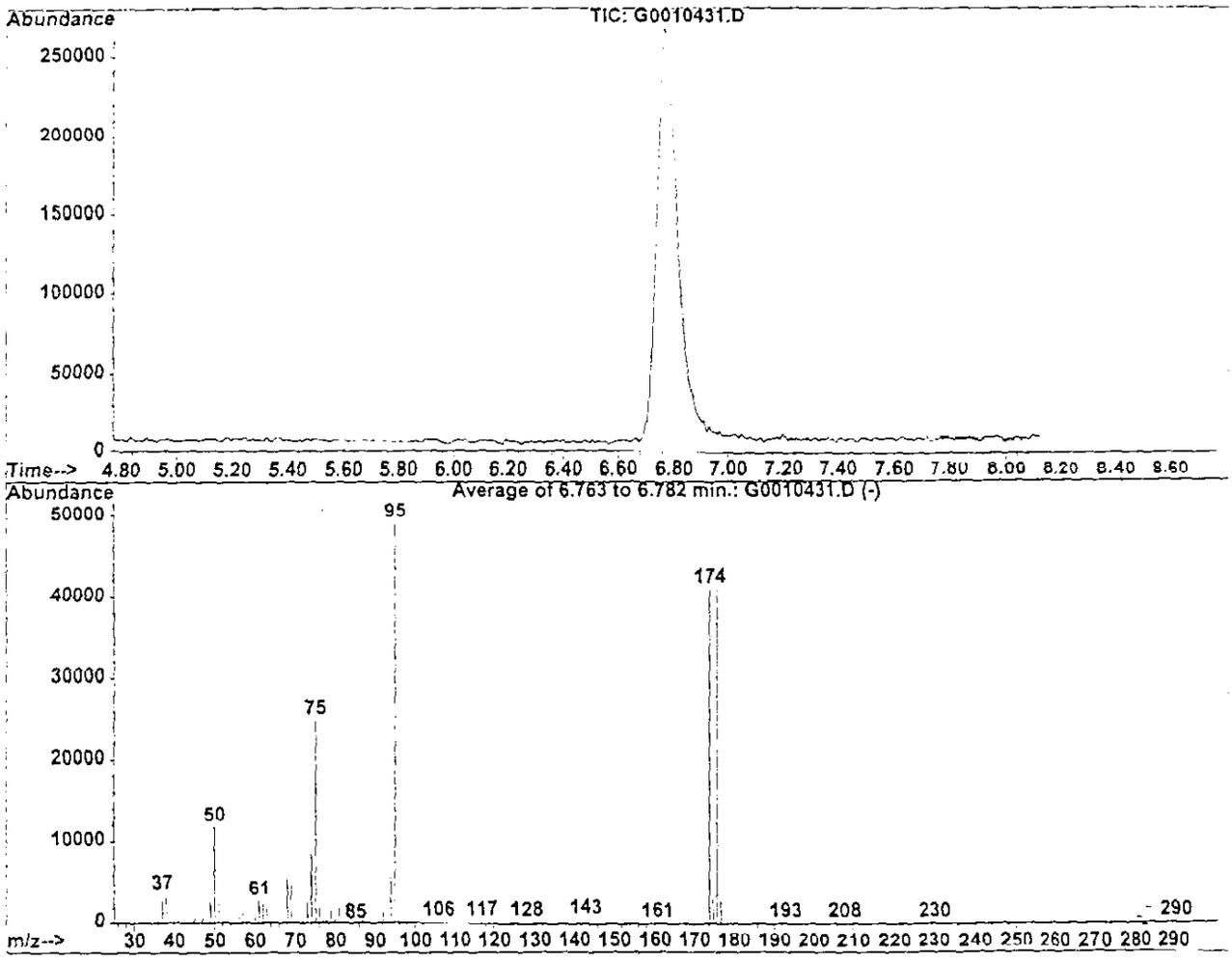
						2380320	1821450	1072160
ile	Sample	Surrogate Recovery %				Internal Standard Responses		
0010432.D	IC285-1,	96	99	96	100	2380322	1821450	1072163
0010433.D	IC285-5,	101	100	101	100	2293539	1705799	1065995
0010434.D	IC285-10	99	95	100	97	2257956	1695418	1050102
0010435.D	ICC285-2	98	101	100	96	2300028	1727821	1086085
0010436.D	IC285-35	100	94	101	99	2290982	1707464	1080892
0010437.D	IC285-50	101	100	101	100	2272240	1711492	1070056
0010438.D	ICV-20,1	100	103	100	99	2318724	1717719	1079762
0010439.D	MD,10ml	99	102	98	104	2334293	1761886	1027712

t - fails 12hr time check * - fails criteria

Created: Mon Sep 13 10:48:13 1999 MSVOA1

Methods: SW-846 8260B

Data File : C:\HPCHEM\1\DATA\091099\G0010431.D Vial: 100
Acq On : 10 Sep 1999 1:17 pm Operator: ClaudiaP
Sample : BFB tune Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)



Spectrum Information: Average of 6.763 to 6.782 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	11789	PASS
75	95	30	60	50.8	24976	PASS
95	95	100	100	100.0	49165	PASS
96	95	5	9	6.7	3303	PASS
173	174	0.00	2	0.4	166	PASS
174	95	50	100	83.3	40933	PASS
175	174	5	9	7.2	2953	PASS
176	174	95	101	99.8	40864	PASS
177	176	5	9	6.6	2703	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010432.D Vial: 1
Acq On : 10 Sep 1999 1:32 pm Operator: ClaudiaP
ample : IC285-1,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:31 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.03	96	2380322	25.00 ug/L	0.04
39) Chlorobenzene-d5	16.12	117	1821450	25.00 ug/L	0.04
57) 1,4-Dichlorobenzene-d4	20.27	152	1072163	25.00 ug/L	0.02
System Monitoring Compounds					
25) Dibromofluoromethane	9.93	113	1200748	48.22	0.04
Spiked Amount 50.000	Range 80 - 116		Recovery =	96.44%	
28) 1,2-Dichloroethane-d4	10.47	65	682711	49.38	0.02
Spiked Amount 50.000	Range 74 - 120		Recovery =	98.76%	
40) Toluene-d8	13.65	98	2300085	48.24	0.03
Spiked Amount 50.000	Range 80 - 120		Recovery =	96.48%	
59) 4-Bromofluorobenzene	18.18	95	1176159	50.09	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	100.18%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.20	85	46212	1.57 ug/L	91
3) Chloromethane	3.64	50	22996	1.26 ug/L #	47
4) Vinyl Chloride	3.73	62	22530	1.03 ug/L	87
5) Bromomethane	4.38	94	21757	1.08 ug/L #	68
6) Chloroethane	4.59	64	15693m	1.21 ug/L	
7) Trichlorofluoromethane	5.09	101	58284	0.86 ug/L	96
9) 1,1-Dichloroethene	6.05	61	48204	0.92 ug/L	95
10) Acetone	6.18	43	19581	6.41 ug/L	80
11) Carbon Disulfide	6.45	76	318288	4.30 ug/L	92
12) Methylene Chloride	6.94	49	52940	1.36 ug/L	92
13) trans-1,2-Dichloroethene	7.44	61	48782	0.94 ug/L	93
14) Acrylonitrile	7.39	53	6760m	3.31 ug/L	
15) Methyl Tert Butyl Ether	7.46	73	53172	0.96 ug/L	94
16) 1,1-Dichloroethane	8.15	63	55156	0.98 ug/L	98
17) Vinyl acetate	8.26	43	214014	4.29 ug/L	97
18) Di-isopropyl ether	8.33	45	102551	0.98 ug/L	90
19) 2,2-Dichloropropane	9.14	77	49185	0.95 ug/L	97
20) cis-1,2-Dichloroethene	9.14	96	28529	1.06 ug/L #	77
21) 2-Butanone	9.19	43	26201	5.06 ug/L	88
22) Bromochloromethane	9.52	128	15636	0.93 ug/L #	74
23) Chloroform	9.68	83	58453	0.94 ug/L	92
24) 1,1,1-Trichloroethane	9.95	97	50959	0.87 ug/L	93
26) 1,1-Dichloropropene	10.23	75	37481	0.88 ug/L	89
27) Carbon Tetrachloride	10.25	117	38754	0.74 ug/L	90
29) Benzene	10.56	78	71505	1.16 ug/L #	9
30) 1,2-Dichloroethane	10.59	62	36191	1.16 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010432.D Vial: 1
Acq On : 10 Sep 1999 1:32 pm Operator: ClaudiaP
Sample : IC285-1,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:31 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Trichloroethene	11.63	95	37640	0.93 ug/L	97
32) 1,2-Dichloropropane	12.00	63	30905	0.95 ug/L #	84
33) Dibromomethane	12.21	93	21073	0.93 ug/L	85
35) Bromodichloromethane	12.47	83	41044	0.77 ug/L #	95
36) 2-Chloroethyl vinyl ether	12.96	63	10869	4.30 ug/L	89
37) 4-Methyl-2-pentanone	13.47	43	62785	3.67 ug/L	90
38) cis-1,3-Dichloropropene	13.21	75	32103	0.78 ug/L	95
41) Toluene	13.77	91	92049	0.89 ug/L	87
42) trans-1,3-Dichloropropene	14.13	75	26384	0.76 ug/L	93
43) 1,1,2-Trichloroethane	14.45	83	16727	0.83 ug/L	96
44) Tetrachloroethene	14.71	166	46316	0.95 ug/L	94
45) 2 hexanone	14.87	43	46741	4.01 ug/L	90
46) 1,3-Dichloropropane	14.73	76	34223	0.90 ug/L	91
47) Dibromochloromethane	15.13	129	24727	0.70 ug/L	83
48) 1,2-Dibromoethane	15.33	107	21385	0.73 ug/L	89
49) 1-Chlorohexane	16.11	91	44197	0.93 ug/L #	86
50) Chlorobenzene	16.18	112	70503	0.98 ug/L	92
51) 1,1,1,2-Tetrachloroethane	16.30	131	27180	0.77 ug/L #	82
52) Ethylbenzene	16.35	91	118833	0.94 ug/L	98
53) m,p-Xylene	16.56	91	193913	1.88 ug/L	95
54) o-Xylene	17.26	91	91422	0.91 ug/L	91
55) Styrene	17.28	104	50494	0.78 ug/L	94
56) Bromoform	17.61	173	12271	0.54 ug/L	88
58) Isopropylbenzene	17.90	105	121446	0.96 ug/L	96
60) Bromobenzene	18.46	156	33485	0.99 ug/L #	68
61) 1,1,2,2-Tetrachloroethane	18.43	83	23896	0.85 ug/L	99
62) 1,2,3-Trichloropropane	18.50	110	5746m	0.81 ug/L	
63) n-Propylbenzene	18.64	91	155341	0.99 ug/L	98
64) 2-Chlorotoluene	18.80	91	95796	1.03 ug/L	94
65) 4-Chlorotoluene	19.00	91	108338	1.02 ug/L	100
66) 1,3,5-Trimethylbenzene	18.96	105	103203	0.98 ug/L	97
67) sec-Butylbenzene	19.95	105	142019	0.99 ug/L	93
68) 1,3-Dichlorobenzene	20.15	146	62432	1.00 ug/L	88
69) 4-Isopropyltoluene	20.21	119	113053	0.98 ug/L	97
70) 1,4-Dichlorobenzene	20.31	146	69546m	1.08 ug/L	
71) tert-Butylbenzene	19.56	91	80696	0.93 ug/L	96
72) n-Butylbenzene	20.96	91	117969	0.96 ug/L	97
73) 1,2-Dichlorobenzene	21.00	146	54015	0.99 ug/L	85
74) 1,2,4-Trimethylbenzene	19.64	105	104487	1.00 ug/L	93
75) 1,2-Dibromo-3-Chloropropan	22.42	75	2280m	0.47 ug/L	
76) 1,2,4-Trichlorobenzene	24.16	180	36396	0.85 ug/L	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010432.D Vial: 1
Acq On : 10 Sep 1999 1:32 pm Operator: ClaudiaP
Sample : IC285-1,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:31 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

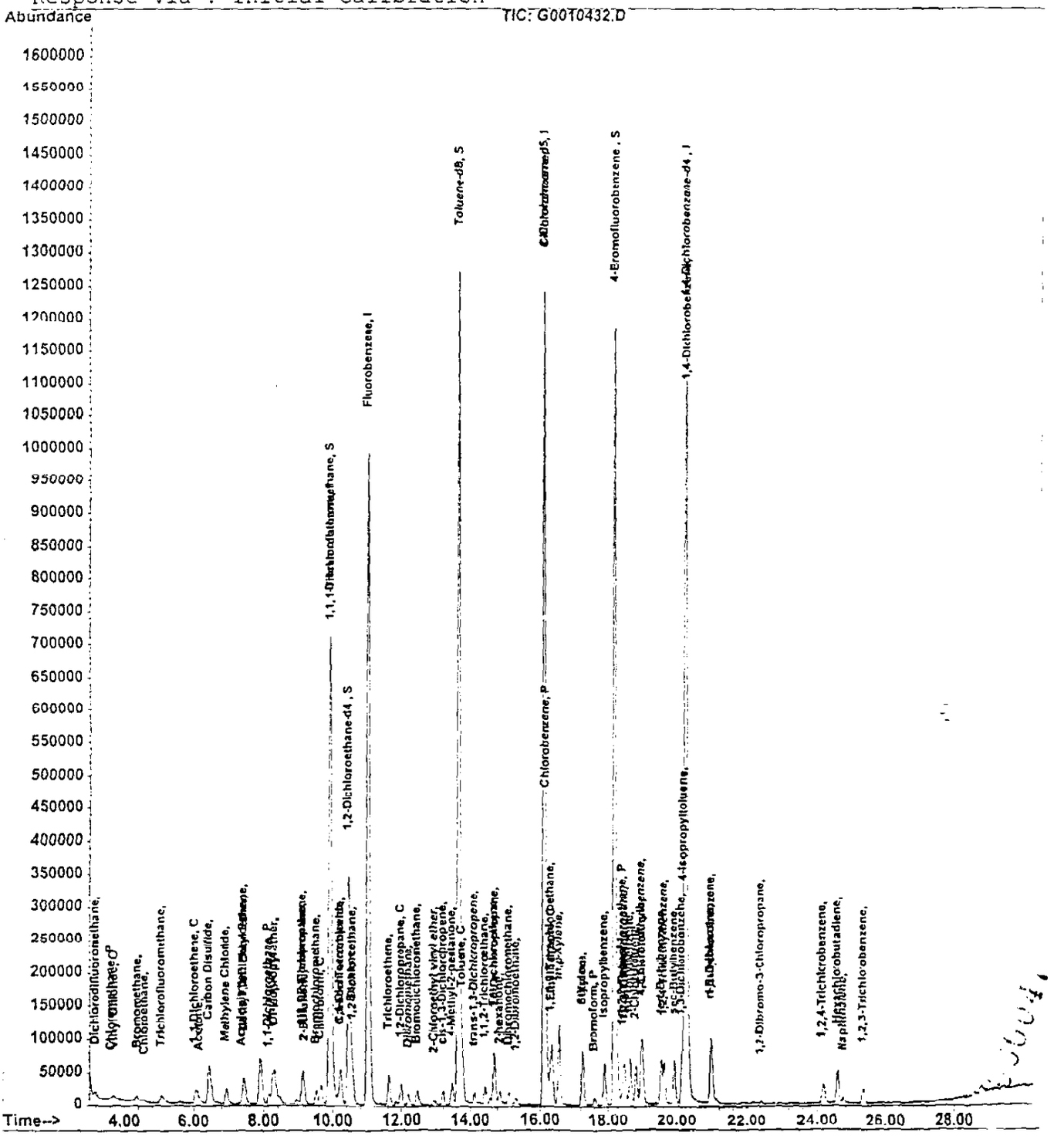
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) Hexachlorobutadiene	24.58	225	30238	1.08 ug/L	83
78) Naphthalene	24.76	128	34713m	0.76 ug/L	
79) 1,2,3-Trichlorobenzene	25.37	180	30416	0.85 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010432.D Vial: 1
Acq On : 10 Sep 1999 1:32 pm Operator: ClaudiaP
Sample : IC285-1,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:31 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010433.D Vial: 2
Acq On : 10 Sep 1999 2:11 pm Operator: ClaudiaP
Sample : IC285-5,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:33 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.00	96	2293539	25.00 ug/L	0.01
39) Chlorobenzene-d5	16.09	117	1705799	25.00 ug/L	0.01
57) 1,4-Dichlorobenzene-d4	20.26	152	1065995	25.00 ug/L	0.01
System Monitoring Compounds					
25) Dibromofluoromethane	9.91	113	1207978	50.34	0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.68%		
28) 1,2-Dichloroethane-d4	10.47	65	666750	50.05	0.02
Spiked Amount 50.000	Range 74 - 120		Recovery = 100.10%		
40) Toluene-d8	13.64	98	2256227	50.53	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.06%		
59) 4-Bromofluorobenzene	18.17	95	1165041	49.91	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.82%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.17	85	245627	8.66 ug/L	100
3) Chloromethane	3.66	50	112834	6.44 ug/L	98
4) Vinyl Chloride	3.73	62	125226	5.96 ug/L	95
5) Bromomethane	4.37	94	113623	5.88 ug/L	97
6) Chloroethane	4.54	64	86317m	6.89 ug/L	
7) Trichlorofluoromethane	5.10	101	344016	5.27 ug/L	94
8) Acrolein	5.90	56	7469m	14.93 ug/L	
9) 1,1-Dichloroethene	6.07	61	264823	5.25 ug/L	97
10) Acetone	6.19	43	78666	26.73 ug/L	98
11) Carbon Disulfide	6.44	76	1838429	25.80 ug/L	97
12) Methylene Chloride	6.94	49	188804	5.02 ug/L	87
13) trans-1,2-Dichloroethene	7.44	61	257077	5.15 ug/L	95
14) Acrylonitrile	7.36	53	34161	17.39 ug/L	95
15) Methyl Tert Butyl Ether	7.46	73	269740	5.06 ug/L	97
16) 1,1-Dichloroethane	8.15	63	293713	5.41 ug/L	94
17) Vinyl acetate	8.26	43	1127165	23.46 ug/L	99
18) Di-isopropyl ether	8.32	45	504057	4.99 ug/L	94
19) 2,2-Dichloropropane	9.10	77	267294	5.37 ug/L	99
20) cis-1,2-Dichloroethene	9.12	96	133449	5.16 ug/L	89
21) 2-Butanone	9.17	43	124965	25.02 ug/L	99
22) Bromochloromethane	9.52	128	87901	5.43 ug/L #	73
23) Chloroform	9.65	83	317572	5.29 ug/L	95
24) 1,1,1-Trichloroethane	9.94	97	297468	5.29 ug/L	97
26) 1,1-Dichloropropene	10.22	75	216989	5.27 ug/L	96
27) Carbon Tetrachloride	10.23	117	247111	4.93 ug/L	95
29) Benzene	10.55	78	351767	5.91 ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010433.D Vial: 2
Acq On : 10 Sep 1999 2:11 pm Operator: ClaudiaP
ample : IC285-5,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:33 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,2-Dichloroethane	10.57	62	173483	5.76 ug/L	96
31) Trichloroethene	11.62	95	197047	5.04 ug/L	96
32) 1,2-Dichloropropane	11.97	63	161700	5.16 ug/L	94
33) Dibromomethane	12.17	93	109247	5.00 ug/L	96
34) 1,4-Dioxane	12.26	88	11037	91.46 ug/L #	79
35) Bromodichloromethane	12.45	83	244736	4.79 ug/L	90
36) 2-Chloroethyl vinyl ether	12.93	63	54802	22.51 ug/L #	75
37) 4-Methyl-2-pentanone	13.44	43	374135	22.70 ug/L	98
38) cis-1,3-Dichloropropene	13.19	75	197050	4.96 ug/L	97
41) Toluene	13.75	91	510743	5.29 ug/L	98
42) trans-1,3-Dichloropropene	14.10	75	146332	4.53 ug/L	97
3) 1,1,2-Trichloroethane	14.42	83	101238	5.36 ug/L	95
4) Tetrachloroethene	14.69	166	246549	5.41 ug/L	97
45) 2-hexanone	14.85	43	251712	23.08 ug/L	96
46) 1,3-Dichloropropane	14.69	76	182752	5.16 ug/L	96
47) Dibromochloromethane	15.11	129	148129	4.45 ug/L	96
48) 1,2-Dibromoethane	15.31	107	130645	4.77 ug/L	86
49) 1-Chlorohexane	16.08	91	231254	5.19 ug/L	92
50) Chlorobenzene	16.15	112	363141	5.38 ug/L	96
51) 1,1,1,2-Tetrachloroethane	16.29	131	166167	5.03 ug/L	96
52) Ethylbenzene	16.33	91	628710	5.32 ug/L	96
53) m,p-Xylene	16.54	91	981656	10.16 ug/L	99
54) o-Xylene	17.24	91	496822	5.25 ug/L	98
55) Styrene	17.26	104	301718	5.00 ug/L	99
56) Bromoform	17.60	173	86118	4.07 ug/L	94
58) Isopropylbenzene	17.89	105	646366	5.16 ug/L	98
60) Bromobenzene	18.44	156	172472	5.13 ug/L	90
61) 1,1,2,2-Tetrachloroethane	18.41	83	134721	4.80 ug/L	96
62) 1,2,3-Trichloropropane	18.47	110	34295	4.87 ug/L	86
63) n-Propylbenzene	18.62	91	799072	5.14 ug/L	96
64) 2-Chlorotoluene	18.78	91	484266	5.23 ug/L	97
65) 4-Chlorotoluene	18.98	91	546135	5.18 ug/L	97
66) 1,3,5-Trimethylbenzene	18.93	105	543083	5.20 ug/L	99
67) sec-Butylbenzene	19.92	105	739360	5.18 ug/L	97
68) 1,3-Dichlorobenzene	20.14	146	321898	5.17 ug/L	97
69) 4-Isopropyltoluene	20.18	119	602815	5.25 ug/L	100
70) 1,4-Dichlorobenzene	20.29	146	335891	5.26 ug/L	89
71) tert-Butylbenzene	19.52	91	441657	5.13 ug/L	97
72) n-Butylbenzene	20.95	91	637214	5.22 ug/L	92
73) 1,2-Dichlorobenzene	20.99	146	287196	5.27 ug/L	94
74) 1,2,4-Trimethylbenzene	19.62	105	538811	5.17 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010433.D Vial: 2
Acq On : 10 Sep 1999 2:11 pm Operator: ClaudiaP
Sample : IC285-5,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:33 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

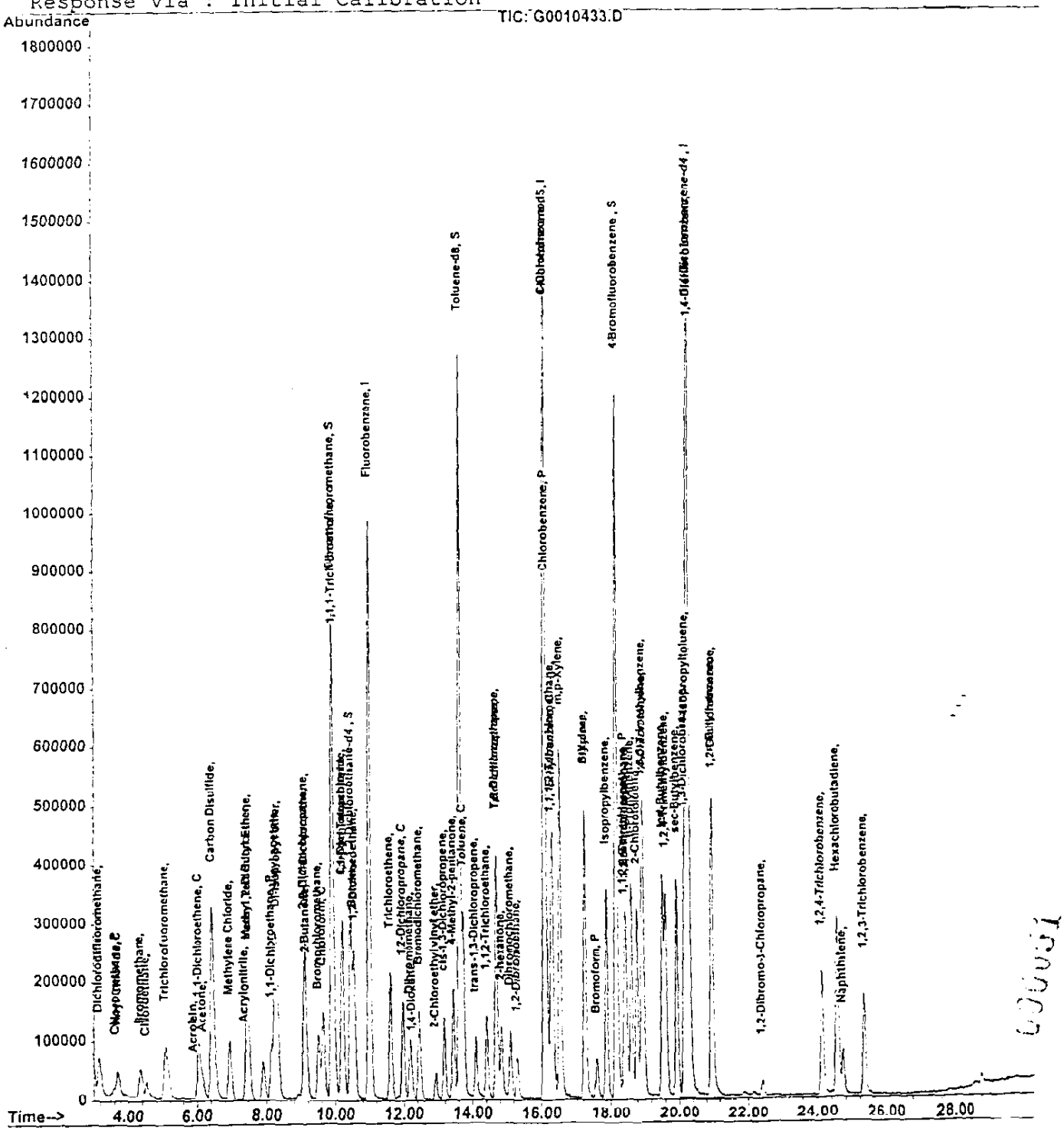
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) 1,2-Dibromo-3-Chloropropan	22.42	75	20620	4.26 ug/L #	86
76) 1,2,4-Trichlorobenzene	24.16	180	207308	4.85 ug/L	97
77) Hexachlorobutadiene	24.55	225	163131	5.89 ug/L	91
78) Naphthalene	24.73	128	203574	4.47 ug/L	98
79) 1,2,3-Trichlorobenzene	25.34	180	177825	4.98 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010433.D Vial: 2
Acq On : 10 Sep 1999 2:11 pm Operator: ClaudiaP
Sample : IC285-5,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:33 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010434.D Vial: 3
Acq On : 10 Sep 1999 2:50 pm Operator: ClaudiaP
Sample : IC285-10,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:35 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

CP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.99	96	2257956	25.00 ug/L	0.00
39) Chlorobenzene-d5	16.09	117	1695418	25.00 ug/L	0.00
57) 1,4-Dichlorobenzene-d4	20.27	152	1050102	25.00 ug/L	0.01
System Monitoring Compounds					
25) Dibromofluoromethane	9.91	113	1166291	49.37	0.01
Spiked Amount 50.000	Range 80 - 116		Recovery =	98.74%	
28) 1,2-Dichloroethane-d4	10.44	65	623198	47.51	0.00
Spiked Amount 50.000	Range 74 - 120		Recovery =	95.02%	
40) Toluene-d8	13.63	98	2208865	49.77	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery =	99.54%	
59) 4-Bromofluorobenzene	18.16	95	1120612	48.73	-0.01
Spiked Amount 50.000	Range 86 - 115		Recovery =	97.46%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.18	85	450922	16.15 ug/L	99
3) Chloromethane	3.62	50	218984	12.70 ug/L	99
4) Vinyl Chloride	3.72	62	235912	11.40 ug/L	99
5) Bromomethane	4.35	94	217654	11.43 ug/L	96
6) Chloroethane	4.54	64	126240	10.23 ug/L	89
7) Trichlorofluoromethane	5.06	101	635191	9.88 ug/L	88
8) Acrolein	5.86	56	13019m	26.44 ug/L	
9) 1,1-Dichloroethene	6.05	61	482353	9.72 ug/L	98
10) Acetone	6.19	43	142817	49.30 ug/L	98
11) Carbon Disulfide	6.43	76	3449949	49.19 ug/L	96
12) Methylene Chloride	6.92	49	357066	9.64 ug/L	94
13) trans-1,2-Dichloroethene	7.42	61	479600	9.75 ug/L	98
14) Acrylonitrile	7.38	53	66622	34.44 ug/L	89
15) Methyl Tert Butyl Ether	7.46	73	509283	9.70 ug/L	98
16) 1,1-Dichloroethane	8.15	63	536110	10.04 ug/L	93
17) Vinyl acetate	8.24	43	2164712	45.76 ug/L	98
18) Di-isopropyl ether	8.31	45	941909	9.47 ug/L	92
19) 2,2-Dichloropropane	9.09	77	485222	9.91 ug/L	100
20) cis-1,2-Dichloroethene	9.11	96	251142	9.86 ug/L	97
21) 2-Butanone	9.15	43	218807	44.51 ug/L	96
22) Bromochloromethane	9.50	128	161453	10.12 ug/L	90
23) Chloroform	9.63	83	600193	10.16 ug/L	98
24) 1,1,1-Trichloroethane	9.94	97	536251	9.69 ug/L	94
26) 1,1-Dichloropropene	10.21	75	401256	9.90 ug/L	96
27) Carbon Tetrachloride	10.21	117	474826	9.61 ug/L	94
29) Benzene	10.53	78	665121	11.36 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010434.D Vial: 3
Acq On : 10 Sep 1999 2:50 pm Operator: ClaudiaP
Sample : IC285-10,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:35 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,2-Dichloroethane	10.57	62	337820	11.38 ug/L	99
31) Trichloroethene	11.60	95	378941	9.85 ug/L	93
32) 1,2-Dichloropropane	11.97	63	301726	9.78 ug/L	92
33) Dibromomethane	12.19	93	211324	9.83 ug/L	98
34) 1,4-Dioxane	12.26	88	21321	179.47 ug/L	92
35) Bromodichloromethane	12.44	83	486049	9.66 ug/L	98
36) 2-Chloroethyl vinyl ether	12.93	63	115283	48.10 ug/L	92
37) 4-Methyl-2-pentanone	13.45	43	752180	46.35 ug/L	99
38) cis-1,3-Dichloropropene	13.10	75	381567	9.76 ug/L	98
41) Toluene	13.74	91	921932	9.61 ug/L	99
42) trans-1,3-Dichloropropene	14.10	75	291114	9.07 ug/L	96
43) 1,1,2-Trichloroethane	14.41	83	183601	9.77 ug/L	97
44) Tetrachloroethene	14.69	166	457705	10.11 ug/L	98
45) 2-hexanone	14.84	43	484352	44.68 ug/L	98
46) 1,3-Dichloropropane	14.70	76	340557	9.67 ug/L	97
47) Dibromochloromethane	15.11	129	296509	8.96 ug/L	97
48) 1,2-Dibromoethane	15.30	107	261904	9.61 ug/L	97
49) 1-Chlorohexane	16.09	91	432333	9.76 ug/L	96
50) Chlorobenzene	16.14	112	671414	10.00 ug/L	98
51) 1,1,1,2-Tetrachloroethane	16.28	131	311127	9.47 ug/L	99
52) Ethylbenzene	16.34	91	1132273	9.63 ug/L	95
53) m,p-Xylene	16.53	91	1882856	19.61 ug/L	97
54) o-Xylene	17.23	91	930579	9.90 ug/L	96
55) Styrene	17.25	104	580623	9.68 ug/L	98
56) Bromoform	17.60	173	177515	8.44 ug/L	97
58) Isopropylbenzene	17.88	105	1221533	9.91 ug/L	96
60) Bromobenzene	18.44	156	330994	9.99 ug/L	88
61) 1,1,2,2-Tetrachloroethane	18.40	83	258418	9.35 ug/L	95
62) 1,2,3-Trichloropropane	18.47	110	67844	9.78 ug/L #	79
63) n-Propylbenzene	18.62	91	1488282	9.72 ug/L	99
64) 2-Chlorotoluene	18.77	91	918387	10.07 ug/L	98
65) 4-Chlorotoluene	18.98	91	1023283	9.86 ug/L	100
66) 1,3,5-Trimethylbenzene	18.95	105	1020854	9.92 ug/L	95
67) sec-Butylbenzene	19.93	105	1388554	9.87 ug/L	96
68) 1,3-Dichlorobenzene	20.16	146	608838	9.92 ug/L	95
69) 4-Isopropyltoluene	20.20	119	1130159	10.00 ug/L	97
70) 1,4-Dichlorobenzene	20.31	146	632607	10.05 ug/L	94
71) tert-Butylbenzene	19.54	91	832128	9.82 ug/L	99
72) n-Butylbenzene	20.94	91	1165644	9.70 ug/L	97
73) 1,2-Dichlorobenzene	20.99	146	547634	10.21 ug/L	98
74) 1,2,4-Trimethylbenzene	19.63	105	995720	9.70 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010434.D Vial: 3
Acq On : 10 Sep 1999 2:50 pm Operator: ClaudiaP
ample : IC285-10,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:35 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

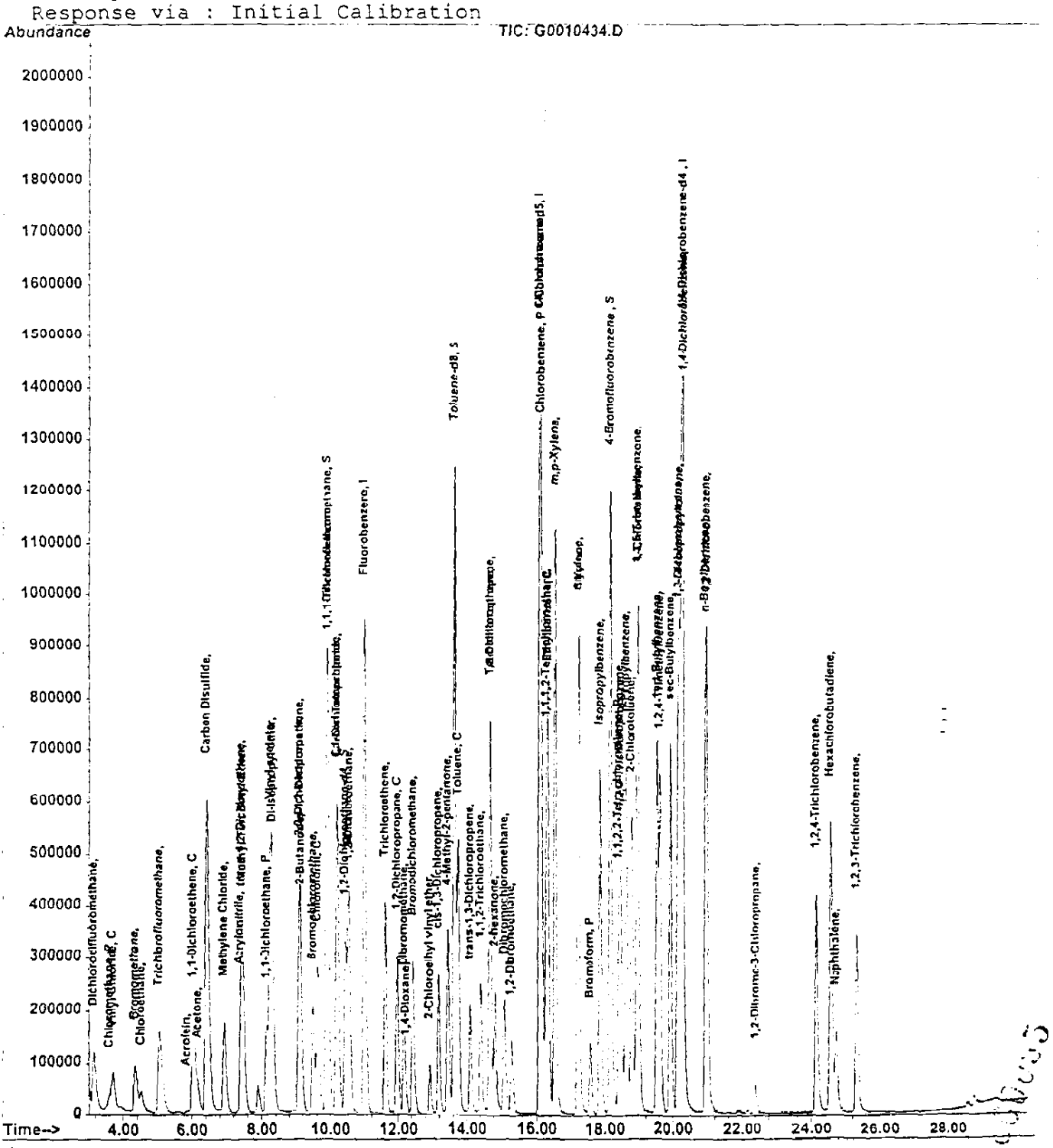
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) 1,2-Dibromo-3-Chloropropan	22.43	75	39917	8.37 ug/L #	82
76) 1,2,4-Trichlorobenzene	24.14	180	403747	9.58 ug/L	92
77) Hexachlorobutadiene	24.56	225	288538	10.57 ug/L	95
78) Naphthalene	24.71	128	427711	9.53 ug/L	99
79) 1,2,3-Trichlorobenzene	25.32	180	354257	10.07 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010434.D Vial: 3
Acq On : 10 Sep 1999 2:50 pm Operator: ClaudiaP
Sample : IC285-10,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:35 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010435.D Vial: 4
Acq On : 10 Sep 1999 3:29 pm Operator: ClaudiaP
Sample : ICC285-20,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:40 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.99	96	2300028	25.00 ug/L	0.00
39) Chlorobenzene-d5	16.09	117	1727821	25.00 ug/L	0.01
57) 1,4-Dichlorobenzene-d4	20.24	152	1086085	25.00 ug/L	0.00
System Monitoring Compounds					
25) Dibromofluoromethane	9.90	113	1173993	48.79	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery =	97.58%	
28) 1,2-Dichloroethane-d4	10.45	65	675313	50.55	0.00
Spiked Amount 50.000	Range 74 - 120		Recovery =	101.10%	
40) Toluene-d8	13.62	98	2252761	49.81	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	99.62%	
59) 4-Bromofluorobenzene	18.15	95	1144115	48.10	-0.02
Spiked Amount 50.000	Range 86 - 115		Recovery =	96.20%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.17	85	930645	32.71 ug/L	100
3) Chloromethane	3.63	50	421578	24.00 ug/L	100
4) Vinyl Chloride	3.72	62	504062	23.90 ug/L	97
5) Bromomethane	4.35	94	446410	23.02 ug/L	96
6) Chloroethane	4.51	64	243444	19.38 ug/L	90
7) Trichlorofluoromethane	5.05	101	1284431	19.60 ug/L	95
8) Acrolein	5.90	56	27774	55.37 ug/L	92
9) 1,1-Dichloroethene	6.03	61	975245	19.30 ug/L	99
10) Acetone	6.21	43	287152	97.31 ug/L	87
11) Carbon Disulfide	6.42	76	7035620	98.47 ug/L	98
12) Methylene Chloride	6.93	49	700899	18.58 ug/L	89
13) trans-1,2-Dichloroethene	7.42	61	996916	19.91 ug/L	98
14) Acrylonitrile	7.37	53	131280	66.62 ug/L	88
15) Methyl Tert Butyl Ether	7.47	73	1017428	19.03 ug/L	98
16) 1,1-Dichloroethane	8.13	63	1097688	20.17 ug/L	97
17) Vinyl acetate	8.25	43	3225572	66.93 ug/L	99
18) Di-isopropyl ether	8.31	45	1871915	18.47 ug/L	85
19) 2,2-Dichloropropane	9.10	77	1004979	20.15 ug/L	97
20) cis-1,2-Dichloroethene	9.10	96	519329	20.02 ug/L	94
21) 2-Butanone	9.16	43	460863	92.03 ug/L	94
22) Bromochloromethane	9.49	128	340778	20.97 ug/L	89
23) Chloroform	9.64	83	1209038	20.08 ug/L	97
24) 1,1,1-Trichloroethane	9.93	97	1102159	19.56 ug/L	93
26) 1,1-Dichloropropene	10.19	75	817878	19.81 ug/L	97
27) Carbon Tetrachloride	10.21	117	997172	19.82 ug/L	99
29) Benzene	10.54	78	1196247	20.06 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010435.D Vial: 4
Acq On : 10 Sep 1999 3:29 pm Operator: ClaudiaP
ample : ICC285-20,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:40 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30)	1,2-Dichloroethane	10.57	62	628290	20.79 ug/L	97
31)	Trichloroethene	11.60	95	792265	20.22 ug/L	99
32)	1,2-Dichloropropane	11.98	63	622541	19.81 ug/L	97
33)	Dibromomethane	12.18	93	442902	20.22 ug/L	95
34)	1,4-Dioxane	12.25	88	46428	383.66 ug/L	86
35)	Bromodichloromethane	12.44	83	1026901	20.04 ug/L	95
36)	2-Chloroethyl vinyl ether	12.91	63	240049	98.32 ug/L	91
37)	4-Methyl-2-pentanone	13.43	43	1497675	90.60 ug/L	98
38)	cis-1,3 Dichloropropene	13.17	75	814243	20.44 ug/L	94
41)	Toluene	13.74	91	1879363	19.23 ug/L	98
42)	trans-1,3-Dichloropropene	14.08	75	625271	19.11 ug/L	95
3)	1,1,2-Trichloroethane	14.41	83	379895	19.84 ug/L	97
4)	Tetrachloroethene	14.69	166	940747	20.39 ug/L	95
45)	2-hexanone	14.82	43	1000465	90.56 ug/L	99
46)	1,3-Dichloropropane	14.69	76	691294	19.26 ug/L	96
47)	Dibromochloromethane	15.09	129	674417	19.99 ug/L	97
48)	1,2-Dibromoethane	15.30	107	540709	19.47 ug/L	96
49)	1-Chlorohexane	16.08	91	871587	19.30 ug/L	95
50)	Chlorobenzene	16.14	112	1366833	19.98 ug/L	98
51)	1,1,1,2-Tetrachloroethane	16.28	131	665284	19.88 ug/L	98
52)	Ethylbenzene	16.32	91	2311478	19.29 ug/L	100
53)	m,p-Xylene	16.52	91	3785052	38.69 ug/L	99
54)	o-Xylene	17.23	91	1873470	19.56 ug/L	97
55)	Styrene	17.25	104	1227712	20.09 ug/L	93
56)	Bromoform	17.60	173	399374	18.64 ug/L	94
58)	Isopropylbenzene	17.88	105	2452265	19.23 ug/L	96
60)	Bromobenzene	18.44	156	672960	19.64 ug/L	89
61)	1,1,2,2-Tetrachloroethane	18.40	83	503413	17.61 ug/L	97
62)	1,2,3-Trichloropropane	18.47	110	138298	19.28 ug/L #	88
63)	n-Propylbenzene	18.62	91	3047870	19.24 ug/L	97
64)	2-Chlorotoluene	18.78	91	1815676	19.25 ug/L	96
65)	4-Chlorotoluene	18.96	91	2077588	19.36 ug/L	99
66)	1,3,5-Trimethylbenzene	18.93	105	2061993	19.37 ug/L	96
67)	sec-Butylbenzene	19.92	105	2735228	18.79 ug/L	97
68)	1,3-Dichlorobenzene	20.14	146	1233838	19.44 ug/L	96
69)	4-Isopropyltoluene	20.18	119	2248814	19.24 ug/L	99
70)	1,4-Dichlorobenzene	20.29	146	1235531	18.98 ug/L	97
1)	tert-Butylbenzene	19.52	91	1652864	18.86 ug/L	99
72)	n-Butylbenzene	20.94	91	2337381	18.80 ug/L	97
73)	1,2-Dichlorobenzene	20.98	146	1050301	18.93 ug/L	93
74)	1,2,4-Trimethylbenzene	19.61	105	2021617	19.04 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010435.D Vial: 4
Acq On : 10 Sep 1999 3:29 pm Operator: ClaudiaP
Sample : ICC285-20,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:40 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

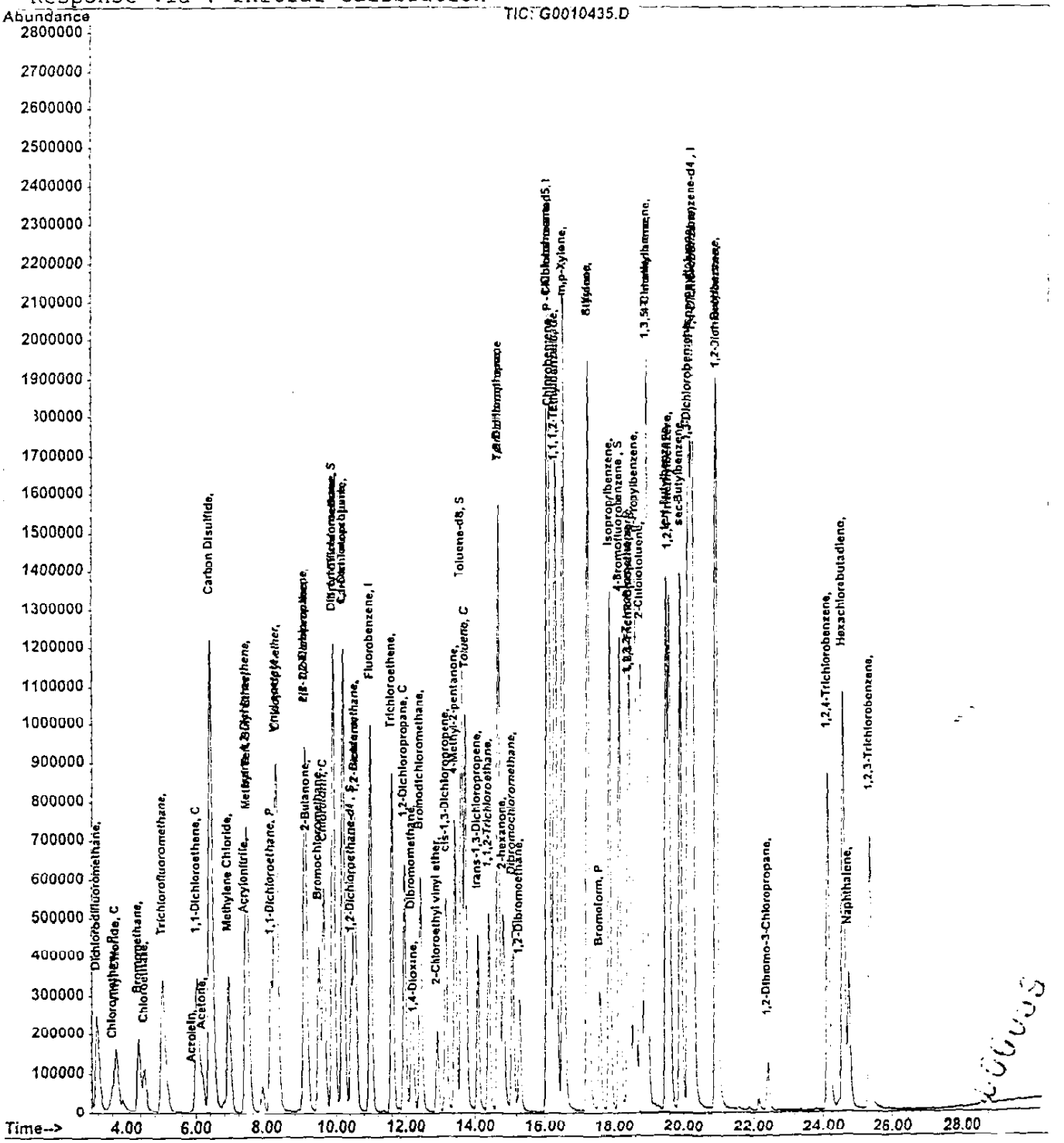
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) 1,2-Dibromo-3-Chloropropan	22.42	75	86151	17.47 ug/L #	82
76) 1,2,4-Trichlorobenzene	24.15	180	865086	19.85 ug/L	95
77) Hexachlorobutadiene	24.55	225	594649	21.06 ug/L	84
78) Naphthalene	24.71	128	926472	19.96 ug/L	100
79) 1,2,3-Trichlorobenzene	25.32	180	738300	20.29 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010435.D Vial: 4
Acq On : 10 Sep 1999 3:29 pm Operator: ClaudiaP
ample : ICC285-20,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:40 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010436.D Vial: 5
Acq On : 10 Sep 1999 4:08 pm Operator: ClaudiaP
Sample : IC285-35,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:58 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.99	96	2290982	25.00	ug/L	0.00
39) Chlorobenzene-d5	16.10	117	1707464	25.00	ug/L	0.01
57) 1,4-Dichlorobenzene-d4	20.27	152	1080892	25.00	ug/L	0.01
System Monitoring Compounds						
25) Dibromofluoromethane	9.91	113	1200574	50.09		0.01
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.18%			
28) 1,2-Dichloroethane-d4	10.45	65	625587	47.01		0.00
Spiked Amount 50.000	Range 74 - 120		Recovery = 94.02%			
40) Toluene-d8	13.63	98	2267665	50.74		0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.48%			
9) 4-Bromofluorobenzene	18.16	95	1171417	49.49		-0.02
Spiked Amount 50.000	Range 86 - 115		Recovery = 98.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.20	85	1608571	56.77	ug/L	100
3) Chloromethane	3.65	50	738772	42.22	ug/L	95
4) Vinyl Chloride	3.74	62	876801	41.74	ug/L	99
5) Bromomethane	4.37	94	817575	42.33	ug/L	99
6) Chloroethane	4.53	64	423642	33.85	ug/L	89
7) Trichlorofluoromethane	5.02	101	2248647	34.46	ug/L	98
8) Acrolein	5.89	56	44930m	89.93	ug/L	
9) 1,1-Dichloroethene	6.02	61	1729711	34.36	ug/L	99
10) Acetone	6.23	43	469272	159.65	ug/L	98
11) Carbon Disulfide	6.41	76	12654970	177.82	ug/L	97
12) Methylene Chloride	6.94	49	1215396	32.34	ug/L	93
13) trans-1,2-Dichloroethene	7.42	61	1755195	35.18	ug/L	98
14) Acrylonitrile	7.40	53	238677	121.60	ug/L	92
15) Methyl Tert Butyl Ether	7.47	73	1819438	34.17	ug/L	97
16) 1,1-Dichloroethane	8.15	63	1941467	35.82	ug/L	94
17) Vinyl acetate	8.25	43	8000780	166.68	ug/L	100
18) Di-isopropyl ether	8.32	45	3348513	33.18	ug/L	95
19) 2,2-Dichloropropane	9.10	77	1768291	35.59	ug/L	98
20) cis-1,2-Dichloroethene	9.12	96	900195	34.84	ug/L	93
21) 2-Butanone	9.17	43	784283	157.23	ug/L	92
22) Bromochloromethane	9.50	128	589845	36.45	ug/L	89
23) Chloroform	9.64	83	2163780	36.09	ug/L	98
24) 1,1,1-Trichloroethane	9.94	97	1954793	34.82	ug/L	97
26) 1,1-Dichloropropene	10.20	75	1430966	34.79	ug/L	98
27) Carbon Tetrachloride	10.20	117	1795105	35.82	ug/L	97
29) Benzene	10.54	78	2253407	37.93	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010436.D Vial: 5
Acq On : 10 Sep 1999 4:08 pm Operator: ClaudiaP
Sample : IC285-35,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:58 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	1,2-Dichloroethane	10.57	62	1152493	38.28 ug/L		98
31)	Trichloroethene	11.61	95	1327206	34.00 ug/L		98
32)	1,2-Dichloropropane	11.97	63	1097012	35.04 ug/L		96
33)	Dibromomethane	12.18	93	778327	35.68 ug/L		96
34)	1,4-Dioxane	12.26	88	85718	711.14 ug/L	#	78
35)	Bromodichloromethane	12.44	83	1877854	36.78 ug/L		93
36)	2-Chloroethyl vinyl ether	12.92	63	507996	208.90 ug/L		96
37)	4-Methyl-2-pentanone	13.44	43	2664631	161.84 ug/L		99
38)	cis-1,3-Dichloropropene	13.17	75	1480954	37.32 ug/L		98
41)	Toluene	13.74	91	3328565	34.47 ug/L		99
42)	trans-1,3-Dichloropropene	14.10	75	1171911	36.24 ug/L		99
3)	1,1,2-Trichloroethane	14.42	83	674250	35.64 ug/L		97
4)	Tetrachloroethene	14.69	166	1639312	35.95 ug/L		95
45)	2-hexanone	14.84	43	1723868	157.90 ug/L		98
46)	1,3-Dichloropropane	14.70	76	1224375	34.52 ug/L		96
47)	Dibromochloromethane	15.10	129	1225835	36.76 ug/L		96
48)	1,2-Dibromoethane	15.30	107	967498	35.26 ug/L		94
49)	1-Chlorohexane	16.09	91	1578255	35.37 ug/L		94
50)	Chlorobenzene	16.14	112	2366877	35.01 ug/L		99
51)	1,1,1,2-Tetrachloroethane	16.28	131	1202862	36.36 ug/L		92
52)	Ethylbenzene	16.32	91	3998829	33.78 ug/L		99
53)	m,p-Xylene	16.53	91	6732297	69.64 ug/L		99
54)	o-Xylene	17.23	91	3332677	35.21 ug/L		96
55)	Styrene	17.25	104	2115890	35.03 ug/L		96
56)	Bromoform	17.59	173	755553	35.68 ug/L		98
58)	Isopropylbenzene	17.88	105	4349978	34.27 ug/L		98
60)	Bromobenzene	18.44	156	1183661	34.71 ug/L		96
61)	1,1,2,2-Tetrachloroethane	18.39	83	950361	33.41 ug/L		99
62)	1,2,3-Trichloropropane	18.48	110	239754	33.58 ug/L	#	82
63)	n-Propylbenzene	18.62	91	5327976	33.79 ug/L		95
64)	2-Chlorotoluene	18.79	91	3225303	34.37 ug/L		99
65)	4-Chlorotoluene	18.97	91	3680218	34.46 ug/L		100
66)	1,3,5-Trimethylbenzene	18.94	105	3615707	34.12 ug/L		98
67)	sec-Butylbenzene	19.94	105	4943400	34.12 ug/L		99
68)	1,3-Dichlorobenzene	20.15	146	2165674	34.28 ug/L		98
69)	4-Isopropyltoluene	20.20	119	3971151	34.13 ug/L		95
70)	1,4-Dichlorobenzene	20.31	146	2229072	34.40 ug/L		97
1)	tert-Butylbenzene	19.53	91	2904282	33.30 ug/L		97
72)	n-Butylbenzene	20.95	91	4250360	34.35 ug/L		98
73)	1,2-Dichlorobenzene	20.99	146	1880721	34.06 ug/L		95
74)	1,2,4-Trimethylbenzene	19.62	105	3552772	33.63 ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010436.D Vial: 5
Acq On : 10 Sep 1999 4:08 pm Operator: ClaudiaP
ample : IC285-35,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:58 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) 1,2-Dibromo-3-Chloropropan	22.41	75	165856	33.80 ug/L #	84
76) 1,2,4-Trichlorobenzene	24.15	180	1524958	35.15 ug/L	96
77) Hexachlorobutadiene	24.55	225	1102221	39.23 ug/L	96
78) Naphthalene	24.71	128	1677239	36.32 ug/L	99
79) 1,2,3-Trichlorobenzene	25.33	180	1312583	36.24 ug/L	93

(#) = qualifier out of range (m) = manual integration

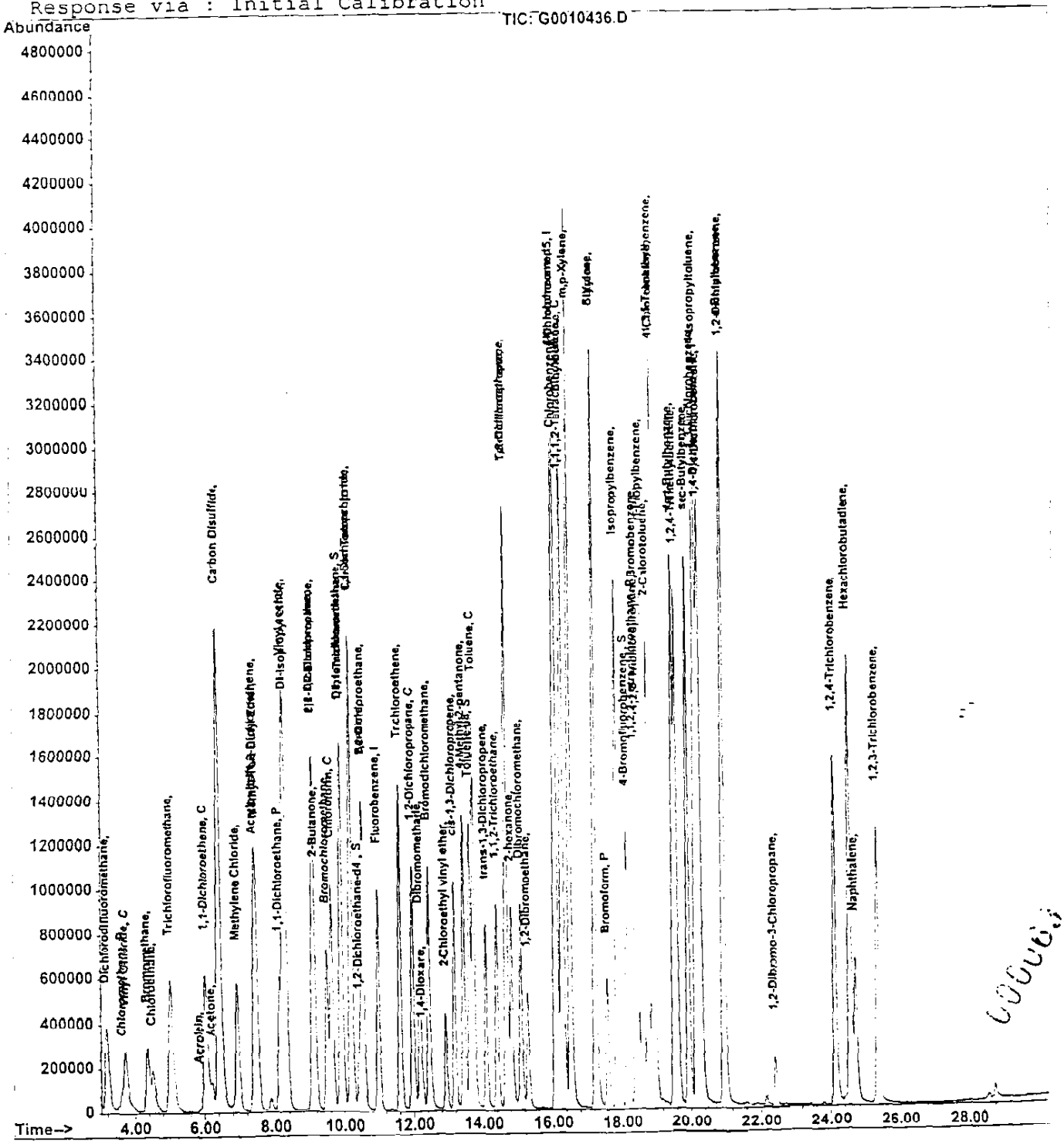
Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010436.D
Acq On : 10 Sep 1999 4:08 pm
Sample : IC285-35,10ml
Misc : ms374,vg285,,,,,
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:58 1999

Vial: 5
Operator: ClaudiaP
Inst : MSVOA1
Multiplr: 1.00

Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010437.D Vial: 6
Acq On : 10 Sep 1999 4:47 pm Operator: ClaudiaP
ample : IC285-50,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:41 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.99	96	2272240	25.00 ug/L	0.00
39) Chlorobenzene-d5	16.09	117	1711492	25.00 ug/L	0.00
57) 1,4-Dichlorobenzene-d4	20.25	152	1070056	25.00 ug/L	0.00
System Monitoring Compounds					
25) Dibromofluoromethane	9.90	113	1203105	50.61	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.22%		
28) 1,2-Dichloroethane-d4	10.45	65	662153	50.17	0.00
Spiked Amount 50.000	Range 74 - 120		Recovery = 100.34%		
40) Toluene-d8	13.63	98	2261177	50.47	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.94%		
59) 4-Bromofluorobenzene	18.17	95	1165953	49.76	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.52%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.18	85	2207591	78.55 ug/L	97
3) Chloromethane	3.64	50	1022199	58.90 ug/L	95
4) Vinyl Chloride	3.73	62	1242115	59.62 ug/L	94
5) Bromomethane	4.35	94	1153779	60.23 ug/L	92
6) Chloroethane	4.51	64	587883	47.36 ug/L	94
7) Trichlorofluoromethane	4.99	101	3041107	46.98 ug/L	99
8) Acrolein	5.89	56	66002	133.20 ug/L	85
9) 1,1-Dichloroethene	6.01	61	2417908	48.42 ug/L	97
10) Acetone	6.24	43	633716	217.37 ug/L	95
11) Carbon Disulfide	6.39	76	17817432	252.42 ug/L	96
12) Methylene Chloride	6.92	49	1701001	45.64 ug/L	91
13) trans-1,2-Dichloroethene	7.41	61	2456808	49.65 ug/L	98
14) Acrylonitrile	7.41	53	318141	163.43 ug/L	98
15) Methyl Tert Butyl Ether	7.50	73	2573471	48.72 ug/L	96
16) 1,1-Dichloroethane	8.14	63	2750028	51.16 ug/L	94
17) Vinyl acetate	8.26	43	11292866	237.20 ug/L	99
18) Di-isopropyl ether	8.32	45	4702914	46.98 ug/L	100
19) 2,2-Dichloropropane	9.10	77	2462465	49.97 ug/L	99
20) cis-1,2-Dichloroethene	9.11	96	1265586	49.38 ug/L	95
21) 2-Butanone	9.17	43	1106823	223.72 ug/L	100
22) Bromochloromethane	9.50	128	839486	52.30 ug/L	91
23) Chloroform	9.64	83	3014337	50.69 ug/L	94
24) 1,1,1-Trichloroethane	9.92	97	2703955	48.56 ug/L	99
26) 1,1-Dichloropropene	10.19	75	2009372	49.26 ug/L	98
27) Carbon Tetrachloride	10.21	117	2513806	50.57 ug/L	99
29) Benzene	10.53	78	3352201	56.89 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010437.D Vial: 6
Acq On : 10 Sep 1999 4:47 pm Operator: ClaudiaP
Sample : IC285-50,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:41 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,2-Dichloroethane	10.56	62	1653498	55.37 ug/L	99
31) Trichloroethene	11.60	95	1903255	49.16 ug/L	98
32) 1,2-Dichloropropane	11.97	63	1562907	50.34 ug/L	97
33) Dibromomethane	12.18	93	1095402	50.62 ug/L	93
34) 1,4-Dioxane	12.26	88	119150	996.66 ug/L #	82
35) Bromodichloromethane	12.44	83	2651912	52.37 ug/L	99
36) 2-Chloroethyl vinyl ether	12.92	63	672941	279.01 ug/L	96
37) 4-Methyl-2-pentanone	13.44	43	3738691	228.94 ug/L	99
38) cis-1,3-Dichloropropene	13.18	75	2085731	52.99 ug/L	98
41) Toluene	13.74	91	4595930	47.48 ug/L	92
42) trans-1,3-Dichloropropene	14.10	75	1677540	51.75 ug/L	95
43) 1,1,2-Trichloroethane	14.41	83	937363	49.43 ug/L	96
44) Tetrachloroethene	14.68	166	2264069	49.53 ug/L	96
45) 2-hexanone	14.83	43	2437866	222.78 ug/L	100
46) 1,3-Dichloropropane	14.69	76	1686359	47.43 ug/L	97
47) Dibromochloromethane	15.11	129	1745354	52.22 ug/L	98
48) 1,2-Dibromoethane	15.30	107	1365597	49.65 ug/L	92
49) 1-Chlorohexane	16.08	91	2133591	47.70 ug/L	96
50) Chlorobenzene	16.14	112	3372173	49.76 ug/L	98
51) 1,1,1,2-Tetrachloroethane	16.29	131	1731496	52.22 ug/L	94
52) Ethylbenzene	16.33	91	5782261	48.73 ug/L	98
53) m,p-Xylene	16.54	91	9504282	98.08 ug/L	93
54) o-Xylene	17.23	91	4636695	48.87 ug/L	97
55) Styrene	17.26	104	3068148	50.68 ug/L	95
56) Bromoform	17.60	173	1091764	51.44 ug/L	95
58) Isopropylbenzene	17.89	105	6204714	49.38 ug/L	97
60) Bromobenzene	18.45	156	1696954	50.27 ug/L	91
61) 1,1,2,2-Tetrachloroethane	18.40	83	1340745	47.61 ug/L	97
62) 1,2,3-Trichloropropane	18.48	110	338863	47.95 ug/L #	83
63) n-Propylbenzene	18.62	91	7549836	48.37 ug/L	99
64) 2-Chlorotoluene	18.78	91	4501309	48.45 ug/L	97
65) 4-Chlorotoluene	18.97	91	5132519	48.54 ug/L	100
66) 1,3,5-Trimethylbenzene	18.93	105	5106595	48.68 ug/L	98
67) sec-Butylbenzene	19.93	105	7173954	50.02 ug/L	99
68) 1,3-Dichlorobenzene	20.13	146	3147895	50.34 ug/L	95
69) 4-Isopropyltoluene	20.19	119	5538779	48.09 ug/L	100
70) 1,4-Dichlorobenzene	20.30	146	3173459	49.48 ug/L	94
71) tert-Butylbenzene	19.53	91	4195884	48.59 ug/L	97
72) n-Butylbenzene	20.95	91	6100159	49.81 ug/L	99
73) 1,2-Dichlorobenzene	20.99	146	2644157	48.38 ug/L	94
74) 1,2,4-Trimethylbenzene	19.62	105	4980506	47.62 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010437.D Vial: 6
Acq On : 10 Sep 1999 4:47 pm Operator: ClaudiaP
Sample : IC285-50,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:41 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

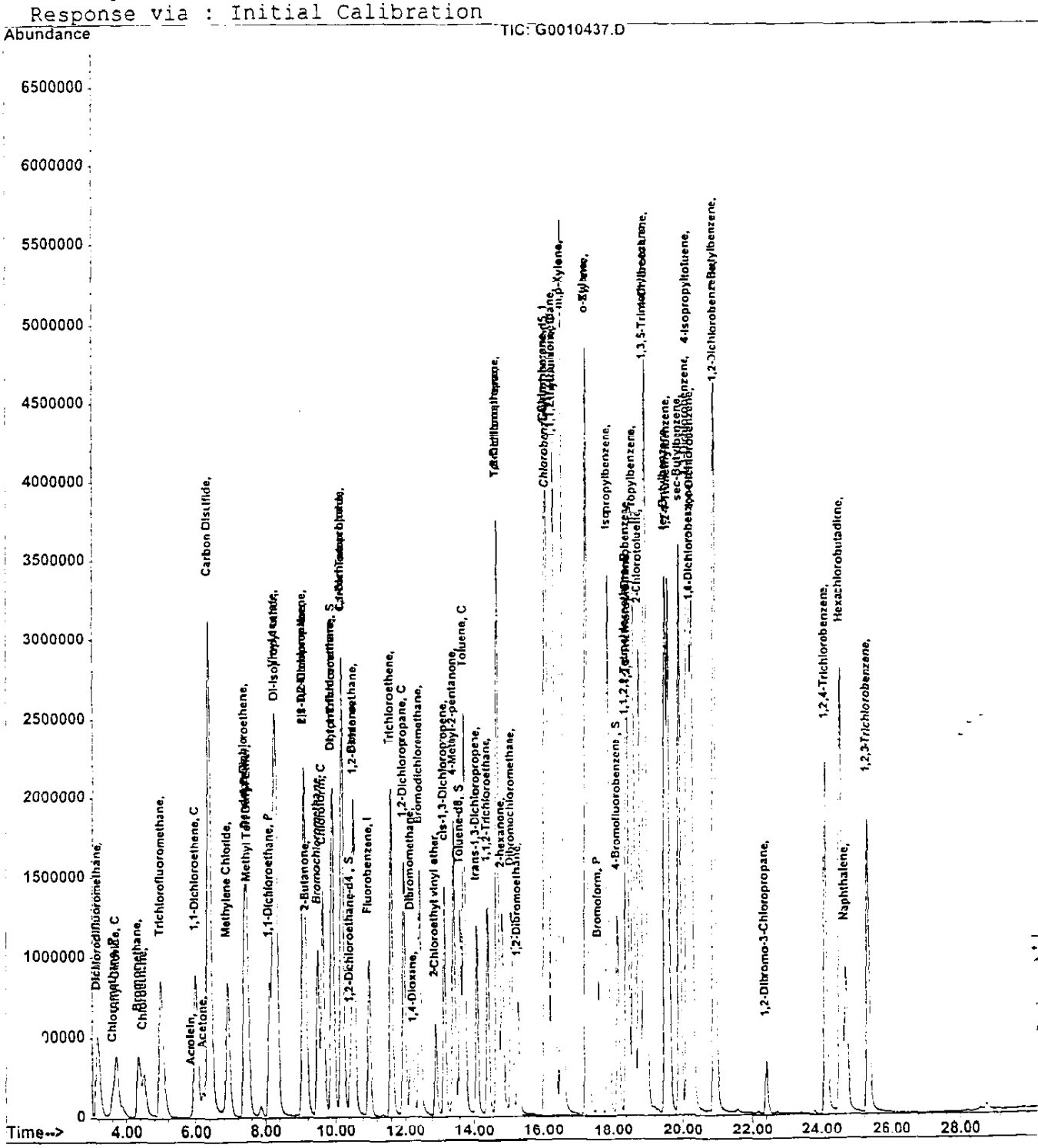
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) 1,2-Dibromo-3-Chloropropan	22.42	75	234505	48.27 ug/L #	87
76) 1,2,4-Trichlorobenzene	24.16	180	2209834	51.46 ug/L	94
77) Hexachlorobutadiene	24.56	225	1468856	52.80 ug/L	87
78) Naphthalene	24.71	128	2370989	51.86 ug/L	99
79) 1,2,3-Trichlorobenzene	25.33	180	1920717	53.56 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010437.D Vial: 6
Acq On : 10 Sep 1999 4:47 pm Operator: ClaudiaP
ample : IC285-50,10ml Inst : MSVOA1
.isc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:41 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



CONTINUING CALIBRATION SUMMARY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\092399\G0010594.D Vial: 2
Acq On : 24 Sep 1999 9:03 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	141	0.00
2		Dichlorodifluoromethane	0.502	0.417	16.9	116	0.00
3	P	Chloromethane	0.236	0.215	8.9	132	-0.01
4	C	Vinyl Chloride	0.265	0.262	1.1	135	-0.01
5		Bromomethane	0.245	0.242	1.2	140	-0.01
6		Chloroethane	0.140	0.136	2.9	145	-0.01
7		Trichlorofluoromethane	0.689	0.684	0.7	138	-0.02
8		Acrolein	0.003	0.002	33.3#	107	-0.03
9	C	1,1-Dichloroethene	0.537	0.504	6.1	134	-0.01
10		Acetone	0.031	0.025	19.4	115	-0.01
11		Carbon Disulfide	0.762	0.679	10.9	125	-0.01
12		Methylene Chloride	0.388	0.344	11.3	127	-0.02
1[illegible]		trans-1,2-Dichloroethene	0.539	0.502	6.9	131	-0.01
1[illegible]		Acrylonitrile	0.015	0.013	13.3	129	-0.02
15		Methyl Tert Butyl Ether	0.566	0.496	12.4	126	-0.01
16	P	1,1-Dichloroethane	0.603	0.531	11.9	125	-0.01
17		Vinyl acetate	0.483	0.432	10.6	0#	0.00
18		Di-isopropyl ether	1.053	0.944	10.4	131	-0.01
19		2,2-Dichloropropane	0.546	0.507	7.1	131	0.00
20		cis-1,2-Dichloroethene	0.285	0.262	8.1	131	0.00
21		2-Butanone	0.051	0.042	17.6	117	0.00
22		Bromochloromethane	0.181	0.169	6.6	129	0.00
23	C	Chloroform	0.661	0.581	12.1	125	0.00
24		1,1,1-Trichloroethane	0.597	0.535	10.4	126	0.00
25	S	Dibromofluoromethane	0.259	0.246	5.0	136	0.00
26		1,1-Dichloropropene	0.441	0.395	10.4	125	0.00
27		Carbon Tetrachloride	0.544	0.440	19.1	114	0.00
28	S	1,2-Dichloroethane-d4	0.143	0.136	4.9	130	0.00
29		Benzene	0.724	0.785	-8.4	170	0.00
30		1,2-Dichloroethane	0.366	0.325	11.2	134	0.00
31		Trichloroethene	0.418	0.379	9.3	124	0.00
32	C	1,2-Dichloropropane	0.339	0.304	10.3	126	-0.01
33		Dibromomethane	0.236	0.205	13.1	120	0.00
34		1,4-Dioxane	0.001	0.001	0.0	126	0.00
35		Bromodichloromethane	0.560	0.481	14.1	121	0.00
36		2-Chloroethyl vinyl ether	0.027	0.025	7.4	136	0.02
37		4-Methyl-2-pentanone	0.159	0.140	11.9	122	0.00
3[illegible]		cis-1,3-Dichloropropene	0.443	0.398	10.2	127	0.00
39	I	Chlorobenzene-d5	1.000	1.000	0.0	132	-0.01
40	S	Toluene-d8	0.653	0.677	-3.7	137	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\092399\G0010594.D Vial: 2
Acq On : 24 Sep 1999 9:03 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	C	Toluene	1.369	1.338	2.3	130	0.00
42		trans-1,3-Dichloropropene	0.458	0.433	5.5	127	0.00
43		1,1,2-Trichloroethane	0.271	0.250	7.7	120	0.00
44		Tetrachloroethene	0.677	0.661	2.4	128	-0.01
45		2-hexanone	0.142	0.124	12.7	114	0.00
46		1,3-Dichloropropane	0.502	0.462	8.0	122	0.00
47		Dibromochloromethane	0.476	0.439	7.8	119	0.00
48		1,2-Dibromoethane	0.393	0.358	8.9	121	0.00
49		1-Chlorohexane	0.639	0.674	-5.5	141	0.00
50	P	Chlorobenzene	0.998	0.962	3.6	129	-0.01
51		1,1,1,2-Tetrachloroethane	0.487	0.466	4.3	128	0.00
52	C	Ethylbenzene	1.696	1.699	-0.2	134	0.00
[illegible]		m,p-Xylene	1.387	1.347	2.9	130	0.00
[illegible]		o-Xylene	1.365	1.333	2.3	130	0.00
55		Styrene	0.851	0.879	-3.3	131	0.00
56	P	Bromoform	0.288	0.265	8.0	121	-0.01
57	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	133	0.02
58		Isopropylbenzene	2.895	2.799	3.3	132	0.00
59	S	4-Bromofluorobenzene	0.540	0.527	2.4	133	0.00
60		Bromobenzene	0.788	0.739	6.2	127	0.00
61	P	1,1,2,2-Tetrachloroethane	0.606	0.540	10.9	124	0.00
62		1,2,3-Trichloropropane	0.155	0.141	9.0	118	0.00
63		n-Propylbenzene	3.578	3.276	8.4	124	0.00
64		2-Chlorotoluene	2.169	2.024	6.7	129	0.00
65		4-Chlorotoluene	2.458	2.246	8.6	125	0.00
66		1,3,5-Trimethylbenzene	2.422	2.172	10.3	122	0.00
67		sec-Butylbenzene	3.309	3.112	6.0	131	0.02
68		1,3-Dichlorobenzene	1.456	1.345	7.6	126	0.00
69		4-Isopropyltoluene	2.659	2.501	5.9	128	0.00
70		1,4-Dichlorobenzene	1.514	1.383	8.7	129	0.00
71		tert-Butylbenzene	1.953	1.820	6.8	127	0.00
72		n-Butylbenzene	2.811	2.674	4.9	132	0.00
73		1,2-Dichlorobenzene	1.266	1.150	9.2	126	0.00
74		1,2,4-Trimethylbenzene	2.389	2.165	9.4	124	0.00
75		1,2-Dibromo-3-Chloropropane	0.102	0.086	15.7	115	-0.02
76		1,2,4-Trichlorobenzene	0.970	0.934	3.7	125	-0.01
77		Hexachlorobutadiene	0.709	0.700	1.3	136	0.00
		Naphthalene	1.051	0.874	16.8	109	-0.01
79		1,2,3-Trichlorobenzene	0.834	0.772	7.4	121	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092499\G0010594.D Vial: 2
Acq On : 24 Sep 1999 9:03 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 10:09 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.00	96	3242351	25.00 ug/L	0.00
39) Chlorobenzene-d5	16.08	117	2282661	25.00 ug/L	-0.01
57) 1,4-Dichlorobenzene-d4	20.26	152	1443833	25.00 ug/L	0.02
System Monitoring Compounds					
25) Dibromofluoromethane	9.89	113	1594798	47.42	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 94.84%		
28) 1,2-Dichloroethane-d4	10.45	65	880738	47.61	0.00
Spiked Amount 50.000	Range 74 - 120		Recovery = 95.22%		
40) Toluene-d8	13.63	98	3088046	51.77	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.54%		
59) 4-Bromofluorobenzene	18.16	95	1522207	48.78	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 97.56%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.17	85	1082440	16.62 ug/L	99
3) Chloromethane	3.62	50	556453	18.20 ug/L	89
4) Vinyl Chloride	3.70	62	680448	19.78 ug/L	98
5) Bromomethane	4.34	94	626769	19.74 ug/L	98
6) Chloroethane	4.50	64	354000	19.54 ug/L	91
7) Trichlorofluoromethane	5.03	101	1773789	19.85 ug/L	96
8) Acrolein	5.87	56	29816m	77.33 ug/L	
9) 1,1-Dichloroethene	6.02	61	1307807	18.80 ug/L	95
10) Acetone	6.20	43	328906	82.18 ug/L	89
11) Carbon Disulfide	6.41	76	8811566	89.16 ug/L	96
12) Methylene Chloride	6.91	49	891068	17.70 ug/L	96
13) trans-1,2-Dichloroethene	7.41	61	1301175	18.62 ug/L	96
14) Acrylonitrile	7.35	53	168992	89.86 ug/L	93
15) Methyl Tert Butyl Ether	7.46	73	1285534	17.51 ug/L	96
16) 1,1-Dichloroethane	8.12	63	1376138	17.59 ug/L	98
17) Vinyl acetate	8.25	43	5598977	89.33 ug/L	98
18) Di-isopropyl ether	8.30	45	2449119	17.94 ug/L #	78
19) 2,2-Dichloropropane	9.10	77	1314440	18.56 ug/L	100
20) cis-1,2-Dichloroethene	9.11	96	679978	18.40 ug/L	95
21) 2-Butanone	9.15	43	539023	81.58 ug/L	100
22) Bromochloromethane	9.49	128	439441	18.68 ug/L	99
23) Chloroform	9.64	83	1505760	17.57 ug/L	98
24) 1,1,1-Trichloroethane	9.93	97	1388639	17.94 ug/L	96
26) 1,1-Dichloropropene	10.20	75	1023614	17.91 ug/L	97
27) Carbon Tetrachloride	10.21	117	1141294	16.18 ug/L	97
29) Benzene	10.53	78	2036149	21.68 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092499\G0010594.D Vial: 2
Acq On : 24 Sep 1999 9:03 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 10:09 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,2-Dichloroethane	10.56	62	842282	17.74 ug/L	91
31) Trichloroethene	11.61	95	984194	18.16 ug/L	99
32) 1,2-Dichloropropane	11.96	63	787349	17.90 ug/L	96
33) Dibromomethane	12.18	93	532942	17.39 ug/L	94
34) 1,4-Dioxane	12.26	88	58363	357.59 ug/L	96
35) Bromodichloromethane	12.44	83	1247016	17.18 ug/L	96
36) 2-Chloroethyl vinyl ether	12.93	63	326226	88.72 ug/L	93
37) 4-Methyl-2-pentanone	13.44	43	1821703	88.24 ug/L	97
38) cis-1,3-Dichloropropene	13.18	75	1033208	17.98 ug/L	98
41) Toluene	13.74	91	2442546	19.54 ug/L	91
42) trans-1,3-Dichloropropene	14.09	75	791098	18.91 ug/L	96
43) 1,1,2-Trichloroethane	14.41	83	455712	18.40 ug/L	96
44) Tetrachloroethene	14.67	166	1207741	19.54 ug/L	97
45) 2-hexanone	14.82	43	1136675	87.86 ug/L	94
46) 1,3-Dichloropropane	14.68	76	842820	18.38 ug/L	96
47) Dibromochloromethane	15.09	129	801936	18.44 ug/L	98
48) 1,2-Dibromoethane	15.30	107	654020	18.24 ug/L	99
49) 1-Chlorohexane	16.07	91	1231328	21.09 ug/L	96
50) Chlorobenzene	16.13	112	1757019	19.29 ug/L	99
51) 1,1,1,2-Tetrachloroethane	16.28	131	851468	19.14 ug/L	95
52) Ethylbenzene	16.32	91	3102373	20.03 ug/L	94
53) m,p-Xylene	16.53	91	4919936	38.84 ug/L	96
54) o-Xylene	17.23	91	2434864	19.54 ug/L	99
55) Styrene	17.25	104	1605646	20.68 ug/L	94
56) Bromoform	17.59	173	484102	18.43 ug/L	96
58) Isopropylbenzene	17.89	105	3232752	19.34 ug/L	99
60) Bromobenzene	18.44	156	853048	18.75 ug/L	94
61) 1,1,2,2-Tetrachloroethane	18.40	83	623413	17.80 ug/L	94
62) 1,2,3-Trichloropropane	18.48	110	163208	18.19 ug/L #	84
63) n-Propylbenzene	18.62	91	3784524	18.31 ug/L	97
64) 2-Chlorotoluene	18.77	91	2337975	18.66 ug/L	98
65) 4-Chlorotoluene	18.97	91	2594129	18.28 ug/L	97
66) 1,3,5-Trimethylbenzene	18.93	105	2509173	17.94 ug/L	97
67) sec-Butylbenzene	19.94	105	3594928	18.81 ug/L	94
68) 1,3-Dichlorobenzene	20.14	146	1553778	18.48 ug/L	98
69) 4-Isopropyltoluene	20.19	119	2889182	18.81 ug/L	98
70) 1,4-Dichlorobenzene	20.30	146	1596975	18.27 ug/L	97
71) tert-Butylbenzene	19.53	91	2102004	18.64 ug/L	98
72) n-Butylbenzene	20.95	91	3089121	19.03 ug/L	94
73) 1,2-Dichlorobenzene	20.98	146	1328435	18.17 ug/L	93
74) 1,2,4-Trimethylbenzene	19.62	105	2501155	18.13 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092499\G0010594.D Vial: 2
Acq On : 24 Sep 1999 9:03 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 10:09 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

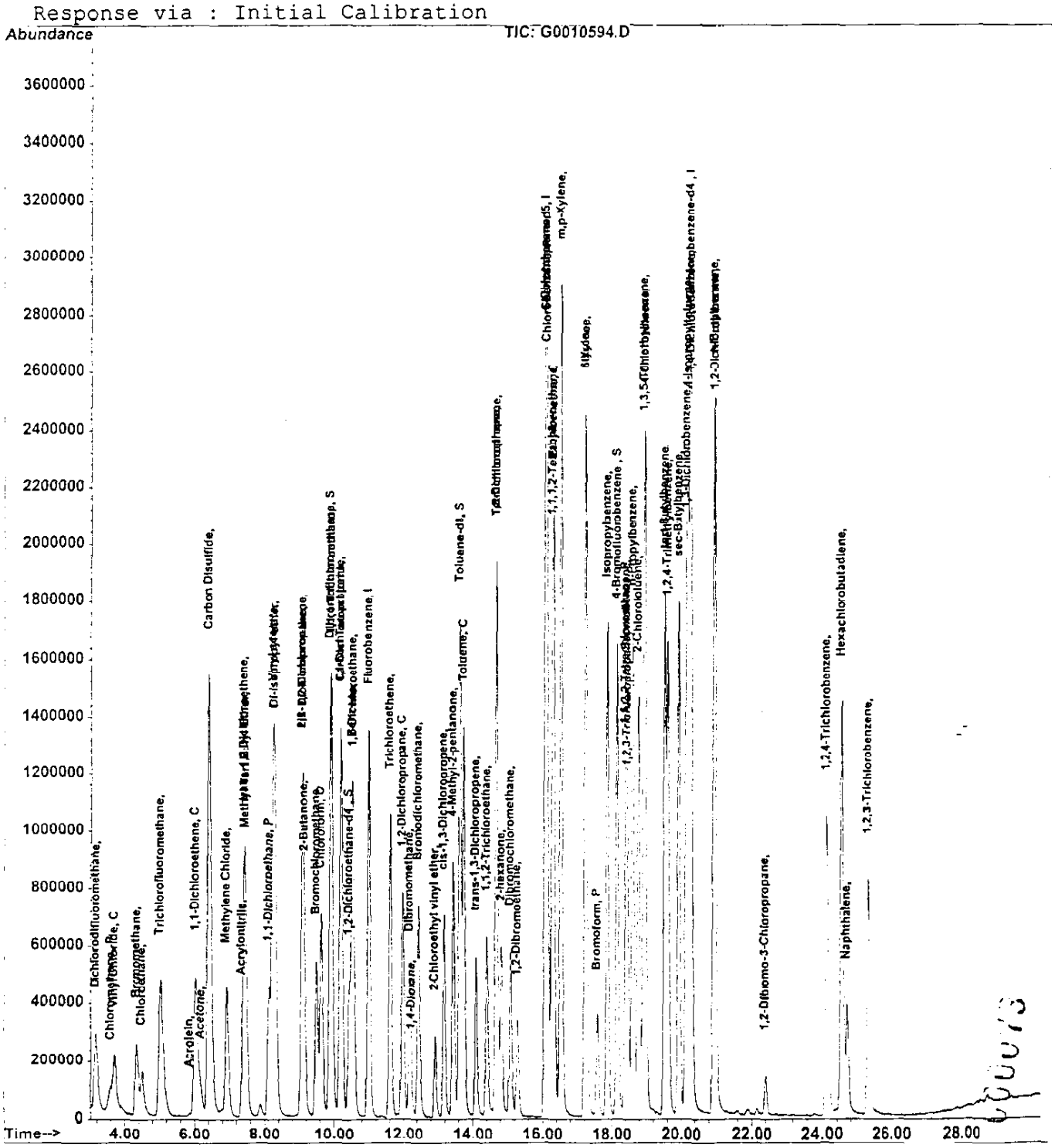
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) 1,2-Dibromo-3-Chloropropan	22.40	75	99359	16.86 ug/L	91
76) 1,2,4-Trichlorobenzene	24.14	180	1078735	19.26 ug/L	94
77) Hexachlorobutadiene	24.55	225	809011	19.75 ug/L	99
78) Naphthalene	24.70	128	1010015	16.64 ug/L	99
79) 1,2,3-Trichlorobenzene	25.31	180	891526	18.52 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092499\G0010594.D Vial: 2
Acq On : 24 Sep 1999 9:03 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 10:09 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



INTERNAL STANDARD/ RT SUMMARY

Volatile Internal Standard Area Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Check Std: VG289-CC285 **Injection Date:** 09/24/99
Lab File ID: G0010594.D **Injection Time:** 09:03
Instrument ID: GCMSG

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	3242351	11.00	2282661	16.08	1443833	20.26
Upper Limit [a]	6484702	11.50	4565322	16.58	2887666	20.76
Lower Limit [b]	1621176	10.50	1141331	15.58	721917	19.76

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VG289-MB	3273132	10.98	2365917	16.08	1430584	20.25
F4929-1	3274546	10.99	2380385	16.09	1437580	20.26

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of internal standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of internal standard area; Retention time -0.5 minutes.

GC/MS QA-QC Check Report

'une File : C:\HPCHEM\1\DATA\092499\G0010593.D
'une Time : 24 Sep 1999 8:48 am

'a. Calibration File : C:\HPCHEM\1\DATA\092299\G0010564.D

						2966770	2114790	1360320
File	Sample	Surrogate Recovery %				Internal Standard Responses		
G0010594.D	CC285-20	95	95	104	98	3242351	2282661	1443833
G0010595.D	MB	94	92	100	101	3273132	2365917	1430584
G0010596.D	F4929-1,	93	100	100	101	3274546	2380385	1437580

t - fails 12hr time check * - fails criteria

Created: Mon Sep 27 07:51:04 1999 MSVOA1

SEQUENCE LOG SUMMARY

Sequence Name: C:\HPCHEM\1\SEQUENCE\092499.S
Comment:
Operator: ClaudiaP
Data Path: C:\HPCHEM\1\DATA\092099\
Pre-Seq Cmd:
Post-Seq Cmd:

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	BFB	100	G0010593	BFB	BFB tune
2	DailyCal	2	G0010594	8260LL	CC285-20
3	Blank	3	G0010595	8260LL	MB
4	Sample	4	G0010596	8260LL	F4929-1,10ml

000070

F

GC/MS Analysis Log

Date: 9-24-99 Analyst's Signature: Claudia J Parise

Analysis Method: 624/8260 Column: DB624 Detector: HP5970MSD

Method File: 8260LL Instrument: G Calibration Date: 9-10-99

Data File	Sample ID	Sample Amount	Matrix	PH	ALS #	Dil.	Comments
G0010593	BFB	2 µl					V1178
594	CC-20	10 ml	W	7	2	1	20µl V1174, V1179 V1159
595	MB	↓	↓	7	3	1	10µl V1156
596	F4929-1	↓	↓	2	4	1	ND MS380, VG289

Note:

Matrix: Designate W for water, S for soil, O for Oil, A for air, SO for solid, L for non-aqueous liquid.

Sample amount: Initial sample weight (g) or volume (ml or cc or ul).

000077

00021

Sequence Name: C:\HPCHEM\1\SEQUENCE\091099.S
Comment:
Operator: ClaudiaP
Data Path: C:\HPCHEM\1\DATA\091099\
Pre-Seq Cmd:
Post-Seq Cmd:

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	BFB	100	G0010431	BFB	BFB tune
2	Calibration	1	G0010432	8260LL	IC285-1,10ml
3	Calibration	2	G0010433	8260LL	IC285-5,10ml
4	Calibration	3	G0010434	8260LL	IC285-10,10ml
5	Calibration	4	G0010435	8260LL	ICC285-20,10ml
6	Calibration	5	G0010436	8260LL	IC285-35,10ml
7	Calibration	6	G0010437	8260LL	IC285-50,10ml
8	Sample	7	G0010438	8260LL	ICV-20,10ml
9	Blank	8	G0010439	8260LL	MB,10ml

000076

F

GC/MS Analysis Log

Date: 9-10-99 Analyst's Signature: Claudia J Pasmor

Analysis Method: 624/8260 Column: DB624 Detector: HP5970MSD

Method File: 826044 Instrument: G Calibration Date: ~~8-18-99~~ 9-10-99

Data File	Sample ID	Sample Amount	Matrix	PH	ALS #	Dil.	Comments
G0010431	BFB	2 µl					V1128
10432	CC-20	10 ml	W	7	15		
10433	MB	10 ml			16		
10434	F4864-4	5 ml			1	2	
10435							
10436							
G0010431	BFB	2 µl					V1128
10432	IC285-1	10 ml	W	1	1	1	10 µl V1126 V1167, V1159 → 100 ml
10433	-5				2		5 µl
10434	-10				3		10 µl
10435	-20				4		20 µl
10436	-35				5		35 µl
10437	-50				6		50 µl
10438	ICV-20				7		20 µl V1149, V1169, V1151
10439	MB				8		10 µl V1146

000073

Note:

Matrix: Designate W for water, S for soil, O for Oil, A for air, SO for solid, L for non-aqueous liquid.

Sample amount: initial sample weight (g) or volume (ml or cc or ul).

SAMPLE RESULT SUMMARY

Report of Analysis

Client Sample ID:	GP.10.01		
Lab Sample ID:	F4929-1	**Date Sampled:**	09/22/99
Matrix:	AQ - Ground Water	**Date Received:**	09/23/99
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	UV000098.D	1	09/27/99	RAW	n/a	n/a	GUV1
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		75-125%
98-08-8	aaa-Trifluorotoluene	100%		75-125%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

000030

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000098.D\FID1B.CH Vial: 13
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000098.D\FID2A.CH
Acq On : 27 Sep 1999 11:52 am Operator: RickW
Sample : F4929-1,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 14:54 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	15.64	82547	21.504 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	107.52%
2) S BFB	24.74	226188	19.512 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	97.56%
4) S a,a,a-TFT #2	15.64	475191	19.988 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	99.94%
5) S BFB #2	24.74	343469	19.564 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	97.82%
Target Compounds			
6) H TPH-GRO (C6-C10)	0.00	0	N.D. ug/L

000081

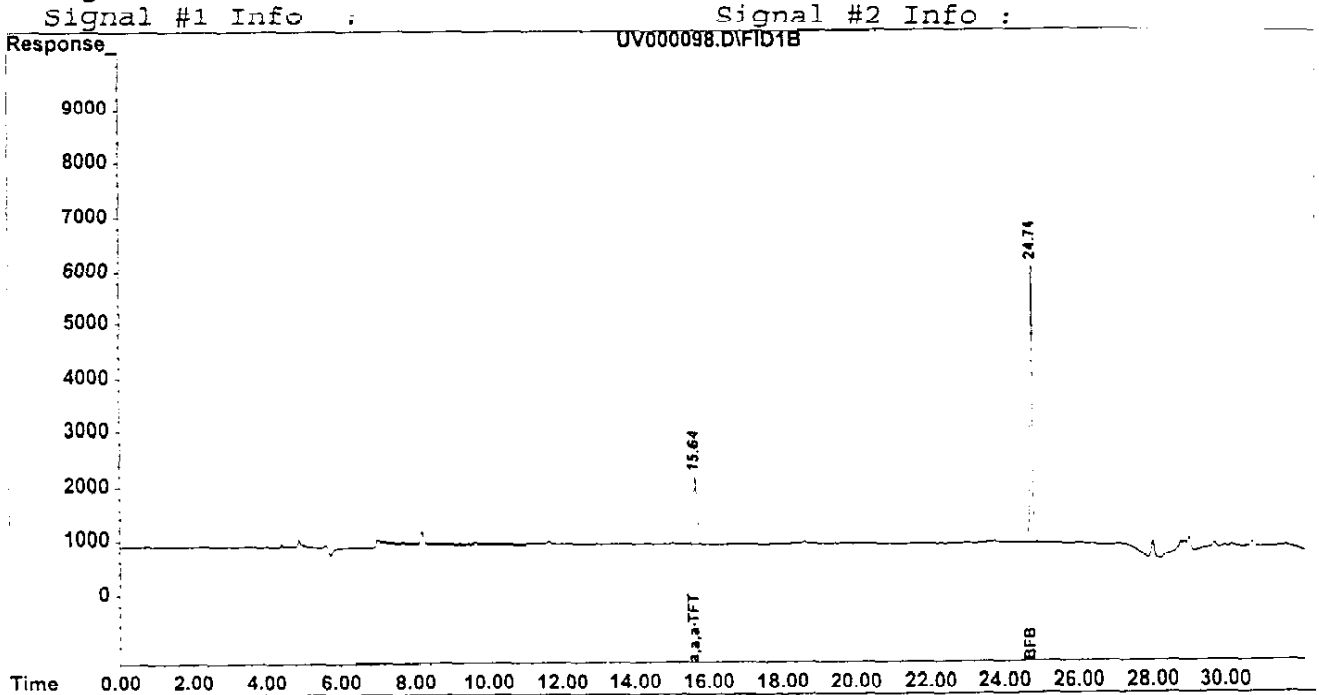
(f)=RT Delta > 1/2 Window (m)=manual int.

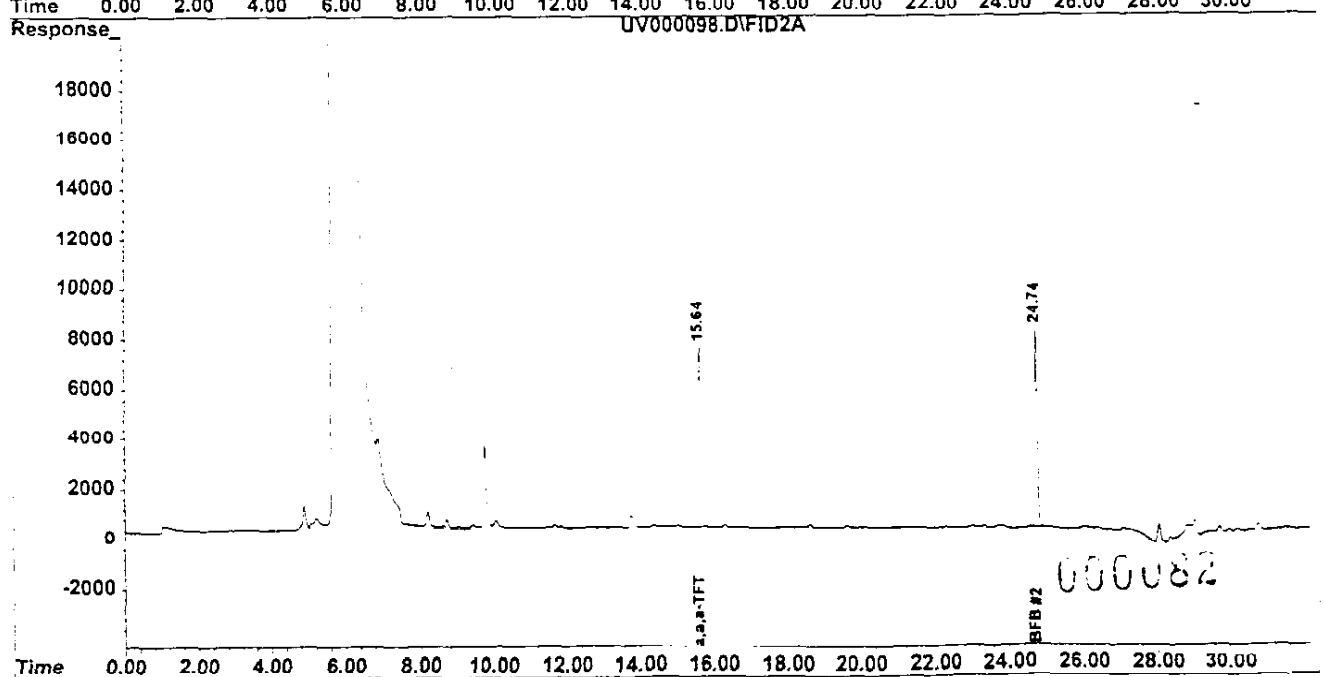
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000098.D\FID1B.CH Vial: 13
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000098.D\FID2A.CH
Acq On : 27 Sep 1999 11:52 am Operator: RickW
Sample : F4929-1,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 14:54 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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SURROGATE RECOVERIES SUMMARY

VGC.02

Volatile Surrogate Recovery Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Method: SW846 8015 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]
F4929-1	UV000098.D	98.0	100.0
F4900-2MS	UV000043.D	100.0	103.0
F4900-2MSD	UV000044.D	100.0	99.0
GUV1-BS	UV000045.D	101.0	97.0
GUV1-MB	UV000040.D	97.0	93.0
GUV1-MB	UV000059.D	93.0	91.0
GUV1-MB	UV000097.D	96.0	98.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	75-125%
S2 = aaa-Trifluorotoluene	75-125%

(a) Recovery from GC signal #2

MATRIX SPIKE/ MARTIX SPIKE DUPLICATE/ BLANK SPIKE SUMMARY

VGC.03

Blank Spike Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV1-BS	UV000045.D	1	09/17/99	RAW	n/a	n/a	GUV1

The QC reported here applies to the following samples: **Method:** SW846 8015

F4929-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.412	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	75-125%
98-08-8	aaa-Trifluorotoluene	97%	75-125%

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000045.D\FID1B.CH Vial: 8
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000045.D\FID2A.CH
Acq On : 17 Sep 1999 4:43 pm Operator: RickW
Sample : bs,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:17 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.47	15.47	76910	462590	20.036m	19.458
Spiked Amount	20.000	Range	75 - 125	Recovery	= 100.18%	97.29%
2) S BFB	24.56	24.56	216142	355322	18.645	20.239
Spiked Amount	20.000	Range	75 - 125	Recovery	= 93.23%	101.20%
Target Compounds						
H TPH-GRO	23.00	23.00	1492717	7785566	336.650	412.063

000085

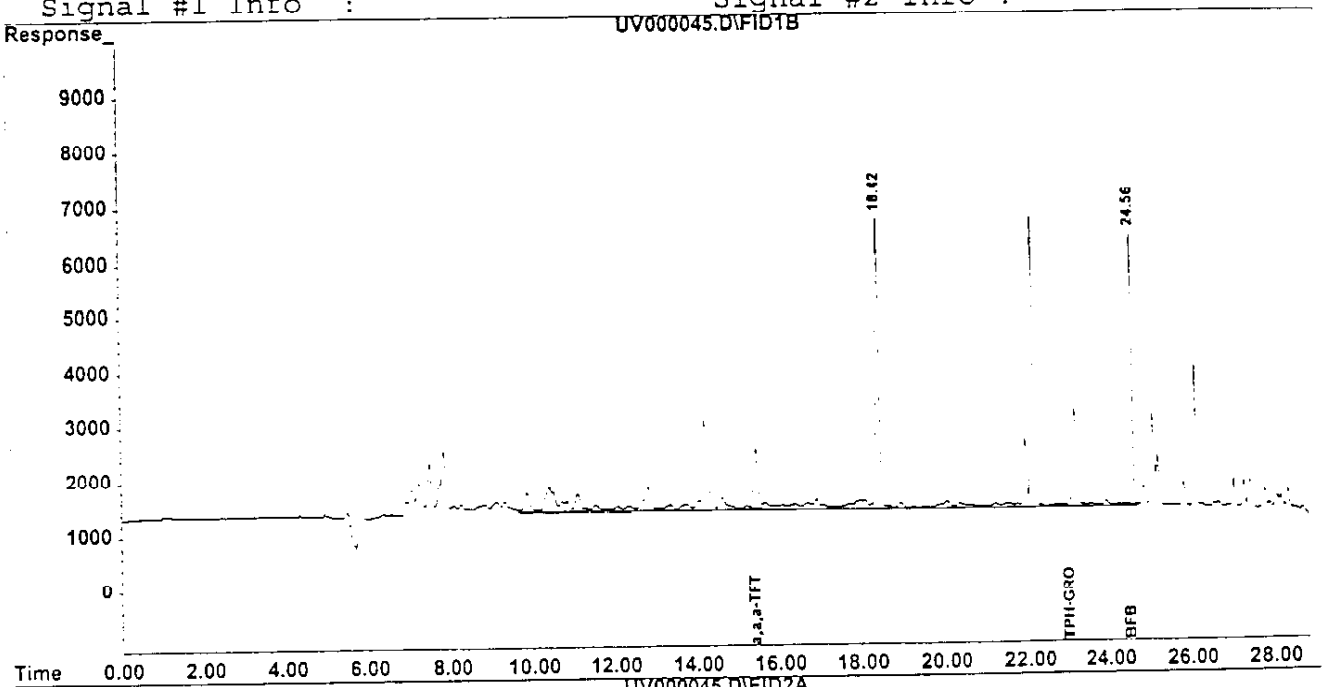
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

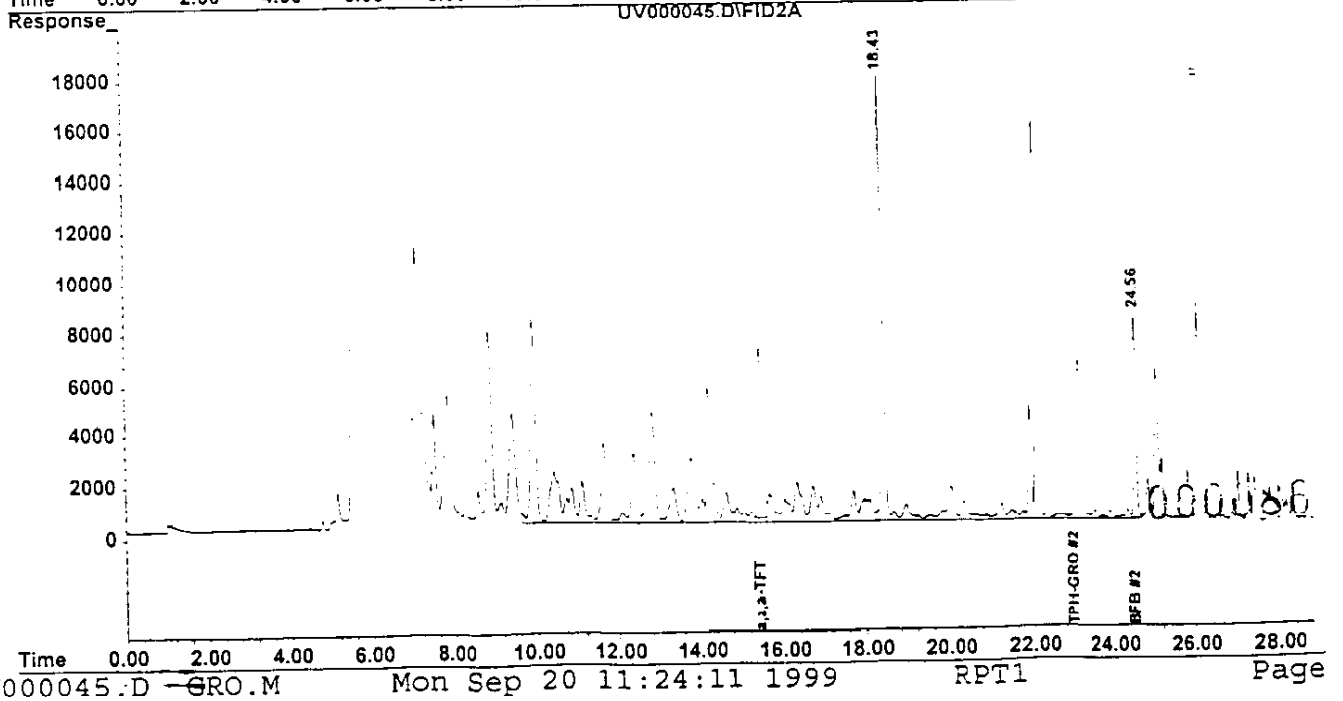
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000045.D\FID1B.CH Vial: 8
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000045.D\FID2A.CH
Acq On : 17 Sep 1999 4:43 pm Operator: RickW
Sample : bs,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:17 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000086

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F4900-2MS	UV000043.D	1	09/17/99	RAW	n/a	n/a	GUV1
F4900-2MSD	UV000044.D	1	09/17/99	RAW	n/a	n/a	GUV1
F4900-2	UV000042.D	1	09/17/99	RAW	n/a	n/a	GUV1

The QC reported here applies to the following samples: **Method:** SW846 8015

F4929-1

CAS No.	Compound	F4900-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		0.4	0.413	103	0.410	102	1	70-130/20

CAS No.	Surrogate Recoveries	MS	MSD	F4900-2	Limits
460-00-4	4-Bromofluorobenzene	100%	100%	97%	75-125%
98-08-8	aaa-Trifluorotoluene	103%	99%	96%	75-125%

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000043.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000043.D\FID2A.CH
Acq On : 17 Sep 1999 3:32 pm Operator: RickW
Sample : F4900-2ms,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 16:55 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 14:15:13 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.48	15.48	72593	491855	18.911	20.689
Spiked Amount	20.000	Range	75 - 125	Recovery	= 94.56%	103.45%
2) S BFB	24.57	24.57	215997	351857	18.633	20.041
Spiked Amount	20.000	Range	75 - 125	Recovery	= 93.16%	100.21%
Target Compounds						
H TPH-GRO	23.00	23.00	1446055	7804071	321.426	413.207 #

000083

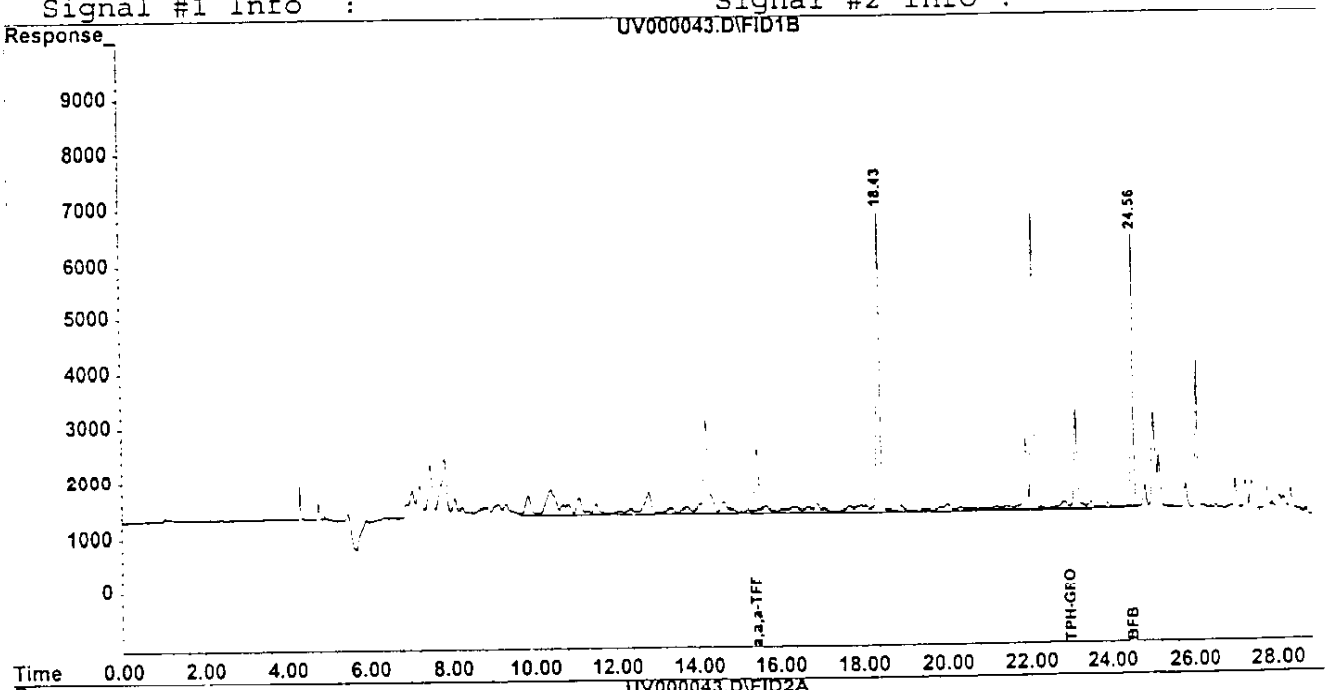
(f)=RT Delta-> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

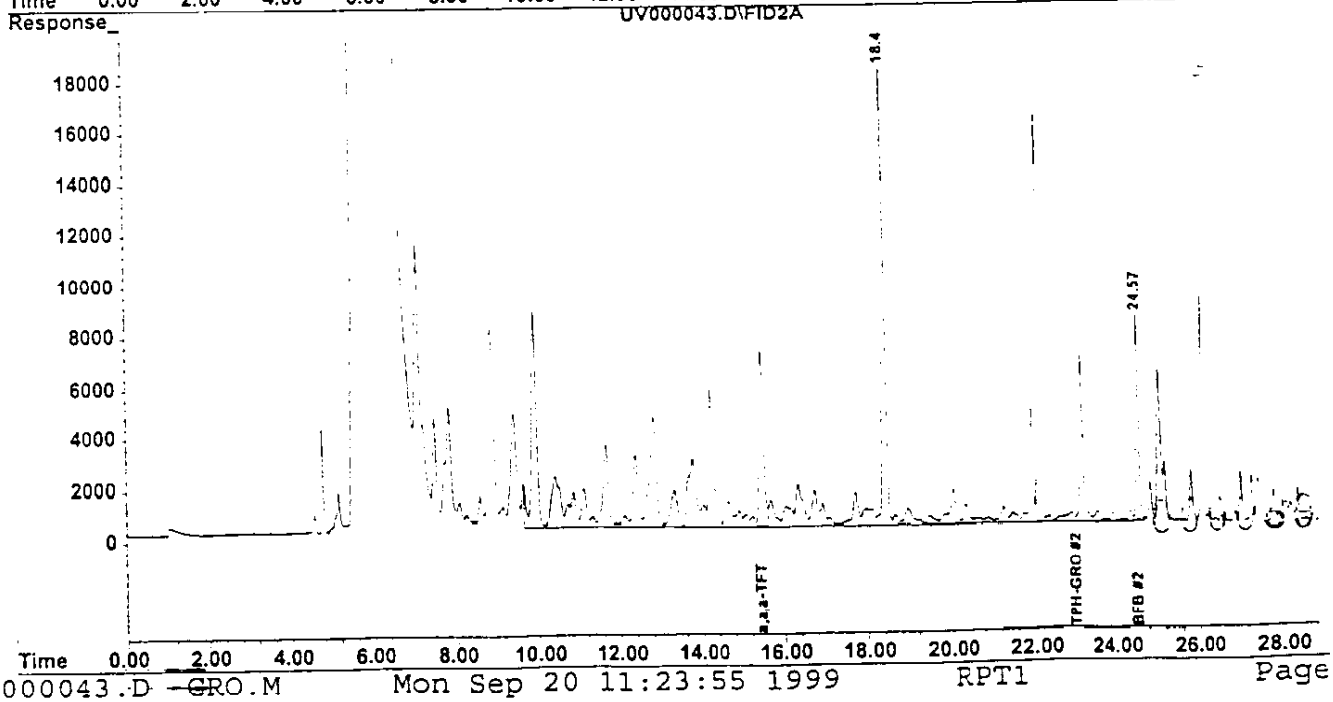
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000043.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000043.D\FID2A.CH
Acq On : 17 Sep 1999 3:32 pm Operator: RickW
Sample : F4900-2ms,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 16:55 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 14:15:13 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000044.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000044.D\FID2A.CH
Acq On : 17 Sep 1999 4:07 pm Operator: RickW
Sample : F4900-2msd,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:15 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.47	15.48	71314	470492	18.578	19.791
Spiked Amount	20.000	Range	75 - 125	Recovery	= 92.89%	98.96%
2) S BFB	24.56	24.56	212551	351682	18.335	20.031
Spiked Amount	20.000	Range	75 125	Recovery	= 91.68%	100.16%
Target Compounds						
H TPH-GRO	23.00	23.00	1480383	7754630	332.626	410.151

000090

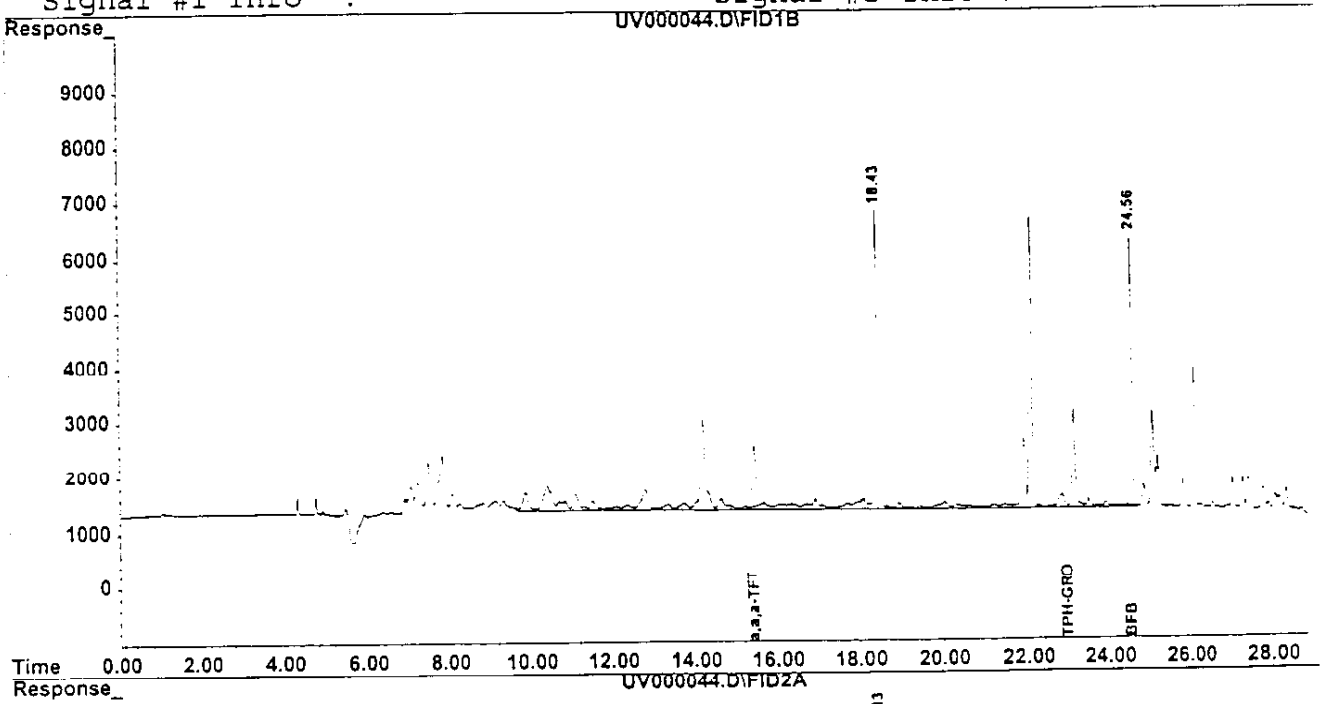
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

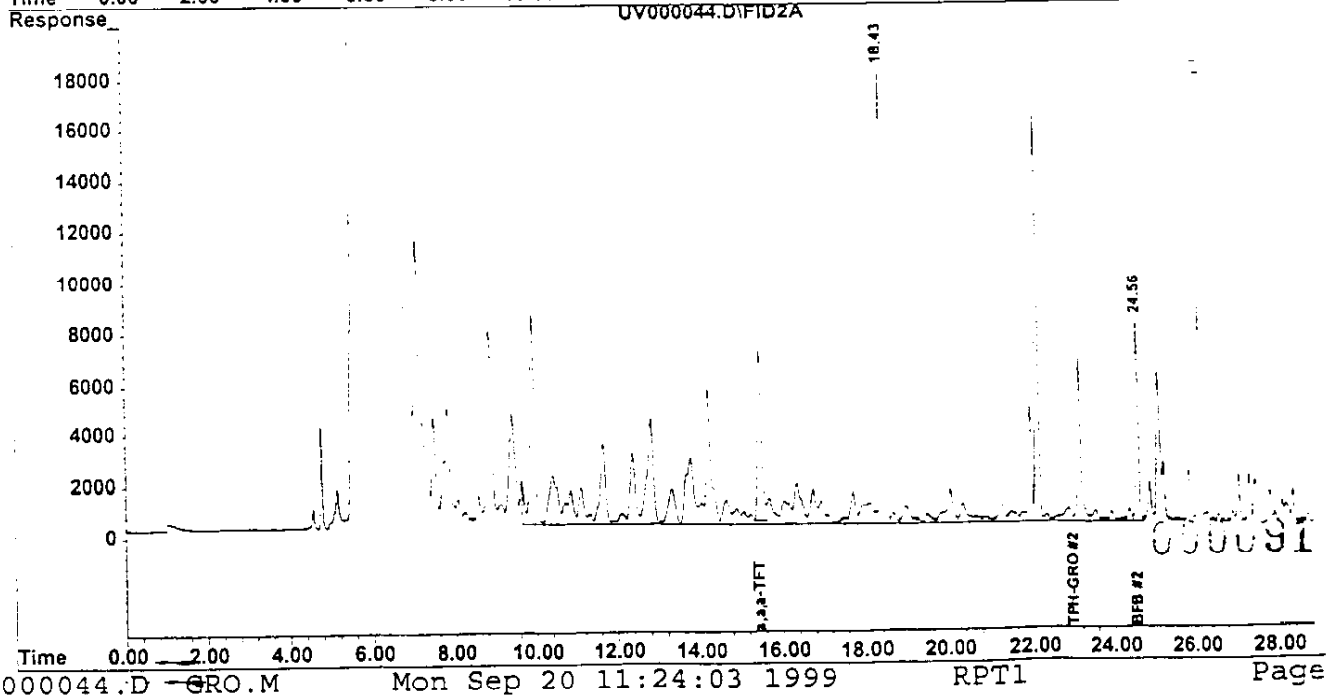
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000044.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000044.D\FID2A.CH
Acq On : 17 Sep 1999 4:07 pm Operator: RickW
Sample : F4900-2msd,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:15 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





METHOD BLANK SUMMARY

Method Blank Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV1-MB	UV000097.D	1	09/27/99	RAW	n/a	n/a	GUV1

The QC reported here applies to the following samples: **Method:** SW846 8015

F4929-1

CAS No.	Compound	Result	RDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	96%	75-125%
98-08-8	aaa-Trifluorotoluene	98%	75-125%

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000097.D\FID1B.CH Vial: 12
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000097.D\FID2A.CH
Acq On : 27 Sep 1999 11:13 am Operator: RickW
Sample : MB Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 12:43 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Mon Sep 27 11:09:01 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	15.61	81342	21.190 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	105.95%
2) S BFB	24.71	222912	19.229 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	96.15%
4) S a,a,a-TFT #2	15.61	465579	19.584 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	97.92%
5) S BFB #2	24.71	336722	19.179 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	95.90%
Target Compounds			
6) H TPH-GRO (C6-C10)	0.00	0	N.D. ug/L

000093

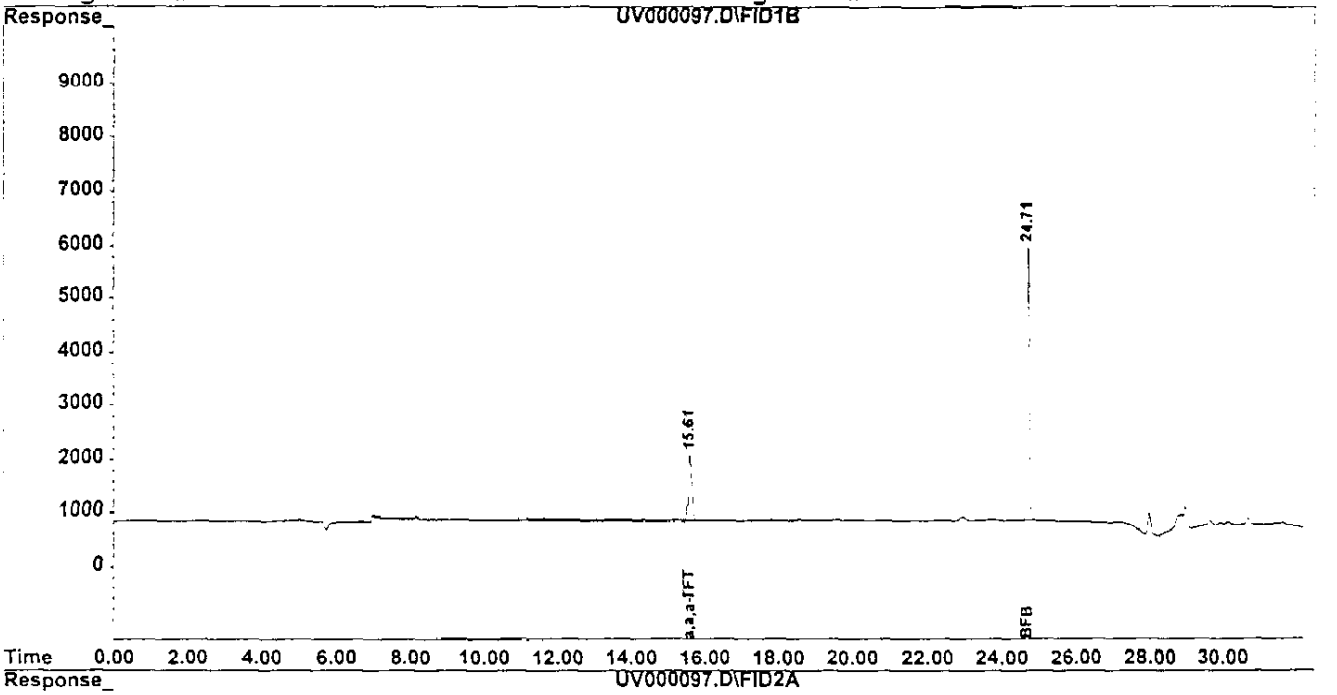
(f)=RT Delta> 1/2 Window (m)=manual int.

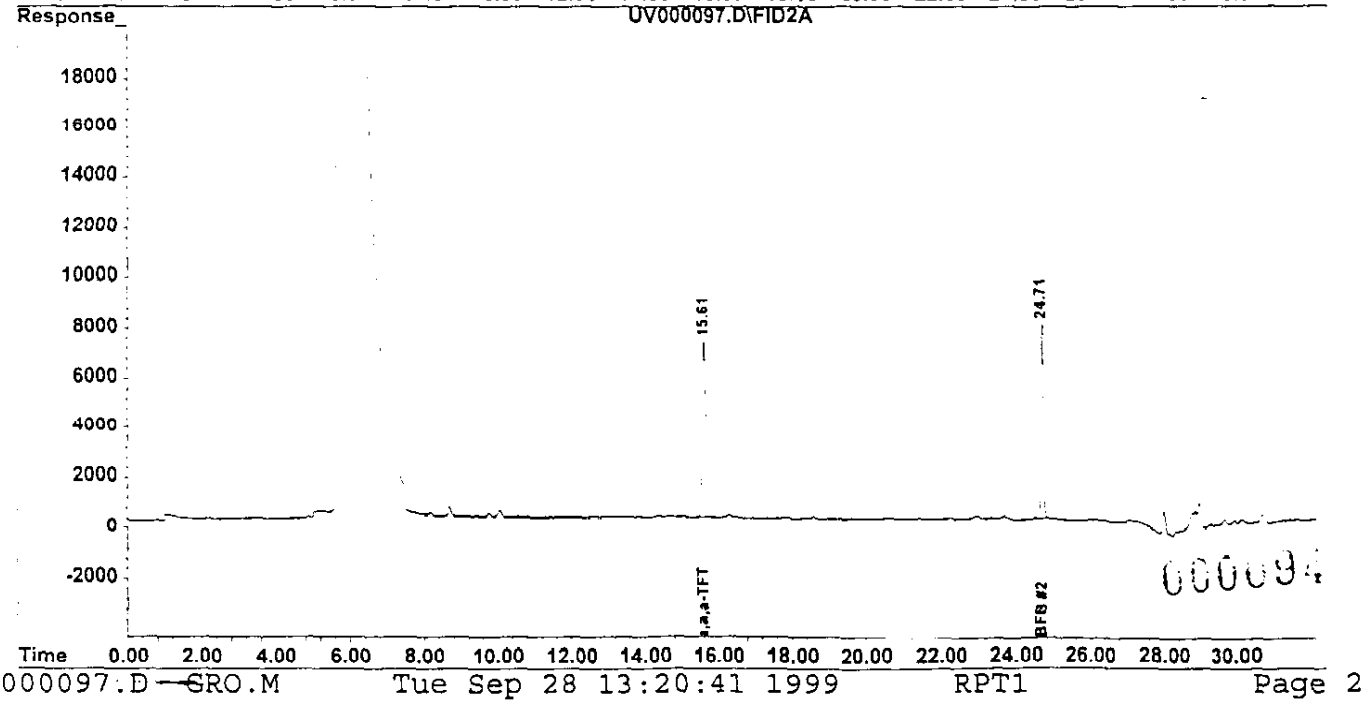
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000097.D\FID1B.CH Vial: 12
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000097.D\FID2A.CH
Acq On : 27 Sep 1999 11:13 am Operator: RickW
Sample : MB Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 12:43 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Mon Sep 27 11:09:01 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000094

INITIAL CALIBRATION SUMMARY

VGC.05

Response Factor Report VOA4

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
ast Update : Fri Sep 17 10:55:16 1999

%RSD > 15 3Y
QUAN
CURVE.
FAIL

Calibration Files
1 =UV000022.D 2 =UV000023.D 3 =UV000024.D
4 =UV000025.D 5 =UV000026.D 6 =UV000027.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	a,a,a-TFT	4.162	4.002	3.771	3.781	3.678	3.637	3.839	E3	5.28
2)	S	BFB	1.218	1.177	1.172	1.141	1.136	1.111	1.159	E4	3.28
3)	H	TPH-GRO	7.343	5.429	4.256	3.823	3.724	3.471	4.674	E3	31.64

Signal #2 Calibration Files
1 =UV000022.D 2 =UV000023.D 3 =UV000024.D
4 =UV000025.D 5 =UV000026.D 6 =UV000027.D

		Compound	1	2	3	4	5	6	Avg		%RSD
1)	S	a,a,a-TFT	2.363	2.303	2.328	2.385	2.578	2.307	2.377	E4	4.36
2)	S	BFB	1.777	1.773	1.807	1.791	1.701	1.685	1.756	E4	2.85
3)	H	TPH-GRO	2.605	2.160	1.918	1.792	1.835	1.683	1.999	E4	16.88

000085

(#) = Out of Range

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000021.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000021.D\FID2A.CH
Acq On : 16 Sep 1999 10:46 am Operator: RickW
Sample : C6-C10 alkanes Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 16 12:59 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 12:59:24 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
2) S BFB	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
Target Compounds						
H TPH-GRO	23.00	23.00	604416	15202053	N.D.	747.211

000096

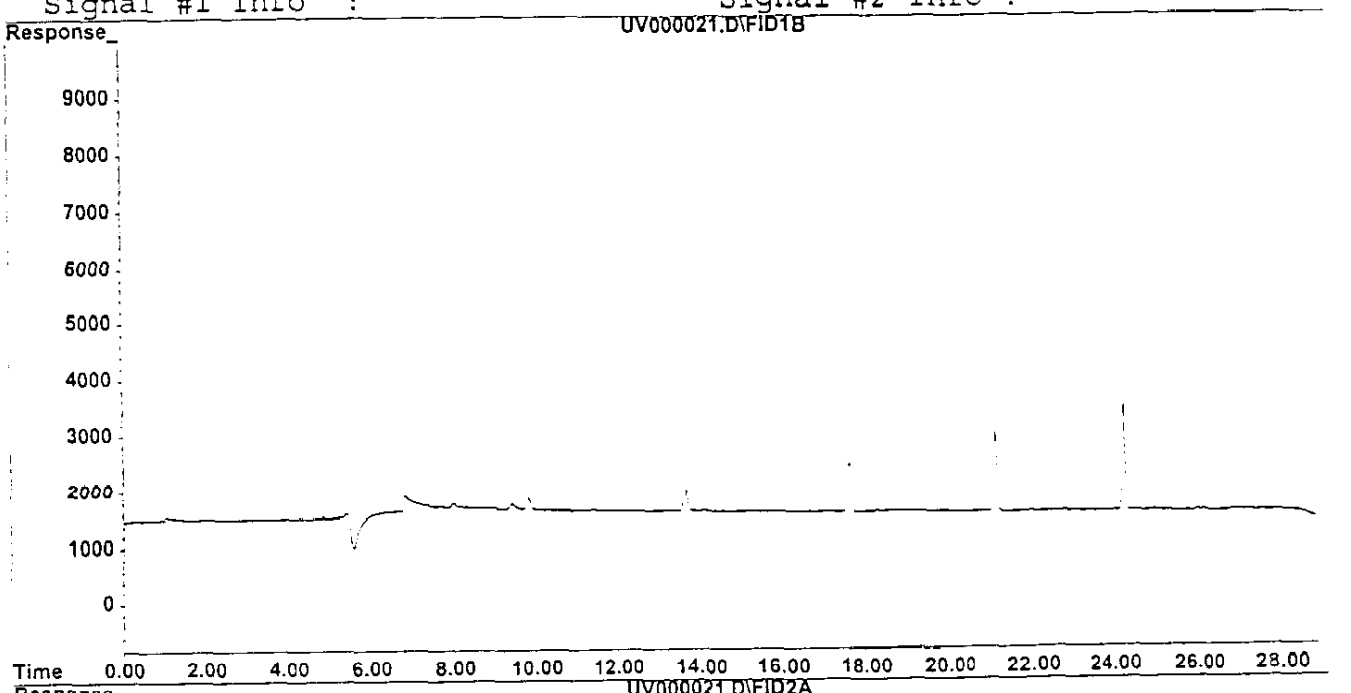
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

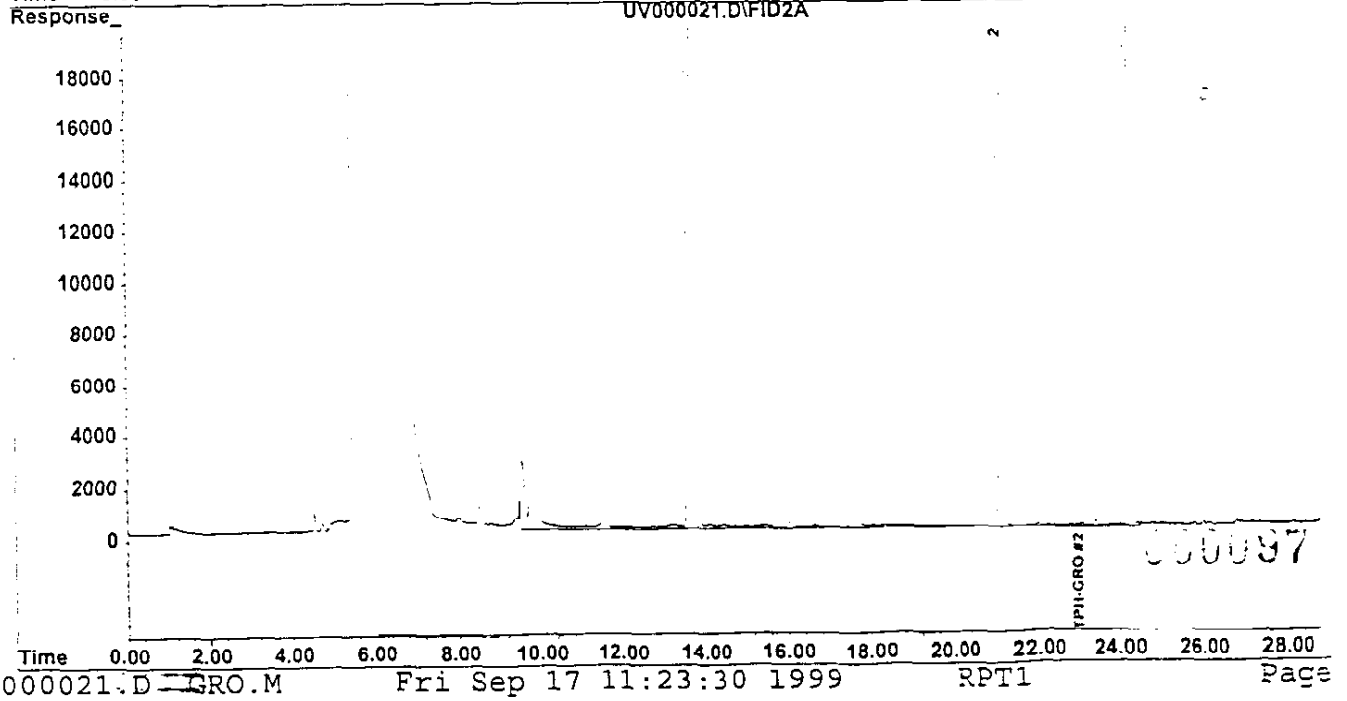
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000021.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000021.D\FID2A.CH
Acq On : 16 Sep 1999 10:46 am Operator: RickW
Sample : C6-C10 alkanes Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 16 12:59 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 12:59:24 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000097

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000022.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000022.D\FID2A.CH
Acq On : 16 Sep 1999 3:03 pm Operator: RickW
Sample : 100ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 16 16:02 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 16:02:24 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.41	15.41	83248	472635	18.662	18.168
Spiked Amount 20.000			Recovery	=	93.31%	90.84%
2) S BFB	24.51	24.51	243675	355307	18.022	17.414
Spiked Amount 20.000			Recovery	=	90.11%	87.07%
Target Compounds						
3 f TPH-GRO	23.00	23.00	734281	2605364	30.019	43.665 #

000098

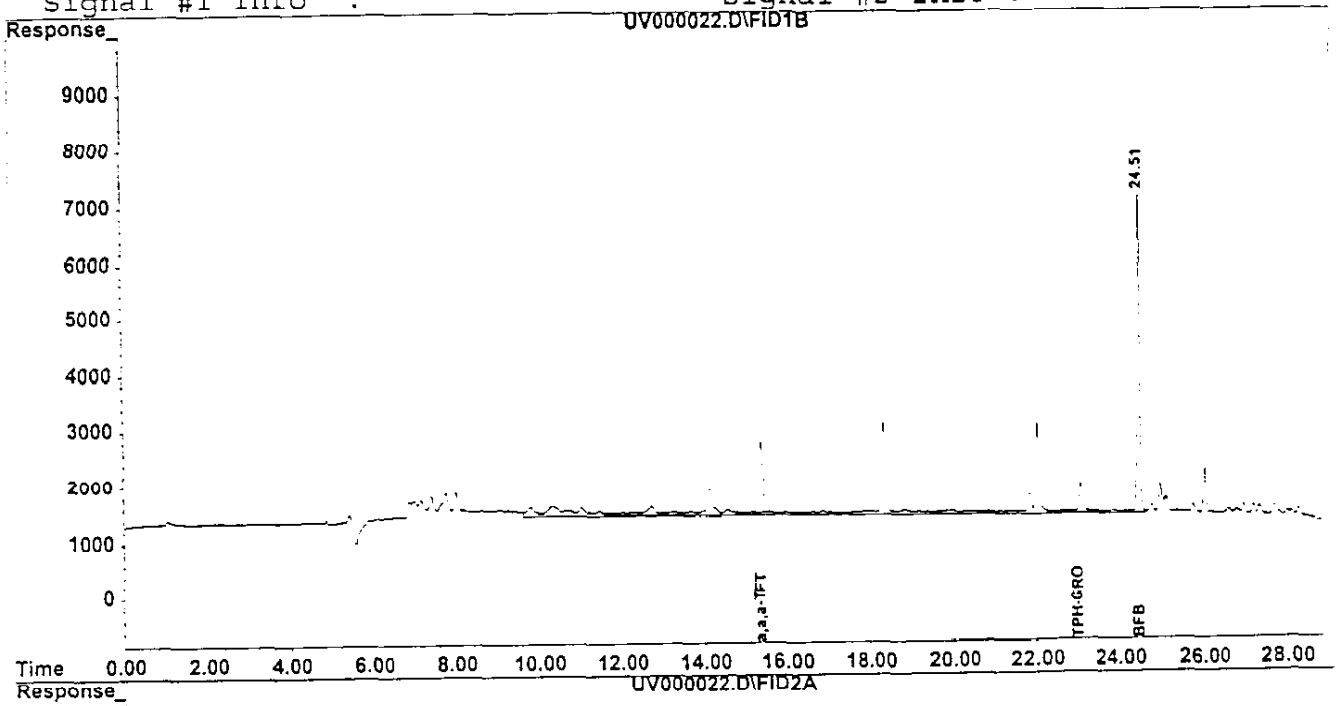
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

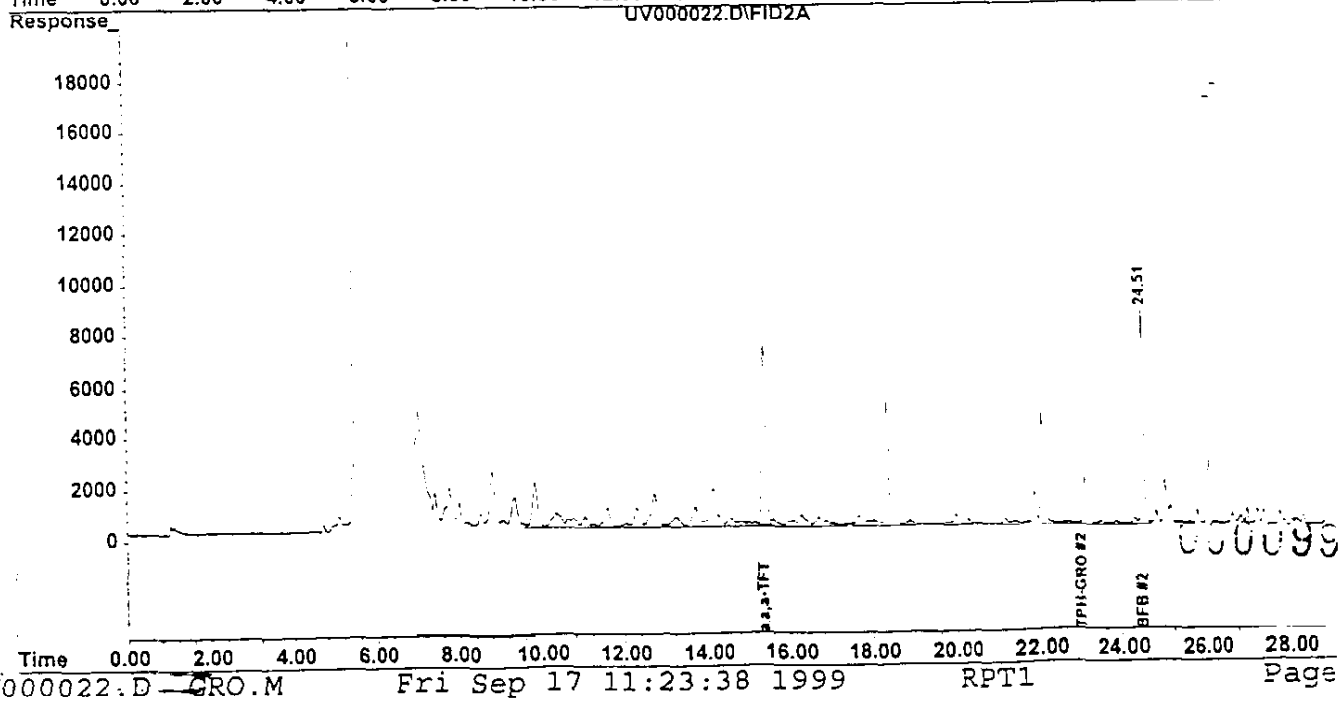
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000022.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000022.D\FID2A.CH
Acq On : 16 Sep 1999 3:03 pm Operator: RickW
Sample : 100ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 16 16:02 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 16:02:24 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000095

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000023.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000023.D\FID2A.CH
Acq On : 16 Sep 1999 3:39 pm Operator: RickW
Sample : 200ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 8:53 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 16:02:24 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.46	15.46	80037	460612	18.170	17.799
Spiked Amount 20.000			Recovery	=	90.85%	89.00%
2) S BFB	24.55	24.55	235472	354571	17.663	17.580
Spiked Amount 20.000			Recovery	=	88.32%	87.90%
Target Compounds						
3) T TPH-GRO	23.00	23.00	1085800	4319557	151.719	162.674

000100

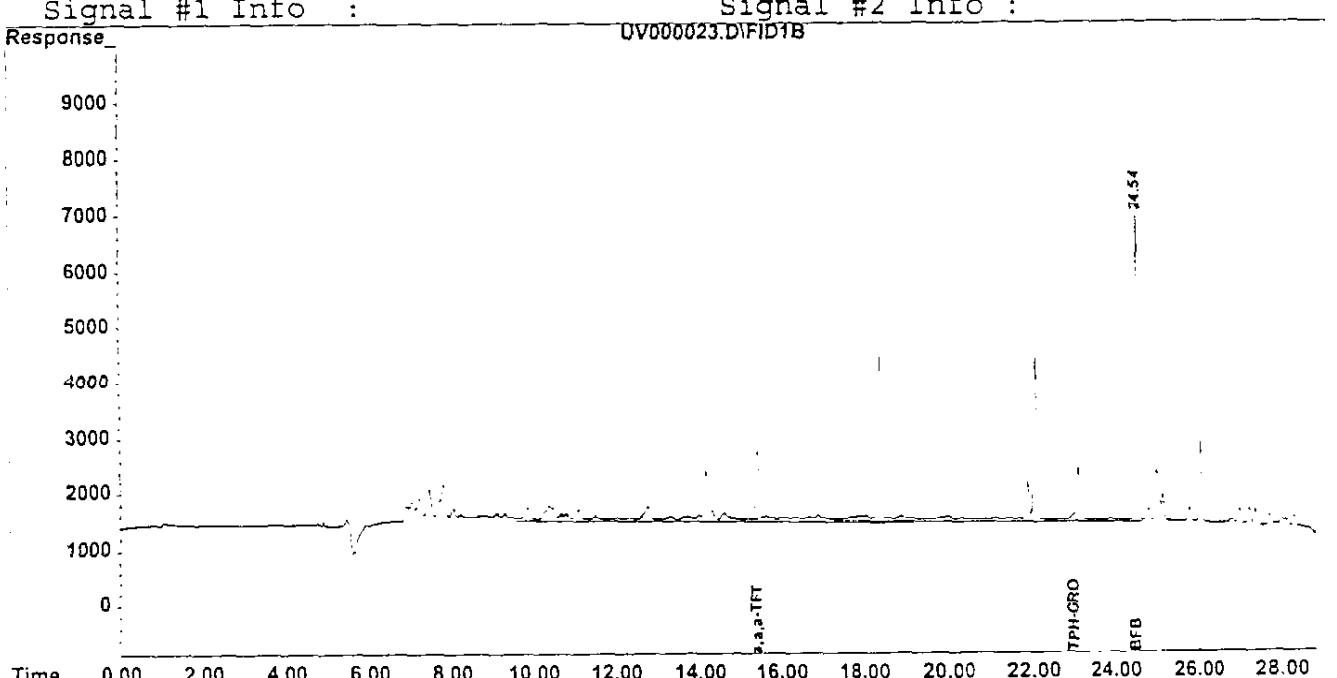
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

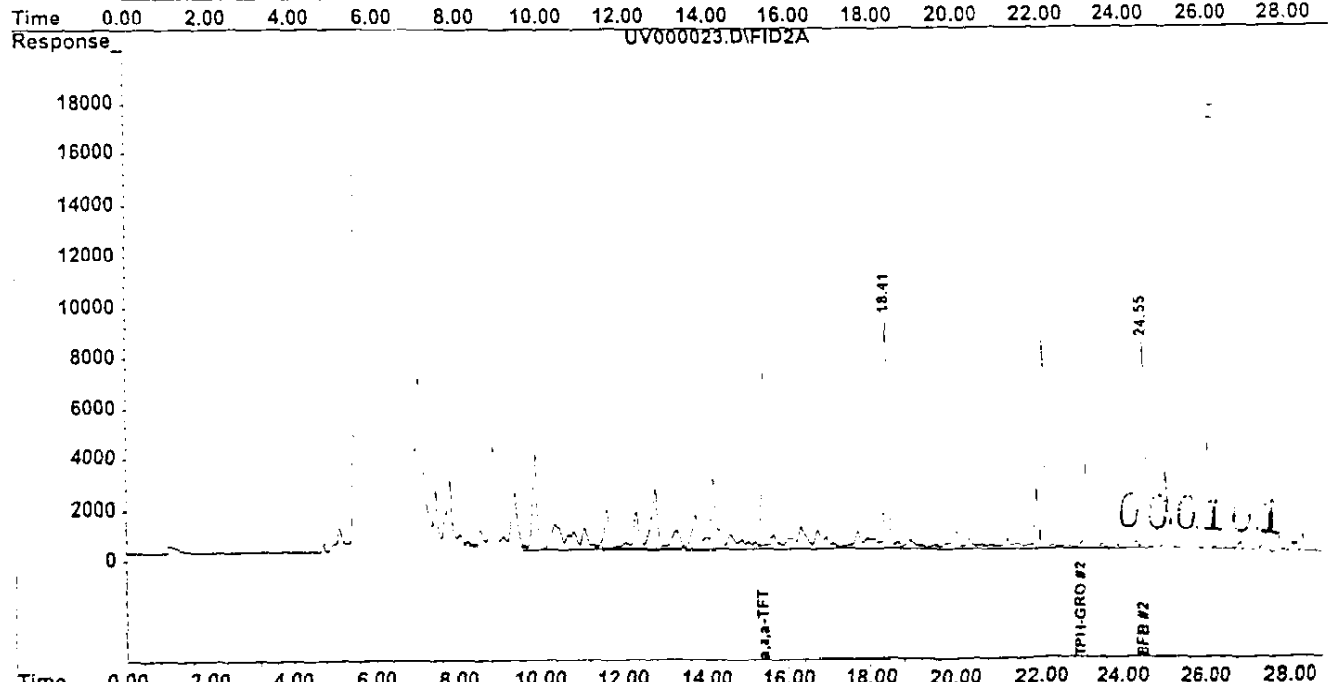
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000023.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000023.D\FID2A.CH
Acq On : 16 Sep 1999 3:39 pm Operator: RickW
Sample : 200ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 8:53 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 16:02:24 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000101

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000024.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000024.D\FID2A.CH
Acq On : 16 Sep 1999 4:15 pm Operator: RickW
Sample : 400ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:51 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 08:54:08 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.46	15.46	75426	465554	17.463	18.313
Spiked Amount 20.000			Recovery	=	87.32%	91.57%
2) S BFB	24.55	24.55	234449	361422	18.063	18.300
Spiked Amount 20.000			Recovery	=	90.31%	91.50%
Target Compounds						
3 I TPH-GRO	23.00	23.00	1702538	7673851	313.228	355.597

000102

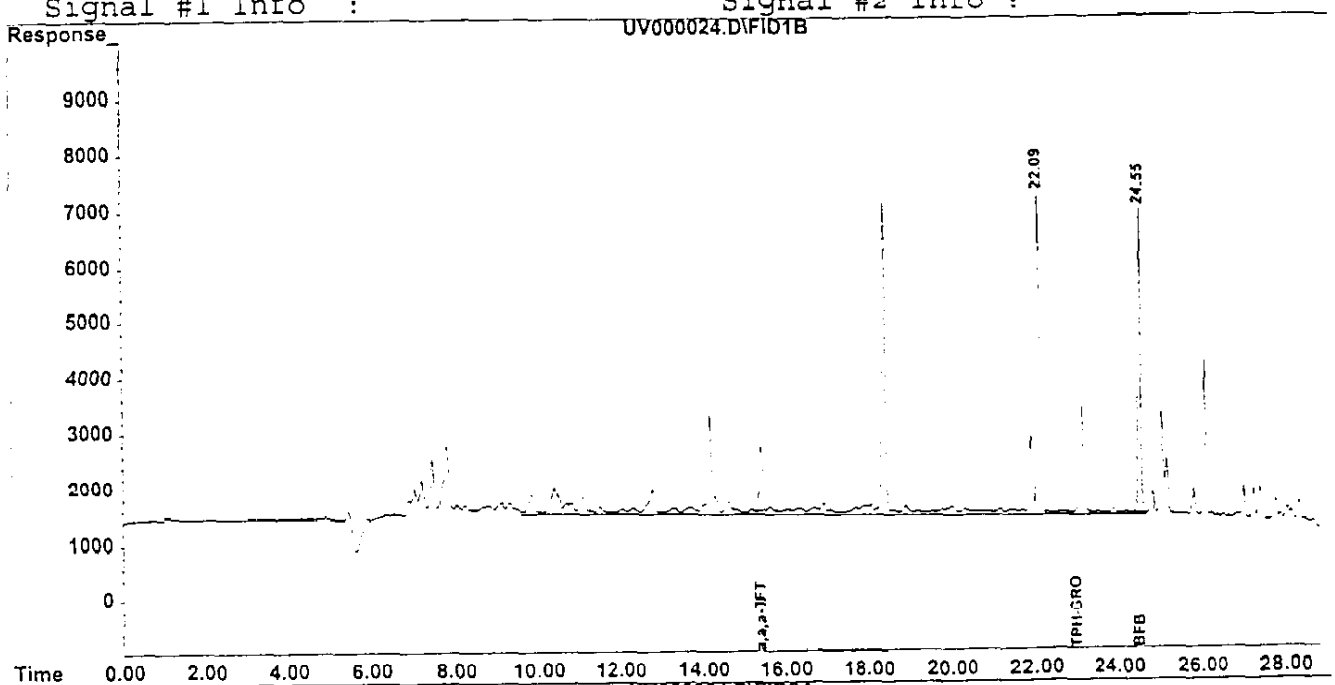
(f)=RT Delta-> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

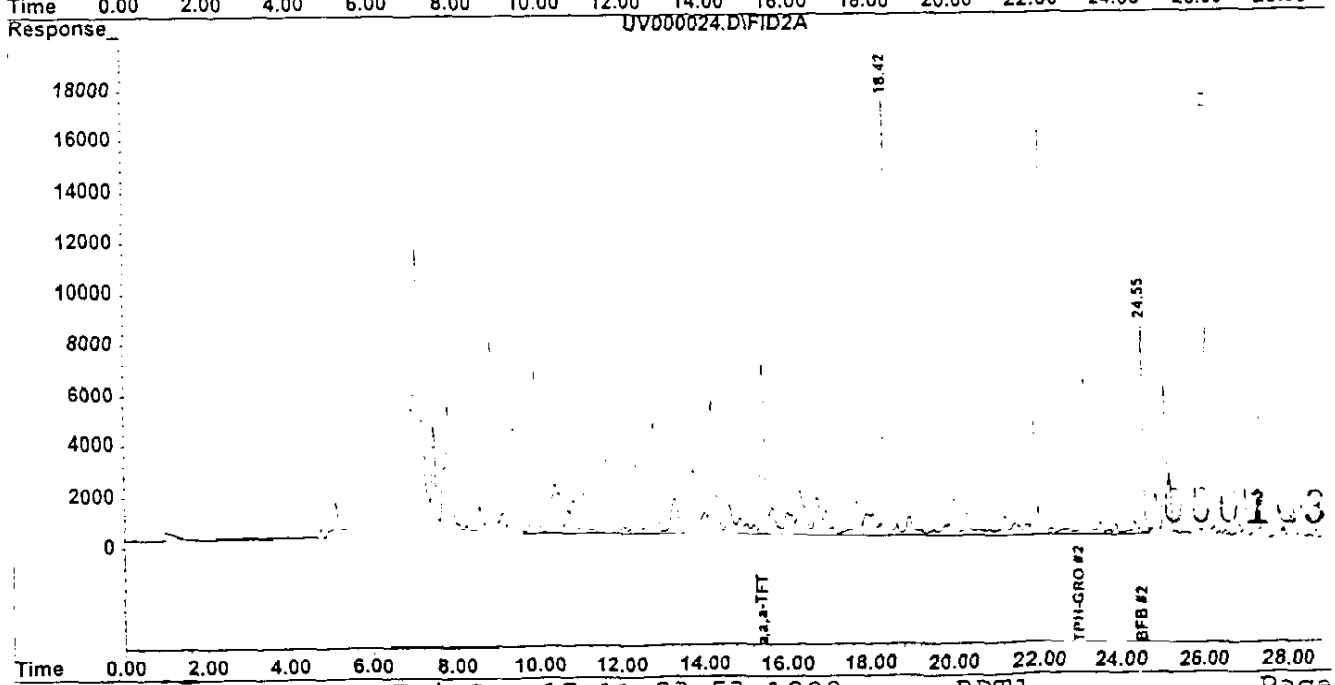
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000024.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000024.D\FID2A.CH
Acq On : 16 Sep 1999 4:15 pm Operator: RickW
Sample : 400ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:51 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 08:54:08 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000025.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000025.D\FID2A.CH
Acq On : 16 Sep 1999 4:50 pm Operator: RickW
Sample : 600ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:52 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 08:54:08 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.45	15.45	75623	476994	18.021	19.258
Spiked Amount 20.000			Recovery	=	90.11%	96.29%
2) S BFB	24.54	24.54	228105	358199	17.995	18.635
Spiked Amount 20.000			Recovery	=	89.98%	93.18%
Target Compounds						
3 H TPH-GRO	23.00	23.00	2294007	10752693	457.630	528.943

000104

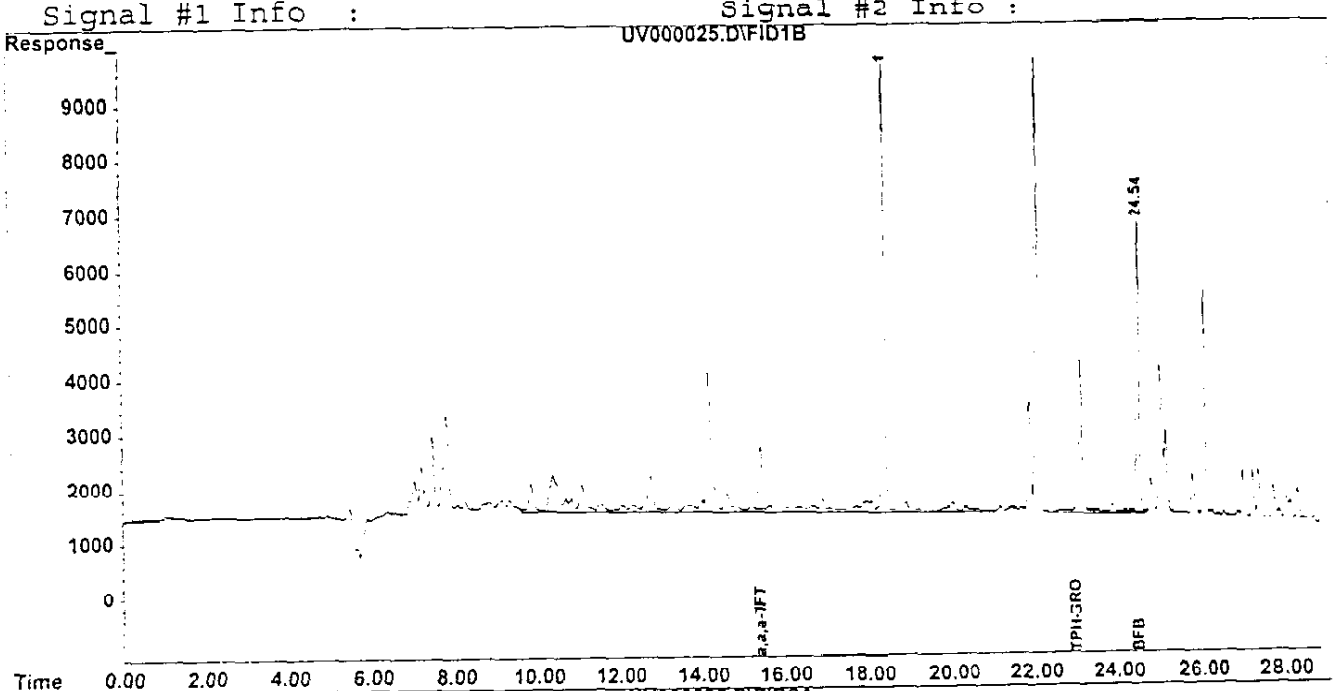
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

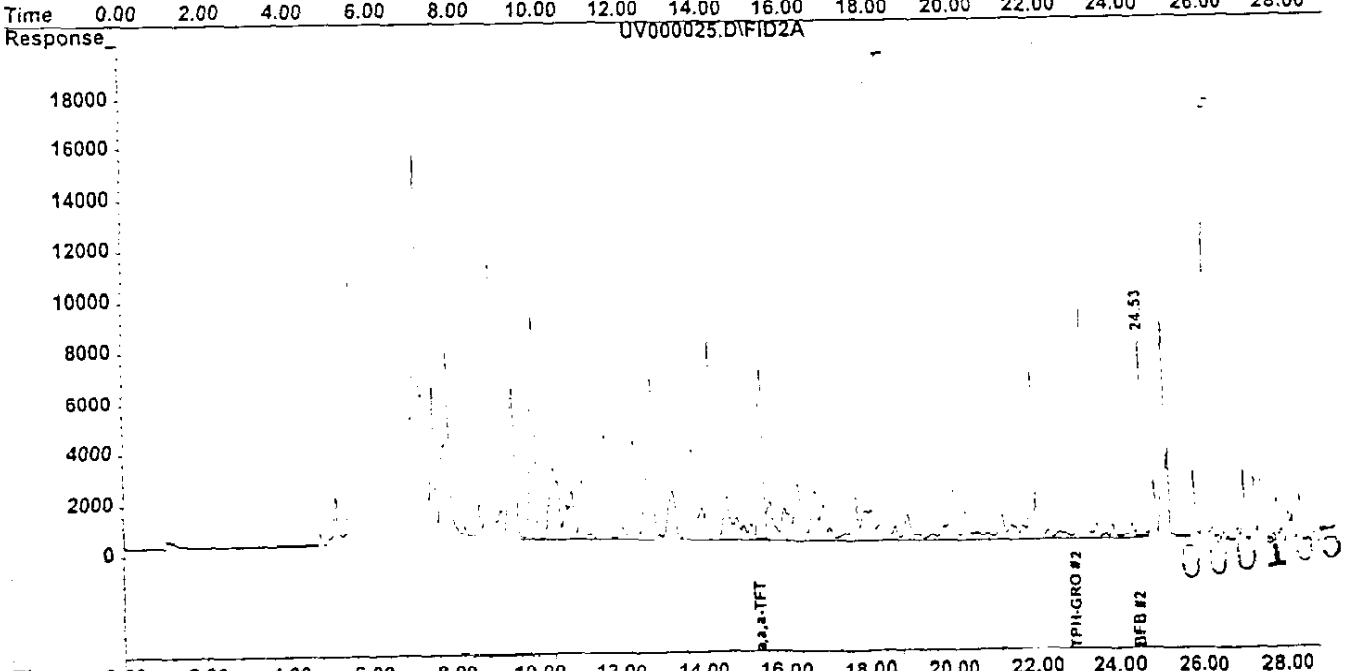
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000025.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000025.D\FID2A.CH
Acq On : 16 Sep 1999 4:50 pm Operator: RickW
Sample : 600ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:52 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 08:54:08 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000105

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000026.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000026.D\FID2A.CH
Acq On : 16 Sep 1999 5:26 pm Operator: RickW
Sample : 800ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:54 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:53:32 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.45	15.44	73570	515689	18.057	21.102
Spiked Amount 20.000			Recovery	=	90.29%	105.51%
2) S BFB	24.54	24.53	227273	340267	18.399	17.854m
Spiked Amount 20.000			Recovery	=	92.00%	89.27%
Target Compounds						
3) T TPH-GRO	23.00	23.00	2978965	14683833	632.121	756.291

00106

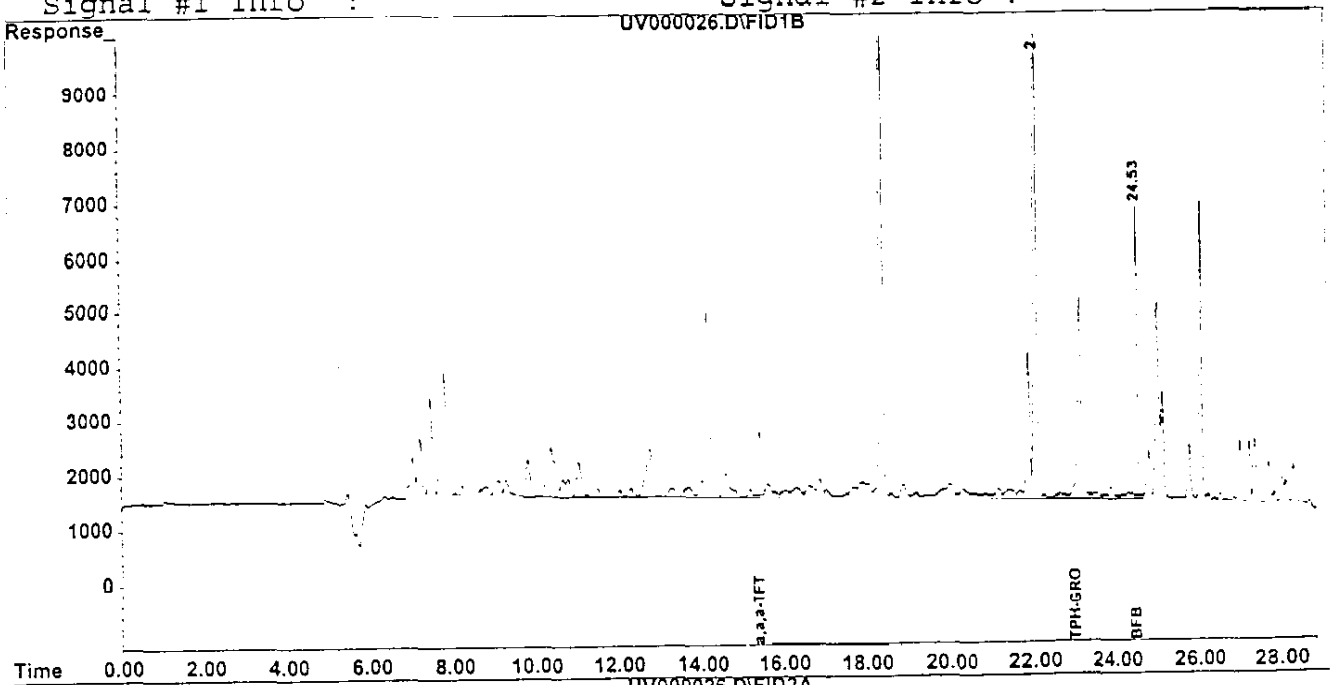
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

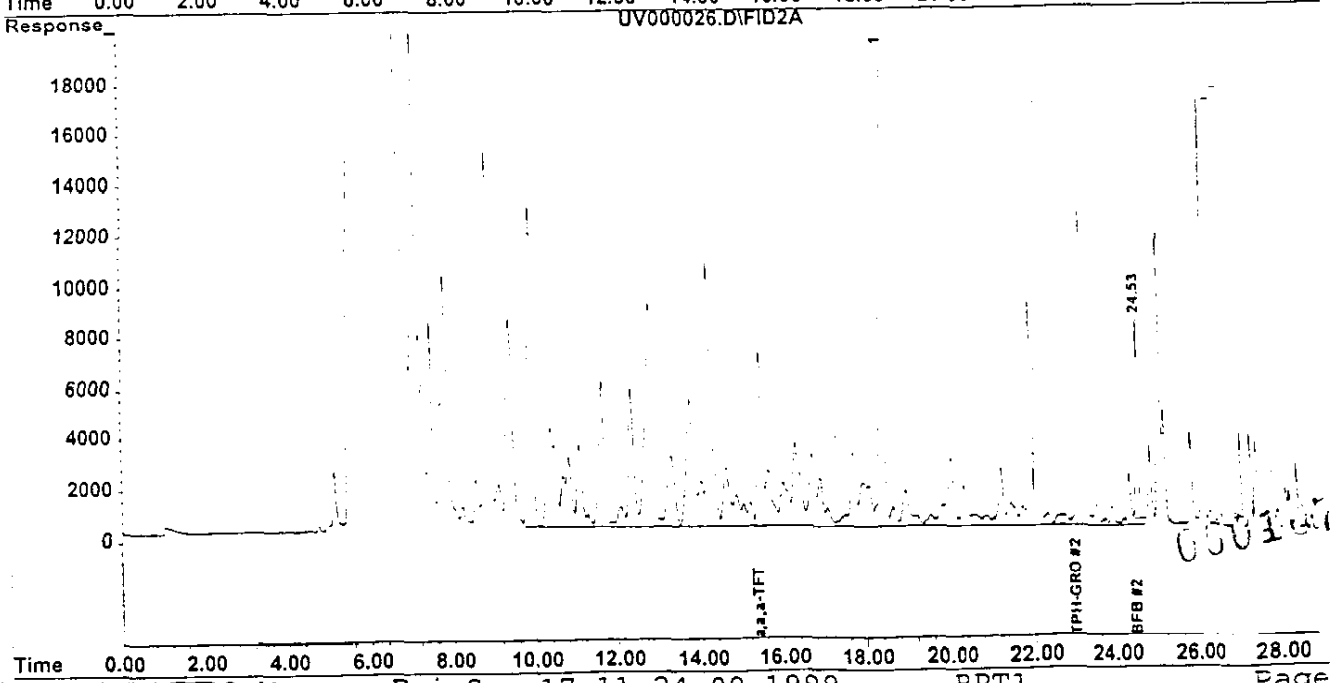
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000026.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000026.D\FID2A.CH
Acq On : 16 Sep 1999 5:26 pm Operator: RickW
Sample : 800ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:54 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:53:32 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000027.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000027.D\FID2A.CH
Acq On : 16 Sep 1999 6:02 pm Operator: RickW
Sample : 1000ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:58 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.47	15.46	72732	461349	18.434m	18.923m
Spiked Amount 20.000			Recovery	=	92.17%	94.61%
2) S BFB	24.55	24.55	222111	337022	18.474	18.783m
Spiked Amount 20.000			Recovery	=	92.37%	93.92%
Target Compounds						
3) H TPH-GRO	23.00	23.00	3471243	16834836	791.418	881.033

000106

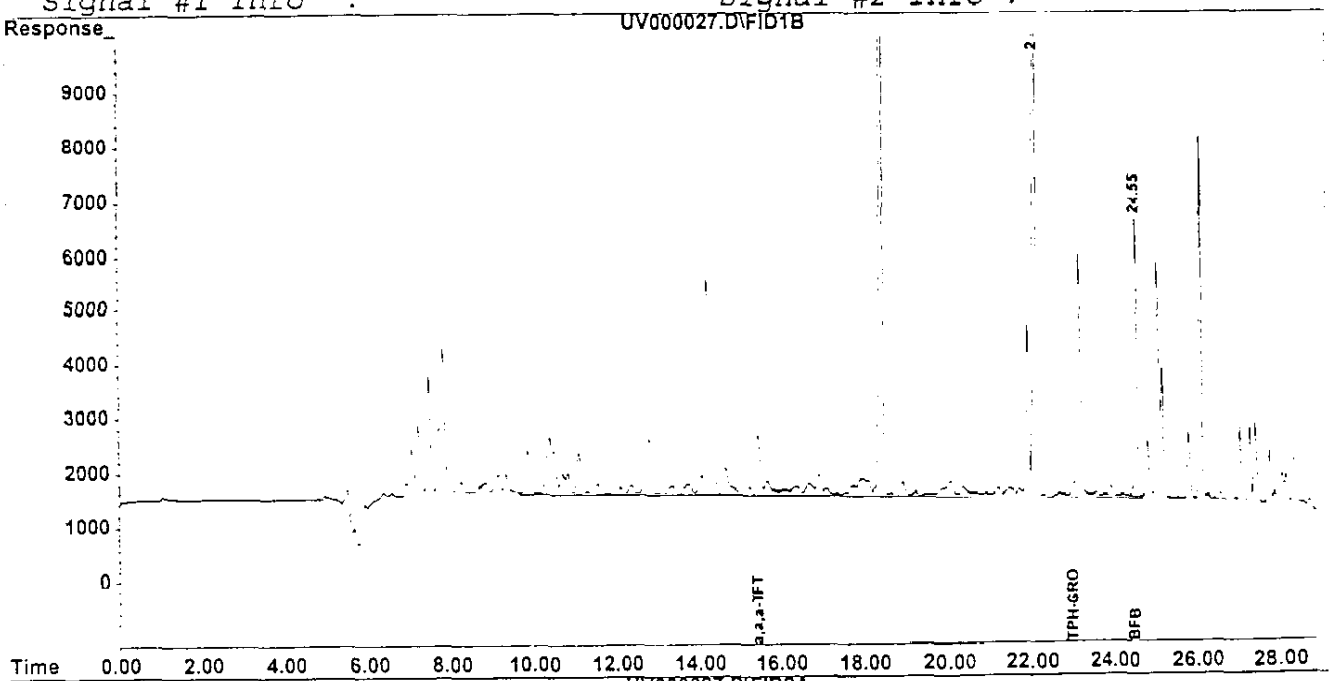
(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

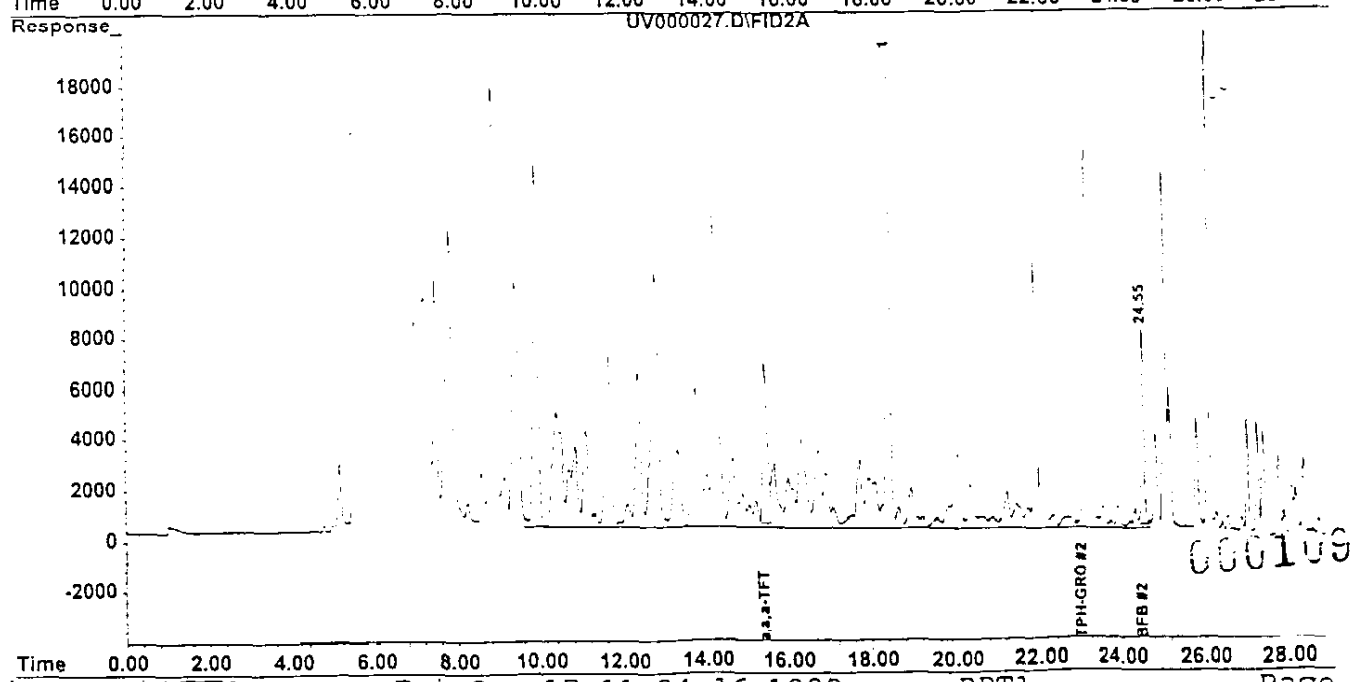
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000027.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000027.D\FID2A.CH
Acq On : 16 Sep 1999 6:02 pm Operator: RickW
Sample : 1000ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:58 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000109

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000028.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000028.D\FID2A.CH
Acq On : 16 Sep 1999 6:38 pm Operator: RickW
Sample : ICV 400ppb Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:06 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.46	15.46	72771	478673	18.957	20.135
Spiked Amount 20.000			Recovery	=	94.79%	100.68%
2) S BFB	24.54	24.54	231514	349492	19.971	19.907m
Spiked Amount 20.000			Recovery	=	99.86%	99.54%
Target Compounds						
3) M TPH-GRO	23.00	23.00	1491003	6982099	336.091	362.414

000110

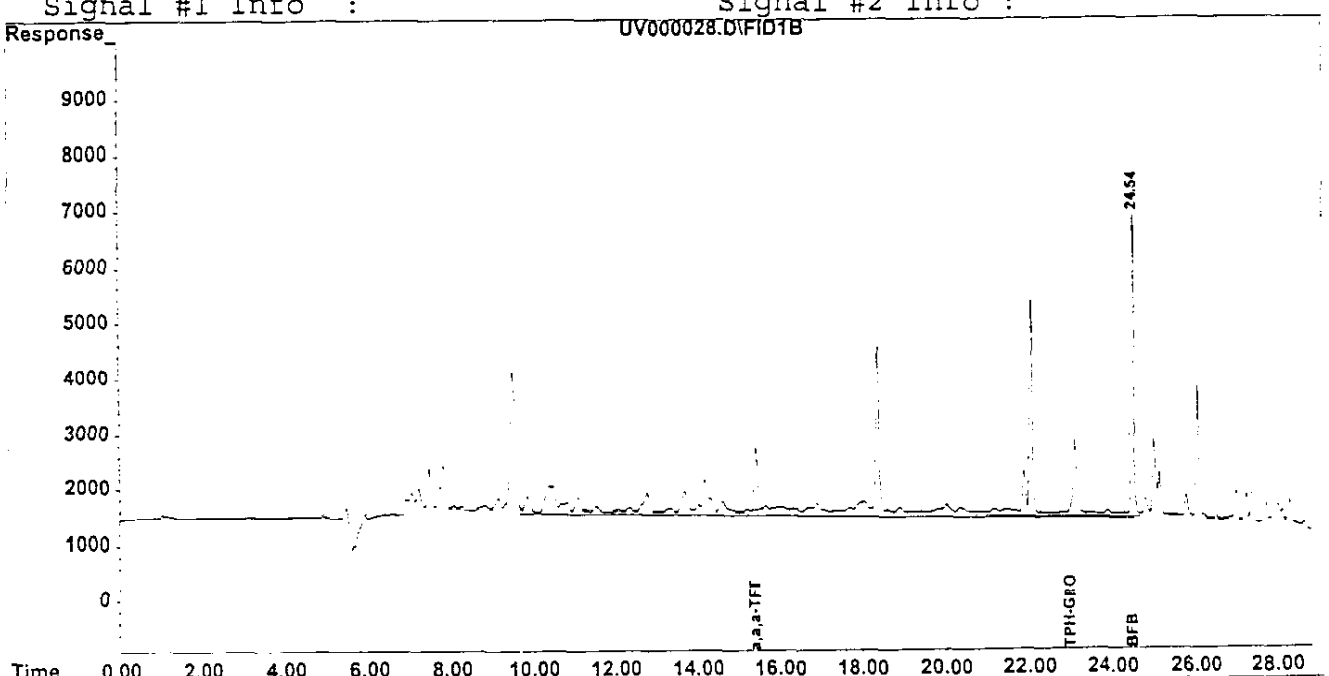
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

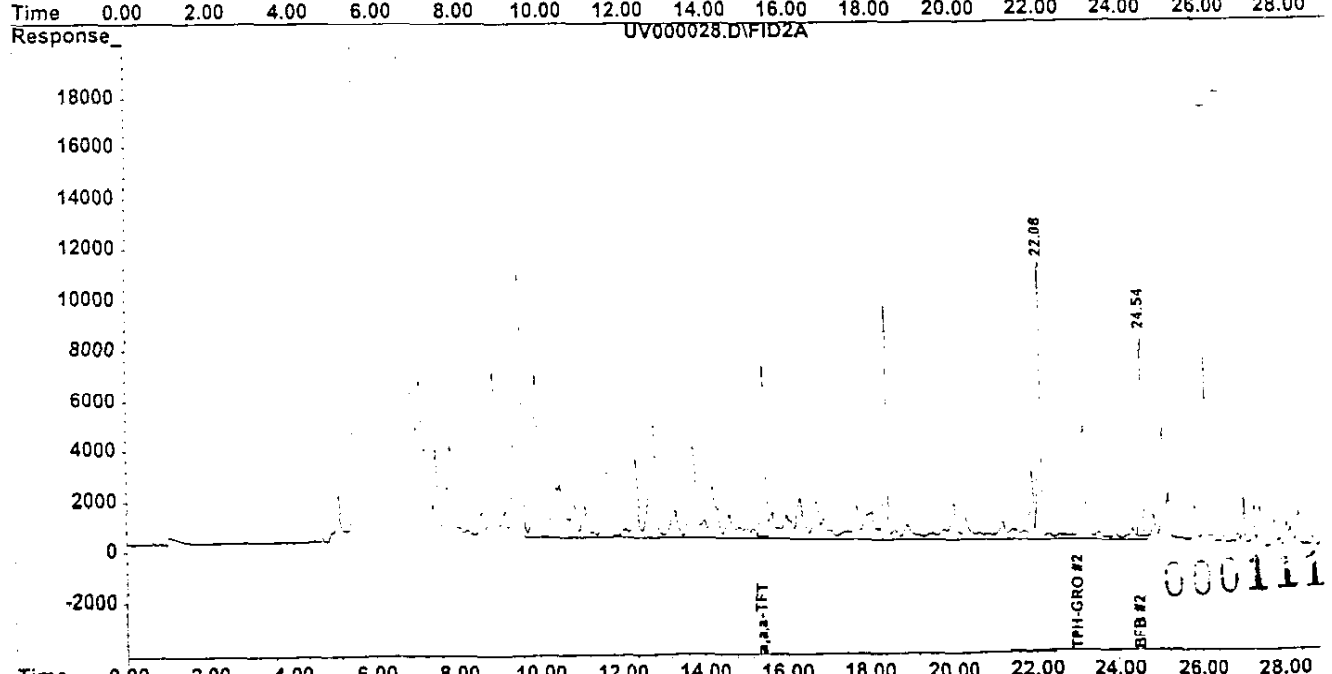
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000028.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000028.D\FID2A.CH
Acq On : 16 Sep 1999 6:38 pm Operator: RickW
Sample : ICV 400ppb Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:06 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000111

CONTINUING CALIBRATION SUMMARY

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000095.D\FID1B.CH Vial: 10
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000095.D\FID2A.CH
Acq On : 27 Sep 1999 9:14 am Operator: RickW
Sample : C6-C10 alkanes Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 9:48 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 23 10:13:38 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	0.00	0	N.D. ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	0.00%#
2) S BFB	0.00	0	N.D. ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	0.00%#
4) S a,a,a-TFT #2	0.00	0	N.D. ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	0.00%#
5) S BFB #2	0.00	0	N.D. ug/L d
iked Amount 20.000	Range 75 - 125	Recovery =	0.00%#
Target Compounds			
6) H TPH-GRO (C6-C10)	23.00	17323531	1001.448 ug/L

000112

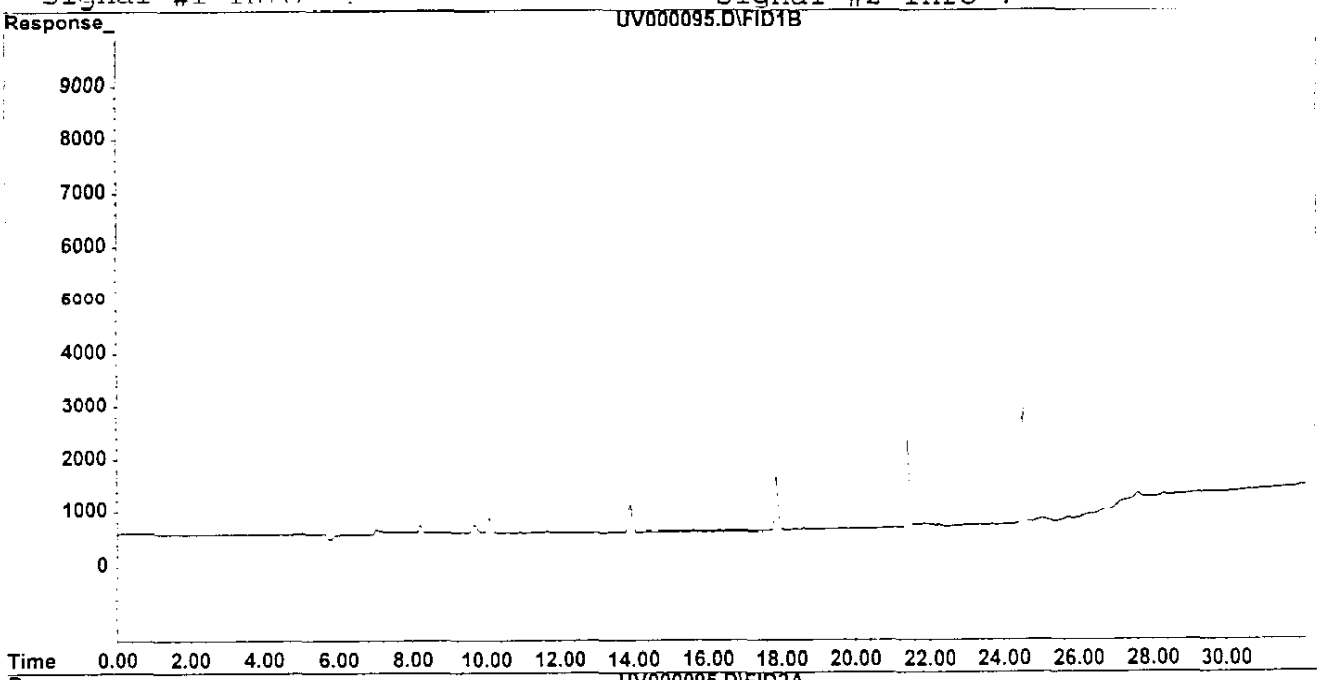
(f)=RT Delta > 1/2 Window (m)=manual int.

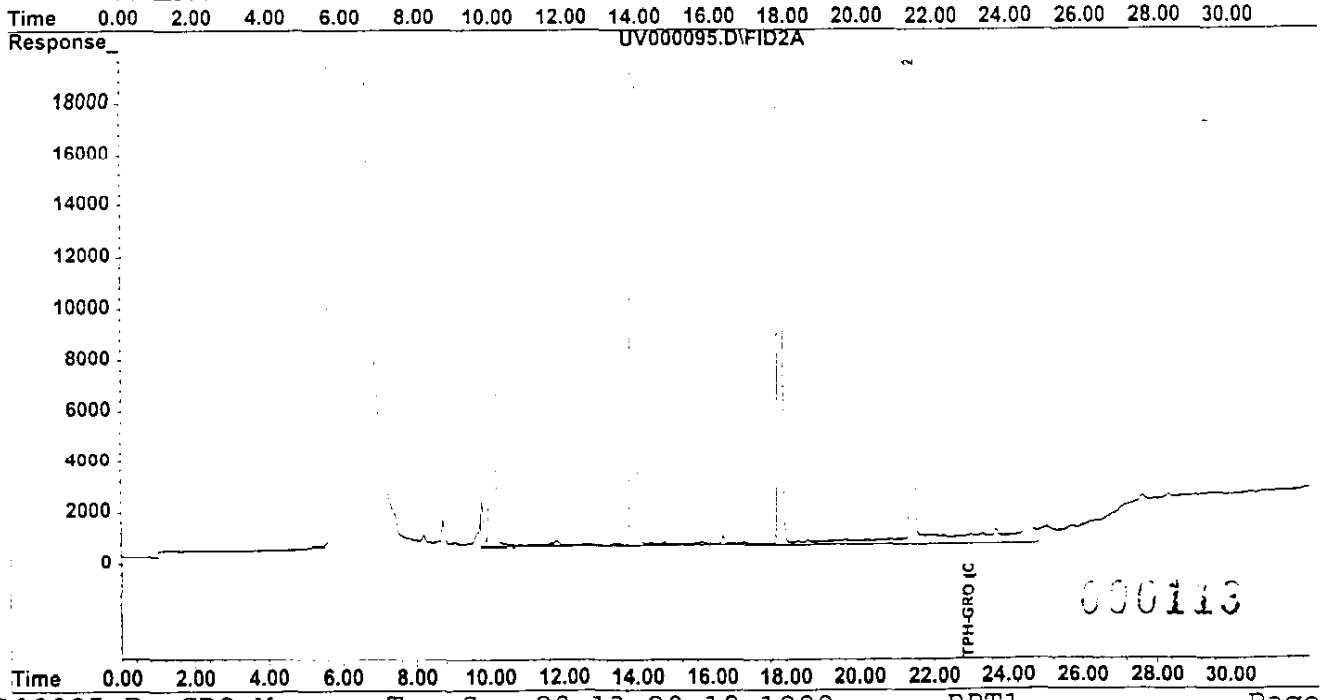
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000095.D\FID1B.CH Vial: 10
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000095.D\FID2A.CH
Acq On : 27 Sep 1999 9:14 am Operator: RickW
Sample : C6-C10 alkanes Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 9:48 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 23 10:13:38 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000113

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID1B.CH Vial: 11
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID2A.CH
Acq On : 27 Sep 1999 10:33 am Operator: RickW
Sample : 400ppb CCV Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 11:09 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Mon Sep 27 11:09:01 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	15.62	76350	19.890 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	99.45%
2) S BFB	24.71	221197	19.081 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	95.41%
4) S a,a,a-TFT #2	15.62	492966	20.736 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	103.68%
5) S BFB #2	24.71	349910	19.930 ug/L
iked Amount 20.000	Range 75 - 125	Recovery =	99.65%
Target Compounds			
6) H TPH-GRO (C6 C10)	23.00	7670261	404.938 ug/L

000114

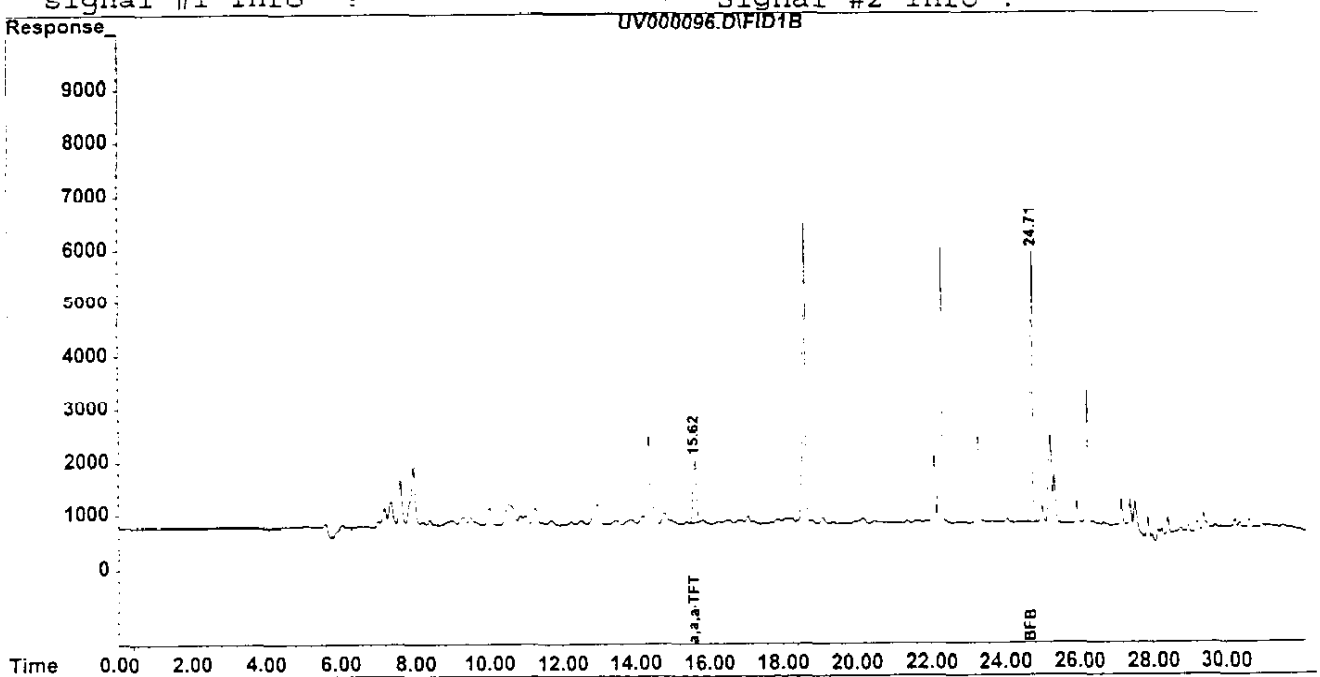
(f)=RT Delta > 1/2 Window (m)=manual int.

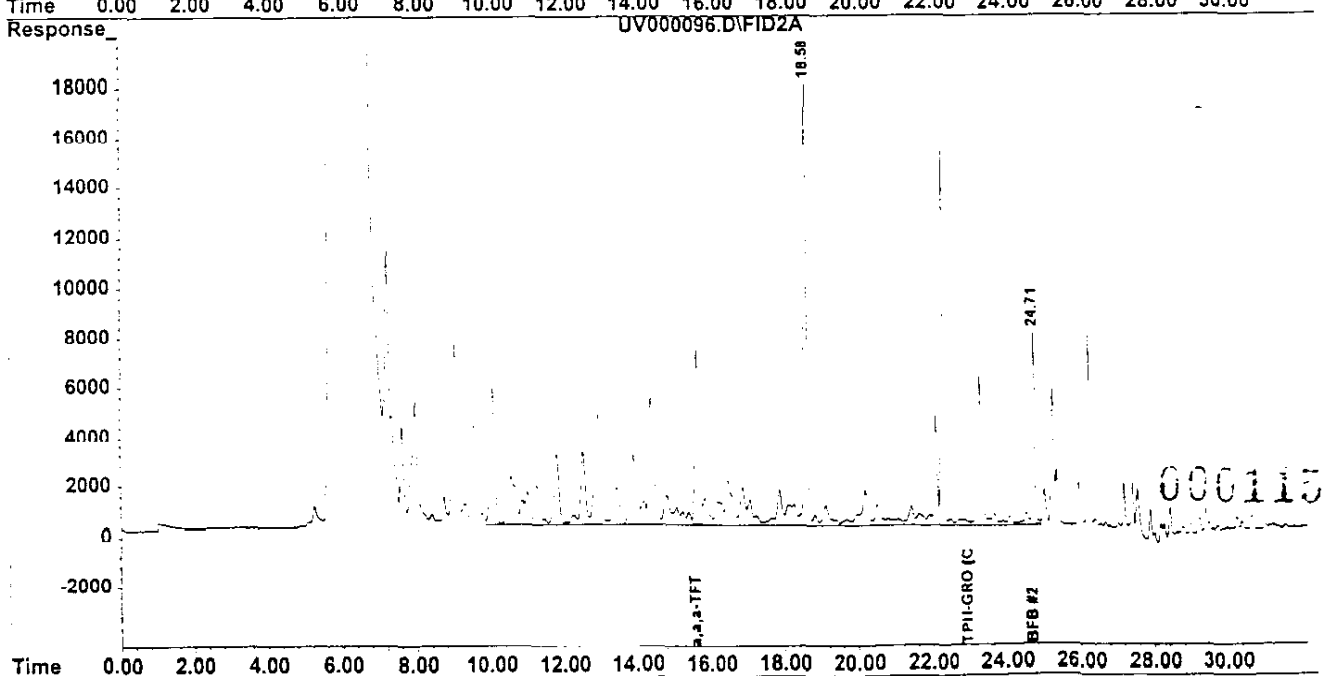
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID1B.CH Vial: 11
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID2A.CH
Acq On : 27 Sep 1999 10:33 am Operator: RickW
Sample : 400ppb CCV Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 11:09 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Mon Sep 27 11:09:01 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000115

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID1B.CH Vial: 11
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID2A.CH
Acq On : 27 Sep 1999 10:33 am Operator: RickW
Sample : 400ppb CCV Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	a,a,a-TFT	20.000	19.890	0.5	101	0.00
2	S	BFB	20.000	19.081	4.6	94	0.00
		Signal #2					
4	S	a,a,a-TFT #2	20.000	20.736	-3.7	106	0.00
5	S	BFB #2	20.000	19.930	0.4	97	0.00
6	H	TPH-GRO (C6-C10)	400.000	404.938	-1.2	100	0.00

000116

Evaluate Continuing Calibration Report - Not Founds

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID1B.CH Vial: 11
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID2A.CH
Acq On : 27 Sep 1999 10:33 am Operator: RickW
Sample : 400ppb CCV Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

Signal #2

000117

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID2A.CH
Acq On : 27 Sep 1999 5:46 pm Operator: RickW
Sample : CCV Inst : VOA4
Misc : gc663,guv2,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:10 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a TFT	15.67	71256	18.563 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	92.82%
2) S BFB	24.77	208426	17.980 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	89.90%
4) S a,a,a-TFT #2	15.67	470458	19.789 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	98.95%
5) S BFB #2	24.77	370039	21.077 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	105.39%
Target Compounds			
6) H TPH-GRO (C6-C10)	23.00	7434182	390.350 ug/L

000113

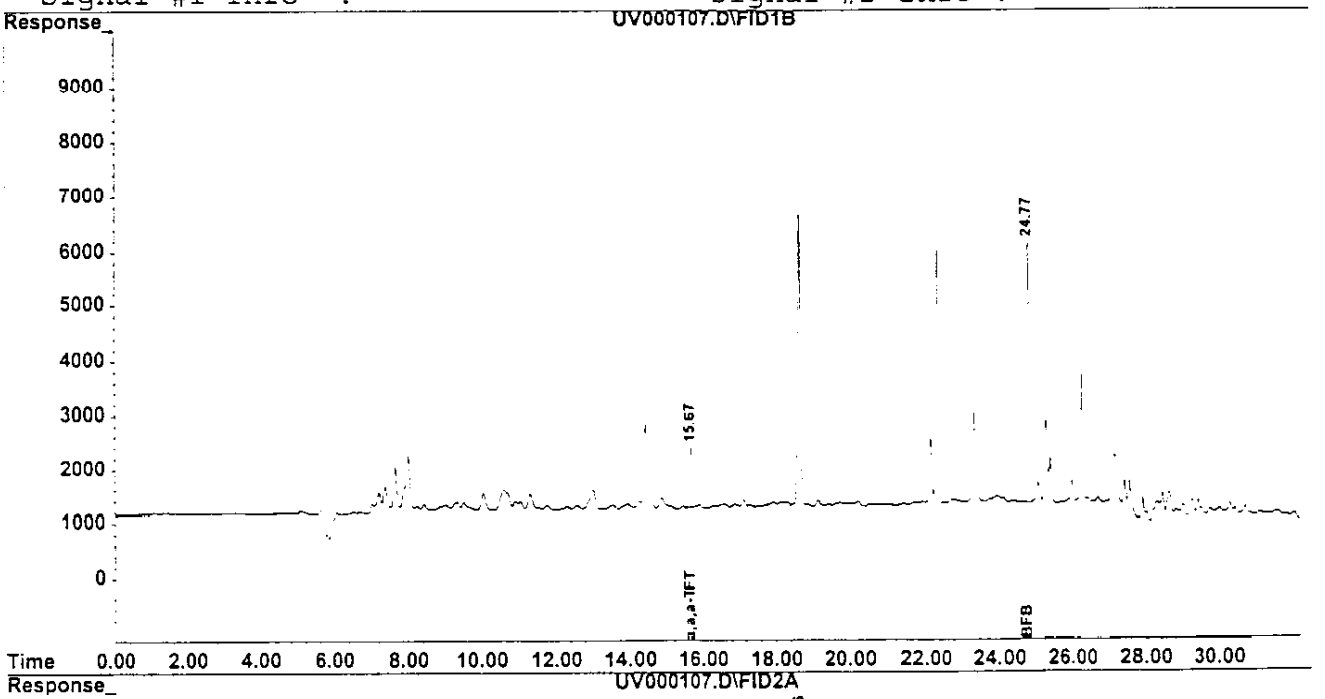
(f)=RT Delta > 1/2 Window (m)=manual int.

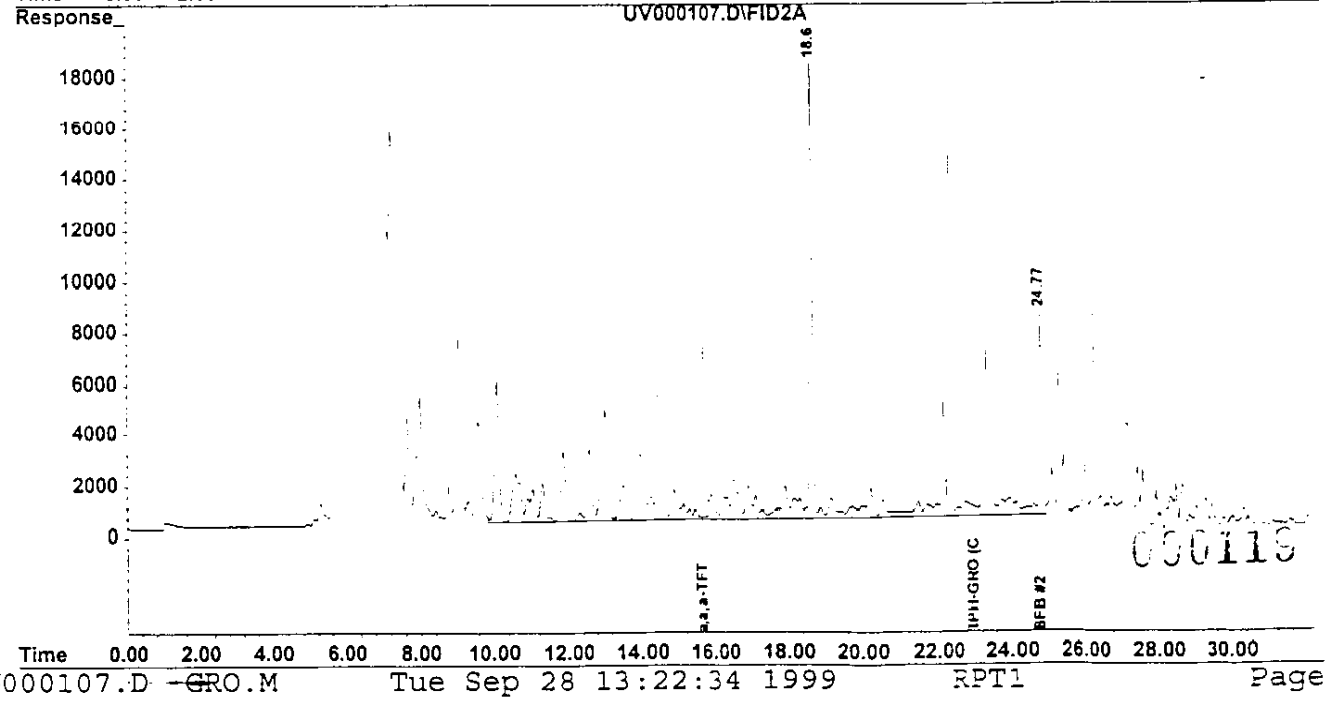
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID2A.CH
Acq On : 27 Sep 1999 5:46 pm Operator: RickW
Sample : CCV Inst : VOA4
Misc : gc663,guv2,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:10 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000116

SEQUENCE LOG SUMMARY

VGC.07

Sequence Name: C:\HPCHEM\2\SEQUENCE\092799.S
Comment:
Operator: RickW
Data Path: C:\HPCHEM\2\DATA\092799\
Pre-Seq Cmd:
Post-Seq Cmd:

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	DailyCal	10	UV000095	GRO	C6-C10 alkanes
2	DailyCal	11	UV000096	GRO	400ppb CCV
3	Blank	12	UV000097	GRO	MB
4	Sample	13	UV000098	GRO	F4929-1,5ml
5	Sample	14	UV000099	GRO	F4928-1,5ml
6	Sample	15	UV000100	GRO	F4928-2,5ml
7	Sample	16	UV000101	GRO	F4928-8,5ml
8	Sample	1	UV000102	GRO	F4941-1,5ml
9	Sample	2	UV000103	GRO	F4936-2,5ml
10	Sample	3	UV000104	GRO	F4936-3,5ml
11	Sample	4	UV000105	GRO	F4936-6,5ml
12	Blank	5	UV000106	GRO	MB,5g/5ml-100ul
13	DailyCal	6	UV000107	GRO	CCV
14	Sample	7	UV000108	GRO	F4928-3,5.64g/5ml-100ul
15	Sample	8	UV000109	GRO	F4928-4,6.39g/5ml-100ul
16	Sample	9	UV000110	GRO	F4928-5,5.69g/5ml-100ul
17	Sample	10	UV000111	GRO	F4928-6,5.93g/5ml-12.5ul
18	Sample	11	UV000112	GRO	F4928-7,6.30g/5ml-100ul
19	Sample	12	UV000113	GRO	F4936-1,5.10g/5ml-100ul
20	Sample	13	UV000114	GRO	F4936-4,5.74g/5ml-100ul
21	Sample	14	UV000115	GRO	F4936-5,6.17g/5ml-100ul
22	DailyCal	15	UV000116	GRO	CCV

0001

M

GC Analysis Log

[illegible]-99

[illegible] 8015B

GRO

Analyst's Signature: [signature]

Column: RTX502.2 Detector: PID/FID

Instrument: UV Calibration Date: 9-16-99

	Sample ID	Sample Amount	Matrix	PH	ALS #	Dil.	Comments	
[illegible]	C6-C10	5ml	W	7	10	1	25ulV1167	
[illegible]	CCV			7	11		20ulV1165	
[illegible]	MB			7	12		10ulV1190	
[illegible]	F4929-1			5	13		PH! ND	GC662, GUV1
[illegible]	F4928-1			6	14		PH! ND	
[illegible]	-2			5	15		PH! ND	
[illegible]	-8			1.5	16		ND	
[illegible]	F4941-1			1.5	1		ND	
103	F4936-2			6	2		PH! ND	
104	-3			3	3		PH! ND	
105	-6			1.5	4		ND	
106	MB	100ul	S		5	50	ND	
107	CCV	5ml	W	7	6	1	✓	
108	F4928-3	100ul	S		7	50	ND	GC663, GUV2
109	-4	100ul			8	50	ND	
110	-5	100ul			9	50	ND	
111	-6	12.5ul			10	400	✓	
112	-7	100ul			11	50	ND	
113	F4936-1	100ul			12	50	ND	
114	-4	100ul			13	50	ND	
115	-5	100ul	✓		14	50	ND	
116	CCV	5ml	W	7	15	1	✓	

[illegible]

[illegible]

[illegible]ter, S for soil, and O for oil.

[illegible] weight (g) or volume (ml) / Final volume.

Sequence Name: C:\HPCHEM\2\OLDDATA\091699.S
Comment:
Operator: RickW
Data Path: C:\HPCHEM\2\DATA\091699\
Pre-Seq Cmd:
Post-Seq Cmd:

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	DailyCal	16	UV000021	GRO	C6-C10 alkanes
2	Calibration	1	UV000022	GRO	100ppb STD
3	Calibration	2	UV000023	GRO	200ppb STD
4	Calibration	3	UV000024	GRO	400ppb STD
5	Calibration	4	UV000025	GRO	600ppb STD
6	Calibration	5	UV000026	GRO	800ppb STD
7	Calibration	6	UV000027	GRO	1000ppb STD
8	Calibration	7	UV000028	GRO	ICV 400ppb
9	Blank	8	UV000029	GRO	MB
10	Sample	9	UV000030	GRO	MDL 1
11	Sample	10	UV000031	GRO	MDL 2
12	Sample	11	UV000032	GRO	MDL 3
13	Sample	12	UV000033	GRO	MDL 4
14	Sample	13	UV000034	GRO	MDL 5
15	Sample	14	UV000035	GRO	MDL 6
16	Sample	15	UV000036	GRO	MDL 7
17	DailyCal	16	UV000037	GRO	CCV
18					

000122

GC Analysis Log

Date: 9-16-99 Analyst's Signature: [illegible]

Analysis Method: 8015 Column: RTX 502.2 Detector: PID/FID

Method File: GPO Instrument: UV Calibration Date: 9-17-99

Data File	Sample ID	Sample Amount	Matrix	PH	ALS #	Dil.	Comments
UV00021	C6-C10				16		25ml V1167
22	100 ppb	5ml	W		1	1	5ml V1165
23	200				2		10
24	400				3		20
25	600				4		30
26	800				5		40
27	1000				6		50
28	ICV 400				7		20ml V1166
29	MB	10ml	S		8	50	10ml V1143
30	MDL 1				9		✓
31	2				10		✓
32	3				11		✓
33	4				12		✓
34	5				13		✓
35	6				14		✓
36	7				15		✓
37	CCV	5ml	W		16		20ml V1165

Note:

Matrix Designate W for water, S for soil, and O for oil.

Sample amount Initial sample weight (g) or volume (ml) / Final volume.

SAMPLE RESULT SUMMARY

Report of Analysis

Client Sample ID:	GP.10.01		
Lab Sample ID:	F4929-1	**Date Sampled:**	09/22/99
Matrix:	AQ - Ground Water	**Date Received:**	09/23/99
Method:	SW846 3510C/8081A	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST00706.D	1	09/27/99	SKW	09/27/99	OP956	GST28
Run #2							

Pesticide TCL List

CAS No.	Compound	Result	RDL	Units	Q
309-00-2	Aldrin	ND	0.050	ug/l	
319-84-6	alpha-BHC	ND	0.050	ug/l	
319-85-7	beta-BHC	ND	0.050	ug/l	
319-86-8	delta-BHC	ND	0.050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	ug/l	
5103-71-9	alpha-Chlordane	ND	0.10	ug/l	
5103-74-2	gamma-Chlordane	ND	0.10	ug/l	
60-57-1	Dieldrin	ND	0.050	ug/l	
72-54-8	4,4'-DDD	ND	0.10	ug/l	
72-55-9	4,4'-DDE	ND	0.10	ug/l	
50-29-3	4,4'-DDT	ND	0.10	ug/l	
72-20-8	Endrin	ND	0.10	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	ug/l	
53494-70-5	Endrin ketone	ND	0.10	ug/l	
959-98-8	Endosulfan-I	ND	0.050	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	ug/l	
76-44-8	Heptachlor	ND	0.050	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	ug/l	
72-43-5	Methoxychlor	ND	0.20	ug/l	
8001-35-2	Toxaphene	ND	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		30-160%
2051-24-3	Decachlorobiphenyl	43%		30-160%

000124

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

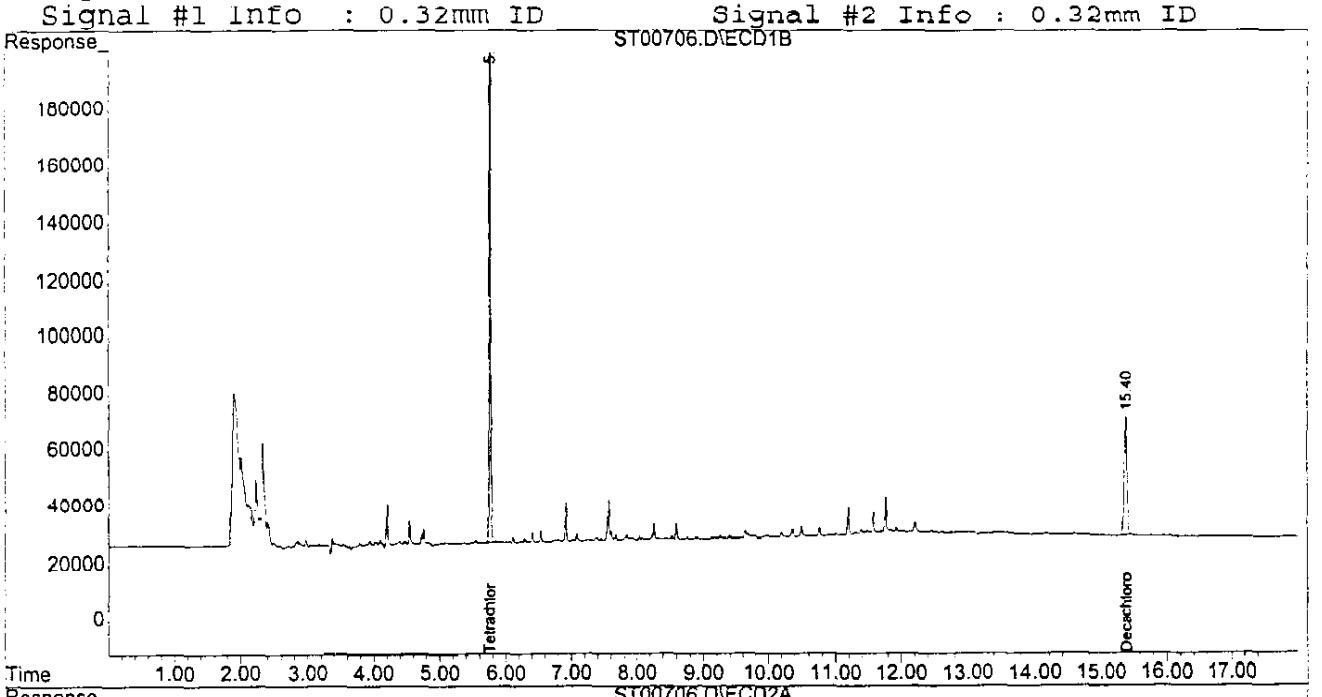
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

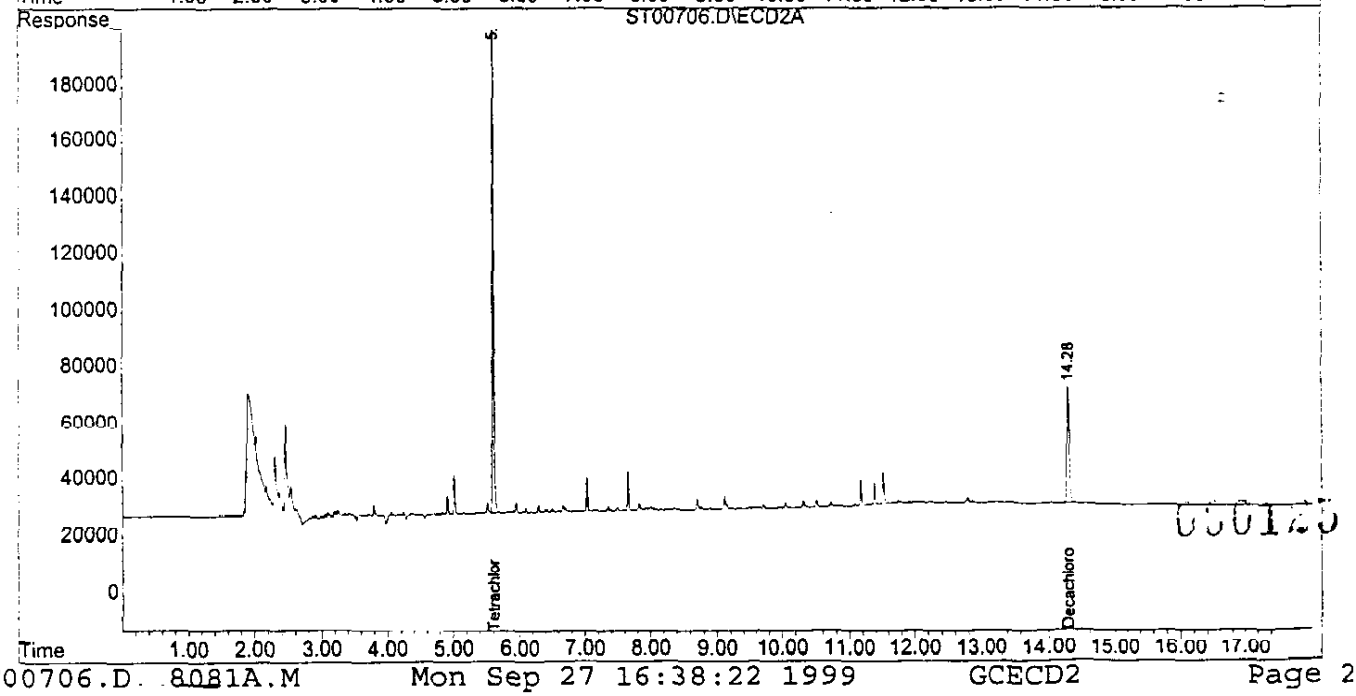
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00706.D\ECD1B.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00706.D\ECD2A.CH
Acq On : 9-27-99 3:47:40 PM Operator: stephw
Sample : F4929-1 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 16:25 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00706.D\ECD1B.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00706.D\ECD2A.CH
Acq On : 9-27-99 3:47:40 PM Operator: stephw
Sample : F4929-1 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 16:25 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.75	5.60	248155	209219	39.318	38.989
Spiked Amount 50.000 Range 30 - 160 Recovery =					78.64%	77.98%
29) SC Decachlorobiphen	15.40	14.28	42535	41426	21.713	21.095
Spiked Amount 50.000 Range 30 - 160 Recovery =					43.43%	42.19%
Target Compounds						
Sum Chlordane-A			0	0	N.D.	N.D.
A age Chlordane-A					0.000	0.000

000126

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
ST00706.D 8081A.M Mon Sep 27 16:38:21 1999 GCECD2 Page 1

SURROGATE RECOVERIES SUMMARY

SGC.02

Semivolatile Surrogate Recovery Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Method: SW846 3510C/8081A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]
F4929-1	ST00706.D	79.0	43.0
OP956-BS5	ST00705.D	64.0	72.0
OP956-MB5	ST00704.D	70.0	41.0
OP956-MS	ST00306.D	78.0	64.0
OP956-MSD	ST00307.D	78.0	61.0
OP956-MB	ST00296.D	79.0	77.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-160%
S2 = Decachlorobiphenyl	30-160%

(a) Recovery from GC signal #1

MATRIX SPIKE/ MATRIX SPIKE DUPLICATE/ BLANK SPIKE SUMMARY

Blank Spike Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP956-BS5	ST00705.D	1	09/27/99	SKW	09/27/99	OP956	GST28

The QC reported here applies to the following samples: **Method:** SW846 3510C/8081A

F4929-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.5	0.38	76	34-132
319-84-6	alpha-BHC	0.5	0.46	92	39-132
319-85-7	beta-BHC	0.5	0.44	88	28-151
319-86-8	delta-BHC	0.5	0.34	68	16-137
58-89-9	gamma-BHC (Lindane)	0.5	0.48	96	31-127
5103-71-9	alpha-Chlordane	0.5	0.46	92	45-128
5103-74-2	gamma-Chlordane	0.5	0.46	92	45-128
60-57-1	Dieldrin	0.5	0.46	92	43-139
72-54-8	4,4'-DDD	0.5	0.50	100	35-138
72-55-9	4,4' DDE	0.5	0.48	96	45-139
50-29-3	4,4'-DDT	0.5	0.43	86	33-149
72-20-8	Endrin	0.5	0.46	92	35-151
1031-07-8	Endosulfan sulfate	0.5	0.44	88	26-140
7421-93-4	Endrin aldehyde	0.5	0.050	10	10-141
53494-70-5	Endrin ketone	0.5	0.48	96	35-141
959-98-8	Endosulfan-I	0.5	0.47	94	55-143
33213-65-9	Endosulfan-II	0.5	0.49	98	35-186
76-44-8	Heptachlor	0.5	0.40	80	31-125
1024-57-3	Heptachlor epoxide	0.5	0.47	94	69-129
72-43-5	Methoxychlor	0.5	0.45	90	40-138

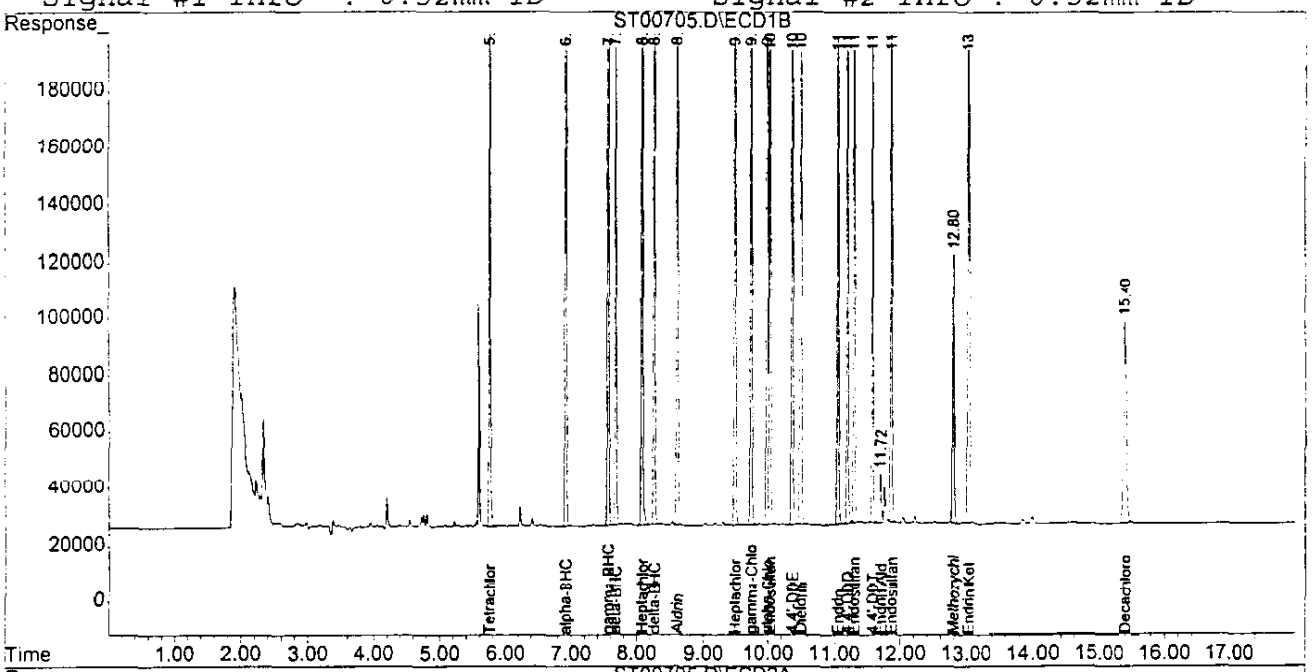
CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	64%	30-160%
2051-24-3	Decachlorobiphenyl	72%	30-160%

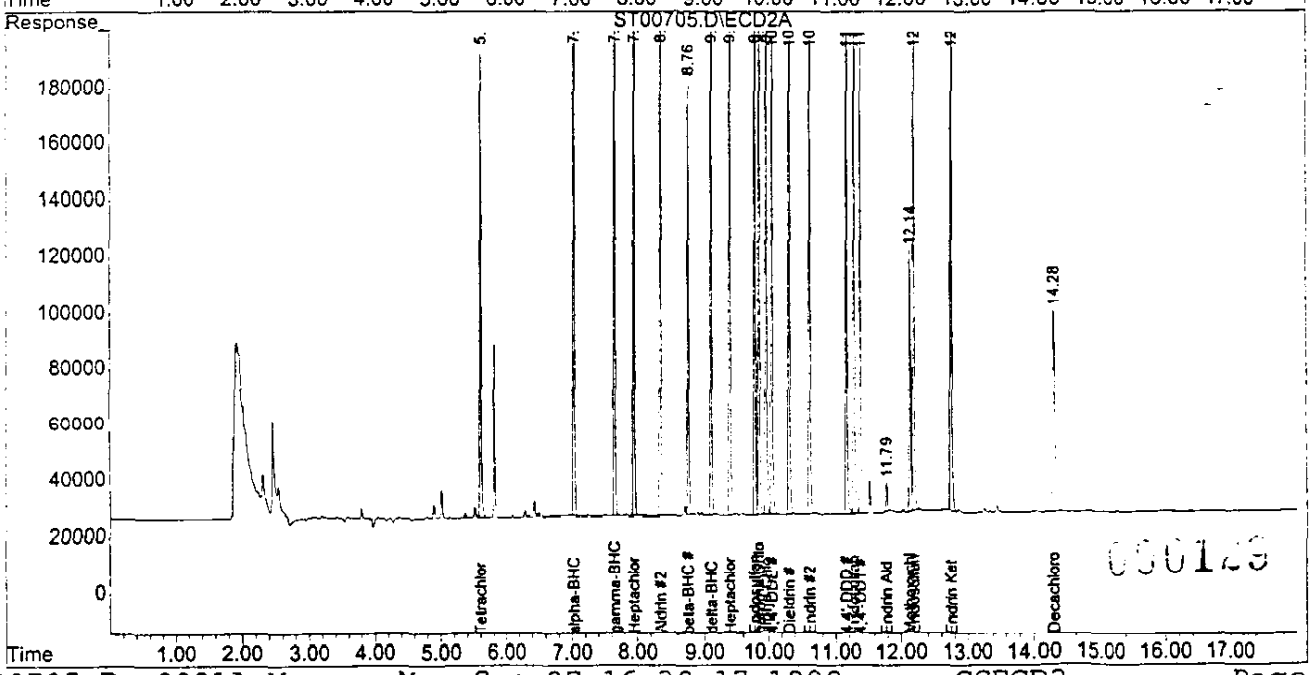
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00705.D\ECD1B.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00705.D\ECD2A.CH
Acq On : 9-27-99 3:26:33 PM Operator: stephw
Sample : op956-bs5 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 16:24 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00705.D\ECD1B.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00705.D\ECD2A.CH
Acq On : 9-27-99 3:26:33 PM Operator: stephw
Sample : op956-bs5 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 16:24 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.75	5.60	203310	164244	32.212	30.608
Spiked Amount 50.000 Range 30 - 160 Recovery =					64.42%	61.22%
29) SC Decachlorobiphen	15.40	14.28	70999	71942	36.242	36.635
Spiked Amount 50.000 Range 30 - 160 Recovery =					72.48%	73.27%
Target Compounds						
2) alpha-BHC	6.92	7.03	486511	387491	46.511	46.784
3) gamma-BHC (Linda	7.56	7.65	433657	353102	48.394	46.373
4) beta-BHC	7.68	8.76	175363	152639	44.444	43.810
5) Heptachlor	8.09	7.95	298515	259668	40.055	38.855
6) delta-BHC	8.27	9.11	293711	233349	34.283	35.208
7) Aldrin	8.61	8.35	266198	243326	37.660	38.164
8) Heptachlor Epoxi	9.49	9.40	313085	266400	47.201	45.908
9) gamma-Chlordane	9.74	9.85	295105	253175	46.014	46.364
10) alpha-Chlordane	9.99	9.96	291334	251343	45.641	45.728
11) Endosulfan I	10.04	9.79	283051	234515	47.347	45.638
12) 4,4'-DDE	10.38	10.05	295519	235776	47.660	45.951
13) Dieldrin	10.50	10.32	295132	256726	46.500	45.964
14) Endrin	11.06	10.62	246794	206331	46.435	44.779
15) 4,4'-DDD	11.20	11.17	262422	216291	50.443	50.009
16) Endosulfan II	11.30	11.28	274541	232445	48.608	46.799
17) 4,4'-DDT	11.59	11.38	221760	181000	43.074	44.013
18) Endrin Aldehyde	11.72	11.79	17422	10069	5.033	4.964
19) Endosulfan Sulfa	11.88	12.19	220780	177150	44.251	43.366
20) Methoxychlor	12.80	12.14	95044	93193	44.852	44.773
21) Endrin Ketone	13.03	12.75	228383	195750	48.339	48.632
Sum Chlordane-A			0	0	N.D.	N.D.
Average Chlordane-A					0.000	0.000

000100

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP956-MS	ST00306.D	4	09/01/99	SKW	08/31/99	OP956	GST13
OP956-MSD	ST00307.D	4	09/01/99	SKW	08/31/99	OP956	GST13
F4801-1 [a]	ST00303.D	10	09/01/99	SKW	08/31/99	OP956	GST13

The QC reported here applies to the following samples: **Method:** SW846 3510C/8081A

F4929-1

CAS No.	Compound	F4801-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.5	0.54	108	0.51	102	6	34-132/20
319-84-6	alpha-BHC	ND		0.5	0.46	92	0.44	88	4	39-132/23
319-85-7	beta-BHC	ND		0.5	0.57	114	0.54	108	5	28-151/28
319-86-8	delta-BHC	ND		0.5	0.46	92	0.44	88	4	16-137/27
58-89-9	gamma-BHC (Lindane)	ND		0.5	0.47	94	0.45	90	4	31-127/24
5103-71-9	alpha-Chlordane	ND		0.5	0.68	136*	0.64	128	6	45-128/18
5103-74-2	gamma-Chlordane	ND		0.5	0.88	176*	0.83	166*	6	45-128/18
60-57-1	Dieldrin	ND		0.5	0.53	106	0.49	98	8	43-139/24
72-54-8	4,4'-DDD	ND		0.5	0.56	112	0.53	106	6	35-138/26
72-55-9	4,4'-DDE	ND		0.5	0.60	120	0.58	116	3	45-139/24
50-29-3	4,4'-DDT	ND		0.5	0.51	102	0.49	98	4	33-149/29
72-20-8	Endrin	ND		0.5	0.46	92	0.44	88	4	35-151/27
1031-07 8	Endosulfan sulfate	ND		0.5	0.61	122	0.58	116	5	26-140/28
7421-93-4	Endrin aldehyde	ND		0.5	0.27	54	0.26	52	4	10-141/27
53494-70-5	Endrin ketone	ND		0.5	0.54	108	0.51	102	6	35-141/27
959-98-8	Endosulfan-I	ND		0.5	0.57	114	0.54	108	5	55-143/22
33213-65-9	Endosulfan-II	ND		0.5	0.51	102	0.49	98	4	35-186/45
76-44-8	Heptachlor	ND		0.5	0.47	94	0.46	92	2	31-125/20
1024-57-3	Heptachlor epoxide	ND		0.5	0.62	124	0.59	118	5	69-129/13
72-43-5	Methoxychlor	ND		0.5	0.50	100	0.47	94	6	40-138/25

CAS No.	Surrogate Recoveries	MS	MSD	F4801-1	Limits
877-09-8	Tetrachloro-m-xylene	78%	78%	99%	30-160%
2051-24-3	Decachlorobiphenyl	64%	61%	54%	30-160%

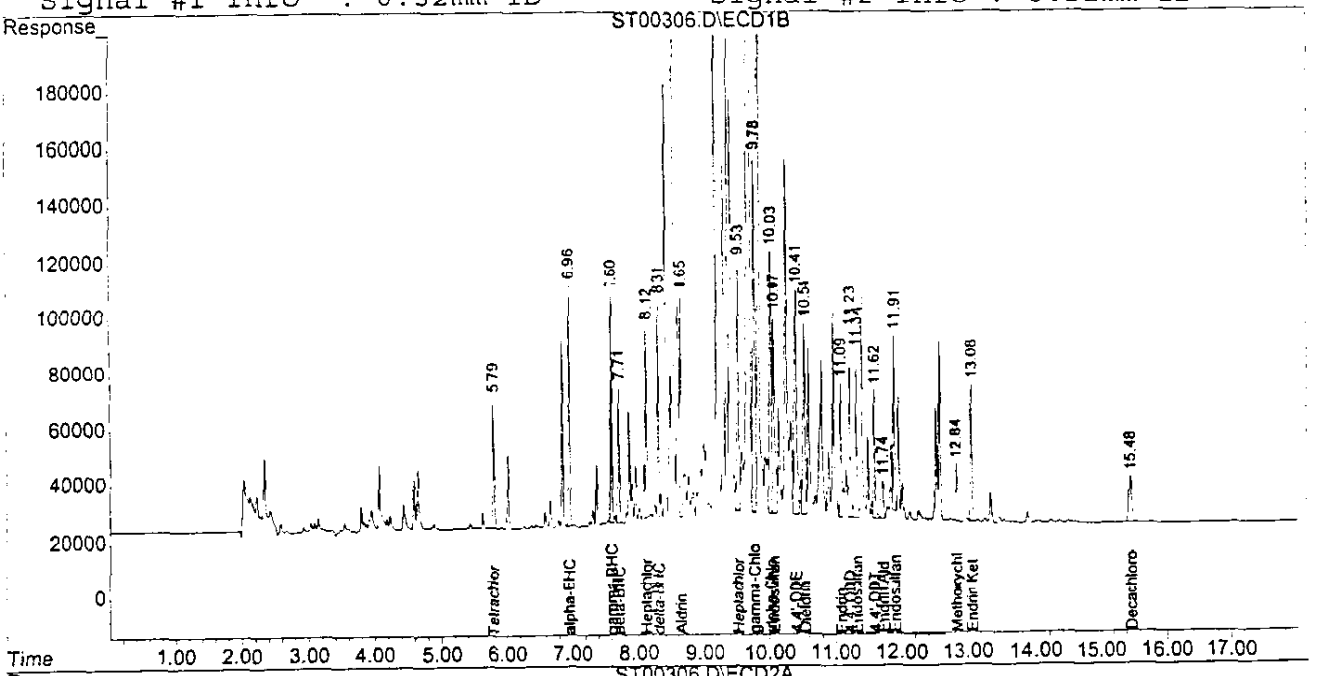
(a) Dilution required due to matrix interference.

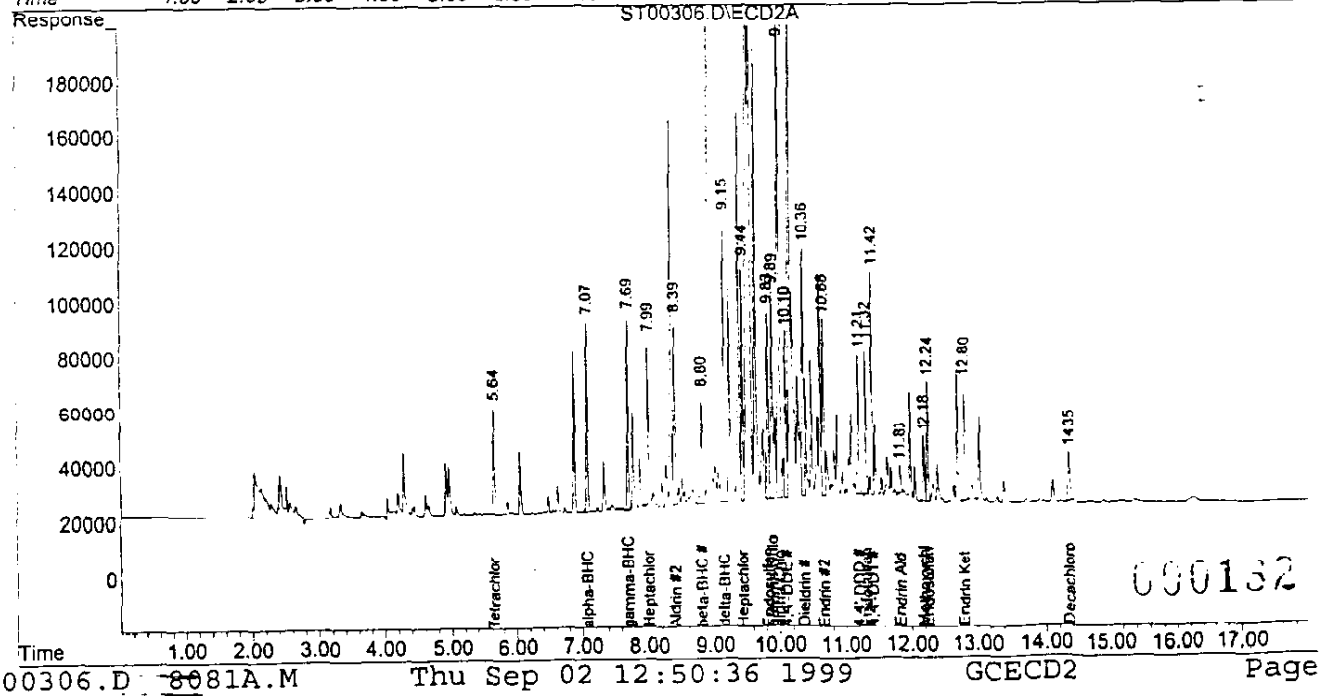
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0901PEST\ST00306.D\ECD1B.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\0901PEST\ST00306.D\ECD2A.CH
Acq On : 9-1-99 3:51:26 PM Operator: stephw
Sample : op956-ms,4x Inst : ECD 3
Misc : op956,gst13,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 2 12:31 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Wed Sep 01 13:46:30 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000132

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0901PEST\ST00306.D\ECD1B.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\0901PEST\ST00306.D\ECD2A.CH
Acq On : 9-1-99 3:51:26 PM Operator: stephw
Sample : op956-ms,4x Inst : ECD 3
Misc : op956,gst13,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 2 12:31 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Wed Sep 01 13:46:30 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
System Monitoring Compounds							
1) S Tetrachloro-m-xy	5.79	5.64	44632	38061	9.745	9.863	
Spiked Amount 50.000 Range 30 - 160 Recovery =					19.49%#	19.73%#	
29) SC Decachlorobiphen	15.48	14.35	16617	17529	8.009	8.001	
Spiked Amount 50.000 Range 30 - 160 Recovery =					16.02%#	16.00%#	
Target Compounds							
2) alpha-BHC	6.96	7.07	85033	68506	11.616	11.433	
gamma-BHC (Linda	7.60	7.69	79929	69713	11.764	11.859	
4) beta-BHC	7.71	8.80	47516	39203	14.371	13.657	
5) Heptachlor	8.12	8.00	67033	58835	11.783	11.498	
6) delta-BHC	8.31	9.15	75554	102594	11.401	17.082	#
7) Aldrin	8.65	8.39	77885	66830	13.475	12.834	
8) Heptachlor Epoxi	9.53	9.44	88166	85675	15.581	16.897	
9) gamma-Chlordane	9.78	9.90	125614	75081	22.120	15.819	#
10) alpha-Chlordane	10.03	9.99	93835	225254	17.145	42.890	#
11) Endosulfan I	10.07	9.83	70028	68151	14.351	15.169	
12) 4,4'-DDE	10.41	10.10	80594	61234	15.142	13.981	
13) Dieldrin	10.54	10.36	68024	91001	13.221	18.213	#
14) Endrin	11.09	10.66	48107	64682	11.391	15.335	#
15) 4,4'-DDD	11.23	11.21	66354	51097	14.039	12.590	
16) Endosulfan II	11.34	11.32	59066	54458	12.860	13.134	
17) 4,4'-DDT	11.62	11.42	45955	81637	12.833	21.949	#
18) Endrin Aldehyde	11.74	11.83	13595	10103	6.724	8.063	
19) Endosulfan Sulfa	11.91	12.24	62907	43896	15.286	12.803	
20) Methoxychlor	12.84	12.18	20520	23260	12.489	12.917	
21) Endrin Ketone	13.08	12.80	49068	43695	13.476	13.214	
Sum Chlordane-A			0	0	N.D.	N.D.	
Average Chlordane-A					0.000	0.000	

000133

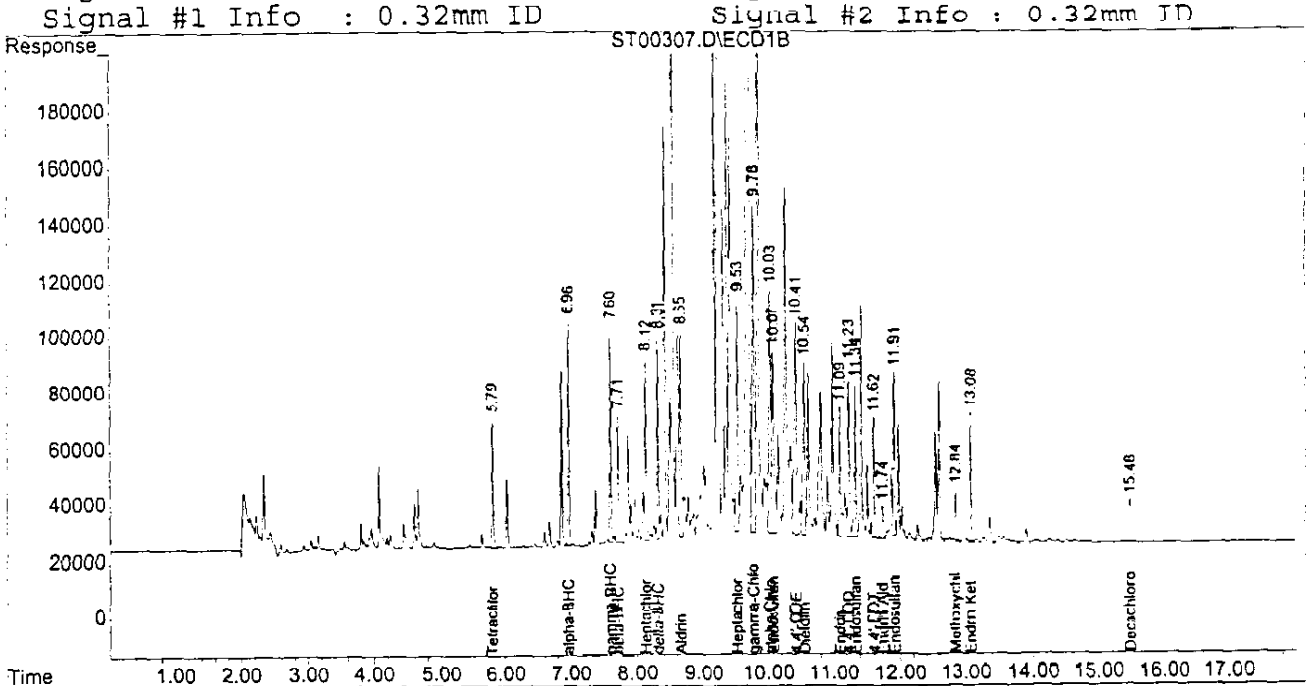
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

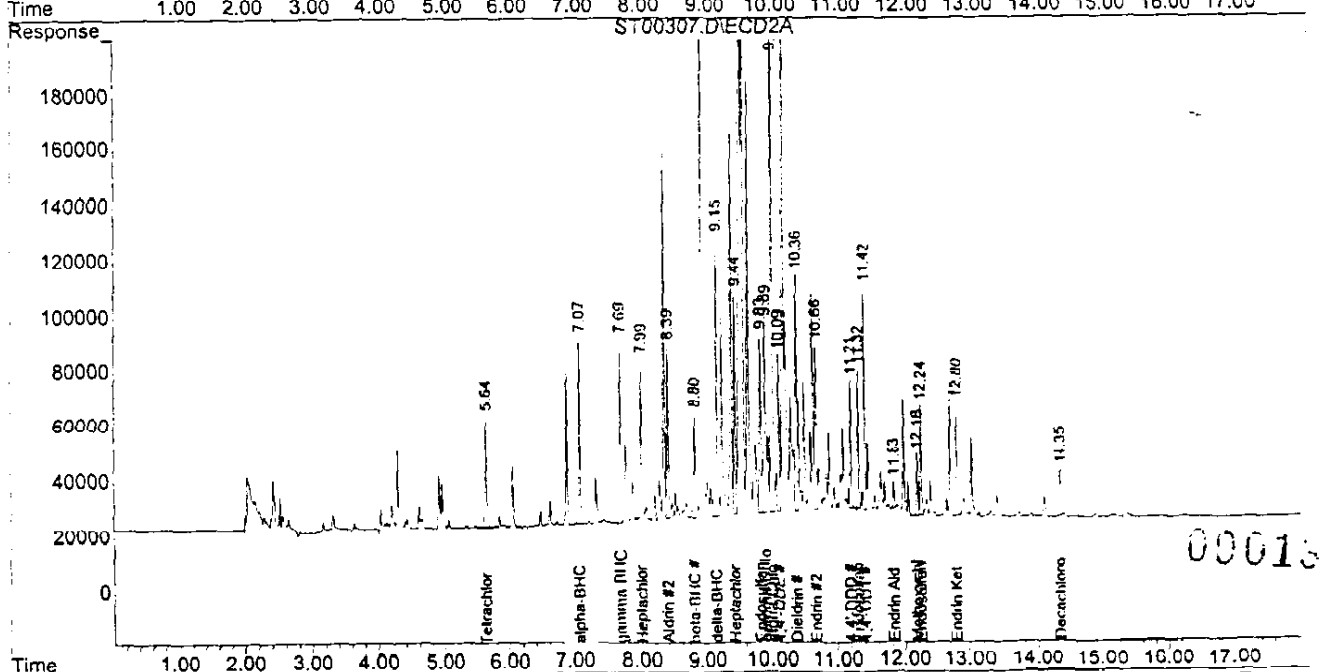
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0901PEST\ST00307.D\ECD1B.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\0901PEST\ST00307.D\ECD2A.CH
Acq On : 9-1-99 4:12:36 PM Operator: stephw
Sample : op956-msd,4x Inst : ECD 3
Misc : op956,gst13,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 2 12:32 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Wed Sep 01 13:46:30 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





00013

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0901PEST\ST00307.D\ECD1B.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\0901PEST\ST00307.D\ECD2A.CH
Acq On : 9-1-99 4:12:36 PM Operator: stephw
Sample : op956-msd,4x Inst : ECD 3
Misc : op956,gst13,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 2 12:32 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Wed Sep 01 13:46:30 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	5.79	5.64	44568	38845	9.733	10.035	
	Spiked Amount 50.000 Range 30 - 160 Recovery =					19.47%#	20.07%#	
29)	SC Decachlorobiphen	15.48	14.35	15849	16546	7.589	7.511	
	Spiked Amount 50.000 Range 30 - 160 Recovery =					15.18%#	15.02%#	
	Target Compounds							
2)	alpha-BHC	6.96	7.07	78890	66673	11.031	11.210	
	gamma-BHC (Linda	7.60	7.69	75961	65823	11.336	11.355	
4)	beta-BHC	7.71	8.80	44637	36459	13.590	12.762	
5)	Heptachlor	8.12	7.99	64181	55968	11.409	11.069	
6)	delta-BHC	8.31	9.15	71103	100027	10.940	16.733	#
7)	Aldrin	8.65	8.39	72212	61700	12.698	12.053	
8)	Heptachlor Epoxi	9.53	9.44	82761	79281	14.768	15.820	
9)	gamma-Chlordane	9.78	9.89	116514	68161	20.735	14.607	#
10)	alpha-Chlordane	10.03	9.99	87411	220276	16.134	41.989	#
11)	Endosulfan I	10.07	9.83	65283	63873	13.539	14.345	
12)	4,4'-DDE	10.41	10.09	76403	57545	14.511	13.329	
13)	Dieldrin	10.54	10.36	62170	86166	12.352	17.390	#
14)	Endrin	11.09	10.66	46620	60401	11.117	14.483	#
15)	4,4'-DDD	11.23	11.21	61851	46657	13.263	11.689	
16)	Endosulfan II	11.34	11.32	55461	50685	12.201	12.386	
17)	4,4'-DDT	11.62	11.42	43270	80566	12.302	21.700	#
18)	Endrin Aldehyde	11.74	11.83	12606	9586	6.392	7.752	
19)	Endosulfan Sulfa	11.91	12.24	58808	40068	14.430	11.853	
20)	Methoxychlor	12.84	12.18	18991	22408	11.673	12.482	
21)	Endrin Ketone	13.08	12.80	46244	41110	12.840	12.527	
	Sum Chlordane-A			0	0	N.D.	N.D.	
	Average Chlordane-A					0.000	0.000	

000135

(f)=RT Delta-> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

METHOD BLANK SUMMARY

SGC.04

Method Blank Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP956-MB5	ST00704.D	1	09/27/99	SKW	09/27/99	OP956	GST28

The QC reported here applies to the following samples: **Method:** SW846 3510C/8081A

F4929-1

CAS No.	Compound	Result	RDL	Units	Q
309-00-2	Aldrin	ND	0.050	ug/l	
319-84-6	alpha-BHC	ND	0.050	ug/l	
319-85-7	beta-BHC	ND	0.050	ug/l	
319-86-8	delta-BHC	ND	0.050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	ug/l	
5103-71-9	alpha-Chlordane	ND	0.10	ug/l	
5103-74-2	gamma-Chlordane	ND	0.10	ug/l	
60-57-1	Dieldrin	ND	0.050	ug/l	
72-54-8	4,4'-DDD	ND	0.10	ug/l	
72-55-9	4,4'-DDE	ND	0.10	ug/l	
50-29-3	4,4'-DDT	ND	0.10	ug/l	
72-20-8	Endrin	ND	0.10	ug/l	
1031 07-8	Endosulfan sulfate	ND	0.10	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	ug/l	
53494-70-5	Endrin ketone	ND	0.10	ug/l	
959-98-8	Endosulfan-I	ND	0.050	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	ug/l	
76-44-8	Heptachlor	ND	0.050	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	ug/l	
72-43-5	Methoxychlor	ND	0.20	ug/l	
8001-35-2	Toxaphene	ND	2.5	ug/l	

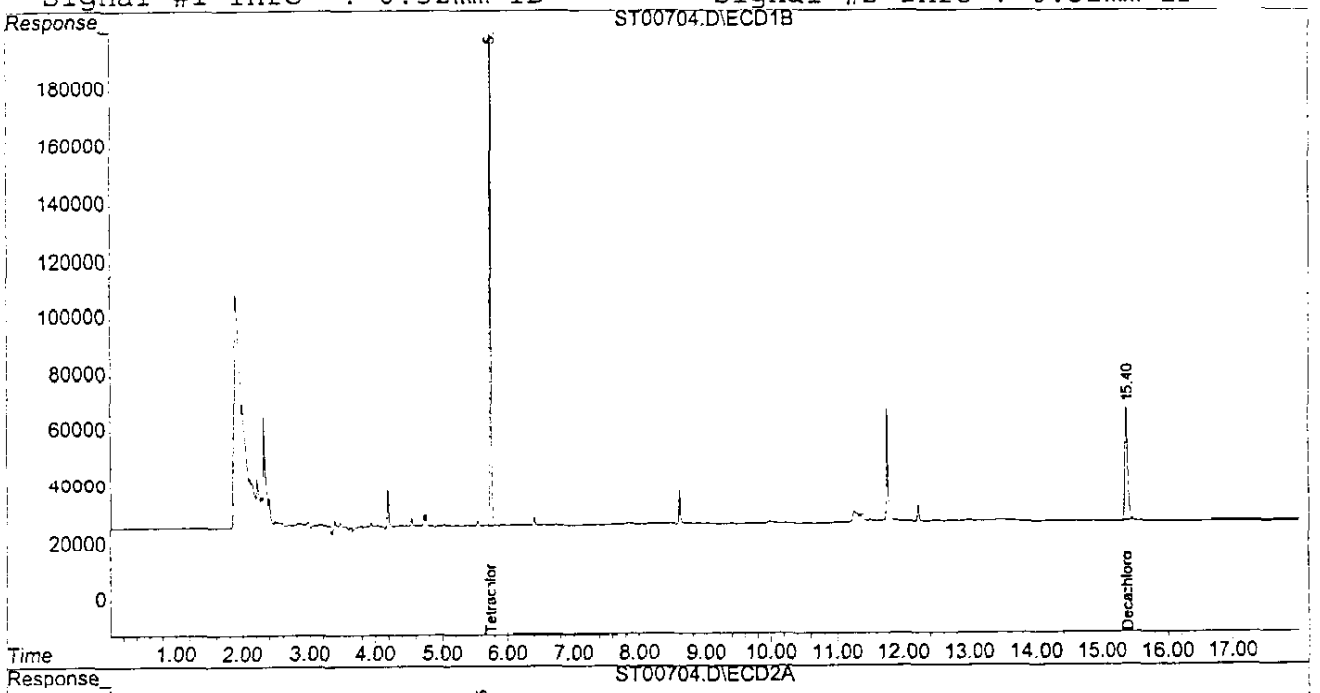
CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	70%	30-160%
2051-24-3	Decachlorobiphenyl	41%	30-160%

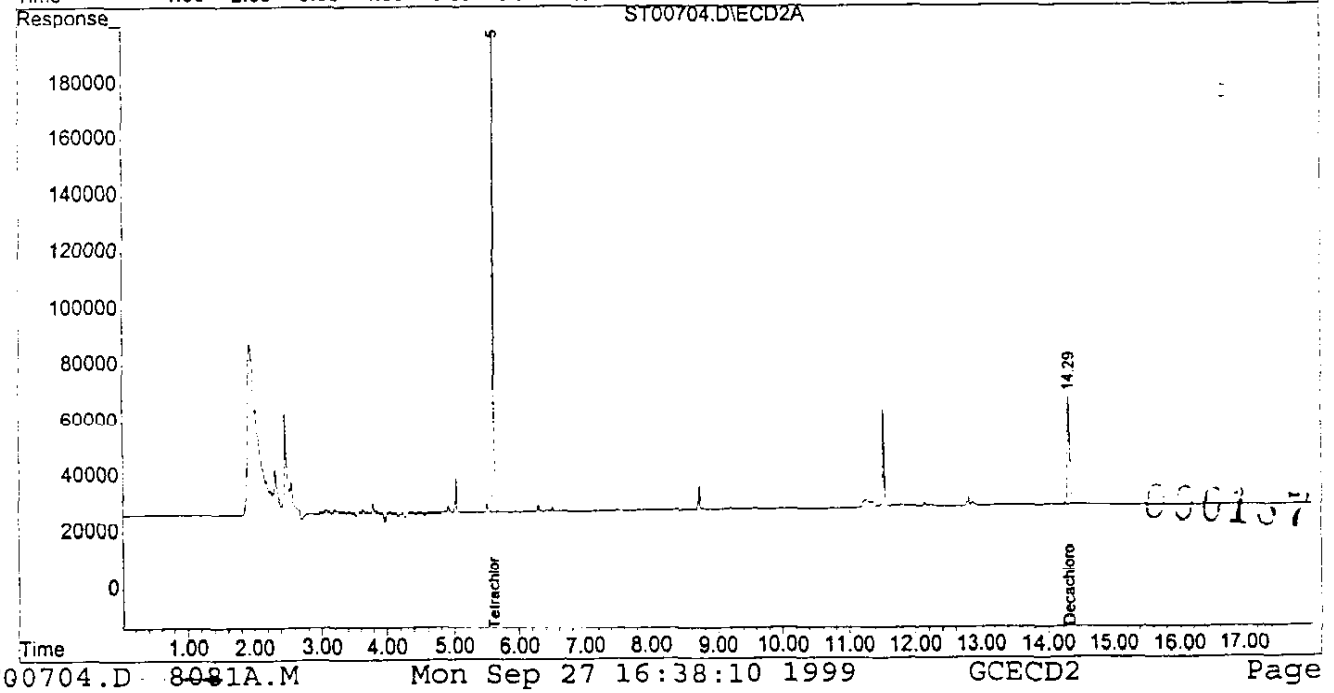
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00704.D\ECD1B.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00704.D\ECD2A.CH
Acq On : 9-27-99 3:05:25 PM Operator: stephw
Sample : op956-mb5 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 15:42 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000157

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00704.D\ECD1B.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00704.D\ECD2A.CH
Acq On : 9-27-99 3:05:25 PM Operator: stephw
Sample : op956-mb5 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 15:42 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.75	5.61	220319	184661	34.907	34.413
Spiked Amount 50.000 Range 30 - 160 Recovery =					69.81%	68.83%
9) SC Decachlorobiphen	15.40	14.29	39873	38912	20.354	19.815
Spiked Amount 50.000 Range 30 - 160 Recovery =					40.71%	39.63%
Target Compounds						
Sum Chlordane-A			0	0	N.D.	N.D.
Average Chlordane-A					0.000	0.000

000153

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

INITIAL CALIBRATION SUMMARY

SGC.05

Response Factor Report ECD 3

Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999

RSD <20% SN

Calibration Files
5 =ST00697.D 10 =ST00698.D 20 =ST00699.D
40 =ST00696.D 60 =ST00700.D 80 =ST00701.D

		Compound	5	10	20	40	60	80	Avg		%RSD
1)	S	Tetrachloro-m-xylen	5.356	6.148	6.266	6.782	6.504	6.813	6.312	E3	8.53
2)		alpha-BHC		0.876	0.981	1.053	1.141	1.179	1.046	E4	11.70
3)		gamma-BHC (Lindane)	0.665	0.811	0.878	0.974	1.017	1.031	0.896	E4	15.77
4)		beta-BHC	3.527	3.920	3.922	3.990	4.168	4.148	3.946	E3	5.88
5)		Heptachlor	5.877	6.732	7.437	7.658	8.389	8.623	7.453	E3	13.80
6)		delta-BHC		6.944	7.858	8.931	9.261	9.842	8.567	E3	13.53
7)		Aldrin	5.420	6.293	7.055	7.541	8.031	8.071	7.068	E3	14.80
8)		Heptachlor Epoxide	5.412	6.101	6.593	6.803	7.429	7.460	6.633	E3	11.91
9)		gamma-Chlordane	5.090	5.765	6.319	6.792	7.068	7.445	6.413	E3	13.62
10)		alpha-Chlordane	5.403	5.918	6.436	6.525	6.991	7.026	6.383	E3	9.86
11)		Endosulfan I	4.797	5.569	6.039	6.266	6.532	6.666	5.978	E3	11.66
12)		4,4'-DDE	4.556	5.416	6.059	6.452	7.200	7.519	6.201	E3	17.87
13)		Dieldrin	4.988	5.782	6.366	6.668	7.139	7.138	6.347	E3	13.23
14)		Endrin	4.228	4.939	5.034	5.535	5.976	6.178	5.315	E3	13.65
15)		4,4'-DDD	4.173	4.649	5.286	5.337	5.751	6.017	5.202	E3	13.19
16)		Endosulfan II	4.895	5.353	5.561	5.639	6.254	6.186	5.648	E3	9.09
17)		4,4'-DDT	4.131	4.722	5.164	5.207	5.928	5.737	5.148	E3	12.81
		Endrin Aldehyde	3.048	3.283	3.463	3.489	3.693	3.793	3.461	E3	7.83
19)		Endosulfan Sulfate	4.465	4.756	5.085	4.939	5.373	5.318	4.989	E3	6.92
20)		Methoxychlor	1.951	2.075	2.236	2.030	2.255	2.167	2.119	E3	5.68
21)		Endrin Ketone	4.060	4.326	4.912	4.730	5.103	5.217	4.725	E3	9.57
22)	L1	Chlordane-A							2.532	E2	0.00
23)	L1	Chlordane-B							3.046	E2	0.00
24)	L1	Chlordane-C							7.121	E2	0.00
25)	L1	Chlordane-D							4.037	E2	0.00
26)	L1	Chlordane-E							5.619	E2	0.00
27)	L1	Chlordane-F							2.604	E2	0.00
28)	H	Toxaphene							7.564	E4	0.00
29)	SC	Decachlorobiphenyl	2.031	1.897	2.127	1.865	1.949	1.885	1.959	E3	5.19

Signal #2 Calibration Files
5 =ST00697.D 10 =ST00698.D 20 =ST00699.D
40 =ST00696.D 60 =ST00700.D 80 =ST00701.D

		Compound	5	10	20	40	60	80	Avg		%RSD
1)	S	Tetrachloro-m-xylen	4.786	5.335	5.417	5.526	5.370	5.762	5.366	E3	6.02
2)		alpha-BHC	6.068	7.437	8.253	8.732	9.393	9.813	8.283	E3	18.55
3)		gamma-BHC (Lindane)	5.844	6.899	7.533	8.129	8.522	8.759	7.614	E3	14.45
4)		beta-BHC	3.176	3.507	3.509	3.440	3.643	3.629	3.484	E3	4.88
5)		Heptachlor	5.520	6.215	6.722	6.828	7.403	7.411	6.683	E3	10.88
6)		delta-BHC	4.943	5.732	6.541	6.925	7.716	7.908	6.628	E3	17.28
7)		Aldrin	5.068	5.900	6.314	6.713	7.054	7.205	6.376	E3	12.55
		Heptachlor Epoxide	5.060	5.480	5.781	5.902	6.282	6.313	5.803	E3	8.28
9)		gamma-Chlordane	4.549	5.099	5.458	5.604	5.957	6.096	5.461	E3	10.46

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report ECD 3

Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999

Calibration Files
5 =ST00697.D 10 =ST00698.D 20 =ST00699.D
40 =ST00696.D 60 =ST00700.D 80 =ST00701.D

		Compound	5	10	20	40	60	80	Avg		%RSD
10)		alpha-Chlordane	4.664	5.252	5.484	5.596	6.007	5.977	5.496	E3	9.11
11)		Endosulfan I	4.391	4.905	5.077	5.273	5.559	5.627	5.139	E3	8.92
12)		4,4'-DDE	3.850	4.556	5.163	5.364	5.843	6.011	5.131	E3	15.85
13)		Dieldrin	4.542	5.157	5.538	5.773	6.220	6.282	5.585	E3	11.87
14)		Endrin	3.865	4.284	4.557	4.757	5.055	5.129	4.608	E3	10.42
15)		4,4'-DDD	3.441	3.980	4.324	4.385	4.870	4.950	4.325	E3	13.05
16)		Endosulfan II	4.414	4.735	4.982	4.973	5.332	5.367	4.967	E3	7.28
17)		4,4'-DDT	3.578	3.628	4.108	4.128	4.599	4.633	4.112	E3	11.03
18)		Endrin Aldehyde	1.794	1.978	2.070	2.031	2.126	2.171	2.028	E3	6.59
19)		Endosulfan Sulfate	3.729	3.969	4.169	4.023	4.338	4.282	4.085	E3	5.51
20)		Methoxychlor	1.932	2.012	2.245	2.063	2.109	2.127	2.081	E3	5.13
21)		Endrin Ketone	3.590	3.838	4.119	4.025	4.288	4.292	4.025	E3	6.79
22)	L1	Chlordane-A							2.124	E2	0.00
23)	L1	Chlordane-B							2.803	E2	0.00
24)	L1	Chlordane-C							5.890	E2	0.00
25)	L1	Chlordane-D							5.120	E2	0.00
26)	L1	Chlordane-E							3.500	E2	0.00
[illegible]	L1	Chlordane-F							2.095	E2	0.00
28)	H	Toxaphene							6.336	E4	0.00
29)	SC	Decachlorobiphenyl	2.045	1.916	2.179	1.846	1.929	1.868	1.964	E3	6.42

000140

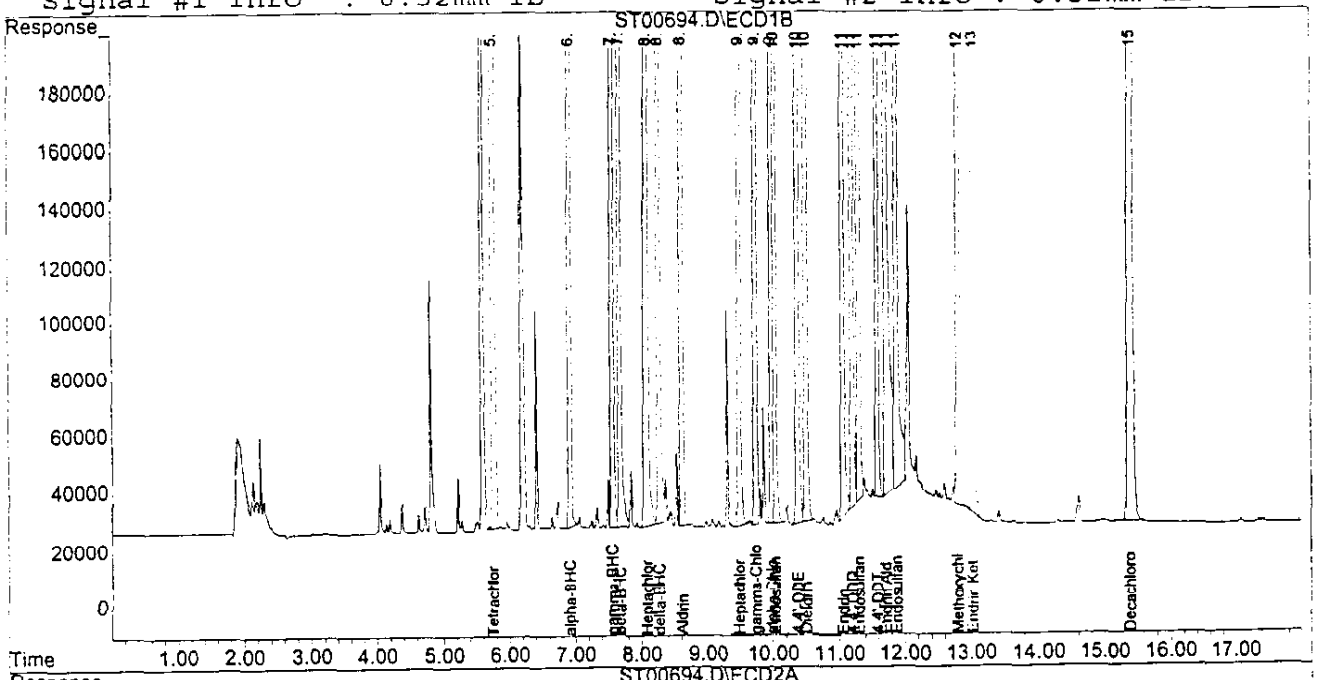
(#) = Out of Range ### Number of calibration levels exceeded format ###

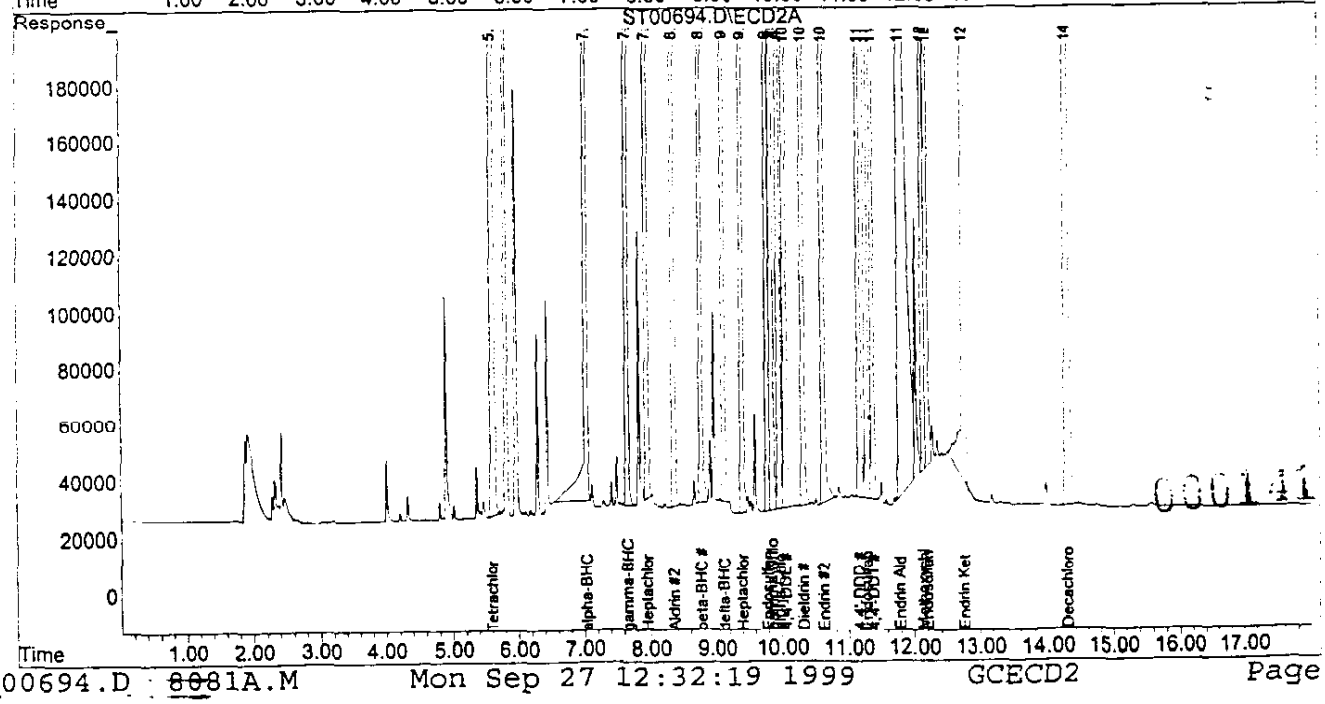
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00694.D\ECD1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00694.D\ECD2A.CH
Acq On : 9-27-99 8:47:44 AM Operator: stephw
Sample : cond std Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:08 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00694.D\ECD1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00694.D\ECD2A.CH
Acq On : 9-27-99 8:47:44 AM Operator: stephw
Sample : cond std Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:08 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.75	5.60	6099504	5130756	910.897	921.091
	Spiked Amount 50.000 Range 30 - 160 Recovery =					1821.79%#	1842.18%#
29)	SC Decachlorobiphen	15.40	14.29	1918757	1843506	1022.808	993.057
	Spiked Amount 50.000 Range 30 - 160 Recovery =					2045.62%#	1986.11%#
	Target Compounds						
3)	alpha-BHC	6.92	7.04	10252574	8590395	885.033	861.346
	gamma-BHC (Linda	7.56	7.66	9149243	7904040	829.351	872.779
4)	beta-BHC	7.68	8.77	4348574	3682292	962.938	959.796
5)	Heptachlor	8.08	7.96	7171497	6219475	894.560	912.382
6)	delta-BHC	8.27	9.11	7515712	6085627	761.954	715.960
7)	Aldrin	8.61	8.36	7091274	6048648	794.213	905.910
8)	Heptachlor Epoxi	9.49	9.40	6663679	5556950	907.950	906.782
9)	gamma-Chlordanc	9.74	9.86	6866711	5875901	962.733	988.310
10)	alpha-Chlordane	9.99	9.97	6652983	5888362	935.587	984.957
11)	Endosulfan I	10.03	9.79	5990710	5052151	917.258	916.950
12)	4,4'-DDE	10.37	10.06	6886904	5682579	856.333	898.172
13)	Dieldrin	10.50	10.32	6576303	5714543	832.678	952.556
14)	Endrin	11.06	10.62	5871851	4998485	1138.459	1136.642
15)	4,4'-DDD	11.20	11.17	5777566	4848220	858.636	1016.474
16)	Endosulfan II	11.30	11.28	5945090	4991959	969.503	955.140
17)	4,4'-DDT	11.59	11.38	6302482	4915976	1110.947	1099.459
18)	Endrin Aldehyde	11.72	11.79	3899150	2320803	899.484	943.492
19)	Endosulfan Sulfa	11.88	12.20	4681872	3712502	819.097	807.689
20)	Methoxychlor	12.80	12.14	2339339	2254542	1034.907	1024.143
21)	Endrin Ketone	13.03	12.76	5032275	4134598	964.305	929.350
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000142

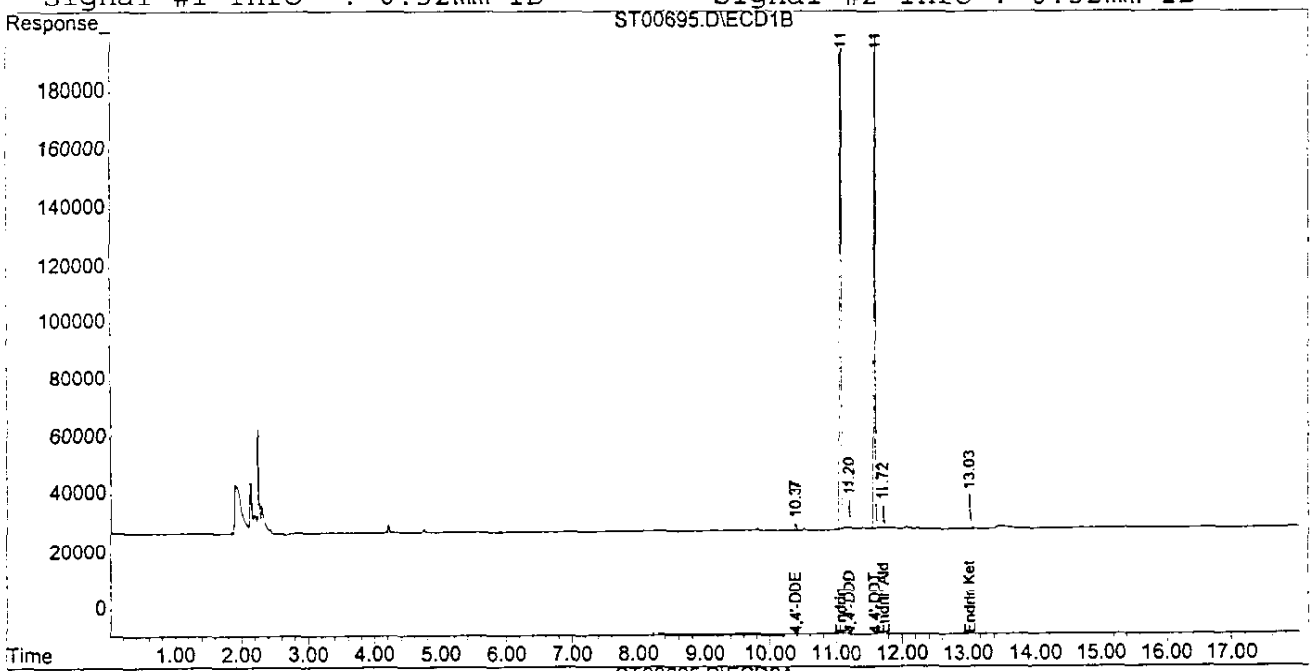
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

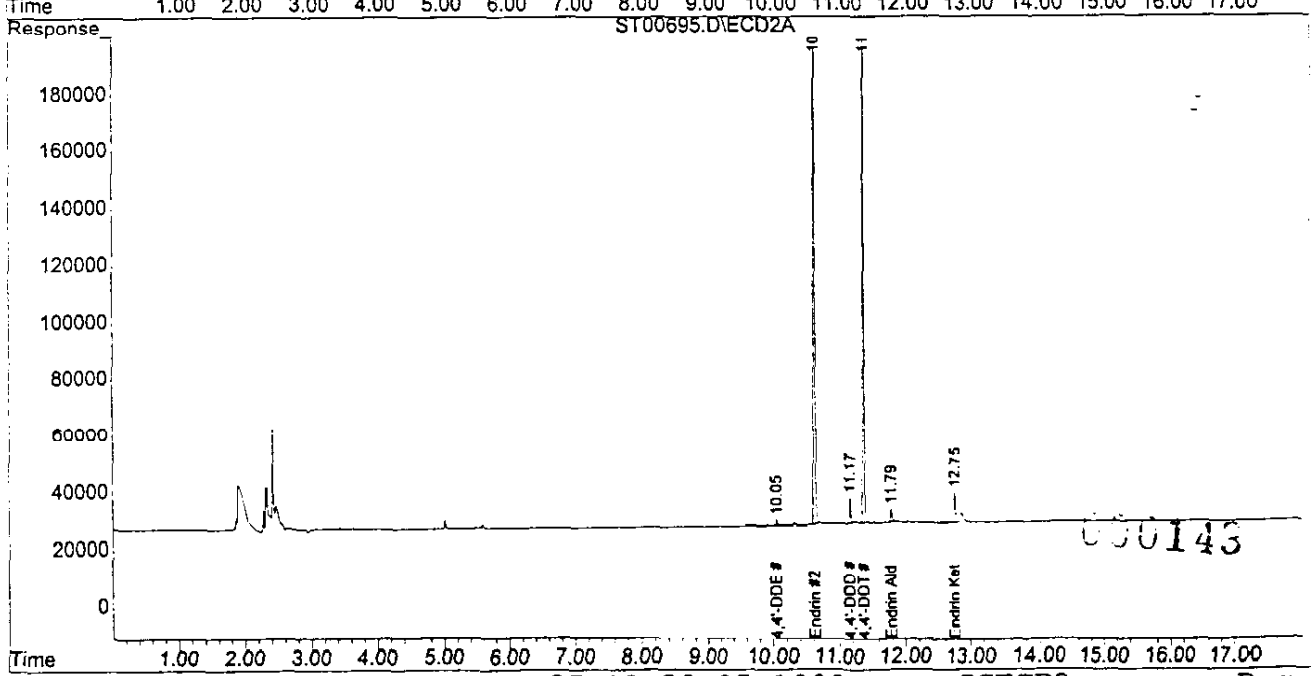
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00695.D\ECD1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00695.D\ECD2A.CH
Acq On : 9-27-99 9:08:56 AM Operator: stephw
Sample : ddt/endrin breakdown p458 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:09 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000143

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00695.D\ECD1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00695.D\ECD2A.CH
Acq On : 9-27-99 9:08:56 AM Operator: stephw
Sample : ddt/endrin breakdown p458 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:09 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
	Target Compounds						
.2)	4,4'-DDE	10.37	10.05	2348	1964	0.292m	0.310m
4)	Endrin	11.06	10.62	272408	236202	52.816	53.712
.5)	4,4'-DDD	11.20	11.17	9392	8723	1.396	1.829 #
.7)	4,4'-DDT	11.59	11.38	264227	207056	46.576	46.308
.8)	Endrin Aldehyde	11.72	11.79	7643	4520	1.763	1.838m
21	Endrin Ketone	13.03	12.75	11897	10317	2.280	2.319
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

Endrin = 6.7%, 5.9%

DDT = 4.3%, 4.9%

000144

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Endrin & DDT Column Breakdown

Data File:	ST00695	Inst.:	ST
Date of Analysis	9/27/99	Time of Analysis	9:08

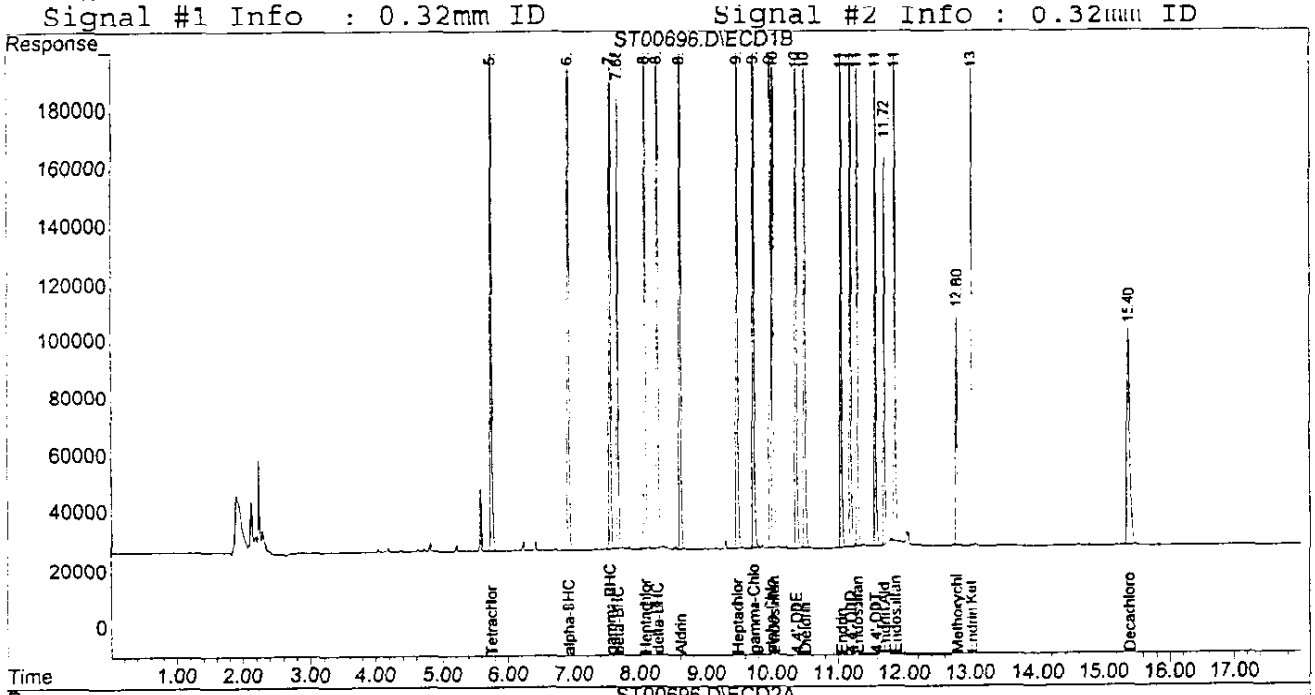
	Column 1		Column 2
Endrin	6.7		5.9
DDT	4.3		4.9

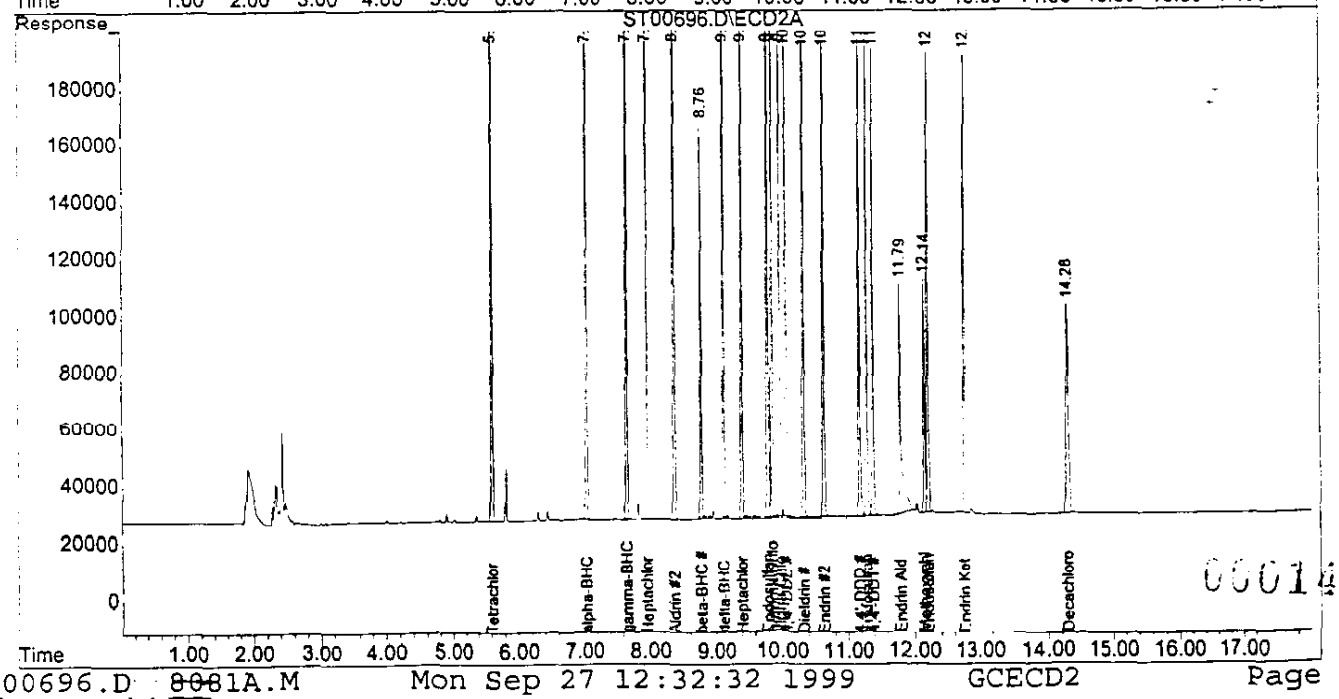
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00696.D\ECD1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00696.D\ECD2A.CH
Acq On : 9-27-99 9:30:04 AM Operator: stephw
Sample : 40ppb pest ccv p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:09 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000146

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00696.D\ECD1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00696.D\ECD2A.CH
Acq On : 9-27-99 9:30:04 AM Operator: stephw
Sample : 40ppb pest ccv p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:09 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

recal

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.76	5.60	271267	221042	40.511	39.682
	Spiked Amount 50.000 Range 30 - 160 Recovery =					81.02%	79.36%
29)	SC Decachlorobiphen	15.40	14.28	74582	73827	39.756	39.769
	Spiked Amount 50.000 Range 30 - 160 Recovery =					79.51%	79.54%
	Target Compounds						
2)	alpha-BHC	6.92	7.03	421006	349273	36.343	35.021
	gamma-BHC (Linda	7.57	7.65	389566	325165	35.313	35.905
4)	beta-BHC	7.68	8.76	159620	137593	35.346	35.864
5)	Heptachlor	8.09	7.95	306333	273116	38.211	40.065
6)	delta-BHC	8.27	9.11	357240	277000	36.218	32.588
7)	Aldrin	8.61	8.35	301636	268503	33.783	40.214
8)	Heptachlor Epoxi	9.49	9.40	272103	236065	37.075	38.521
9)	gamma-Chlordane	9.74	9.85	271692	224170	38.092	37.705
10)	alpha-Chlordane	9.99	9.96	260998	223833	36.703	37.441
11)	Endosulfan I	10.04	9.79	250649	210920	38.378	38.281
12)	4,4'-DDE	10.38	10.05	258095	214544	32.092	33.910
13)	Dieldrin	10.51	10.32	266732	230905	33.773	38.490
14)	Endrin	11.06	10.62	221410	190275	42.928	43.268
15)	4,4'-DDD	11.20	11.17	213485	175398	31.727	36.774
16)	Endosulfan II	11.31	11.28	225549	198907	36.782	38.058
17)	4,4'-DDT	11.59	11.38	208294	165124	36.716	36.930
18)	Endrin Aldehyde	11.72	11.79	139566	81260	32.196	33.035
19)	Endosulfan Sulfa	11.88	12.19	197551	160924	34.562	35.011
20)	Methoxychlor	12.80	12.14	81204	82533	35.924	37.491
21)	Endrin Ketone	13.03	12.75	189188	161002	36.253	36.189
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000147

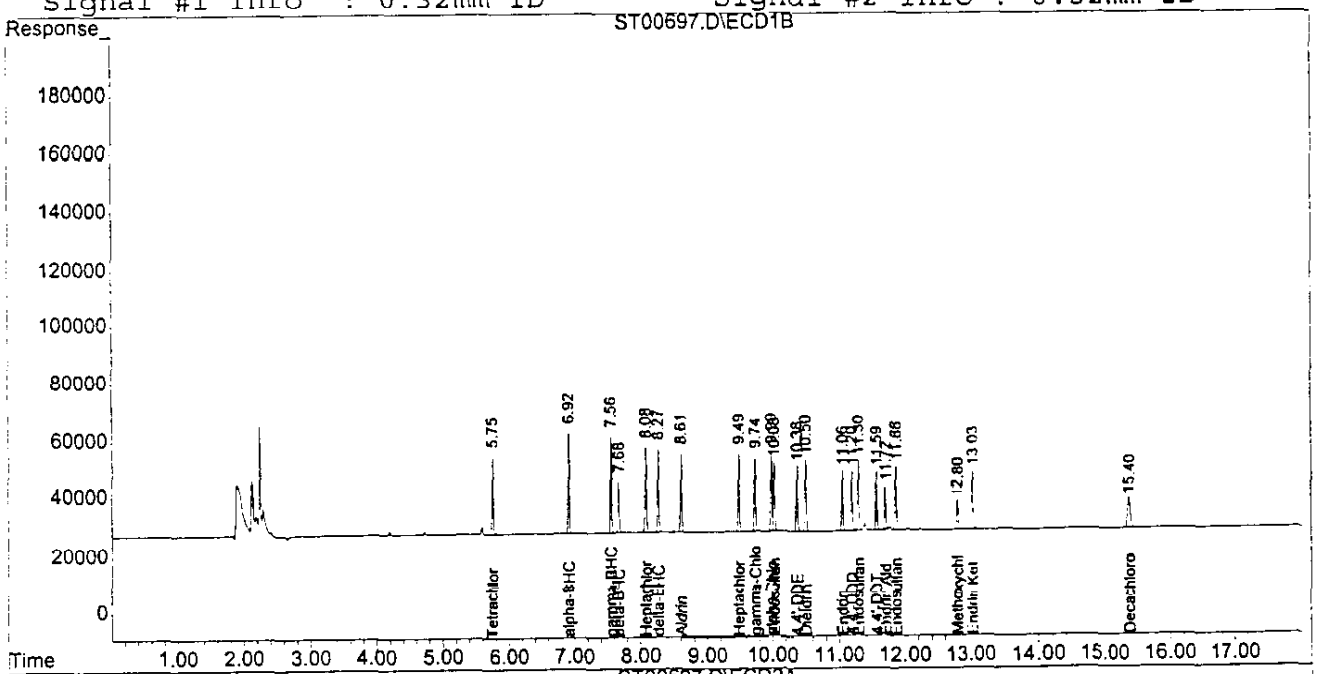
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

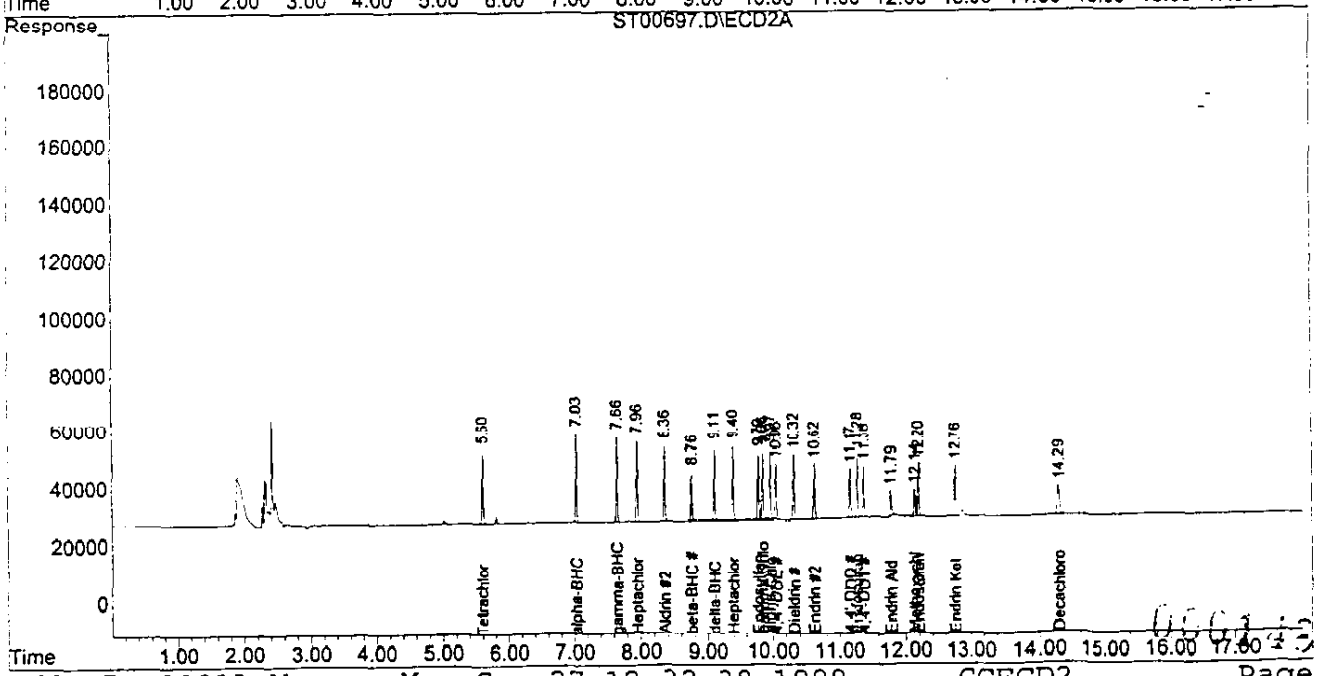
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00697.D\ECD1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00697.D\ECD2A.CH
Acq On : 9-27-99 9:59:22 AM Operator: stephw
Sample : 5ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:10 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:09:32 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00697.D\ECD1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00697.D\ECD2A.CH
Acq On : 9-27-99 9:59:22 AM Operator: stephw
Sample : 5ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:10 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:09:32 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.75	5.61	26781	23931	4.043	4.327
	Spiked Amount 50.000 Range 30 - 160 Recovery =					8.09%#	8.65%#
29)	SC Decachlorobiphen	15.40	14.29	10156	10225	5.447	5.532
	Spiked Amount 50.000 Range 30 - 160 Recovery =					10.89%#	11.06%#
	Target Compounds						
2)	alpha-BHC	6.92	7.03	34660	30338	3.058	3.070
3)	gamma-BHC (Linda	7.56	7.66	33248	29219	3.034	3.246
4)	beta-BHC	7.68	8.76	17635	15880	4.006	4.206
5)	Heptachlor	8.08	7.96	29385	27599	3.746	4.082
6)	delta-BHC	8.27	9.11	28658	24716	2.981	2.946
7)	Aldrin	8.61	8.36	27102	25342	3.074	3.842 #
8)	Heptachlor Epoxi	9.49	9.40	27062	25301	3.759	4.180
9)	gamma-Chlordane	9.74	9.86	25451	22747	3.613	3.880
10)	alpha-Chlordane	9.99	9.97	27015	23320	3.886	3.962
11)	Endosulfan I	10.04	9.79	23986	21957	3.724	4.036
12)	4,4'-DDE	10.38	10.06	22782	19250	2.883	3.081
13)	Dieldrin	10.50	10.32	24939	22709	3.205	3.835
14)	Endrin	11.06	10.62	21138	19326	4.104	4.401
15)	4,4'-DDD	11.20	11.17	20866	17204	3.158	3.689
16)	Endosulfan II	11.31	11.28	24477	22068	4.063	4.275
17)	4,4'-DDT	11.59	11.38	20654	17888	3.729	4.065
18)	Endrin Aldehyde	11.72	11.79	15239	8968	3.619	3.761
19)	Endosulfan Sulfa	11.88	12.20	22325	18647	4.014	4.147
20)	Methoxychlor	12.80	12.14	9756	9659	4.414	4.458
21)	Endrin Ketone	13.03	12.76	20300	17948	3.953	4.102
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

00012

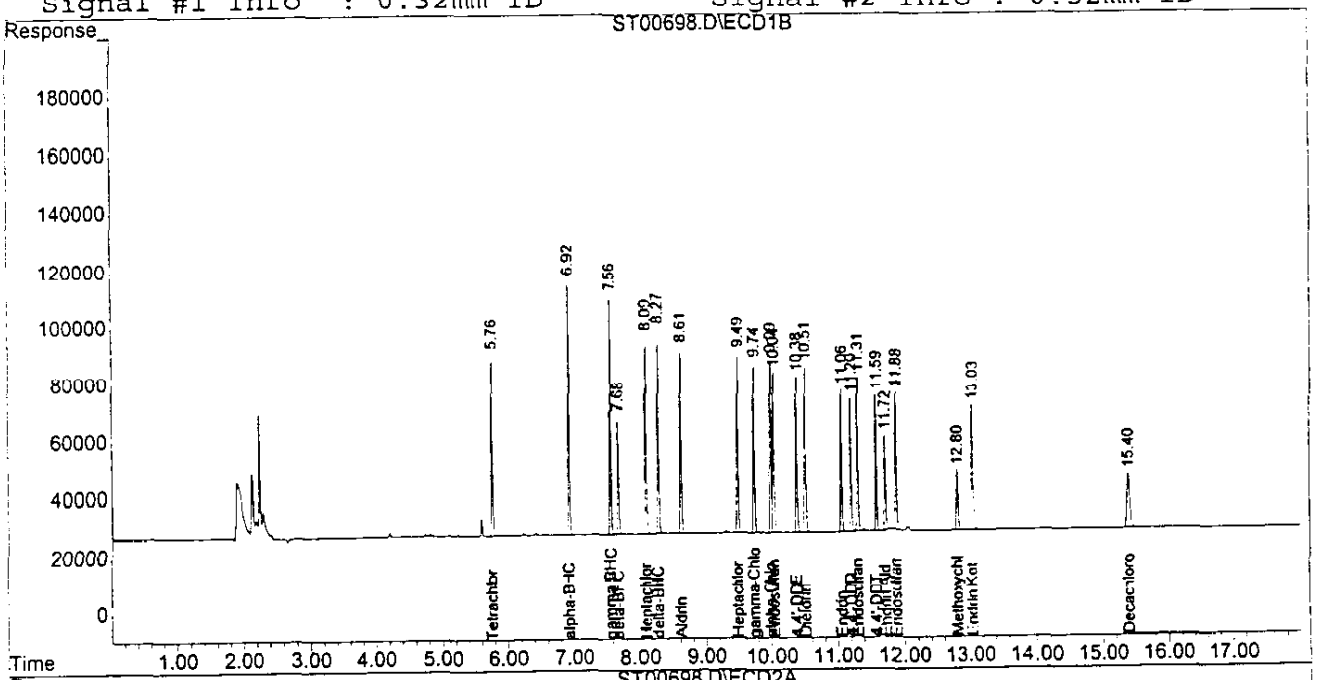
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

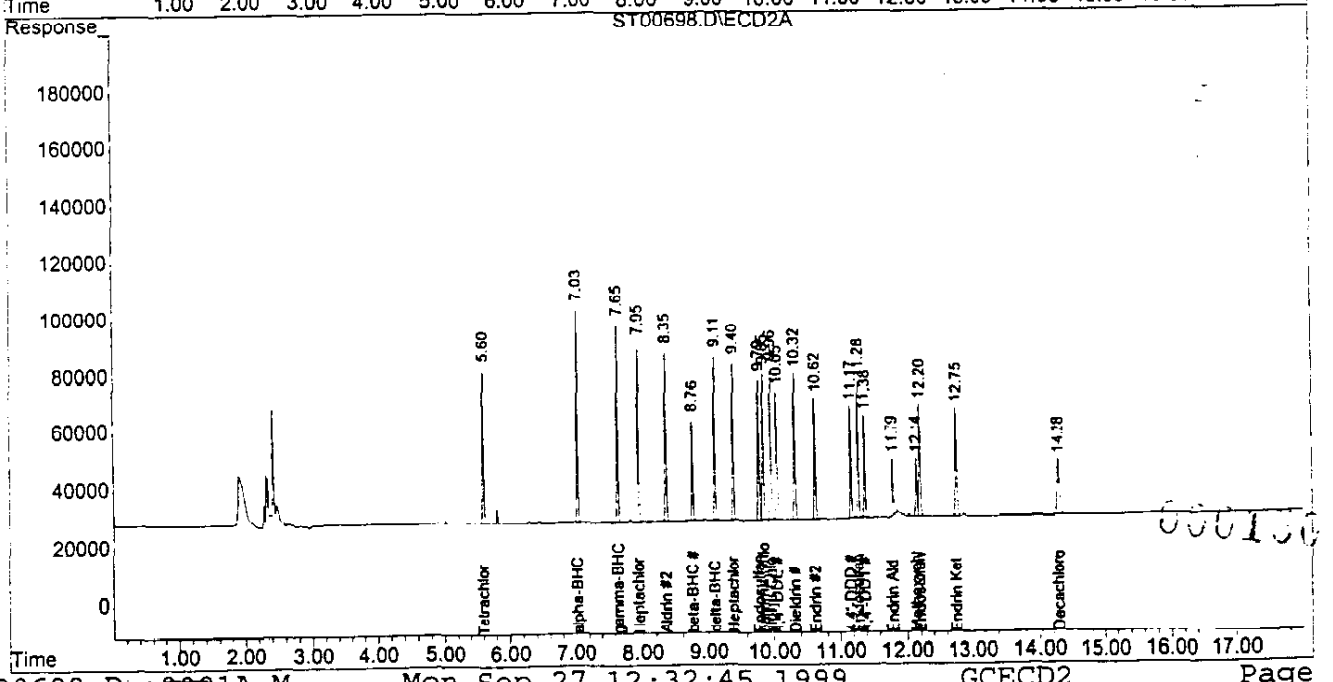
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00698.D\ECD1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00698.D\ECD2A.CH
Acq On : 9-27-99 10:20:31 AM Operator: stephw
Sample : 10ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:10 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:10:25 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00698.D\ECD1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00698.D\ECD2A.CH
Acq On : 9-27-99 10:20:31 AM Operator: stephw
Sample : 10ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:10 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:10:25 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.76	5.60	61482	53352	9.247	9.640
	Spiked Amount 50.000 Range 30 - 160 Recovery =					18.49%#	19.28%#
29)	SC Decachlorobiphen	15.40	14.28	18975	19156	9.989	10.126
	Spiked Amount 50.000 Range 30 - 160 Recovery =					19.98%#	20.25%#
	Target Compounds						
	alpha-BHC	6.92	7.03	87589	74369	7.727	7.525
	gamma-BHC (Linda	7.57	7.65	81110	68992	7.401	7.665
4)	beta-BHC	7.68	8.76	39195	35068	8.992	9.364
5)	Heptachlor	8.09	7.95	67325	62147	8.615	9.149
6)	delta-BHC	8.27	9.11	69445	57324	7.223	6.833
7)	Aldrin	8.61	8.35	62928	58996	7.137	8.934 #
8)	Heptachlor Epoxi	9.49	9.40	61006	54802	8.543	9.025
9)	gamma-Chlordane	9.74	9.85	57653	50993	8.237	8.735
10)	alpha-Chlordane	9.99	9.96	59184	52518	8.516	8.973
11)	Endosulfan I	10.04	9.79	55688	49050	8.709	9.052
12)	4,4'-DDE	10.38	10.05	54163	45560	6.854	7.292
13)	Dieldrin	10.51	10.32	57818	51572	7.432	8.755
14)	Endrin	11.06	10.62	49393	42836	9.549	9.626
15)	4,4'-DDD	11.20	11.17	46494	39803	7.037	8.575
16)	Endosulfan II	11.31	11.28	53533	47348	8.944	9.150
17)	4,4'-DDT	11.59	11.38	47221	36283	8.560	8.260
18)	Endrin Aldehyde	11.72	11.79	32826	19781	7.977	8.421
19)	Endosulfan Sulfa	11.88	12.20	47557	39685	8.630	8.912
20)	Methoxychlor	12.80	12.14	20752	20123	9.410	9.275
21)	Endrin Ketone	13.03	12.75	43256	38376	8.495	8.809
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000151

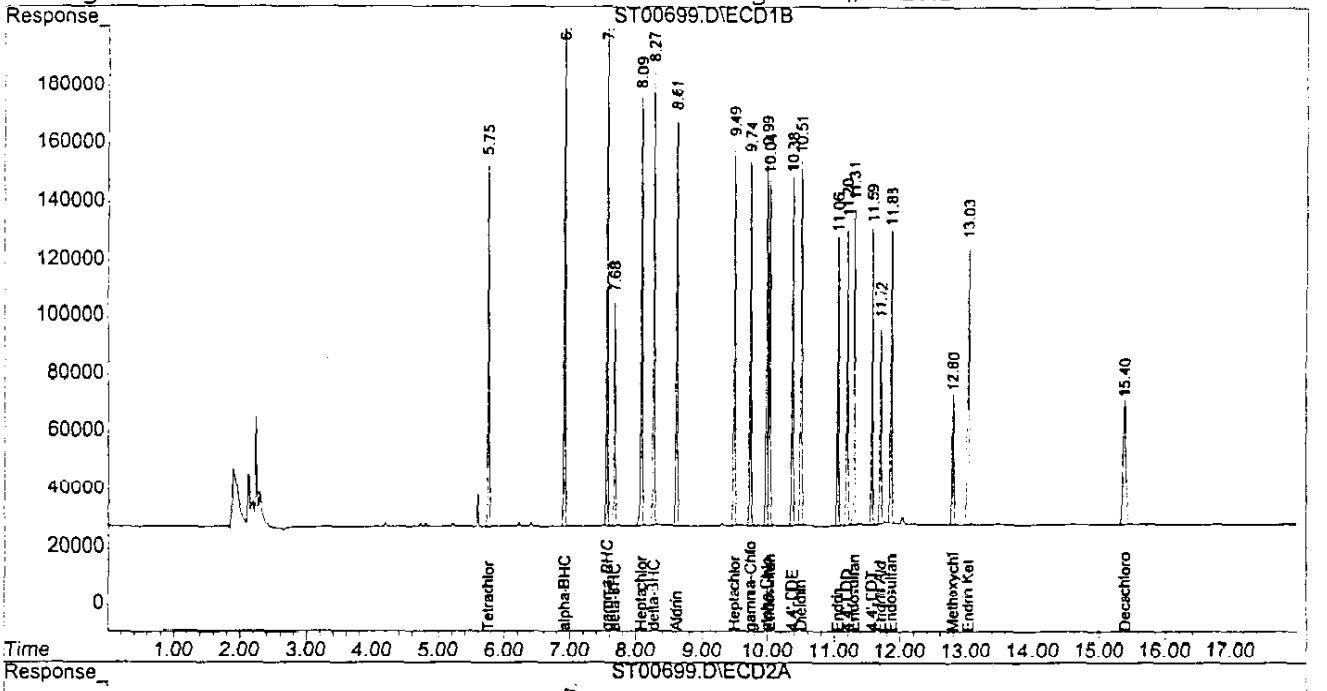
(f)=RT Delta-> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

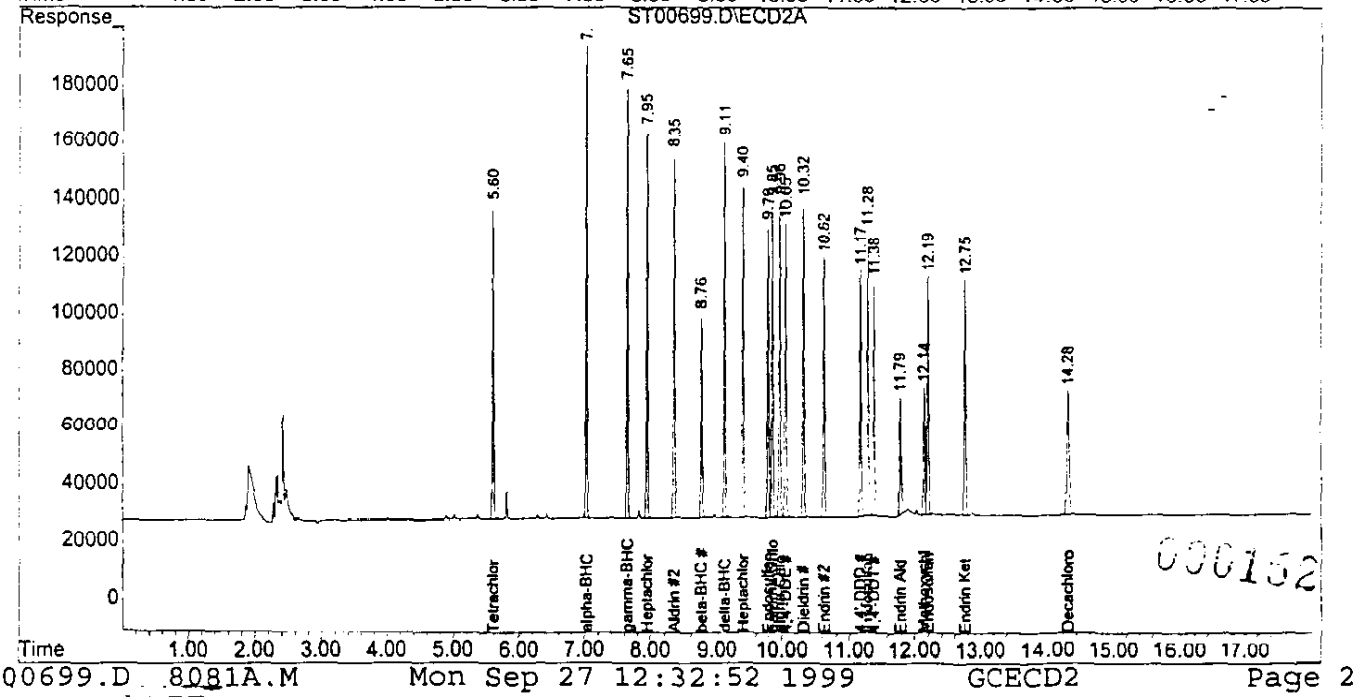
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00699.D\ECD1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00699.D\ECD2A.CH
Acq On : 9-27-99 10:41:40 AM Operator: stephw
Sample : 20ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:11 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:10:51 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000152

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00699.D\ECD1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00699.D\ECD2A.CH
Acq On : 9-27-99 10:41:40 AM Operator: stephw
Sample : 20ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:11 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:10:51 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.76	5.60	125328	108348	19.012	19.691
Spiked Amount 50.000 Range 30 - 160 Recovery =					38.02%	39.38%
29) SC Decachlorobiphen	15.40	14.28	42531	43583	22.578	23.300
Spiked Amount 50.000 Range 30 - 160 Recovery =					45.16%	46.60%
Target Compounds						
2) alpha-BHC	6.92	7.03	196260	165062	17.552	16.705
gamma-BHC (Linda	7.57	7.65	175679	150662	16.039	16.743
4) beta-BHC	7.68	8.76	78431	70189	18.301	19.064
5) Heptachlor	8.09	7.95	148735	134442	19.221	19.826
6) delta-BHC	8.27	9.11	157161	130829	16.680	15.603
7) Aldrin	8.61	8.35	141097	126285	16.012	19.221
8) Heptachlor Epoxi	9.49	9.40	131866	115613	18.823	19.226
9) gamma-Chlordane	9.74	9.85	126388	109150	18.407	18.922
10) alpha-Chlordane	9.99	9.96	128712	109676	18.816	18.951
11) Endosulfan I	10.04	9.79	120770	101530	19.169	18.948
12) 4,4'-DDE	10.38	10.05	121181	103257	15.346	16.538
13) Dieldrin	10.51	10.32	127325	110770	16.379	18.998
14) Endrin	11.06	10.62	100680	91142	19.374	20.328
15) 4,4'-DDD	11.20	11.17	105720	86488	16.016	18.991
16) Endosulfan II	11.31	11.28	111221	99632	18.805	19.466
17) 4,4'-DDT	11.59	11.38	103288	82159	18.970	19.077
18) Endrin Aldehyde	11.72	11.79	69253	41408	17.432	18.255
19) Endosulfan Sulfa	11.88	12.19	101703	83378	18.956	19.141
20) Methoxychlor	12.80	12.14	44713	44894	20.560	21.028
21) Endrin Ketone	13.03	12.75	98249	82375	19.825	19.288
Sum Chlordane-A			0	0	N.D.	N.D.
Average Chlordane-A					0.000	0.000

000153

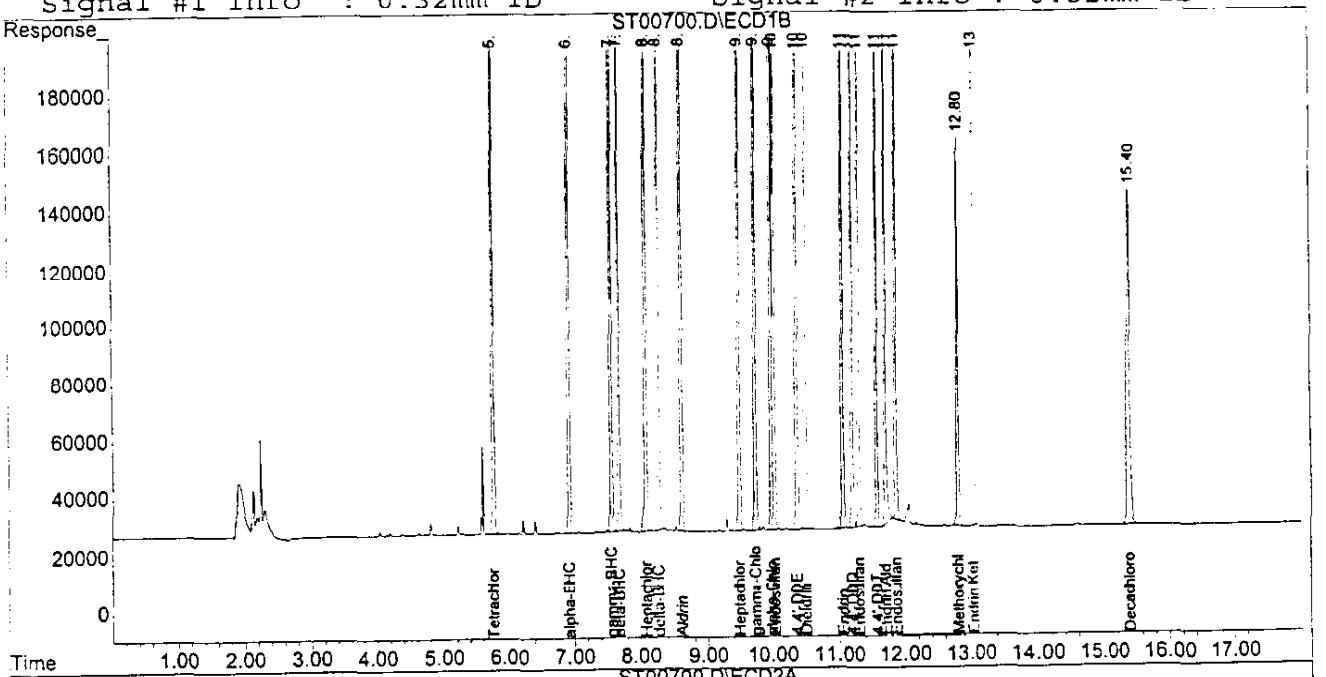
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

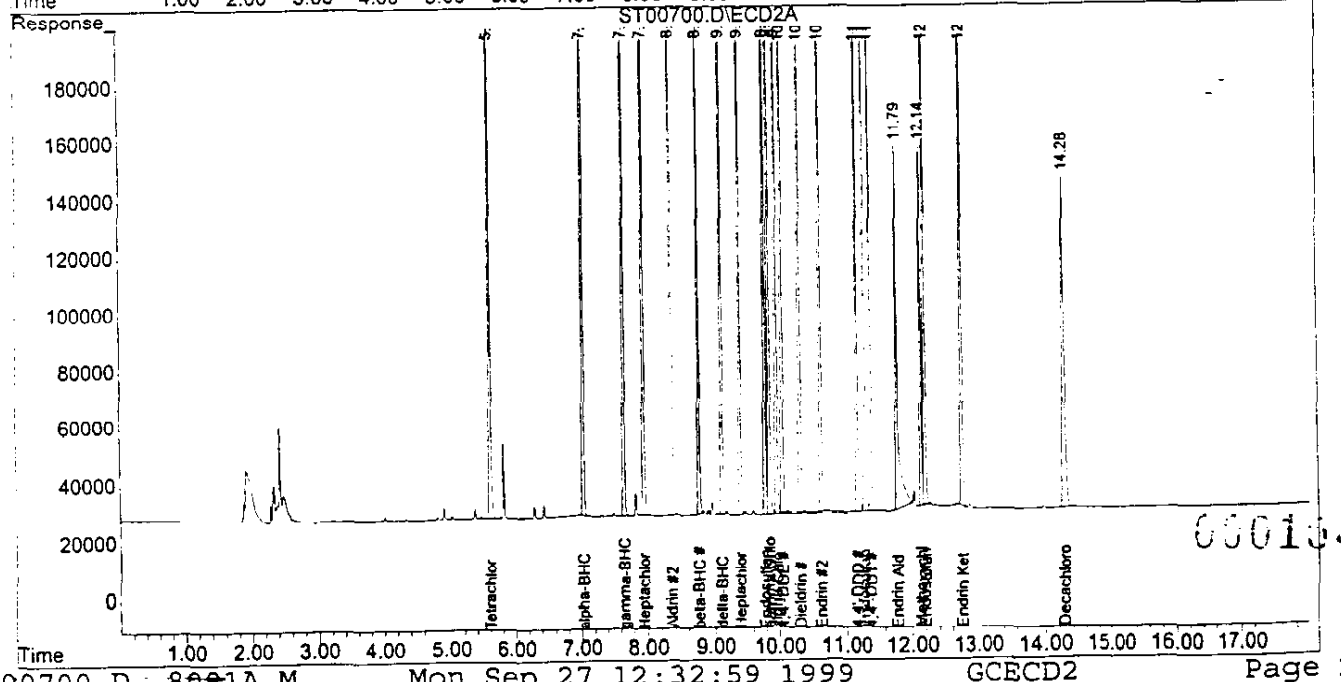
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00700.D\ECD1B.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00700.D\ECD2A.CH
Acq On : 9-27-99 11:02:55 AM Operator: stephw
Sample : 60ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:11 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:11:18 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000104

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00700.D\ECD1B.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00700.D\ECD2A.CH
Acq On : 9-27-99 11:02:55 AM Operator: stephw
Sample : 60ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:11 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:11:18 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro m-xy	5.76	5.60	390243	322182	60.065	59.043
	Spiked Amount 50.000 Range 30 - 160 Recovery =					120.13%	118.09%
29)	SC Decachlorobiphen	15.40	14.28	116961	115737	61.057	60.615
	Spiked Amount 50.000 Range 30 - 160 Recovery =					122.11%	121.23%
	Target Compounds						
2)	alpha-BHC	6.92	7.03	684737	563577	62.945	57.121
	gamma-BHC (Linda	7.57	7.65	610208	511297	55.917	56.927
4)	beta-BHC	7.68	8.76	250067	218604	60.034	60.590
5)	Heptachlor	8.09	7.95	503327	444171	65.745	65.671
6)	delta-BHC	8.27	9.11	555660	462962	60.450	55.336
7)	Aldrin	8.61	8.35	481837	423269	54.802	65.026
8)	Heptachlor Epoxi	9.49	9.40	445737	376899	64.972	63.289
9)	gamma-Chlordane	9.74	9.85	424109	357442	63.364	62.755
10)	alpha-Chlordane	9.99	9.96	419435	360391	62.295	63.365
11)	Endosulfan I	10.04	9.79	391941	333516	63.109	63.034
12)	4,4'-DDE	10.38	10.05	432000	350581	54.908	56.268
13)	Dieldrin	10.51	10.32	428358	373203	55.271	65.002
14)	Endrin	11.06	10.62	358536	303313	69.161	67.367
15)	4,4'-DDD	11.20	11.17	345072	292224	52.453	65.286
16)	Endosulfan II	11.31	11.28	375252	319897	64.345	63.071
17)	4,4'-DDT	11.59	11.38	355704	275941	65.718	64.641
18)	Endrin Aldehyde	11.72	11.79	221550	127549	58.372	58.359
19)	Endosulfan Sulfa	11.88	12.19	322389	260281	61.025	60.879
20)	Methoxychlor	12.80	12.14	135322	126565	62.557	59.450
21)	Endrin Ketone	13.03	12.75	306153	257289	62.277	61.150
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000155

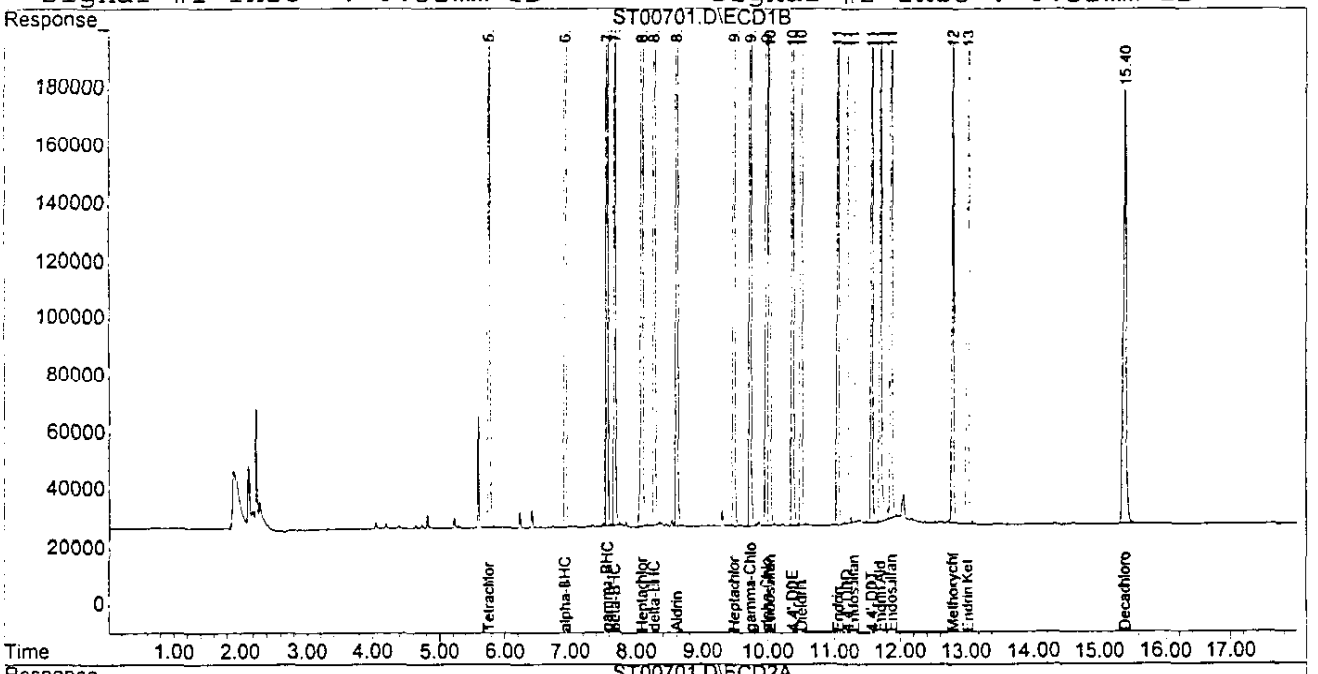
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

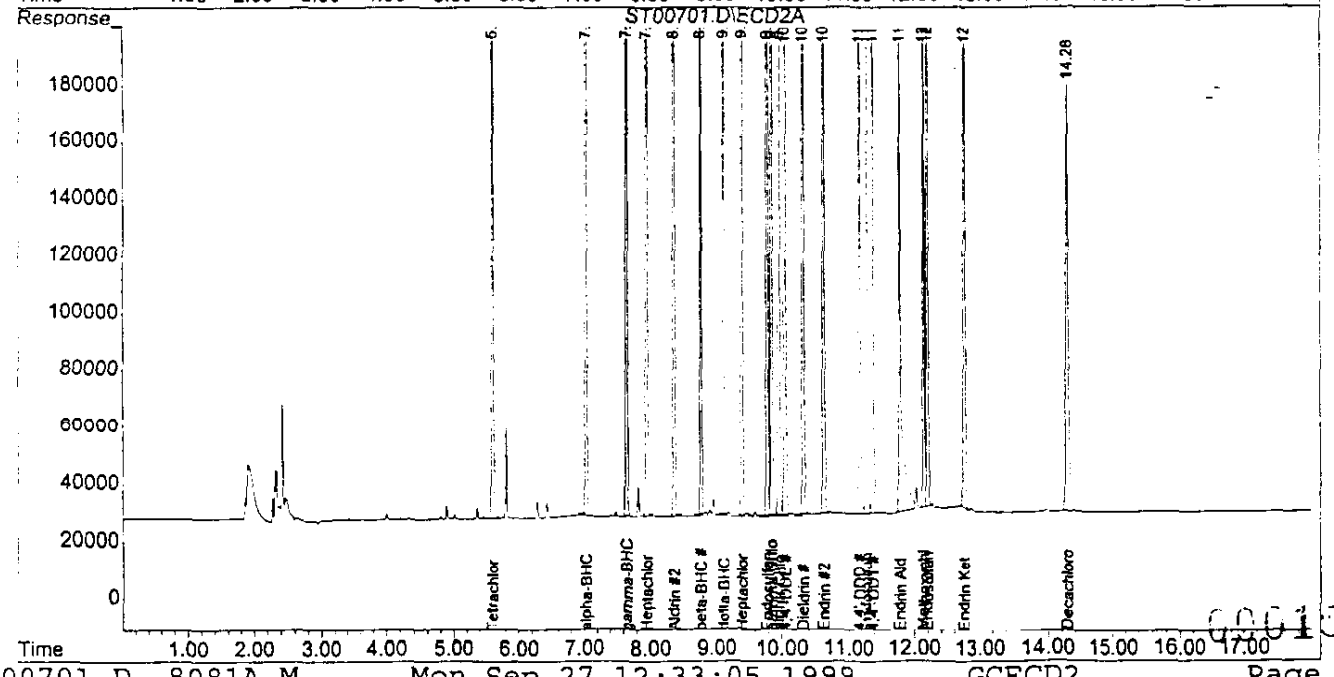
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00701.D\ECD1B.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00701.D\ECD2A.CH
Acq On : 9-27-99 11:24:04 AM Operator: stephw
Sample : 80ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:12 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:11:45 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00701.D\ECD1B.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00701.D\ECD2A.CH
Acq On : 9-27-99 11:24:04 AM Operator: stephw
Sample : 80ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:12 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:11:45 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.76	5.60	545013	460965	84.605	84.776
Spiked Amount 50.000 Range 30 - 160 Recovery =					169.21%#	169.55%#
9) SC Decachlorobiphen	15.40	14.28	150786	149474	77.896	77.114
Spiked Amount 50.000 Range 30 - 160 Recovery =					155.79%	154.23%
Target Compounds						
2) alpha-BHC	6.92	7.03	943272	785022	88.077	80.430
3) gamma-BHC (Linda	7.57	7.65	824922	700747	76.798	79.557
4) beta-BHC	7.68	8.76	331832	290334	81.640	81.685
5) Heptachlor	8.09	7.95	689835	592887	91.190	87.795
6) delta-BHC	8.27	9.11	787342	632633	88.687	77.530
7) Aldrin	8.61	8.35	645691	576422	75.642	89.293
8) Heptachlor Epoxi	9.49	9.40	596813	505052	87.971	85.871
9) gamma-Chlordane	9.74	9.85	595573	487663	90.675	87.606
10) alpha-Chlordane	9.99	9.96	562119	478146	85.156	85.027
11) Endosulfan I	10.04	9.79	533299	450134	87.138	86.174
12) 4,4'-DDE	10.38	10.05	601513	480850	78.712	79.079
13) Dieldrin	10.51	10.32	571023	502563	75.869	88.777
14) Endrin	11.06	10.62	494208	410296	93.931	89.785
15) 4,4'-DDD	11.20	11.17	481359	395961	76.776	89.852
16) Endosulfan II	11.31	11.28	494870	429358	85.918	85.358
17) 4,4'-DDT	11.59	11.38	458937	370676	86.254	88.181
18) Endrin Aldehyde	11.72	11.79	303425	173686	83.439	82.534
19) Endosulfan Sulfa	11.88	12.19	425427	342558	82.858	81.675
20) Methoxychlor	12.80	12.14	173348	170189	80.572	80.871
21) Endrin Ketone	13.03	12.75	417389	343324	86.303	83.102
Sum Chlordane-A			0	0	N.D.	N.D.
Average Chlordane-A					0.000	0.000

000157

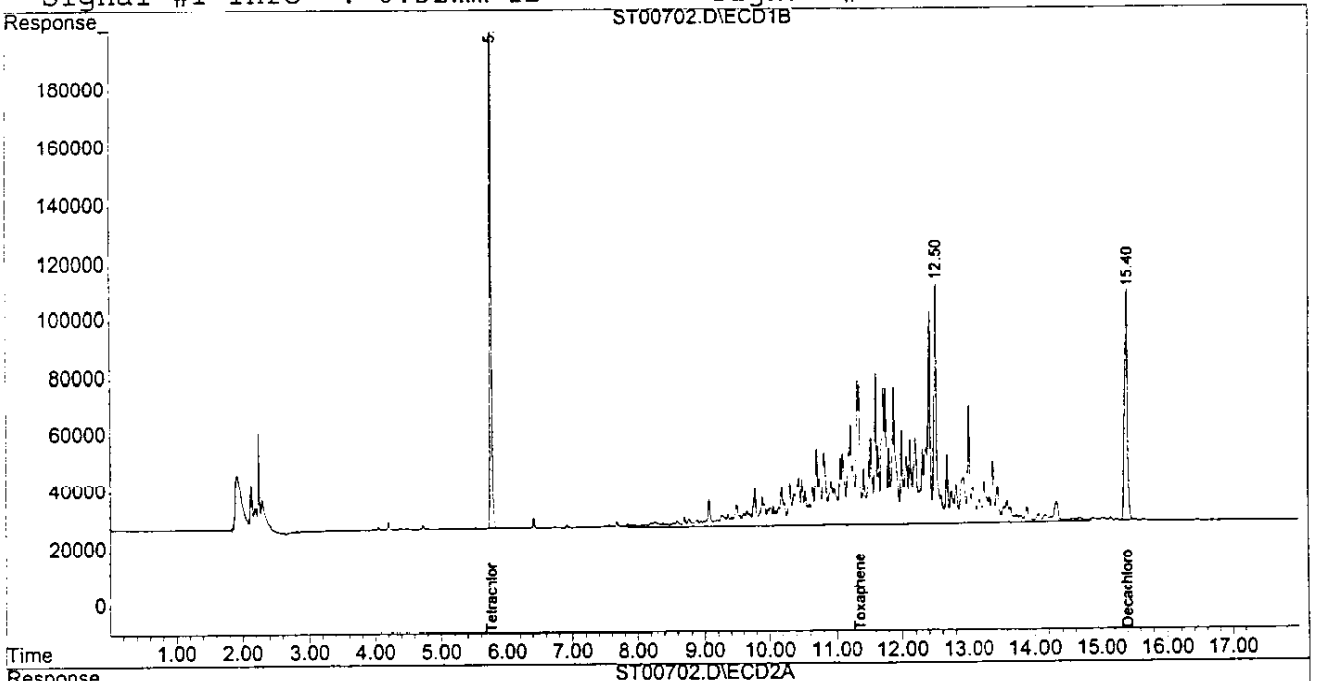
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

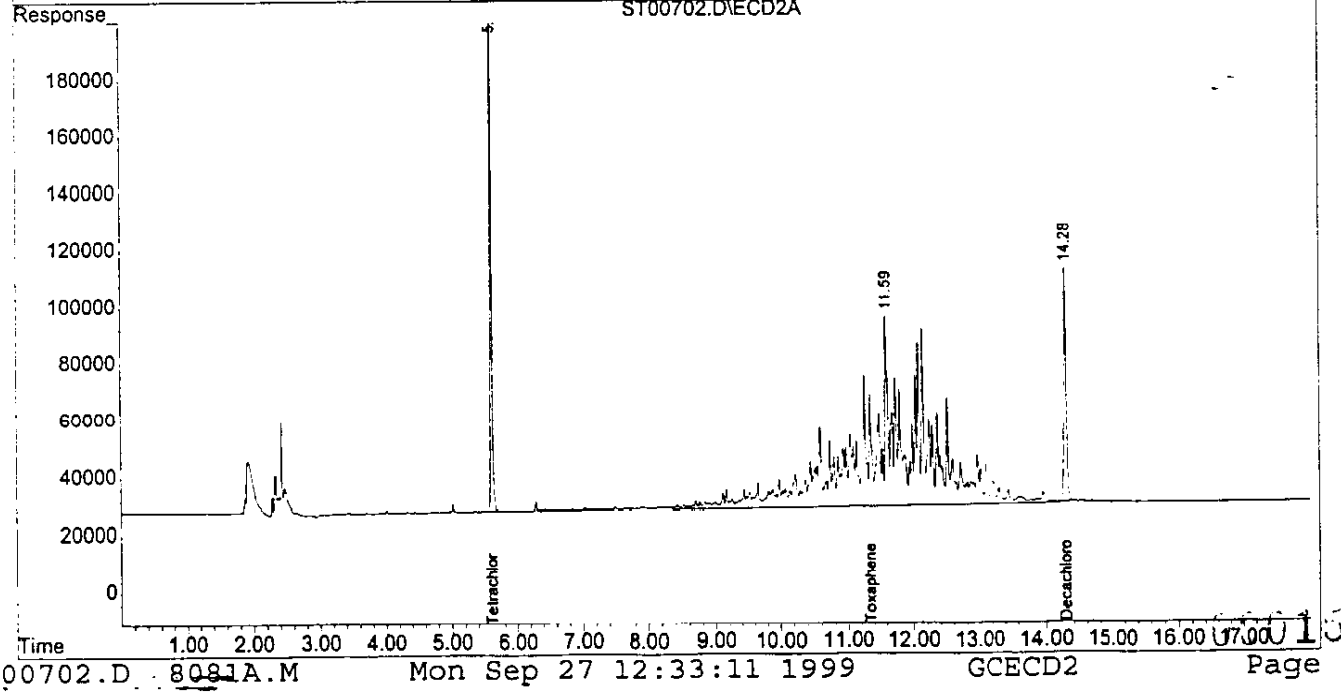
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00702.D\ECD1B.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00702.D\ECD2A.CH
Acq On : 9-27-99 11:45:14 AM Operator: stephw
Sample : 500ppb toxaphene p459 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:13 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:13:18 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00702.D\ECD1B.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00702.D\ECD2A.CH
Acq On : 9-27-99 11:45:14 AM Operator: stephw
Sample : 500ppb toxaphene p459 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:13 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:13:18 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.76	5.60	307934	262849	48.789	48.983
Spiked Amount 50.000 Range 30 - 160 Recovery =					97.58%	97.97%
29) SC Decachlorobiphen	15.40	14.28	80319	82190	41.000	41.853
Spiked Amount 50.000 Range 30 - 160 Recovery =					82.00%	83.71%
Target Compounds						
Sum Chlordane-A			0	0	N.D.	N.D.
A age Chlordane-A					0.000	0.000
28) H Toxaphene	11.35	11.35	37819391	31679151	485.845	499.989

000159

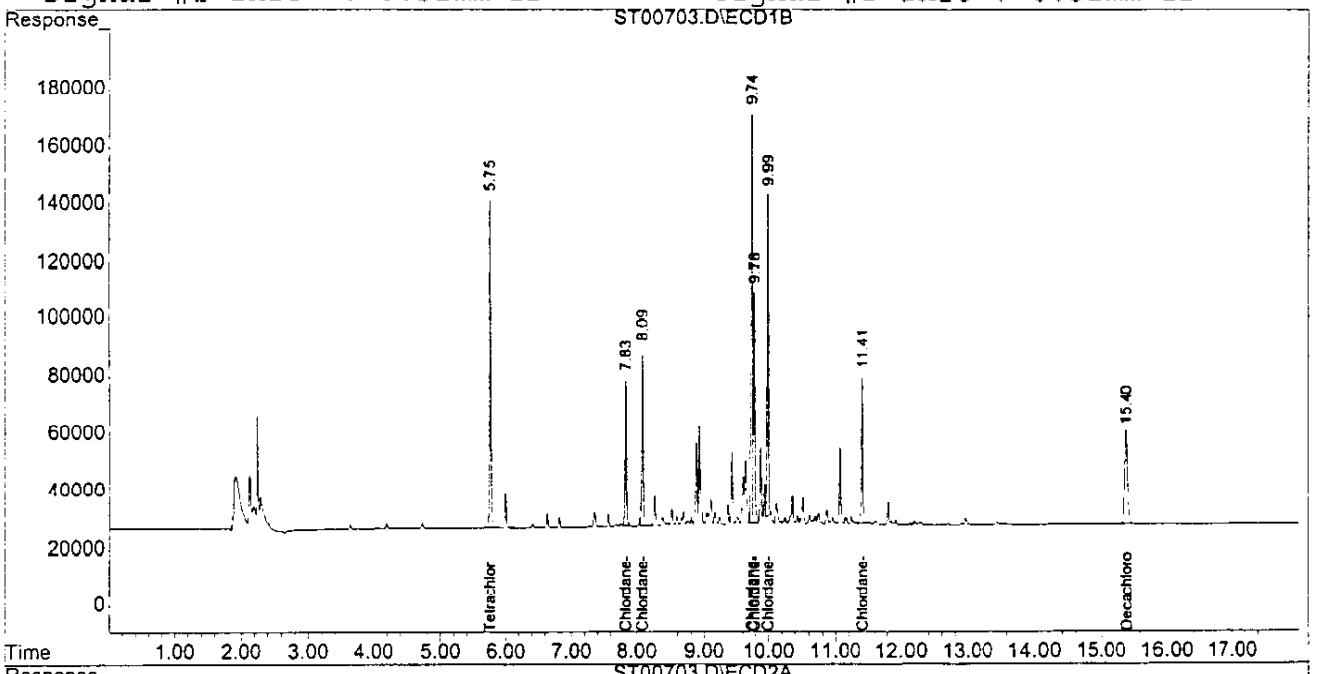
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

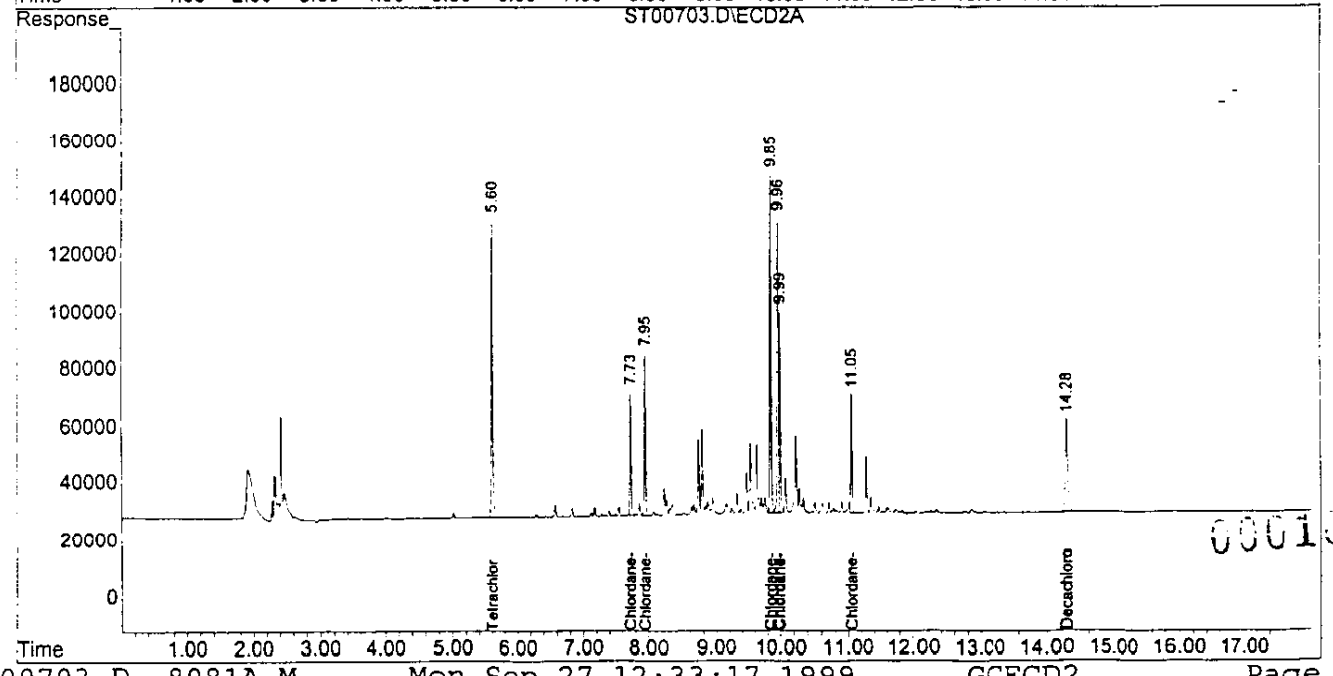
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00703.D\ECD1B.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00703.D\ECD2A.CH
Acq On : 9-27-99 12:06:31 PM Operator: stephw
Sample : 200ppb chlordane p460 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:31 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:14:10 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000100

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00703.D\ECD1B.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00703.D\ECD2A.CH
Acq On : 9-27-99 12:06:31 PM Operator: stephw
Sample : 200ppb chlordane p460 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:31 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:14:10 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.75	5.60	114165	103204	18.088	19.233
Spiked Amount 50.000 Range 30 - 160 Recovery =					36.18%	38.47%
9) SC Decachlorobiphen	15.40	14.28	32812	33215	16.750	16.914
Spiked Amount 50.000 Range 30 - 160 Recovery =					33.50%	33.83%
Target Compounds						
2) L1 Chlordane-A	7.83	7.73	50641	42489	198.034	195.384
3) L1 Chlordane-B	8.09	7.95	60917	56055	195.710	203.413
4) L1 Chlordane-C	9.74	9.85	142412	117796	194.527	195.145
5) L1 Chlordane-D	9.78	9.96	80734	102400	188.027	197.459
6) L1 Chlordane-E	9.99	9.99	112388	69993	178.640	194.540
7) L1 Chlordane-F	11.41	11.05	52074	41903	198.397	194.945
Sum Chlordane-A			499167	430635	N.D.	N.D.
Average Chlordane-A					192.223	196.815

000161

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CONTINUING CALIBRATION SUMMARY

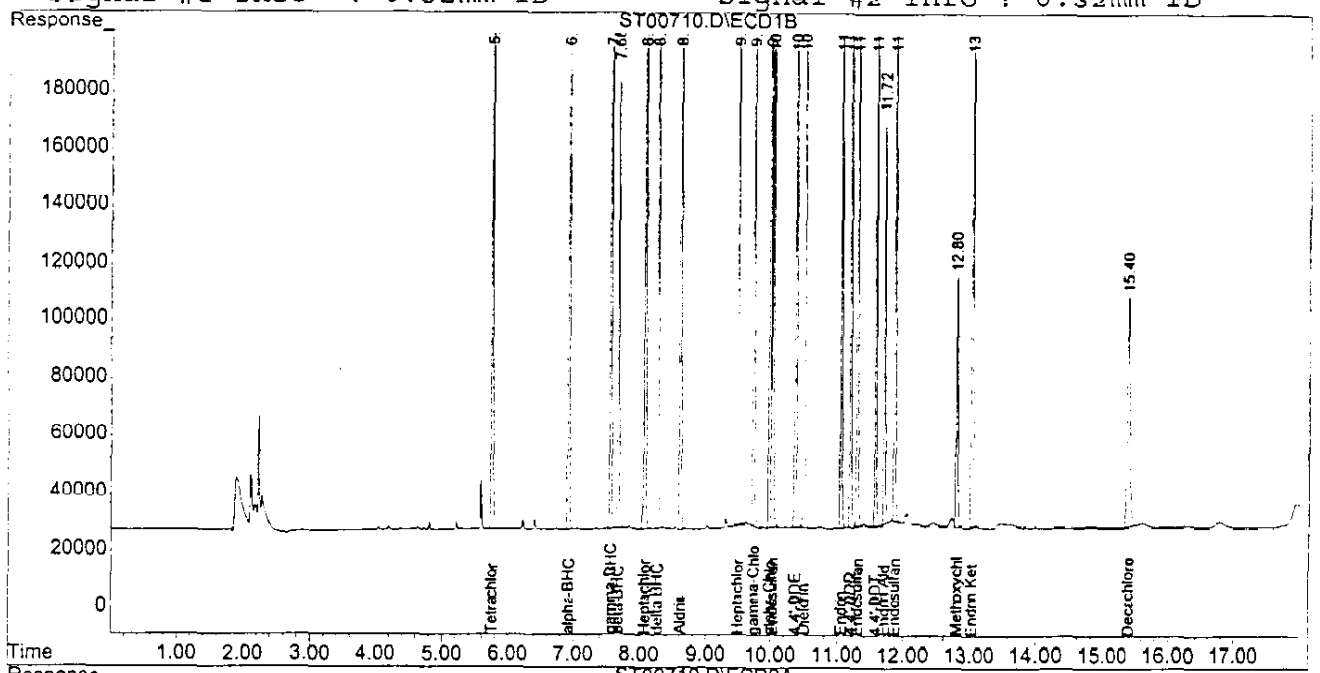
SGC.06

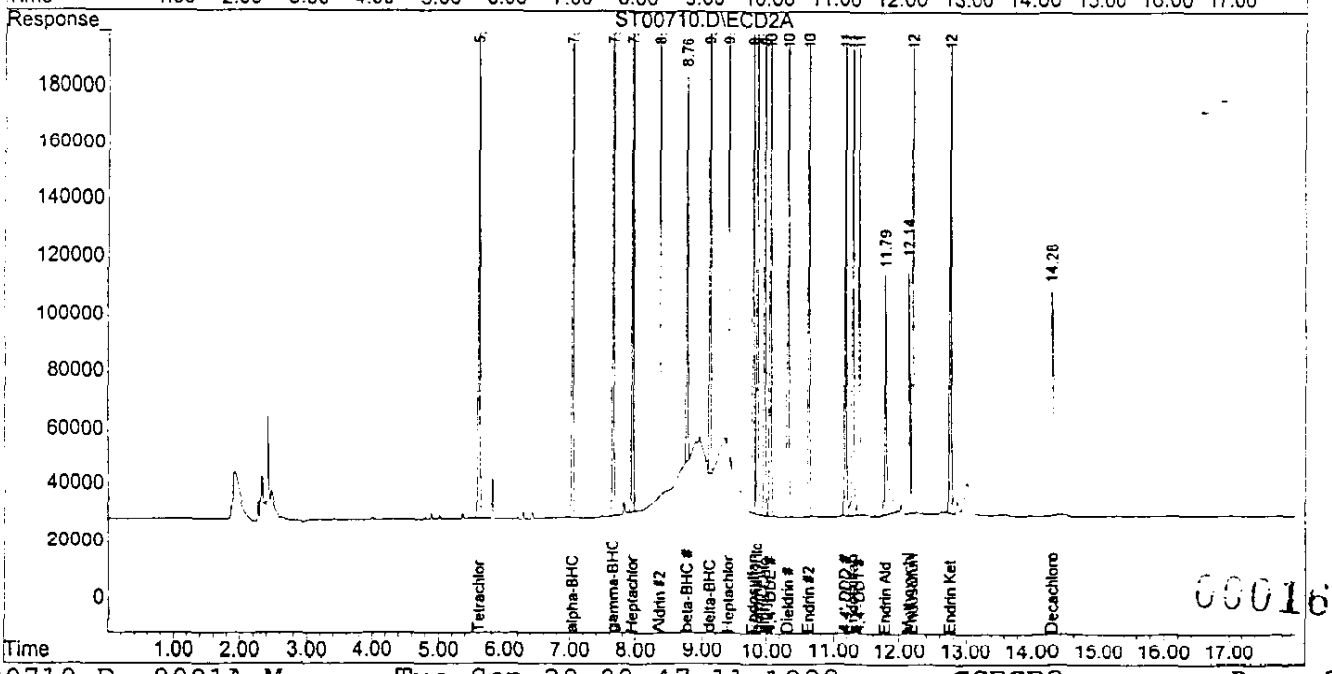
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD1B.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD2A.CH
Acq On : 9-27-99 5:17:20 PM Operator: stephw
Sample : 40ppb ccv Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 28 8:46 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000162

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD1B.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD2A.CH
Acq On : 9-27-99 5:17:20 PM Operator: stephw
Sample : 40ppb ccv Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 28 8:46 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.75	5.60	256248	219005	40.600	40.813
	Spiked Amount 50.000 Range 30 - 160 Recovery =					81.20%	81.63%
9)	SC Decachlorobiphen	15.40	14.28	80804	80033	41.248	40.755
	Spiked Amount 50.000 Range 30 - 160 Recovery =					82.50%	81.51%
	Target Compounds						
2)	alpha-BHC	6.92	7.03	430191	353297	41.127	42.656
3	gamma-BHC (Linda	7.56	7.65	392229	327622	43.771	43.027
4)	beta-BHC	7.68	8.76	159350	135566	40.386	38.910m
5)	Heptachlor	8.09	7.95	313347	279457	42.045	41.816
6)	delta-BHC	8.27	9.11	363136	287602	42.386	43.394m
7)	Aldrin	8.61	8.35	299557	265051	42.380	41.572
8)	Heptachlor Epoxi	9.49	9.40	279774	238680	42.179	41.131m
9)	gamma-Chlordane	9.74	9.85	268683	227904	41.894	41.736
.0)	alpha-Chlordane	9.99	9.96	264956	228560	41.508	41.583
.1)	Endosulfan I	10.04	9.79	242197	211221	40.513	41.105
.2)	4,4'-DDE	10.38	10.05	273588	223281	44.123	43.516
.3)	Dieldrin	10.51	10.32	276334	233422	43.539	41.792
.4)	Endrin	11.06	10.62	229381	202159	43.158	43.873
.5)	4,4'-DDD	11.20	11.17	222329	187263	42.737	43.297
.6)	Endosulfan II	11.31	11.28	232243	207407	41.119	41.758
.7)	4,4'-DDT	11.59	11.38	223636	175892	43.439	42.771
.8)	Endrin Aldehyde	11.72	11.79	142369	85008	41.132	41.909
.9)	Endosulfan Sulfa	11.88	12.19	207498	169272	41.589	41.437
20)	Methoxychlor	12.80	12.14	87887	88335	41.474	42.439
21)	Endrin Ketone	13.03	12.75	194007	167642	41.063	41.649
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000163

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD1B.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD2A.CH
Acq On : 9-27-99 5:17:20 PM Operator: stephw
Sample : 40ppb ccv Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	Tetrachloro-m-xylene	40.000	40.600	-1.5	94	0.00
2		alpha-BHC	40.000	41.127	-2.8	102	0.00
3		gamma-BHC (Lindane)	40.000	43.771	-9.4	101	0.00
4		beta-BHC	40.000	40.386	-1.0	100	0.00
5		Heptachlor	40.000	42.045	-5.1	102	0.00
6		delta-BHC	40.000	42.386	-6.0	102	0.00
7		Aldrin	40.000	42.380	-6.0	99	0.00
8		Heptachlor Epoxide	40.000	42.179	-5.4	103	0.00
9		gamma-Chlordane	40.000	41.894	-4.7	99	0.00
10		alpha-Chlordane	40.000	41.508	-3.8	102	0.00
11		Endosulfan I	40.000	40.513	-1.3	97	0.00
12		4,4'-DDE	40.000	44.123	-10.3	106	0.00
		Dieldrin	40.000	43.539	-8.8	104	0.00
14		Endrin	40.000	43.158	-7.9	104	0.00
15		4,4'-DDD	40.000	42.737	-6.8	104	0.00
16		Endosulfan II	40.000	41.119	-2.8	103	0.00
17		4,4'-DDT	40.000	43.439	-8.6	107	0.00
18		Endrin Aldehyde	40.000	41.132	-2.8	102	0.00
19		Endosulfan Sulfate	40.000	41.589	-4.0	105	0.00
20		Methoxychlor	40.000	41.474	-3.7	108	0.00
21		Endrin Ketone	40.000	41.063	-2.7	103	0.00
29	SC	Decachlorobiphenyl	40.000	41.248	-3.1	108	0.00

Signal #2

1	S	Tetrachloro-m-xylene	40.000	40.813	-2.0	99	0.00
2		alpha-BHC	40.000	42.656	-6.6	101	0.00
3		gamma-BHC (Lindane)	40.000	43.027	-7.6	101	0.00
4		beta-BHC	40.000	38.910	2.7	99	0.00
5		Heptachlor	40.000	41.816	-4.5	102	0.00
6		delta-BHC	40.000	43.394	-8.5	104	0.00
7		Aldrin	40.000	41.572	-3.9	99	0.00
8		Heptachlor Epoxide	40.000	41.131	-2.8	101	0.00
9		gamma-Chlordane	40.000	41.736	-4.3	102	0.00
10		alpha-Chlordane	40.000	41.583	-4.0	102	0.00
11		Endosulfan I	40.000	41.105	-2.8	100	0.00
12		4,4'-DDE	40.000	43.516	-8.8	104	0.00
		Dieldrin	40.000	41.792	-4.5	101	0.00
14		Endrin	40.000	43.873	-9.7	106	0.00
15		4,4'-DDD	40.000	43.297	-8.2	107	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD1B.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD2A.CH
Acq On : 9-27-99 5:17:20 PM Operator: stephw
Sample : 40ppb ccv Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
16		Endosulfan II	40.000	41.758	-4.4	104	0.00
17		4,4'-DDT	40.000	42.771	-6.9	107	0.00
18		Endrin Aldehyde	40.000	41.909	-4.8	105	0.00
19		Endosulfan Sulfate	40.000	41.437	-3.6	105	0.00
20		Methoxychlor	40.000	42.439	-6.1	107	0.00
21		Endrin Ketone	40.000	41.649	-4.1	104	0.00
29	SC	Decachlorobiphenyl	40.000	40.755	-1.9	108	0.00

SEQUENCE LOG SUMMARY

SGC.07

Sequence Name: C:\HPCHEM\1\SEQUENCE\0927pest.S
Comment:
Operator: stephw
Data Path: C:\HPCHEM\1\DATA\0927pest\
Pre-Seq Cmd:
Post-Seq Cmd:

gst 28

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	1	ST00694	ACQ_PEST	cond std
2	Sample	2	ST00695	ACQ_PEST	ddt/endrin breakdown p458
3	Sample	3	ST00696	ACQ_PEST	40ppb pest ccv p471
4	Sample	4	ST00697	ACQ_PEST	5ppb pest p471
5	Sample	5	ST00698	ACQ_PEST	10ppb pest p471
6	Sample	6	ST00699	ACQ_PEST	20ppb pest p471
7	Sample	7	ST00700	ACQ_PEST	60ppb pest p471
8	Sample	8	ST00701	ACQ_PEST	80ppb pest p471
9	Sample	9	ST00702	ACQ_PEST	500ppb toxaphene p459
10	Sample	10	ST00703	ACQ_PEST	200ppb chlordane p460
11	Sample	11	ST00704	ACQ_PEST	op956-mb5
12	Sample	12	ST00705	ACQ_PEST	op956-bs5
13	Sample	13	ST00706	ACQ_PEST	F4929-1
14	Sample	14	ST00707	ACQ_PEST	F4941-1
15	Sample	15	ST00708	ACQ_PEST	F4947-1,10x
16	Sample	16	ST00709	ACQ_PEST	F4947-1,40x
17	Sample	17	ST00710	ACQ_PEST	40ppb ccv

000166

GC ANALYSIS LOG

DATE: 27-99	METHODS: 8081	ANALYST: SW
COLUMN TYPE: DB17/1701	METHOD FILE: 8081A	RUN BATCH: GST 28
INSTRUMENT: ECD 3	CALIB. DATE: 9-27-99	AMOUNT INJECTED: 1 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	SAMPLE AMOUNT	MATRIX	EXT. BATCH	DILUTION FACTOR	RUN OK	COMMENTS
ST00694	1	cond Std	8081					✓	
695	2	ddt/endrin bd			p458		50:500	✓	passed
696	3	40 ppb pest ccv			p471		40:1000	✓	recal
697	4	5 ppb pest					5:1000	✓	
698	5	10 ppb pest					10:1000	✓	
699	6	20 ppb pest					20:1000	✓	
700	7	60 ppb pest					60:1000	✓	
701	8	80 ppb pest					80:1000	✓	passed; RSD<20%
702	9	500 ppb tox			p459		50:500	✓	updated
703	10	200 ppb chlor			p460		40:1000	✓	↓
704	11	OP956-MB5		500ml/5ml	W	OP956	1x	✓	ND
705	12	-DS5						✓	✓
706	13	F4929-1						✓	ND
707	14	F4941-1						✓	ND
708	15	F4947-1		50ml/5ml			10x	✓	Report Endosulfan II only
709	16	-1					40x	✓	Endo. I
710	17	40 ppb ccv						✓	passed

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature [signature]

EXTRACTION LOG SUMMARY

SGC.08

LIQUID SAMPLE PREP REPORT

Date: 9 27·99 Method*: 8081- Pest Batch#: 00956

Batch Started On: 8·31·99 Prior Number Of Samples in Batch : 16 Analyst: NS/VN/LS/RA

Sample ID	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
0P956MB 5	500	7	N/A	0.5 ml		5.0 ml	
BS 5	↓	↓	↓	↓	0.5 ml	↓	
E4929-1	↓	↓	↓	↓		↓	
E4941-1	↓	↓	↓	↓		↓	
E4947-1	50/500	↓	↓	↓		↓	diluted due to matrix
MS							
MSD							
DUP							

Surrogate ID: E465 Conc: 500 ppb Exp. Date: 3·22·00 Bath Temp.: 70°C

Spike ID: E456 Conc: 500 ppb Exp. Date: 3·10·00 Bath Temp2.: 90°C

CH2CL2 Lot #: 994655 Hexane Lot # 39116 Other (specify)____

Reagent # ER-003 Reagent # 992226 Isopropanol Reagent #____

Comments: Bath Temp. 70° - final @ 90°C

Relinquished By: [signature] Date: 9-27-99

Accepted By: [signature] Date: 9-27-99

000165

*Prep method for SW846 methods is 3510C for waters and 3580A for non-aqueous liquids.

SAMPLE RESULT SUMMARY

Report of Analysis

Client Sample ID:	GP.10.01		
Lab Sample ID:	F4929-1	**Date Sampled:**	09/22/99
Matrix:	AQ - Ground Water	**Date Received:**	09/23/99
Method:	SW846 8015 M	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	OP05297.D	1	09/27/99	ME	09/27/99	OP986	GOP254
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C10-C28)	ND	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		40-140%

(a) Sample not preserved, adjusted to pH < 2 prior to extraction.

00103

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

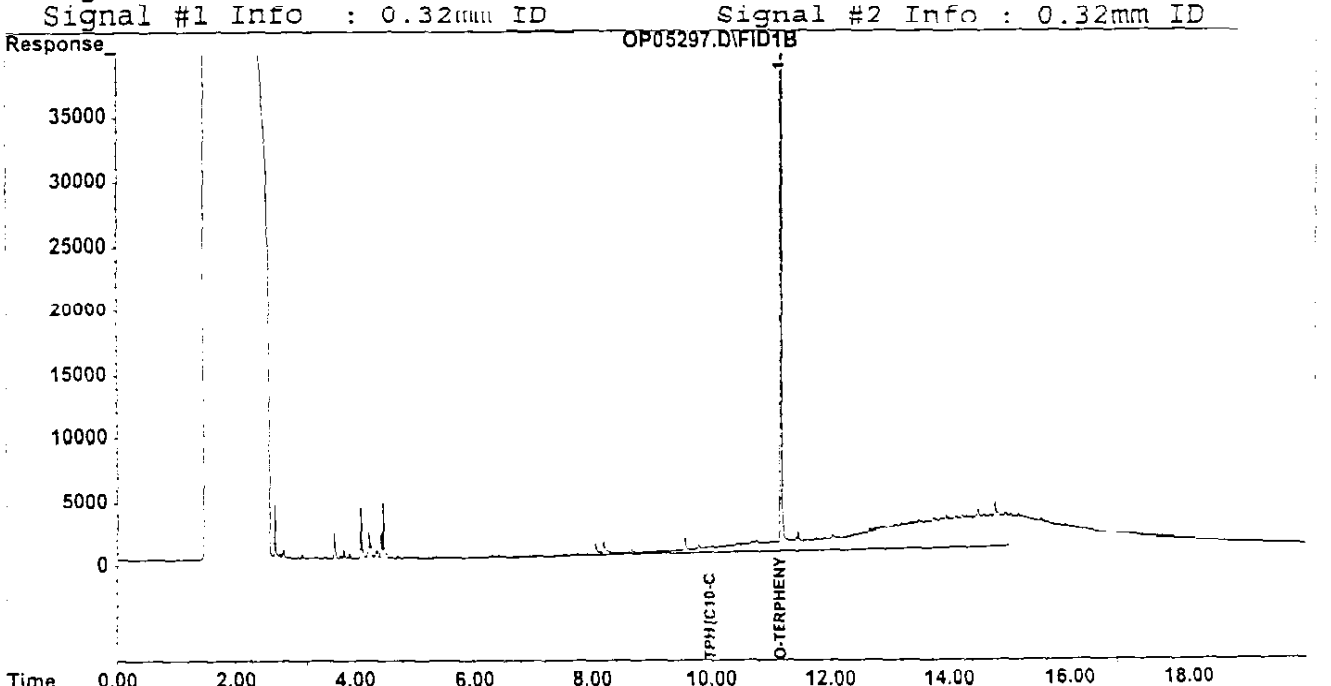
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

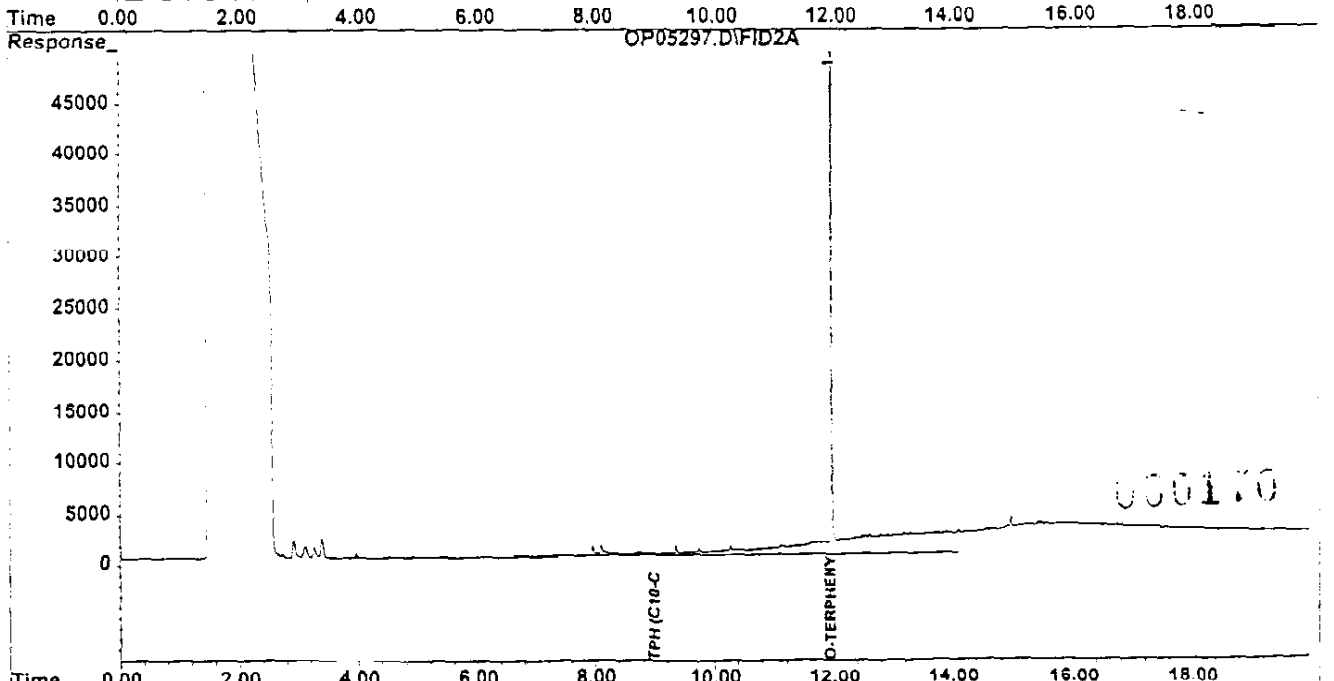
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05297.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05297.D\FID2A.CH
Acq On : 27 Sep 1999 4:28 pm Operator: marke
Sample : f4929-1 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 16:48 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000170

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05297.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05297.D\FID2A.CH
Acq On : 27 Sep 1999 4:28 pm Operator: marke
Sample : f4929-1 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 16:48 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.98	1738244	1718155	49.024	49.312
Spiked Amount 50.000 Range 40 - 140 Recovery =					98.05%	98.62%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	4820860	3480632	~~143.280~~	~~112.504~~

BN

000171

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

SURROGATE RECOVERIES SUMMARY

SGC.02

Semivolatile Surrogate Recovery Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Method: SW846 8015 M **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F4929-1	OP05297.D	98.0
OP986-BS3	OP05299.D	96.0
OP986-MB3	OP05298.D	86.0
OP986-MS	IJ09631.D	92.0
OP986-MSD	IJ09632.D	99.0
OP986-MB	IJ09627.D	100.0

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%

(a) Recovery from GC signal #1

MATRIX SPIKE/ MATRIX SPIKE DUPLICATE/ BLANK SPIKE SUMMARY

Blank Spike Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP986-BS3	OP05299.D	1	09/27/99	ME	09/27/99	OP986	GOP254

The QC reported here applies to the following samples: **Method:** SW846 8015 M

F4929-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C28)	2	1.93	96	40-140

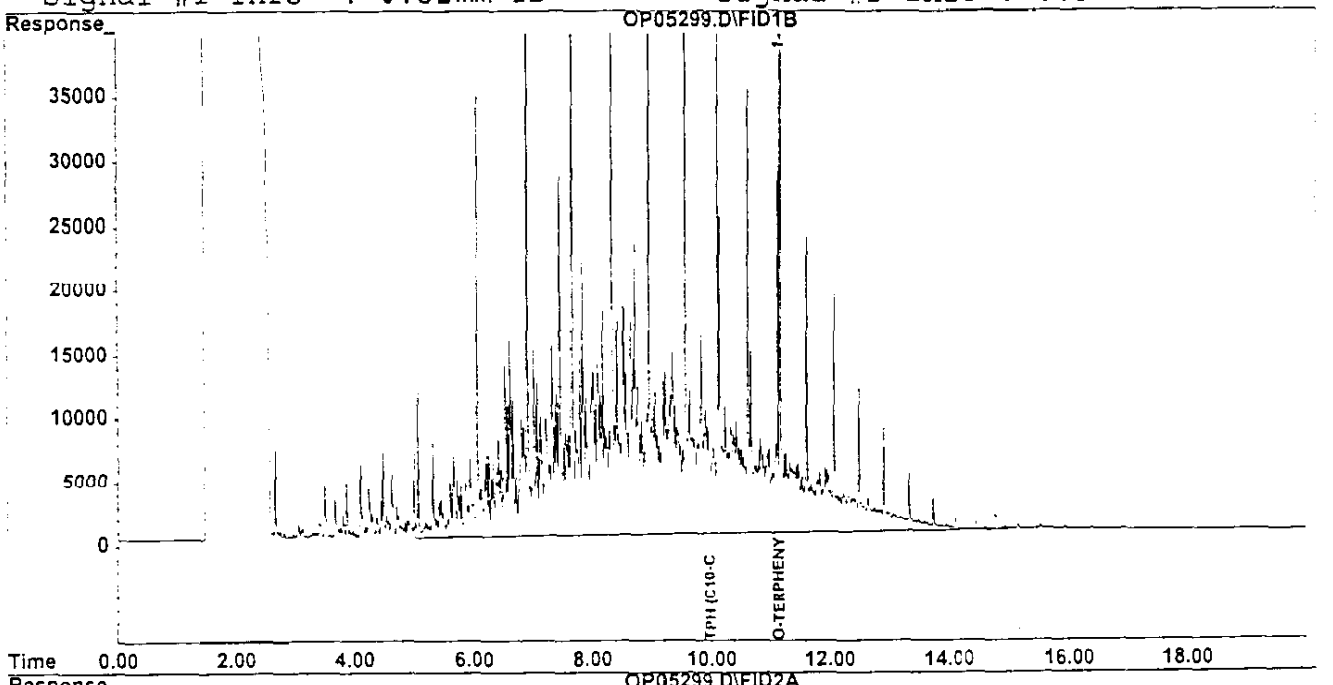
CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	96%	40-140%

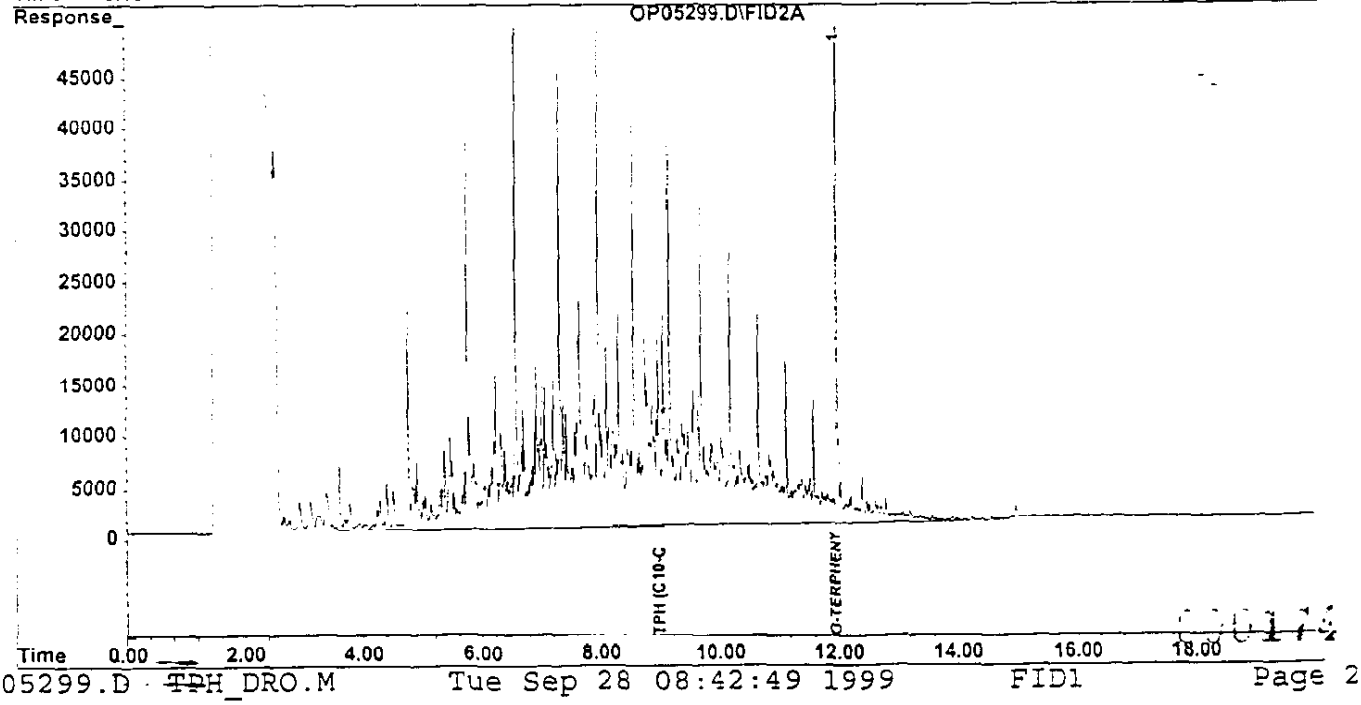
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05299.D\FID1B.CH Vial: 8
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05299.D\FID2A.CH
Acq On : 27 Sep 1999 5:21 pm Operator: marke
Sample : op986-bs3 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:42 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05299.D\FID1B.CH Vial: 8
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05299.D\FID2A.CH
Acq On : 27 Sep 1999 5:21 pm Operator: marke
Sample : op986-bs3 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:42 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.97	1699062	1753013	47.919m	50.312m
Spiked Amount 50.000 Range 40 - 140 Recovery =					95.84%	100.62%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	32472414	29662024	965.105	958.760

000175

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP986-MS	IJ09631.D	1	09/17/99	ME	09/17/99	OP986	GIJ435
OP986-MSD	IJ09632.D	1	09/17/99	ME	09/17/99	OP986	GIJ435
F4900-2 [a]	IJ09630.D	1	09/17/99	ME	09/17/99	OP986	GIJ435

The QC reported here applies to the following samples: **Method:** SW846 8015 M

F4929-1

CAS No.	Compound	F4900-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	ND		4	4.06	102	4.13	103	2	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	F4900-2	Limits
84-15-1	o-Terphenyl	92%	99%	96%	40-140%

(a) Sample not preserved, adjusted to pH < 2 prior to extraction.

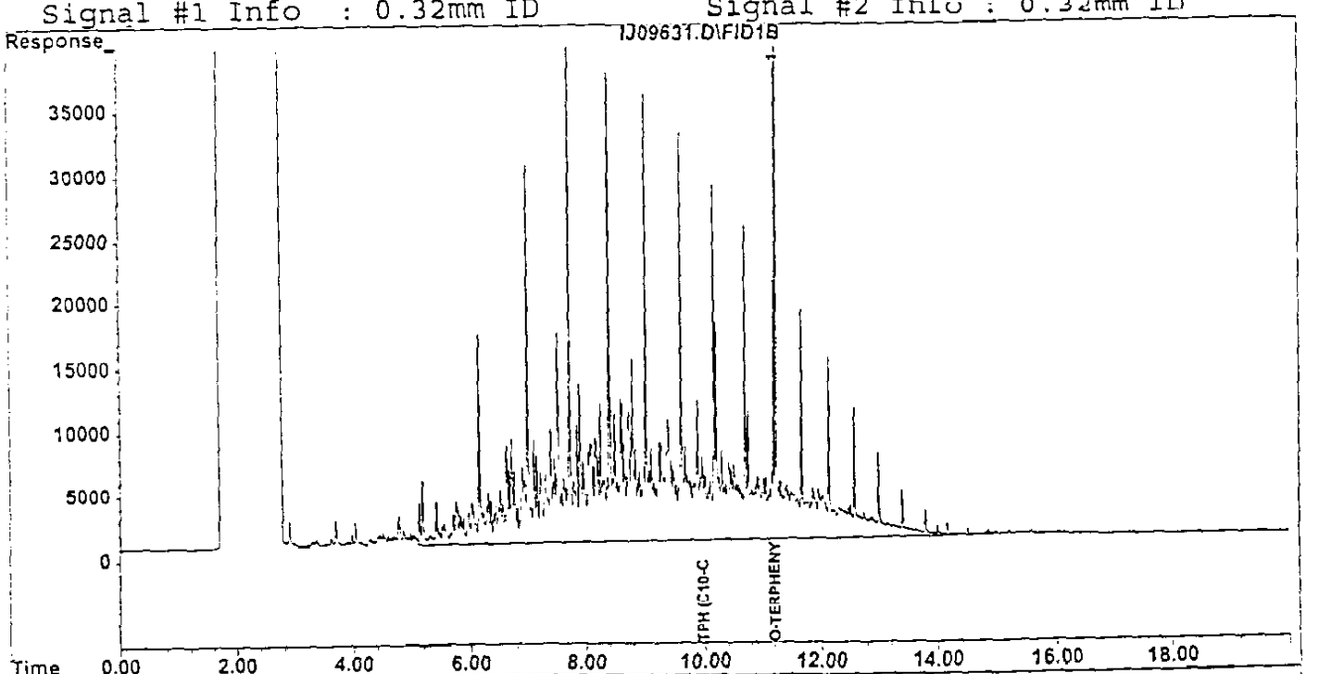
000178

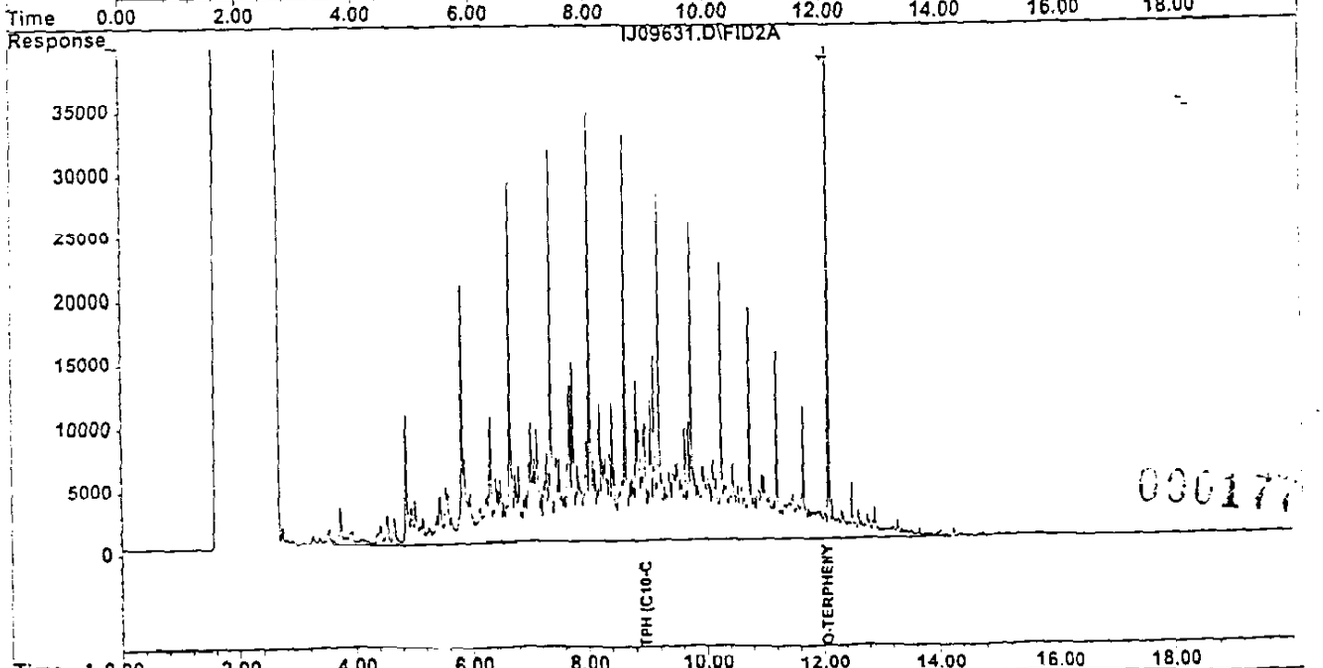
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0917DRO\IJ09631.D\FID1B.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\0917DRO\IJ09631.D\FID2A.CH
Acq On : 17 Sep 1999 7:33 pm Operator: marke
Sample : op986-ms Inst : FID 1
Misc : op986,gij435,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 19:53 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Fri Sep 17 17:20:15 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000177

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0917DRO\IJ09631.D\FID1B.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\0917DRO\IJ09631.D\FID2A.CH
Acq On : 17 Sep 1999 7:33 pm Operator: marke
Sample : op986-ms Inst : FID 1
Misc : op986,gij435,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 19:53 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Fri Sep 17 17:20:15 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.25	12.10	1038242	1185721	46.199	47.886
Spiked Amount 50.000 Range 40 - 140 Recovery =					92.40%	95.77%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	20794195	19944273	1015.647	1019.703

000178

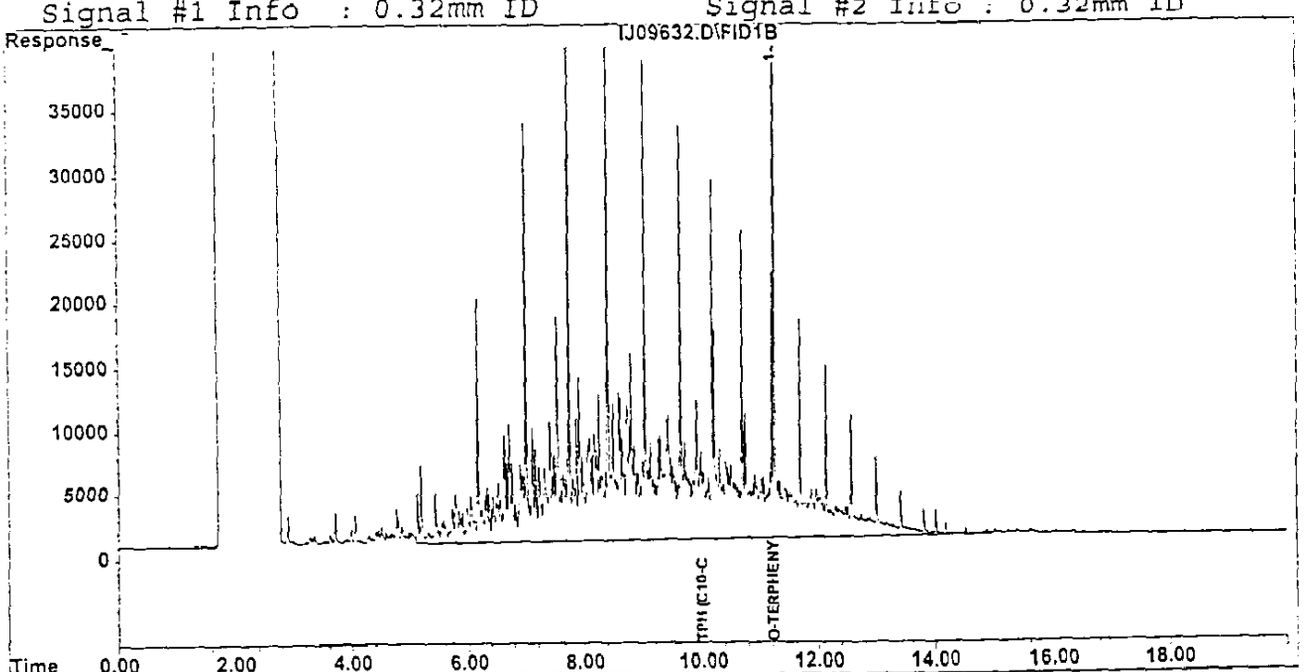
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

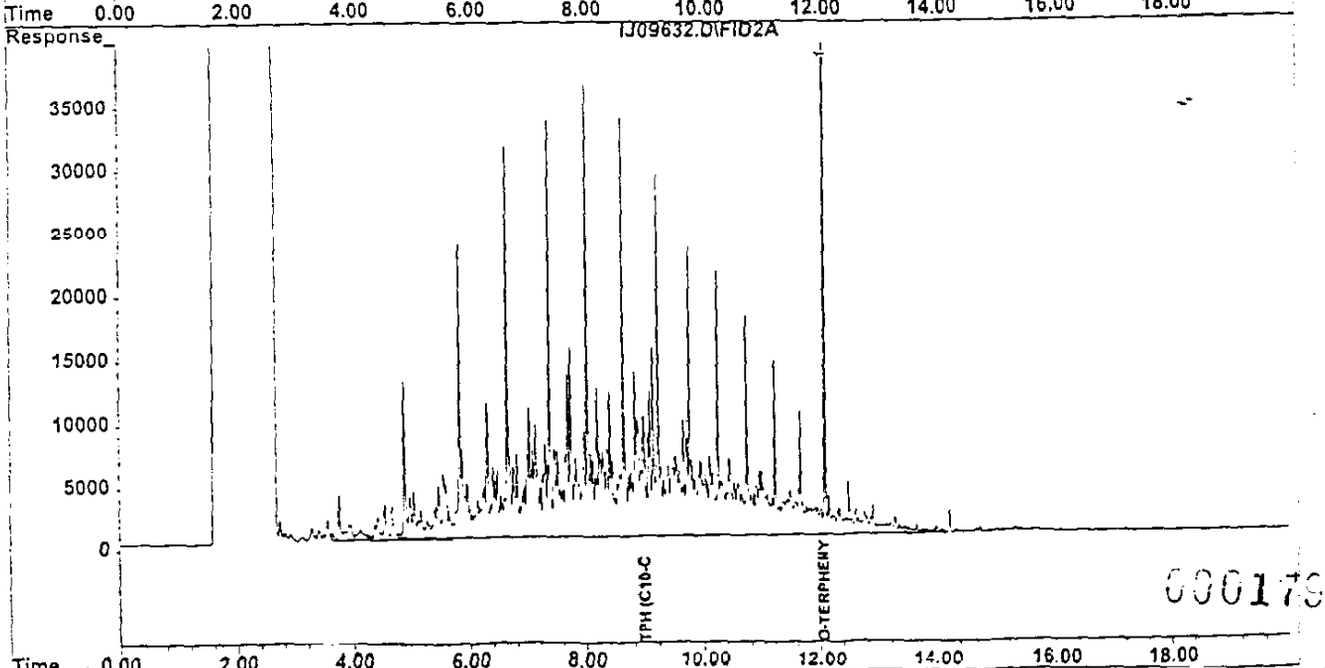
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0917DRO\IJ09632.D\FID1B.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\0917DRO\IJ09632.D\FID2A.CH
Acq On : 17 Sep 1999 7:59 pm Operator: marke
Sample : op986-msd Inst : FID 1
Misc : op986,gij435,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 20:19 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Fri Sep 17 17:20:15 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000179

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0917DRO\IJ09632.D\FID1B.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\0917DRO\IJ09632.D\FID2A.CH
Acq On : 17 Sep 1999 7:59 pm Operator: marke
Sample : op986-msd Inst : FID 1
Misc : op986,gij435,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 20:19 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Fri Sep 17 17:20:15 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.25	12.09	1113506	1187473	49.548	47.957
Spiked Amount 50.000 Range 40 - 140 Recovery =					99.10%	95.91%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	21161656	20404070	1033.595	1043.211

000150

(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

METHOD BLANK SUMMARY

Method Blank Summary

Job Number: F4929
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP986-MB3	OP05298.D	1	09/27/99	ME	09/27/99	OP986	GOP254

The QC reported here applies to the following samples: **Method:** SW846 8015 M

F4929-1

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C10-C28)	ND	0.50	mg/l	

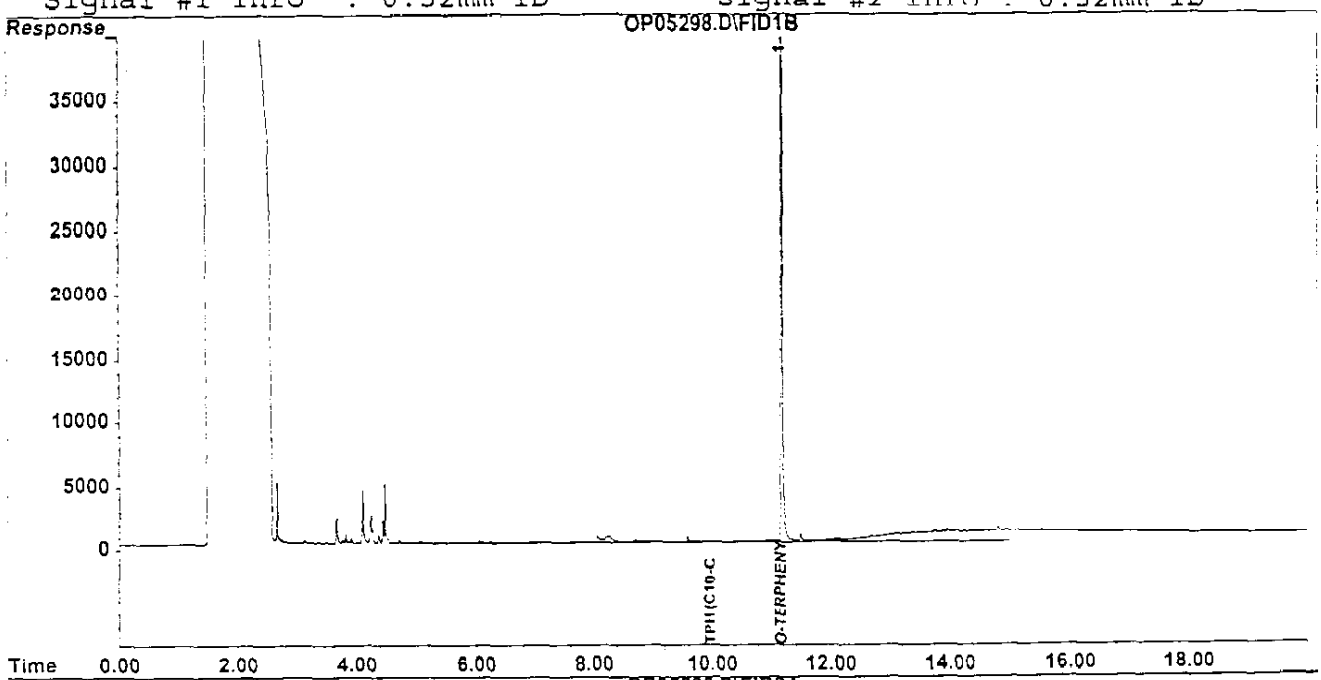
CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	40-140%

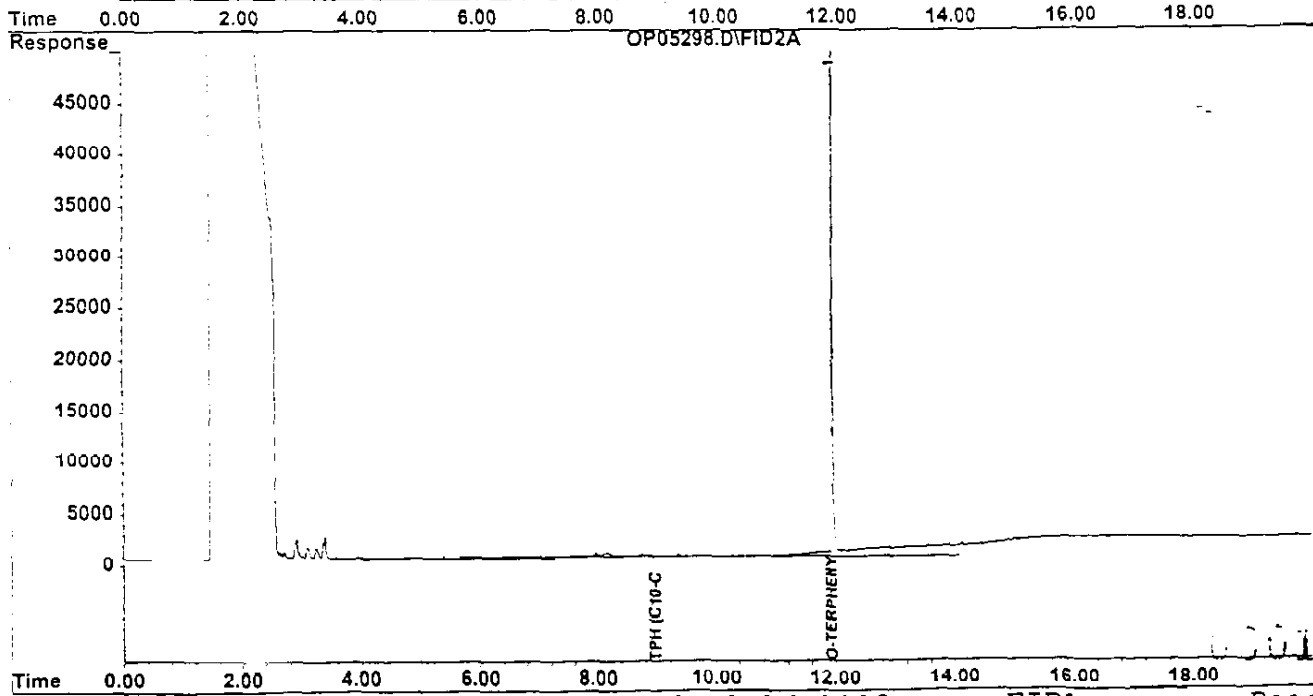
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05298.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05298.D\FID2A.CH
Acq On : 27 Sep 1999 4:54 pm Operator: marke
Sample : op986-mb3 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:23 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05298.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05298.D\FID2A.CH
Acq On : 27 Sep 1999 4:54 pm Operator: marke
Sample : op986-mb3 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:23 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.97	1521187	1500048	42.903	43.052
Spiked Amount 50.000 Range 40 - 140 Recovery =					85.81%	86.10%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	1424044	1376630	~~42.324~~	~~44.497~~

BDL

000183

(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

INITIAL CALIBRATION SUMMARY

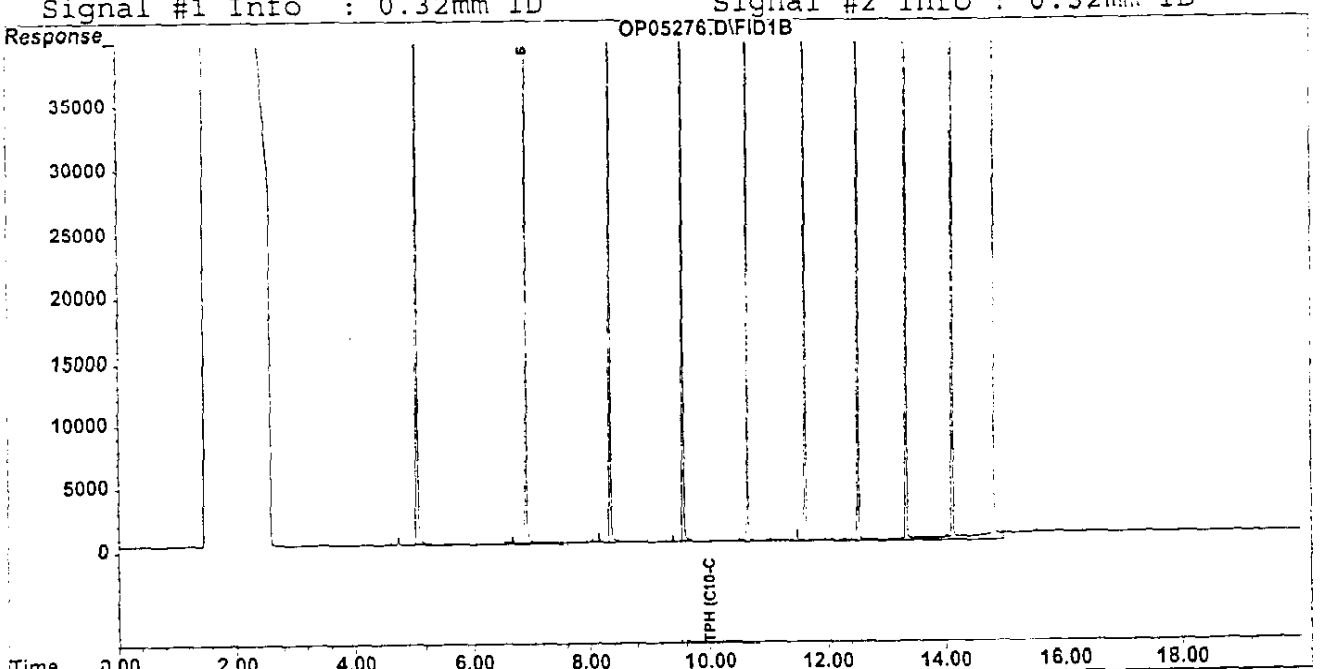
SGC.05

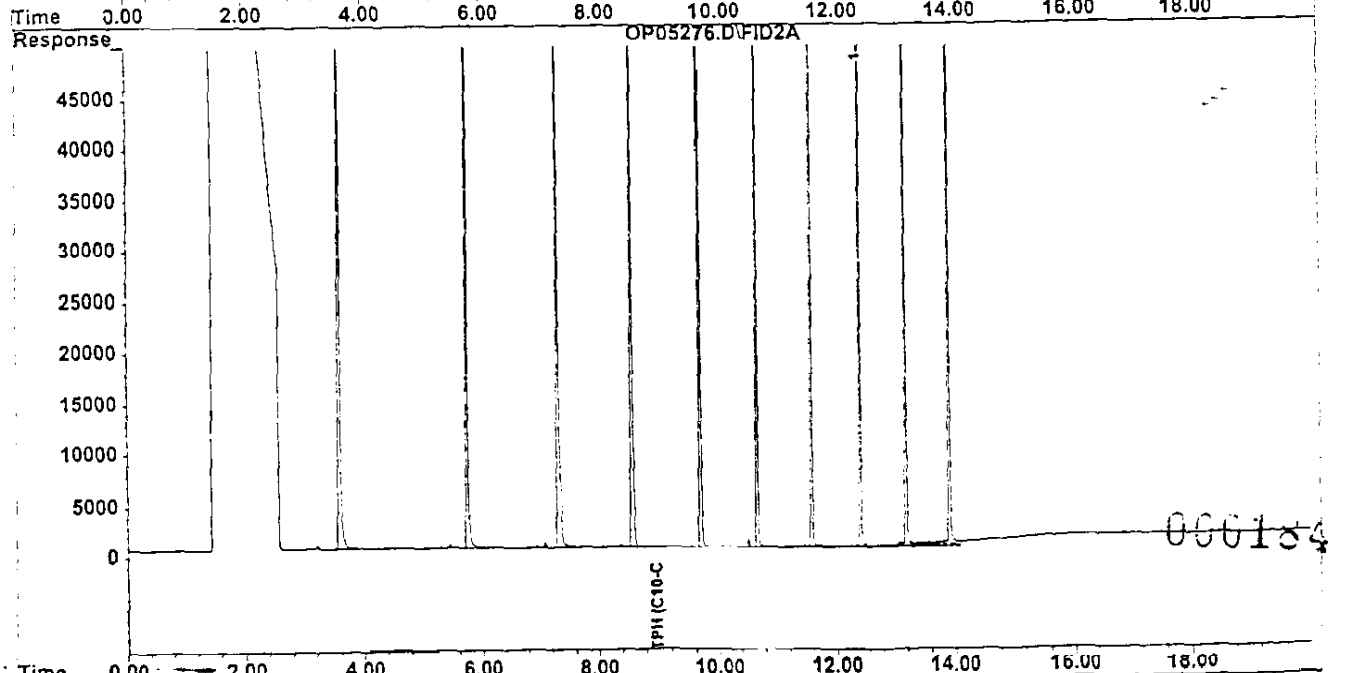
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05276.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05276.D\FID2A.CH
Acq On : 23 Sep 1999 9:25 am Operator: marke
Sample : dro rt std c10-c28 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 9:48 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 09:48:04 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB 5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000154

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05276.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05276.D\FID2A.CH
Acq On : 23 Sep 1999 9:25 am Operator: marke
Sample : dro rt std c10-c28 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 9:48 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 09:48:04 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 50.000	Range	40 - 140	Recovery	=	0.00%#	0.00%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	17101271	16570050	576.525	620.494

000185

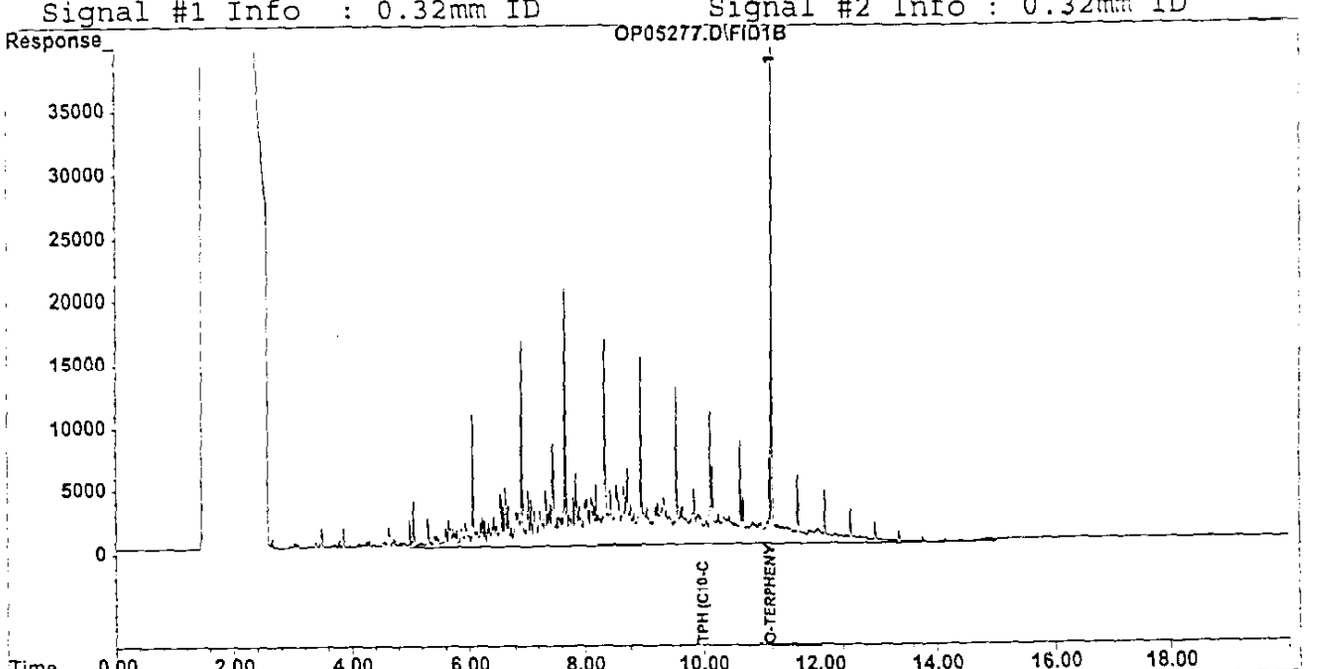
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

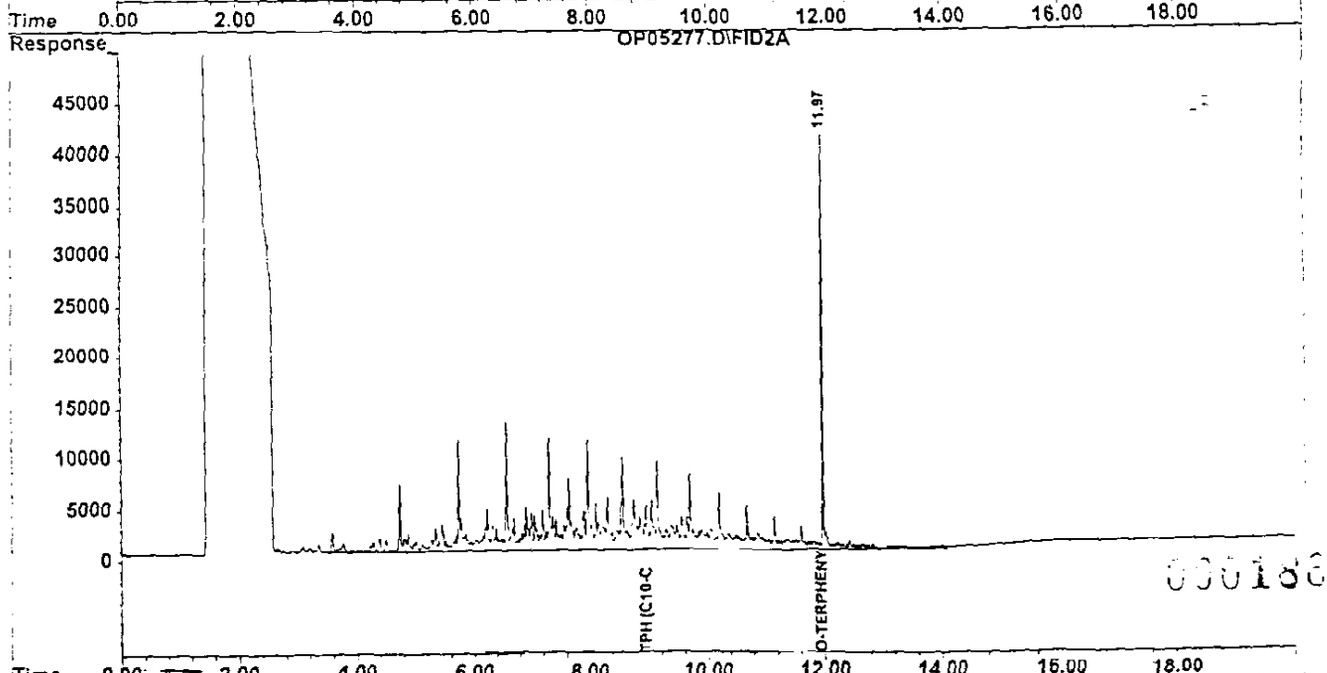
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05277.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05277.D\FID2A.CH
Acq On : 23 Sep 1999 9:51 am Operator: marke
Sample : 250ppm dro s650 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 10:16 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05277.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05277.D\FID2A.CH
Acq On : 23 Sep 1999 9:51 am Operator: marke
Sample : 250ppm dro s650 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 10:16 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.97	466109	458617	14.932	14.490m
Spiked Amount 50.000 Range 40 - 140 Recovery =					29.86%#	28.98%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	8909363	7876848	300.356	294.962

000187

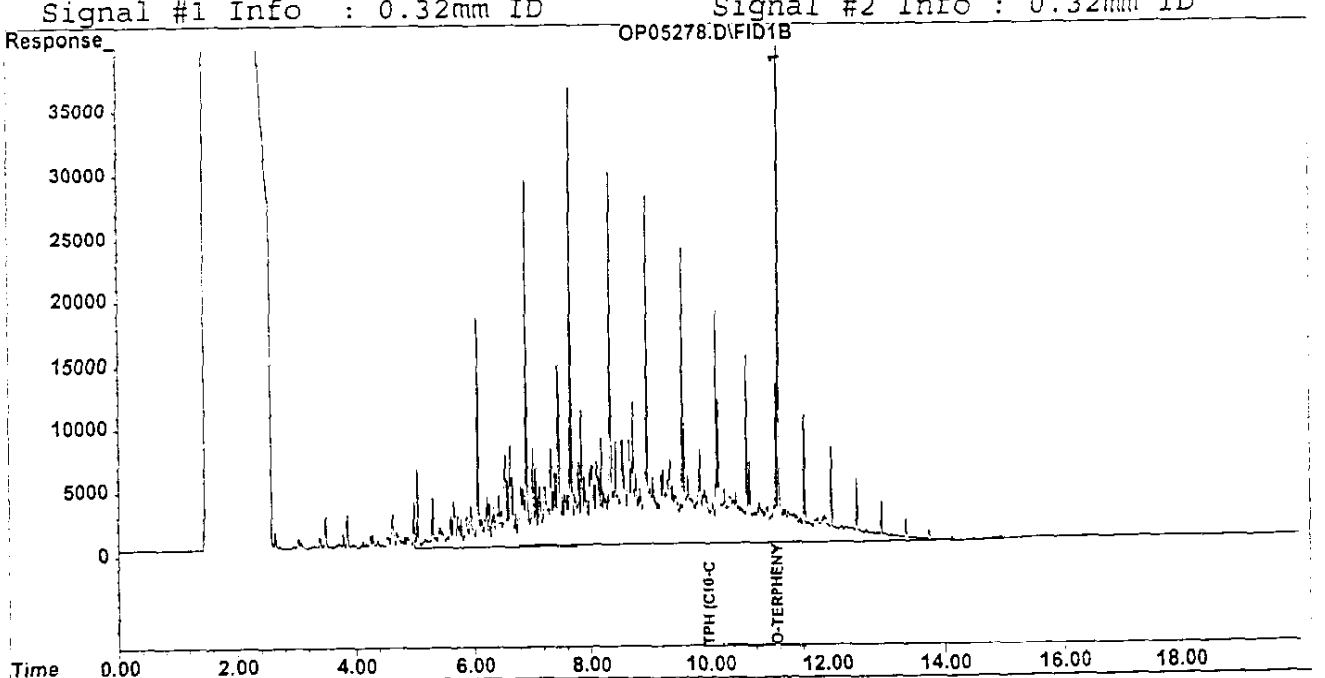
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

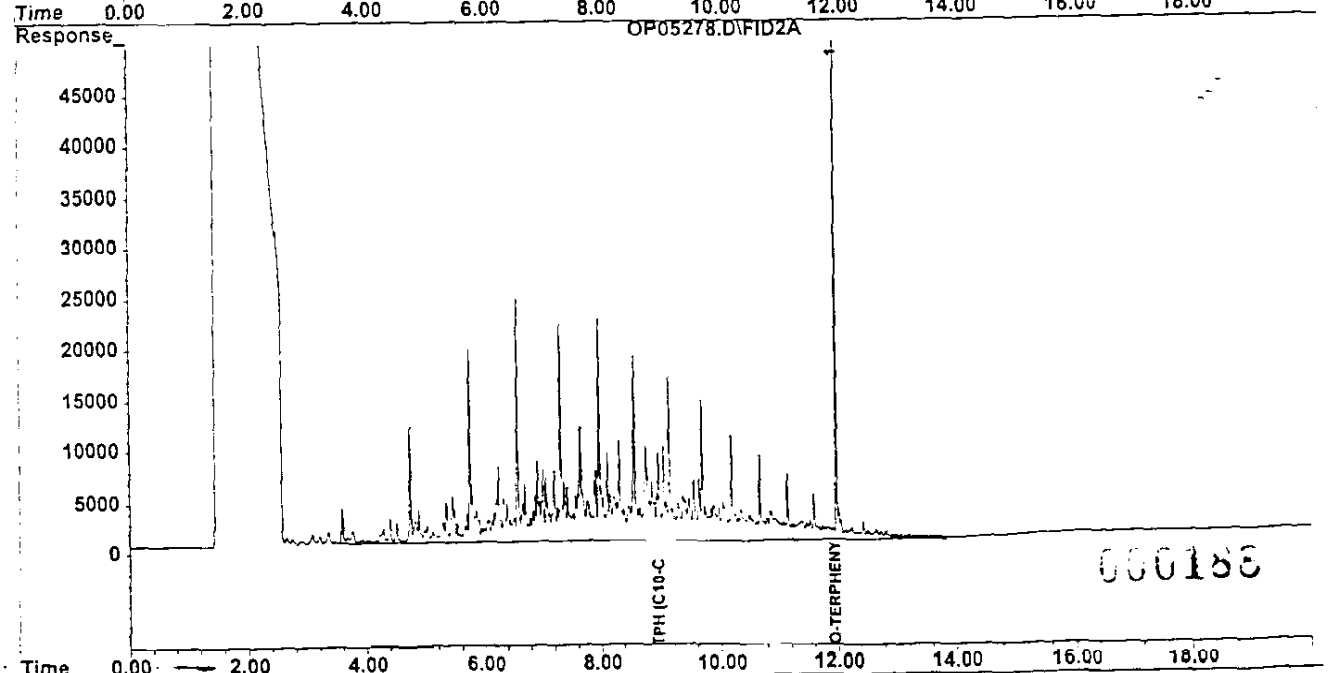
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05278.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05278.D\FID2A.CH
Acq On : 23 Sep 1999 10:18 am Operator: marke
Sample : 500ppm dro s649 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 10:39 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB 5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000188

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05278.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05278.D\FID2A.CH
Acq On : 23 Sep 1999 10:18 am Operator: marke
Sample : 500ppm dro s649 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 10:39 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.98	831658	798595	26.044	24.827
Spiked Amount	50.000	Range	40 - 140	Recovery	= 52.09%	49.65%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	15575475	14120608	510.959	512.721

000133

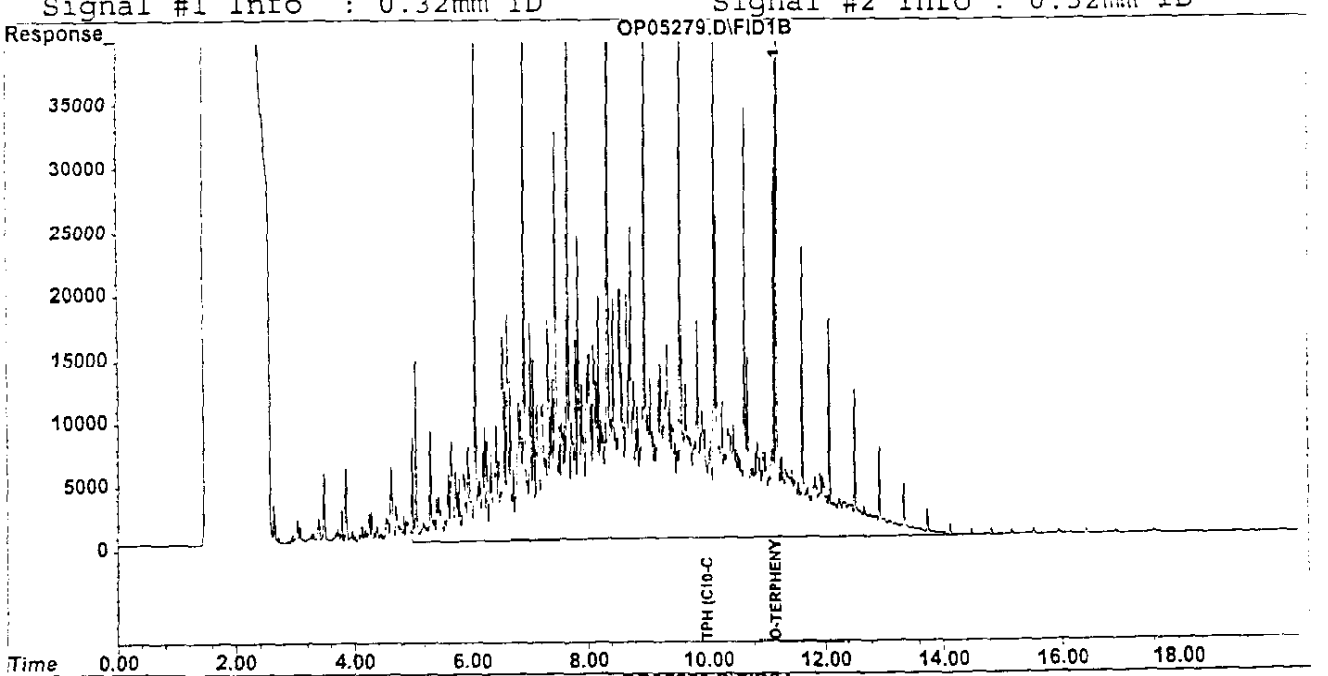
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

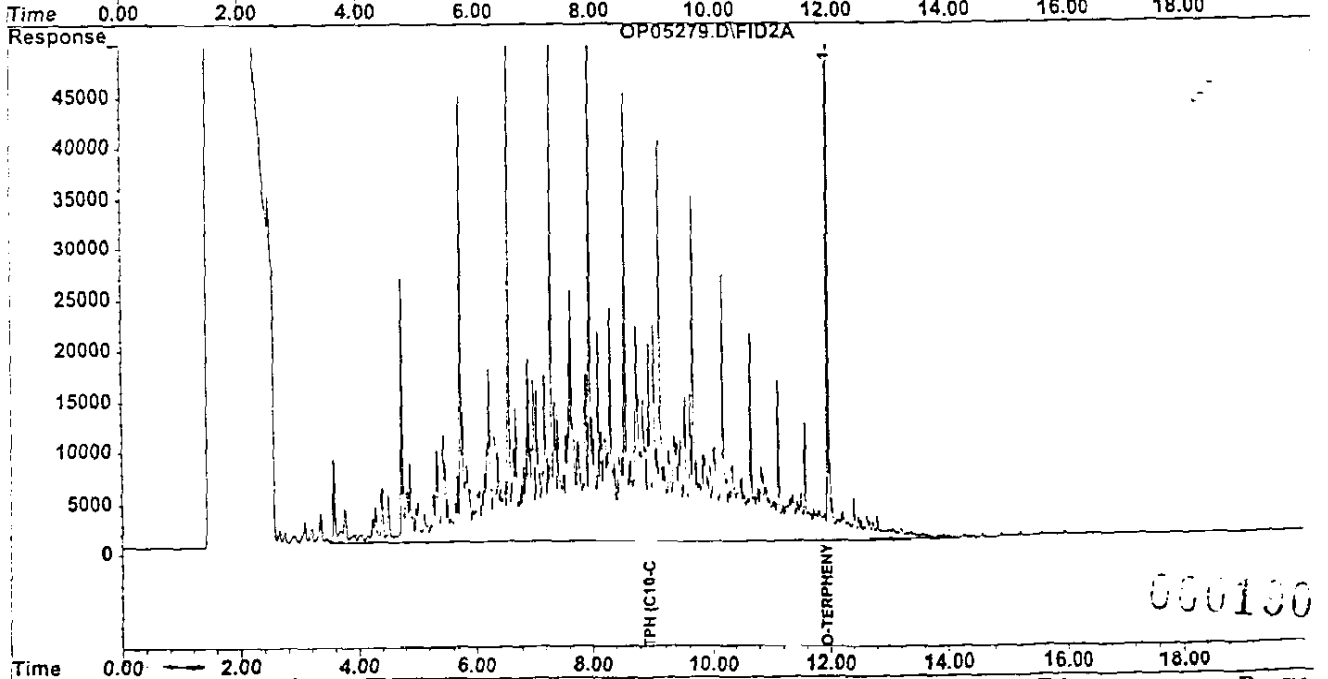
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05279.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05279.D\FID2A.CH
Acq On : 23 Sep 1999 10:44 am Operator: marke
Sample : 1000ppm dro s648 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 11:08 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000130

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05279.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05279.D\FID2A.CH
Acq On : 23 Sep 1999 10:44 am Operator: marke
Sample : 1000ppm dro s648 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 11:08 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.98	1853565	1818328	55.974m	55.111
Spiked Amount 50.000 Range 40 - 140 Recovery =					111.95%	110.22%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	35155756	32699857	1113.763	1140.819

000191

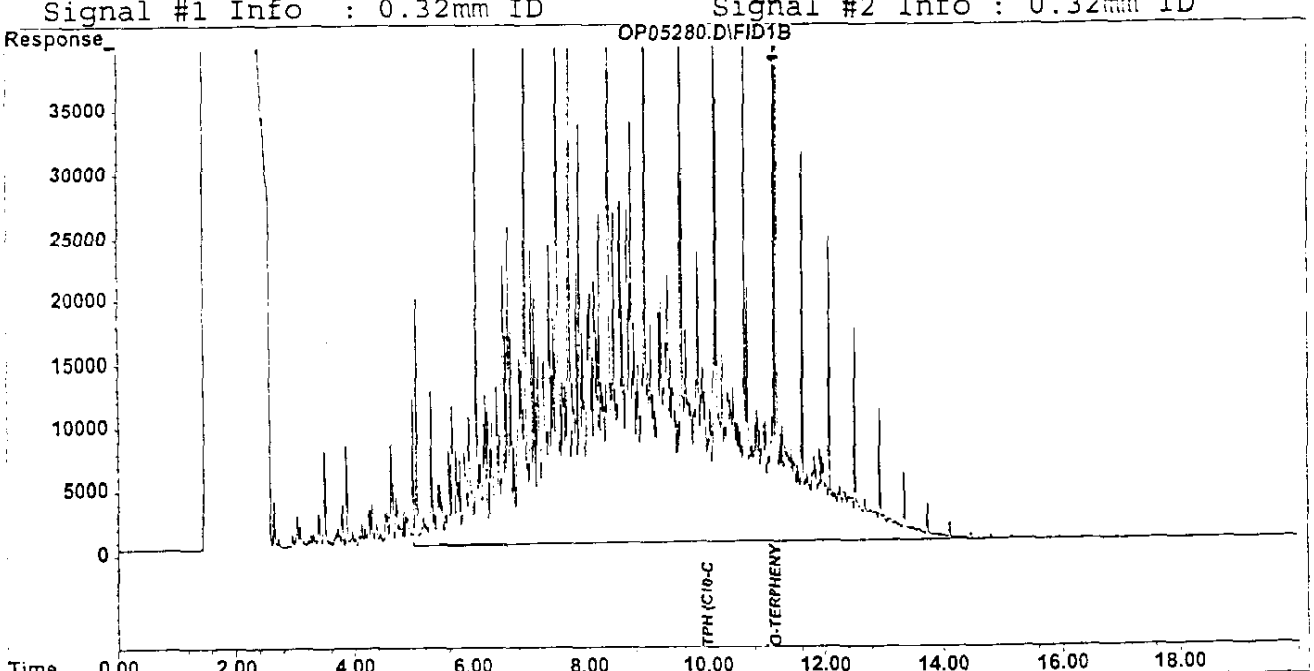
(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

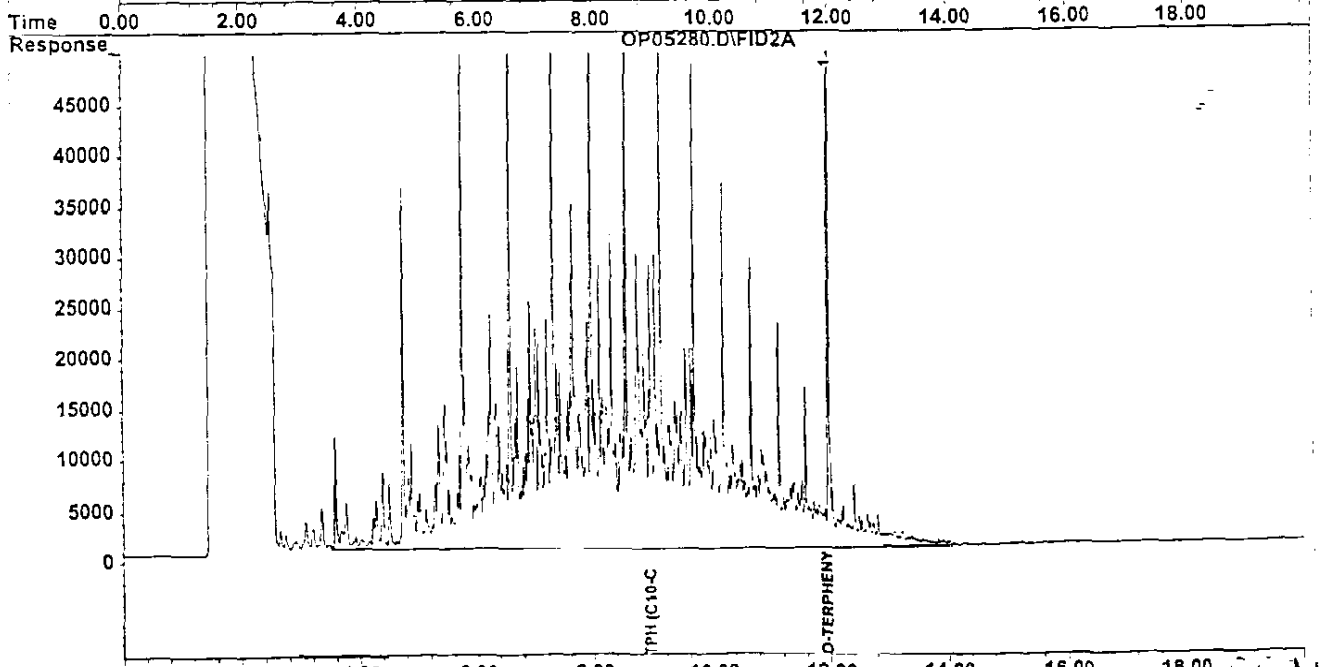
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05280.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05280.D\FID2A.CH
Acq On : 23 Sep 1999 11:11 am Operator: marke
Sample : 1500ppm dro s647 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:32 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB 5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05280.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05280.D\FID2A.CH
Acq On : 23 Sep 1999 11:11 am Operator: marke
Sample : 1500ppm dro s647 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:32 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.98	2512529	2518080	74.018m	74.819m
Spiked Amount 50.000 Range 40 - 140 Recovery = 148.04%# 149.64%#						
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	47977381	44934506	1482.245	1521.702

000193

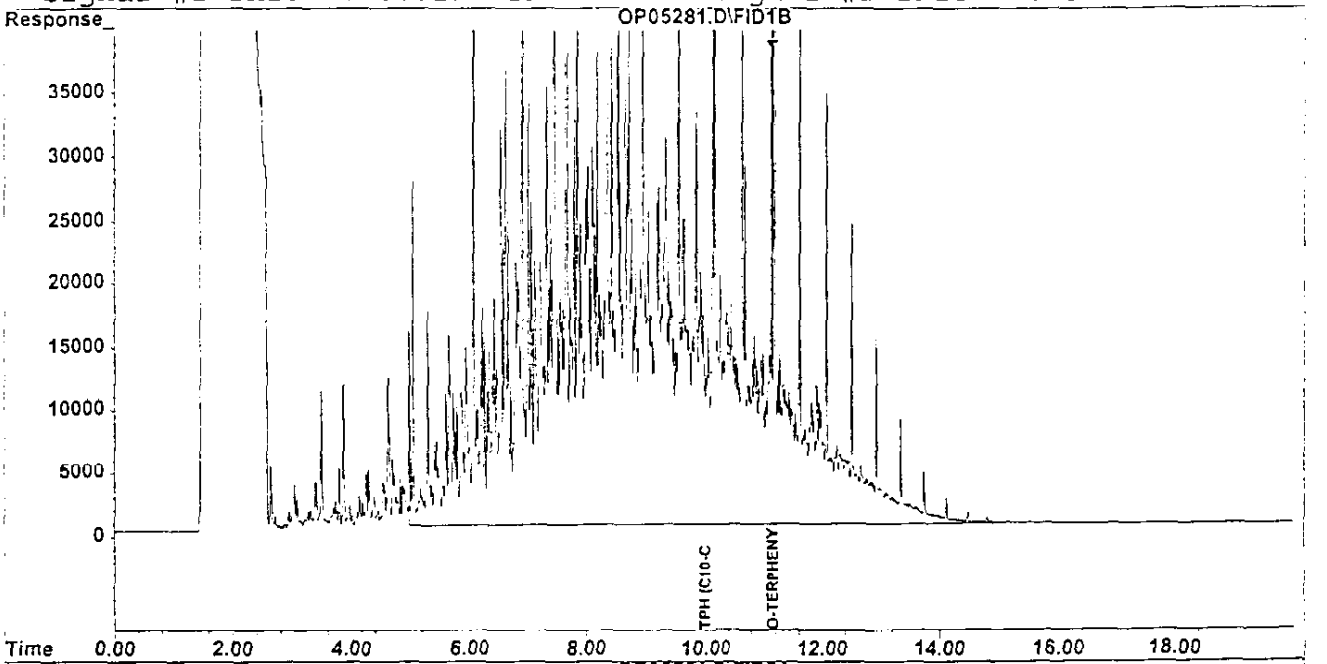
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

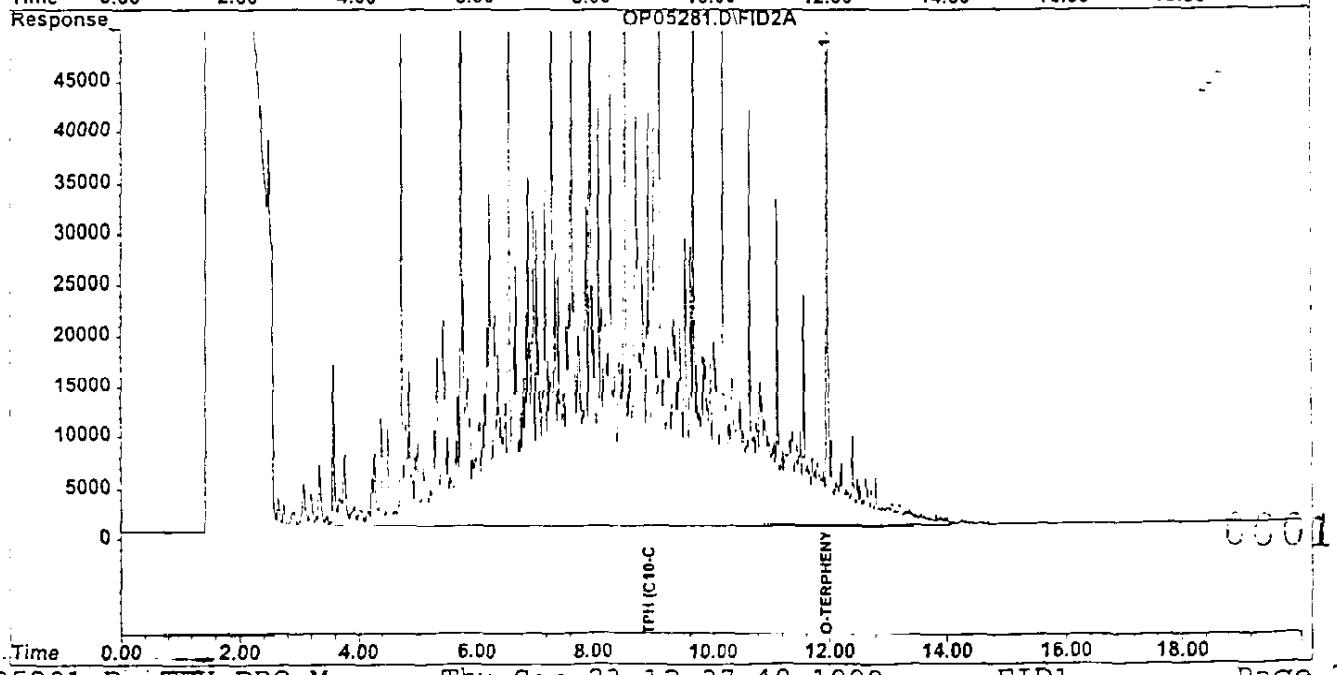
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05281.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05281.D\FID2A.CH
Acq On : 23 Sep 1999 11:38 am Operator: marke
Sample : 2000ppm dro s646 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:33 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000194

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05281.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05281.D\FID2A.CH
Acq On : 23 Sep 1999 11:38 am Operator: marke
Sample : 2000ppm dro s646 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:33 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.20	11.98	3615738	3563867	104.009m	103.750m
Spiked Amount 50.000 Range 40 - 140 Recovery = 208.02%# 207.50%#						
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	68607096	64569269	2071.856	2127.610

000195

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Response Factor Report FID 2

Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 12:34:11 1999

Calibration Files
1 =OP05277.D 2 =OP05278.D 3 =OP05279.D
4 =OP05280.D 5 =OP05281.D

	Compound	1	2	3	4	5	Avg	%RSD
1) S	O-TERPHENYL	3.729	3.327	3.707	3.350	3.616	3.546 E4	5.48
2) H	TPH (C10-C28)	3.564	3.115	3.516	3.198	3.430	3.365 E4	5.88

Signal #2 Calibration Files
1 =OP05277.D 2 =OP05278.D 3 =OP05279.D
4 =OP05280.D 5 =OP05281.D

	Compound	1	2	3	4	5	Avg	%RSD
1) S	O-TERPHENYL	3.669	3.194	3.637	3.357	3.564	3.484 E4	5.81
2) H	TPH (C10-C28)	3.151	2.824	3.270	2.996	3.228	3.094 E4	5.93

000196

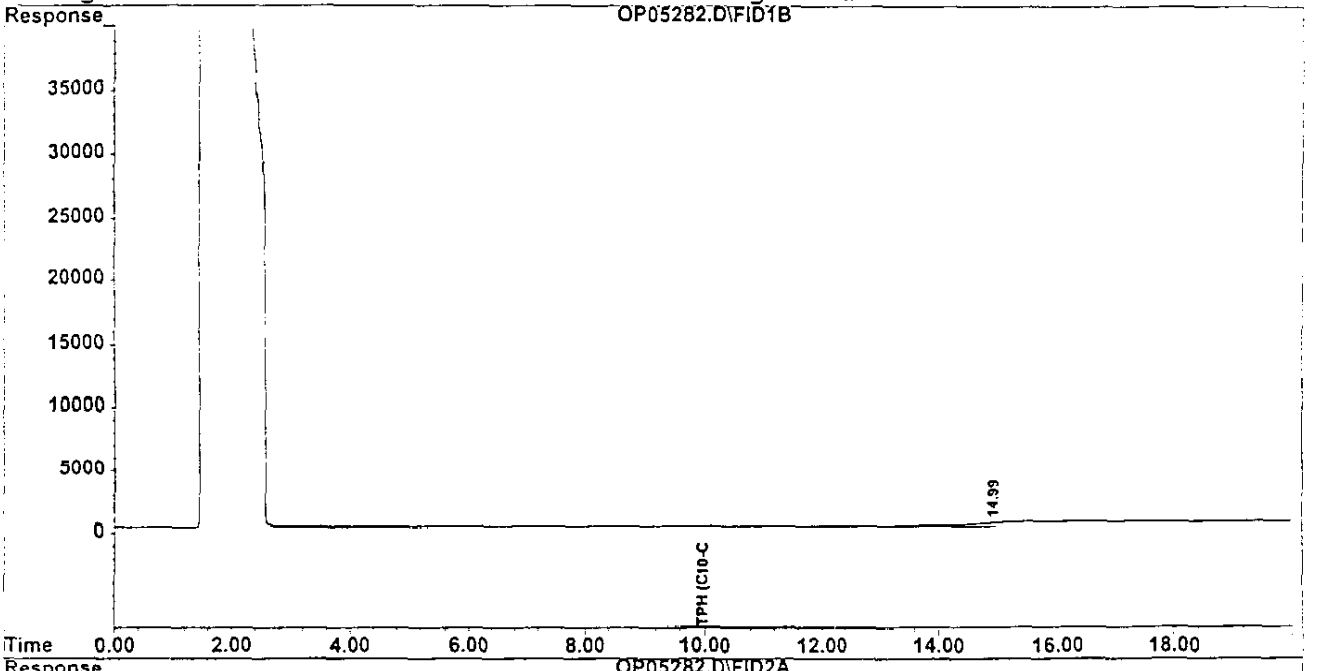
(#) = Out of Range

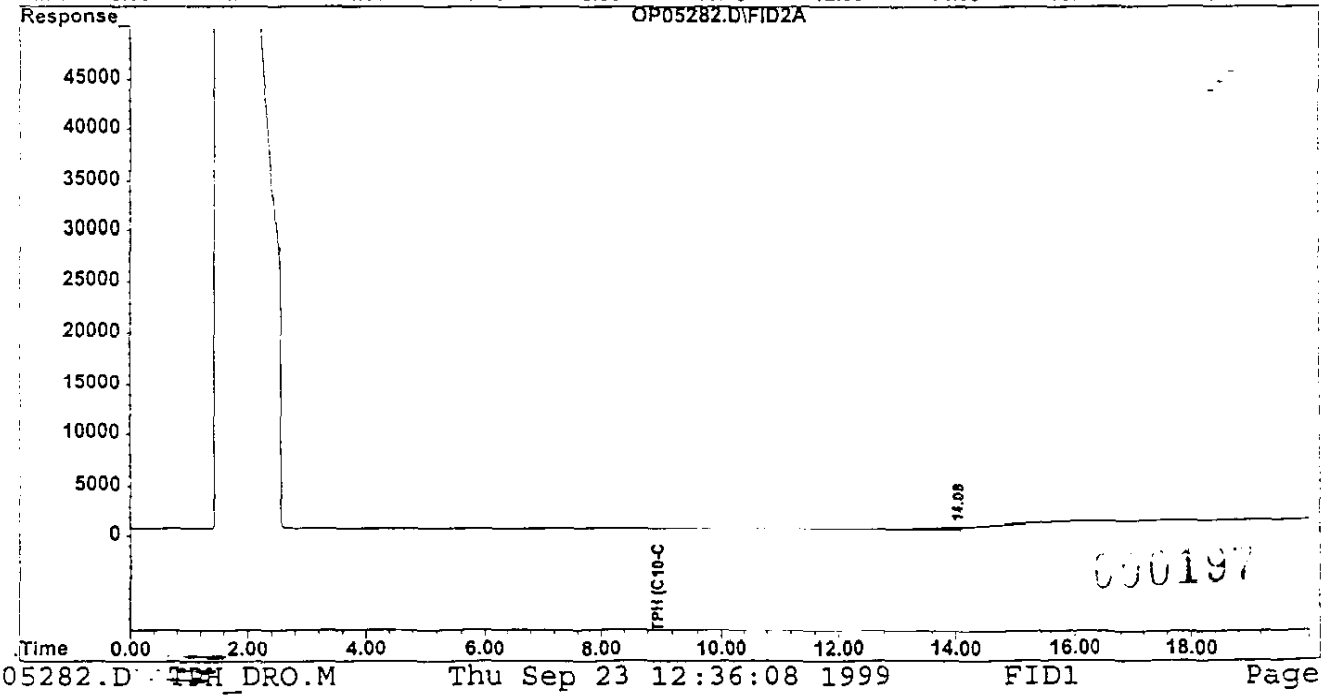
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05282.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05282.D\FID2A.CH
Acq On : 23 Sep 1999 12:04 pm Operator: marke
Sample : solvent blank Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:35 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000197

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05282.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05282.D\FID2A.CH
Acq On : 23 Sep 1999 12:04 pm Operator: marke
Sample : solvent blank Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:35 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 50.000	Range	40 - 140	Recovery	=	0.00%#	0.00%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	273044	252069	8.115	8.148

BDL

000198

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
OP05282.D TPH_DRO.M Thu Sep 23 12:36:07 1999 FID1 Page 1

CONTINUING CALIBRATION SUMMARY

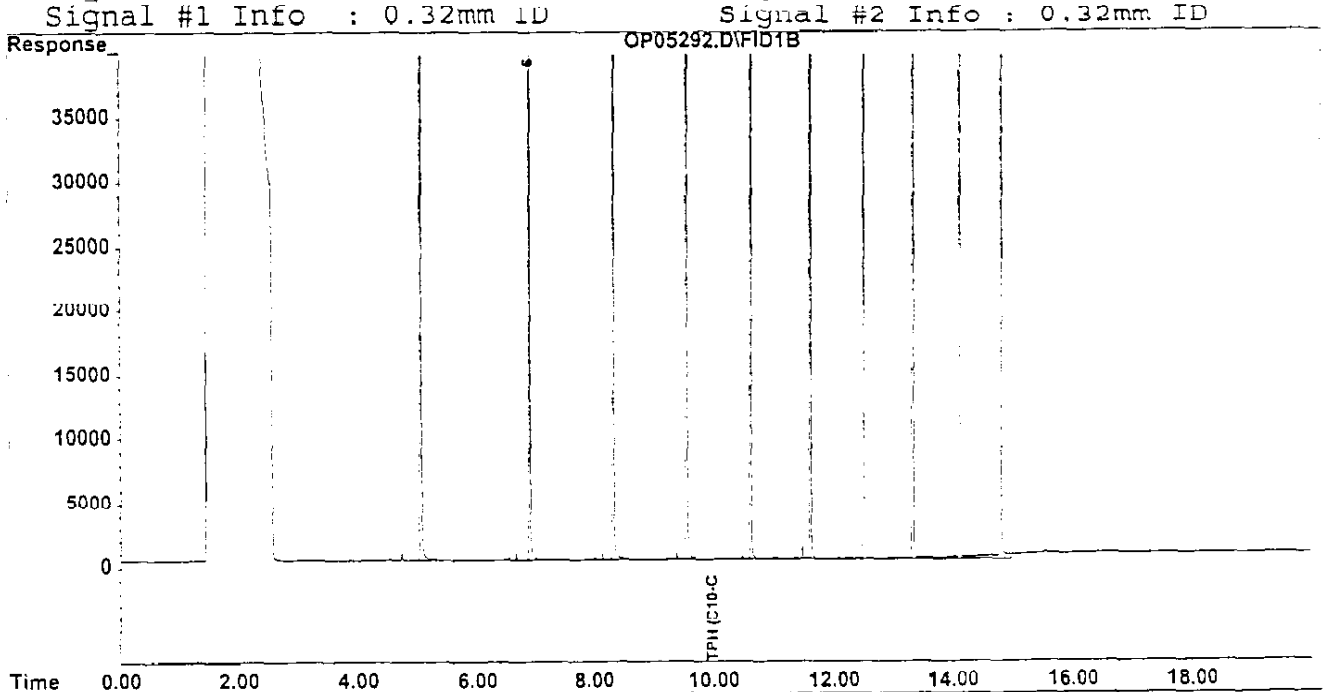
SGC.06

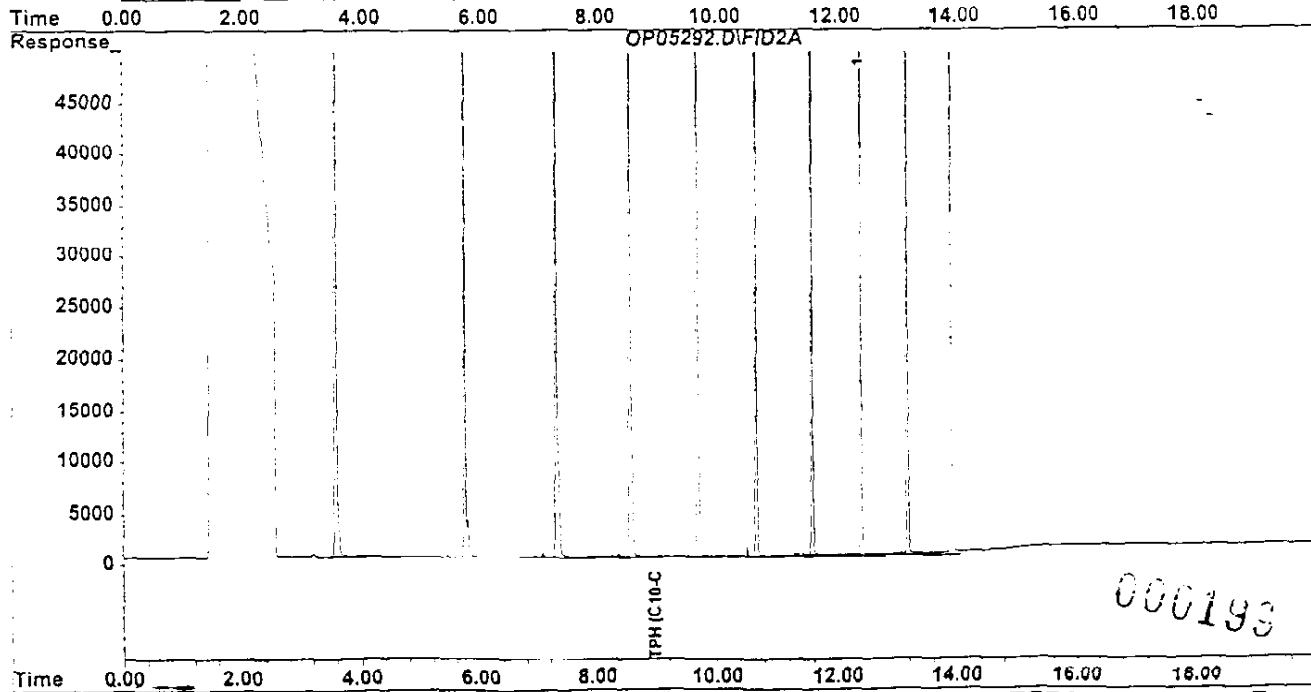
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05292.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05292.D\FID2A.CH
Acq On : 27 Sep 1999 1:25 pm Operator: marke
Sample : rt std DRO Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 13:53 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000193

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05292.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05292.D\FID2A.CH
Acq On : 27 Sep 1999 1:25 pm Operator: marke
Sample : rt std DRO Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 13:53 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 50.000	Range	40 - 140	Recovery	=	0.00%#	0.00%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	17388544	17130716	516.801	553.713

000...

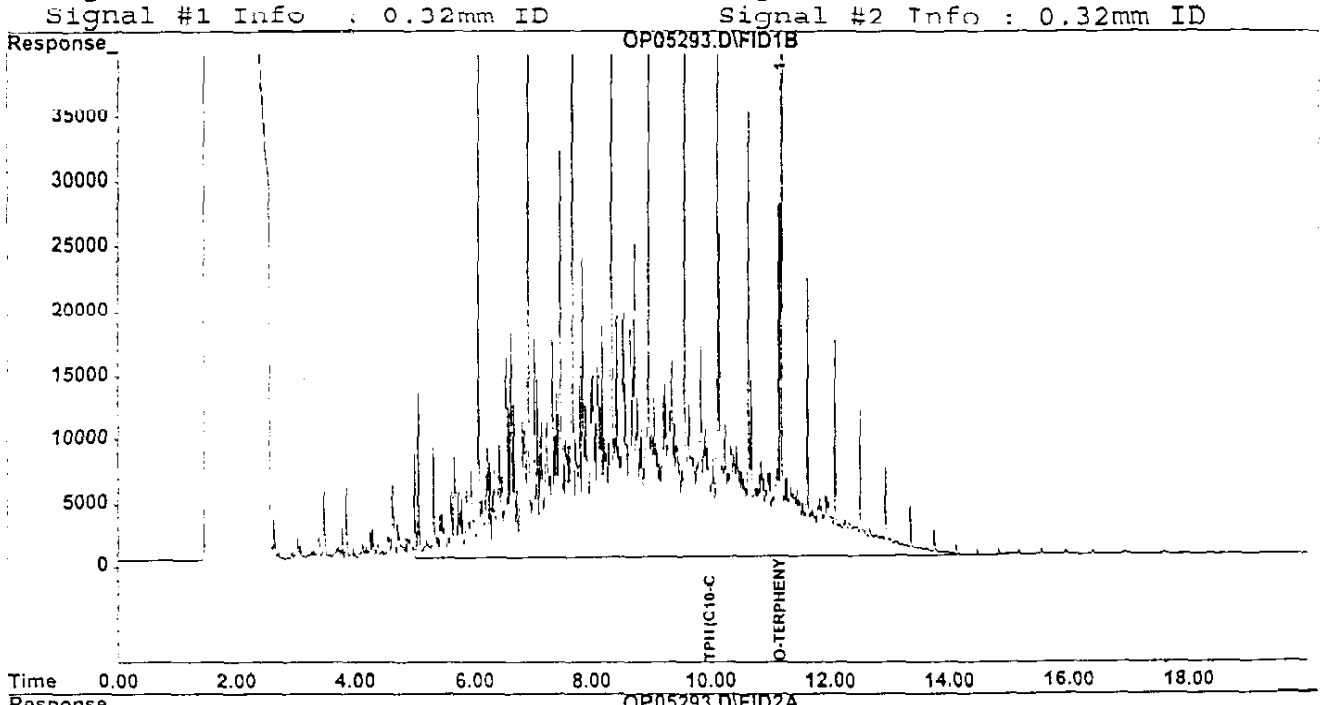
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

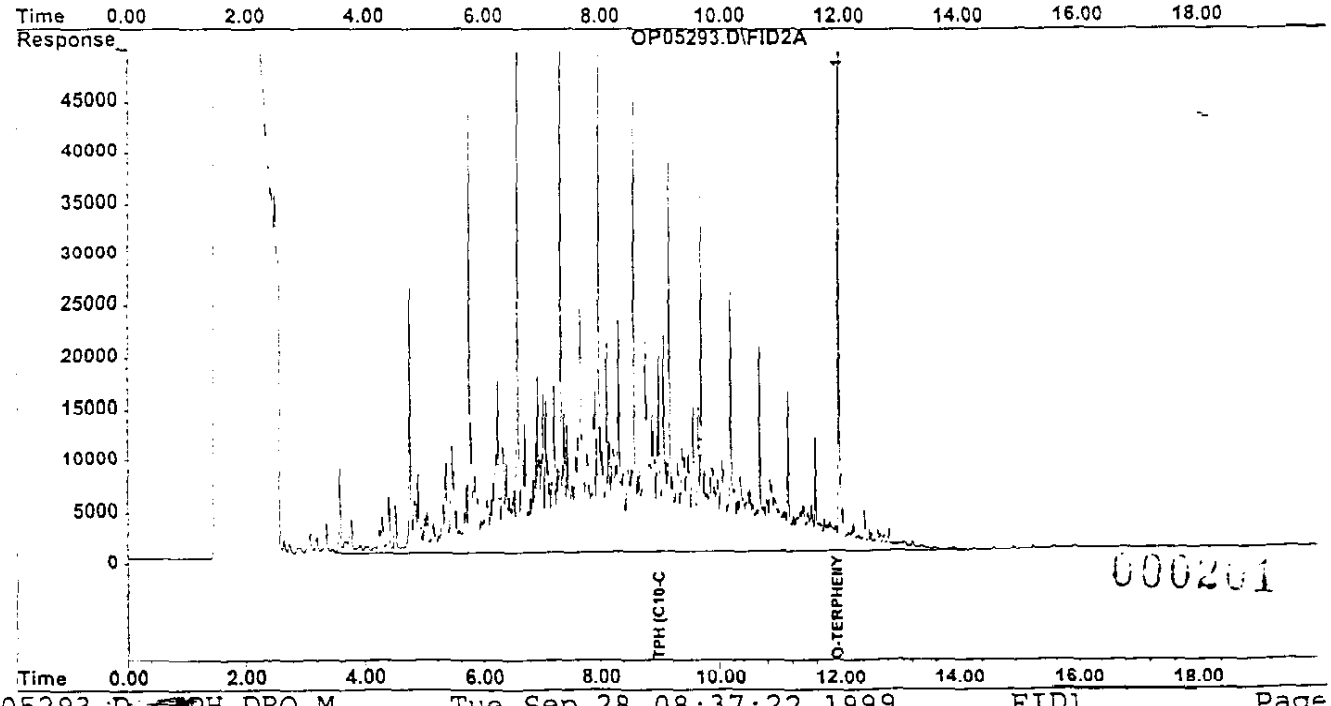
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID2A.CH
Acq On : 27 Sep 1999 1:52 pm Operator: marke
Sample : 1000ppm DRO ccv s648 Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 14:15 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000201

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID2A.CH
Acq On : 27 Sep 1999 1:52 pm Operator: marke
Sample : 1000ppm DRO ccv s648 Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 14:15 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.97	1792881	1816513	50.565m	52.135
Spiked Amount 50.000 Range 40 - 140 Recovery = 101.13% 104.27%						
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	34657083	32381464	1030.035	1046.660

0002

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID2A.CH
Acq On : 27 Sep 1999 1:52 pm Operator: marke
Sample : 1000ppm DRO ccv s648 Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	O-TERPHENYL	35.457	35.858 E3	-1.1	97	0.00
2	H	TPH (C10-C28)	33.647	34.657 E3	-3.0	99	0.00

Signal #2

1	S	O-TERPHENYL	34.843	36.330 E3	-4.3	100	0.00
2	H	TPH (C10-C28)	30.938	32.381 E3	-4.7	99	0.00

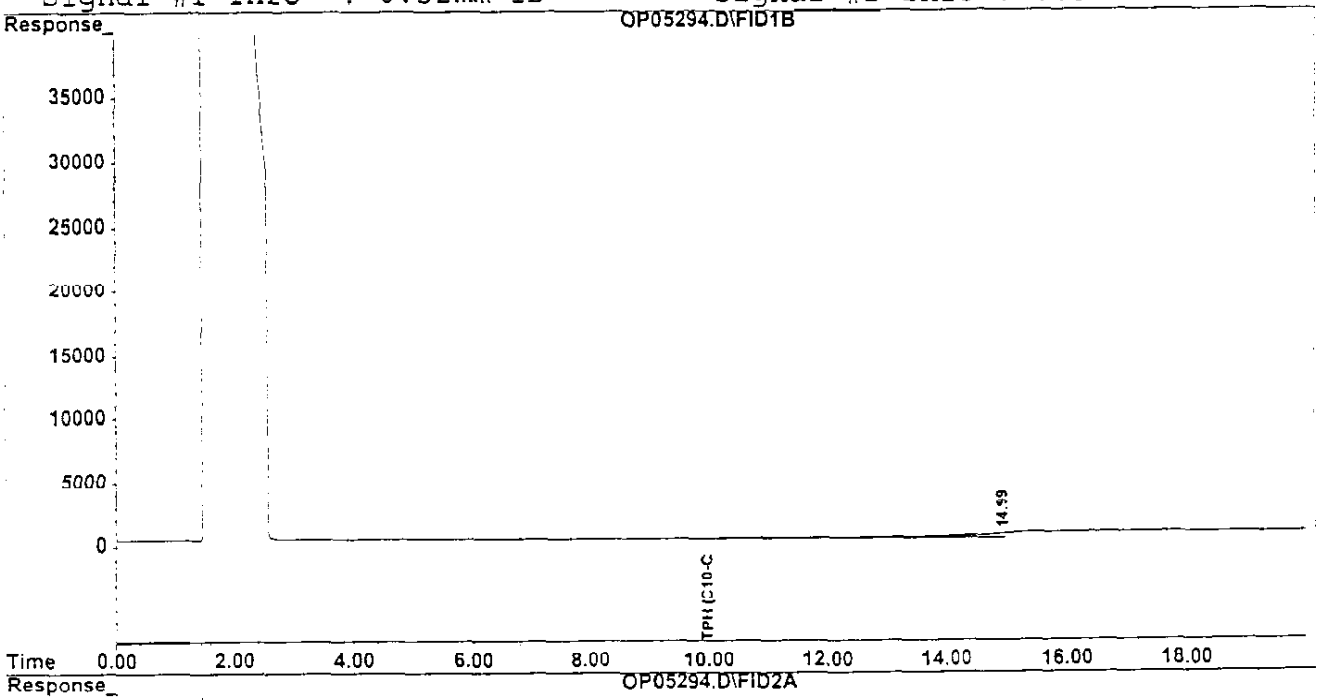
0002

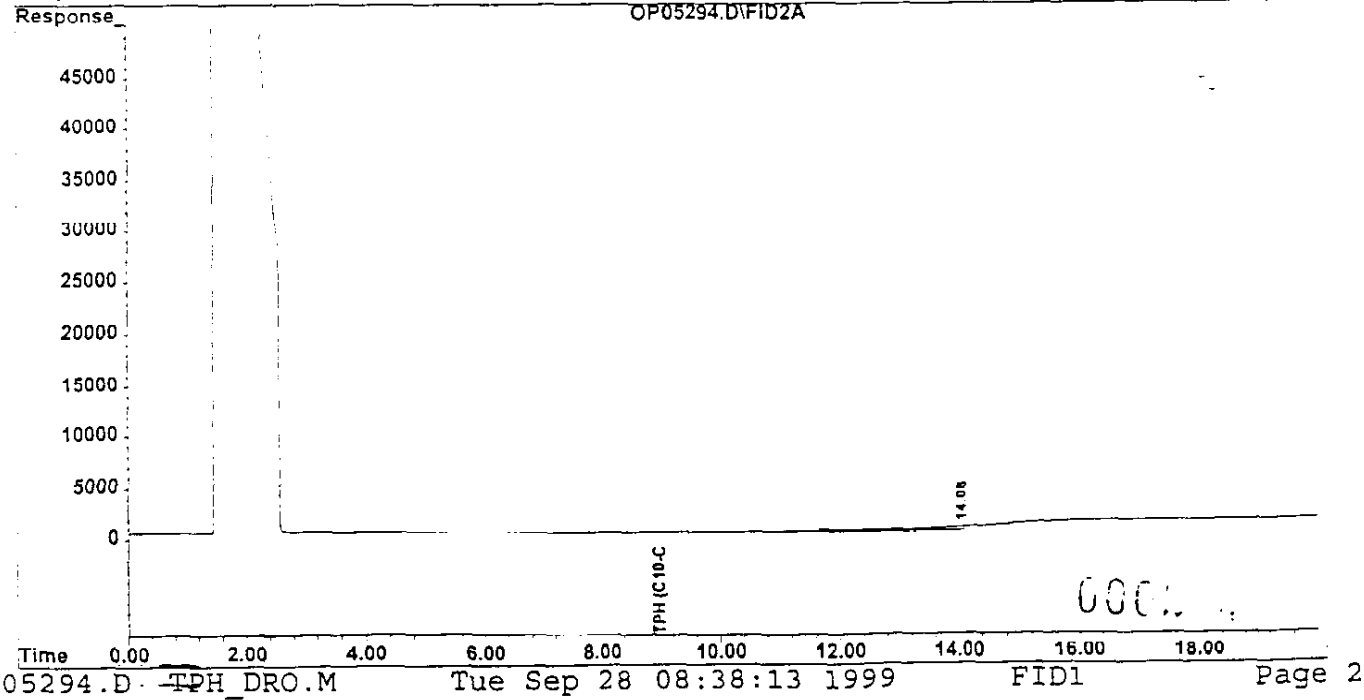
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05294.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05294.D\FID2A.CH
Acq On : 27 Sep 1999 2:19 pm Operator: marke
Sample : solvent blank Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 14:41 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05294.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05294.D\FID2A.CH
Acq On : 27 Sep 1999 2:19 pm Operator: marke
Sample : solvent blank Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 14:41 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 50.000	Range	40 - 140	Recovery	=	0.00%#	0.00%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	283629	283029	~~8.430~~	~~9.148~~

BDL

000205

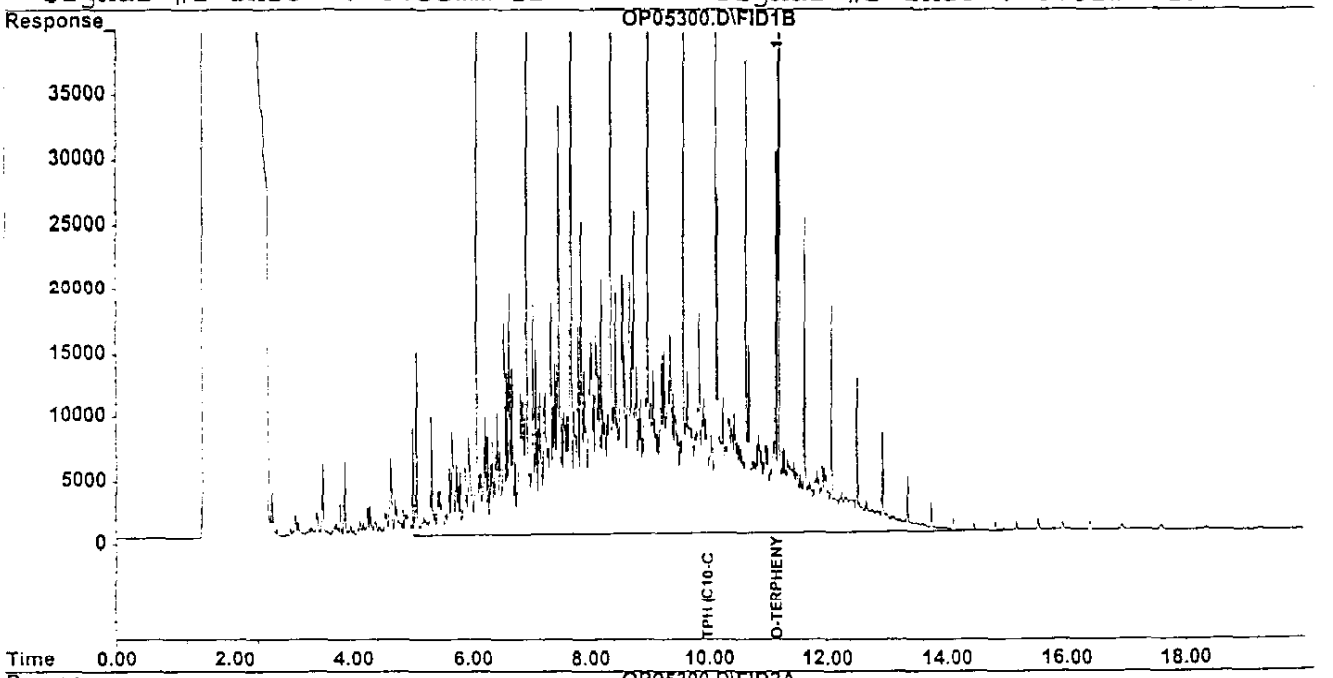
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

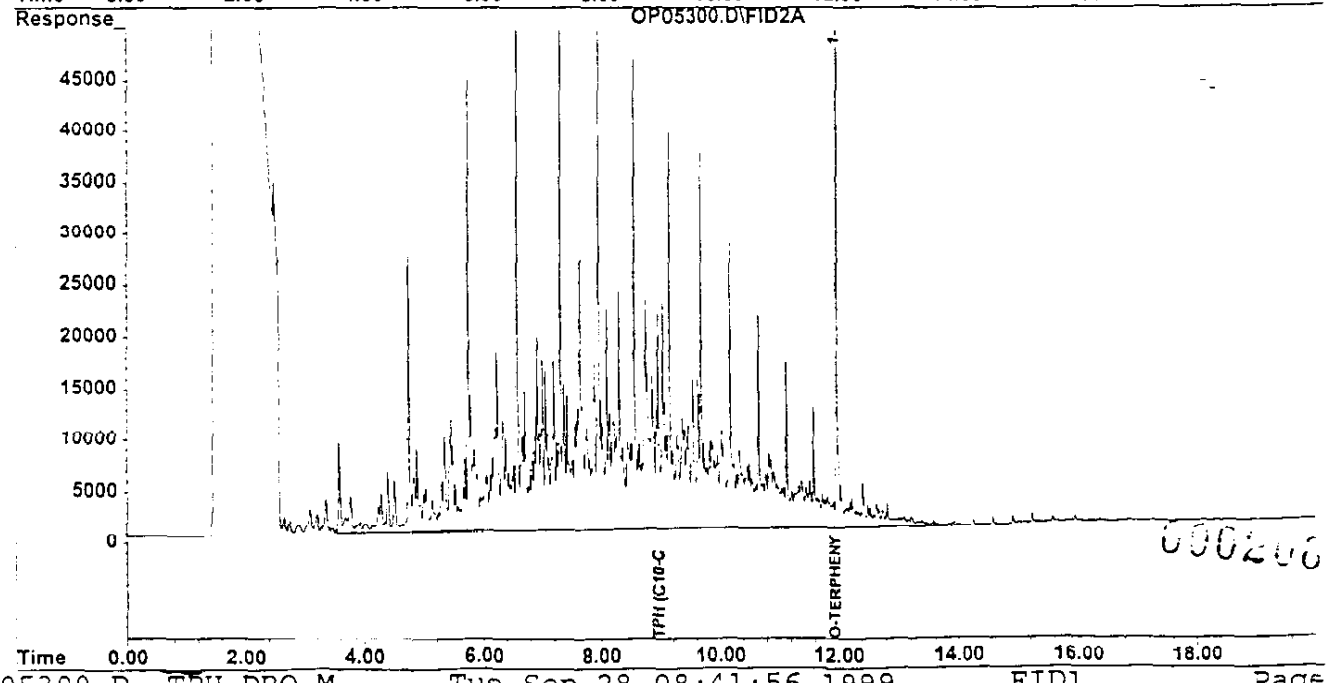
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID1B.CH Vial: 9
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID2A.CH
Acq On : 27 Sep 1999 5:47 pm Operator: marke
Sample : 1000ppm DRO ccv Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:30 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000200

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID1B.CH Vial: 9
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID2A.CH
Acq On : 27 Sep 1999 5:47 pm Operator: marke
Sample : 1000ppm DRO ccv Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:30 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.97	1900930	1913177	53.613m	54.909m
Spiked Amount 50.000 Range 40 - 140 Recovery = 107.23% 109.82%						
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	36430645	33741566	1082.746	1090.623

000207

(f)=RT Delta-> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
OP05300.D TPH DRO.M Tue Sep 28 08:41:55 1999 FID1 Page 1

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID1B.CH Vial: 9
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID2A.CH
Acq On : 27 Sep 1999 5:47 pm Operator: marke
Sample : 1000ppm DRO ccv Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	O-TERPHENYL	35.457	38.019 E3	-7.2	103	0.00
2	H	TPH (C10-C28)	33.647	36.431 E3	-8.3	104	0.00

Signal #2

1	S	O-TERPHENYL	34.843	38.264 E3	-9.8	105	0.00
2	H	TPH (C10-C28)	30.938	33.742 E3	-9.1	103	0.00

000208

(#) = Out of Range SPCC's out = 0 CCC's out = 0

SEQUENCE LOG SUMMARY

SGC.07

Sequence Name: C:\HPCHEM\2\SEQUENCE\0927DRO.S
Comment:
Operator: marke
Data Path: C:\HPCHEM\2\DATA\0927DRO\
Pre-Seq Cmd:
Post-Seq Cmd:

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	1	OP05292	TPH_DRO	rt std DRO
2	Sample	2	OP05293	TPH_DRO	1000ppm DRO ccv s648
3	Sample	3	OP05294	TPH_DRO	solvent blank
4	Sample	4	OP05295	TPH_DRO	f4929-1,10
5	Sample	5	OP05296	TPH_DRO	f4941-1
6	Sample	6	OP05297	TPH_DRO	f4929-1
7	Sample	7	OP05298	TPH_DRO	op986-mb3
8	Sample	8	OP05299	TPH_DRO	op986-bs3
9	Sample	9	OP05300	TPH_DRO	1000ppm DRO ccv

000209

GC ANALYSIS LOG

DATE: 9/27/99	METHODS: TPH DRO	ANALYST: AE
COLUMN TYPE: DB-5/17	METHOD FILE: TPH DRO	RUN BATCH: OOP254
INSTRUMENT: FID2	CALIB. DATE: 9/23/99	AMOUNT INJECTED: 2 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	SAMPLE AMOUNT	MATRIX	EXT. BATCH	DILUTION FACTOR	RUN OK	COMMENTS
OP05292	1	BTStd DRO	TPH-DRO					✓	
93	2	100ppm DRO ccv						✓	SG48 passed
94	3	Solvent Blank						✓	BDL
95	4	F4929-1		Seconds/ml	W	OP986	x10	✓	BDL
96	5	F4941-1					x1	✓	BDL
97	6	F4929-1						✓	BDL
98	7	OP986-AB3							BDL
99	8	-BS3							✓
300	9	100ppm DRO ccv							SG48 passed

9/28/99

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample A[illegible]nt: Initial Sample Weight (g) or Volume (ml) / Final Volu[illegible] (ml)

Analyst's Signature: [signature]

Sequence Name: C:\HPCHEM\2\SEQUENCE\0923DRO.S
Comment:
Operator: marke
Data Path: C:\HPCHEM\2\DATA\0923DRO\
Pre-Seq Cmd:
Post-Seq Cmd:

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	1	OP05276	TPH_DRO	dro rt std c10-c28
2	Sample	2	OP05277	TPH_DRO	250ppm dro s650
3	Sample	3	OP05278	TPH_DRO	500ppm dro s649
4	Sample	4	OP05279	TPH_DRO	1000ppm dro s648
5	Sample	5	OP05280	TPH_DRO	1500ppm dro s647
6	Sample	6	OP05281	TPH_DRO	2000ppm dro s646
7	Sample	7	OP05282	TPH_DRO	solvent blank
8	Sample	8	OP05283	TPH_DRO	op994-mb
9	Sample	9	OP05284	TPH_DRO	op994-bs
10	Sample	10	OP05285	TPH_DRO	f4924-1
11	Sample	11	OP05286	TPH_DRO	f4924-2
12	Sample	12	OP05287	TPH_DRO	f4924-3
13	Sample	13	OP05288	TPH_DRO	op994-ms
14	Sample	14	OP05289	TPH_DRO	op994-msd
15	Sample	15	OP05290	TPH_DRO	f4924-4
16	Sample	16	OP05291	TPH_DRO	1000ppm DRO ccv s648

000211

GC ANALYSIS LOG

DATE: 9/9	METHODS: TPH DRO	ANALYST: MF
COLUMN TYPE: DB-5/17	METHOD FILE: TPH-DRO	RUN BATCH: GOP2S3
INSTRUMENT: FID2	CALIB. DATE: 9/23/99	AMOUNT INJECTED: 2 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	SAMPLE AMOUNT	MATRIX	EXT. BATCH	DILUTION FACTOR	RUN OK	COMMENTS
DR05276	1	RT STD DRO (10-C28)	TPHDRO					✓	
77	2	250ppm DRO						✓	S650
78	3	500						✓	S649
79	4	1000						✓	S648
80	5	1500						✓	S647 curve
81	6	2000						✓	S646 passed
82	7	Solvent Blank						✓	BDL
83	8	OP994-MB		30.0g/1ml	S	OP994	x1		BDL
84	9	-BS							✓
85	10	F4424-1							DRO=42
86	11	-2							DRO=34
87	12	-3							DRO=17
88	13	OP944-MS							✓
89	14	-MSD							✓
90	15	F4424-4							BDL
91	16	1000 ppm DRO							S648 passed

9-12-99

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: [signature]

EXTRACTION LOG SUMMARY

SGC.08

LIQUID SAMPLE PREP REPORT

Date: 9.27.99 Method*: DRO Batch#: OP986

Batch Started On: 9.17.99. Prior Number Of Samples in Batch: 7 Analyst: NJ/v.m/MS/RA.

Sample ID	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP986 MB ξ	500 ml	7	<2	0.5 ml		1.0 ml	
BS ξ	↓	↓	↓	↓	0.5 ml	↓	
F4929-1	↓	↓	↓	↓		↓	
F4941-1	↓	↓	↓	↓		↓	
MS							
MSD							
DUP							

Surrogate ID: E458 Conc: 100 ppm Exp. Date: 2-16-00 Bath Temp.: 70°c

Spike ID: E462 Conc: 2000 ppm Exp. Date: 2-8-00 Bath Temp2.: RT

CH2CL2 Lot #: 994655 Hexane Lot #_____ Other (specify)_____

Reagent # 317020 - H_2SO_4 Reagent #_____ Reagent #_____

Comments:

000213

Relinquished By: [signature] Date: 9-27-99

Accepted By: [signature] Date: 9-27-99

*Prep method for SW846 methods is 3510C for waters and 3580A for non-aqueous liquids.

SAMPLE RESULT SUMMARY

Report of Analysis

Client Sample ID:	GP.10.01		
Lab Sample ID:	F4929-1	**Date Sampled:**	09/22/99
Matrix:	AQ - Ground Water	**Date Received:**	09/23/99
		Percent Solids:	n/a
Project:	Bainbridge		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By	Method
Turbidity	49800	2000	NTU	2000	09/24/99 EP	EPA 180.1

RDL = Reported Detection Limit

CALIBRATION STANDARD SUMMARY

GEN.02

NOT APPLICABLE TO THIS REPORT

METHOD BLANK SUMMARY

NOT APPLICABLE TO THIS REPORT

SPIKE SAMPLE RECOVERIES

NOT APPLICABLE TO THIS REPORT

LABORATORY DUPLICATE SAMPLE RECOVERIES

GEN.05

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F4929
Account: ITPAMONR - IT Corporation
Project: ITPAMONR1597 - Bainbridge

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Turbidity	GN4441	F4929-1	NTU	49800	50600	1.6	0-10%

Associated Samples:
Batch GN4441: F4929-1

000218

LABORATORY CONTROL (BLANK SPIKE) SAMPLE RECOVERIES

GEN.06

NOT APPLICABLE TO THIS REPORT

PREPARATION LOG

GEN.07

Turbidity:_____ **method:** 180.1

	Blk	STD1	STD2	STD3	Units: NTU	MDL: 1.0
CONC:	0.00	4.00	40.0			
Reading	0.00	4.00	40.0			

sample #	Turbidity Reading	Dilution	Final Result	MDL	Units	
F4939-1	24.9	1:2000	49800	2000	NTU	
↓ -1 dup	25.3	↓	50600	↓	↓	1.6 RF
F4941-1	22.5	1:400	9000	400	↓	

Analyst's Signature: [signature] Date: 9/24/99

QC Reviewer:_____ Date:_____

Comments: 0062 GW4441

ACCUTEST

10/05/99

Technical Report for

IT Corporation

Bainbridge

Accutest Job Number: F4941

Report to:

IT Corporation
2790 Mosside Blvd.
Monroeville, PA 15146

ATTN: Larry Stearns

Total number of pages in report: 235

Harry Behzadi, Ph.D.
Laboratory Director

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TABLE OF CONTENTS
FULL LABORATORY DATA DELIVERABLES

1. TITLE / COVER PAGE

2. TABLE OF CONTENTS

3. RESULTS SUMMARY

4. CUSTODY DOCUMENTATION

5. CASE NARRATIVE

6. GC/MS SUPPORT DATA (SW846- METHOD 8260)

6.1	Sample Result Summary	VOC.01
6.2	Surrogate Recoveries Summary	VOC.02
6.3	Matrix Spike / Matrix Spike Duplicate / Blank Spike Summary	VOC.03
6.4	Method Blank Summary	VOC.04
6.5	Tune Summary	VOC.05
6.6	Initial Calibration Summary	VOC.06
6.7	Continuing Calibration Summary	VOC.07
6.8	Internal Standard/ RT Summary	VOC.08
6.9	Sequence Log Summary	VOC.09

7. GC/MS SUPPORT DATA (SW846- METHOD 8015)

7.1	Sample Result Summary	VGC.01
7.2	Surrogate Recoveries Summary	VGC.02
7.3	Matrix Spike / Matrix Spike Duplicate / Blank Spike Summary	VGC.03
7.4	Method Blank Summary	VGC.04
7.5	Initial Calibration Summary	VGC.05
7.6	Continuing Calibration Summary	VGC.06
7.7	Internal Standard/ RT Summary	VGC.07
7.8	Sequence Log Summary	VGC.08

8. GC SUPPORT DATA (SW846- METHOD 8081)

8.1	Sample Result Summary	SGC.01
8.2	Surrogate Recoveries Summary	SGC.02
8.3	Matrix Spike / Matrix Spike Duplicate / Blank Spike Summary	SGC.03
8.4	Method Blank Summary	SGC.04
8.5	Initial Calibration Summary	SGC.05
8.6	Continuing Calibration Summary	SGC.06
8.7	Sequence Log Summary	SGC.07
8.8	Extraction Log Summary	SGC.08

9. GC SUPPORT DATA (SW846- METHOD 8015M)

9.1	Sample Result Summary	SGC.01
9.2	Surrogate Recoveries Summary	SGC.02
9.3	Matrix Spike / Matrix Spike Duplicate / Blank Spike Summary	SGC.03
9.4	Method Blank Summary	SGC.04

000002

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9.5	Initial Calibration Summary	SGC.05
9.6	Continuing Calibration Summary	SGC.06
9.7	Sequence Log Summary	SGC.07
9.8	Extraction Log Summary	SGC.08

10. GEN. CHEM. SUPPORT DATA

10.1	Sample Result Summary	GEN.01
10.2	Calibration Standard Summary	GEN.02
10.3	Method Blank Summary	GEN.03
10.4	Spike Sample Recovery Summary	GEN.04
10.5	Laboratory Duplicate Summary	GEN.05
10.6	Laboratory Control Sample Summary	GEN.06

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Sample Summary

IT Corporation

Bainbridge

Job No: F4941

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F4941-1	09/23/99	11:50 SS	09/24/99	AQ	Ground Water	GP.01.01

000003

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Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0010600.D	1	09/27/99	CJP	n/a	n/a	VG289
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
107-02-8	Acrolein	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

000004

ACCUTEST

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0010600.D	1	09/27/99	CJP	n/a	n/a	VG289
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	2.0	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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ACCUTEST

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0010600.D	1	09/27/99	CJP	n/a	n/a	VG289
Run #2							

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868 53-7	Dibromofluoromethane	91%		80-116%
17060-07-0	1,2-Dichloroethane-D4	77%		74-120%
2037-26-5	Toluene-D8	109%		80-120%
460-00-4	4-Bromofluorobenzene	104%		86-115%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV000102.D	1	09/27/99	RAW	n/a	n/a	GUV1
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		75-125%
98-08-8	aaa-Trifluorotoluene	98%		75-125%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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ACCUTEST

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 3510C/8081A	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST00707.D	1	09/27/99	SKW	09/27/99	OP956	GST28
Run #2							

Pesticide TCL List

CAS No.	Compound	Result	RDL	Units	Q
309-00-2	Aldrin	ND	0.050	ug/l	
319-84-6	alpha-BHC	ND	0.050	ug/l	
319-85-7	beta-BHC	ND	0.050	ug/l	
319-86-8	delta-BHC	ND	0.050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	ug/l	
5103-71-9	alpha-Chlordane	ND	0.10	ug/l	
5103-74-2	gamma-Chlordane	ND	0.10	ug/l	
60-57-1	Dieldrin	ND	0.050	ug/l	
72-54-8	4,4'-DDD	ND	0.10	ug/l	
72-55-9	4,4'-DDE	ND	0.10	ug/l	
50-29-3	4,4'-DDT	ND	0.10	ug/l	
72-20-8	Endrin	ND	0.10	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	ug/l	
53494-70-5	Endrin ketone	ND	0.10	ug/l	
959-98-8	Endosulfan-I	ND	0.050	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	ug/l	
76-44-8	Heptachlor	ND	0.050	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	ug/l	
72-43-5	Methoxychlor	ND	0.20	ug/l	
8001-35-2	Toxaphene	ND	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		30-160%
2051-24-3	Decachlorobiphenyl	67%		30-160%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 8015 M	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	OP05296.D	1	09/27/99	ME	09/27/99	OP986	GOP254
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C10-C28)	ND	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		40-140%

(a) Sample not preserved, adjusted to pH < 2 prior to extraction.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
		Percent Solids:	n/a
Project:	Bainbridge		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By	Method
Turbidity	9000	400	NTU	400	09/24/99 EP	EPA 180.1

RDL = Reported Detection Limit

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 559856
Page 1 of 1

Project Name/No. [1] Bainbridge
Sample Team Members [2] Seger
Profit Center No. [3] —
Project Manager [4] L Stearns
Purchase Order No. [6]
Required Report Date [11] 3 days

Samples Shipment Date [7] 9-23-99
Lab Destination [8] Accutest
Lab Contact [9] (407)425-6700
Project Contact/Phone [12] (410)378-3450 Dick Treater
Carrier/Waybill No. [13] FED-EX 7907 7492 8576

Bill to: [5] IT Corporation
2790 Mosside Blvd
Monroeville PA 15146

Final Report to: [10] ~~[illegible]~~ Larry Stearns
IT Corp 2790 Mosside Blvd
Monroeville, PA 15146

ONE CONTAINER PER LINE

Sample Number [14]	Sample Description/Type [15]	Date/Time Collected [16]	Container Type [17]	Sample Volume [18]	Pre-servative [19]	Requested Testing Program [20]	Condition on Receipt [21]	Disposal Record No. [22]
GP 01-01	Groundwater	9/23/99 11:50	VOCs - 4 Amber - 2 Plastic - 1	40ml x 4 950ml x 2 500ml	HCL — —	BTEX, GRO (8260B, 8015M) Pesticides, PRO (8051, 8015M) Turbidity, CFA 6020 (8011)	VOCs (8260B)	

Email results to Dorothy Small

Special Instructions: [23] ~~Fax Results to L. Stearns (412)380-0699~~ 3 day TAT *Add VOCs

Possible Hazard Identification: [24]
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: [25]
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

Turnaround Time Required: [26]
Normal ☐ Rush ☒ 3 day

QC Level: [27]
I. ☐ II. ☐ III. ☒ Project Specific (specify): Navy NFESC Level C

1. Relinquished by [28] (Signature/Affiliation) Susan Seger / IT	Date: 9-23-99 Time: 1430	1. Received by [28] (Signature/Affiliation) [signature]	Date: 9-24-99 Time: 1400
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: [29] Also fax results to Dick Treater (410)378-3232 ~~[illegible]~~

White: To accompany samples
Yellow: Field copy
*See back of form for special instructions.

Accutest Laboratories Southeast
Case Narrative

Job (SDG) No.: F4941

Samples: 1

Analysis Performed: See COC

1) Sample Receipt Conformance / Non-Conformance Summary

Custody Seals on Coolers?	Yes (✓)	No ( )
Custody Seals in Tact?	Yes (✓)	No ( )
Chain of Custody Sealed in Plastic?	Yes (✓)	No ( )
Chain of Custody Filled out Properly?	Yes (✓)	No ( )
Enough ice and Packing material?	Yes (✓)	No ( )
All Bottles Sealed?	Yes (✓)	No ( )
Any Bottles Broken?	Yes ( )	No (✓)
Labels in good condition?	Yes (✓)	No ( )
Labels agree with chain of custody?	Yes (✓)	No ( )
Correct Containers Used?	Yes (✓)	No ( )
Preserved Properly?	Yes (✓)	No ( )
Sufficient Sample?	Yes (✓)	No ( )

Comments: _____

ORGANICS RUN NARRATIVE

Instrument MS-G Date 9-10-99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

✓

Continuing Calibration Check(s) met method criteria except as noted:

N/A

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes:

N/A

Method blank met method criteria except as noted:

✓

QC Samples met method criteria except as noted:

N/A

Note any unusual run occurrences below:

none

Analyst [illegible] Reviewer ZAW

000013

ORGANICS RUN NARRATIVE

Instrument MS-G Date 9-27-99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

✓

Continuing Calibration Check(s) met method criteria except as noted:

N/A

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

N/A

Method blank met method criteria except as noted:

✓

QC Samples met method criteria except as noted:

Acrolein + Acrylonitrile

Note any unusual run occurrences below:

none.

000014

Analyst Claudia J Parrish Reviewer PAW

ORGANICS RUN NARRATIVE

Instrument MS-G Date 9-23-99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

✓

Continuing Calibration Check(s) met method criteria except as noted:

N/A

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

N/A

Method blank met method criteria except as noted:

✓

QC Samples met method criteria except as noted:

Acrolein + Acrylonitrile

Note any unusual run occurrences below:

none

000015

Analyst Claudia J Parrish Reviewer EAN

ORGANICS RUN NARRATIVE

Instrument GC-UV Date 9-16-99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

✓

Continuing Calibration Check(s) met method criteria except as noted:

✓

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

✓

Method blank met method criteria except as noted.

✓

QC Samples met method criteria except as noted.

✓

Note any unusual run documented below:

NONE

000016

ORGANICS RUN NARRATIVE

Instrument GC-UV Date 9-27-99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

✓

Continuing Calibration Check(s) met method criteria except as noted:

✓

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

✓

Method blank met method criteria except as noted:

✓

QC Samples met method criteria except as noted:

N/A

Note any unusual run occurrences below:

NONE

Analyst RAN Reviewer

ORGANICS RUN NARRATIVE

Instrument ECD3 Date 9-27-99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

✓

Continuing Calibration Check(s) met method criteria except as noted:

✓

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

✓

Method blank met method criteria except as noted:

✓

QC Samples met method criteria except as noted:

✓

Note any unusual run occurrences below:

NA

ORGANICS RUN NARRATIVE

Instrument FID2 Date 9/28/99

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

Continuing Calibration Check(s) met method criteria except as noted:

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

Method blank met method criteria except as noted:

QC Samples met method criteria except as noted:

Note any unusual run occurrences below:

N/A

Analyst: [illegible] Reviewer: [illegible]

ORGANICS RUN NARRATIVE

Instrument (11) 4/2 FID2 Date 9/24/97

Initial Calibration or Initial Continuing Calibration Check met method criteria except as noted:

Continuing Calibration Check(s) met method criteria except as noted:

Acceptable Initial and Continuing Calibration Checks bracketed all samples with detected target analytes.

Method blank met method criteria except as noted:

QC Samples met method criteria except as noted:

Note any unusual run occurrences below:

N/A

000020

Reviewer

SAMPLE RESULT SUMMARY

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0010600.D	1	09/27/99	CJP	n/a	n/a	VG289
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
107-02-8	Acrolein	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	ug/l	
75 15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0010600.D	1	09/27/99	CJP	n/a	n/a	VG289
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	2.0	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

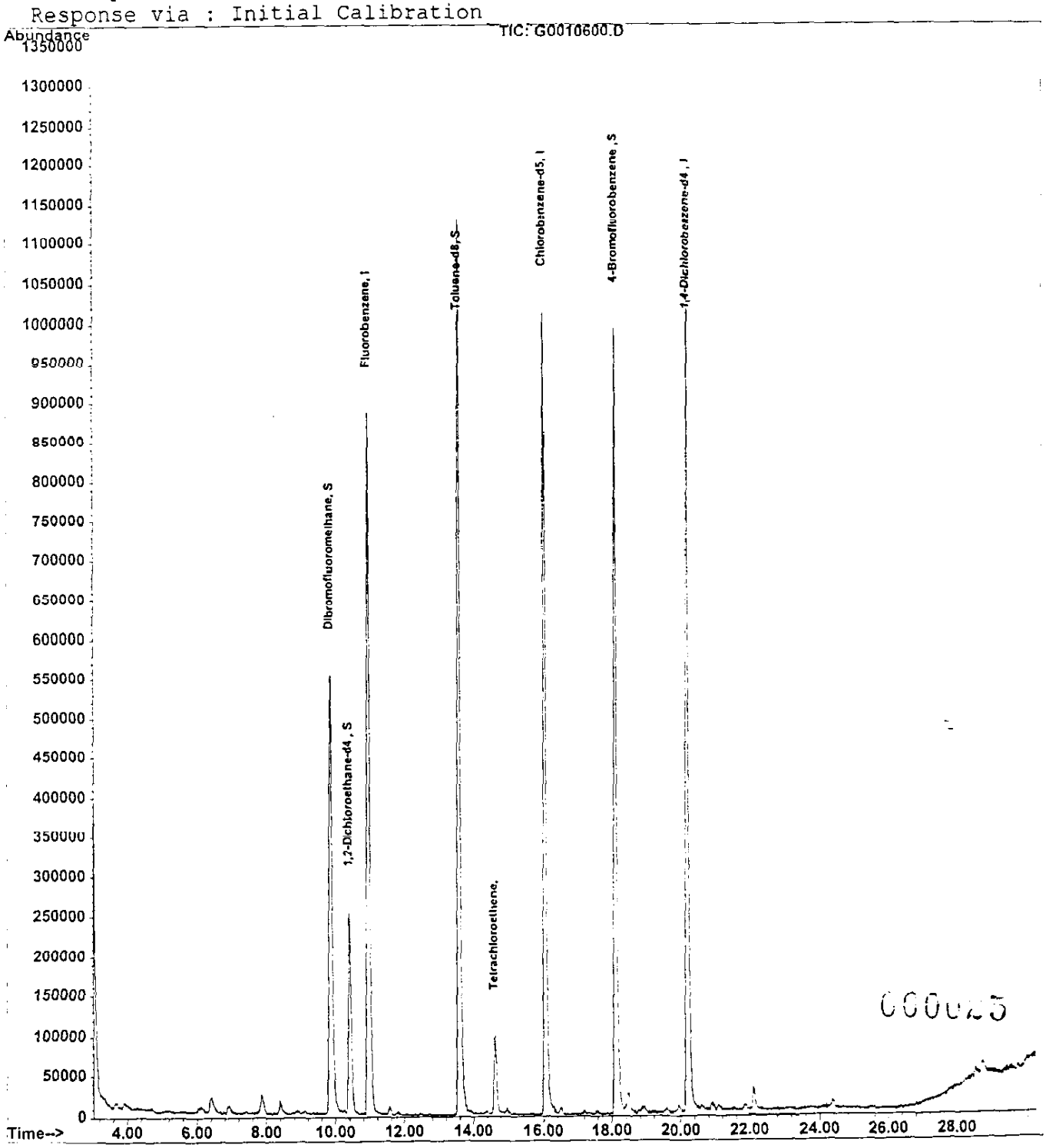
ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

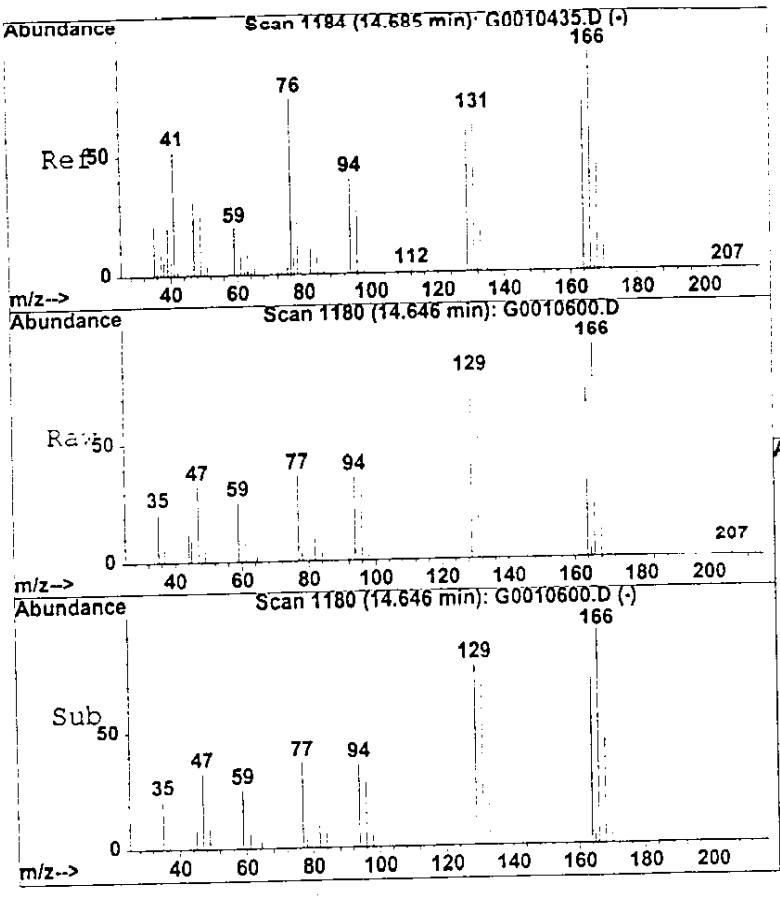
Quantitation Report

Data File : C:\HPCHEM\1\DATA\092799\G0010600.D Vial: 9
Acq On : 27 Sep 1999 9:33 am Operator: ClaudiaP
Sample : F4941-1,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 27 11:04 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



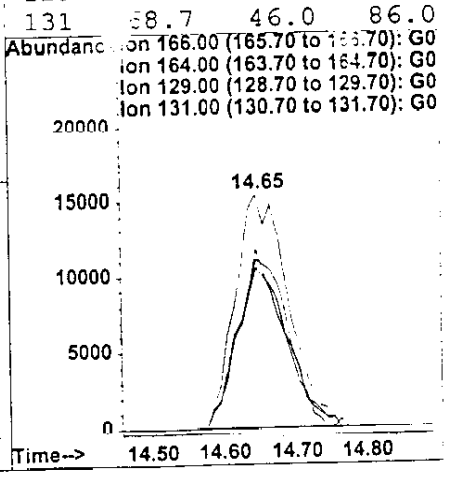
000025



#44
Tetrachloroethene
Concen: 1.96 ug/L
RT: 14.65 min Scan# 1180
Delta R.T. -0.04 min
Lab File: G0010600.D
Acq: 27 Sep 1999 9:33 am

Tgt Ion:166 Resp: 77945

Ion	Ratio	Lower	Upper
166	100		
164	72.1	51.1	91.1
129	76.5	40.4	80.4
131	58.7	46.0	86.0



000028

SURROGATE RECOVERIES SUMMARY

Volatile Surrogate Recovery Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F4941-1	G0010600.D	91.0	77.0	109.0	104.0
F4907-1DUP	G0010581.D	93.0	111.0	102.0	102.0
F4907-4MS	G0010590.D	97.0	111.0	103.0	100.0
F4907-4MSD	G0010591.D	97.0	101.0	103.0	97.0
VG289-BS	G0010592.D	96.0	98.0	103.0	100.0
VG289-MB	G0010565.D	94.0	108.0	101.0	102.0
VG289-MB	G0010584.D	95.0	98.0	102.0	100.0
VG289-MB	G0010595.D	94.0	92.0	100.0	101.0
VG289-MB	G0010599.D	94.0	98.0	103.0	103.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-116%
S2 = 1,2-Dichloroethane-D4	74-120%
S3 = Toluene-D8	80-120%
S4 = 4 Bromofluorobenzene	86-115%

MATRIX SPIKE/ MATRIX SPIKE DUPLICATE/ BLANK SPIKE SUMMARY

Blank Spike Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG289-BS	G0010592.D	1	09/23/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4941-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	250	212	85	67-129
107-02-8	Acrolein	250	784	314*	23-147
107-13-1	Acrylonitrile	250	535	214*	71-128
71-43-2	Benzene	50	50.8	102	64-127
108-86-1	Bromobenzene	50	50.0	100	75-127
74-97-5	Bromochloromethane	50	47.7	95	68-126
75-27-4	Bromodichloromethane	50	49.0	98	75-125
75-25-2	Bromoform	50	55.3	111	67-133
104-51-8	n-Butylbenzene	50	52.0	104	71-129
135-98-8	sec-Butylbenzene	50	52.6	105	73-129
98-06-6	tert-Butylbenzene	50	50.5	101	69-127
108-90-7	Chlorobenzene	50	51.4	103	79-125
75-00-3	Chloroethane	50	47.7	95	56-137
67-66-3	Chloroform	50	48.4	97	75-125
95-49-8	o-Chlorotoluene	50	50.3	101	71-126
106-43-4	p-Chlorotoluene	50	49.4	99	71-125
110-75-8	2-Chloroethyl vinyl ether	250	490	196	1-220
75-15-0	Carbon disulfide	250	241	96	51-130
56-23-5	Carbon tetrachloride	50	47.6	95	53-156
75-34-3	1,1-Dichloroethane	50	49.0	98	77-125
75-35-4	1,1-Dichloroethylene	50	45.4	91	54-125
563-58-6	1,1-Dichloropropene	50	49.2	98	63-142
96-12-8	1,2-Dibromo-3-chloropropane	50	50.7	101	60-136
106-93-4	1,2-Dibromoethane	50	51.1	102	73-126
107-06-2	1,2-Dichloroethane	50	45.0	90	70-125
78-87-5	1,2-Dichloropropane	50	52.1	104	75-125
142-28-9	1,3-Dichloropropane	50	50.2	100	75-125
594-20-7	2,2-Dichloropropane	50	48.6	97	43-126
124-48-1	Dibromochloromethane	50	52.3	105	75-127
75-71-8	Dichlorodifluoromethane	50	45.6	91	13-160
156-59-2	cis-1,2-Dichloroethylene	50	54.1	108	72-125
10061-01-5	cis-1,3-Dichloropropene	50	49.6	99	75-125
541-73-1	m-Dichlorobenzene	50	50.7	101	75-125
95-50-1	o-Dichlorobenzene	50	48.8	98	75-125
106-46-7	p-Dichlorobenzene	50	49.8	100	74-125
156-60-5	trans-1,2-Dichloroethylene	50	44.4	89	65-129

Blank Spike Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG289-BS	G0010592.D	1	09/23/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4941-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	51.3	103	74-125
100-41-4	Ethylbenzene	50	50.6	101	75-125
591-78-6	2-Hexanone	250	253	101	65-136
87-68-3	Hexachlorobutadiene	50	52.1	104	51-147
98-82-8	Isopropylbenzene	50	51.1	102	67-142
99-87-6	p-Isopropyltoluene	50	51.2	102	72-129
108-10-1	4 Methyl-2-pentanone	250	244	98	62-138
74-83-9	Methyl bromide	50	58.2	116	43-141
74-87-3	Methyl chloride	50	42.7	85	33-155
74-95-3	Methylene bromide	50	47.6	95	73-125
75-09-2	Methylene chloride	50	46.2	92	70-125
78-93-3	Methyl ethyl ketone	250	218	87	61-133
1634-04-4	Methyl Tert Butyl Ether	250	226	90	70-125
91-20-3	Naphthalene	50	51.9	104	61-146
103-65-1	n-Propylbenzene	50	52.1	104	72-126
100-42-5	Styrene	50	54.0	108	80-125
630-20-6	1,1,1,2-Tetrachloroethane	50	51.1	102	72-128
71-55-6	1,1,1-Trichloroethane	50	47.9	96	68-125
79-34-5	1,1,2,2-Tetrachloroethane	50	51.9	104	71-125
79-00-5	1,1,2-Trichloroethane	50	51.8	104	75-125
87-61-6	1,2,3-Trichlorobenzene	50	51.0	102	60-146
96-18-4	1,2,3-Trichloropropane	50	49.8	100	69-128
120-82-1	1,2,4-Trichlorobenzene	50	52.7	105	64-135
95-63-6	1,2,4-Trimethylbenzene	50	50.8	102	71-125
108-67-8	1,3,5-Trimethylbenzene	50	50.9	102	70-125
127-18-4	Tetrachloroethylene	50	50.7	101	69-128
108-88-3	Toluene	50	53.1	106	74-125
79-01-6	Trichloroethylene	50	48.7	97	47-148
75-69-4	Trichlorofluoromethane	50	39.3	79	20-148
75-01-4	Vinyl chloride	50	53.1	106	55-132
108-05-4	Vinyl Acetate	250	250	100	21-172
	m,p-Xylene	100	105	105	79-125
95-47-6	o Xylene	50	52.4	105	79-125

Blank Spike Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG289-BS	G0010592.D	1	09/23/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4941-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	80-116%
17060-07-0	1,2-Dichloroethane-D4	98%	74-120%
2037-26-5	Toluene-D8	103%	80-120%
460-00-4	4-Bromofluorobenzene	100%	86-115%

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010592.D Vial: 16
Acq On : 23 Sep 1999 3:25 pm Operator: ClaudiaP
Sample : BS,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.99	96	3192652	25.00 ug/L	0.00
39) Chlorobenzene-d5	16.09	117	2284397	25.00 ug/L	0.00
57) 1,4-Dichlorobenzene-d4	20.25	152	1419492	25.00 ug/L	0.00
System Monitoring Compounds					
25) Dibromofluoromethane	9.91	113	1598661	48.28	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery =	96.56%	
28) 1,2-Dichloroethane-d4	10.45	65	897727	49.28	0.00
Spiked Amount 50.000	Range 74 - 120		Recovery =	98.56%	
40) Toluene-d8	13.63	98	3069315	51.40	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	102.80%	
59) 4-Bromofluorobenzene	18.15	95	1536569	50.08	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	100.16%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.16	85	2927217	45.64 ug/L	97
3) Chloromethane	3.65	50	1285573	42.71 ug/L	95
4) Vinyl Chloride	3.72	62	1797661	53.07 ug/L	98
5) Bromomethane	4.35	94	1817812	58.15 ug/L	90
6) Chloroethane	4.50	64	851498	47.74 ug/L	90
7) Trichlorofluoromethane	4.97	101	3459294	39.32 ug/L	91
8) Acrolein	5.88	56	297779	784.32 ug/L #	69
9) 1,1-Dichloroethene	5.98	61	3107712	45.36 ug/L	92
10) Acetone	6.25	43	834053	211.65 ug/L	95
11) Carbon Disulfide	6.36	76	23449858	240.97 ug/L	97
12) Methylene Chloride	6.90	49	2289318	46.18 ug/L	96
13) trans-1,2-Dichloroethene	7.40	61	3054487	44.38 ug/L	97
14) Acrylonitrile	7.39	53	990522	534.91 ug/L	88
15) Methyl Tert Butyl Ether	7.49	73	16331233	225.88 ug/L	98
16) 1,1-Dichloroethane	8.12	63	3774851	48.99 ug/L	97
17) Vinyl acetate	8.33	43	15400639	249.55 ug/L	98
18) Di-isopropyl ether	8.32	45	32860143	244.48 ug/L #	57
19) 2,2-Dichloropropane	9.08	77	3388915	48.60 ug/L	97
20) cis-1,2-Dichloroethene	9.11	96	1967471	54.06 ug/L	93
21) 2-Butanone	9.19	43	1416080	217.65 ug/L	96
22) Bromochloromethane	9.49	128	1105165	47.70 ug/L	91
23) Chloroform	9.64	83	4085475	48.40 ug/L	97
24) 1,1,1-Trichloroethane	9.93	97	3648989	47.88 ug/L	93
26) 1,1-Dichloropropene	10.18	75	2767663	49.18 ug/L	96
27) Carbon Tetrachloride	10.20	117	3305141	47.59 ug/L	92
29) Benzene	10.53	78	4694831	50.77 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010592.D Vial: 16
Acq On : 23 Sep 1999 3:25 pm Operator: ClaudiaP
Sample : BS,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30)	1,2-Dichloroethane	10.57	62	2104153	45.00 ug/L	98
31)	Trichloroethene	11.60	95	2599170	48.70 ug/L	97
32)	1,2-Dichloropropane	11.97	63	2257589	52.11 ug/L	99
33)	Dibromomethane	12.17	93	1435790	47.58 ug/L	97
34)	1,4-Dioxane	12.28	88	167500	1042.25 ug/L	89
35)	Bromodichloromethane	12.44	83	3503679	49.01 ug/L	99
36)	2-Chloroethyl vinyl ether	12.92	63	2066566	489.85 ug/L	94
37)	4-Methyl-2-pentanone	13.44	43	4961994	244.10 ug/L	98
38)	cis-1,3-Dichloropropene	13.17	75	2806287	49.60 ug/L	98
41)	Toluene	13.74	91	6643917	53.11 ug/L	100
42)	trans-1,3-Dichloropropene	14.09	75	2149225	51.34 ug/L	99
43)	1,1,2-Trichloroethane	14.41	83	1285027	51.84 ug/L	95
44)	Tetrachloroethene	14.69	166	3134492	50.68 ug/L	96
45)	2-hexanone	14.83	43	3270535	252.61 ug/L	96
46)	1,3-Dichloropropane	14.70	76	2303541	50.21 ug/L	96
47)	Dibromochloromethane	15.10	129	2278086	52.33 ug/L	94
48)	1,2-Dibromoethane	15.30	107	1835502	51.14 ug/L	96
49)	1-Chlorohexane	16.08	91	3025199	51.78 ug/L	95
50)	Chlorobenzene	16.13	112	4681185	51.35 ug/L	98
51)	1,1,1,2-Tetrachloroethane	16.28	131	2276360	51.13 ug/L	96
52)	Ethylbenzene	16.32	91	7842055	50.59 ug/L	99
53)	m,p-Xylene	16.53	91	13327710	105.14 ug/L	98
54)	o-Xylene	17.22	91	6529999	52.37 ug/L	98
55)	Styrene	17.25	104	4198325	54.02 ug/L	94
56)	Bromoform	17.59	173	1454401	55.34 ug/L	97
58)	Isopropylbenzene	17.88	105	8391976	51.06 ug/L	95
60)	Bromobenzene	18.43	156	2237582	50.02 ug/L	91
61)	1,1,2,2-Tetrachloroethane	18.40	83	1787507	51.92 ug/L	94
62)	1,2,3-Trichloropropane	18.47	110	439066	49.77 ug/L	95
63)	n-Propylbenzene	18.61	91	10578942	52.07 ug/L	98
64)	2-Chlorotoluene	18.78	91	6195067	50.30 ug/L	98
65)	4-Chlorotoluene	18.97	91	6897131	49.43 ug/L	98
66)	1,3,5-Trimethylbenzene	18.93	105	6998196	50.89 ug/L	100
67)	sec-Butylbenzene	19.93	105	9881204	52.60 ug/L	99
68)	1,3-Dichlorobenzene	20.14	146	4188646	50.66 ug/L	96
69)	4-Isopropyltoluene	20.19	119	7736257	51.24 ug/L	94
70)	1,4-Dichlorobenzene	20.29	146	4275489	49.75 ug/L	98
71)	tert-Butylbenzene	19.52	91	5602987	50.53 ug/L	97
2)	n-Butylbenzene	20.93	91	8290228	51.95 ug/L	97
73)	1,2-Dichlorobenzene	20.98	146	3505817	48.76 ug/L	97
74)	1,2,4-Trimethylbenzene	19.60	105	6886975	50.76 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010592.D Vial: 16
Acq On : 23 Sep 1999 3:25 pm Operator: ClaudiaP
Sample : BS,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	1,2-Dibromo-3-Chloropropan	22.40	75	293502	50.67 ug/L	94
76)	1,2,4-Trichlorobenzene	24.13	180	2902881	52.72 ug/L	95
77)	Hexachlorobutadiene	24.54	225	2098589	52.10 ug/L	92
78)	Naphthalene	24.68	128	3100097	51.94 ug/L	98
79)	1,2,3-Trichlorobenzene	25.30	180	2411802	50.96 ug/L	94

000033

(#) = qualifier out of range (m) = manual integration

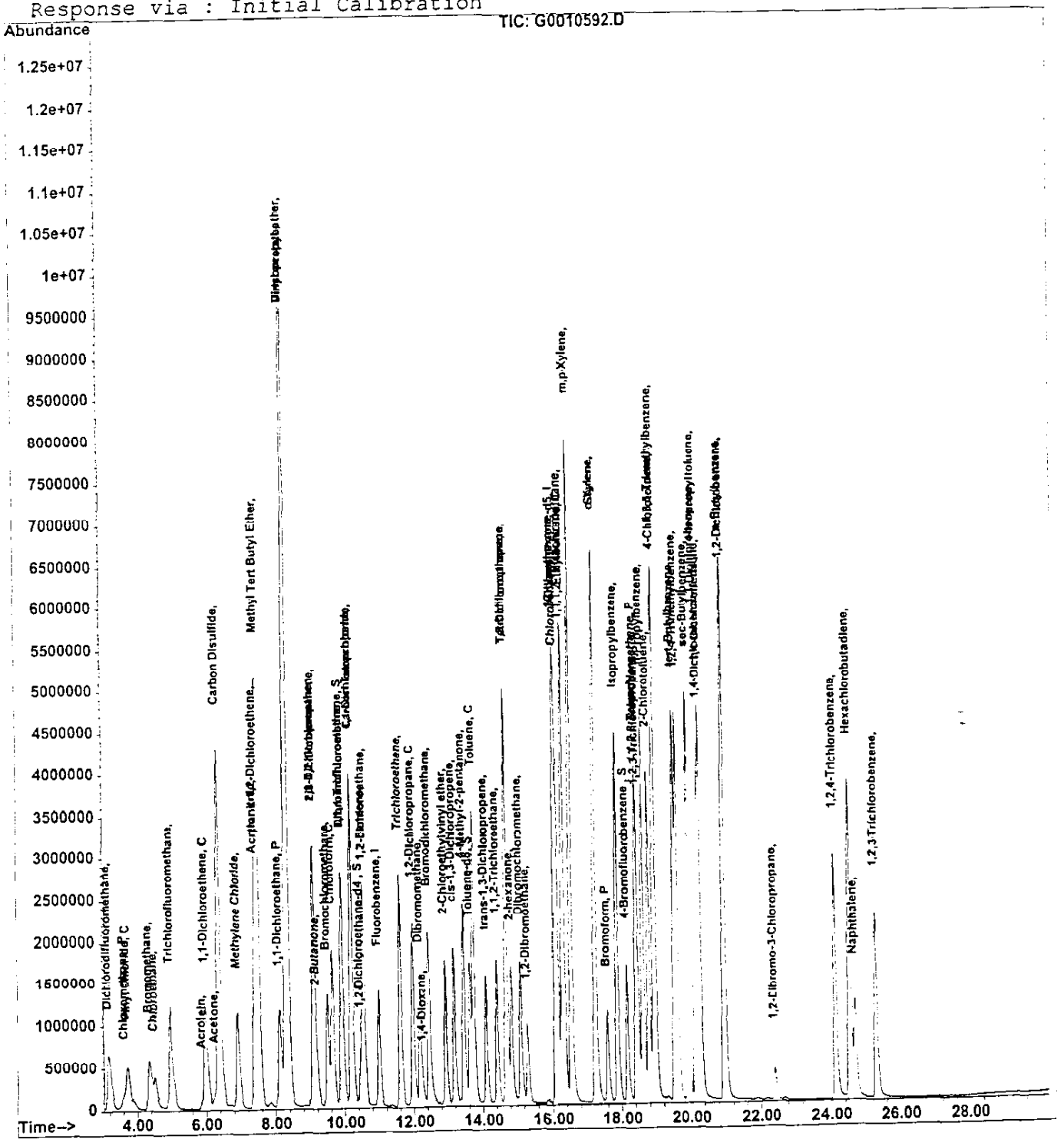
Quantitation Report

Data File : C:\HPCHEM\1\DATA\092399\G0010592.D
Acq On : 23 Sep 1999 3:25 pm
Sample : BS,10ml
Misc : ms380,vg289,,,,,
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999

Vial: 16
Operator: ClaudiaP
Inst : MSVOA1
Multiplr: 1.00

Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F4907-4MS	G0010590.D	1	09/23/99	CJP	n/a	n/a	VG289
F4907-4MSD	G0010591.D	1	09/23/99	CJP	n/a	n/a	VG289
F4907-4	G0010585.D	1	09/23/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4941-1

CAS No.	Compound	F4907-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		250	214	86	218	87	2	67-129/30
107-02-8	Acrolein	ND		250	792	317*	820	328*	3	23-147/30
107-13-1	Acrylonitrile	ND		250	541	216*	543	217*	0	70-128/30
71-43-2	Benzene	ND		50	57.1	114	56.0	112	2	64-127/21
108-86-1	Bromobenzene	ND		50	50.1	100	49.0	98	2	75-127/20
74-97-5	Bromochloromethane	ND		50	47.2	94	47.8	96	1	68-126/20
75-27-4	Bromodichloromethane	ND		50	47.8	96	48.7	97	2	75-125/20
75-25-2	Bromoform	ND		50	54.1	108	54.0	108	0	67-133/21
104-51-8	n-Butylbenzene	ND		50	53.7	107	52.6	105	2	71-129/20
135-98-8	sec-Butylbenzene	ND		50	53.9	108	53.3	107	1	73-129/20
98-06-6	tert-Butylbenzene	ND		50	50.8	102	51.1	102	0	69-127/20
108-90-7	Chlorobenzene	ND		50	51.5	103	51.0	102	1	79-125/20
75-00-3	Chloroethane	ND		50	49.9	100	48.8	98	2	56-137/20
67-66-3	Chloroform	2		50	50.2	96	49.6	95	1	75-125/21
95-49-8	o-Chlorotoluene	ND		50	50.2	100	51.0	102	2	71-126/20
106-43-4	p-Chlorotoluene	ND		50	49.8	100	49.0	98	2	71-125/20
110-75-8	2-Chloroethyl vinyl ether	ND		250	4.9	2	3.9	2	23	1-220/40
75-15-0	Carbon disulfide	ND		250	248	99	243	97	2	51-130/30
56-23-5	Carbon tetrachloride	ND		50	46.6	93	47.0	94	1	53-156/16
75-34-3	1,1-Dichloroethane	ND		50	49.4	99	48.6	97	2	77-125/20
75-35-4	1,1-Dichloroethylene	ND		50	47.3	95	46.1	92	2	54-125/26
563-58-6	1,1-Dichloropropene	ND		50	49.4	99	49.6	99	0	63-142/20
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	49.1	98	53.0	106	8	60-136/27
106-93-4	1,2-Dibromoethane	ND		50	51.0	102	51.9	104	2	73-126/20
107-06-2	1,2-Dichloroethane	8.4		50	58.2	100	57.8	99	1	70-125/22
78-87-5	1,2-Dichloropropane	ND		50	50.7	101	51.0	102	0	75-125/20
142-28-9	1,3-Dichloropropane	ND		50	50.6	101	49.9	100	1	75-125/20
594-20-7	2,2-Dichloropropane	ND		50	51.2	102	49.8	100	3	43-126/30
124-48-1	Dibromochloromethane	ND		50	52.9	106	52.1	104	2	75-127/20
75-71-8	Dichlorodifluoromethane	ND		50	46.7	93	46.3	93	1	13-160/30
156-59-2	cis-1,2-Dichloroethylene	ND		50	54.8	110	54.1	108	1	72-125/18
10061-01-5	cis-1,3-Dichloropropene	ND		50	47.7	95	48.5	97	2	75-125/20
541-73-1	m-Dichlorobenzene	ND		50	50.3	101	50.4	101	0	75-125/20
95-50-1	o-Dichlorobenzene	ND		50	48.1	96	47.9	96	0	75-125/20
106-46-7	p-Dichlorobenzene	ND		50	49.7	99	49.7	99	0	74-125/20
156-60-5	trans-1,2-Dichloroethylene	ND		50	45.3	91	44.4	89	2	65-129/20

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F4907-4MS	G0010590.D	1	09/23/99	CJP	n/a	n/a	VG289
F4907-4MSD	G0010591.D	1	09/23/99	CJP	n/a	n/a	VG289
F4907-4	G0010585.D	1	09/23/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4941-1

CAS No.	Compound	F4907-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND		50	52.3	105	51.5	103	2	74-125/20
100-41-4	Ethylbenzene	ND		50	52.4	105	51.5	103	2	75-125/20
591-78-6	2-Hexanone	ND		250	247	99	258	103	4	65-136/30
87-68-3	Hexachlorobutadiene	ND		50	53.4	107	53.8	108	1	51-147/32
98-82-8	Isopropylbenzene	ND		50	51.8	104	51.1	102	1	67-142/20
99-87-6	p-Isopropyltoluene	ND		50	52.4	105	52.6	105	0	72-129/20
108-10-1	4-Methyl-2-pentanone	ND		250	234	94	249	100	6	62-138/30
74-83-9	Methyl bromide	ND		50	53.4	107	58.3	117	9	43-141/22
74-87-3	Methyl chloride	ND		50	45.4	91	43.8	88	4	33-155/22
74-95-3	Methylene bromide	ND		50	45.5	91	47.3	95	4	73-125/20
75-09-2	Methylene chloride	ND		50	47.6	95	46.2	92	3	70-125/20
78-93-3	Methyl ethyl ketone	ND		250	221	88	231	92	4	61-133/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	228	91	227	91	0	70-125/20
91-20-3	Naphthalene	ND		50	51.6	103	51.4	103	0	61-146/30
103-65-1	n-Propylbenzene	ND		50	52.7	105	52.3	105	1	72-126/20
100-42-5	Styrene	ND		50	53.5	107	53.9	108	1	80-125/24
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	52.0	104	50.8	102	2	72-128/20
71-55-6	1,1,1-Trichloroethane	ND		50	49.2	98	48.2	96	2	68-125/20
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	49.8	100	51.6	103	4	71-125/19
79-00-5	1,1,2-Trichloroethane	ND		50	50.7	101	51.9	104	2	75-125/20
87-61-6	1,2,3-Trichlorobenzene	ND		50	52.3	105	50.9	102	3	60-146/23
96-18-4	1,2,3-Trichloropropane	ND		50	49.0	98	50.6	101	3	69-128/17
120-82-1	1,2,4-Trichlorobenzene	ND		50	53.2	106	52.4	105	2	64-135/19
95-63-6	1,2,4-Trimethylbenzene	ND		50	50.8	102	49.6	99	2	71-125/26
108-67-8	1,3,5-Trimethylbenzene	ND		50	50.8	102	50.6	101	0	70-125/20
127-18-4	Tetrachloroethylene	9.2		50	59.9	101	58.0	98	3	69-128/24
108-88-3	Toluene	ND		50	54.0	108	53.5	107	1	74-125/20
79-01-6	Trichloroethylene	ND		50	48.6	97	49.4	99	2	47-148/20
75-69-4	Trichlorofluoromethane	ND		50	38.8	78	40.3	81	4	20-148/21
75-01-4	Vinyl chloride	ND		50	55.7	111	54.7	109	2	55-132/21
108-05-4	Vinyl Acetate	ND		250	245	98	244	98	0	21-172/30
	m,p-Xylene	ND		100	107	107	106	106	1	79-125/16
95-47-6	o-Xylene	ND		50	52.6	105	52.8	106	0	79-125/16

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F4907-4MS	G0010590.D	1	09/23/99	CJP	n/a	n/a	VG289
F4907-4MSD	G0010591.D	1	09/23/99	CJP	n/a	n/a	VG289
F4907-4	G0010585.D	1	09/23/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4941-1

CAS No.	Surrogate Recoveries	MS	MSD	F4907-4	Limits
1868-53-7	Dibromofluoromethane	97%	97%	87%	80-116%
17060-07-0	1,2-Dichloroethane-D4	111%	101%	88%	74-120%
2037-26-5	Toluene-D8	103%	103%	104%	80-120%
460-00-4	4-Bromofluorobenzene	100%	97%	102%	86-115%

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010590.D Vial: 14
Acq On : 23 Sep 1999 2:08 pm Operator: ClaudiaP
Sample : F4907-4ms,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:28 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.02	96	3057799	25.00	ug/L	0.03
39) Chlorobenzene-d5	16.12	117	2130694	25.00	ug/L	0.03
57) 1,4-Dichlorobenzene-d4	20.28	152	1344477	25.00	ug/L	0.04
System Monitoring Compounds						
25) Dibromofluoromethane	9.93	113	1532758	48.33		0.04
Spiked Amount 50.000	Range 80 - 116		Recovery = 96.66%			
28) 1,2-Dichloroethane-d4	10.49	65	965272	55.33		0.04
Spiked Amount 50.000	Range 74 - 120		Recovery = 110.66%			
40) Toluene-d8	13.66	98	2880524	51.72		0.04
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.44%			
59) 4-Bromofluorobenzene	18.19	95	1455455	50.09		0.04
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.24	85	2867995	46.69	ug/L	98
3) Chloromethane	3.67	50	1307597	45.35	ug/L	89
4) Vinyl Chloride	3.77	62	1805762	55.66	ug/L	95
5) Bromomethane	4.41	94	1599557	53.43	ug/L	95
6) Chloroethane	4.54	64	851739	49.86	ug/L	91
7) Trichlorofluoromethane	4.99	101	3269909	38.80	ug/L	93
8) Acrolein	5.91	56	287998	792.02	ug/L	79
9) 1,1-Dichloroethene	6.01	61	3101024	47.26	ug/L	97
10) Acetone	6.28	43	808643	214.25	ug/L	91
11) Carbon Disulfide	6.39	76	23132514	248.19	ug/L	97
12) Methylene Chloride	6.94	49	2262777	47.65	ug/L	98
13) trans-1,2-Dichloroethene	7.43	61	2988374	45.34	ug/L	97
14) Acrylonitrile	7.43	53	959594	541.06	ug/L	88
15) Methyl Tert Butyl Ether	7.52	73	15760414	227.60	ug/L	97
16) 1,1-Dichloroethane	8.16	63	3646310	49.41	ug/L	99
17) Vinyl acetate	8.35	43	14483999	245.05	ug/L	98
18) Di-isopropyl ether	8.36	45	31138539	241.88	ug/L #	57
19) 2,2-Dichloropropane	9.12	77	3415658	51.15	ug/L	99
20) cis-1,2-Dichloroethene	9.14	96	1909259	54.77	ug/L	94
21) 2-Butanone	9.21	43	1374975	220.65	ug/L	100
22) Bromochloromethane	9.53	128	1046694	47.17	ug/L	97
23) Chloroform	9.67	83	4059051	50.21	ug/L	99
24) 1,1,1-Trichloroethane	9.95	97	3590986	49.19	ug/L	95
26) 1,1-Dichloropropene	10.22	75	2660520	49.37	ug/L	96
27) Carbon Tetrachloride	10.23	117	3101042	46.62	ug/L	99
29) Benzene	10.55	78	5056841	57.10	ug/L	92

(#) = qualifier out of range (m) - manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010590.D Vial: 14
Acq On : 23 Sep 1999 2:08 pm Operator: ClaudiaP
Sample : F4907-4ms,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:28 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30)	1,2-Dichloroethane	10.59	62	2605251	58.17 ug/L	99
31)	Trichloroethene	11.64	95	2483299	48.58 ug/L	99
32)	1,2-Dichloropropane	12.00	63	2105323	50.74 ug/L	97
33)	Dibromomethane	12.22	93	1315158	45.50 ug/L	96
34)	1,4-Dioxane	12.31	88	148286	963.38 ug/L	89
35)	Bromodichloromethane	12.48	83	3271156	47.78 ug/L	98
36)	2-Chloroethyl vinyl ether	12.99	63	16365	4.89 ug/L #	70
37)	4-Methyl-2-pentanone	13.47	43	4565474	234.50 ug/L	98
38)	cis-1,3-Dichloropropene	13.21	75	2586394	47.73 ug/L	97
41)	Toluene	13.77	91	6297955	53.97 ug/L	97
42)	trans-1,3-Dichloropropene	14.13	75	2042384	52.30 ug/L	98
43)	1,1,2-Trichloroethane	14.44	83	1171335	50.66 ug/L	98
44)	Tetrachloroethene	14.71	166	3454587	59.89 ug/L	97
45)	2-hexanone	14.87	43	2985562	247.23 ug/L	94
46)	1,3-Dichloropropane	14.72	76	2165438	50.60 ug/L	99
47)	Dibromochloromethane	15.13	129	2147174	52.88 ug/L	97
48)	1,2-Dibromoethane	15.33	107	1705755	50.95 ug/L	99
49)	1-Chlorohexane	16.11	91	2994633	54.96 ug/L	94
50)	Chlorobenzene	16.17	112	4380800	51.52 ug/L	98
51)	1,1,1,2-Tetrachloroethane	16.32	131	2159445	52.00 ug/L	98
52)	Ethylbenzene	16.36	91	7569907	52.36 ug/L	96
53)	m,p-Xylene	16.56	91	12696384	107.39 ug/L	98
54)	o-Xylene	17.26	91	6114052	52.57 ug/L	98
55)	Styrene	17.28	104	3880334	53.53 ug/L	84
56)	Bromoform	17.63	173	1327226	54.14 ug/L	95
58)	Isopropylbenzene	17.91	105	8056489	51.75 ug/L	97
60)	Bromobenzene	18.47	156	2124503	50.14 ug/L	89
61)	1,1,2,2-Tetrachloroethane	18.43	83	1623743	49.79 ug/L	96
62)	1,2,3-Trichloropropane	18.51	110	409640	49.02 ug/L	92
63)	n-Propylbenzene	18.65	91	10142124	52.70 ug/L	98
64)	2-Chlorotoluene	18.81	91	5855411	50.19 ug/L	97
65)	4-Chlorotoluene	19.00	91	6582752	49.81 ug/L	99
66)	1,3,5-Trimethylbenzene	18.96	105	6623077	50.85 ug/L	99
67)	sec-Butylbenzene	19.95	105	9587901	53.88 ug/L	100
68)	1,3-Dichlorobenzene	20.16	146	3940852	50.32 ug/L	97
69)	4 Isopropyltoluene	20.20	119	7492013	52.39 ug/L	96
70)	1,4-Dichlorobenzene	20.33	146	4046680	49.72 ug/L	97
71)	tert-Butylbenzene	19.55	91	5329563	50.75 ug/L	96
72)	n-Butylbenzene	20.96	91	8122196	53.73 ug/L	96
73)	1,2-Dichlorobenzene	21.00	146	3275728	48.10 ug/L	97
74)	1,2,4-Trimethylbenzene	19.64	105	6532089	50.84 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010590.D Vial: 14
Acq On : 23 Sep 1999 2:08 pm Operator: ClaudiaP
Sample : F4907-4ms,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:28 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	1,2-Dibromo-3-Chloropropan	22.43	75	269132	49.06 ug/L	91
76)	1,2,4-Trichlorobenzene	24.18	180	2774367	53.20 ug/L	95
77)	Hexachlorobutadiene	24.59	225	2037900	53.42 ug/L	89
78)	Naphthalene	24.74	128	2915291	51.57 ug/L	100
79)	1,2,3-Trichlorobenzene	25.35	180	2344371	52.30 ug/L	95

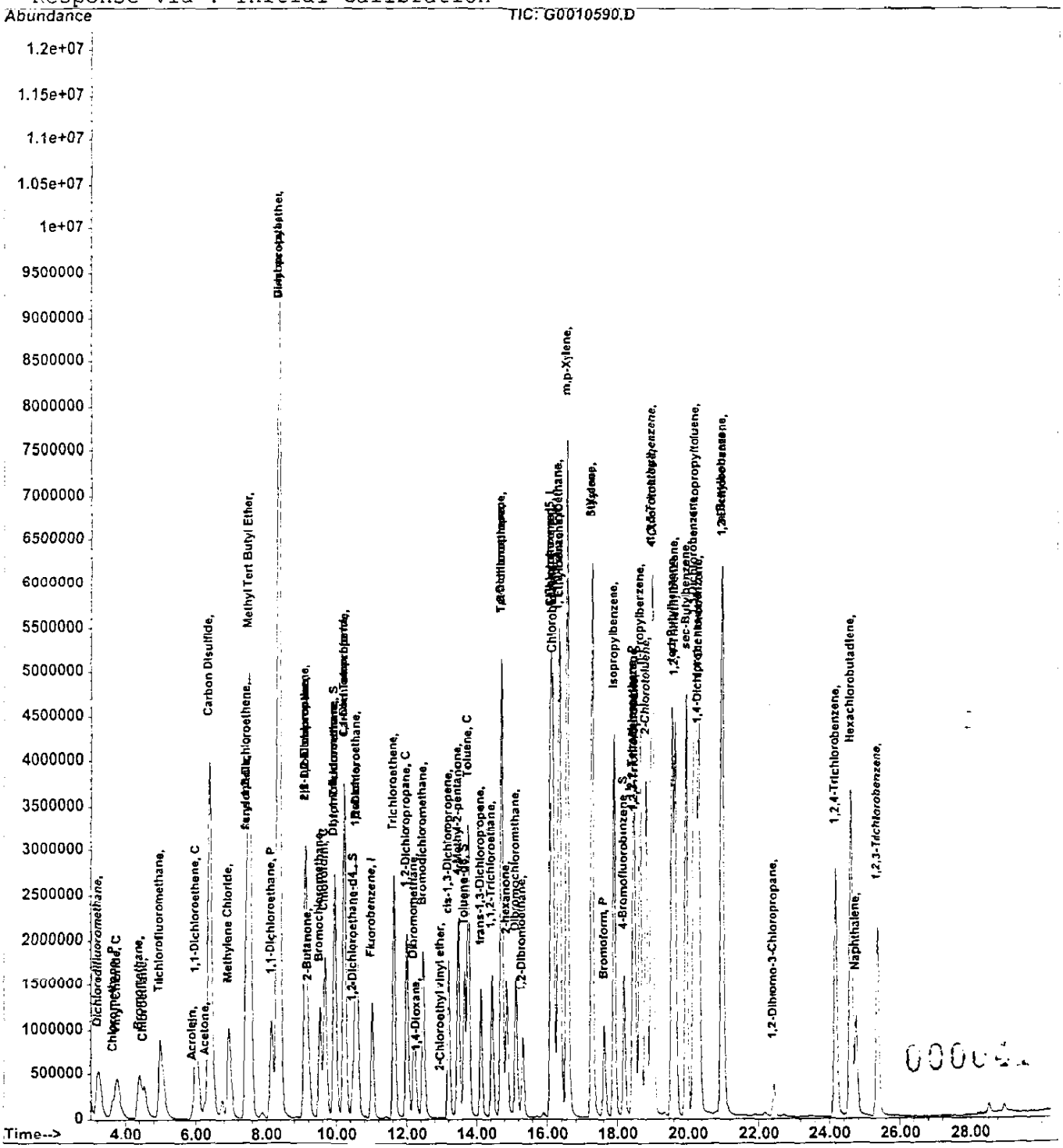
000040

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092399\G0010590.D Vial: 14
Acq On : 23 Sep 1999 2:08 pm Operator: ClaudiaP
Sample : F4907-4ms,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:28 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010591.D Vial: 15
Acq On : 23 Sep 1999 2:46 pm Operator: ClaudiaP
Sample : F4907-4msd,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.00	96	3130333	25.00 ug/L	0.01
39) Chlorobenzene-d5	16.11	117	2226828	25.00 ug/L	0.01
57) 1,4-Dichlorobenzene-d4	20.26	152	1392816	25.00 ug/L	0.02
System Monitoring Compounds					
25) Dibromofluoromethane	9.92	113	1571685	48.41	0.02
Spiked Amount 50.000	Range 80 - 116		Recovery =	96.82%	
28) 1,2-Dichloroethane-d4	10.46	65	906060	50.73	0.01
Spiked Amount 50.000	Range 74 - 120		Recovery =	101.46%	
40) Toluene-d8	13.64	98	2986148	51.30	0.02
Spiked Amount 50.000	Range 80 - 120		Recovery =	102.60%	
59) 4-Bromofluorobenzene	18.17	95	1462181	48.57	0.02
Spiked Amount 50.000	Range 86 - 115		Recovery =	97.14%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.18	85	2912002	46.31 ug/L	97
3) Chloromethane	3.65	50	1293500	43.82 ug/L	92
4) Vinyl Chloride	3.75	62	1815680	54.67 ug/L	96
5) Bromomethane	4.35	94	1786287	58.28 ug/L	94
6) Chloroethane	4.51	64	853789	48.82 ug/L	90
7) Trichlorofluoromethane	4.98	101	3475834	40.29 ug/L	92
8) Acrolein	5.90	56	305093	819.59 ug/L	77
9) 1,1-Dichloroethene	5.98	61	3095789	46.08 ug/L	96
10) Acetone	6.26	43	842079	217.94 ug/L	91
11) Carbon Disulfide	6.37	76	23211571	243.27 ug/L	98
12) Methylene Chloride	6.91	49	2247722	46.24 ug/L	96
13) trans-1,2-Dichloroethene	7.40	61	2997914	44.43 ug/L	98
14) Acrylonitrile	7.40	53	985256	542.66 ug/L	91
15) Methyl Tert Butyl Ether	7.49	73	16091012	226.99 ug/L	96
16) 1,1-Dichloroethane	8.12	63	3675775	48.65 ug/L	98
17) Vinyl acetate	8.34	43	14795910	244.52 ug/L	98
18) Di-isopropyl ether	8.34	45	31379573	238.11 ug/L #	59
19) 2,2-Dichloropropane	9.10	77	3401602	49.76 ug/L	96
20) cis-1,2-Dichloroethene	9.11	96	1929875	54.08 ug/L	96
21) 2-Butanone	9.20	43	1472939	230.89 ug/L	99
22) Bromochloromethane	9.51	128	1086079	47.81 ug/L	95
23) Chloroform	9.66	83	4107871	49.64 ug/L	97
24) 1,1,1-Trichloroethane	9.94	97	3604872	48.24 ug/L	97
26) 1,1-Dichloropropene	10.20	75	2736646	49.60 ug/L	97
27) Carbon Tetrachloride	10.20	117	3200806	47.00 ug/L	100
29) Benzene	10.54	78	5075791	55.98 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010591.D Vial: 15
Acq On : 23 Sep 1999 2:46 pm Operator: ClaudiaP
Sample : F4907-4msd,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,2-Dichloroethane	10.58	62	2652333	57.85 ug/L	97
31) Trichloroethene	11.62	95	2583212	49.36 ug/L	97
32) 1,2-Dichloropropane	11.99	63	2166239	51.00 ug/L	97
33) Dibromomethane	12.19	93	1400212	47.32 ug/L	97
34) 1,4-Dioxane	12.29	88	167625	1063.79 ug/L	90
35) Bromodichloromethane	12.45	83	3412084	48.68 ug/L	98
36) 2-Chloroethyl vinyl ether	12.97	63	13330	3.89 ug/L #	40
37) 4-Methyl-2-pentanone	13.45	43	4972272	249.48 ug/L	98
38) cis-1,3-Dichloropropene	13.18	75	2689498	48.48 ug/L	99
41) Toluene	13.75	91	6528389	53.53 ug/L	99
42) trans-1,3-Dichloropropene	14.10	75	2100001	51.46 ug/L	95
43) 1,1,2-Trichloroethane	14.42	83	1254212	51.90 ug/L	97
44) Tetrachloroethene	14.69	166	3494956	57.97 ug/L	96
45) 2-hexanone	14.84	43	3253213	257.77 ug/L	96
46) 1,3-Dichloropropane	14.70	76	2231230	49.89 ug/L	97
47) Dibromochloromethane	15.10	129	2212449	52.14 ug/L	97
48) 1,2-Dibromoethane	15.30	107	1815912	51.90 ug/L	98
49) 1-Chlorohexane	16.10	91	3025547	53.13 ug/L	93
50) Chlorobenzene	16.14	112	4535151	51.03 ug/L	99
51) 1,1,1,2-Tetrachloroethane	16.28	131	2206725	50.85 ug/L	98
52) Ethylbenzene	16.32	91	7776220	51.47 ug/L	97
53) m,p-Xylene	16.54	91	13081961	105.87 ug/L	96
54) o-Xylene	17.24	91	6416116	52.79 ug/L	99
55) Styrene	17.26	104	4083229	53.90 ug/L	90
56) Bromoform	17.60	173	1384860	54.05 ug/L	97
58) Isopropylbenzene	17.89	105	8238945	51.09 ug/L	96
60) Bromobenzene	18.45	156	2148663	48.95 ug/L	83
61) 1,1,2,2-Tetrachloroethane	18.40	83	1742632	51.58 ug/L	94
62) 1,2,3-Trichloropropane	18.49	110	437954	50.59 ug/L	92
63) n-Propylbenzene	18.63	91	10426771	52.30 ug/L	99
64) 2-Chlorotoluene	18.79	91	6168541	51.04 ug/L	94
65) 4-Chlorotoluene	18.98	91	6711145	49.02 ug/L	99
66) 1,3,5-Trimethylbenzene	18.94	105	6834389	50.65 ug/L	98
67) sec-Butylbenzene	19.94	105	9817139	53.26 ug/L	99
68) 1,3-Dichlorobenzene	20.16	146	4086061	50.37 ug/L	99
69) 4-Isopropyltoluene	20.20	119	7788022	52.57 ug/L	100
70) 1,4-Dichlorobenzene	20.30	146	4189352	49.68 ug/L	97
71) tert-Butylbenzene	19.53	91	5558355	51.09 ug/L	97
2) n-Butylbenzene	20.94	91	8242520	52.64 ug/L	97
73) 1,2-Dichlorobenzene	20.99	146	3380204	47.91 ug/L	95
74) 1,2,4-Trimethylbenzene	19.62	105	6595993	49.55 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092399\G0010591.D Vial: 15
Acq On : 23 Sep 1999 2:46 pm Operator: ClaudiaP
Sample : F4907-4msd,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

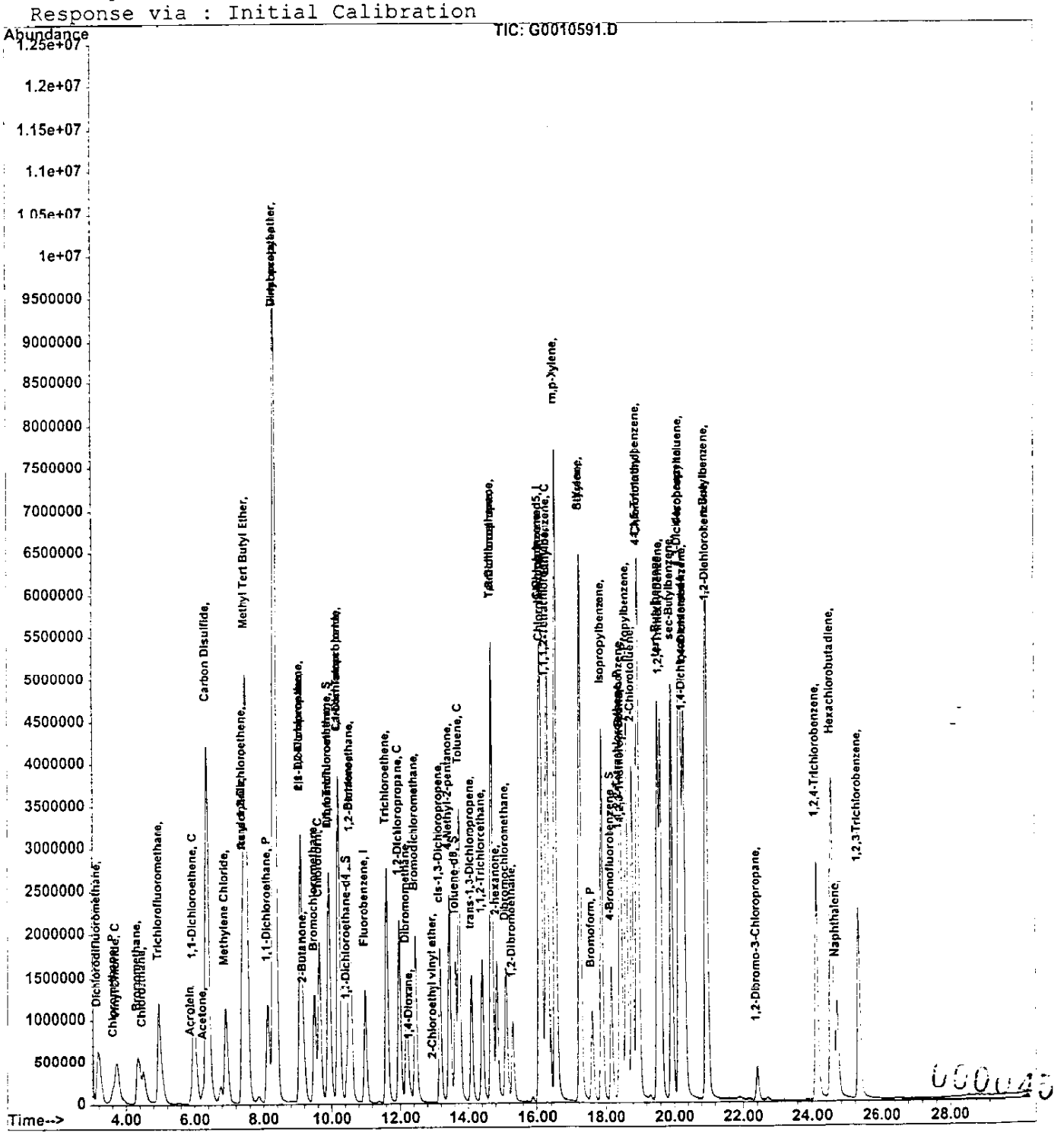
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	1,2-Dibromo-3-Chloropropan	22.41	75	301158	52.99 ug/L	85
76)	1,2,4-Trichlorobenzene	24.15	180	2828808	52.36 ug/L	96
77)	Hexachlorobutadiene	24.55	225	2128339	53.85 ug/L	92
78)	Naphthalene	24.71	128	3009030	51.38 ug/L	99
79)	1,2,3-Trichlorobenzene	25.32	180	2363629	50.90 ug/L	98

(#) = qualifier out of range (m) = manual integration 000044
G0010591.D 8260LL.M Fri Sep 24 07:35:18 1999 MSVOA1 Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092399\G0010591.D Vial: 15
Acq On : 23 Sep 1999 2:46 pm Operator: ClaudiaP
Sample : F4907-4msd,10ml Inst : MSVOA1
Misc : ms380,vg289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 24 7:27 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



METHOD BLANK SUMMARY

Method Blank Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG289-MB	G0010599.D	1	09/27/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4941-1

CAS No.	Compound	Result	RDL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
107-02-8	Acrolein	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
108-86-1	Bromobenzene	ND	2.0	ug/l	
74-97-5	Bromochloromethane	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	

Method Blank Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG289-MB	G0010599.D	1	09/27/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** SW846 8260B

F4941-1

CAS No.	Compound	Result	RDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl 2 pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
108-05-4	Vinyl Acetate	ND	10	ug/l	
	m,p-Xylene	ND	4.0	ug/l	
95-47-6	o-Xylene	ND	2.0	ug/l	

Method Blank Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG289-MB	G0010599.D	1	09/27/99	CJP	n/a	n/a	VG289

The QC reported here applies to the following samples: **Method:** *SW846 8260B*

F4941-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	80-116%
17060-07-0	1,2-Dichloroethane-D4	98%	74-120%
2037-26-5	Toluene-D8	103%	80-120%
460-00-4	4-Bromofluorobenzene	103%	86-115%

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092799\G0010599.D Vial: 8
Acq On : 27 Sep 1999 8:53 am Operator: ClaudiaP
Sample : MB Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 27 9:28 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.96	96	2061386	25.00 ug/L	-0.03
39) Chlorobenzene-d5	16.07	117	1508964	25.00 ug/L	-0.03
57) 1,4-Dichlorobenzene-d4	20.21	152	862979	25.00 ug/L	-0.03
System Monitoring Compounds					
25) Dibromofluoromethane	9.87	113	1002499	46.89	-0.03
Spiked Amount 50.000	Range 80 - 116		Recovery = 93.78%		
28) 1,2-Dichloroethane-d4	10.41	65	575940	48.97	-0.04
Spiked Amount 50.000	Range 74 - 120		Recovery = 97.94%		
40) Toluene-d8	13.60	98	2030400	51.48	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.96%		
59) 4-Bromofluorobenzene	18.13	95	959461	51.44	-0.03
Spiked Amount 50.000	Range 86 - 115		Recovery = 102.88%		

Target Compounds Qvalue

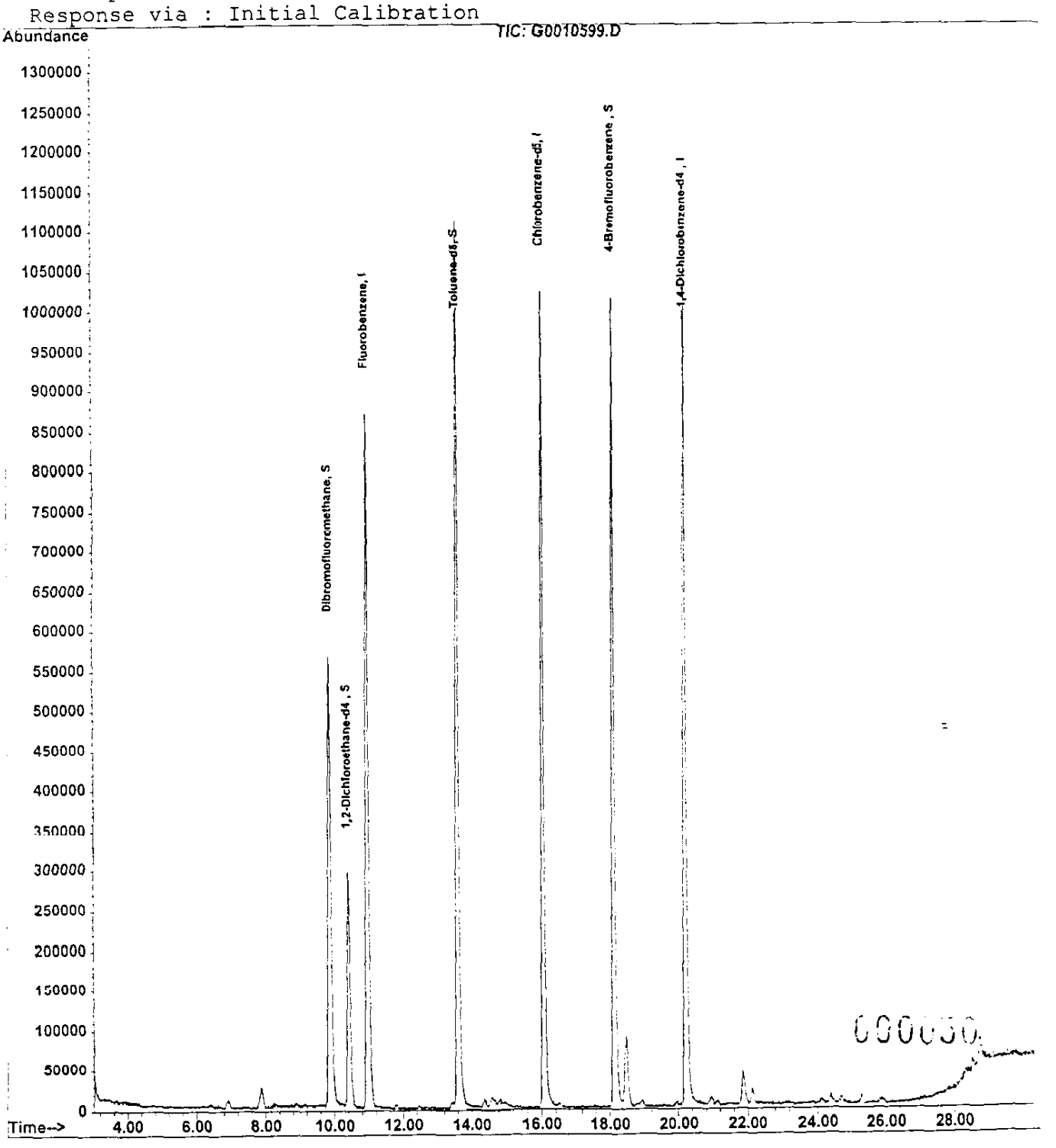
000043

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092799\G0010599.D Vial: 8
Acq On : 27 Sep 1999 8:53 am Operator: ClaudiaP
Sample : MB Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 27 9:28 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



TUNE SUMMARY

VOC.05

Instrument Performance Check (BFB)

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample:	VG290-BFB	**Injection Date:**	09/27/99
Lab File ID:	G0010597.D	**Injection Time:**	08:00
Instrument ID:	GCMSG		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8996	23.7		Pass
75	30.0 - 60.0% of mass 95	20847	54.9		Pass
95	Base peak, 100% relative abundance	38002	100.0		Pass
96	5.0 - 9.0% of mass 95	2410	6.3		Pass
173	Less than 2.0% of mass 174	138	0.36	(0.45) [a]	Pass
174	50.0 - 100.0% of mass 95	30830	81.1		Pass
175	5.0 - 9.0% of mass 174	2424	6.4	(7.9) [a]	Pass
176	95.0 - 101.0% of mass 174	29758	78.3	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	1982	5.2	(6.7) [b]	Pass

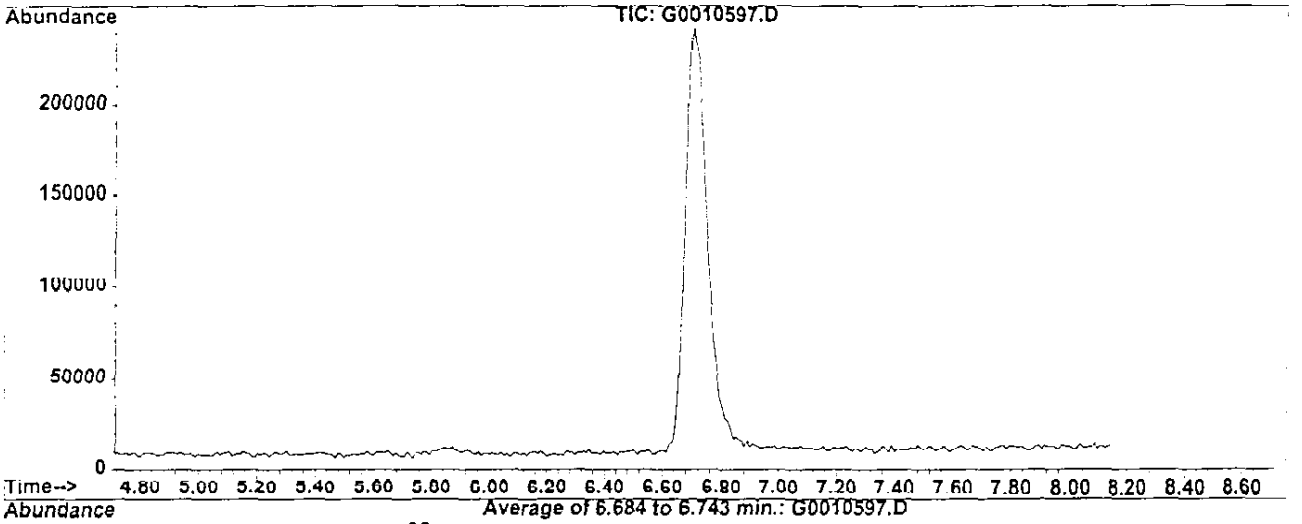
(a) Value is % of mass 174
(b) Value is % of mass 176

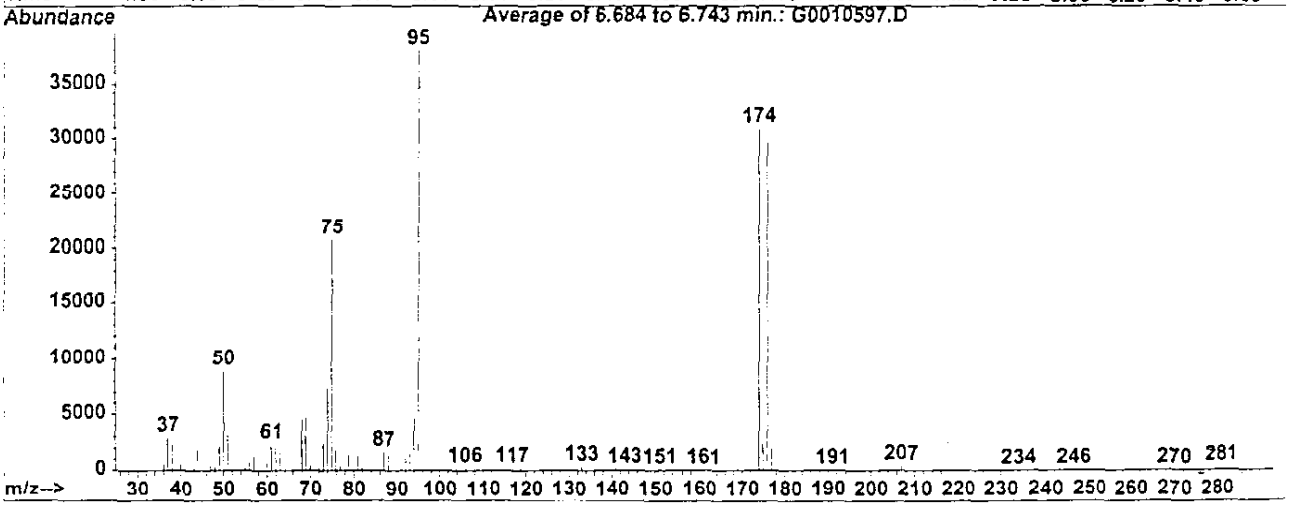
This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG290-CC285	G0010598.D	09/27/99	08:15	00:15	Continuing cal 20
VG290-MB	G0010599.D	09/27/99	08:53	00:53	Method Blank
VG289-MB	G0010599.D	09/27/99	08:53	00:53	Method Blank
F4941-1	G0010600.D	09/27/99	09:33	01:33	GP.01.01
ZZZZZZ	G0010601.D	09/27/99	10:12	02:12	(unrelated sample)
F4937-2	G0010602.D	09/27/99	10:51	02:51	(used for QC only; not part of job F4941)
ZZZZZZ	G0010603.D	09/27/99	11:29	03:29	(unrelated sample)
ZZZZZZ	G0010604.D	09/27/99	12:08	04:08	(unrelated sample)
ZZZZZZ	G0010605.D	09/27/99	12:47	04:47	(unrelated sample)
ZZZZZZ	G0010606.D	09/27/99	13:26	05:26	(unrelated sample)
ZZZZZZ	G0010608.D	09/27/99	14:44	06:44	(unrelated sample)
ZZZZZZ	G0010609.D	09/27/99	15:23	07:23	(unrelated sample)
ZZZZZZ	G0010610.D	09/27/99	16:02	08:02	(unrelated sample)
ZZZZZZ	G0010611.D	09/27/99	16:41	08:41	(unrelated sample)
F4937-2DUP	G0010612.D	09/27/99	17:20	09:20	Duplicate
F4937-2MS	G0010613.D	09/27/99	17:59	09:59	Matrix Spike
F4937-2MSD	G0010614.D	09/27/99	18:38	10:38	Matrix Spike Duplicate
VG290-BS	G0010615.D	09/27/99	19:17	11:17	Blank Spike

Methods: SW-846 8260B

Data File : C:\HPCHEM\1\DATA\092799\G0010597.D Vial: 100
Acq On : 27 Sep 1999 8:00 am Operator: ClaudiaP
Sample : BFB tune Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)





Spectrum Information: Average of 6.684 to 6.743 min.

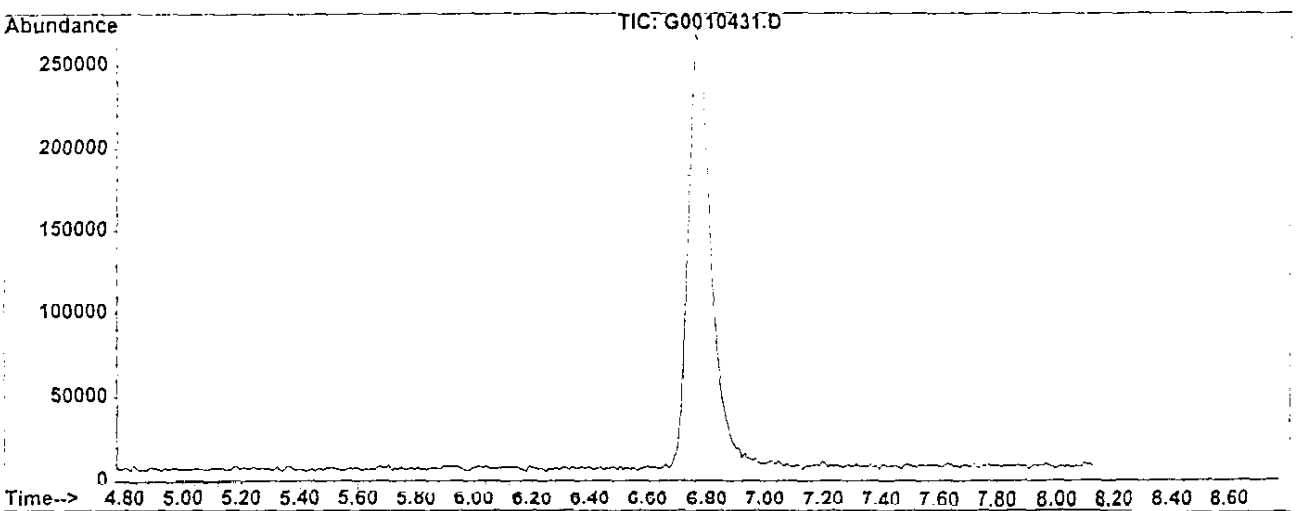
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.7	8996	PASS
75	95	30	60	54.9	20847	PASS
95	95	100	100	100.0	38002	PASS
96	95	5	9	6.3	2410	PASS
173	174	0.00	2	0.4	138	PASS
174	95	50	100	81.1	30830	PASS
175	174	5	9	7.9	2424	PASS
176	174	95	101	96.5	29758	PASS
177	176	5	9	6.7	1982	PASS

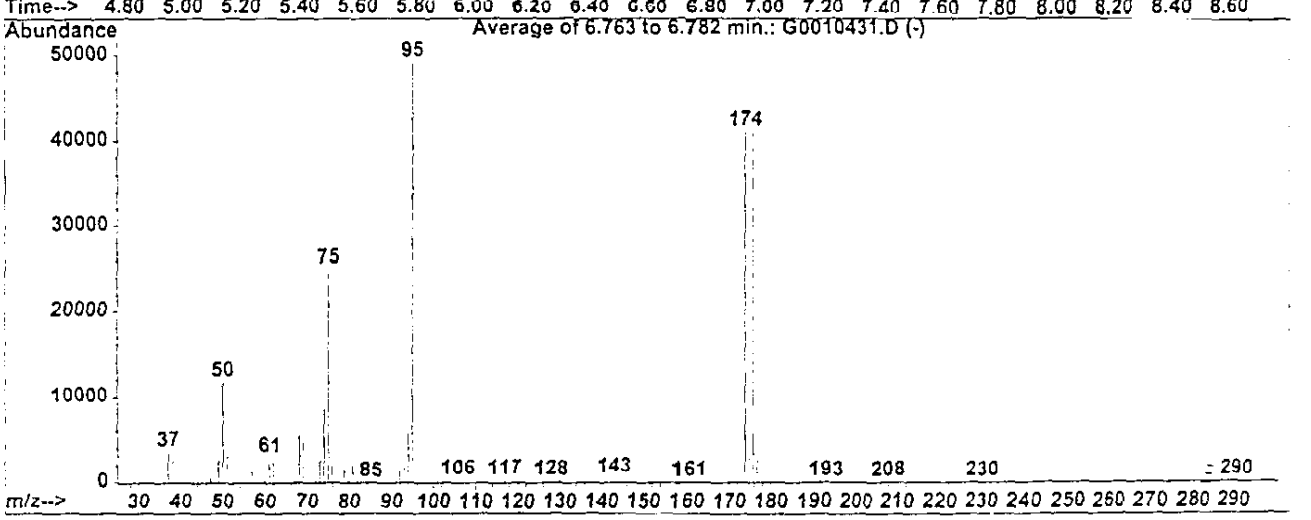
G0010597.D 8260LL.M Tue Sep 28 09:01:55 1999 MSVOA1

INITIAL CALIBRATION SUMMARY

Methods: SW 846 8260B

Data File : C:\HPCHEM\1\DATA\091099\G0010431.D Vial: 100
Acq On : 10 Sep 1999 1:17 pm Operator: ClaudiaP
Sample : BFB tune Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)





Spectrum Information: Average of 6.763 to 6.782 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	11789	PASS
75	95	30	60	50.8	24976	PASS
95	95	100	100	100.0	49165	PASS
96	95	5	9	6.7	3303	PASS
173	174	0.00	2	0.4	166	PASS
174	95	50	100	83.3	40933	PASS
175	174	5	9	7.2	2953	PASS
176	174	95	101	99.8	40864	PASS
177	176	5	9	6.6	2703	PASS

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:11:03 1999
Response via : Initial Calibration

Calibration Files
1 =G0010432.D 2 =G0010433.D 3 =G0010434.D
4 =G0010435.D 5 =G0010436.D 6 =G0010437.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.485	0.535	0.499	0.506	0.502	0.486	0.502	3.65
3)	P	Chloromethane	0.242	0.246	0.242	0.229	0.230	0.225	0.236	3.67
4)	C	Vinyl Chloride	0.237	0.273	0.261	0.274	0.273	0.273	0.265	5.60
5)		Bromomethane	0.229	0.248	0.241	0.243	0.255	0.254	0.245	3.99
6)		Chloroethane	0.165		0.140	0.132	0.132	0.129	0.140	10.44
7)		Trichlorofluorometh	0.612	0.750	0.703	0.698	0.701	0.669	0.689	6.64
8)		Acrolein		0.003	0.003	0.003	0.003	0.003	0.003	5.94
9)	C	1,1-Dichloroethene	0.506	0.577	0.534	0.530	0.539	0.532	0.537	4.30
10)		Acetone		0.034	0.032	0.031	0.029	0.028	0.031	7.92
11)		Carbon Disulfide	0.669	0.802	0.764	0.765	0.789	0.784	0.762	6.30
12)		Methylene Chloride		0.412	0.395	0.381	0.379	0.374	0.388	3.93
13)		trans-1,2-Dichloroe	0.512	0.560	0.531	0.542	0.547	0.541	0.539	3.01
14)		Acrylonitrile	0.014	0.015	0.015	0.014	0.015	0.014	0.015	2.69
15)		Methyl Tert Butyl E	0.558	0.588	0.564	0.553	0.567	0.566	0.566	2.12
	P	1,1-Dichloroethane	0.579	0.640	0.594	0.597	0.605	0.605	0.603	3.39
17)		Vinyl acetate	0.450	0.491	0.479		0.499	0.497	0.483	4.21
18)		Di-isopropyl ether	1.077	1.099	1.043	1.017	1.044	1.035	1.053	2.84
19)		2,2-Dichloropropane	0.517	0.583	0.537	0.546	0.551	0.542	0.546	3.96
20)		cis-1,2-Dichloroeth	0.300	0.291	0.278	0.282	0.281	0.278	0.285	3.00
21)		2-Butanone	0.055	0.054	0.048	0.050	0.049	0.049	0.051	5.91
22)		Bromochloromethane	0.164	0.192	0.179	0.185	0.184	0.185	0.181	5.16
23)	C	Chloroform	0.614	0.692	0.665	0.657	0.675	0.663	0.661	3.95
24)		1,1,1-Trichloroetha	0.535	0.648	0.594	0.599	0.609	0.595	0.597	6.11
25)	S	Dibromofluoromethan	0.252	0.263	0.259	0.255	0.262	0.265	0.259	1.90
26)		1,1-Dichloropropene	0.394	0.473	0.444	0.444	0.446	0.442	0.441	5.85
27)		Carbon Tetrachlorid		0.539	0.526	0.542	0.560	0.553	0.544	2.43
28)	S	1,2-Dichloroethane-	0.143	0.145	0.138	0.147	0.137	0.146	0.143	3.03
29)		Benzene	0.751	0.767	0.736	0.650	0.703	0.738	0.724	5.80
30)		1,2-Dichloroethane	0.380	0.378	0.374	0.341	0.359	0.364	0.366	3.98
31)		Trichloroethene	0.395	0.430	0.420	0.431	0.414	0.419	0.418	3.03
32)	C	1,2-Dichloropropane	0.325	0.353	0.334	0.338	0.342	0.344	0.339	2.79
33)		Dibromomethane	0.221	0.238	0.234	0.241	0.243	0.241	0.236	3.36
34)		1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	5.33
35)		Bromodichloromethan		0.534	0.538	0.558	0.585	0.584	0.560	4.36
36)		2-Chloroethyl vinyl	0.023	0.024	0.026	0.026	0.032	0.030	0.027	12.78
37)		4-Methyl-2-pentanon	0.132	0.163	0.167	0.163	0.166	0.165	0.159	8.45
38)		cis-1,3-Dichloropro		0.430	0.422	0.443	0.462	0.459	0.443	3.92
39)	I	Chlorobenzene-d5	----------ISTD----------							
)	S	Toluene-d8	0.631	0.661	0.651	0.652	0.664	0.661	0.653	1.83
41)	C	Toluene	1.263	1.497	1.359	1.360	1.392	1.343	1.369	5.56
42)		trans-1,3-Dichlorop		0.429	0.429	0.452	0.490	0.490	0.458	6.70

(#) = Out of Range

Response Factor Report MSVOA1

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:11:03 1999
Response via : Initial Calibration

Calibration Files
1 =G0010432.D 2 =G0010433.D 3 =G0010434.D
4 =G0010435.D 5 =G0010436.D 6 =G0010437.D

		Compound	1	2	3	4	5	6	Avg	%RSD
43)		1,1,2-Trichloroetha	0.230	0.297	0.271	0.275	0.282	0.274	0.271	8.28
44)		Tetrachloroethene	0.636	0.723	0.675	0.681	0.686	0.661	0.677	4.25
45)		2-hexanone	0.128	0.148	0.143	0.145	0.144	0.142	0.142	4.80
46)		1,3-Dichloropropane	0.470	0.536	0.502	0.500	0.512	0.493	0.502	4.34
47)		Dibromochloromethan		0.434	0.437	0.488	0.513	0.510	0.476	8.06
48)		1,2-Dibromoethane		0.383	0.386	0.391	0.405	0.399	0.393	2.29
49)		1-Chlorohexane	0.607	0.678	0.638	0.631	0.660	0.623	0.639	4.03
50)	P	Chlorobenzene	0.968	1.064	0.990	0.989	0.990	0.985	0.998	3.39
51)		1,1,1,2-Tetrachloro		0.487	0.459	0.481	0.503	0.506	0.487	3.90
52)	C	Ethylbenzene	1.631	1.843	1.670	1.672	1.673	1.689	1.696	4.38
53)		m,p-Xylene	1.331	1.439	1.388	1.369	1.408	1.388	1.387	2.62
54)		o-Xylene	1.255	1.456	1.372	1.355	1.394	1.355	1.365	4.81
55)		Styrene	0.693	0.884	0.856	0.888	0.885	0.896	0.851	9.21
56)	P	Bromoform		0.252	0.262	0.289	0.316	0.319	0.288	10.57
57)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
58)		Isopropylbenzene	2.832	3.032	2.908	2.822	2.875	2.899	2.895	2.61
59)	S	4-Bromofluorobenzen	0.548	0.546	0.534	0.527	0.542	0.545	0.540	1.57
60)		Bromobenzene	0.781	0.809	0.788	0.775	0.782	0.793	0.788	1.54
61)	P	1,1,2,2-Tetrachloro	0.557	0.632	0.615	0.579	0.628	0.626	0.606	5.08
62)		1,2,3-Trichloroprop	0.134	0.161	0.162	0.159	0.158	0.158	0.155	6.80
63)		n-Propylbenzene	3.622	3.748	3.543	3.508	3.521	3.528	3.578	2.58
64)		2-Chlorotoluene	2.234	2.271	2.186	2.090	2.131	2.103	2.169	3.39
65)		4-Chlorotoluene	2.526	2.562	2.436	2.391	2.432	2.398	2.458	2.85
66)		1,3,5-Trimethylbenz	2.406	2.547	2.430	2.373	2.389	2.386	2.422	2.66
67)		sec-Butylbenzene	3.312	3.468	3.306	3.148	3.267	3.352	3.309	3.17
68)		1,3-Dichlorobenzene	1.456	1.510	1.449	1.420	1.431	1.471	1.456	2.19
69)		4-Isopropyltoluene	2.636	2.827	2.691	2.588	2.624	2.588	2.659	3.41
70)		1,4-Dichlorobenzene	1.622	1.575	1.506	1.422	1.473	1.483	1.514	4.81
71)		tert-Butylbenzene	1.882	2.072	1.981	1.902	1.919	1.961	1.953	3.53
72)		n-Butylbenzene	2.751	2.989	2.775	2.690	2.809	2.850	2.811	3.85
73)		1,2-Dichlorobenzene	1.259	1.347	1.304	1.209	1.243	1.236	1.266	3.99
74)		1,2,4-Trimethylbenz	2.436	2.527	2.371	2.327	2.348	2.327	2.389	3.30
75)		1,2-Dibromo-3-Chlor		0.097	0.095	0.099	0.110	0.110	0.102	8.93
76)		1,2,4-Trichlorobenz	0.849	0.972	0.961	0.996	1.008	1.033	0.970	6.65
77)		Hexachlorobutadiene	0.705	0.765	0.687	0.684	0.728	0.686	0.709	4.52
78)		Naphthalene		0.955	1.018	1.066	1.108	1.108	1.051	6.22
79)		1,2,3-Trichlorobenz	0.709	0.834	0.843	0.850	0.867	0.897	0.834	7.78

000085

(#) = Out of Range

GC/MS QA-QC Check Report

ıne File : C:\HPCHEM\1\DATA\091099\G0010431.D
ır Time : 10 Sep 1999 1:17 pm

aily Calibration File : C:\HPCHEM\1\DATA\091099\G0010432.D

						2380320	1821450	1072160
ile	Sample	Surrogate Recovery %				Internal Standard Responses		
0010432.D	IC285-1,	96	99	96	100	2380322	1821450	1072163
0010433.D	IC285-5,	101	100	101	100	2293539	1705799	1065995
0010434.D	IC285-10	99	95	100	97	2257956	1695418	1050102
0010435.D	ICC285-2	98	101	100	96	2300028	1727821	1086085
0010436.D	IC285-35	100	94	101	99	2290982	1707464	1080892
0010437.D	IC285-50	101	100	101	100	2272240	1711492	1070056
0010438.D	ICV-20,1	100	103	100	99	2318724	1717719	1079762
0010439.D	MB,10ml	99	102	98	104	2334293	1761886	1027712

t - fails 12hr time check * - fails criteria

Created: Mon Sep 13 10:48:13 1999 MSVOA1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010432.D Vial: 1
Acq On : 10 Sep 1999 1:32 pm Operator: ClaudiaP
ample : IC285-1,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:31 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.03	96	2380322	25.00	ug/L	0.04
39) Chlorobenzene-d5	16.12	117	1821450	25.00	ug/L	0.04
57) 1,4-Dichlorobenzene-d4	20.27	152	1072163	25.00	ug/L	0.02
System Monitoring Compounds						
25) Dibromofluoromethane	9.93	113	1200748	48.22		0.04
Spiked Amount 50.000	Range 80 - 116		Recovery =	96.44%		
28) 1,2-Dichloroethane-d4	10.47	65	682711	49.38		0.02
Spiked Amount 50.000	Range 74 - 120		Recovery =	98.76%		
40) Toluene-d8	13.65	98	2300085	48.24		0.03
Spiked Amount 50.000	Range 80 - 120		Recovery =	96.48%		
59) 4-Bromofluorobenzene	18.18	95	1176159	50.09		0.00
Spiked Amount 50.000	Range 86 - 115		Recovery =	100.18%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.20	85	46212	1.57	ug/L	91
3) Chloromethane	3.64	50	22996	1.26	ug/L #	47
4) Vinyl Chloride	3.73	62	22530	1.03	ug/L	87
5) Bromomethane	4.38	94	21757	1.08	ug/L #	68
6) Chloroethane	4.59	64	15693m	1.21	ug/L	
7) Trichlorofluoromethane	5.09	101	58284	0.86	ug/L	96
9) 1,1-Dichloroethene	6.05	61	48204	0.92	ug/L	95
10) Acetone	6.18	43	19581	6.41	ug/L	80
11) Carbon Disulfide	6.45	76	318288	4.30	ug/L	92
12) Methylene Chloride	6.94	49	52940	1.36	ug/L	92
13) trans-1,2-Dichloroethene	7.44	61	48782	0.94	ug/L	93
14) Acrylonitrile	7.39	53	6760m	3.31	ug/L	
15) Methyl Tert Butyl Ether	7.46	73	53172	0.96	ug/L	94
16) 1,1-Dichloroethane	8.15	63	55156	0.98	ug/L	98
17) Vinyl acetate	8.26	43	214014	4.29	ug/L	97
18) Di-isopropyl ether	8.33	45	102551	0.98	ug/L	90
19) 2,2-Dichloropropane	9.14	77	49185	0.95	ug/L	97
20) cis-1,2-Dichloroethene	9.14	96	28529	1.06	ug/L #	77
21) 2-Butanone	9.19	43	26201	5.06	ug/L	88
22) Bromochloromethane	9.52	128	15636	0.93	ug/L #	74
23) Chloroform	9.68	83	58453	0.94	ug/L	92
24) 1,1,1-Trichloroethane	9.95	97	50959	0.87	ug/L	93
26) 1,1-Dichloropropene	10.23	75	37481	0.88	ug/L	89
27) Carbon Tetrachloride	10.25	117	38754	0.74	ug/L	90
29) Benzene	10.56	78	71505	1.16	ug/L #	9
30) 1,2-Dichloroethane	10.59	62	36191	1.16	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010432.D Vial: 1
Acq On : 10 Sep 1999 1:32 pm Operator: ClaudiaP
Sample : 10285-1,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:31 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Trichloroethene	11.63	95	37640	0.93 ug/L	97
32) 1,2-Dichloropropane	12.00	63	30905	0.95 ug/L #	84
33) Dibromomethane	12.21	93	21073	0.93 ug/L	85
35) Bromodichloromethane	12.47	83	41044	0.77 ug/L #	95
36) 2-Chloroethyl vinyl ether	12.96	63	10869	4.30 ug/L	89
37) 4-Methyl-2-pentanone	13.47	43	62785	3.67 ug/L	90
38) cis-1,3-Dichloropropene	13.21	75	32103	0.78 ug/L	95
41) Toluene	13.77	91	92049	0.89 ug/L	87
42) trans-1,3-Dichloropropene	14.13	75	26384	0.76 ug/L	93
43) 1,1,2-Trichloroethane	14.45	83	16727	0.83 ug/L	96
44) Tetrachloroethene	14.71	166	46316	0.95 ug/L	94
45) 2-hexanone	14.87	43	46741	4.01 ug/L	90
46) 1,3-Dichloropropane	14.73	76	34223	0.90 ug/L	91
47) Dibromochloromethane	15.13	129	24727	0.70 ug/L	83
48) 1,2-Dibromoethane	15.33	107	21385	0.73 ug/L	89
49) 1-Chlorohexane	16.11	91	44197	0.93 ug/L #	86
50) Chlorobenzene	16.18	112	70503	0.98 ug/L	92
51) 1,1,1,2-Tetrachloroethane	16.30	131	27180	0.77 ug/L #	82
52) Ethylbenzene	16.35	91	118833	0.94 ug/L	98
53) m,p-Xylene	16.56	91	193913	1.88 ug/L	95
54) o-Xylene	17.26	91	91422	0.91 ug/L	91
55) Styrene	17.28	104	50494	0.78 ug/L	94
56) Bromoform	17.61	173	12271	0.54 ug/L	88
58) Isopropylbenzene	17.90	105	121446	0.96 ug/L	96
60) Bromobenzene	18.46	156	33485	0.99 ug/L #	68
61) 1,1,2,2-Tetrachloroethane	18.43	83	23896	0.85 ug/L	99
62) 1,2,3-Trichloropropane	18.50	110	5746m	0.81 ug/L	
63) n-Propylbenzene	18.64	91	155341	0.99 ug/L	98
64) 2-Chlorotoluene	18.80	91	95796	1.03 ug/L	94
65) 4-Chlorotoluene	19.00	91	108338	1.02 ug/L	100
66) 1,3,5-Trimethylbenzene	18.96	105	103203	0.98 ug/L	97
67) sec-Butylbenzene	19.95	105	142019	0.99 ug/L	93
68) 1,3-Dichlorobenzene	20.15	146	62432	1.00 ug/L	88
69) 4-Isopropyltoluene	20.21	119	113053	0.98 ug/L	97
70) 1,4-Dichlorobenzene	20.31	146	69546m	1.08 ug/L	
71) tert-Butylbenzene	19.56	91	80696	0.93 ug/L	96
72) n-Butylbenzene	20.96	91	117969	0.96 ug/L	97
73) 1,2-Dichlorobenzene	21.00	146	54015	0.99 ug/L	85
74) 1,2,4-Trimethylbenzene	19.64	105	104487	1.00 ug/L	93
75) 1,2-Dibromo-3-Chloropropan	22.42	75	2280m	0.47 ug/L	
76) 1,2,4-Trichlorobenzene	24.16	180	36396	0.85 ug/L	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010432.D Vial: 1
Acq On : 10 Sep 1999 1:32 pm Operator: ClaudiaP
Sample : IC285-1,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:31 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

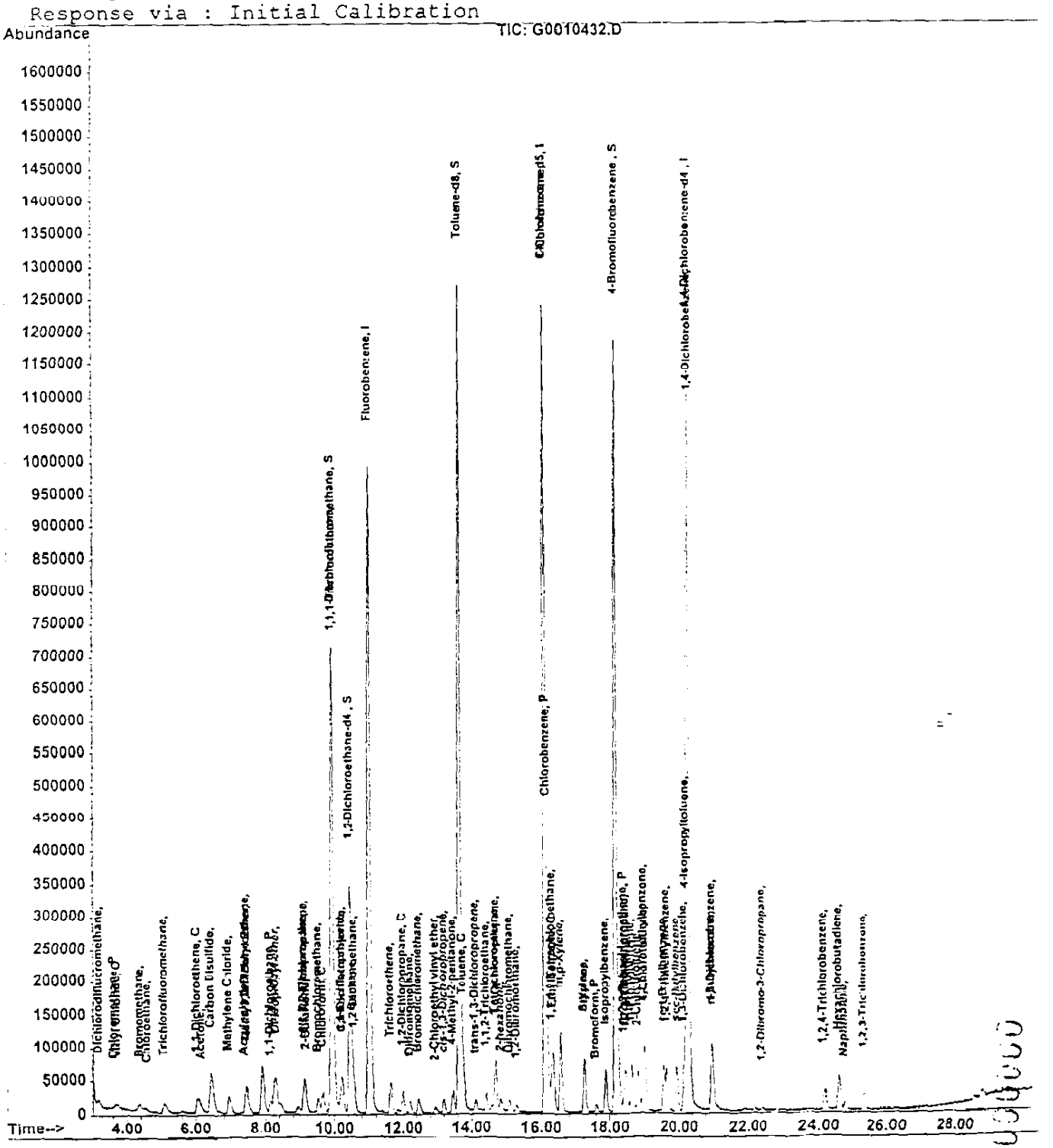
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) Hexachlorobutadiene	24.58	225	30238	1.08 ug/L	83
78) Naphthalene	24.76	128	34713m	0.76 ug/L	
79) 1,2,3-Trichlorobenzene	25.37	180	30416	0.85 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010432.D Vial: 1
Acq On : 10 Sep 1999 1:32 pm Operator: ClaudiaP
Sample : IC285-1,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:31 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010433.D Vial: 2
Acq On : 10 Sep 1999 2:11 pm Operator: ClaudiaP
ample : IC285-5,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:33 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.00	96	2293539	25.00	ug/L	0.01
39) Chlorobenzene-d5	16.09	117	1705799	25.00	ug/L	0.01
57) 1,4-Dichlorobenzene-d4	20.26	152	1065995	25.00	ug/L	0.01
System Monitoring Compounds						
25) Dibromofluoromethane	9.91	113	1207978	50.34		0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.68%			
28) 1,2-Dichloroethane-d4	10.47	65	666750	50.05		0.02
Spiked Amount 50.000	Range 74 - 120		Recovery = 100.10%			
40) Toluene-d8	13.64	98	2256227	50.53		0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.06%			
59) 4-Bromofluorobenzene	18.17	95	1165041	49.91		0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	245627	8.66	ug/L	100
3) Chloromethane	3.66	50	112834	6.44	ug/L	98
4) Vinyl Chloride	3.73	62	125226	5.96	ug/L	95
5) Bromomethane	4.37	94	113623	5.88	ug/L	97
6) Chloroethane	4.54	64	86317m	6.89	ug/L	
7) Trichlorofluoromethane	5.10	101	344016	5.27	ug/L	94
8) Acrolein	5.90	56	7469m	14.93	ug/L	
9) 1,1-Dichloroethene	6.07	61	264823	5.25	ug/L	97
10) Acetone	6.19	43	78666	26.73	ug/L	98
11) Carbon Disulfide	6.44	76	1838429	25.80	ug/L	97
12) Methylene Chloride	6.94	49	188804	5.02	ug/L	87
13) trans-1,2-Dichloroethene	7.44	61	257077	5.15	ug/L	95
14) Acrylonitrile	7.36	53	34161	17.39	ug/L	95
15) Methyl Tert Butyl Ether	7.46	73	269740	5.06	ug/L	97
16) 1,1-Dichloroethane	8.15	63	293713	5.41	ug/L	94
17) Vinyl acetate	8.26	43	1127165	23.46	ug/L	99
18) Di-isopropyl ether	8.32	45	504057	4.99	ug/L	94
19) 2,2-Dichloropropane	9.10	77	267294	5.37	ug/L	99
20) cis-1,2-Dichloroethene	9.12	96	133449	5.16	ug/L	89
21) 2-Butanone	9.17	43	124965	25.02	ug/L	99
22) Bromochloromethane	9.52	128	87901	5.43	ug/L #	73
23) Chloroform	9.65	83	317572	5.29	ug/L	95
24) 1,1,1-Trichloroethane	9.94	97	297468	5.29	ug/L	97
26) 1,1-Dichloropropene	10.22	75	216989	5.27	ug/L	96
27) Carbon Tetrachloride	10.23	117	247111	4.93	ug/L	95
29) Benzene	10.55	78	351767	5.91	ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010433.D Vial: 2
Acq On : 10 Sep 1999 2:11 pm Operator: ClaudiaP
Sample : IC285-5,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:33 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30)	1,2-Dichloroethane	10.57	62	173483	5.76 ug/L	96
31)	Trichloroethene	11.62	95	197047	5.04 ug/L	96
32)	1,2-Dichloropropane	11.97	63	161700	5.16 ug/L	94
33)	Dibromomethane	12.17	93	109247	5.00 ug/L	96
34)	1,4-Dioxane	12.26	88	11037	91.46 ug/L #	79
35)	Bromodichloromethane	12.45	83	244736	4.79 ug/L	90
36)	2-Chloroethyl vinyl ether	12.93	63	54802	22.51 ug/L #	75
37)	4-Methyl-2-pentanone	13.44	43	374135	22.70 ug/L	98
38)	cis-1,3-Dichloropropene	13.19	75	197050	4.96 ug/L	97
41)	Toluene	13.75	91	510743	5.29 ug/L	98
42)	trans-1,3-Dichloropropene	14.10	75	146332	4.53 ug/L	97
43)	1,1,2-Trichloroethane	14.42	83	101238	5.36 ug/L	95
4)	Tetrachloroethene	14.69	166	246549	5.41 ug/L	97
45)	2-hexanone	14.85	43	251712	23.08 ug/L	96
46)	1,3-Dichloropropane	14.69	76	182752	5.16 ug/L	96
47)	Dibromochloromethane	15.11	129	148129	4.45 ug/L	96
48)	1,2-Dibromoethane	15.31	107	130645	4.77 ug/L	86
49)	1-Chlorohexane	16.08	91	231254	5.19 ug/L	92
50)	Chlorobenzene	16.15	112	363141	5.38 ug/L	96
51)	1,1,1,2-Tetrachloroethane	16.29	131	166167	5.03 ug/L	96
52)	Ethylbenzene	16.33	91	628710	5.32 ug/L	96
53)	m,p-Xylene	16.54	91	981656	10.16 ug/L	99
54)	o-Xylene	17.24	91	496822	5.25 ug/L	98
55)	Styrene	17.26	104	301718	5.00 ug/L	99
56)	Bromoform	17.60	173	86118	4.07 ug/L	94
58)	Isopropylbenzene	17.89	105	646366	5.16 ug/L	98
60)	Bromobenzene	18.44	156	172472	5.13 ug/L	90
61)	1,1,2,2-Tetrachloroethane	18.41	83	134721	4.80 ug/L	96
62)	1,2,3-Trichloropropane	18.47	110	34295	4.87 ug/L	86
63)	n-Propylbenzene	18.62	91	799072	5.14 ug/L	96
64)	2-Chlorotoluene	18.78	91	484266	5.23 ug/L	97
65)	4-Chlorotoluene	18.98	91	546135	5.18 ug/L	97
66)	1,3,5-Trimethylbenzene	18.93	105	543083	5.20 ug/L	99
67)	sec-Butylbenzene	19.92	105	739360	5.18 ug/L	97
68)	1,3-Dichlorobenzene	20.14	146	321898	5.17 ug/L	97
69)	4-Isopropyltoluene	20.18	119	602815	5.25 ug/L	100
70)	1,4-Dichlorobenzene	20.29	146	335891	5.26 ug/L	89
71)	tert-Butylbenzene	19.52	91	441657	5.13 ug/L	97
72)	n-Butylbenzene	20.95	91	637214	5.22 ug/L	92
73)	1,2-Dichlorobenzene	20.99	146	287196	5.27 ug/L	94
74)	1,2,4-Trimethylbenzene	19.62	105	538811	5.17 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010433.D Vial: 2
Acq On : 10 Sep 1999 2:11 pm Operator: ClaudiaP
Sample : IC285-5,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:33 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

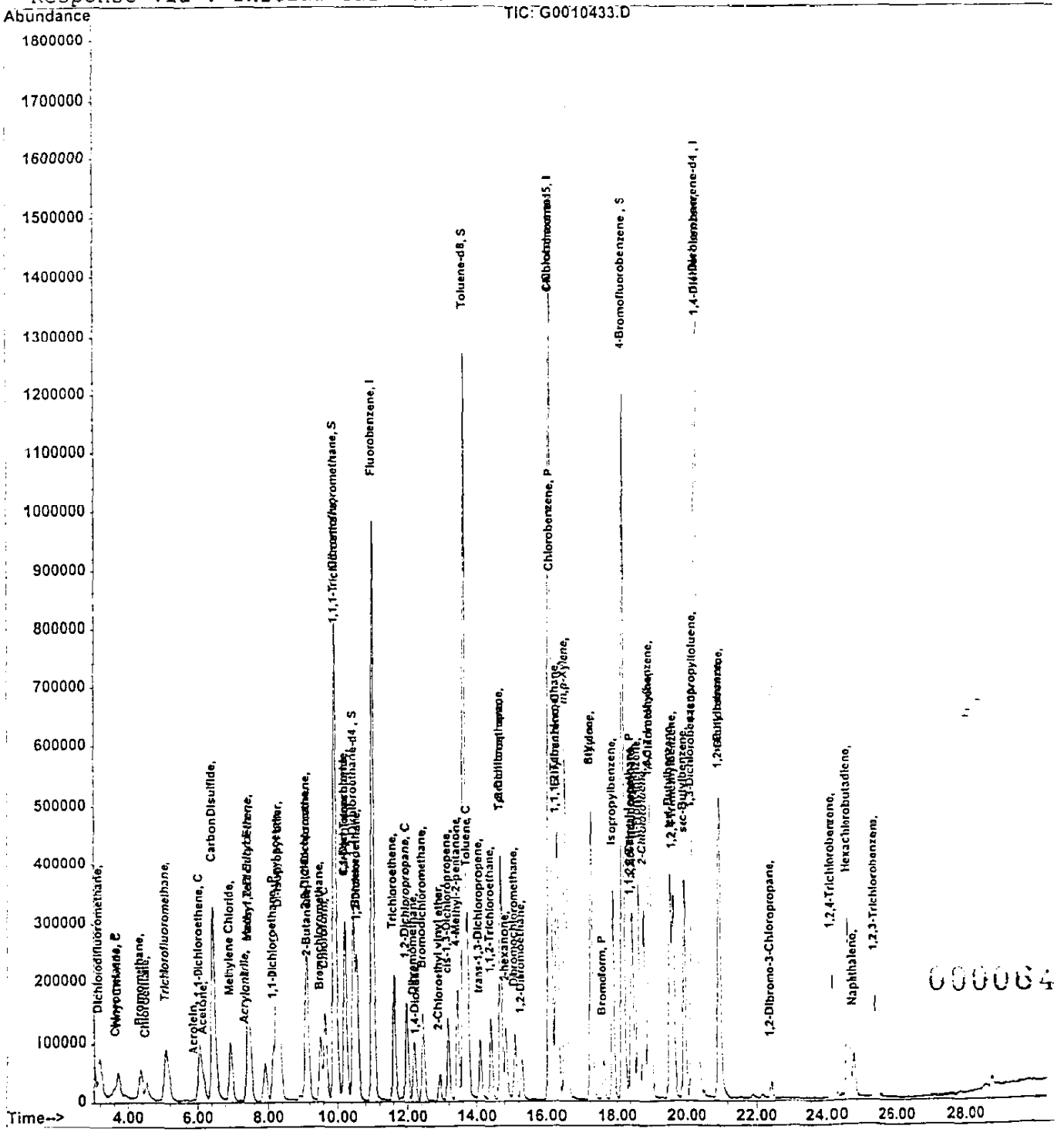
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	1,2-Dibromo-3-Chloropropan	22.42	75	20620	4.26 ug/L #	86
76)	1,2,4-Trichlorobenzene	24.16	180	207308	4.85 ug/L	97
77)	Hexachlorobutadiene	24.55	225	163131	5.89 ug/L	91
78)	Naphthalene	24.73	128	203574	4.47 ug/L	98
79)	1,2,3-Trichlorobenzene	25.34	180	177825	4.98 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010433.D Vial: 2
Acq On : 10 Sep 1999 2:11 pm Operator: ClaudiaP
Sample : IC285-5,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:33 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010434.D Vial: 3
Acq On : 10 Sep 1999 2:50 pm Operator: ClaudiaP
Sample : IC285-10,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:35 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

CP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.99	96	2257956	25.00	ug/L	0.00
39) Chlorobenzene-d5	16.09	117	1695418	25.00	ug/L	0.00
57) 1,4-Dichlorobenzene-d4	20.27	152	1050102	25.00	ug/L	0.01
System Monitoring Compounds						
25) Dibromofluoromethane	9.91	113	1166291	49.37		0.01
Spiked Amount 50.000	Range 80 - 116		Recovery =	98.74%		
28) 1,2-Dichloroethane-d4	10.44	65	623198	47.51		0.00
Spiked Amount 50.000	Range 74 - 120		Recovery =	95.02%		
40) Toluene-d8	13.63	98	2208865	49.77		0.01
Spiked Amount 50.000	Range 80 - 120		Recovery =	99.54%		
59) 4-Bromofluorobenzene	18.16	95	1120612	48.73		-0.01
Spiked Amount 50.000	Range 86 - 115		Recovery =	97.46%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.18	85	450922	16.15	ug/L	99
3) Chloromethane	3.62	50	218984	12.70	ug/L	99
4) Vinyl Chloride	3.72	62	235912	11.40	ug/L	99
5) Bromomethane	4.35	94	217654	11.43	ug/L	96
6) Chloroethane	4.54	64	126240	10.23	ug/L	89
7) Trichlorofluoromethane	5.06	101	635191	9.88	ug/L	88
8) Acrolein	5.86	56	13019m	26.44	ug/L	
9) 1,1-Dichloroethene	6.05	61	482353	9.72	ug/L	98
10) Acetone	6.19	43	142817	49.30	ug/L	98
11) Carbon Disulfide	6.43	76	3449949	49.19	ug/L	96
12) Methylene Chloride	6.92	49	357066	9.64	ug/L	94
13) trans-1,2-Dichloroethene	7.42	61	479600	9.75	ug/L	98
14) Acrylonitrile	7.38	53	66622	34.44	ug/L	89
15) Methyl Tert Butyl Ether	7.46	73	509283	9.70	ug/L	98
16) 1,1-Dichloroethane	8.15	63	536110	10.04	ug/L	93
17) Vinyl acetate	8.24	43	2164712	45.76	ug/L	98
18) Di-isopropyl ether	8.31	45	941909	9.47	ug/L	92
19) 2,2-Dichloropropane	9.09	77	485222	9.91	ug/L	100
20) cis-1,2-Dichloroethene	9.11	96	251142	9.86	ug/L	97
21) 2-Butanone	9.15	43	218807	44.51	ug/L	96
22) Bromochloromethane	9.50	128	161453	10.12	ug/L	90
23) Chloroform	9.63	83	600193	10.16	ug/L	98
24) 1,1,1-Trichloroethane	9.94	97	536251	9.69	ug/L	94
26) 1,1-Dichloropropene	10.21	75	401256	9.90	ug/L	96
27) Carbon Tetrachloride	10.21	117	474826	9.61	ug/L	94
29) Benzene	10.53	78	665121	11.36	ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010434.D Vial: 3
Acq On : 10 Sep 1999 2:50 pm Operator: ClaudiaP
Sample : IC285-10,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:35 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,2-Dichloroethane	10.57	62	337820	11.38 ug/L	99
31) Trichloroethene	11.60	95	378941	9.85 ug/L	93
32) 1,2-Dichloropropane	11.97	63	301726	9.78 ug/L	92
33) Dibromomethane	12.19	93	211324	9.83 ug/L	98
34) 1,4-Dioxane	12.26	88	21321	179.47 ug/L	92
35) Bromodichloromethane	12.44	83	486049	9.66 ug/L	98
36) 2-Chloroethyl vinyl ether	12.93	63	115283	48.10 ug/L	92
37) 4-Methyl-2-pentanone	13.45	43	752180	46.35 ug/L	99
38) cis-1,3-Dichloropropene	13.18	75	381567	9.76 ug/L	98
41) Toluene	13.74	91	921932	9.61 ug/L	99
42) trans-1,3-Dichloropropene	14.10	75	291114	9.07 ug/L	96
43) 1,1,2-Trichloroethane	14.41	83	183601	9.77 ug/L	97
4) Tetrachloroethene	14.69	166	457705	10.11 ug/L	98
45) 2-hexanone	14.84	43	484352	44.68 ug/L	98
46) 1,3-Dichloropropane	14.70	76	340557	9.67 ug/L	97
47) Dibromochloromethane	15.11	129	296509	8.96 ug/L	97
48) 1,2-Dibromoethane	15.30	107	261904	9.61 ug/L	97
49) 1-Chlorohexane	16.09	91	432333	9.76 ug/L	96
50) Chlorobenzene	16.14	112	671414	10.00 ug/L	98
51) 1,1,1,2-Tetrachloroethane	16.28	131	311127	9.47 ug/L	99
52) Ethylbenzene	16.34	91	1132273	9.63 ug/L	95
53) m,p-Xylene	16.53	91	1882856	19.61 ug/L	97
54) o-Xylene	17.23	91	930579	9.90 ug/L	96
55) Styrene	17.25	104	580623	9.68 ug/L	98
56) Bromoform	17.60	173	177515	8.44 ug/L	97
58) Isopropylbenzene	17.88	105	1221533	9.91 ug/L	96
60) Bromobenzene	18.44	156	330994	9.99 ug/L	88
61) 1,1,2,2-Tetrachloroethane	18.40	83	258418	9.35 ug/L	95
62) 1,2,3-Trichloropropane	18.47	110	67844	9.78 ug/L #	79
63) n-Propylbenzene	18.62	91	1488282	9.72 ug/L	99
64) 2-Chlorotoluene	18.77	91	918387	10.07 ug/L	98
65) 4-Chlorotoluene	18.98	91	1023283	9.86 ug/L	100
66) 1,3,5-Trimethylbenzene	18.95	105	1020854	9.92 ug/L	95
67) sec-Butylbenzene	19.93	105	1388554	9.87 ug/L	96
68) 1,3-Dichlorobenzene	20.16	146	608838	9.92 ug/L	95
69) 4-Isopropyltoluene	20.20	119	1130159	10.00 ug/L	97
70) 1,4-Dichlorobenzene	20.31	146	632607	10.05 ug/L	94
71) tert-Butylbenzene	19.54	91	832128	9.82 ug/L	99
72) n-Butylbenzene	20.94	91	1165644	9.70 ug/L	97
73) 1,2-Dichlorobenzene	20.99	146	547634	10.21 ug/L	98
74) 1,2,4-Trimethylbenzene	19.63	105	995720	9.70 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010434.D Vial: 3
Acq On : 10 Sep 1999 2:50 pm Operator: ClaudiaP
Sample : IC285-10,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:35 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

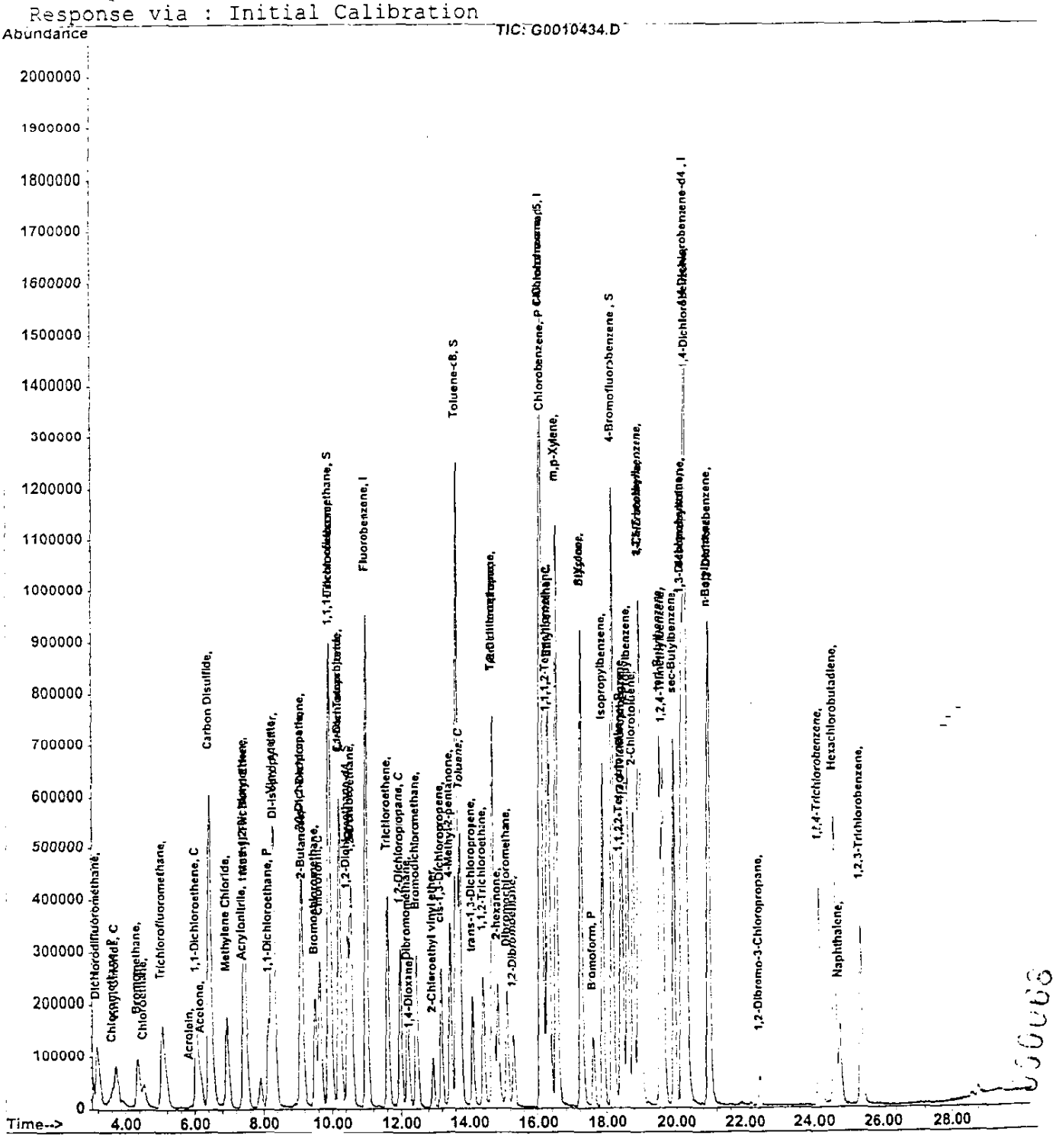
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) 1,2-Dibromo-3-Chloropropan	22.43	75	39917	8.37 ug/L #	82
76) 1,2,4-Trichlorobenzene	24.14	180	403747	9.58 ug/L	92
77) Hexachlorobutadiene	24.56	225	288538	10.57 ug/L	95
78) Naphthalene	24.71	128	427711	9.53 ug/L	99
79) 1,2,3-Trichlorobenzene	25.32	180	354257	10.07 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010434.D Vial: 3
Acq On : 10 Sep 1999 2:50 pm Operator: ClaudiaP
Sample : IC285-10,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:35 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010435.D Vial: 4
Acq On : 10 Sep 1999 3:29 pm Operator: ClaudiaP
Sample : ICC285-20,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:40 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.99	96	2300028	25.00 ug/L	0.00
39) Chlorobenzene-d5	16.09	117	1727821	25.00 ug/L	0.01
57) 1,4 Dichlorobenzene-d4	20.24	152	1086085	25.00 ug/L	0.00
System Monitoring Compounds					
25) Dibromofluoromethane	9.90	113	1173993	48.79	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery =	97.58%	
28) 1,2-Dichloroethane-d4	10.45	65	675313	50.55	0.00
Spiked Amount 50.000	Range 74 - 120		Recovery =	101.10%	
40) Toluene-d8	13.62	98	2252761	49.81	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	99.62%	
59) 4-Bromofluorobenzene	18.15	95	1144115	48.10	-0.02
Spiked Amount 50.000	Range 86 - 115		Recovery =	96.20%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.17	85	930645	32.71 ug/L	100
3) Chloromethane	3.63	50	421578	24.00 ug/L	100
4) Vinyl Chloride	3.72	62	504062	23.90 ug/L	97
5) Bromomethane	4.35	94	446410	23.02 ug/L	96
6) Chloroethane	4.51	64	243444	19.38 ug/L	90
7) Trichlorofluoromethane	5.05	101	1284431	19.60 ug/L	95
8) Acrolein	5.90	56	27774	55.37 ug/L	92
9) 1,1-Dichloroethene	6.03	61	975245	19.30 ug/L	99
10) Acetone	6.21	43	287152	97.31 ug/L	87
11) Carbon Disulfide	6.42	76	7035620	98.47 ug/L	98
12) Methylene Chloride	6.93	49	700899	18.58 ug/L	89
13) trans-1,2-Dichloroethene	7.42	61	996916	19.91 ug/L	98
14) Acrylonitrile	7.37	53	131280	66.62 ug/L	88
15) Methyl Tert Butyl Ether	7.47	73	1017428	19.03 ug/L	98
16) 1,1-Dichloroethane	8.13	63	1097688	20.17 ug/L	97
17) Vinyl acetate	8.25	43	3225572	66.93 ug/L	99
18) Di-isopropyl ether	8.31	45	1871915	18.47 ug/L	85
19) 2,2-Dichloropropane	9.10	77	1004979	20.15 ug/L	97
20) cis-1,2-Dichloroethene	9.10	96	519329	20.02 ug/L	94
21) 2-Butanone	9.16	43	460863	92.03 ug/L	94
22) Bromochloromethane	9.49	128	340778	20.97 ug/L	89
23) Chloroform	9.64	83	1209038	20.08 ug/L	97
24) 1,1,1-Trichloroethane	9.93	97	1102159	19.56 ug/L	93
26) 1,1-Dichloropropene	10.19	75	817878	19.81 ug/L	97
27) Carbon Tetrachloride	10.21	117	997172	19.82 ug/L	99
29) Benzene	10.54	78	1196247	20.06 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010435.D Vial: 4
Acq On : 10 Sep 1999 3:29 pm Operator: ClaudiaP
Sample : ICC285-20,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:40 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,2-Dichloroethane	10.57	62	628290	20.79 ug/L	97
31) Trichloroethene	11.60	95	792265	20.22 ug/L	99
32) 1,2-Dichloropropane	11.98	63	622541	19.81 ug/L	97
33) Dibromomethane	12.18	93	442902	20.22 ug/L	95
34) 1,4-Dioxane	12.25	88	46428	383.66 ug/L	86
35) Bromodichloromethane	12.44	83	1026901	20.04 ug/L	95
36) 2-Chloroethyl vinyl ether	12.91	63	240049	98.32 ug/L	91
37) 4-Methyl-2-pentanone	13.43	43	1497675	90.60 ug/L	98
38) cis-1,3-Dichloropropene	13.17	75	814243	20.44 ug/L	94
41) Toluene	13.74	91	1879363	19.23 ug/L	98
42) trans-1,3-Dichloropropene	14.08	75	625271	19.11 ug/L	95
43) 1,1,2-Trichloroethane	14.41	83	379895	19.84 ug/L	97
44) Tetrachloroethene	14.69	166	940747	20.39 ug/L	95
45) 2-hexanone	14.82	43	1000465	90.56 ug/L	99
46) 1,3-Dichloropropane	14.69	76	691294	19.26 ug/L	96
47) Dibromochloromethane	15.09	129	674417	19.99 ug/L	97
48) 1,2-Dibromoethane	15.30	107	540709	19.47 ug/L	96
49) 1-Chlorohexane	16.08	91	871587	19.30 ug/L	95
50) Chlorobenzene	16.14	112	1366833	19.98 ug/L	98
51) 1,1,1,2-Tetrachloroethane	16.28	131	665284	19.88 ug/L	98
52) Ethylbenzene	16.32	91	2311478	19.29 ug/L	100
53) m,p-Xylene	16.52	91	3785052	38.69 ug/L	99
54) o-Xylene	17.23	91	1873470	19.56 ug/L	97
55) Styrene	17.25	104	1227712	20.09 ug/L	93
56) Bromoform	17.60	173	399374	18.64 ug/L	94
58) Isopropylbenzene	17.88	105	2452265	19.23 ug/L	96
60) Bromobenzene	18.44	156	672960	19.64 ug/L	89
61) 1,1,2,2-Tetrachloroethane	18.40	83	503413	17.61 ug/L	97
62) 1,2,3-Trichloropropane	18.47	110	138298	19.28 ug/L #	88
63) n-Propylbenzene	18.62	91	3047870	19.24 ug/L	97
64) 2-Chlorotoluene	18.78	91	1815676	19.25 ug/L	96
65) 4-Chlorotoluene	18.96	91	2077588	19.36 ug/L	99
66) 1,3,5-Trimethylbenzene	18.93	105	2061993	19.37 ug/L	96
67) sec-Butylbenzene	19.92	105	2735228	18.79 ug/L	97
68) 1,3-Dichlorobenzene	20.14	146	1233838	19.44 ug/L	96
69) 4-Isopropyltoluene	20.18	119	2248814	19.24 ug/L	99
70) 1,4-Dichlorobenzene	20.29	146	1235531	18.98 ug/L	97
71) tert-Butylbenzene	19.52	91	1652864	18.86 ug/L	99
72) n-Butylbenzene	20.94	91	2337381	18.80 ug/L	97
73) 1,2-Dichlorobenzene	20.98	146	1050301	18.93 ug/L	93
74) 1,2,4-Trimethylbenzene	19.61	105	2021617	19.04 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010435.D Vial: 4
Acq On : 10 Sep 1999 3:29 pm Operator: ClaudiaP
Sample : ICC285-20,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:40 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

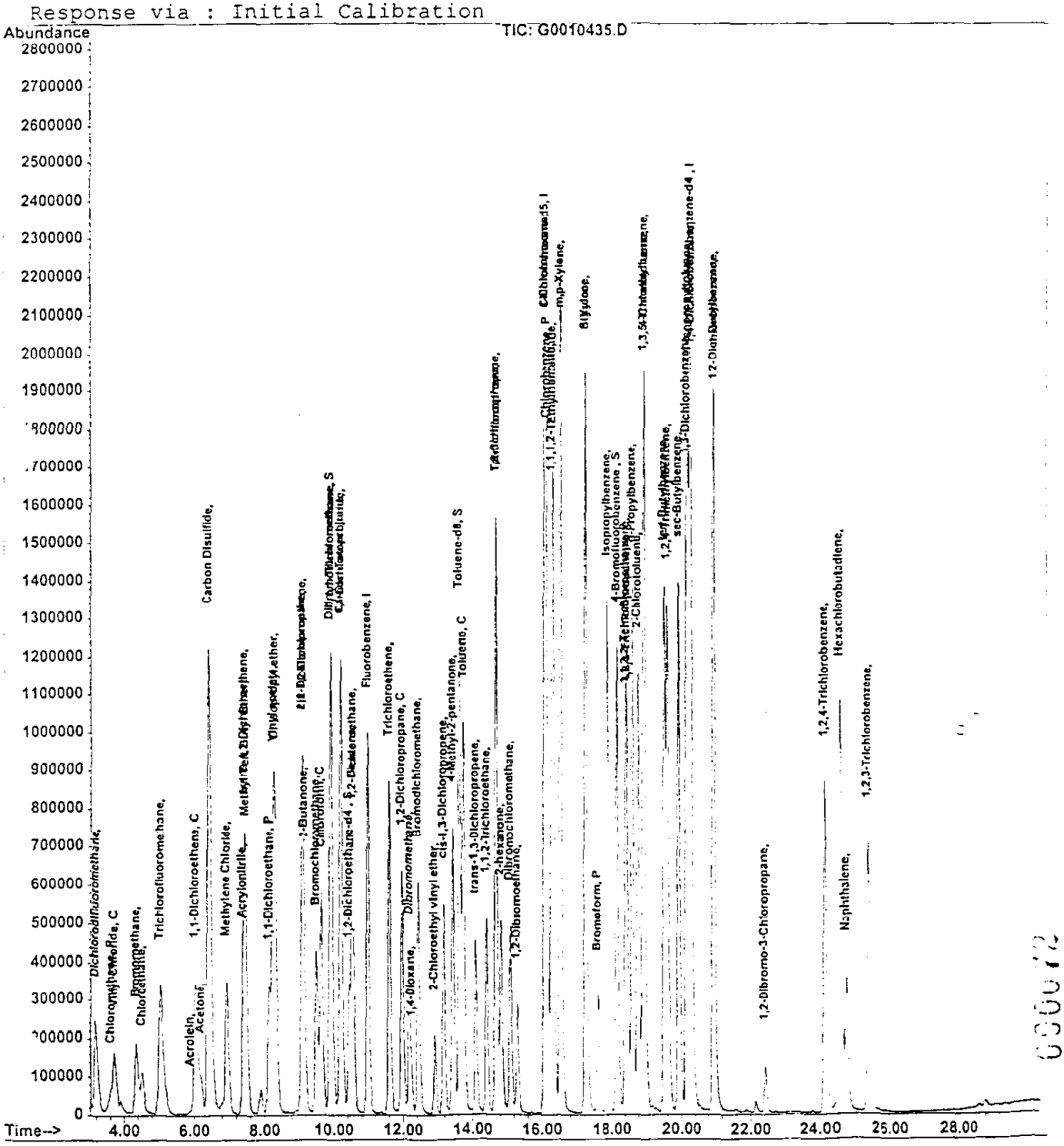
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) 1,2-Dibromo-3-Chloropropan	22.42	75	86151	17.47 ug/L #	82
76) 1,2,4-Trichlorobenzene	24.15	180	865086	19.85 ug/L	95
77) Hexachlorobutadiene	24.55	225	594649	21.06 ug/L	84
78) Naphthalene	24.71	128	926472	19.96 ug/L	100
79) 1,2,3-Trichlorobenzene	25.32	180	738300	20.29 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010435.D Vial: 4
Acq On : 10 Sep 1999 3:29 pm Operator: ClaudiaP
Sample : ICC285-20,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:40 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010436.D Vial: 5
Acq On : 10 Sep 1999 4:08 pm Operator: ClaudiaP
Sample : IC285-35,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:58 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

CK

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.99	96	2290982	25.00	ug/L	0.00
39) Chlorobenzene-d5	16.10	117	1707464	25.00	ug/L	0.01
57) 1,4-Dichlorobenzene-d4	20.27	152	1080892	25.00	ug/L	0.01
System Monitoring Compounds						
25) Dibromofluoromethane	9.91	113	1200574	50.09		0.01
Spiked Amount 50.000	Range 80 - 116		Recovery = 100.18%			
28) 1,2-Dichloroethane-d4	10.45	65	625587	47.01		0.00
Spiked Amount 50.000	Range 74 - 120		Recovery = 94.02%			
40) Toluene-d8	13.63	98	2267665	50.74		0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.48%			
59) 4-Bromofluorobenzene	18.16	95	1171417	49.49		-0.02
Spiked Amount 50.000	Range 86 - 115		Recovery = 98.98%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.20	85	1608571	56.77	ug/L	100
3) Chloromethane	3.65	50	738772	42.22	ug/L	95
4) Vinyl Chloride	3.74	62	876801	41.74	ug/L	99
5) Bromomethane	4.37	94	817575	42.33	ug/L	99
6) Chloroethane	4.53	64	423642	33.85	ug/L	89
7) Trichlorofluoromethane	5.02	101	2248647	34.46	ug/L	98
8) Acrolein	5.89	56	44930m	89.93	ug/L	
9) 1,1-Dichloroethene	6.02	61	1729711	34.36	ug/L	99
10) Acetone	6.23	43	469272	159.65	ug/L	98
11) Carbon Disulfide	6.41	76	12654970	177.82	ug/L	97
12) Methylene Chloride	6.94	49	1215396	32.34	ug/L	93
13) trans-1,2-Dichloroethene	7.42	61	1755195	35.18	ug/L	98
14) Acrylonitrile	7.40	53	238677	121.60	ug/L	92
15) Methyl Tert Butyl Ether	7.47	73	1819438	34.17	ug/L	97
16) 1,1-Dichloroethane	8.15	63	1941467	35.82	ug/L	94
17) Vinyl acetate	8.25	43	8000780	166.68	ug/L	100
18) Di-isopropyl ether	8.32	45	3348513	33.18	ug/L	95
19) 2,2-Dichloropropane	9.10	77	1768291	35.59	ug/L	98
20) cis-1,2-Dichloroethene	9.12	96	900195	34.84	ug/L	93
21) 2-Butanone	9.17	43	784283	157.23	ug/L	92
22) Bromochloromethane	9.50	128	589845	36.45	ug/L	89
23) Chloroform	9.64	83	2163780	36.09	ug/L	98
24) 1,1,1-Trichloroethane	9.94	97	1954793	34.82	ug/L	97
26) 1,1-Dichloropropene	10.20	75	1430966	34.79	ug/L	98
27) Carbon Tetrachloride	10.20	117	1795105	35.82	ug/L	97
29) Benzene	10.54	78	2253407	37.93	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010436.D Vial: 5
Acq On : 10 Sep 1999 4:08 pm Operator: ClaudiaP
ample : IC285-35,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:58 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,2-Dichloroethane	10.57	62	1152493	38.28 ug/L	98
31) Trichloroethene	11.61	95	1327206	34.00 ug/L	98
32) 1,2-Dichloropropane	11.97	63	1097012	35.04 ug/L	96
33) Dibromomethane	12.18	93	778327	35.68 ug/L	96
34) 1,4-Dioxane	12.26	88	85718	711.14 ug/L #	78
35) Bromodichloromethane	12.44	83	1877854	36.78 ug/L	93
36) 2-Chloroethyl vinyl ether	12.92	63	507996	208.90 ug/L	96
37) 4-Methyl-2-pentanone	13.44	43	2664631	161.84 ug/L	99
38) cis-1,3-Dichloropropene	13.17	75	1480954	37.32 ug/L	98
41) Toluene	13.74	91	3328565	34.47 ug/L	99
42) trans-1,3-Dichloropropene	14.10	75	1171911	36.24 ug/L	99
43) 1,1,2-Trichloroethane	14.42	83	674250	35.64 ug/L	97
4) Tetrachloroethene	14.69	166	1639312	35.95 ug/L	95
45) 2-hexanone	14.84	43	1723868	157.90 ug/L	98
46) 1,3-Dichloropropane	14.70	76	1224375	34.52 ug/L	96
47) Dibromochloromethane	15.10	129	1225835	36.76 ug/L	96
48) 1,2-Dibromoethane	15.30	107	967498	35.26 ug/L	94
49) 1-Chlorohexane	16.09	91	1578255	35.37 ug/L	94
50) Chlorobenzene	16.14	112	2366877	35.01 ug/L	99
51) 1,1,1,2-Tetrachloroethane	16.28	131	1202862	36.36 ug/L	92
52) Ethylbenzene	16.32	91	3998829	33.78 ug/L	99
53) m,p-Xylene	16.53	91	6732297	69.64 ug/L	99
54) o-Xylene	17.23	91	3332677	35.21 ug/L	96
55) Styrene	17.25	104	2115890	35.03 ug/L	96
56) Bromoform	17.59	173	755553	35.68 ug/L	98
58) Isopropylbenzene	17.88	105	4349978	34.27 ug/L	98
60) Bromobenzene	18.44	156	1183661	34.71 ug/L	96
61) 1,1,2,2-Tetrachloroethane	18.39	83	950361	33.41 ug/L	99
62) 1,2,3-Trichloropropane	18.48	110	239754	33.58 ug/L #	82
63) n-Propylbenzene	18.62	91	5327976	35.79 ug/L	95
64) 2-Chlorotoluene	18.79	91	3225303	34.37 ug/L	99
65) 4-Chlorotoluene	18.97	91	3680218	34.46 ug/L	100
66) 1,3,5-Trimethylbenzene	18.94	105	3615707	34.12 ug/L	98
67) sec-Butylbenzene	19.94	105	4943400	34.12 ug/L	99
68) 1,3-Dichlorobenzene	20.15	146	2165674	34.28 ug/L	98
69) 4-Isopropyltoluene	20.20	119	3971151	34.13 ug/L	95
70) 1,4-Dichlorobenzene	20.31	146	2229072	34.40 ug/L	97
71) tert-Butylbenzene	19.53	91	2904282	33.30 ug/L	97
72) n-Butylbenzene	20.95	91	4250360	34.35 ug/L	98
73) 1,2-Dichlorobenzene	20.99	146	1880721	34.06 ug/L	95
74) 1,2,4-Trimethylbenzene	19.62	105	3552772	33.63 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010436.D Vial: 5
Acq On : 10 Sep 1999 4:08 pm Operator: ClaudiaP
Sample : IC285-35,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:58 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

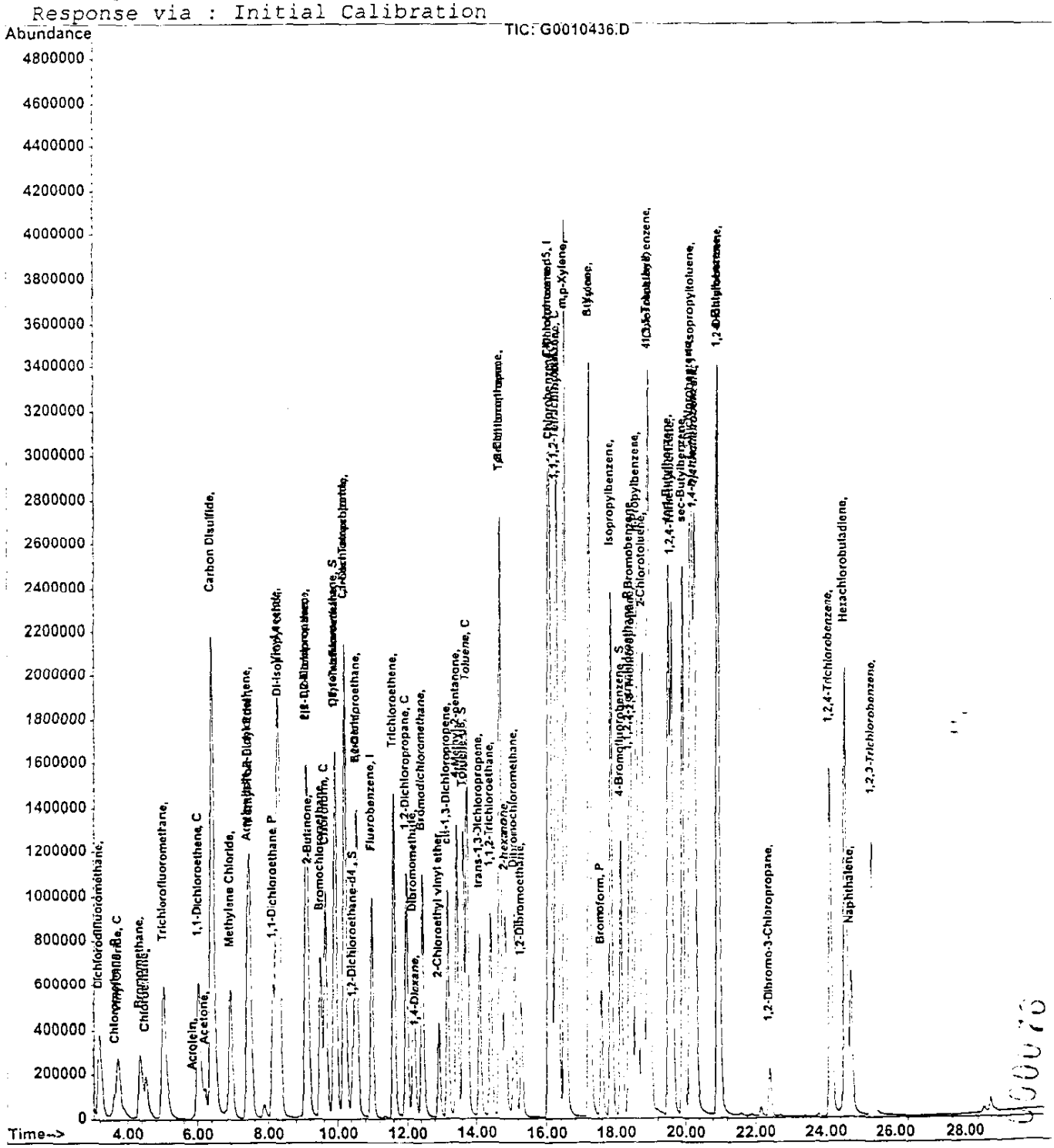
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) 1,2-Dibromo-3-Chloropropan	22.41	75	165856	33.80 ug/L #	84
76) 1,2,4-Trichlorobenzene	24.15	180	1524958	35.15 ug/L	96
77) Hexachlorobutadiene	24.55	225	1102221	39.23 ug/L	96
78) Naphthalene	24.71	128	1677239	36.32 ug/L	99
79) 1,2,3-Trichlorobenzene	25.33	180	1312583	36.24 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010436.D Vial: 5
Acq On : 10 Sep 1999 4:08 pm Operator: ClaudiaP
Sample : IC285-35,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:58 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010437.D Vial: 6
Acq On : 10 Sep 1999 4:47 pm Operator: ClaudiaP
Sample : IC285-50,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:41 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.99	96	2272240	25.00 ug/L	0.00
39) Chlorobenzene-d5	16.09	117	1711492	25.00 ug/L	0.00
57) 1,4-Dichlorobenzene-d4	20.25	152	1070056	25.00 ug/L	0.00
System Monitoring Compounds					
25) Dibromofluoromethane	9.90	113	1203105	50.61	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 101.22%		
28) 1,2-Dichloroethane-d4	10.45	65	662153	50.17	0.00
Spiked Amount 50.000	Range 74 - 120		Recovery = 100.34%		
40) Toluene-d8	13.63	98	2261177	50.47	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.94%		
59) 4-Bromofluorobenzene	18.17	95	1165953	49.76	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.52%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.18	85	2207591	78.55 ug/L	97
3) Chloromethane	3.64	50	1022199	58.90 ug/L	95
4) Vinyl Chloride	3.73	62	1242115	59.62 ug/L	94
5) Bromomethane	4.35	94	1153779	60.23 ug/L	92
6) Chloroethane	4.51	64	587883	47.36 ug/L	94
7) Trichlorofluoromethane	4.99	101	3041107	46.98 ug/L	99
8) Acrolein	5.89	56	66002	133.20 ug/L	85
9) 1,1-Dichloroethene	6.01	61	2417908	48.42 ug/L	97
10) Acetone	6.24	43	633716	217.37 ug/L	95
11) Carbon Disulfide	6.39	76	17817432	252.42 ug/L	96
12) Methylene Chloride	6.92	49	1701001	45.64 ug/L	91
13) trans-1,2-Dichloroethene	7.41	61	2456808	49.65 ug/L	98
14) Acrylonitrile	7.41	53	318141	163.43 ug/L	98
15) Methyl Tert Butyl Ether	7.50	73	2573471	48.72 ug/L	96
16) 1,1-Dichloroethane	8.14	63	2750028	51.16 ug/L	94
17) Vinyl acetate	8.26	43	11292866	237.20 ug/L	99
18) Di-isopropyl ether	8.32	45	4702914	46.98 ug/L	100
19) 2,2-Dichloropropane	9.10	77	2462465	49.97 ug/L	99
20) cis-1,2-Dichloroethene	9.11	96	1265586	49.38 ug/L	95
21) 2-Butanone	9.17	43	1106823	223.72 ug/L	100
22) Bromochloromethane	9.50	128	839486	52.30 ug/L	91
23) Chloroform	9.64	83	3014337	50.69 ug/L	94
24) 1,1,1-Trichloroethane	9.92	97	2703955	48.56 ug/L	99
26) 1,1-Dichloropropene	10.19	75	2009372	49.26 ug/L	98
27) Carbon Tetrachloride	10.21	117	2513806	50.57 ug/L	99
29) Benzene	10.53	78	3352201	56.89 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010437.D Vial: 6
Acq On : 10 Sep 1999 4:47 pm Operator: ClaudiaP
Sample : IC285-50,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:41 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30)	1,2-Dichloroethane	10.56	62	1653498	55.37 ug/L	99
31)	Trichloroethene	11.60	95	1903255	49.16 ug/L	98
32)	1,2-Dichloropropane	11.97	63	1562907	50.34 ug/L	97
33)	Dibromomethane	12.18	93	1095402	50.62 ug/L	93
34)	1,4-Dioxane	12.26	88	119150	996.66 ug/L #	82
35)	Bromodichloromethane	12.44	83	2651912	52.37 ug/L	99
36)	2-Chloroethyl vinyl ether	12.92	63	672941	279.01 ug/L	96
37)	4-Methyl-2-pentanone	13.44	43	3738691	228.94 ug/L	99
38)	cis-1,3-Dichloropropene	13.18	75	2085731	52.99 ug/L	98
41)	Toluene	13.74	91	4595930	47.48 ug/L	92
42)	trans-1,3-Dichloropropene	14.10	75	1677540	51.75 ug/L	95
43)	1,1,2-Trichloroethane	14.41	83	937363	49.43 ug/L	96
44)	Tetrachloroethene	14.68	166	2264069	49.53 ug/L	96
45)	2-hexanone	14.83	43	2437866	222.78 ug/L	100
46)	1,3-Dichloropropane	14.69	76	1686359	47.43 ug/L	97
47)	Dibromochloromethane	15.11	129	1745354	52.22 ug/L	98
48)	1,2-Dibromoethane	15.30	107	1365597	49.65 ug/L	92
49)	1-Chlorohexane	16.08	91	2133591	47.70 ug/L	96
50)	Chlorobenzene	16.14	112	3372173	49.76 ug/L	98
51)	1,1,1,2-Tetrachloroethane	16.29	131	1731496	52.22 ug/L	94
52)	Ethylbenzene	16.33	91	5782261	48.73 ug/L	98
53)	m,p-Xylene	16.54	91	9504282	98.08 ug/L	93
54)	o-Xylene	17.23	91	4636695	48.87 ug/L	97
55)	Styrene	17.26	104	3068148	50.68 ug/L	95
56)	Bromoform	17.60	173	1091764	51.44 ug/L	95
58)	Isopropylbenzene	17.89	105	6204714	49.38 ug/L	97
60)	Bromobenzene	18.45	156	1696954	50.27 ug/L	91
61)	1,1,2,2-Tetrachloroethane	18.40	83	1340745	47.61 ug/L	97
62)	1,2,3-Trichloropropane	18.48	110	338863	47.95 ug/L #	83
63)	n-Propylbenzene	18.62	91	7549836	48.37 ug/L	99
64)	2-Chlorotoluene	18.78	91	4501309	48.45 ug/L	97
65)	4-Chlorotoluene	18.97	91	5132519	48.54 ug/L	100
66)	1,3,5-Trimethylbenzene	18.93	105	5106595	48.68 ug/L	98
67)	sec-Butylbenzene	19.93	105	7173954	50.02 ug/L	99
68)	1,3-Dichlorobenzene	20.13	146	3147895	50.34 ug/L	95
69)	4-Isopropyltoluene	20.19	119	5538779	48.09 ug/L	100
70)	1,4-Dichlorobenzene	20.30	146	3173459	49.48 ug/L	94
71)	tert-Butylbenzene	19.53	91	4195884	48.59 ug/L	97
72)	n-Butylbenzene	20.95	91	6100159	49.81 ug/L	99
73)	1,2-Dichlorobenzene	20.99	146	2644157	48.38 ug/L	94
74)	1,2,4-Trimethylbenzene	19.62	105	4980506	47.62 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\091099\G0010437.D Vial: 6
Acq On : 10 Sep 1999 4:47 pm Operator: ClaudiaP
ample : IC285-50,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:41 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Wed Aug 18 14:20:42 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

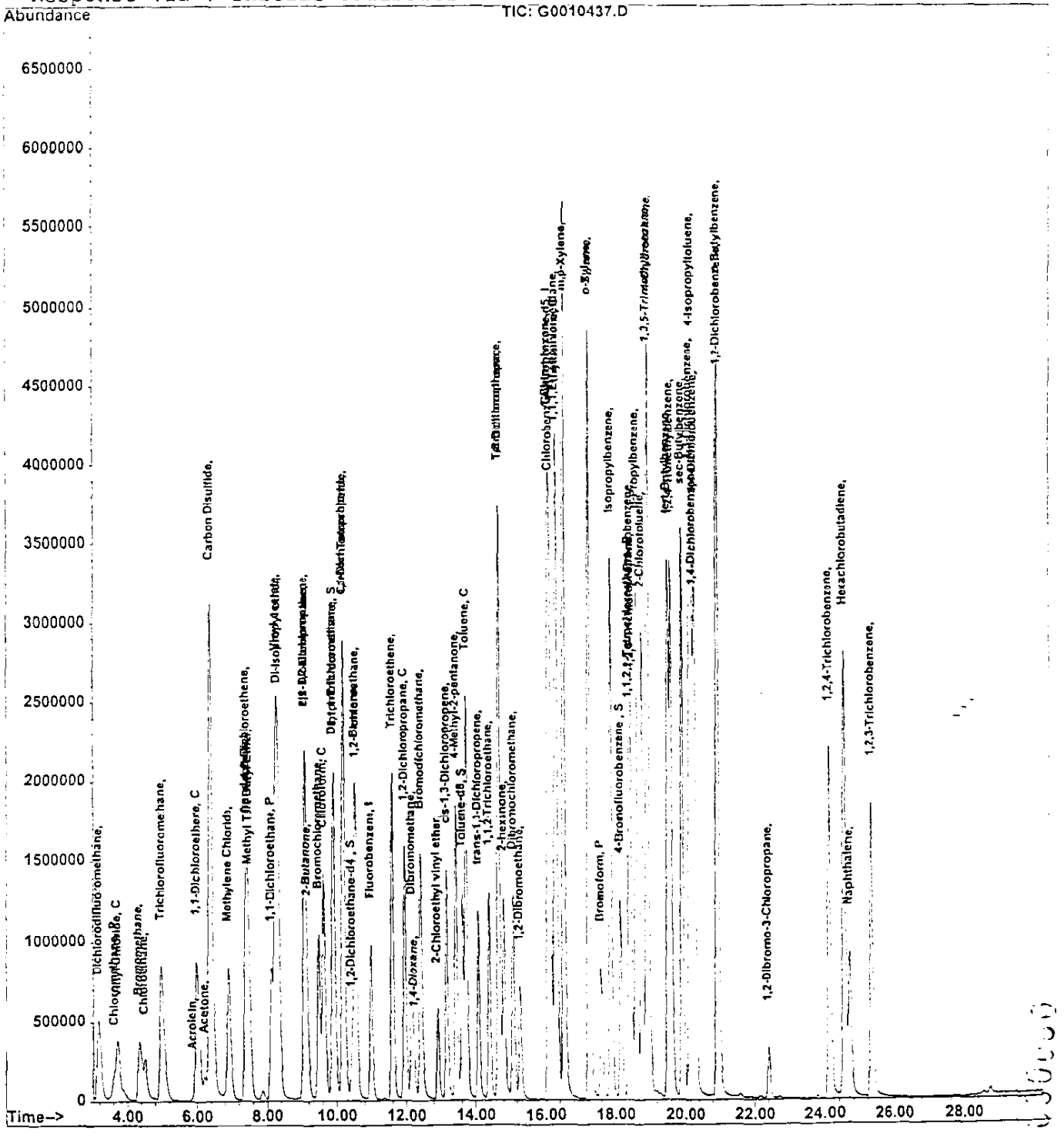
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	1,2-Dibromo-3-Chloropropan	22.42	75	234505	48.27 ug/L #	87
76)	1,2,4-Trichlorobenzene	24.16	180	2209834	51.46 ug/L	94
77)	Hexachlorobutadiene	24.56	225	1468856	52.80 ug/L	87
78)	Naphthalene	24.71	128	2370989	51.86 ug/L	99
79)	1,2,3-Trichlorobenzene	25.33	180	1920717	53.56 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\091099\G0010437.D Vial: 6
Acq On : 10 Sep 1999 4:47 pm Operator: ClaudiaP
Sample : IC285-50,10ml Inst : MSVOA1
Misc : ms374,vg285,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:41 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



CONTINUING CALIBRATION SUMMARY

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\092799\G0010598.D Vial: 7
Acq On : 27 Sep 1999 8:15 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	88	-0.02
2		Dichlorodifluoromethane	0.502	0.421	16.1	73	-0.02
3	P	Chloromethane	0.236	0.226	4.2	87	-0.04
4	C	Vinyl Chloride	0.265	0.276	-4.2	89	-0.02
5		Bromomethane	0.245	0.230	6.1	84	-0.03
6		Chloroethane	0.140	0.145	-3.6	97	-0.04
7		Trichlorofluoromethane	0.689	0.724	-5.1	91	-0.05
8		Acrolein	0.003	0.002	33.3#	68	-0.07
9	C	1,1-Dichloroethene	0.537	0.532	0.9	89	-0.03
10		Acetone	0.031	0.029	6.5	81	-0.05
11		Carbon Disulfide	0.762	0.693	9.1	80	-0.03
12		Methylene Chloride	0.388	0.370	4.6	86	-0.04
[illegible]		trans-1,2-Dichloroethene	0.539	0.531	1.5	86	-0.04
[illegible]		Acrylonitrile	0.015	0.013	13.3	82	-0.03
15		Methyl Tert Butyl Ether	0.566	0.504	11.0	80	-0.04
16	P	1,1-Dichloroethane	0.603	0.579	4.0	86	-0.03
17		Vinyl acetate	0.483	0.460	4.8	0#	-0.04
18		Di-isopropyl ether	1.053	1.004	4.7	87	-0.03
19		2,2-Dichloropropane	0.546	0.556	-1.8	90	-0.03
20		cis-1,2-Dichloroethene	0.285	0.258	9.5	81	-0.02
21		2-Butanone	0.051	0.045	11.8	79	-0.03
22		Bromochloromethane	0.181	0.171	5.5	82	-0.01
23	C	Chloroform	0.661	0.604	8.6	81	-0.02
24		1,1,1-Trichloroethane	0.597	0.553	7.4	81	-0.01
25	S	Dibromofluoromethane	0.259	0.241	6.9	83	-0.02
26		1,1-Dichloropropene	0.441	0.433	1.8	86	-0.02
27		Carbon Tetrachloride	0.544	0.473	13.1	77	-0.03
28	S	1,2-Dichloroethane-d4	0.143	0.145	-1.4	87	-0.02
29		Benzene	0.724	0.712	1.7	97	-0.03
30		1,2-Dichloroethane	0.366	0.331	9.6	85	-0.03
31		Trichloroethene	0.418	0.379	9.3	78	-0.02
32	C	1,2-Dichloropropane	0.339	0.322	5.0	84	-0.03
33		Dibromomethane	0.236	0.208	11.9	76	-0.03
34		1,4-Dioxane	0.001	0.001	0.0	75	-0.03
35		Bromodichloromethane	0.560	0.511	8.8	81	-0.02
36		2-Chloroethyl vinyl ether	0.027	0.027	0.0	92	0.00
37		4-Methyl-2-pentanone	0.159	0.147	7.5	80	-0.02
38		cis-1,3-Dichloropropene	0.443	0.421	5.0	84	-0.02
39	I	Chlorobenzene-d5	1.000	1.000	0.0	84	-0.03
40	S	Toluene-d8	0.653	0.675	-3.4	87	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\092799\G0010598.D Vial: 7
Acq On : 27 Sep 1999 8:15 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
isc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	C	Toluene	1.369	1.347	1.6	83	-0.02
42		trans-1,3-Dichloropropene	0.458	0.458	0.0	85	-0.02
43		1,1,2-Trichloroethane	0.271	0.253	6.6	77	-0.03
44		Tetrachloroethene	0.677	0.634	6.4	78	-0.04
45		2-hexanone	0.142	0.138	2.8	80	-0.03
46		1,3-Dichloropropane	0.502	0.475	5.4	80	-0.02
47		Dibromochloromethane	0.476	0.448	5.9	77	-0.02
48		1,2-Dibromoethane	0.393	0.356	9.4	76	-0.03
49		1-Chlorohexane	0.639	0.673	-5.3	90	-0.02
50	P	Chlorobenzene	0.998	0.939	5.9	80	-0.03
51		1,1,1,2-Tetrachloroethane	0.487	0.451	7.4	79	-0.03
52	C	Ethylbenzene	1.696	1.626	4.1	82	-0.02
5[illegible]		m,p-Xylene	1.387	1.321	4.8	81	-0.02
[illegible]		o-Xylene	1.365	1.315	3.7	81	-0.03
55		Styrene	0.851	0.848	0.4	80	-0.04
56	P	Bromoform	0.288	0.253	12.2	73	-0.03
57	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	-0.02
58		Isopropylbenzene	2.895	2.920	-0.9	82	-0.03
59	S	4-Bromofluorobenzene	0.540	0.552	-2.2	83	-0.02
60		Bromobenzene	0.788	0.746	5.3	77	-0.03
61	P	1,1,2,2-Tetrachloroethane	0.606	0.585	3.5	80	-0.04
62		1,2,3-Trichloropropane	0.155	0.150	3.2	75	-0.03
63		n-Propylbenzene	3.578	3.511	1.9	80	-0.03
64		2-Chlorotoluene	2.169	2.099	3.2	80	-0.02
65		4-Chlorotoluene	2.458	2.318	5.7	77	-0.02
66		1,3,5-Trimethylbenzene	2.422	2.411	0.5	81	-0.04
67		sec-Butylbenzene	3.309	3.319	-0.3	84	-0.02
68		1,3-Dichlorobenzene	1.456	1.401	3.8	78	-0.03
69		4-Isopropyltoluene	2.659	2.625	1.3	81	-0.03
70		1,4-Dichlorobenzene	1.514	1.412	6.7	79	-0.02
71		tert-Butylbenzene	1.953	1.884	3.5	79	-0.03
72		n-Butylbenzene	2.811	2.788	0.8	82	-0.04
73		1,2-Dichlorobenzene	1.266	1.206	4.7	79	-0.03
74		1,2,4-Trimethylbenzene	2.389	2.394	-0.2	82	-0.03
75		1,2-Dibromo-3-Chloropropane	0.102	0.093	8.8	75	-0.05
76		1,2,4-Trichlorobenzene	0.970	0.882	9.1	70	-0.05
77		Hexachlorobutadiene	0.709	0.598	15.7	69	-0.04
[illegible]		Naphthalene	1.051	0.945	10.1	70	-0.05
7[illegible]		1,2,3-Trichlorobenzene	0.834	0.770	7.7	72	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092799\G0010598.D Vial: 7
Acq On : 27 Sep 1999 8:15 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 27 8:56 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

CP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.97	96	2028454	25.00 ug/L	-0.02
39) Chlorobenzene-d5	16.06	117	1450262	25.00 ug/L	-0.03
57) 1,4-Dichlorobenzene-d4	20.22	152	863171	25.00 ug/L	-0.02
System Monitoring Compounds					
25) Dibromofluoromethane	9.88	113	978546	46.51	-0.02
Spiked Amount 50.000	Range 80 - 116		Recovery = 93.02%		
28) 1,2-Dichloroethane-d4	10.43	65	586667	50.69	-0.02
Spiked Amount 50.000	Range 74 - 120		Recovery = 101.38%		
40) Toluene-d8	13.60	98	1956756	51.62	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.24%		
59) 4-Bromofluorobenzene	18.13	95	953641	51.12	-0.02
Spiked Amount 50.000	Range 86 - 115		Recovery = 102.24%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.15	85	682412	16.75 ug/L	99
3) Chloromethane	3.59	50	366731	19.17 ug/L	98
4) Vinyl Chloride	3.70	62	448531	20.84 ug/L	95
5) Bromomethane	4.32	94	373323	18.80 ug/L	93
6) Chloroethane	4.47	64	236026	20.83 ug/L	92
7) Trichlorofluoromethane	5.00	101	1174580	21.01 ug/L	98
8) Acrolein	5.83	56	18952m	78.57 ug/L	
9) 1,1-Dichloroethene	6.00	61	863979	19.85 ug/L	95
10) Acetone	6.16	43	231395	92.42 ug/L	98
11) Carbon Disulfide	6.39	76	5623860	90.96 ug/L	98
12) Methylene Chloride	6.89	49	600469	19.06 ug/L	96
13) trans-1,2-Dichloroethene	7.38	61	861763	19.71 ug/L	95
14) Acrylonitrile	7.34	53	108055	91.84 ug/L	94
15) Methyl Tert Butyl Ether	7.43	73	817938	17.81 ug/L	97
16) 1,1-Dichloroethane	8.10	63	939104	19.18 ug/L	96
17) Vinyl acetate	8.21	43	3735951	95.28 ug/L	99
18) Di-isopropyl ether	8.28	45	1628461	19.07 ug/L	94
19) 2,2-Dichloropropane	9.07	77	902789	20.38 ug/L	95
20) cis-1,2-Dichloroethene	9.08	96	418824	18.11 ug/L	97
21) 2-Butanone	9.13	43	366053	88.55 ug/L	98
22) Bromochloromethane	9.48	128	277975	18.89 ug/L	94
23) Chloroform	9.62	83	980803	18.29 ug/L	97
24) 1,1,1-Trichloroethane	9.91	97	896923	18.52 ug/L	92
26) 1,1-Dichloropropene	10.17	75	702501	19.65 ug/L	96
27) Carbon Tetrachloride	10.18	117	767797	17.40 ug/L	97
29) Benzene	10.51	78	1155329	19.66 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092799\G0010598.D Vial: 7
Acq On : 27 Sep 1999 8:15 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 27 8:56 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30)	1,2-Dichloroethane	10.54	62	536441	18.06 ug/L	97
31)	Trichloroethene	11.58	95	615278	18.14 ug/L	97
32)	1,2-Dichloropropane	11.95	63	523020	19.00 ug/L	96
33)	Dibromomethane	12.15	93	337798	17.62 ug/L	92
34)	1,4-Dioxane	12.22	88	35011	342.88 ug/L	93
35)	Bromodichloromethane	12.42	83	829726	18.27 ug/L	98
36)	2-Chloroethyl vinyl ether	12.90	63	221362	95.94 ug/L	96
37)	4-Methyl-2-pentanone	13.41	43	1190686	92.19 ug/L	97
38)	cis-1,3-Dichloropropene	13.15	75	683190	19.00 ug/L	98
41)	Toluene	13.72	91	1562661	19.68 ug/L	100
42)	trans-1,3-Dichloropropene	14.06	75	531675	20.00 ug/L	98
43)	1,1,2-Trichloroethane	14.38	83	293580	18.65 ug/L	97
44)	Tetrachloroethene	14.65	166	735692	18.74 ug/L	95
45)	2-hexanone	14.79	43	798388	97.13 ug/L	97
46)	1,3-Dichloropropane	14.67	76	550877	18.91 ug/L	99
47)	Dibromochloromethane	15.07	129	519628	18.80 ug/L	92
48)	1,2-Dibromoethane	15.27	107	412928	18.12 ug/L	94
49)	1-Chlorohexane	16.05	91	780877	21.05 ug/L	98
50)	Chlorobenzene	16.11	112	1088904	18.81 ug/L	99
51)	1,1,1,2-Tetrachloroethane	16.25	131	523677	18.53 ug/L	96
52)	Ethylbenzene	16.30	91	1886028	19.17 ug/L	98
53)	m,p-Xylene	16.50	91	3065916	38.10 ug/L	97
54)	o-Xylene	17.20	91	1525912	19.28 ug/L	99
55)	Styrene	17.21	104	984320	19.95 ug/L	87
56)	Bromoform	17.57	173	293511	17.59 ug/L	96
58)	Isopropylbenzene	17.85	105	2016249	20.17 ug/L	98
60)	Bromobenzene	18.41	156	514846	18.93 ug/L	90
61)	1,1,2,2-Tetrachloroethane	18.36	83	403973	19.30 ug/L	96
62)	1,2,3-Trichloropropane	18.44	110	103495	19.29 ug/L	90
63)	n-Propylbenzene	18.59	91	2424343	19.62 ug/L	99
64)	2-Chlorotoluene	18.76	91	1449124	19.35 ug/L	93
65)	4-Chlorotoluene	18.94	91	1600391	18.86 ug/L	98
66)	1,3,5-Trimethylbenzene	18.89	105	1664650	19.91 ug/L	93
67)	sec-Butylbenzene	19.90	105	2291549	20.06 ug/L	97
68)	1,3-Dichlorobenzene	20.11	146	967594	19.24 ug/L	98
69)	4-Isopropyltoluene	20.15	119	1812890	19.75 ug/L	97
70)	1,4-Dichlorobenzene	20.27	146	975062	18.66 ug/L	96
71)	tert-Butylbenzene	19.49	91	1301098	19.30 ug/L	96
72)	n-Butylbenzene	20.90	91	1925334	19.84 ug/L	95
73)	1,2-Dichlorobenzene	20.95	146	832780	19.05 ug/L	93
74)	1,2,4-Trimethylbenzene	19.58	105	1652978	20.04 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\092799\G0010598.D Vial: 7
Acq On : 27 Sep 1999 8:15 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 27 8:56 1999 Quant Results File: 8260LL.RES

Quant Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration
DataAcq Meth : 8260LL

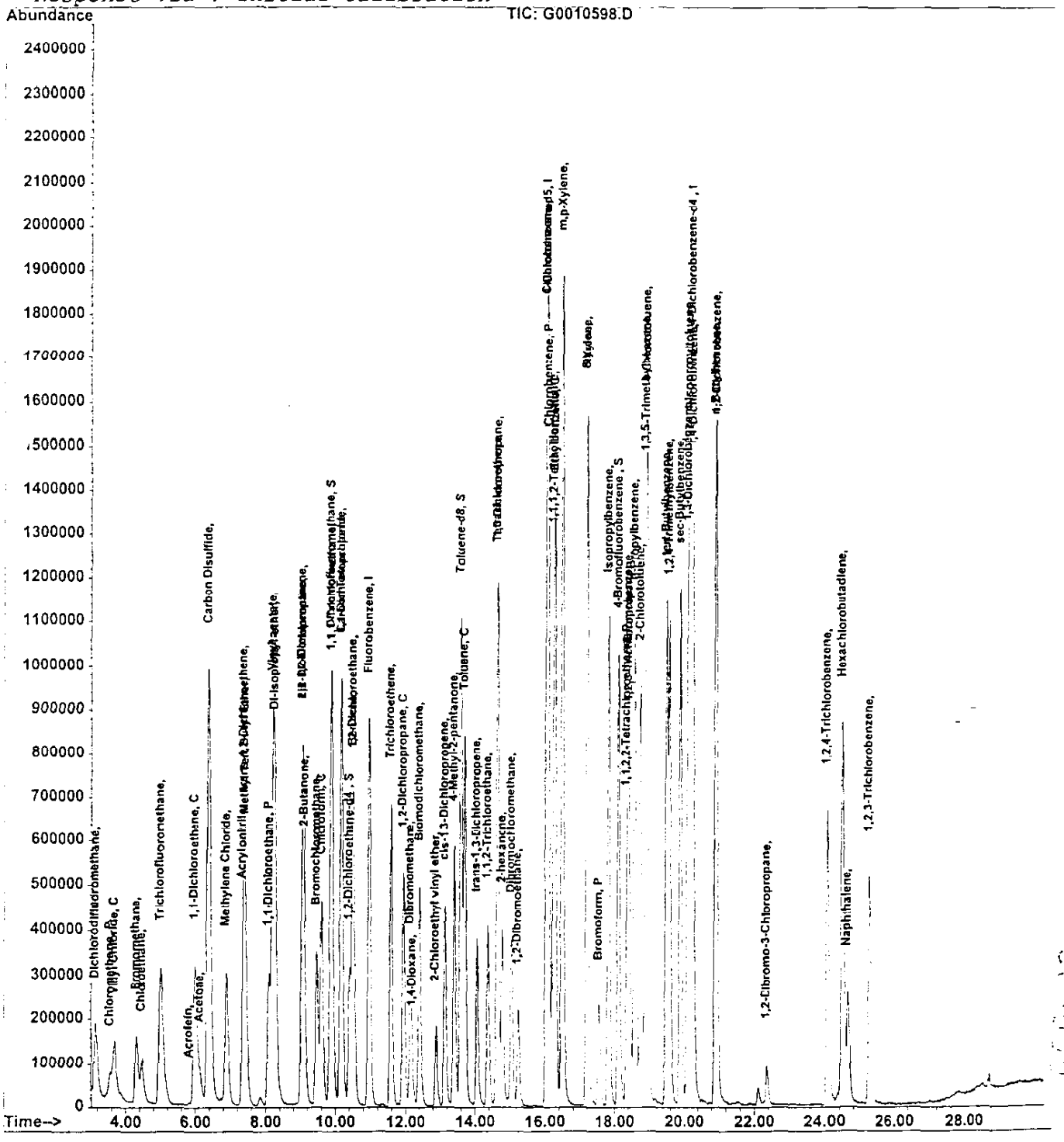
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	1,2-Dibromo-3-Chloropropan	22.37	75	64482	18.31 ug/L	93
76)	1,2,4-Trichlorobenzene	24.10	180	609248	18.20 ug/L	96
77)	Hexachlorobutadiene	24.51	225	413229	16.87 ug/L	93
78)	Naphthalene	24.66	128	652478	17.98 ug/L	98
79)	1,2,3-Trichlorobenzene	25.27	180	531533	18.47 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\092799\G0010598.D Vial: 7
Acq On : 27 Sep 1999 8:15 am Operator: ClaudiaP
Sample : CC285-20 Inst : MSVOA1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 27 8:56 1999 Quant Results File: 8260LL.RES

Method : C:\HPCHEM\1\METHODS\8260LL.M (RTE Integrator)
Title : SW-846 Method 8260B & EPA 624 (low level)
Last Update : Mon Sep 13 10:21:19 1999
Response via : Initial Calibration



INTERNAL STANDARD/ RT SUMMARY

Volatile Internal Standard Area Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Check Std:	VG290-CC285	**Injection Date:**	09/27/99
Lab File ID:	G0010598.D	**Injection Time:**	08:15
Instrument ID:	GCMSG		

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	2028454	10.97	1450262	16.06	863171	20.22
Upper Limit [a]	4056908	11.47	2900524	16.56	1726342	20.72
Lower Limit [b]	1014227	10.47	725131	15.56	431586	19.72

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VG290-MB	2061386	10.96	1508964	16.07	862979	20.21
VG289-MB	2061386	10.96	1508964	16.07	862979	20.21
F4941-1	2117940	10.97	1465605	16.06	861361	20.22
ZZZZZZ	2105792	10.96	1514956	16.05	883728	20.20
F4937-2	2074245	10.95	1466694	16.05	854852	20.21
ZZZZZZ	2066221	10.97	1482745	16.06	869507	20.21
ZZZZZZ	2078398	10.96	1479246	16.06	871409	20.22
ZZZZZZ	2064674	10.96	1491006	16.06	838911	20.21
ZZZZZZ	2060677	10.95	1456917	16.06	838456	20.22
ZZZZZZ	2003472	10.96	1428800	16.04	839506	20.22
ZZZZZZ	2006263	10.96	1461297	16.05	848826	20.21
ZZZZZZ	2002445	10.95	1417886	16.05	831117	20.22
ZZZZZZ	2019776	10.95	1480056	16.04	843784	20.21
F4937-2DUP	2003812	10.96	1474975	16.06	830992	20.21
F4937-2MS	1954159	10.96	1414373	16.06	855610	20.23
F4937-2MSD	2002684	10.95	1440271	16.07	876411	20.23
VG290-BS	2041177	10.96	1442495	16.06	882449	20.23

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of internal standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of internal standard area; Retention time -0.5 minutes.

GC/MS QA-QC Check Report

une File : C:\HPCHEM\1\DATA\092799\G0010597.D
une Time : 27 Sep 1999 8:00 am

a Calibration File : C:\HPCHEM\1\DATA\092799\G0010598.D

						2028450	1450260	863171
ile	Sample	Surrogate Recovery %				Internal Standard Responses		
0010598.D	CC285-20	93	101	103	102	2028454	1450262	863171
0010599.D	MB	94	98	103	103	2061386	1508964	862979
0010600.D	F4941-1,	91	77	109	104	2117940	1465605	861361
0010601.D	F4937-1,	92	101	103	103	2105792	1514956	883728
0010602.D	F4937-2,	92	89	106	107	2074245	1466694	854852
0010603.D	F4937-3,	93	88	106	103	2066221	1482745	869507
0010604.D	F4937-4,	93	99	105	103	2078398	1479246	871409
0010605.D	F4937-5,	94	98	105	107	2064674	1491006	838911
0010606.D	F4937-6,	94	98	106	107	2060677	1456917	838456
0010607.D	F4937-7,	92	100	104	106	2058497	1465241	841748
0010608.D	F4948-1,	95	99	106	104	2003472	1428800	839506
0010609.D	F4948-2,	103	98	103	105	2006263	1461297	848826
0010610.D	F4948-3,	92	97	106	105	2002445	1417886	831117
0010611.D	F4948-4,	94	95	104	105	2019776	1480056	843784
0010612.D	F4937-2D	94	99	101	104	2003812	1474975	830992
0010613.D	F4937-2m	97	109	106	105	1954159	1414373	855610
0010614.D	F4937-2m	96	97	105	102	2002684	1440271	876411
0010615.D	BS,10ml	96	97	107	102	2041177	1442495	882449

t - fails 12hr time check * - fails criteria

Created: Tue Sep 28 08:38:58 1999 MSVOA1

SEQUENCE LOG SUMMARY

GC/MS Analysis Log

Date: 9-27-99 Analyst's Signature: Claudia J. Parrish

Analysis Method: 624/8260 Column: DB 624 Detector: HP5970MSD

Method File: 8260.L Instrument: G Calibration Date: 9-10-99

Data File	Sample ID	Sample Amount	Matrix	PH	ALS #	Dil.	Comments
G0010597	BFB	2 µl					V1178
598	CC-20	10 ml	W	7	7	1	20µl V1174, V1189, V1159
599	MB			7	8		10µl V1186 ND
600	F4941-1			1	9		↘ MS380, VG259
601	F4937-1			1.5	10		ND MS381, VG290
602	-2			1	11		↘
603	-3			1.5	12		ND
604	-4			1	13		↘
605	-5			1	14		ND
606	-6			1	15		ND
607	-7			1	16		ND
608	F4948-1			7	1		pH! ↘
609	-2			7	2		↘
610	-3			7	3		ND
611	-4			7	4		ND
612	F4937-2DUP			7	5		↘
613	F4937-2 MS			1	6		50µl V1149, V1151, V1191
614	MSD			1	7		
615	BS	↓	↓	7	8	↓	

CP

Note:

Matrix: Designate W for water, S for soil, O for Oil, A for air, SO for solid, L for non-aqueous liquid.

Sample amount: Initial sample weight (g) or volume (ml or cc or ul).

Sequence Name: C:\HPCHEM\1\SEQUENCE\092799.S
Comment:
Operator: ClaudiaP
Data Path: C:\HPCHEM\1\DATA\092799\
Pre-Seq Cmd:
Post-Seq Cmd:

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	BFB	100	G0010597	BFB	BFB tune
2	DailyCal	7	G0010598	8260LL	CC285-20
3	Blank	8	G0010599	8260LL	MB
4	Sample	9	G0010600	8260LL	F4941-1,10ml
5	Sample	10	G0010601	8260LL	F4937-1,10ml
6	Sample	11	G0010602	8260LL	F4937-2,10ml
7	Sample	12	G0010603	8260LL	F4937-3,10ml
8	Sample	13	G0010604	8260LL	F4937-4,10ml
9	Sample	14	G0010605	8260LL	F4937-5,10ml
10	Sample	15	G0010606	8260LL	F4937-6,10ml
11	Sample	16	G0010607	8260LL	F4937-7,10ml
12	Sample	1	G0010608	8260LL	F4948-1,10ml
13	Sample	2	G0010609	8260LL	F4948-2,10ml
14	Sample	3	G0010610	8260LL	F4948-3,10ml
15	Sample	4	G0010611	8260LL	F4948-4,10ml
16	Duplicate	5	G0010612	8260LL	F4937-2Dup,10ml
17	Spike	6	G0010613	8260LL	F4937-2ms,10ml
18	Duplicate	7	G0010614	8260LL	F4937-2msd,10ml
19	Spike	8	G0010615	8260LL	BS,10ml

GC/MS Analysis Log

Date: 9-10-99 Analyst's Signature: Claudia J. Parrish

Analysis Method: 624/8260 Column: DB624 Detector: HP5970MSD

Method File: 826OLL Instrument: G Calibration Date: ~~8-18-99~~ 9-10-99 CP

Data File	Sample ID	Sample Amount	Matrix	PH	ALS #	Dil.	Comments
G0010431	BFB	2 µl					V1128
10432	CC-20	10 ml	W	7	15		
10433	MB	10 ml			~~16~~		
10434	F4864-4	5 ml			1	2	
10435							
10436							
G0010431	BFB	2 µl					V1128
10432	IC285-1	10 ml	W	7	1	1	10 µl V1126, V1169, V1159 → 100 ml
10433	-5				2		5 µl
10434	-10				3		10 µl
10435	-20				4		20 µl
10436	-35				5		35 µl
10437	-50				6		50 µl
10438	ICV-20				7		20 µl V1149, V1169, V1151
10439	MB				8		10 µl V1146

CP

Note:

Matrix: Designate W for water, S for soil, O for Oil, A for air, SO for solid, L for non-aqueous liquid.

Sample amount: Initial sample weight (g) or volume (ml or cc or ul).

Sequence Name: C:\HPCHEM\1\SEQUENCE\091099.S
Comment:
Operator: ClaudiaP
Data Path: C:\HPCHEM\1\DATA\091099\
Pre-Seq Cmd:
Post-Seq Cmd:

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	BFB	100	G0010431	BFB	BFB tune
2	Calibration	1	G0010432	8260LL	IC285-1,10ml
3	Calibration	2	G0010433	8260LL	IC285-5,10ml
4	Calibration	3	G0010434	8260LL	IC285-10,10ml
5	Calibration	4	G0010435	8260LL	ICC285-20,10ml
6	Calibration	5	G0010436	8260LL	IC285-35,10ml
7	Calibration	6	G0010437	8260LL	IC285-50,10ml
8	Sample	7	G0010438	8260LL	ICV-20,10ml
9	Blank	8	G0010439	8260LL	MB,10ml

SAMPLE RESULT SUMMARY

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 8015	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV000102.D	1	09/27/99	RAW	n/a	n/a	GUV1
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		75-125%
98-08-8	aaa-Trifluorotoluene	98%		75-125%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000102.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000102.D\FID2A.CH
Acq On : 27 Sep 1999 2:29 pm Operator: RickW
Sample : F4941-1,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 15:02 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Mon Sep 27 11:09:01 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

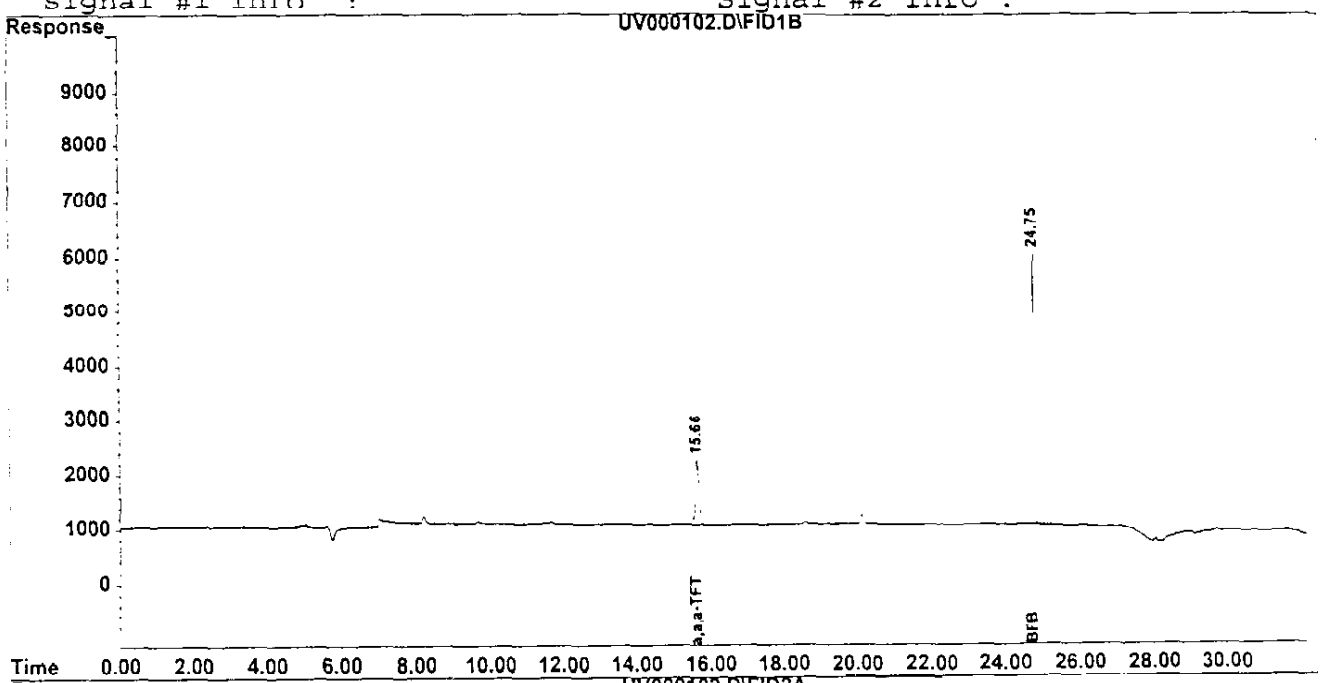
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	15.66	80409	20.947 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	104.74%
2) S BFB	24.75	213593	18.425 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	92.13%
4) S a,a,a-TFT #2	15.66	463706	19.505 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	97.52%
5) S BFB #2	24.75	333321	18.986 ug/L
piked Amount 20.000	Range 75 - 125	Recovery =	94.93%
Target Compounds			
6) H TPH-GRO (C6-C10)	0.00	0	N.D. ug/L

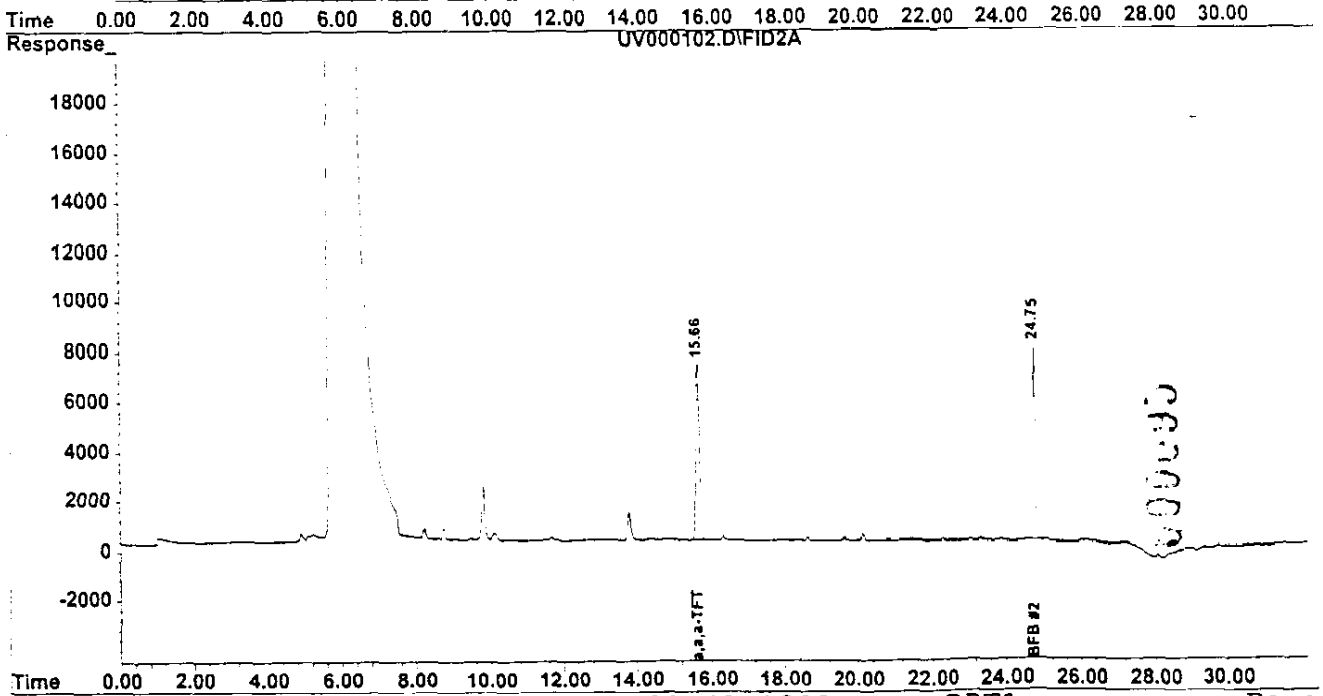
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000102.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000102.D\FID2A.CH
Acq On : 27 Sep 1999 2:29 pm Operator: RickW
Sample : F4941-1,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 15:02 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Mon Sep 27 11:09:01 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





SURROGATE RECOVERIES SUMMARY

VGC.02

Volatile Surrogate Recovery Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Method: SW846 8015 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]
F4941-1	UV000102.D	95.0	98.0
F4900-2MS	UV000043.D	100.0	103.0
F4900-2MSD	UV000044.D	100.0	99.0
GUV1-BS	UV000045.D	101.0	97.0
GUV1-MB	UV000040.D	97.0	93.0
GUV1-MB	UV000059.D	93.0	91.0
GUV1-MB	UV000097.D	96.0	98.0

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	75-125%
S2 = aaa-Trifluorotoluene	75-125%

(a) Recovery from GC signal #2

MATRIX SPIKE/ MARTIX SPIKE DUPLICATE/ BLANK SPIKE SUMMARY

VGC.03

Blank Spike Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV1-BS	UV000045.D	1	09/17/99	RAW	n/a	n/a	GUV1

The QC reported here applies to the following samples: **Method:** SW846 8015

F4941-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.412	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	75-125%
98-08-8	aaa-Trifluorotoluene	97%	75-125%

000097

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000045.D\FID1B.CH Vial: 8
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000045.D\FID2A.CH
Acq On : 17 Sep 1999 4:43 pm Operator: RickW
Sample : bs,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:17 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.47	15.47	76910	462590	20.036m	19.458
Spiked Amount	20.000	Range	75 - 125	Recovery	= 100.18%	97.29%
2) S BFB	24.56	24.56	216142	355322	18.645	20.239
Spiked Amount	20.000	Range	75 - 125	Recovery	= 93.23%	101.20%
Target Compounds						
H TPH-GRO	23.00	23.00	1492717	7785566	336.650	412.063

000095

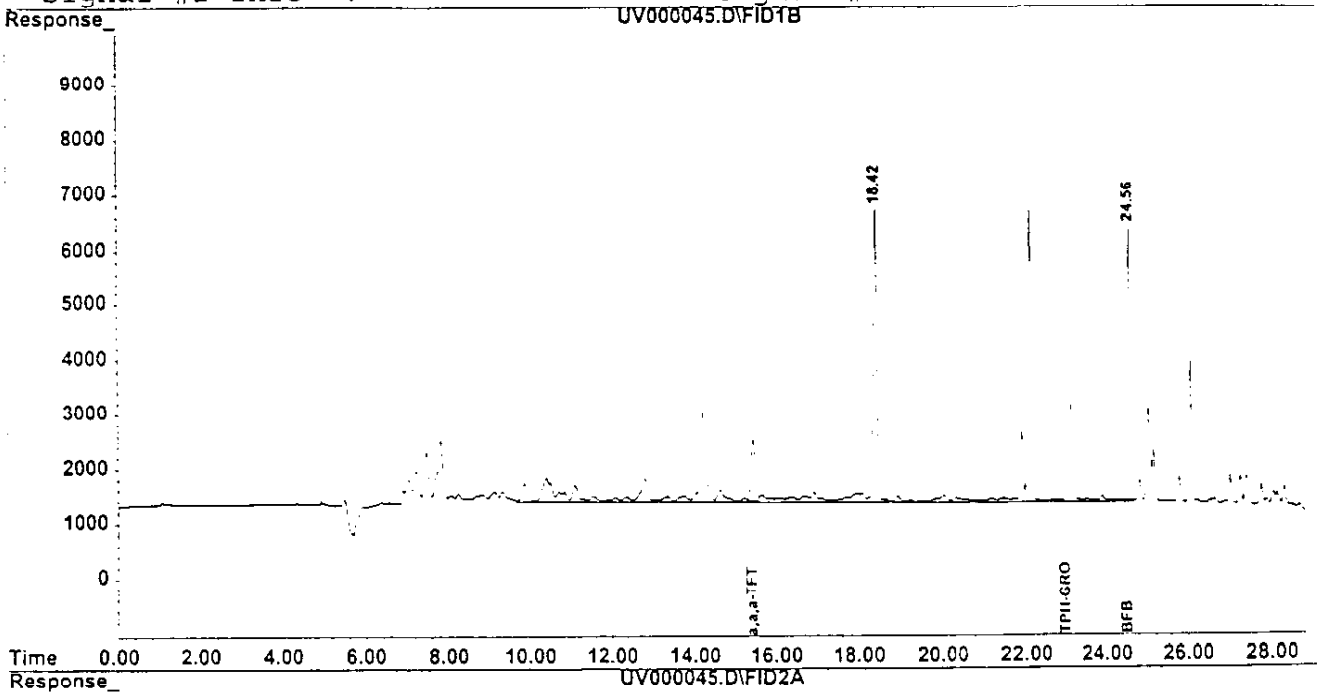
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

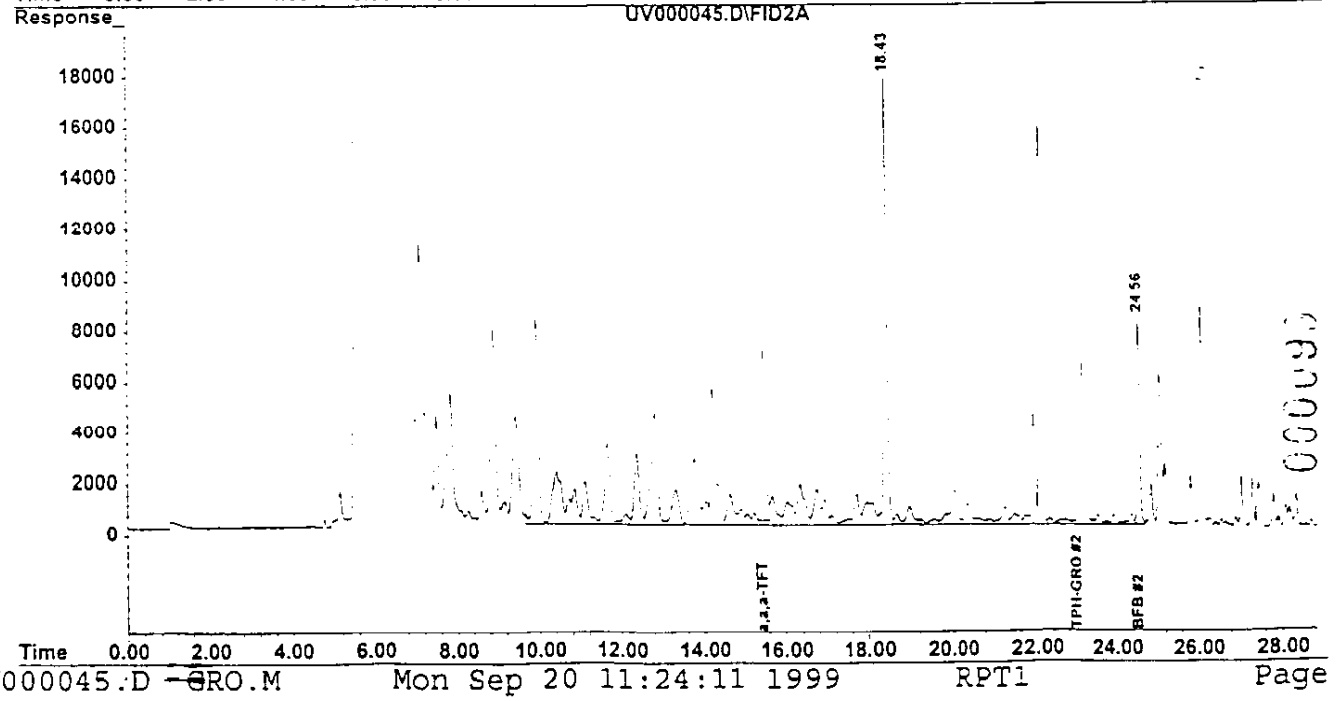
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000045.D\FID1B.CH Vial: 8
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000045.D\FID2A.CH
Acq On : 17 Sep 1999 4:43 pm Operator: RickW
Sample : bs,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:17 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F4900-2MS	UV000043.D	1	09/17/99	RAW	n/a	n/a	GUV1
F4900-2MSD	UV000044.D	1	09/17/99	RAW	n/a	n/a	GUV1
F4900-2	UV000042.D	1	09/17/99	RAW	n/a	n/a	GUV1

The QC reported here applies to the following samples: **Method:** SW846 8015

F4941-1

CAS No.	Compound	F4900-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		0.4	0.413	103	0.410	102	1	70-130/20

CAS No.	Surrogate Recoveries	MS	MSD	F4900-2	Limits
460-00-4	4-Bromofluorobenzene	100%	100%	97%	75-125%
98-08-8	aaa-Trifluorotoluene	103%	99%	96%	75-125%

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000043.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000043.D\FID2A.CH
Acq On : 17 Sep 1999 3:32 pm Operator: RickW
Sample : F4900-2ms,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 16:55 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 14:15:13 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.48	15.48	72593	491855	18.911	20.689
Spiked Amount	20.000	Range	75 - 125	Recovery =	94.56%	103.45%
2) S BFB	24.57	24.57	215997	351857	18.633	20.041
Spiked Amount	20.000	Range	75 - 125	Recovery =	93.16%	100.21%
Target Compounds						
H TPH-GRO	23.00	23.00	1446055	7804071	321.426	413.207 #

000101

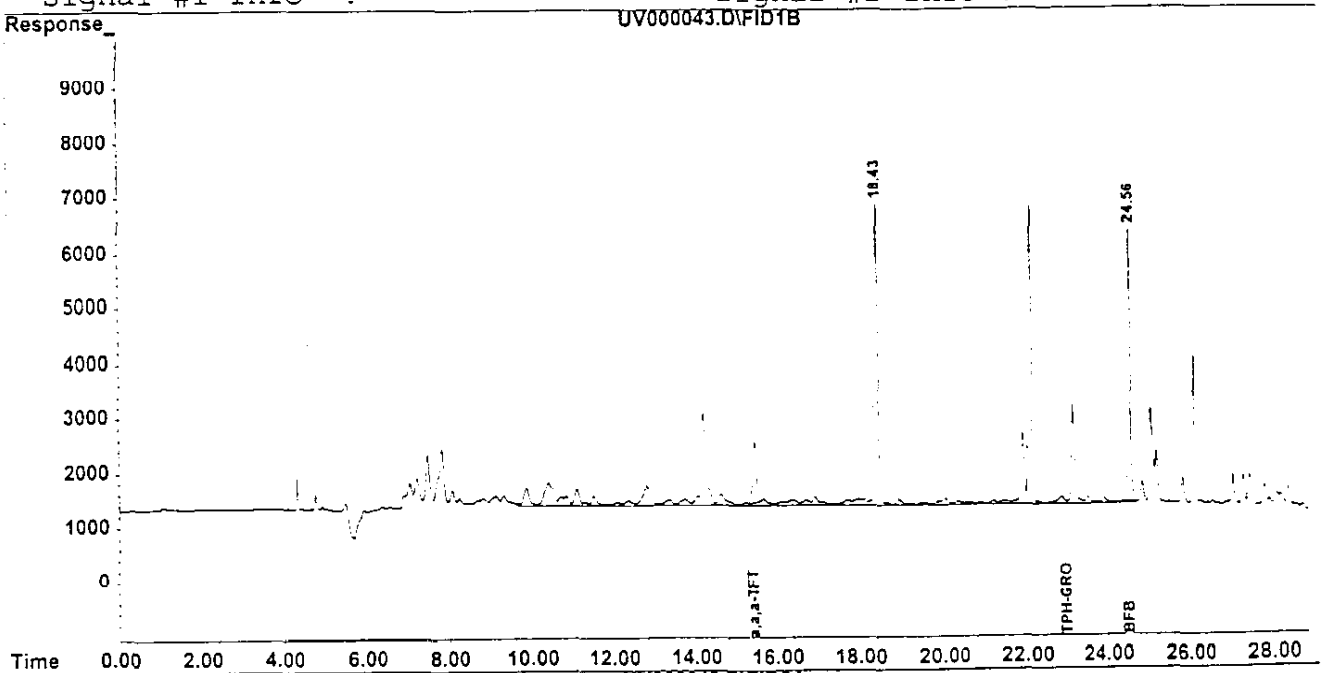
(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

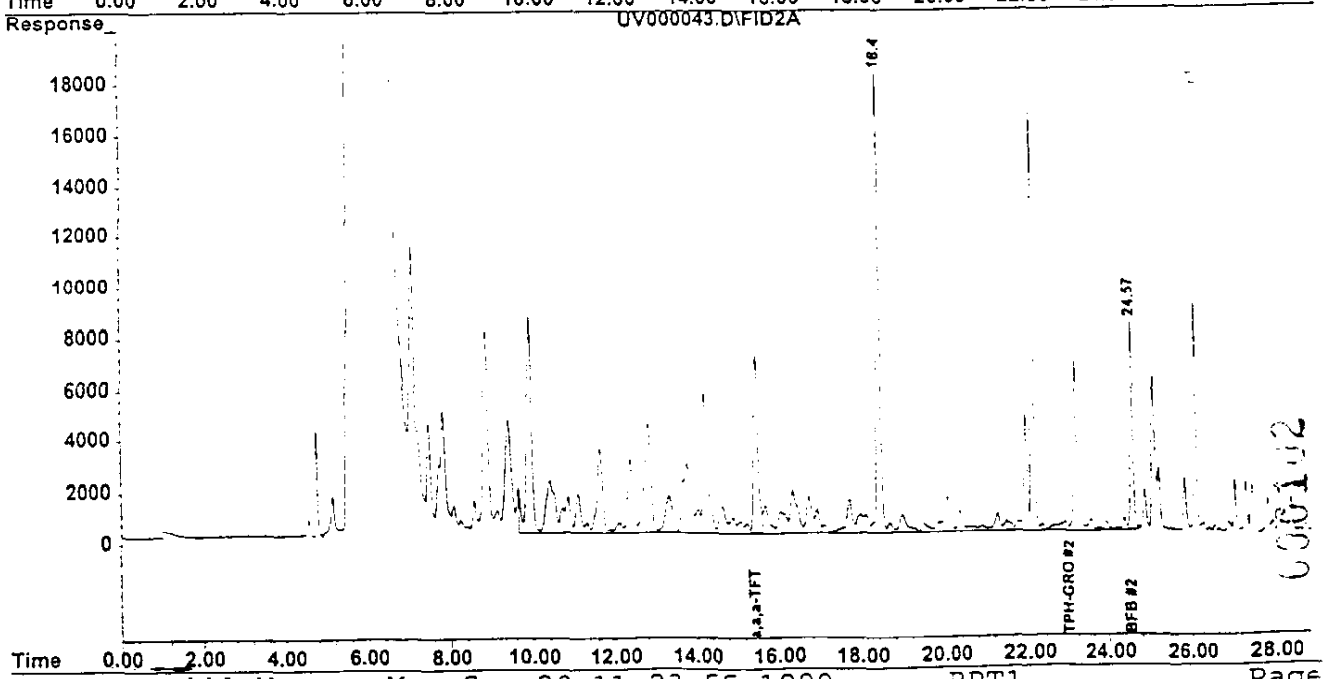
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000043.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000043.D\FID2A.CH
Acq On : 17 Sep 1999 3:32 pm Operator: RickW
Sample : F4900-2ms,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 16:55 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 14:15:13 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000044.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000044.D\FID2A.CH
Acq On : 17 Sep 1999 4:07 pm Operator: RickW
Sample : F4900-2msd,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:15 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.47	15.48	71314	470492	18.578	19.791
Spiked Amount	20.000	Range	75 - 125	Recovery	= 92.89%	98.96%
2) S BFB	24.56	24.56	212551	351682	18.335	20.031
Spiked Amount	20.000	Range	75 - 125	Recovery	= 91.68%	100.16%
Target Compounds						
H TPH-GRO	23.00	23.00	1480383	7754630	332.626	410.151

000113

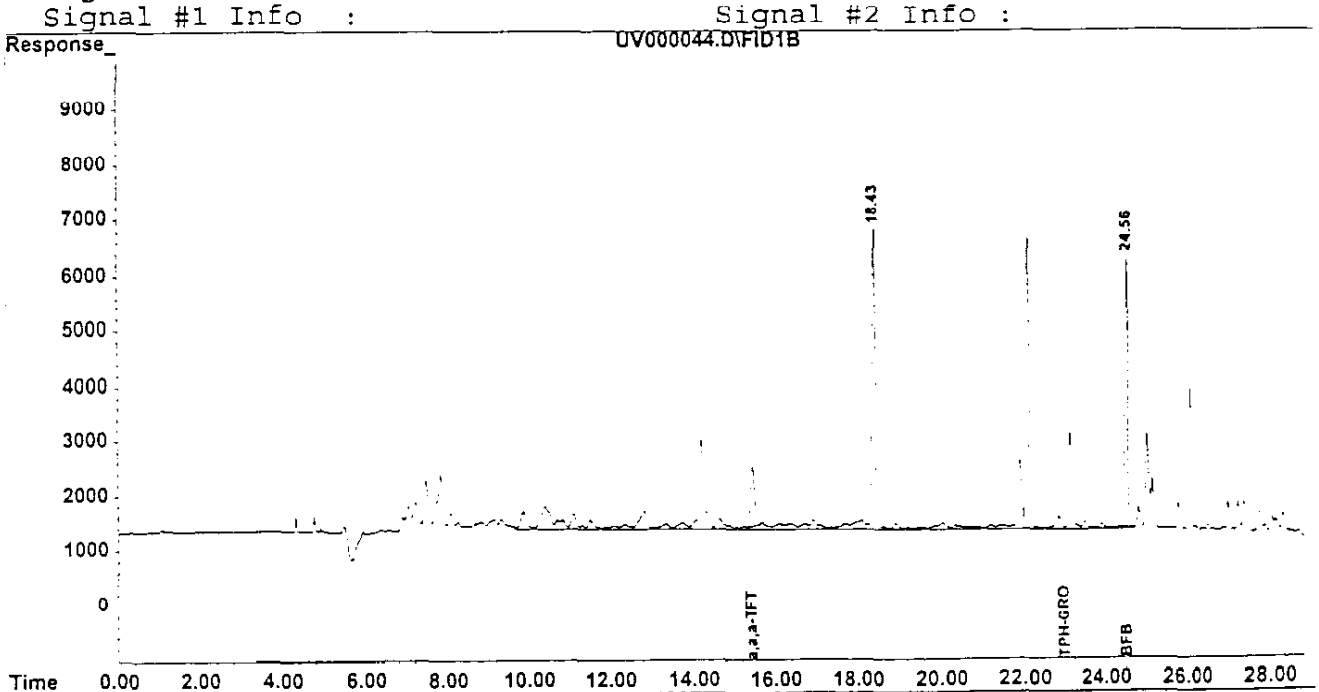
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

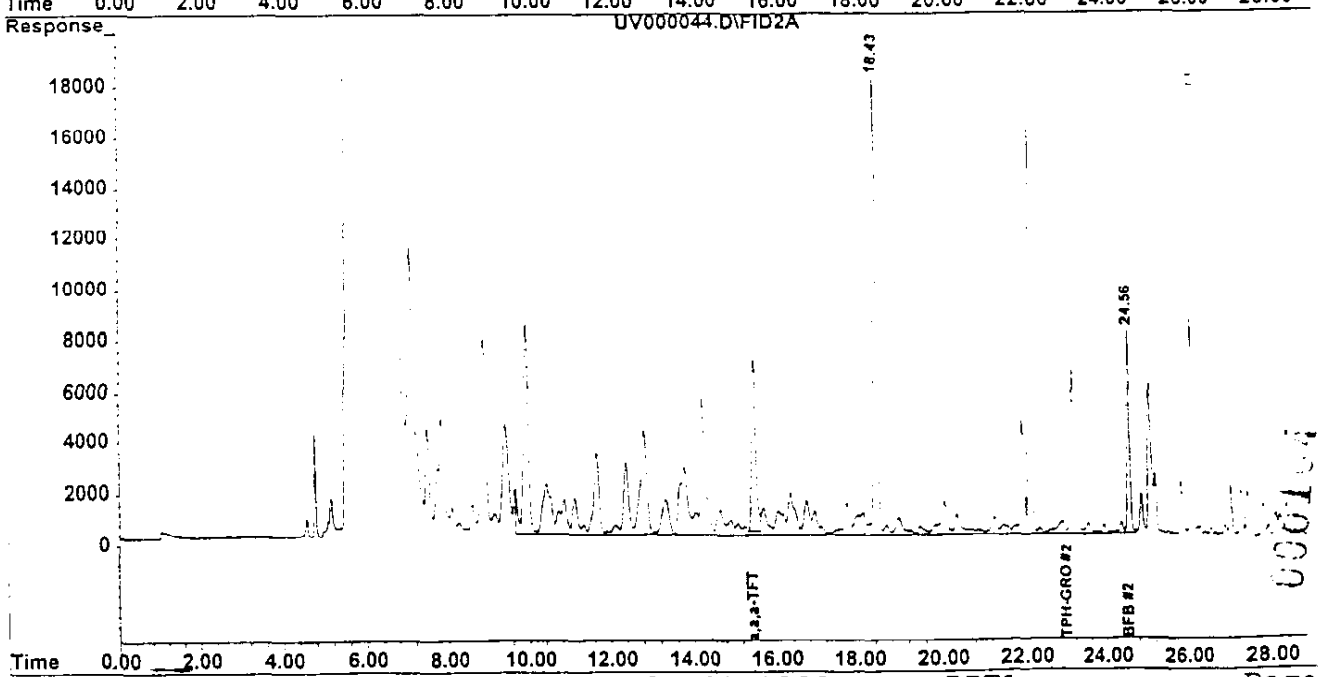
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091799\UV000044.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\091799\UV000044.D\FID2A.CH
Acq On : 17 Sep 1999 4:07 pm Operator: RickW
Sample : F4900-2msd,5ml Inst : VOA4
Misc : gc662,guv1,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 20 11:15 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





METHOD BLANK SUMMARY

Method Blank Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV1-MB	UV000097.D	1	09/27/99	RAW	n/a	n/a	GUV1

The QC reported here applies to the following samples: **Method:** SW846 8015

F4941-1

CAS No.	Compound	Result	RDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	96%	75-125%
98 08 8	aaa-Trifluorotoluene	98%	75-125%

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000097.D\FID1B.CH Vial: 12
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000097.D\FID2A.CH
Acq On : 27 Sep 1999 11:13 am Operator: RickW
Sample : MB Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 12:43 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Mon Sep 27 11:09:01 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

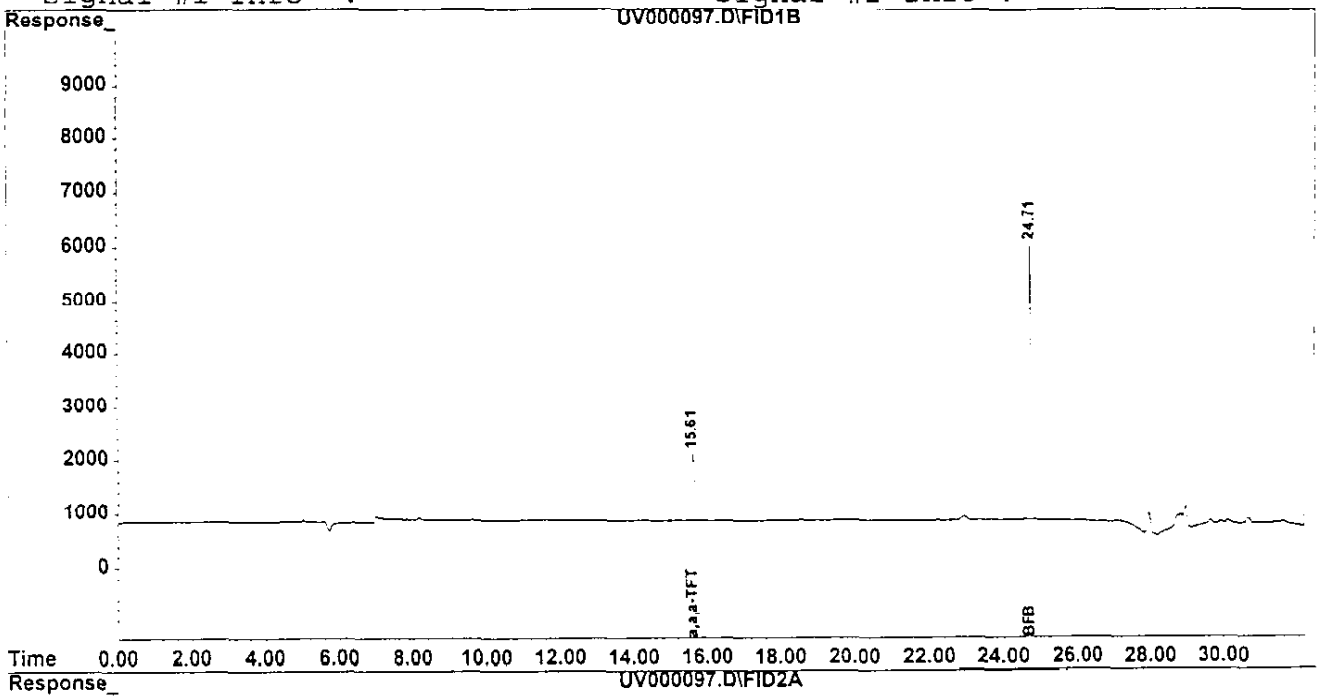
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	15.61	81342	21.190 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	105.95%
2) S BFB	24.71	222912	19.229 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	96.15%
4) S a,a,a-TFT #2	15.61	465579	19.584 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	97.92%
5) S BFB #2	24.71	336722	19.179 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	95.90%
Target Compounds			
6) H TPH-GRO (C6-C10)	0.00	0	N.D. ug/L

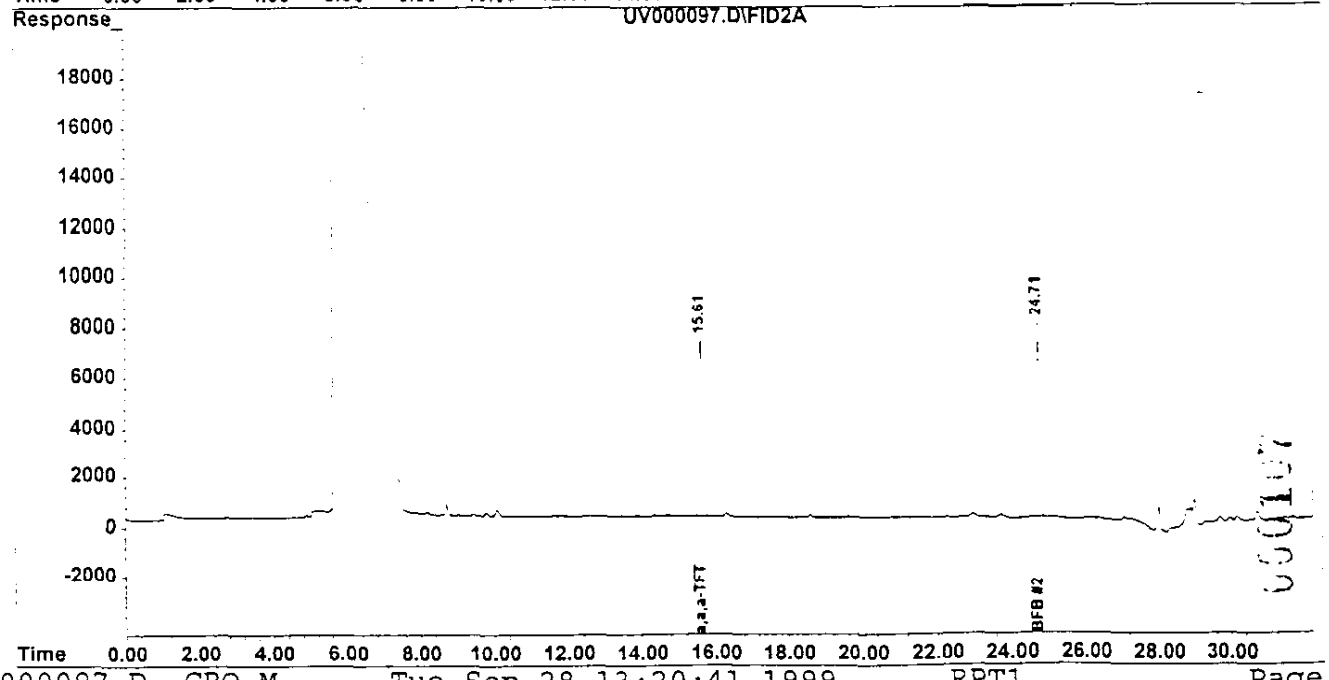
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000097.D\FID1B.CH Vial: 12
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000097.D\FID2A.CH
Acq On : 27 Sep 1999 11:13 am Operator: RickW
Sample : MB Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 12:43 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Mon Sep 27 11:09:01 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





INITIAL CALIBRATION SUMMARY

VGC.05

Response Factor Report VOA4

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999

%RSD > 15 BY QUAN CURVE. FAIL

Calibration Files
1 =UV000022.D 2 =UV000023.D 3 =UV000024.D
4 =UV000025.D 5 =UV000026.D 6 =UV000027.D

	Compound	1	2	3	4	5	6	Avg	%RSD
1) S	a,a,a-TFT	4.162	4.002	3.771	3.781	3.678	3.637	3.839 E3	5.28
2) S	BFB	1.218	1.177	1.172	1.141	1.136	1.111	1.159 E4	3.28
3) H	TPH-GRO	7.343	5.429	4.256	3.823	3.724	3.471	4.674 E3	31.64

Signal #2 Calibration Files
1 =UV000022.D 2 =UV000023.D 3 =UV000024.D
4 =UV000025.D 5 =UV000026.D 6 =UV000027.D

	Compound	1	2	3	4	5	6	Avg	%RSD
1) S	a,a,a-TFT	2.363	2.303	2.328	2.385	2.578	2.307	2.377 E4	4.36
2) S	BFB	1.777	1.773	1.807	1.791	1.701	1.685	1.756 E4	2.85
3) H	TPH-GRO	2.605	2.160	1.918	1.792	1.835	1.683	1.999 E4	16.88

000108

(#) = Out of Range

Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000021.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000021.D\FID2A.CH
Acq On : 16 Sep 1999 10:46 am Operator: RickW
Sample : C6-C10 alkanes Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 16 12:59 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 12:59:24 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
2) S BFB	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 20.000			Recovery	=	0.00%	0.00%
Target Compounds						
3 . TPH-GRO	23.00	23.00	604416	15202053	N.D.	747.211

000100

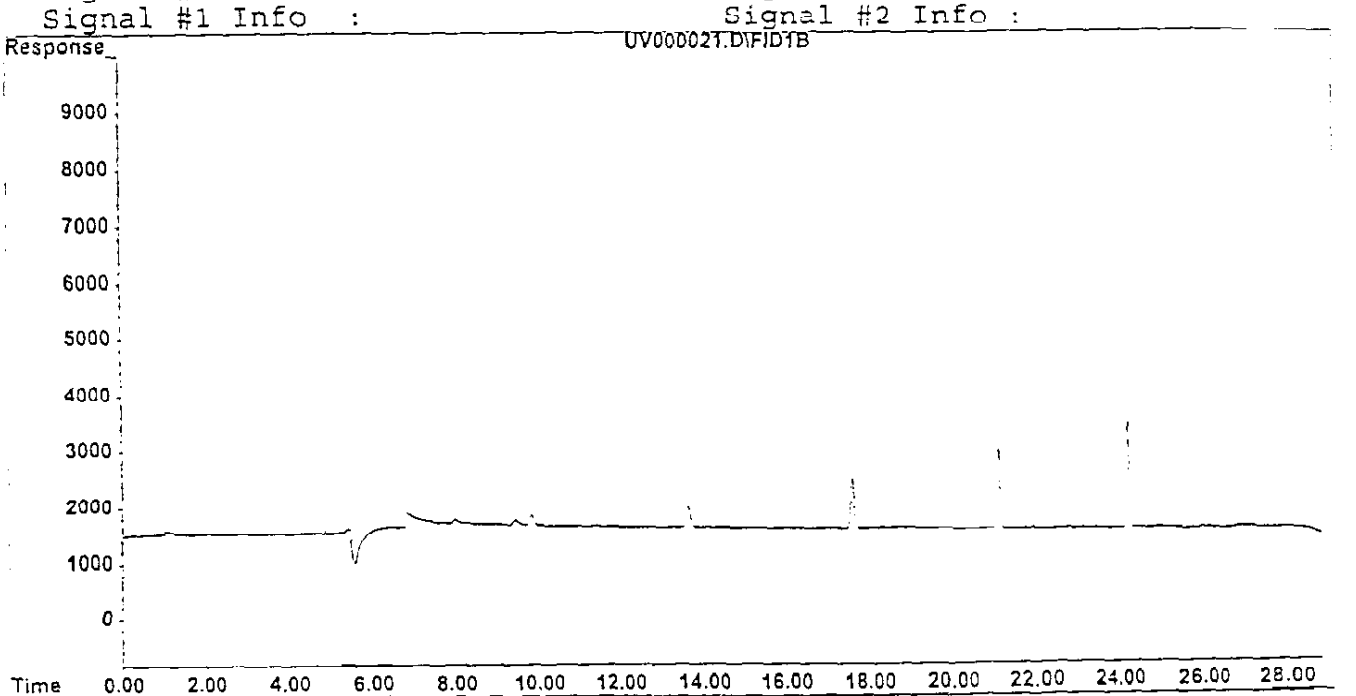
(*)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

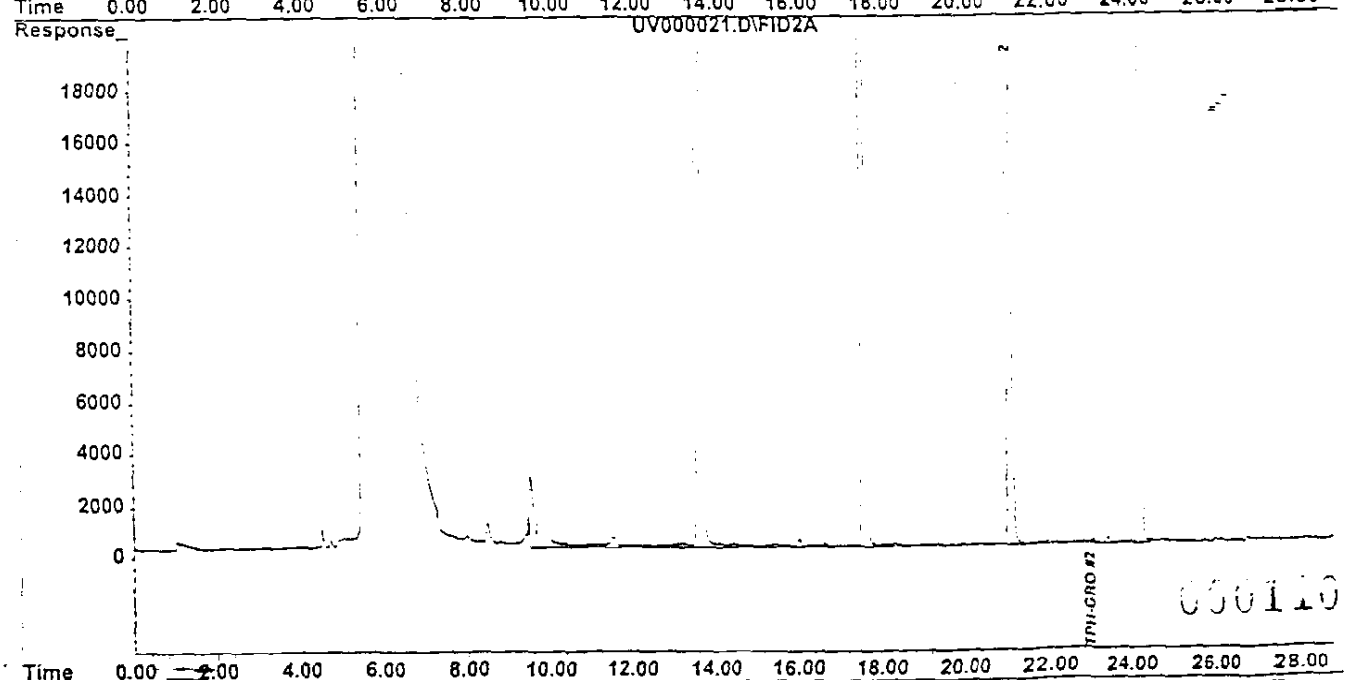
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000021.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000021.D\FID2A.CH
Acq On : 16 Sep 1999 10:46 am Operator: RickW
Sample : C6-C10 alkanes Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 16 12:59 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 12:59:24 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000022.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000022.D\FID2A.CH
Acq On : 16 Sep 1999 3:03 pm Operator: RickW
Sample : 100ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 16 16:02 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 16:02:24 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.41	15.41	83248	472635	18.662	18.168
Spiked Amount 20.000			Recovery	=	93.31%	90.84%
2) S BFB	24.51	24.51	243675	355307	18.022	17.414
Spiked Amount 20.000			Recovery	=	90.11%	87.07%
Target Compounds						
3 TPH-GRO	23.00	23.00	734281	2605364	30.019	43.665 #

000111

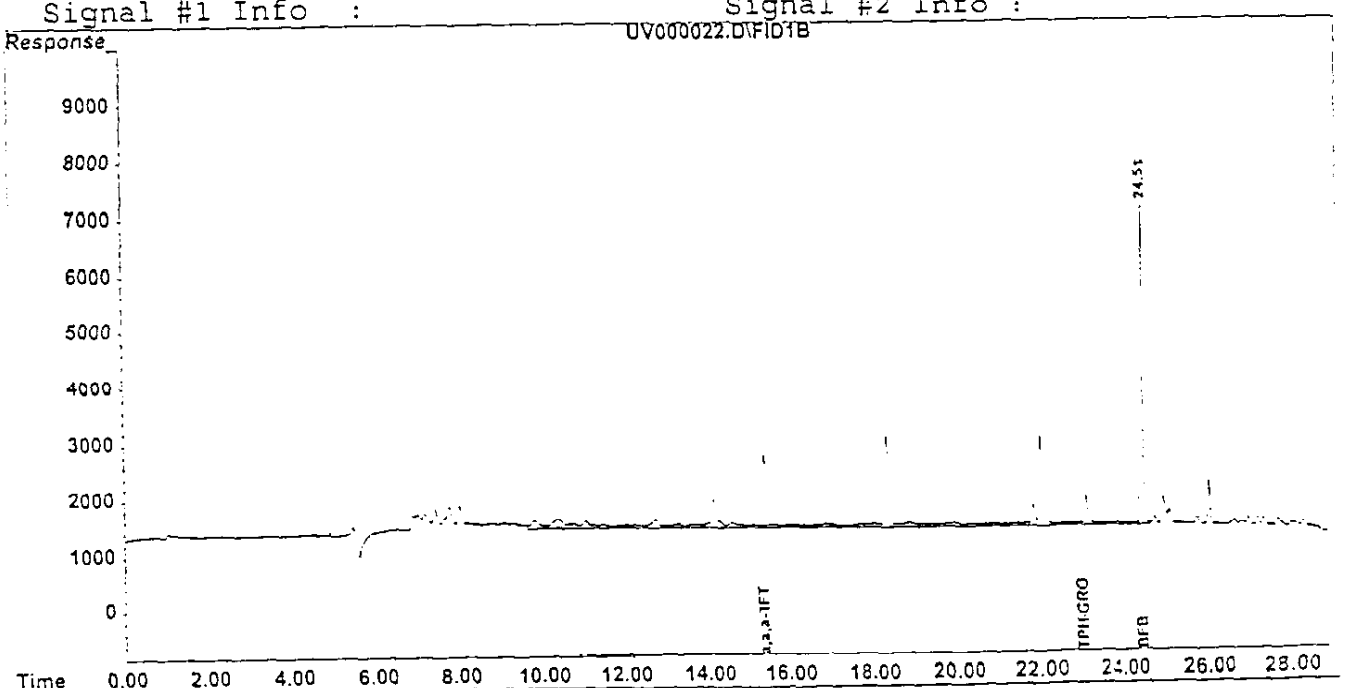
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

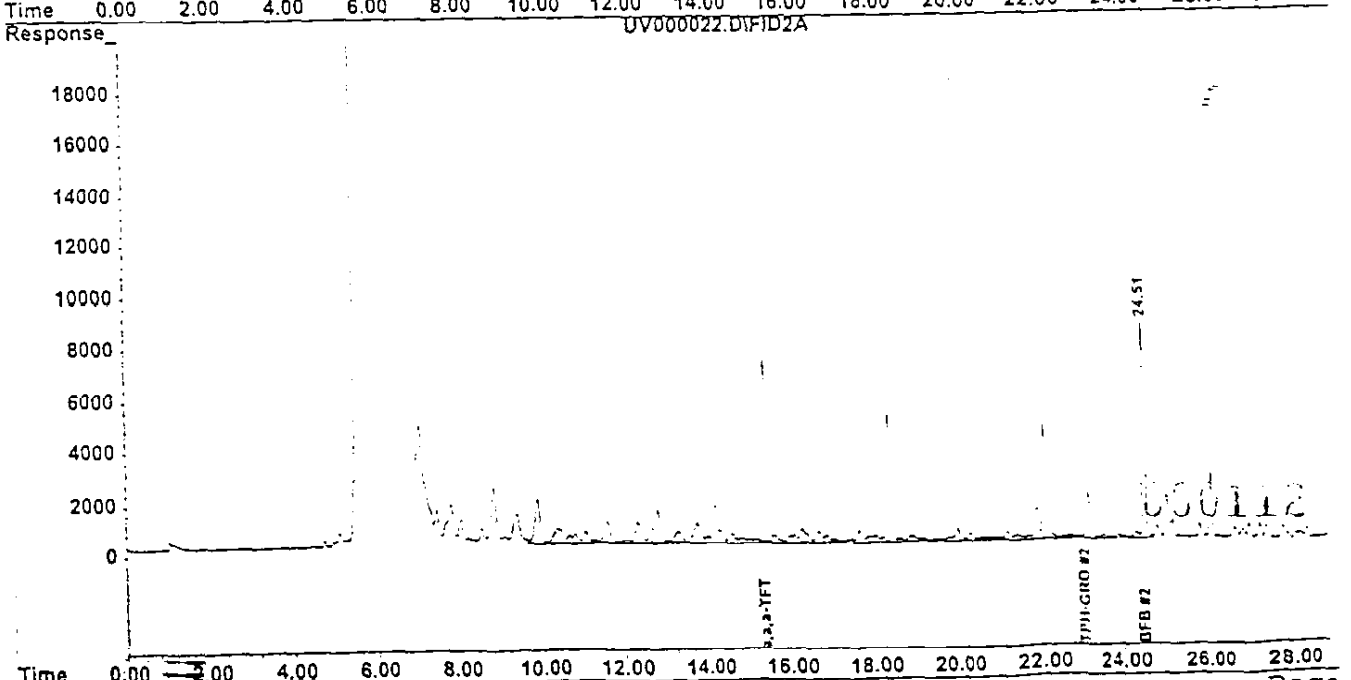
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000022.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000022.D\FID2A.CH
Acq On : 16 Sep 1999 3:03 pm Operator: RickW
Sample : 100ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 16 16:02 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 16:02:24 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000023.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000023.D\FID2A.CH
Acq On : 16 Sep 1999 3:39 pm Operator: RickW
Sample : 200ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 8:53 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 16:02:24 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
) S a,a,a-TFT	15.46	15.46	80037	460612	18.170	17.799
Spiked Amount 20.000			Recovery	=	90.85%	89.00%
) S BFB	24.55	24.55	235472	354571	17.663	17.580
Spiked Amount 20.000			Recovery	=	88.32%	87.90%
Target Compounds						
) TPH-GRO	23.00	23.00	1085800	4319557	151.719	162.674

000113

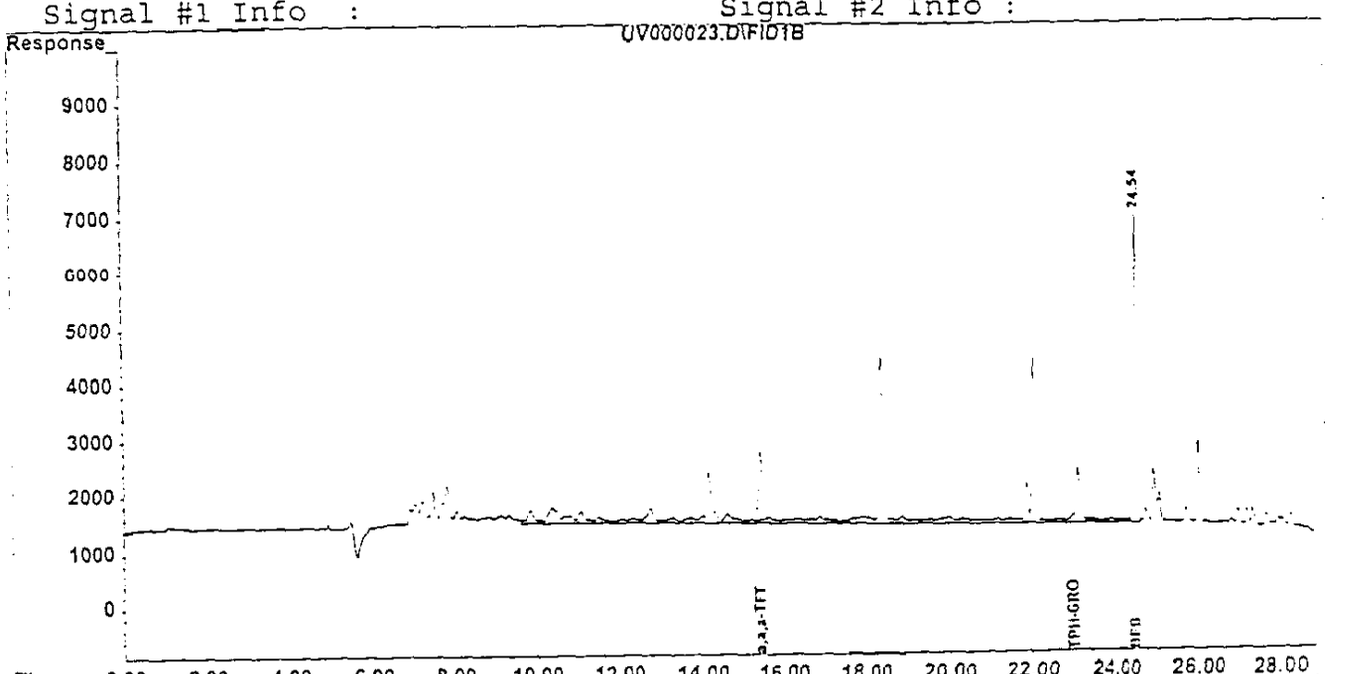
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

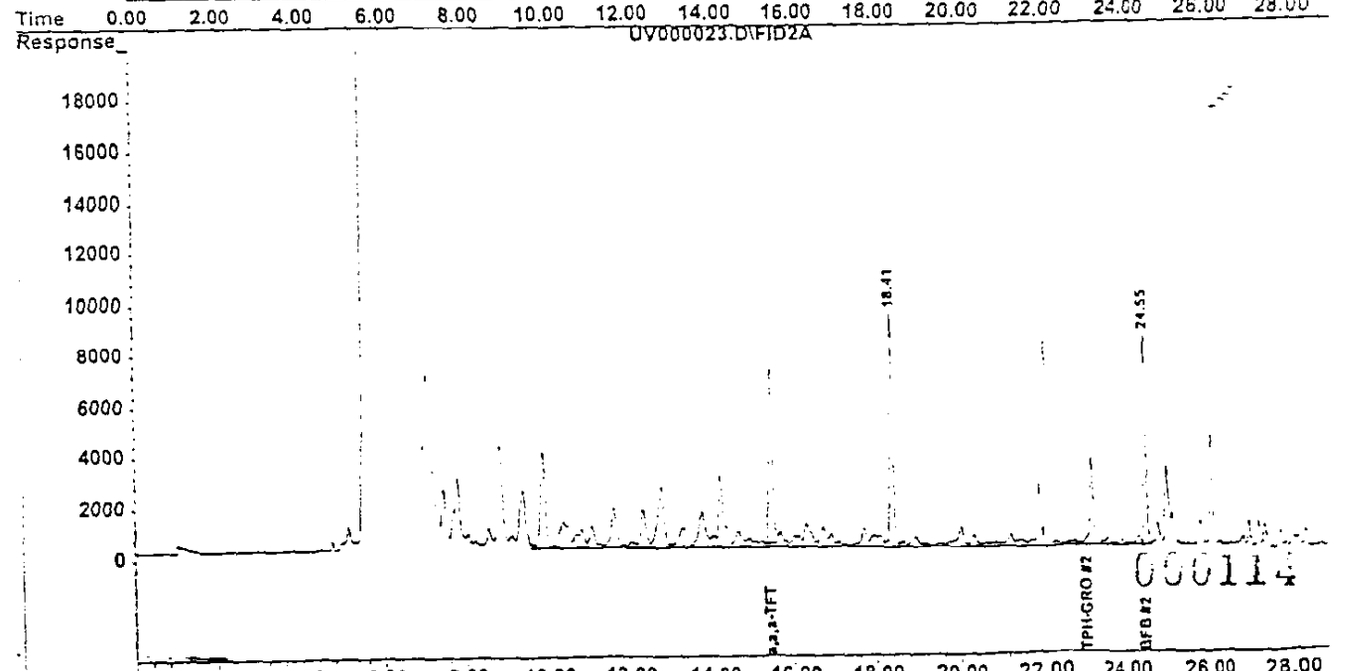
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000023.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000023.D\FID2A.CH
Acq On : 16 Sep 1999 3:39 pm Operator: RickW
Sample : 200ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 8:53 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 16 16:02:24 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000114

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000024.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000024.D\FID2A.CH
Acq On : 16 Sep 1999 4:15 pm Operator: RickW
Sample : 400ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:51 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 08:54:08 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
S a,a,a-TFT	15.46	15.46	75426	465554	17.463	18.313
piked Amount 20.000			Recovery	=	87.32%	91.57%
S BFB	24.55	24.55	234449	361422	18.063	18.300
piked Amount 20.000			Recovery	=	90.31%	91.50%
Target Compounds						
TPH-GRO	23.00	23.00	1702538	7673851	313.228	355.597

000115

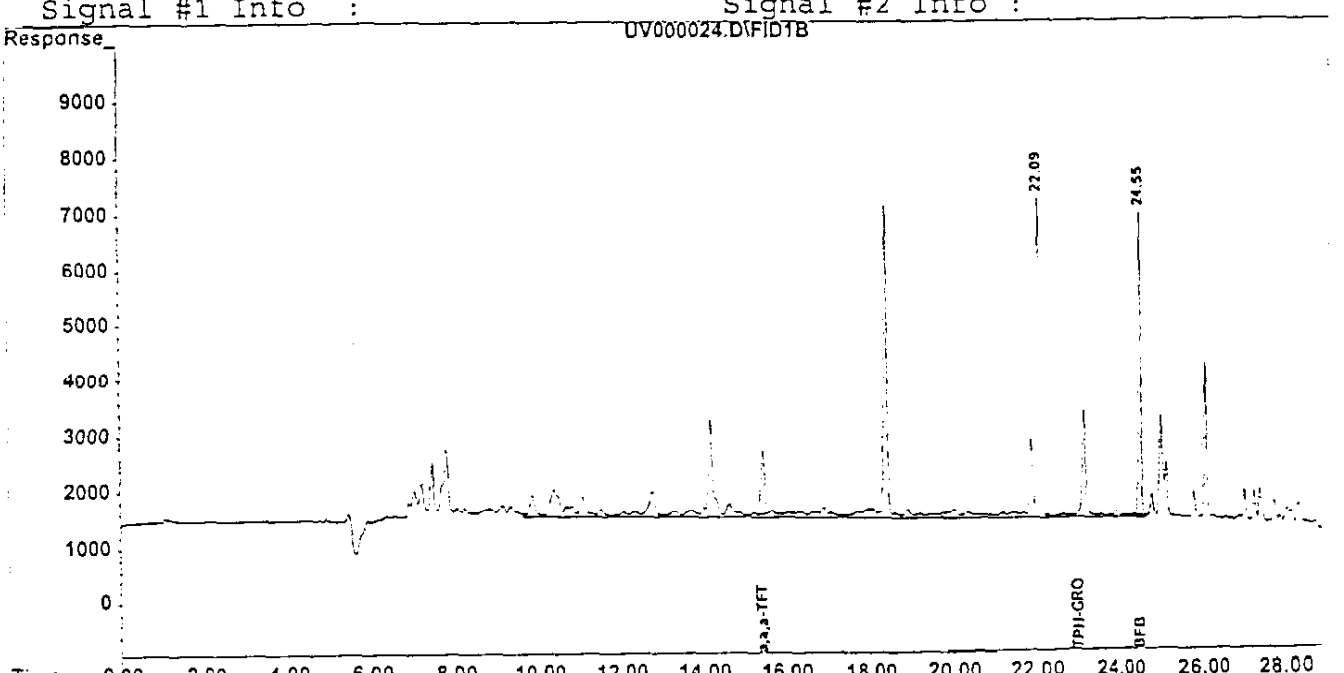
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

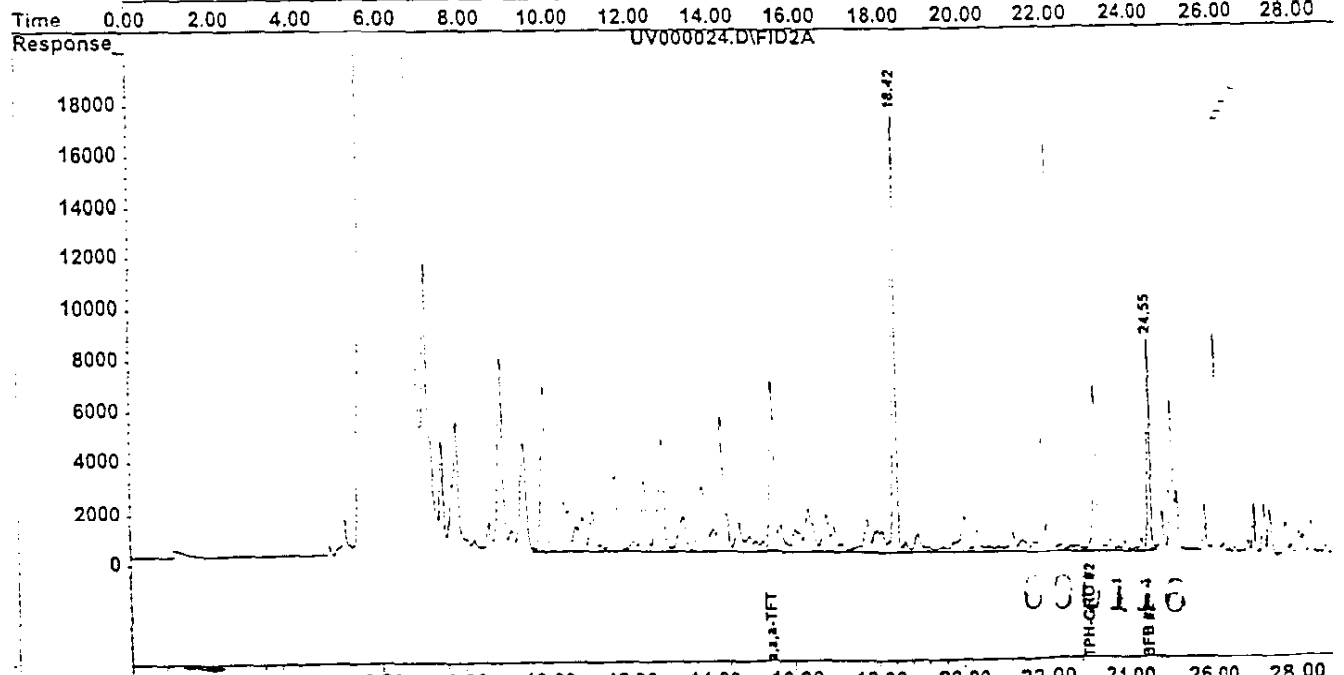
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000024.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000024.D\FID2A.CH
Acq On : 16 Sep 1999 4:15 pm Operator: RickW
Sample : 400ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:51 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 08:54:08 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000025.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000025.D\FID2A.CH
Acq On : 16 Sep 1999 4:50 pm Operator: RickW
Sample : 600ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:52 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 08:54:08 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
) S a,a,a-TFT	15.45	15.45	75623	476994	18.021	19.258
Spiked Amount 20.000			Recovery	=	90.11%	96.29%
) S BFB	24.54	24.54	228105	358199	17.995	18.635
Spiked Amount 20.000			Recovery	=	89.98%	93.18%
Target Compounds						
3) TPH-GRO	23.00	23.00	2294007	10752693	457.630	528.943

00011

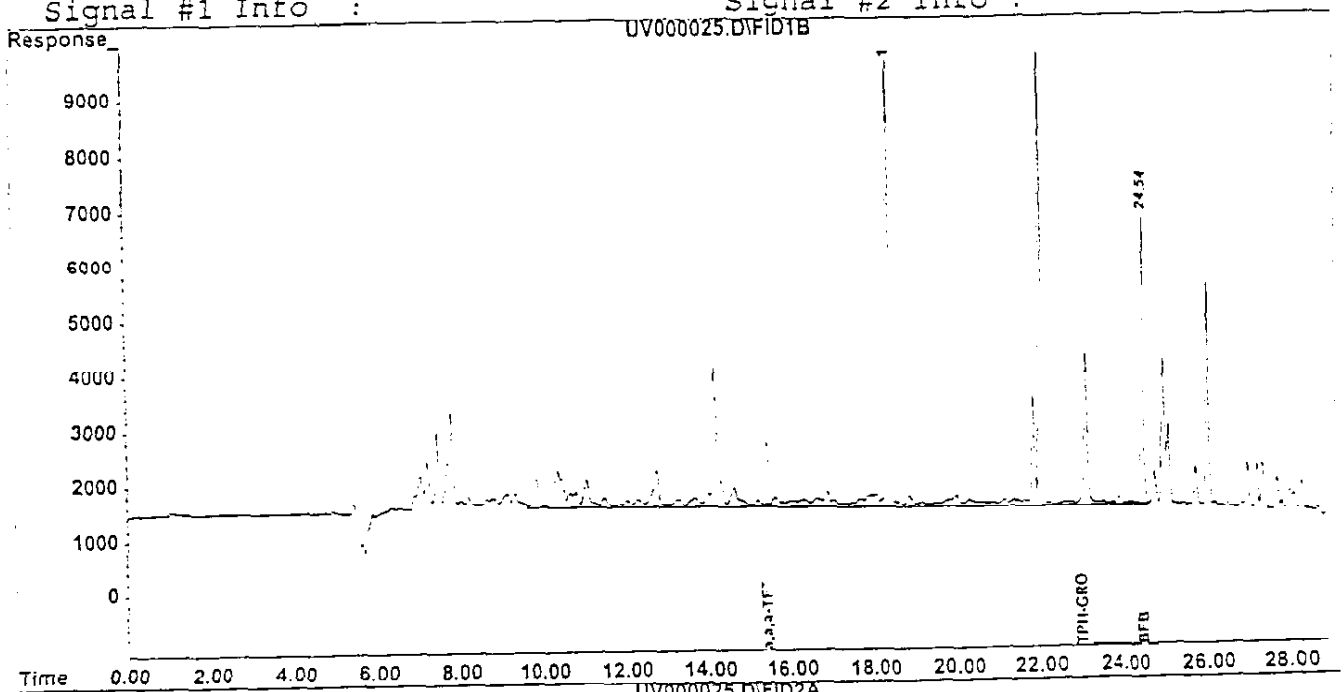
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

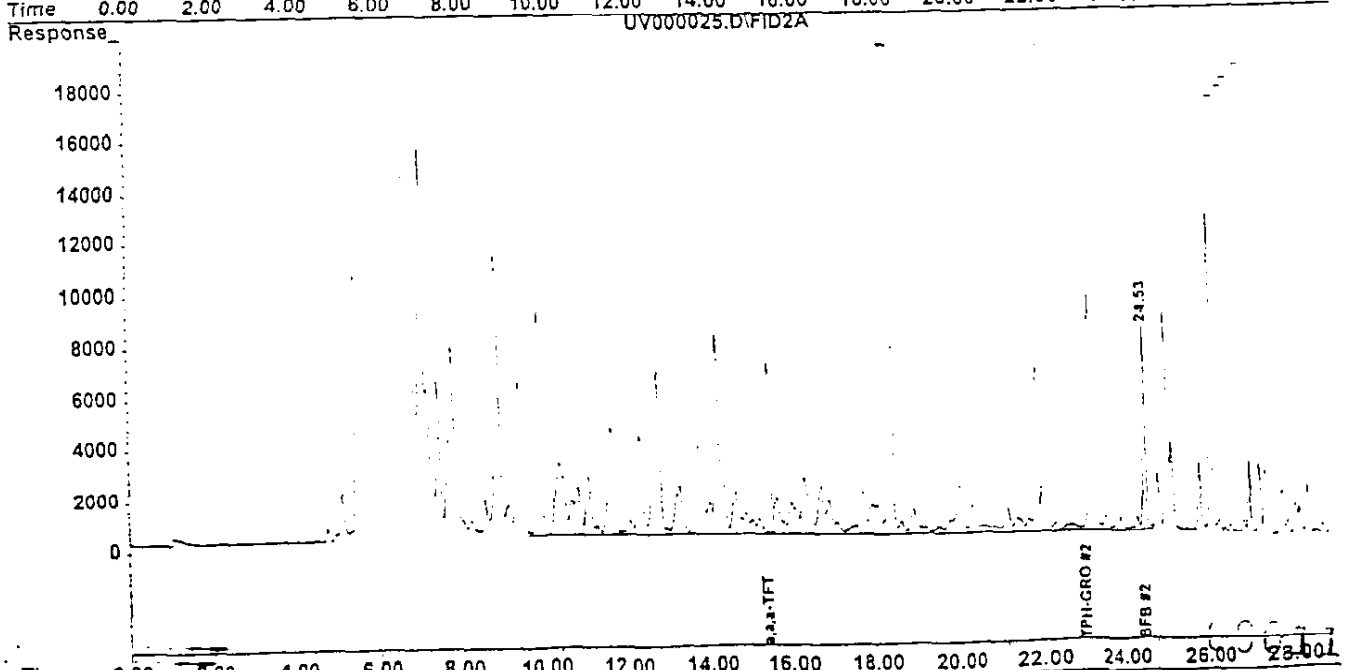
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000025.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000025.D\FID2A.CH
Acq On : 16 Sep 1999 4:50 pm Operator: RickW
Sample : 600ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:52 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 08:54:08 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000026.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000026.D\FID2A.CH
Acq On : 16 Sep 1999 5:26 pm Operator: RickW
Sample : 800ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:54 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:53:32 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
) S a,a,a-TFT	15.45	15.44	73570	515689	18.057	21.102
Spiked Amount 20.000			Recovery	=	90.29%	105.51%
) S BFB	24.54	24.53	227273	340267	18.399	17.854m
Spiked Amount 20.000			Recovery	=	92.00%	89.27%
Target Compounds						
3) TPH-GRO	23.00	23.00	2978965	14683833	632.121	756.291

00011

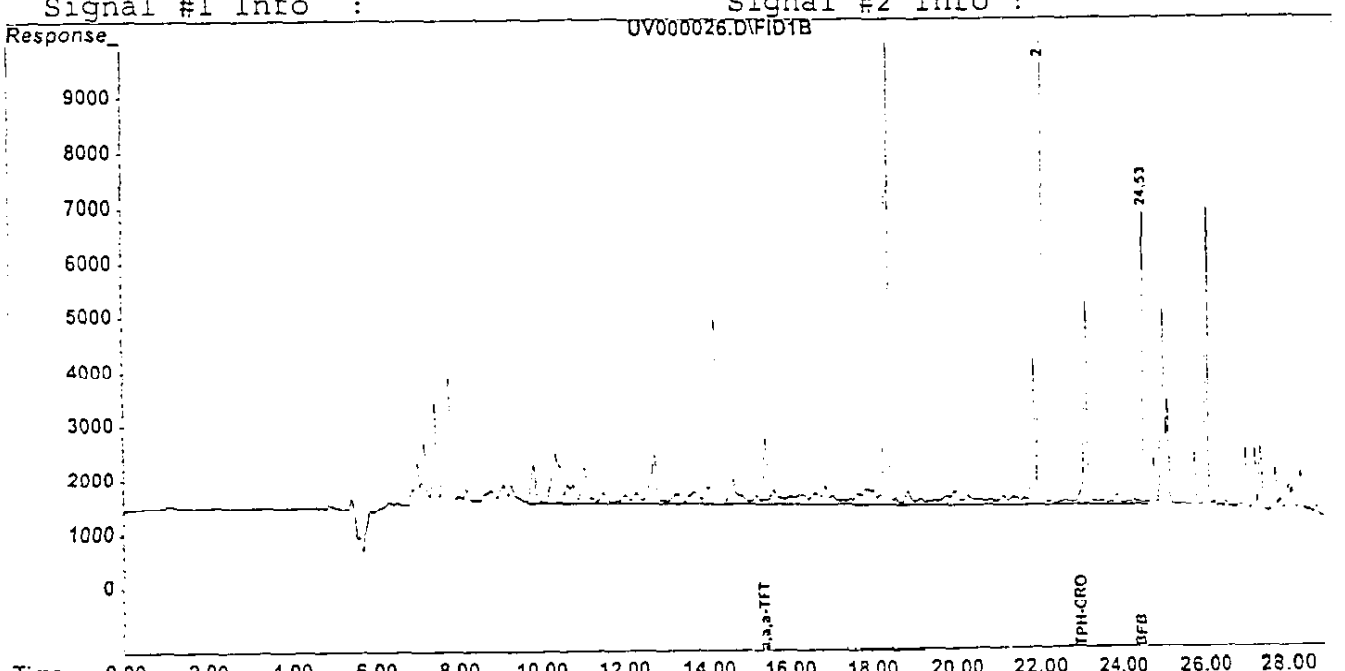
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

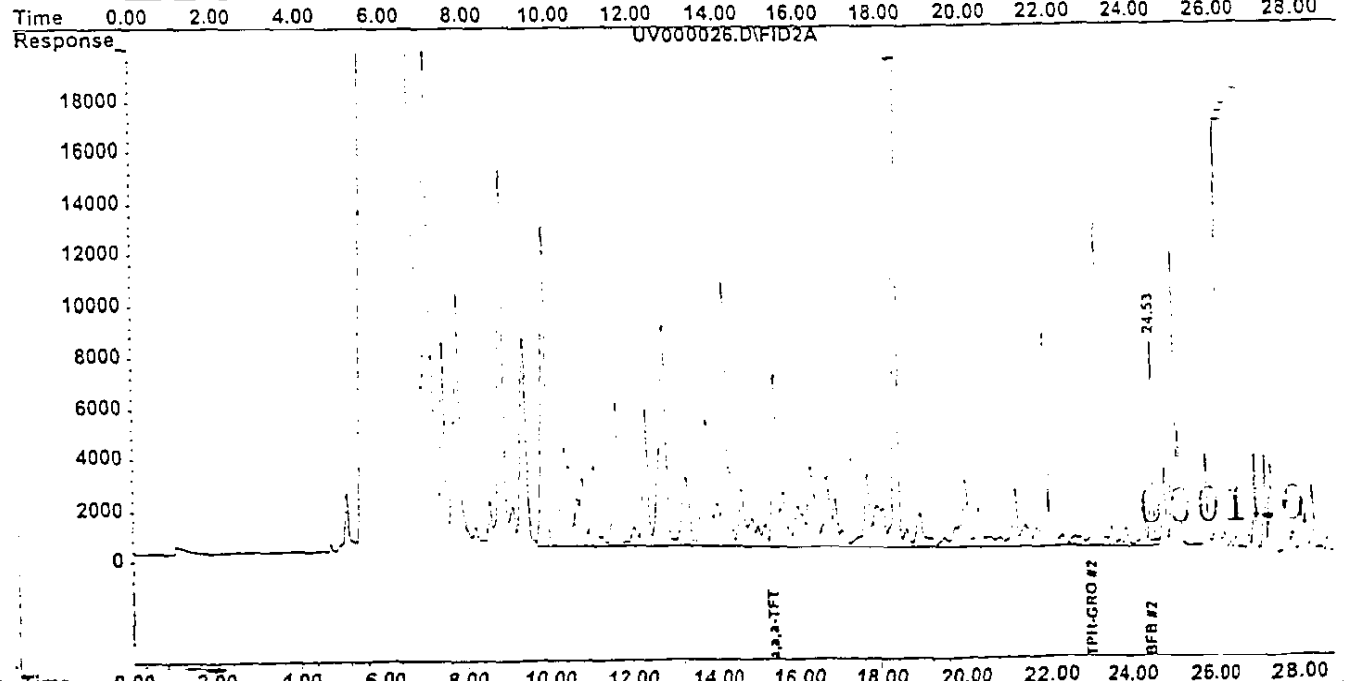
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000026.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000026.D\FID2A.CH
Acq On : 16 Sep 1999 5:26 pm Operator: RickW
Sample : 800ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:54 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:53:32 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000027.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000027.D\FID2A.CH
Acq On : 16 Sep 1999 6:02 pm Operator: RickW
Sample : 1000ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:58 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S a,a,a-TFT	15.47	15.46	72732	461349	18.434m	18.923m
Spiked Amount 20.000			Recovery	=	92.17%	94.61%
2) S BFB	24.55	24.55	222111	337022	18.474	18.783m
Spiked Amount 20.000			Recovery	=	92.37%	93.92%
Target Compounds						
3 . TPH-GRO	23.00	23.00	3471243	16834836	791.416	881.033

000131

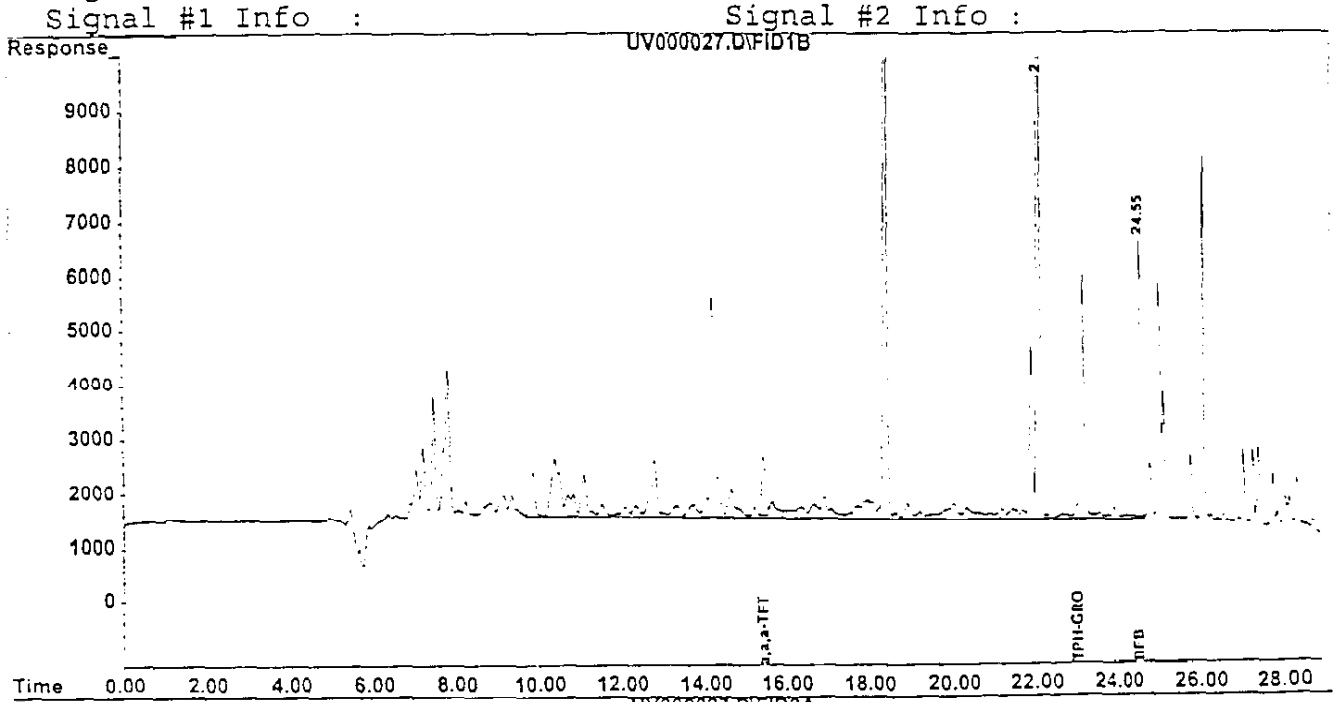
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

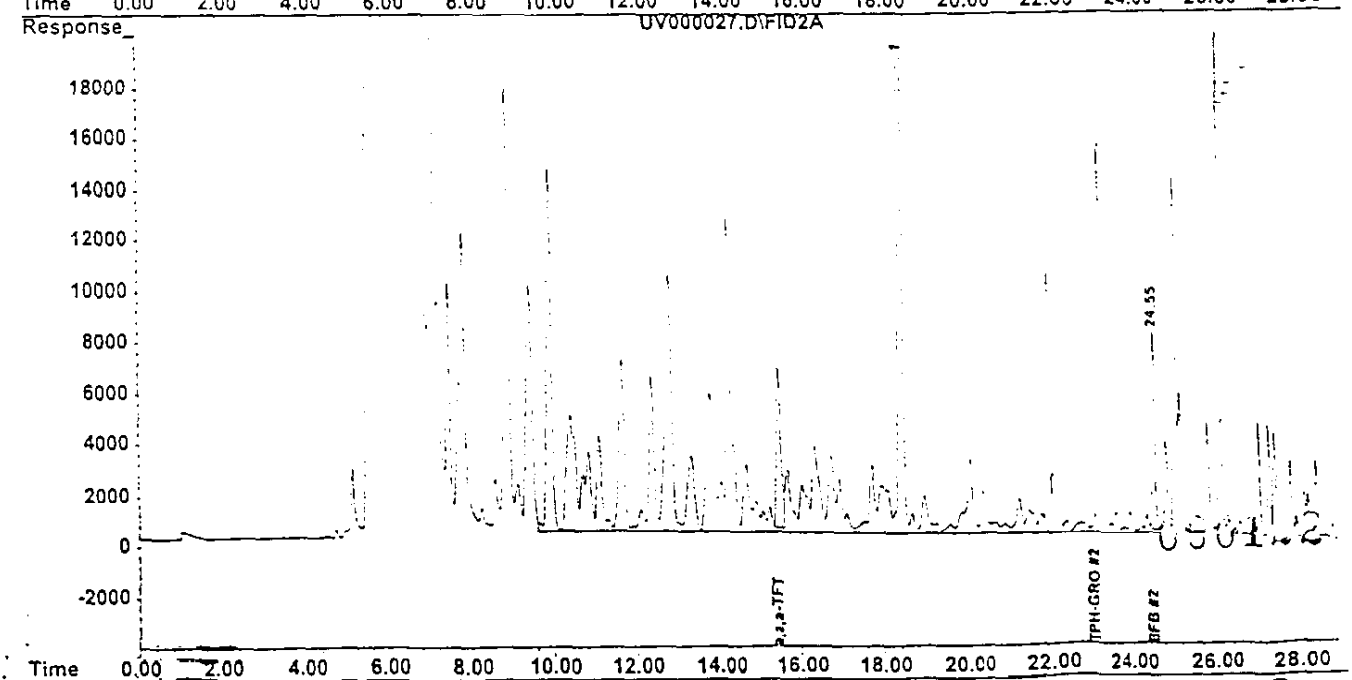
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000027.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000027.D\FID2A.CH
Acq On : 16 Sep 1999 6:02 pm Operator: RickW
Sample : 1000ppb STD Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 10:58 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000028.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000028.D\FID2A.CH
Acq On : 16 Sep 1999 6:38 pm Operator: RickW
Sample : ICV 400ppb Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:06 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
) S a,a,a-TFT	15.46	15.46	72771	478673	18.957	20.135
Spiked Amount 20.000			Recovery	=	94.79%	100.68%
) S BFB	24.54	24.54	231514	349492	19.971	19.907m
Spiked Amount 20.000			Recovery	=	99.86%	99.54%
Target Compounds						
) TPH-GRO	23.00	23.00	1491003	6982099	336.091	362.414

000123

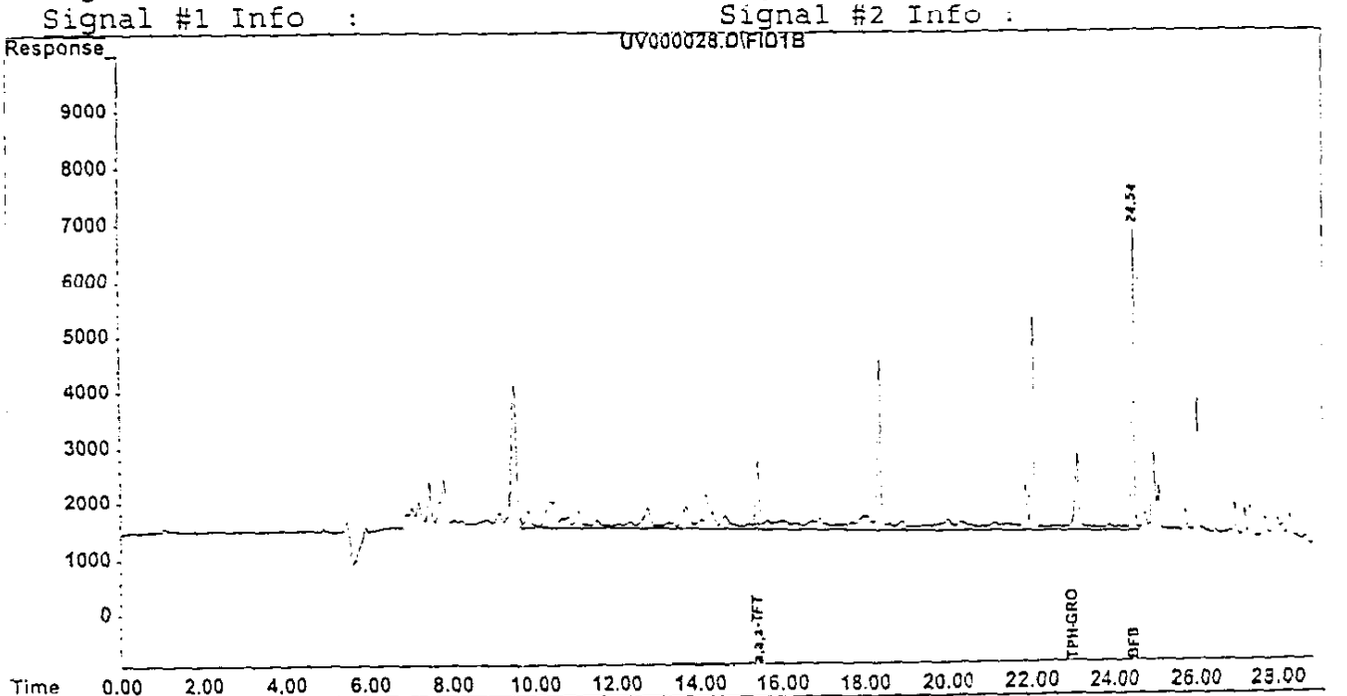
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

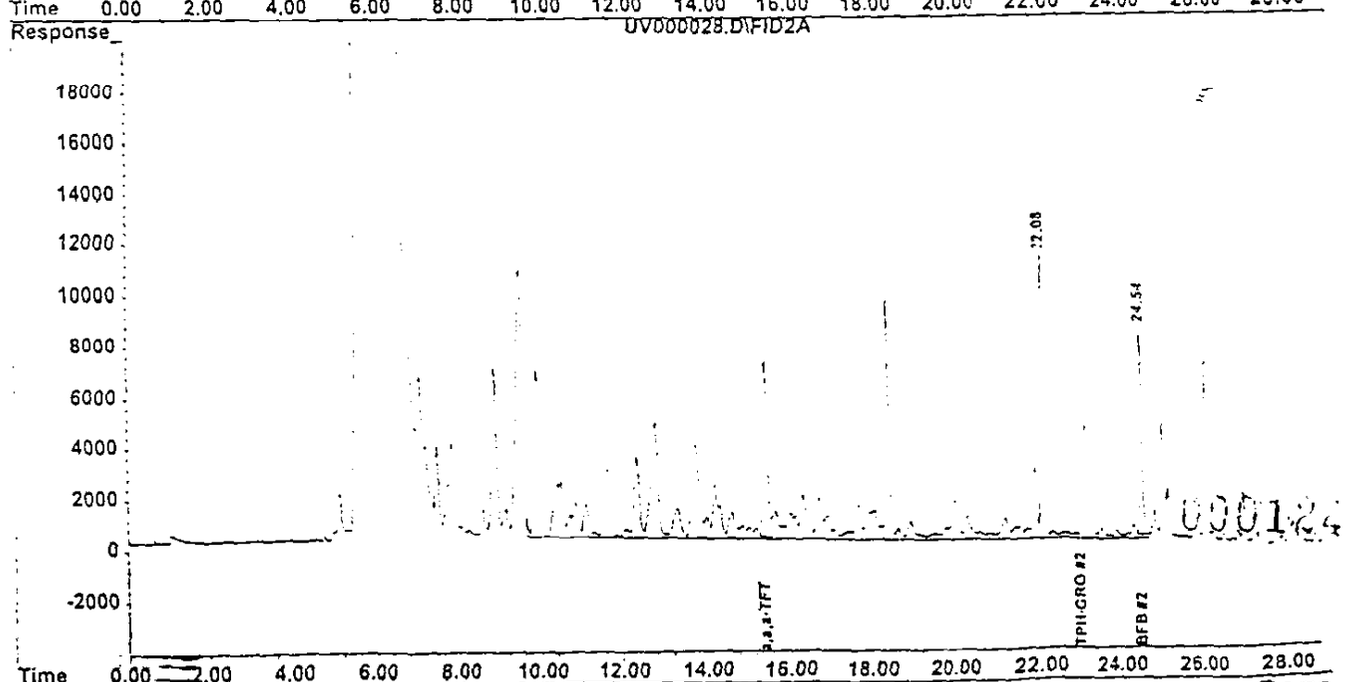
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\091699\UV000028.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\091699\UV000028.D\FID2A.CH
Acq On : 16 Sep 1999 6:38 pm Operator: RickW
Sample : ICV 400ppb Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 11:06 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





000124

CONTINUING CALIBRATION SUMMARY

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000095.D\FID1B.CH Vial: 10
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000095.D\FID2A.CH
Acq On : 27 Sep 1999 9:14 am Operator: RickW
Sample : C6-C10 alkanes Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 9:48 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 23 10:13:38 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

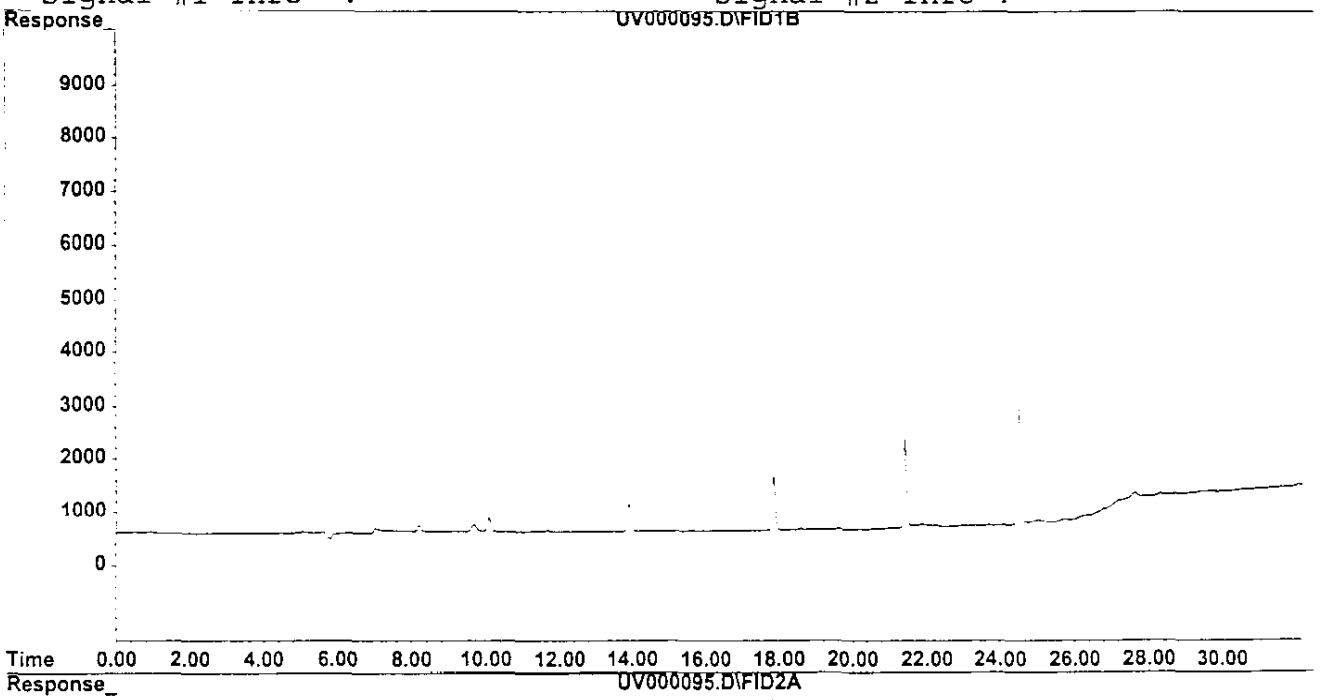
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	0.00	0	N.D. ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	0.00%#
2) S BFB	0.00	0	N.D. ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	0.00%#
4) S a,a,a-TFT #2	0.00	0	N.D. ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	0.00%#
5) S BFB #2	0.00	0	N.D. ug/L d
Spiked Amount 20.000	Range 75 - 125	Recovery =	0.00%#
Target Compounds			
6) H TPH-GRO (C6-C10)	23.00	17323531	1001.448 ug/L

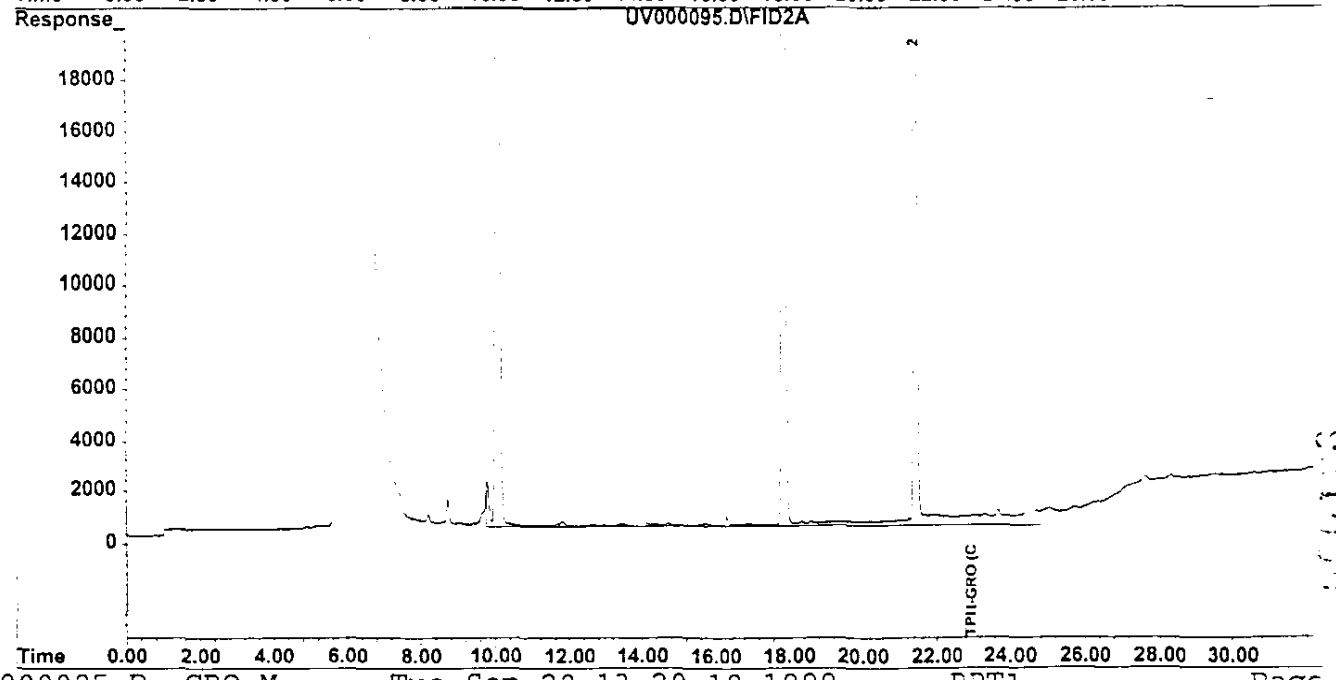
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000095.D\FID1B.CH Vial: 10
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000095.D\FID2A.CH
Acq On : 27 Sep 1999 9:14 am Operator: RickW
Sample : C6-C10 alkanes Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 9:48 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Thu Sep 23 10:13:38 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID1B.CH Vial: 11
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID2A.CH
Acq On : 27 Sep 1999 10:33 am Operator: RickW
Sample : 400ppb CCV Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 11:09 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Mon Sep 27 11:09:01 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	15.62	76350	19.890 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	99.45%
2) S BFB	24.71	221197	19.081 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	95.41%
4) S a,a,a-TFT #2	15.62	492966	20.736 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	103.68%
5) S BFB #2	24.71	349910	19.930 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	99.65%
Target Compounds			
6) H TPH-GRO (C6-C10)	23.00	7670261	404.938 ug/L

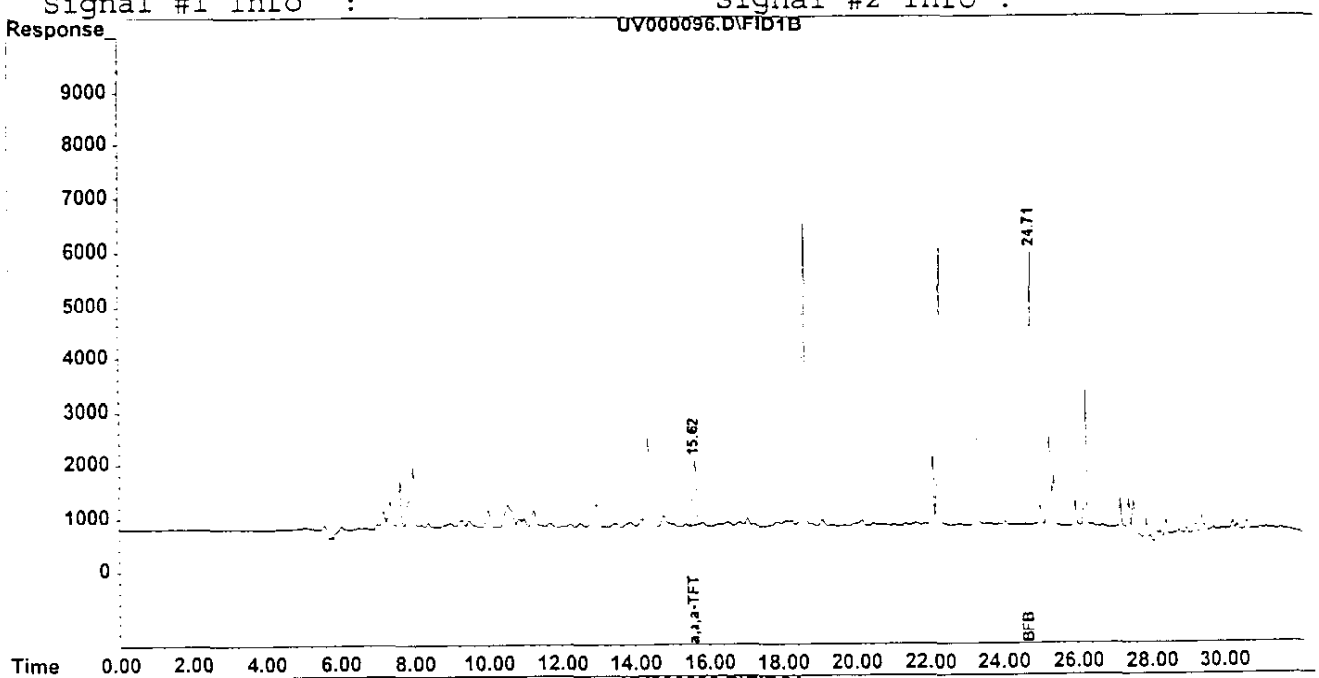
(f)=RT Delta > 1/2 Window (m)=manual int.

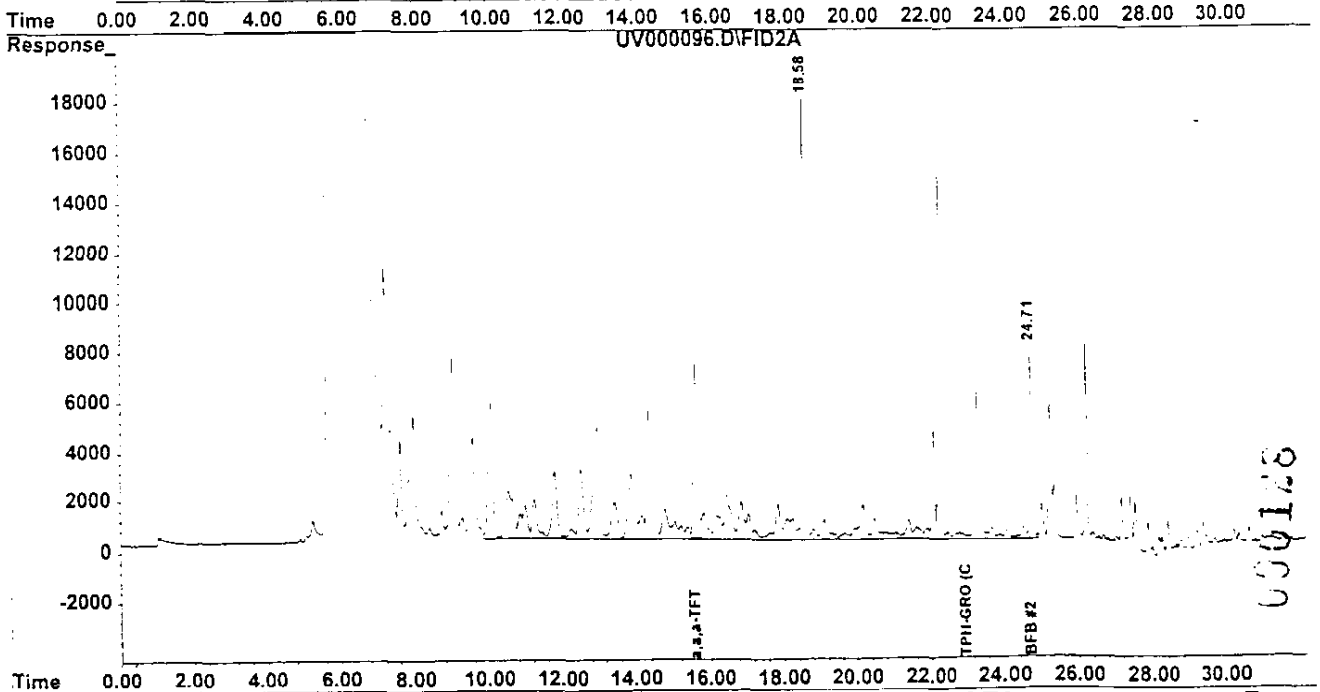
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID1B.CH Vial: 11
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID2A.CH
Acq On : 27 Sep 1999 10:33 am Operator: RickW
Sample : 400ppb CCV Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 11:09 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Mon Sep 27 11:09:01 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID1B.CH Vial: 11
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID2A.CH
Acq On : 27 Sep 1999 10:33 am Operator: RickW
Sample : 400ppb CCV Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	a,a,a-TFT	20.000	19.890	0.5	101	0.00
2	S	BFB	20.000	19.081	4.6	94	0.00
		Signal #2					
4	S	a,a,a-TFT #2	20.000	20.736	-3.7	106	0.00
5	S	BFB #2	20.000	19.930	0.4	97	0.00
6	H	TPH-GRO (C6-C10)	400.000	404.938	-1.2	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report - Not Founds

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID1B.CH Vial: 11
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000096.D\FID2A.CH
Acq On : 27 Sep 1999 10:33 am Operator: RickW
Sample : 400ppb CCV Inst : VOA4
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

Signal #2

000150

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID2A.CH
Acq On : 27 Sep 1999 5:46 pm Operator: RickW
Sample : CCV Inst : VOA4
Misc : gc663,guv2,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:10 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Initial Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

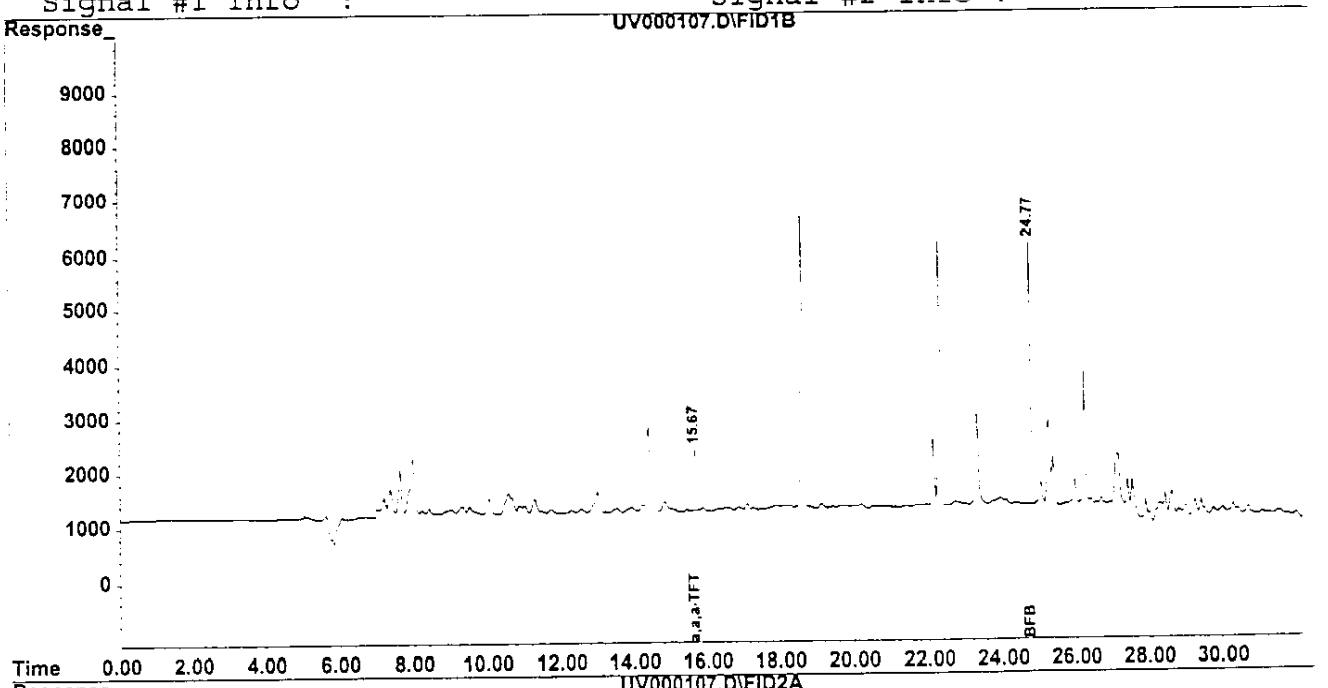
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S a,a,a-TFT	15.67	71256	18.563 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	92.82%
2) S BFB	24.77	208426	17.980 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	89.90%
4) S a,a,a-TFT #2	15.67	470458	19.789 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	98.95%
5) S BFB #2	24.77	370039	21.077 ug/L
Spiked Amount 20.000	Range 75 - 125	Recovery =	105.39%
Target Compounds			
6) H TPH-GRO (C6-C10)	23.00	7434182	390.350 ug/L

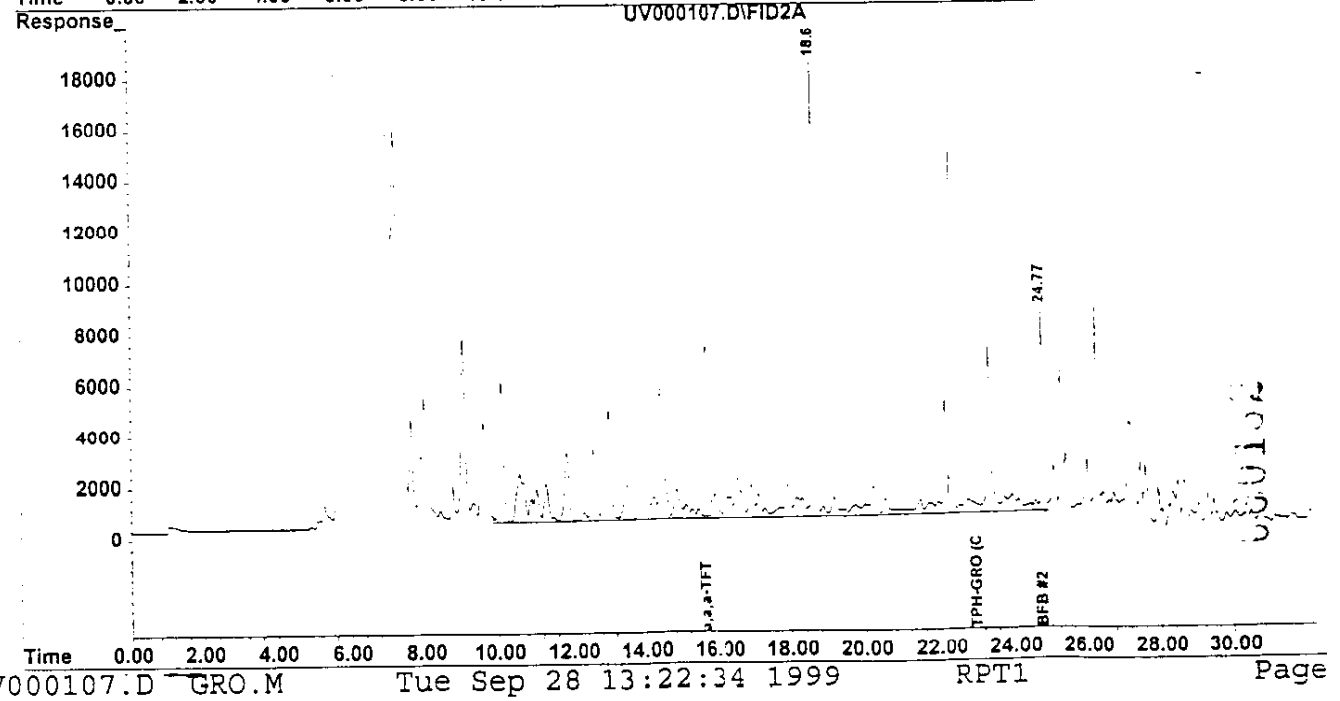
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID2A.CH
Acq On : 27 Sep 1999 5:46 pm Operator: RickW
Sample : CCV Inst : VOA4
Misc : gc663,guv2,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:10 1999 Quant Results File: GRO.RES

Quant Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration
DataAcq Meth : GRO.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID2A.CH
Acq On : 27 Sep 1999 5:46 pm Operator: RickW
Sample : CCV Inst : VOA4
Misc : gc663,guv2,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	a,a,a-TFT	20.000	18.563	7.2	94	0.05
2	S	BFB	20.000	17.980	10.1	89	0.06
		Signal #2					
4	S	a,a,a-TFT #2	20.000	19.789	1.1	101	0.05
5	S	BFB #2	20.000	21.077	-5.4	102	0.06
6	H	TPH-GRO (C6-C10)	400.000	390.350	2.4	97	0.00

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\092799\UV000107.D\FID2A.CH
Acq On : 27 Sep 1999 5:46 pm Operator: RickW
Sample : CCV Inst : VOA4
Misc : gc663,guv2,,,,, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)
Title : EPA 8015B Gasoline Range Organics
Last Update : Fri Sep 17 10:55:16 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	a,a,a-TFT	20.000	18.563	7.2	94	0.05
2	S	BFB	20.000	17.980	10.1	89	0.06
		Signal #2					
4	S	a,a,a-TFT #2	20.000	19.789	1.1	101	0.05
5	S	BFB #2	20.000	21.077	-5.4	102	0.06
6	H	TPH-GRO (C6-C10)	400.000	390.350	2.4	97	0.00

SEQUENCE LOG SUMMARY

VGC.07

Sequence Name: C:\HPCHEM\2\OLDDATA\091699.S
Comment:
Operator: RickW
Data Path: C:\HPCHEM\2\DATA\091699\
Pre-Seq Cmd:
ost-Seq Cmd:

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	DailyCal	16	UV000021	GRO	C6-C10 alkanes
2	Calibration	1	UV000022	GRO	100ppb STD
3	Calibration	2	UV000023	GRO	200ppb STD
4	Calibration	3	UV000024	GRO	400ppb STD
5	Calibration	4	UV000025	GRO	600ppb STD
6	Calibration	5	UV000026	GRO	800ppb STD
7	Calibration	6	UV000027	GRO	1000ppb STD
8	Calibration	7	UV000028	GRO	ICV 400ppb
9	Blank	8	UV000029	GRO	MB
10	Sample	9	UV000030	GRO	MDL 1
11	Sample	10	UV000031	GRO	MDL 2
12	Sample	11	UV000032	GRO	MDL 3
13	Sample	12	UV000033	GRO	MDL 4
14	Sample	13	UV000034	GRO	MDL 5
15	Sample	14	UV000035	GRO	MDL 6
16	Sample	15	UV000036	GRO	MDL 7
17	DailyCal	16	UV000037	GRO	CCV
18					

GC Analysis Log

Date: 9-16-99 Analyst's Signature: [illegible]

Analysis Method: 8015 Column: RTX 502.2 Detector: PID/FID

Method File: GPO Instrument: UV Calibration Date: 9-17-99

Data File	Sample ID	Sample Amount	Matrix	PH	ALS #	Dil.	Comments
UV000021	C6-C10				16		25ml V1167
22	100 ppb	5ml	W		1	1	5ml V1165
23	200				2		10
24	400				3		20
25	600				4		30
26	800				5		40
27	1000				6		50
28	ICV 400				7		20ml V1166
29	MB	100ml	S		8	50	10ml V1143
30	MDL 1				9		✓
31	2				10		✓
32	3				11		✓
33	4				12		✓
34	5				13		✓
35	6				14		✓
36	7				15		✓
37	CCV	5ml	W		16		20ml V1165

Note:

Matrix: Designate W for water, S for soil, and O for oil.

Sample amount: Initial sample weight (g) or volume (ml) / Final volume.

Sequence Name: C:\HPCHEM\2\SEQUENCE\092799.S
Comment:
Operator: RickW
Data Path: C:\HPCHEM\2\DATA\092799\
Pre-Seq Cmd:
Post-Seq Cmd:

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	DailyCal	10	UV000095	GRO	C6-C10 alkanes
2	DailyCal	11	UV000096	GRO	400ppb CCV
3	Blank	12	UV000097	GRO	MB
4	Sample	13	UV000098	GRO	F4929-1,5ml
5	Sample	14	UV000099	GRO	F4928-1,5ml
6	Sample	15	UV000100	GRO	F4928-2,5ml
7	Sample	16	UV000101	GRO	F4928-8,5ml
8	Sample	1	UV000102	GRO	F4941-1,5ml
9	Sample	2	UV000103	GRO	F4936-2,5ml
10	Sample	3	UV000104	GRO	F4936-3,5ml
11	Sample	4	UV000105	GRO	F4936-6,5ml
12	Blank	5	UV000106	GRO	MB,5g/5ml-100ul
13	DailyCal	6	UV000107	GRO	CCV
14	Sample	7	UV000108	GRO	F4928-3,5.64g/5ml-100ul
15	Sample	8	UV000109	GRO	F4928-4,6.39g/5ml-100ul
16	Sample	9	UV000110	GRO	F4928-5,5.69g/5ml-100ul
17	Sample	10	UV000111	GRO	F4928-6,5.93g/5ml-12.5ul
18	Sample	11	UV000112	GRO	F4928-7,6.30g/5ml-100ul
19	Sample	12	UV000113	GRO	F4936-1,5.10g/5ml-100ul
20	Sample	13	UV000114	GRO	F4936-4,5.74g/5ml-100ul
21	Sample	14	UV000115	GRO	F4936-5,6.17g/5ml-100ul
22	DailyCal	15	UV000116	GRO	CCV

M

GC Analysis Log

[illegible]-99

[illegible] 8015B

[illegible] GRO

Analyst's Signature: [signature]

Column: RTX 502.2 Detector: PID/FID

Instrument: UV Calibration Date: 9-16-99

[illegible]	Sample ID	Sample Amount	Matrix	PH	ALS #	Dil.	Comments	
[illegible]	C6-C10	5ml	W	7	10	1	25ul V1167	
[illegible]	CCV			7	11		20ul V1165	
[illegible]	MB			7	12		10ul V1190	
[illegible]	F4929-1			5	13		PH! ND	GC662, GUV1
[illegible]	F4928-1			6	14		PH! ND	
[illegible]	-2			5	15		PH! ND	
[illegible]	-8			1.5	16		ND	
[illegible]	F4941-1			1.5	1		ND	
103	F4936-2			6	2		PH! ND	
104	-3			3	3		PH! ND	
105	-6			1.5	4		ND	
106	MB	100ul	S		5	50	ND	
107	CCV	5ml	W	7	6	1	✓	
108	F4928-3	100ul	S		7	50	ND	GC663, GUV2
109	-4	100ul			8	50	ND	
110	-5	100ul			9	50	ND	
111	-6	12.5ul			10	400	✓	
112	-7	100ul			11	50	ND	
113	F4936-1	100ul			12	50	ND	
114	-4	100ul			13	50	ND	
115	-5	100ul			14	50	ND	
116	CCV	5ml	W	7	15	1	✓	

[illegible]

[illegible]er, S for soil, and O for oil.

[illegible] weight (g) or volume (ml) / Final volume.

SAMPLE RESULT SUMMARY

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 3510C/8081A	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST00707.D	1	09/27/99	SKW	09/27/99	OP956	GST28
Run #2							

Pesticide TCL List

CAS No.	Compound	Result	RDL	Units	Q
309-00-2	Aldrin	ND	0.050	ug/l	
319-84-6	alpha-BHC	ND	0.050	ug/l	
319-85-7	beta-BHC	ND	0.050	ug/l	
319-86-8	delta-BHC	ND	0.050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	ug/l	
5103-71-9	alpha-Chlordane	ND	0.10	ug/l	
5103-74-2	gamma-Chlordane	ND	0.10	ug/l	
60-57-1	Dieldrin	ND	0.050	ug/l	
72-54-8	4,4'-DDD	ND	0.10	ug/l	
72-55-9	4,4'-DDE	ND	0.10	ug/l	
50-29-3	4,4'-DDT	ND	0.10	ug/l	
72-20-8	Endrin	ND	0.10	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	ug/l	
53494-70-5	Endrin ketone	ND	0.10	ug/l	
959-98-8	Endosulfan-I	ND	0.050	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	ug/l	
76-44-8	Heptachlor	ND	0.050	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	ug/l	
72-43-5	Methoxychlor	ND	0.20	ug/l	
8001-35-2	Toxaphene	ND	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		30-160%
2051-24-3	Decachlorobiphenyl	67%		30-160%

000139

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

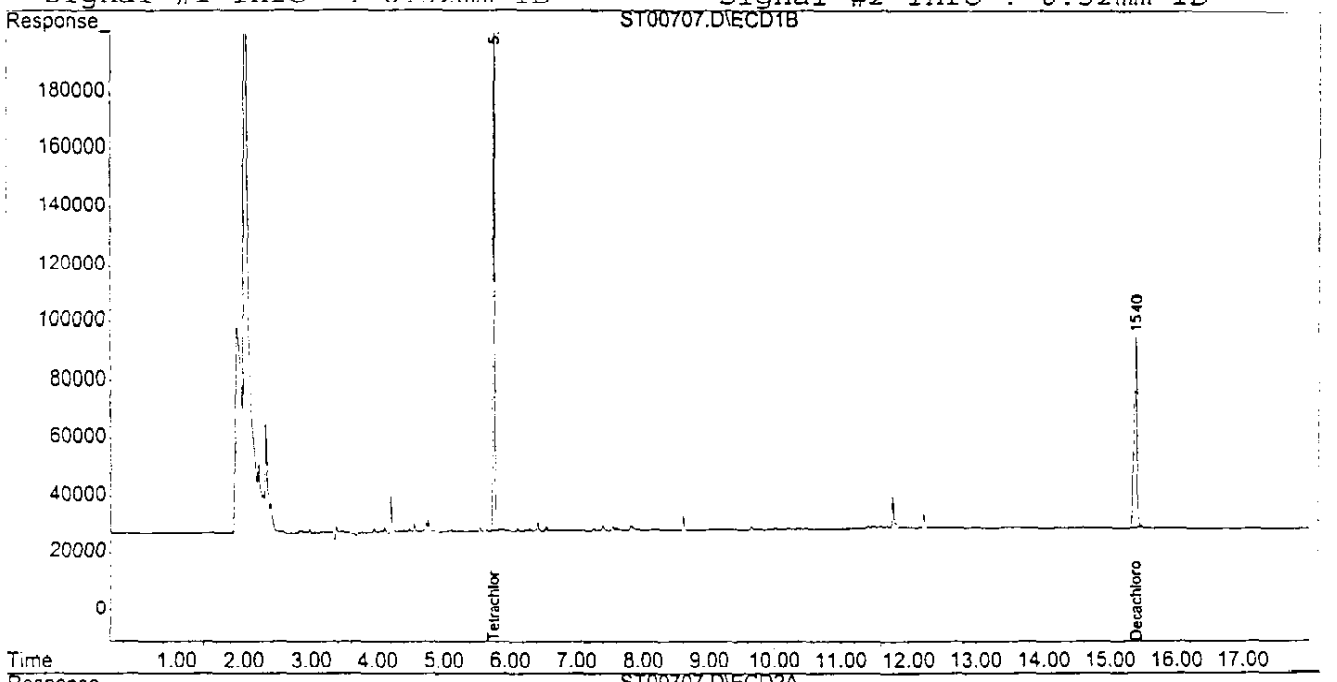
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

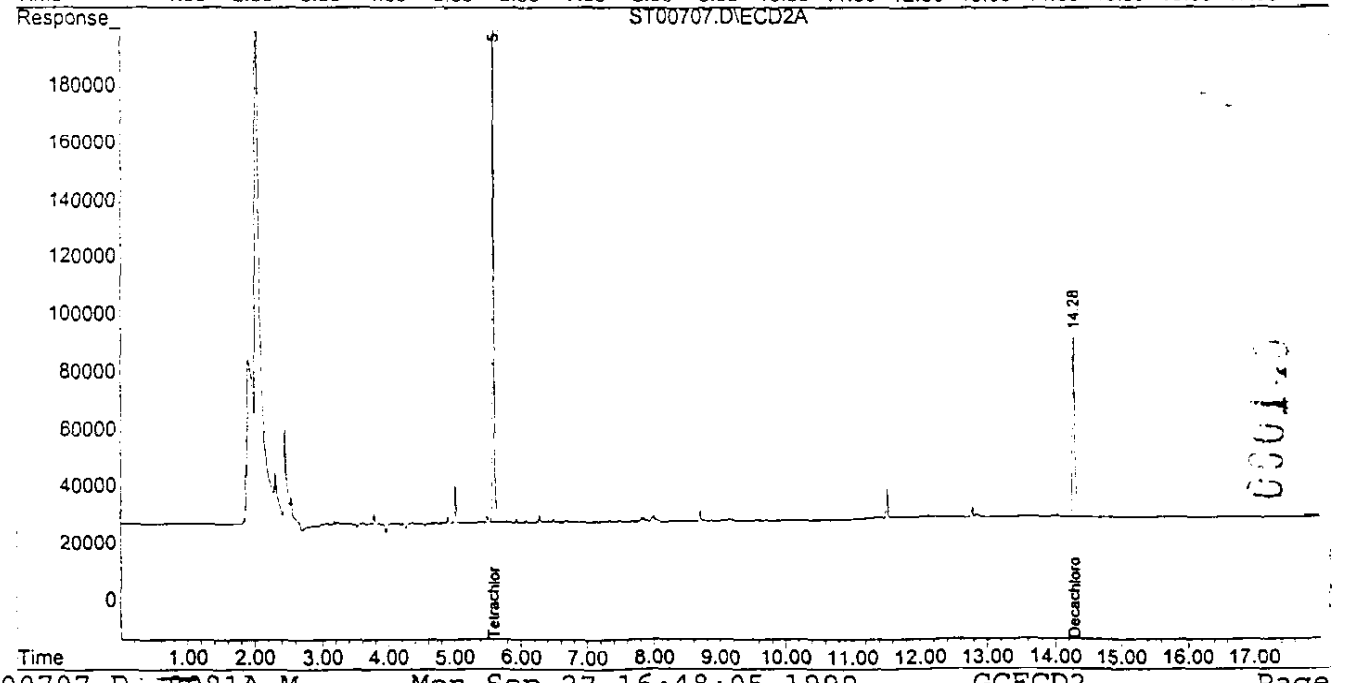
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00707.D\ECD1B.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00707.D\ECD2A.CH
Acq On : 9-27-99 4:08:59 PM Operator: stephw
Sample : F4941-1 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 16:47 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00707.D\ECD1B.CH Vial: 14
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00707.D\ECD2A.CH
Acq On : 9-27-99 4:08:59 PM Operator: stephw
Sample : F4941-1 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 16:47 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.75	5.60	243447	202535	38.572	37.743
Spiked Amount 50.000 Range 30 - 160 Recovery =					77.14%	75.49%
29) SC Decachlorobiphen	15.40	14.28	65567	63253	33.470	32.210
Spiked Amount 50.000 Range 30 - 160 Recovery =					66.94%	64.42%
Target Compounds						
Sum Chlordane-A			0	0	N.D.	N.D.
A age Chlordane-A					0.000	0.000

SURROGATE RECOVERIES SUMMARY

SGC.02

Semivolatile Surrogate Recovery Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Method: SW846 3510C/8081A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]
F4941-1	ST00707.D	77.0	67.0
OP956-BS5	ST00705.D	64.0	72.0
OP956-MB5	ST00704.D	70.0	41.0
OP956-MS	ST00306.D	78.0	64.0
OP956-MSD	ST00307.D	78.0	61.0
OP956-MB	ST00296.D	79.0	77.0

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	30-160%
S2 = Decachlorobiphenyl	30-160%

(a) Recovery from GC signal #1

MATRIX SPIKE/ MATRIX SPIKE DUPLICATE/ BLANK SPIKE SUMMARY

Blank Spike Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP956-BS5	ST00705.D	1	09/27/99	SKW	09/27/99	OP956	GST28

The QC reported here applies to the following samples: **Method:** SW846 3510C/8081A

F4941-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.5	0.38	76	34-132
319-84-6	alpha-BHC	0.5	0.46	92	39-132
319-85-7	beta-BHC	0.5	0.44	88	28-151
319-86-8	delta-BHC	0.5	0.34	68	16-137
58-89-9	gamma-BHC (Lindane)	0.5	0.48	96	31-127
5103-71-9	alpha-Chlordane	0.5	0.46	92	45-128
5103-74-2	gamma-Chlordane	0.5	0.46	92	45-128
60-57-1	Dieldrin	0.5	0.46	92	43-139
72-54-8	4,4'-DDD	0.5	0.50	100	35-138
72-55-9	4,4'-DDE	0.5	0.48	96	45-139
50-29-3	4,4'-DDT	0.5	0.43	86	33-149
72-20-8	Endrin	0.5	0.46	92	35-151
1031-07-8	Endosulfan sulfate	0.5	0.44	88	26-140
7421-93-4	Endrin aldehyde	0.5	0.050	10	10-141
53494-70-5	Endrin ketone	0.5	0.48	96	35-141
959-98-8	Endosulfan-I	0.5	0.47	94	55-143
33213-65-9	Endosulfan-II	0.5	0.49	98	35-186
76-44-8	Heptachlor	0.5	0.40	80	31-125
1024-57-3	Heptachlor epoxide	0.5	0.47	94	69-129
72-43-5	Methoxychlor	0.5	0.45	90	40-138

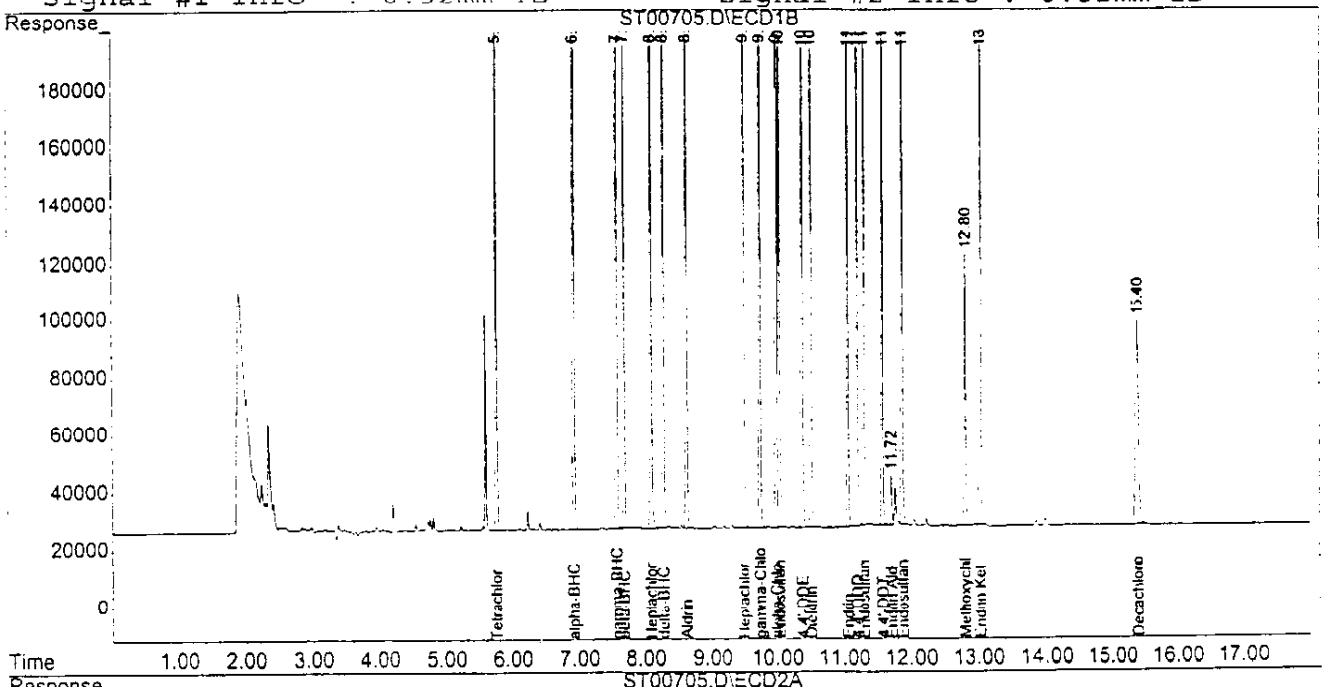
CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	64%	30-160%
2051-24-3	Decachlorobiphenyl	72%	30-160%

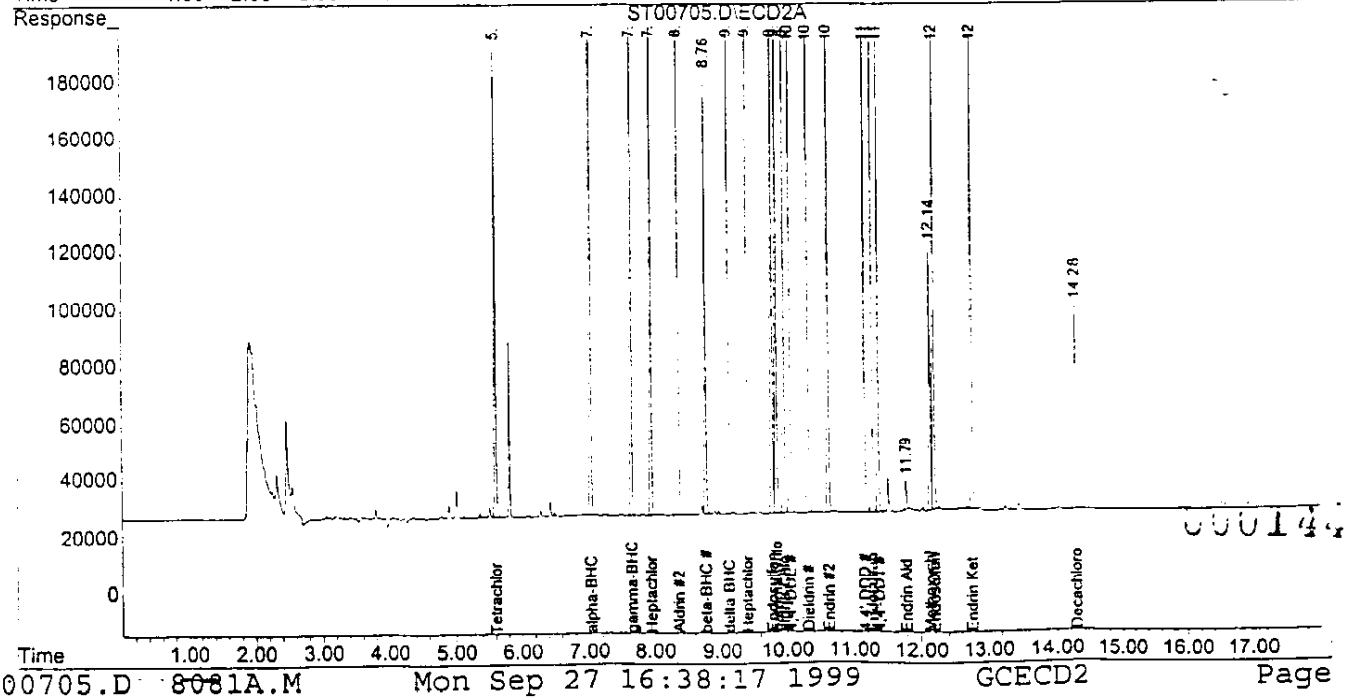
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00705.D\ECD1B.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00705.D\ECD2A.CH
Acq On : 9-27-99 3:26:33 PM Operator: stephw
Sample : op956-bs5 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 16:24 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00705.D\ECD1B.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00705.D\ECD2A.CH
Acq On : 9-27-99 3:26:33 PM Operator: stephw
Sample : op956-bs5 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 16:24 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.75	5.60	203310	164244	32.212	30.608
	Spiked Amount 50.000 Range 30 - 160 Recovery =					64.42%	61.22%
29)	SC Decachlorobiphen	15.40	14.28	70999	71942	36.242	36.635
	Spiked Amount 50.000 Range 30 - 160 Recovery =					72.48%	73.27%
	Target Compounds						
2)	alpha-BHC	6.92	7.03	486511	387491	46.511	46.784
	gamma-BHC (Linda	7.56	7.65	433657	353102	48.394	46.373
4)	beta-BHC	7.68	8.76	175363	152639	44.444	43.810
5)	Heptachlor	8.09	7.95	298515	259668	40.055	38.855
6)	delta-BHC	8.27	9.11	293711	233349	34.283	35.208
7)	Aldrin	8.61	8.35	266198	243326	37.660	38.164
8)	Heptachlor Epoxi	9.49	9.40	313085	266400	47.201	45.908
9)	gamma-Chlordane	9.74	9.85	295105	253175	46.014	46.364
10)	alpha-Chlordane	9.99	9.96	291334	251343	45.641	45.728
11)	Endosulfan I	10.04	9.79	283051	234515	47.347	45.638
12)	4,4'-DDE	10.38	10.05	295519	235776	47.660	45.951
13)	Dieldrin	10.50	10.32	295132	256726	46.500	45.964
14)	Endrin	11.06	10.62	246794	206331	46.435	44.779
15)	4,4'-DDD	11.20	11.17	262422	216291	50.443	50.009
16)	Endosulfan II	11.30	11.28	274541	232445	48.608	46.799
17)	4,4'-DDT	11.59	11.38	221760	181000	43.074	44.013
18)	Endrin Aldehyde	11.72	11.79	17422	10069	5.033	4.964
19)	Endosulfan Sulfa	11.88	12.19	220780	177150	44.251	43.366
20)	Methoxychlor	12.80	12.14	95044	93193	44.852	44.773
21)	Endrin Ketone	13.03	12.75	228383	195750	48.339	48.632
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000145

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP956-MS	ST00306.D	4	09/01/99	SKW	08/31/99	OP956	GST13
OP956-MSD	ST00307.D	4	09/01/99	SKW	08/31/99	OP956	GST13
F4801-1 [a]	ST00303.D	10	09/01/99	SKW	08/31/99	OP956	GST13

The QC reported here applies to the following samples: **Method:** SW846 3510C/8081A

F4941-1

CAS No.	Compound	F4801-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.5	0.54	108	0.51	102	6	34-132/20
319-84-6	alpha-BHC	ND		0.5	0.46	92	0.44	88	4	39-132/23
319-85-7	beta-BHC	ND		0.5	0.57	114	0.54	108	5	28-151/28
319-86-8	delta-BHC	ND		0.5	0.46	92	0.44	88	4	16-137/27
58-89-9	gamma-BHC (Lindane)	ND		0.5	0.47	94	0.45	90	4	31-127/24
5103-71-9	alpha-Chlordane	ND		0.5	0.68	136*	0.64	128	6	45-128/18
5103-74-2	gamma-Chlordane	ND		0.5	0.88	176*	0.83	166*	6	45-128/18
60-57-1	Dieldrin	ND		0.5	0.53	106	0.49	98	8	43-139/24
72-54-8	4,4'-DDD	ND		0.5	0.56	112	0.53	106	6	35-138/26
72-55-9	4,4'-DDE	ND		0.5	0.60	120	0.58	116	3	45-139/24
50-29-3	4,4'-DDT	ND		0.5	0.51	102	0.49	98	4	33-149/29
72-20-8	Endrin	ND		0.5	0.46	92	0.44	88	4	35-151/27
1031-07-8	Endosulfan sulfate	ND		0.5	0.61	122	0.58	116	5	26-140/28
7421-93-4	Endrin aldehyde	ND		0.5	0.27	54	0.26	52	4	10-141/27
53494-70-5	Endrin ketone	ND		0.5	0.54	108	0.51	102	6	35-141/27
959-98-8	Endosulfan-I	ND		0.5	0.57	114	0.54	108	5	55-143/22
33213-65-9	Endosulfan-II	ND		0.5	0.51	102	0.49	98	4	35-186/45
76-44-8	Heptachlor	ND		0.5	0.47	94	0.46	92	2	31-125/20
1024-57-3	Heptachlor epoxide	ND		0.5	0.62	124	0.59	118	5	69-129/13
72-43-5	Methoxychlor	ND		0.5	0.50	100	0.47	94	6	40-138/25

CAS No.	Surrogate Recoveries	MS	MSD	F4801-1	Limits
877-09-8	Tetrachloro-m-xylene	78%	78%	99%	30-160%
2051-24-3	Decachlorobiphenyl	64%	61%	54%	30-160%

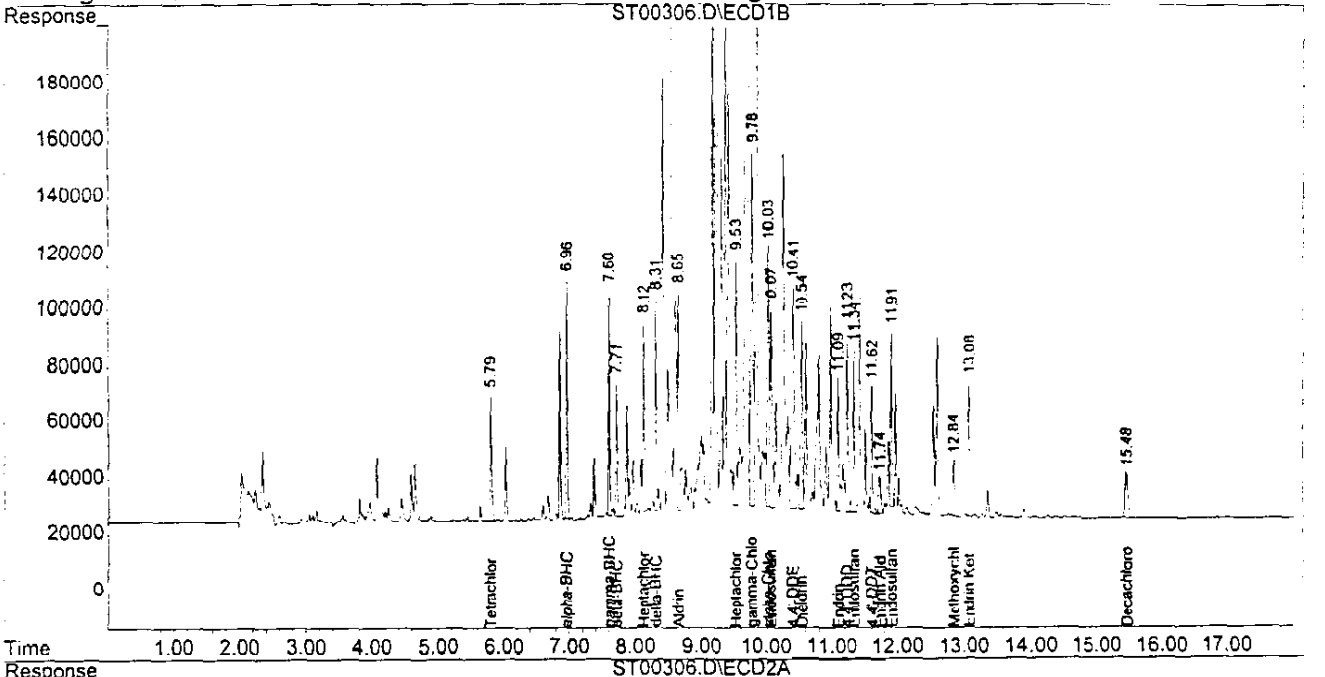
(a) Dilution required due to matrix interference.

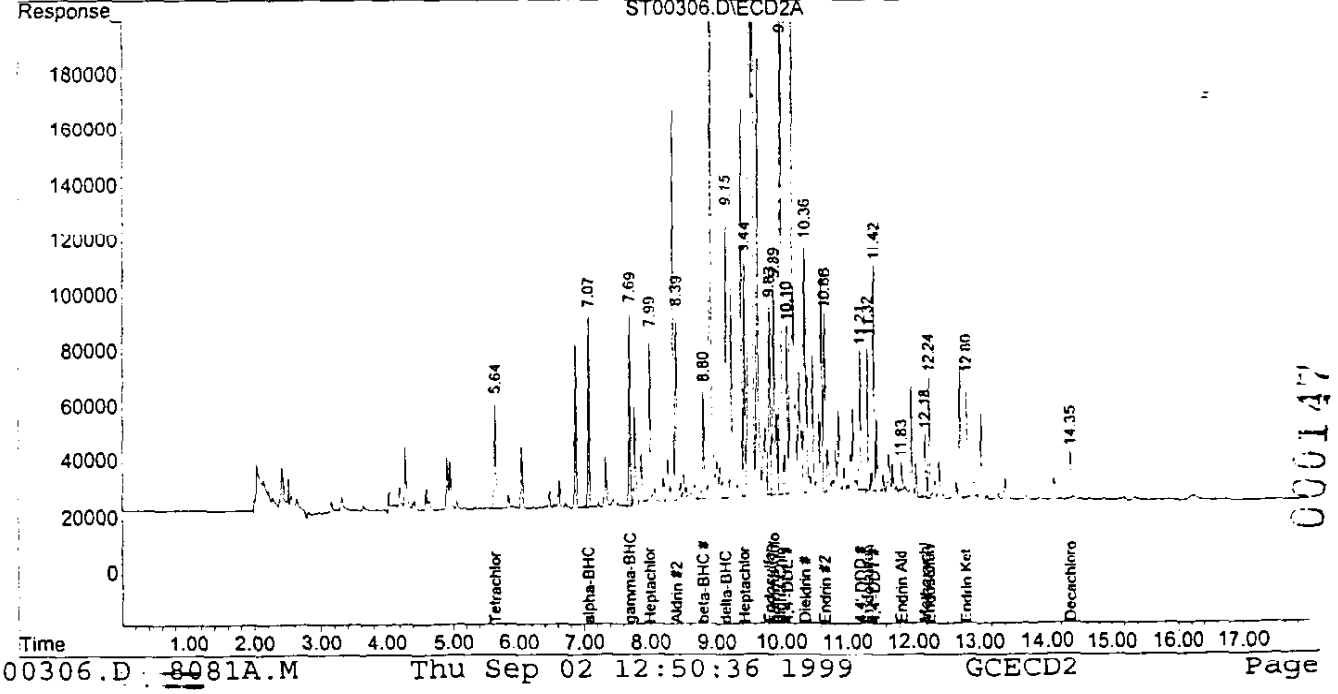
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0901PEST\ST00306.D\ECD1B.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\0901PEST\ST00306.D\ECD2A.CH
Acq On : 9-1-99 3:51:26 PM Operator: stephw
Sample : op956-ms,4x Inst : ECD 3
Misc : op956,gst13,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 2 12:31 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Wed Sep 01 13:46:30 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0901PEST\ST00306.D\ECD1B.CH Vial: 21
Signal #2 : C:\HPCHEM\1\DATA\0901PEST\ST00306.D\ECD2A.CH
Acq On : 9-1-99 3:51:26 PM Operator: stephw
Sample : op956-ms,4x Inst : ECD 3
Misc : op956,gst13,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 2 12:31 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Wed Sep 01 13:46:30 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	5.79	5.64	44632	38061	9.745	9.863	
	Spiked Amount 50.000 Range 30 - 160 Recovery =					19.49%#	19.73%#	
29)	SC Decachlorobiphen	15.48	14.35	16617	17529	8.009	8.001	
	Spiked Amount 50.000 Range 30 - 160 Recovery =					16.02%#	16.00%#	
	Target Compounds							
3)	alpha-BHC	6.96	7.07	85033	68506	11.616	11.433	
	gamma-BHC (Linda	7.60	7.69	79929	69713	11.764	11.859	
4)	beta-BHC	7.71	8.80	47516	39203	14.371	13.657	
5)	Heptachlor	8.12	8.00	67033	58835	11.783	11.498	
6)	delta-BHC	8.31	9.15	75554	102594	11.401	17.082	#
7)	Aldrin	8.65	8.39	77885	66830	13.475	12.834	
8)	Heptachlor Epoxi	9.53	9.44	88166	85675	15.581	16.897	
9)	gamma-Chlordane	9.78	9.90	125614	75081	22.120	15.819	#
10)	alpha-Chlordane	10.03	9.99	93835	225254	17.145	42.890	#
11)	Endosulfan I	10.07	9.83	70028	68151	14.351	15.169	
12)	4,4'-DDE	10.41	10.10	80594	61234	15.142	13.981	
13)	Dieldrin	10.54	10.36	68024	91001	13.221	18.213	#
14)	Endrin	11.09	10.66	48107	64682	11.391	15.335	#
15)	4,4'-DDD	11.23	11.21	66354	51097	14.039	12.590	
16)	Endosulfan II	11.34	11.32	59066	54458	12.860	13.134	
17)	4,4'-DDT	11.62	11.42	45955	81637	12.833	21.949	#
18)	Endrin Aldehyde	11.74	11.83	13595	10103	6.724	8.063	
19)	Endosulfan Sulfa	11.91	12.24	62907	43896	15.286	12.803	
20)	Methoxychlor	12.84	12.18	20520	23260	12.489	12.917	
21)	Endrin Ketone	13.08	12.80	49068	43695	13.476	13.214	
	Sum Chlordane-A			0	0	N.D.	N.D.	
	Average Chlordane-A					0.000	0.000	

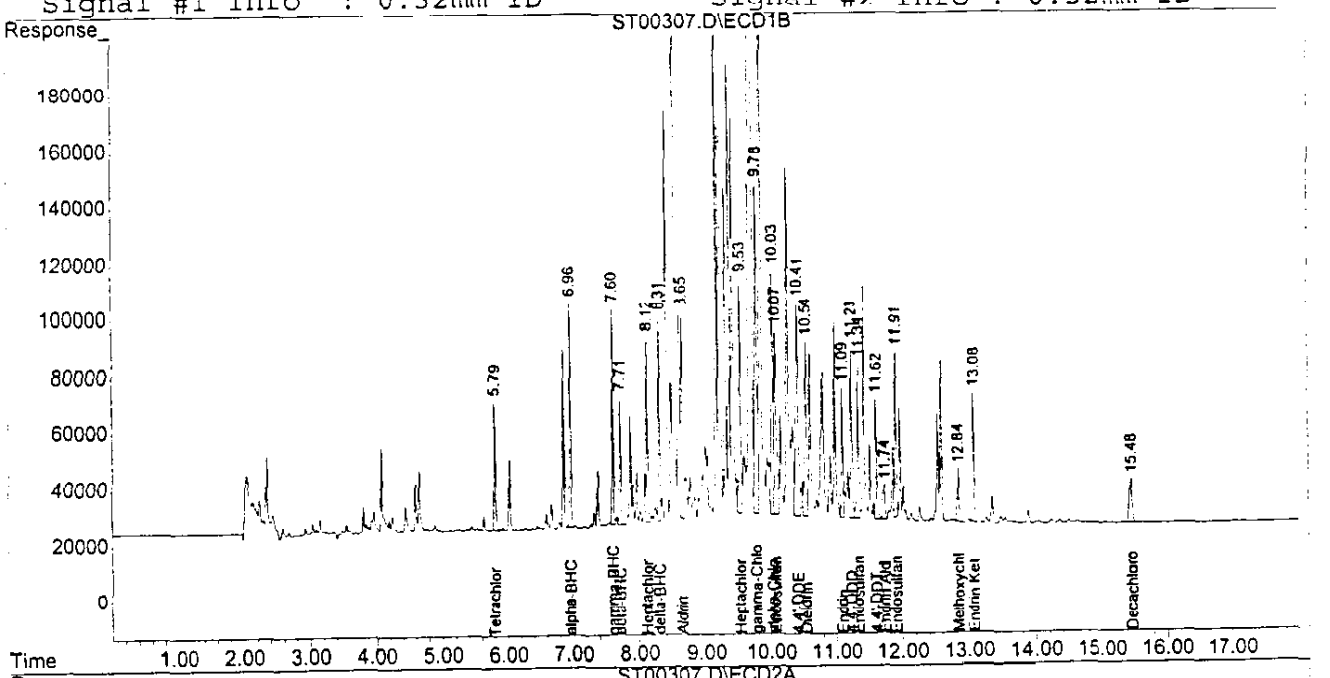
(f)=RT Delta-> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

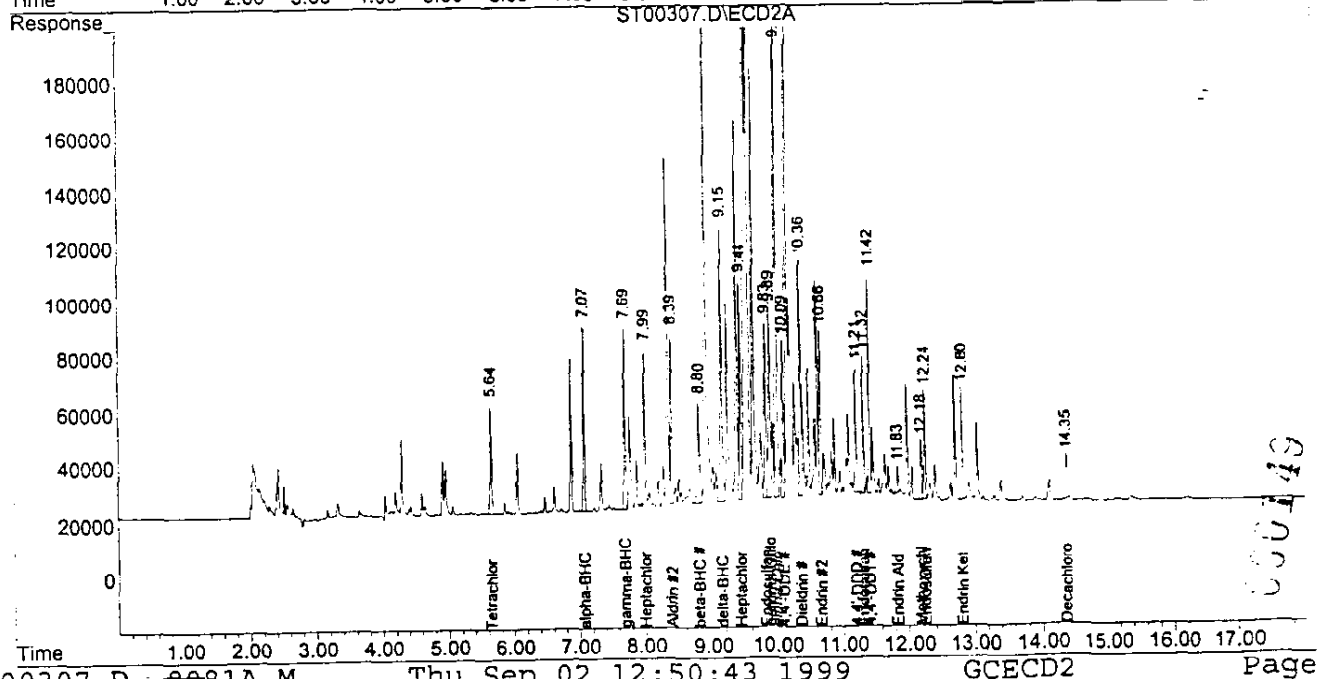
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0901PEST\ST00307.D\ECD1B.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\0901PEST\ST00307.D\ECD2A.CH
Acq On : 9-1-99 4:12:36 PM Operator: stephw
Sample : op956-msd,4x Inst : ECD 3
Misc : op956,gst13,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 2 12:32 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Wed Sep 01 13:46:30 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0901PEST\ST00307.D\ECD1B.CH Vial: 22
Signal #2 : C:\HPCHEM\1\DATA\0901PEST\ST00307.D\ECD2A.CH
Acq On : 9-1-99 4:12:36 PM Operator: stephw
Sample : op956-msd,4x Inst : ECD 3
Misc : op956,gst13,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 2 12:32 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Wed Sep 01 13:46:30 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
1)	S Tetrachloro-m-xy	5.79	5.64	44568	38845	9.733	10.035	
	Spiked Amount 50.000 Range 30 - 160 Recovery =					19.47%#	20.07%#	
29)	SC Decachlorobiphen	15.48	14.35	15849	16546	7.589	7.511	
	Spiked Amount 50.000 Range 30 - 160 Recovery =					15.18%#	15.02%#	
	Target Compounds							
	alpha-BHC	6.96	7.07	78890	66673	11.031	11.210	
	gamma-BHC (Linda	7.60	7.69	75961	65823	11.336	11.355	
4)	beta-BHC	7.71	8.80	44637	36459	13.590	12.762	
5)	Heptachlor	8.12	7.99	64181	55968	11.409	11.069	
6)	delta-BHC	8.31	9.15	71183	100027	10.940	16.733	#
7)	Aldrin	8.65	8.39	72212	61700	12.698	12.053	
8)	Heptachlor Epoxi	9.53	9.44	82761	79281	14.768	15.820	
9)	gamma-Chlordane	9.78	9.89	116514	68161	20.735	14.607	#
10)	alpha-Chlordane	10.03	9.99	87411	220276	16.134	41.989	#
11)	Endosulfan I	10.07	9.83	65283	63873	13.539	14.345	
12)	4,4'-DDE	10.41	10.09	76403	57545	14.511	13.329	
13)	Dieldrin	10.54	10.36	62170	86166	12.352	17.390	#
14)	Endrin	11.09	10.66	46620	60401	11.117	14.483	#
15)	4,4'-DDD	11.23	11.21	61851	46657	13.263	11.689	
16)	Endosulfan II	11.34	11.32	55461	50685	12.201	12.386	
17)	4,4'-DDT	11.62	11.42	43270	80566	12.302	21.700	#
18)	Endrin Aldehyde	11.74	11.83	12606	9586	6.392	7.752	
19)	Endosulfan Sulfa	11.91	12.24	58808	40068	14.430	11.853	
20)	Methoxychlor	12.84	12.18	18991	22408	11.673	12.482	
21)	Endrin Ketone	13.08	12.80	46244	41110	12.840	12.527	
	Sum Chlordane-A			0	0	N.D.	N.D.	
	Average Chlordane-A					0.000	0.000	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

METHOD BLANK SUMMARY

SGC.04

Method Blank Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP956-MB5	ST00704.D	1	09/27/99	SKW	09/27/99	OP956	GST28

The QC reported here applies to the following samples: **Method:** SW846 3510C/8081A

F4941-1

CAS No.	Compound	Result	RDL	Units	Q
309-00-2	Aldrin	ND	0.050	ug/l	
319-84-6	alpha-BHC	ND	0.050	ug/l	
319-85-7	beta-BHC	ND	0.050	ug/l	
319-86-8	delta-BHC	ND	0.050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	ug/l	
5103-71-9	alpha-Chlordane	ND	0.10	ug/l	
5103-74-2	gamma-Chlordane	ND	0.10	ug/l	
60-57-1	Dieldrin	ND	0.050	ug/l	
72-54-8	4,4'-DDD	ND	0.10	ug/l	
72-55-9	4,4'-DDE	ND	0.10	ug/l	
50-29-3	4,4'-DDT	ND	0.10	ug/l	
72-20-8	Endrin	ND	0.10	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	ug/l	
53494-70-5	Endrin ketone	ND	0.10	ug/l	
959-98-8	Endosulfan-I	ND	0.050	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	ug/l	
76-44-8	Heptachlor	ND	0.050	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	ug/l	
72-43-5	Methoxychlor	ND	0.20	ug/l	
8001-35-2	Toxaphene	ND	2.5	ug/l	

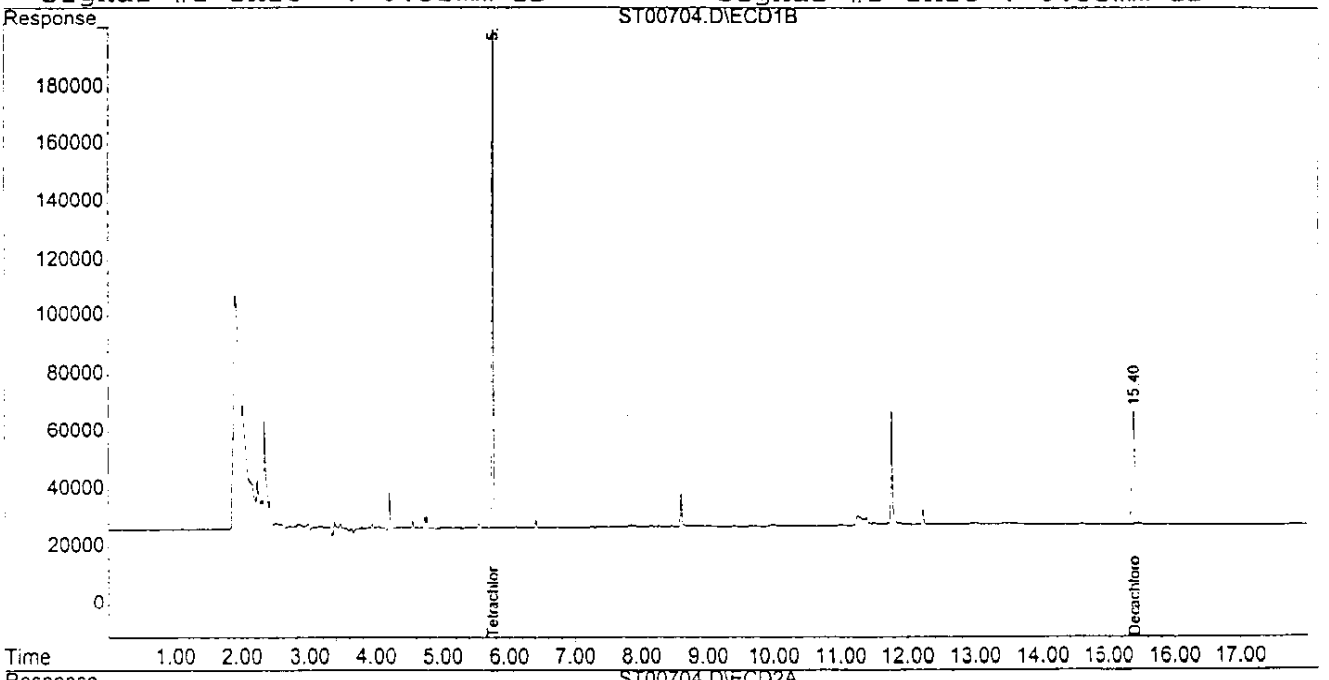
CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	70%	30-160%
2051-24-3	Decachlorobiphenyl	41%	30-160%

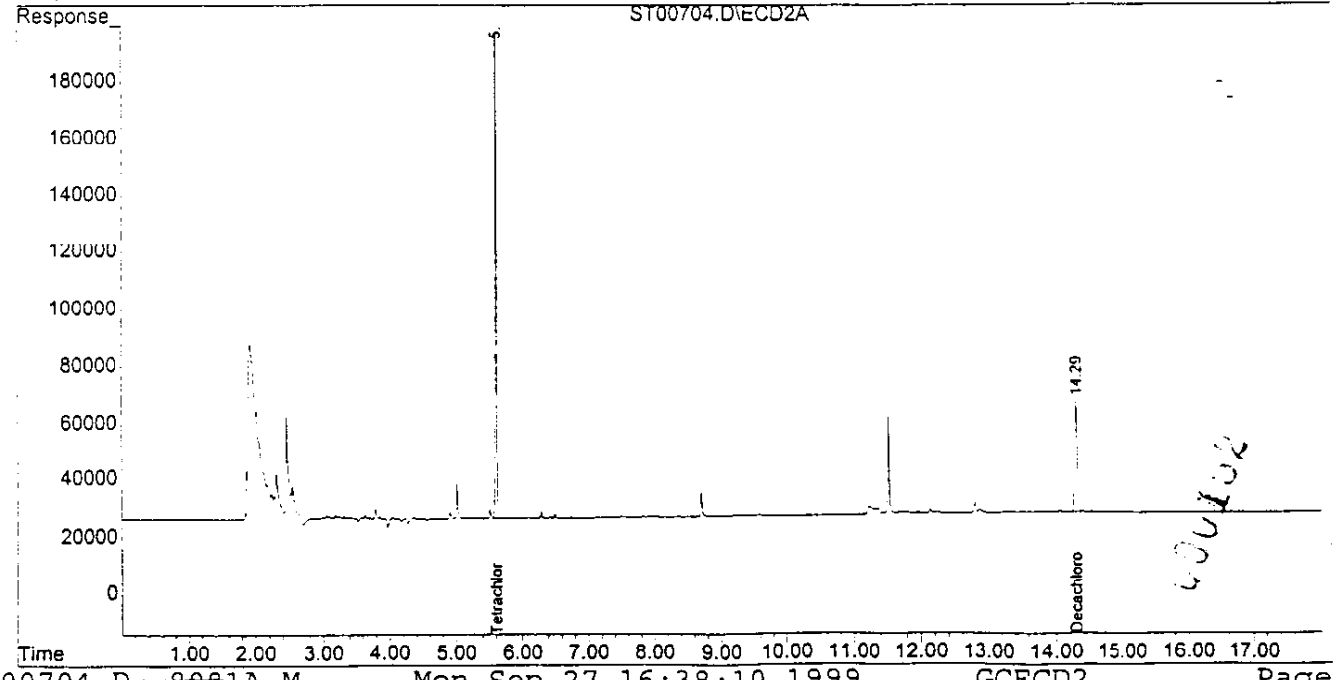
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00704.D\ECD1B.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00704.D\ECD2A.CH
Acq On : 9-27-99 3:05:25 PM Operator: stephw
Sample : op956-mb5 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 15:42 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00704.D\ECD1B.CH Vial: 11
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00704.D\ECD2A.CH
Acq On : 9-27-99 3:05:25 PM Operator: stephw
Sample : op956-mb5 Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 15:42 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.75	5.61	220319	184661	34.907	34.413
Spiked Amount 50.000 Range 30 - 160 Recovery =					69.81%	68.83%
29) SC Decachlorobiphen	15.40	14.29	39873	38912	20.354	19.815
Spiked Amount 50.000 Range 30 - 160 Recovery =					40.71%	39.63%
Target Compounds						
Sum Chlordane-A			0	0	N.D.	N.D.
A age Chlordane-A					0.000	0.000

(f)=RT Delta-> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

INITIAL CALIBRATION SUMMARY

SGC.05

Response Factor Report ECD 3

Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999

RSD <20%
SN

Calibration Files
5 =ST00697.D 10 =ST00698.D 20 =ST00699.D
40 =ST00696.D 60 =ST00700.D 80 =ST00701.D

		Compound	5	10	20	40	60	80	Avg		%RSD
1)	S	Tetrachloro-m-xylen	5.356	6.148	6.266	6.782	6.504	6.813	6.312	E3	8.53
2)		alpha-BHC		0.876	0.981	1.053	1.141	1.179	1.046	E4	11.70
3)		gamma-BHC (Lindane)	0.665	0.811	0.878	0.974	1.017	1.031	0.896	E4	15.77
4)		beta-BHC	3.527	3.920	3.922	3.990	4.168	4.148	3.946	E3	5.88
5)		Heptachlor	5.877	6.732	7.437	7.658	8.389	8.623	7.453	E3	13.80
6)		delta-BHC		6.944	7.858	8.931	9.261	9.842	8.567	E3	13.53
7)		Aldrin	5.420	6.293	7.055	7.541	8.031	8.071	7.068	E3	14.80
8)		Heptachlor Epoxide	5.412	6.101	6.593	6.803	7.429	7.460	6.633	E3	11.91
9)		gamma-Chlordane	5.090	5.765	6.319	6.792	7.068	7.445	6.413	E3	13.62
10)		alpha-Chlordane	5.403	5.918	6.436	6.525	6.991	7.026	6.383	E3	9.86
11)		Endosulfan I	4.797	5.569	6.039	6.266	6.532	6.666	5.978	E3	11.66
12)		4,4'-DDE	4.556	5.416	6.059	6.452	7.200	7.519	6.201	E3	17.87
13)		Dieldrin	4.988	5.782	6.366	6.668	7.139	7.138	6.347	E3	13.23
14)		Endrin	4.228	4.939	5.034	5.535	5.976	6.178	5.315	E3	13.65
15)		4,4'-DDD	4.173	4.649	5.286	5.337	5.751	6.017	5.202	E3	13.19
16)		Endosulfan II	4.895	5.353	5.561	5.639	6.254	6.186	5.648	E3	9.09
)		4,4'-DDT	4.131	4.722	5.164	5.207	5.928	5.737	5.148	E3	12.81
)		Endrin Aldehyde	3.048	3.283	3.463	3.489	3.693	3.793	3.461	E3	7.83
19)		Endosulfan Sulfate	4.465	4.756	5.085	4.939	5.373	5.318	4.989	E3	6.92
20)		Methoxychlor	1.951	2.075	2.236	2.030	2.255	2.167	2.119	E3	5.68
21)		Endrin Ketone	4.060	4.326	4.912	4.730	5.103	5.217	4.725	E3	9.57
22)	L1	Chlordane-A							2.532	E2	0.00
23)	L1	Chlordane-B							3.046	E2	0.00
24)	L1	Chlordane-C							7.121	E2	0.00
25)	L1	Chlordane-D							4.037	E2	0.00
26)	L1	Chlordane-E							5.619	E2	0.00
27)	L1	Chlordane-F							2.604	E2	0.00
28)	H	Toxaphene							7.564	E4	0.00
29)	SC	Decachlorobiphenyl	2.031	1.897	2.127	1.865	1.949	1.885	1.959	E3	5.19

Signal #2 Calibration Files
5 =ST00697.D 10 =ST00698.D 20 =ST00699.D
40 =ST00696.D 60 =ST00700.D 80 =ST00701.D

		Compound	5	10	20	40	60	80	Avg		%RS
1)	S	Tetrachloro-m-xylen	4.786	5.335	5.417	5.526	5.370	5.762	5.366	E3	6.0
2)		alpha-BHC	6.068	7.437	8.253	8.732	9.393	9.813	8.283	E3	16.5
3)		gamma-BHC (Lindane)	5.844	6.899	7.533	8.129	8.522	8.759	7.614	E3	14.4
4)		beta-BHC	3.176	3.507	3.509	3.440	3.643	3.629	3.484	E3	4.8
5)		Heptachlor	5.520	6.215	6.722	6.828	7.403	7.411	6.683	E3	10.8
6)		delta-BHC	4.943	5.732	6.541	6.925	7.716	7.908	6.628	E3	17.2
)		Aldrin	5.068	5.900	6.314	6.713	7.054	7.205	6.376	E3	12.5
8)		Heptachlor Epoxide	5.060	5.480	5.781	5.902	6.282	6.313	5.803	E3	8.2
9)		gamma-Chlordane	4.549	5.099	5.458	5.604	5.957	6.096	5.461	E3	10.4

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report ECD 3

Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999

Calibration Files
5 =ST00697.D 10 =ST00698.D 20 =ST00699.D
40 =ST00696.D 60 =ST00700.D 80 =ST00701.D

		Compound	5	10	20	40	60	80	Avg		%RSD
10)		alpha-Chlordane	4.664	5.252	5.484	5.596	6.007	5.977	5.496	E3	9.11
11)		Endosulfan I	4.391	4.905	5.077	5.273	5.559	5.627	5.139	E3	8.92
12)		4,4'-DDE	3.850	4.556	5.163	5.364	5.843	6.011	5.131	E3	15.85
13)		Dieldrin	4.542	5.157	5.538	5.773	6.220	6.282	5.585	E3	11.87
14)		Endrin	3.865	4.284	4.557	4.757	5.055	5.129	4.608	E3	10.42
15)		4,4'-DDD	3.441	3.980	4.324	4.385	4.870	4.950	4.325	E3	13.05
16)		Endosulfan II	4.414	4.735	4.982	4.973	5.332	5.367	4.967	E3	7.28
17)		4,4'-DDT	3.578	3.628	4.108	4.128	4.599	4.633	4.112	E3	11.03
18)		Endrin Aldehyde	1.794	1.978	2.070	2.031	2.126	2.171	2.028	E3	6.59
19)		Endosulfan Sulfate	3.729	3.969	4.169	4.023	4.338	4.282	4.085	E3	5.51
20)		Methoxychlor	1.932	2.012	2.245	2.063	2.109	2.127	2.081	E3	5.13
21)		Endrin Ketone	3.590	3.838	4.119	4.025	4.288	4.292	4.025	E3	6.79
22)	L1	Chlordane-A							2.124	E2	0.00
23)	L1	Chlordane-B							2.803	E2	0.00
24)	L1	Chlordane-C							5.890	E2	0.00
25)	L1	Chlordane-D							5.120	E2	0.00
[illegible]	L1	Chlordane-E							3.500	E2	0.00
	L1	Chlordane-F							2.095	E2	0.00
28)	H	Toxaphene							6.336	E4	0.00
29)	SC	Decachlorobiphenyl	2.045	1.916	2.179	1.846	1.929	1.868	1.964	E3	6.42

000155

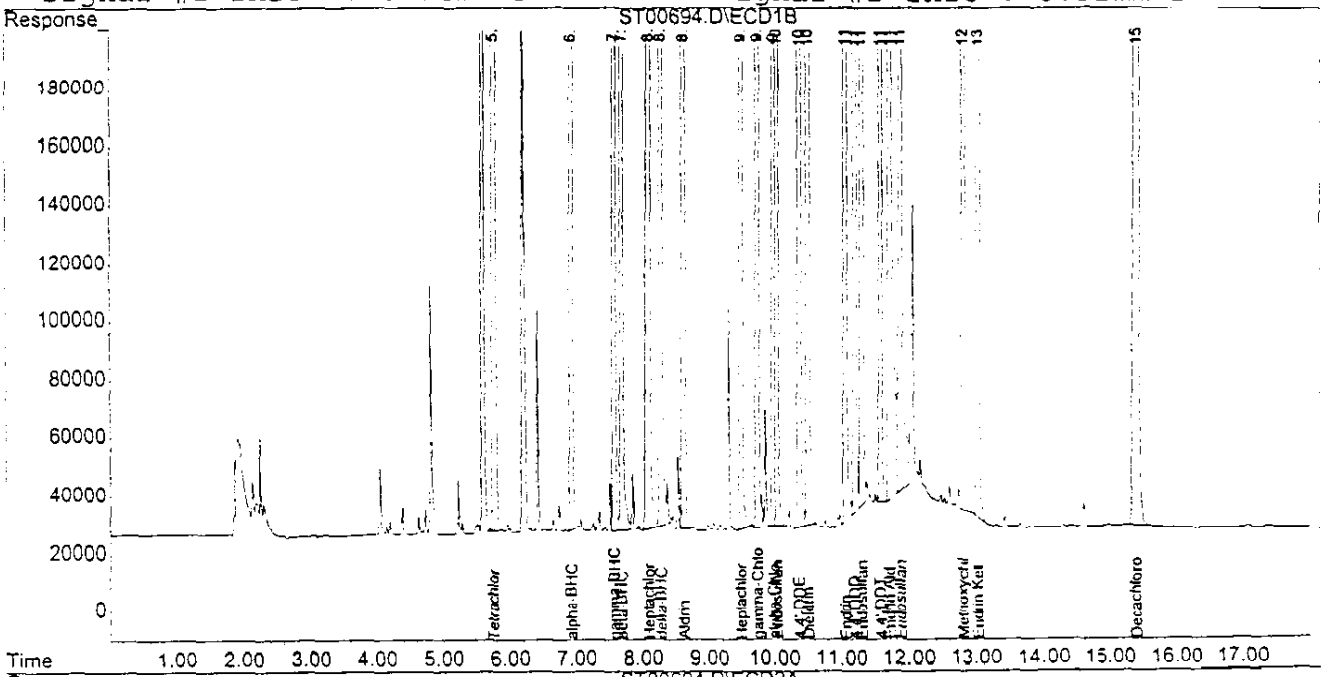
(#) = Out of Range ### Number of calibration levels exceeded format ###

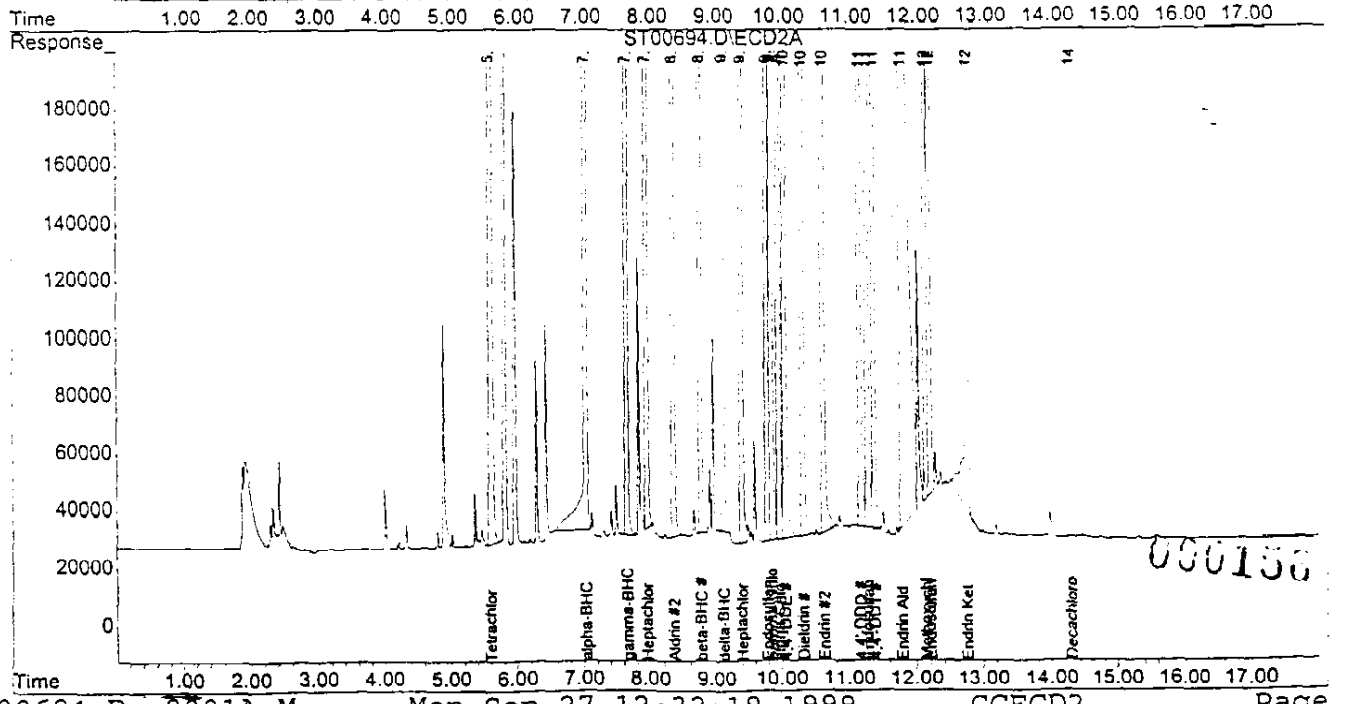
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00694.D\ECD1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00694.D\ECD2A.CH
Acq On : 9-27-99 8:47:44 AM Operator: stephw
Sample : cond std Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:08 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000156

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00694.D\ECD1B.CH Vial: 1
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00694.D\ECD2A.CH
Acq On : 9-27-99 8:47:44 AM Operator: stephw
Sample : cond std Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:08 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	5.75	5.60	6099504	5130756	910.897	921.091
	Spiked Amount 50.000 Range 30 - 160 Recovery = 1821.79%#						1842.18%#
29) SC	Decachlorobiphen	15.40	14.29	1918757	1843506	1022.808	993.057
	Spiked Amount 50.000 Range 30 - 160 Recovery = 2045.62%#						1986.11%#
	Target Compounds						
	alpha-BHC	6.92	7.04	10252574	8590395	885.033	861.346
	gamma-BHC (Linda	7.56	7.66	9149243	7904040	829.351	872.779
4)	beta-BHC	7.68	8.77	4348574	3682292	962.938	959.796
5)	Heptachlor	8.08	7.96	7171497	6219475	894.560	912.382
6)	delta-BHC	8.27	9.11	7515712	6085627	761.954	715.960
7)	Aldrin	8.61	8.36	7091274	6048648	794.213	905.910
8)	Heptachlor Epoxi	9.49	9.40	6663679	5556950	907.950	906.782
9)	gamma-Chlordane	9.74	9.86	6866711	5875901	962.733	988.310
10)	alpha-Chlordane	9.99	9.97	6652983	5888362	935.587	984.957
11)	Endosulfan I	10.03	9.79	5990710	5052151	917.258	916.950
12)	4,4'-DDE	10.37	10.06	6886904	5682579	856.333	898.172
13)	Dieldrin	10.50	10.32	6576303	5714543	832.678	952.556
14)	Endrin	11.06	10.62	5871851	4998485	1138.459	1136.642
15)	4,4'-DDD	11.20	11.17	5777566	4848220	858.636	1016.474
16)	Endosulfan II	11.30	11.28	5945090	4991959	969.503	955.140
17)	4,4'-DDT	11.59	11.38	6302482	4915976	1110.947	1099.459
18)	Endrin Aldehyde	11.72	11.79	3899150	2320803	899.484	943.492
19)	Endosulfan Sulfa	11.88	12.20	4681872	3712502	819.097	807.689
20)	Methoxychlor	12.80	12.14	2339339	2254542	1034.907	1024.143
21)	Endrin Ketone	13.03	12.76	5032275	4134598	964.305	929.350
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000157

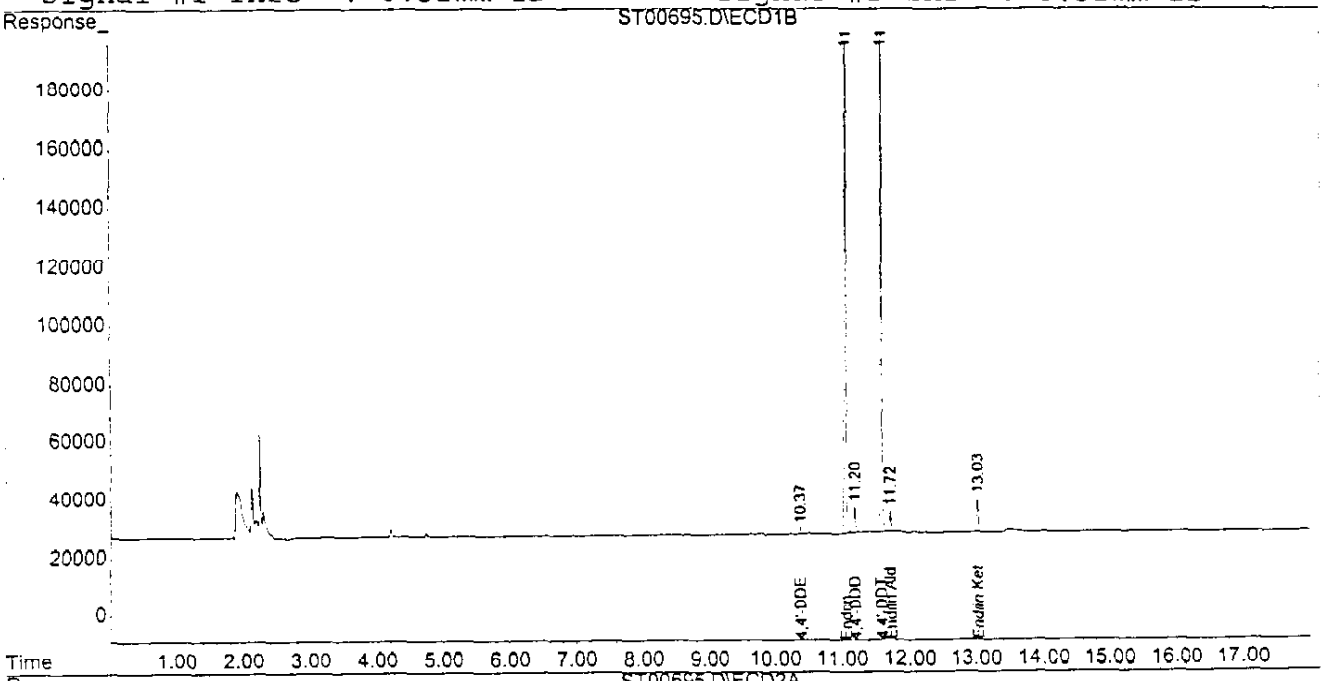
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

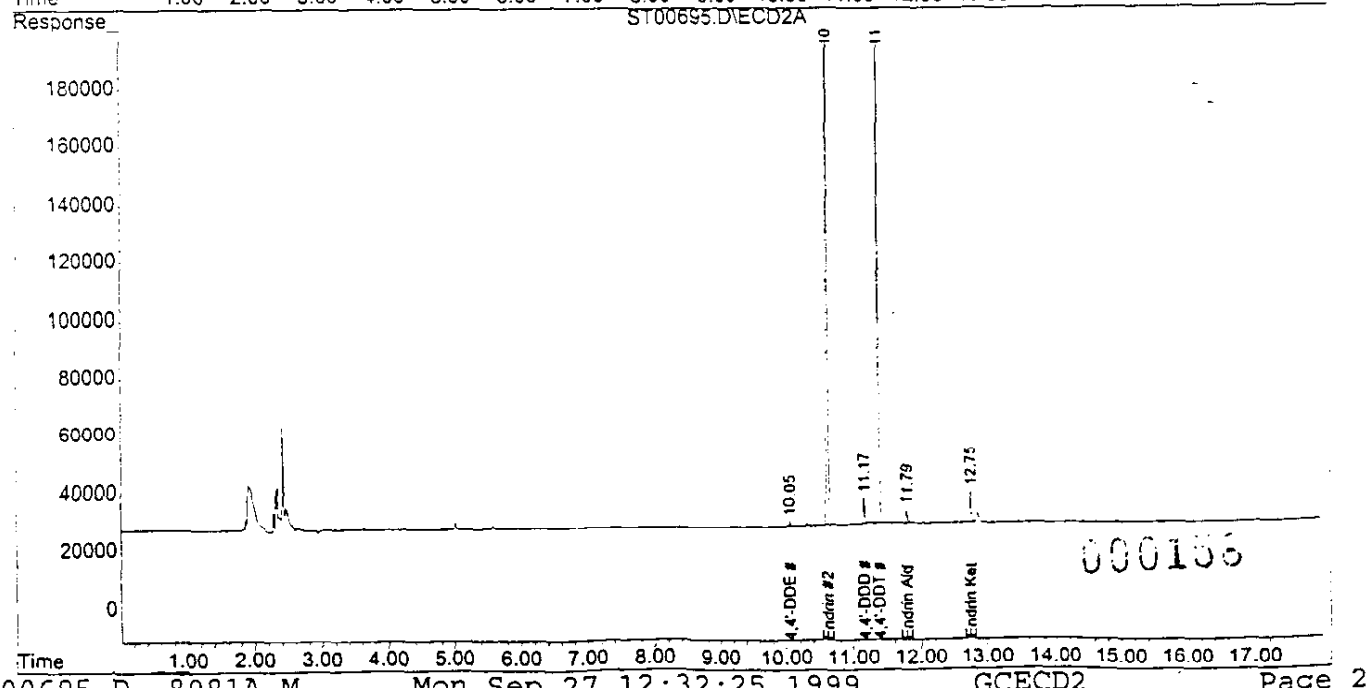
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00695.D\ECD1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00695.D\ECD2A.CH
Acq On : 9-27-99 9:08:56 AM Operator: stephw
Sample : ddt/endrin breakdown p458 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:09 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000156

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00695.D\ECD1B.CH Vial: 2
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00695.D\ECD2A.CH
Acq On : 9-27-99 9:08:56 AM Operator: stephw
Sample : ddt/endrin breakdown p458 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:09 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

SN

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
	Target Compounds						
12)	4,4'-DDE	10.37	10.05	2348	1964	0.292m	0.310m
14)	Endrin	11.06	10.62	272408	236202	52.816	53.712
15)	4,4'-DDD	11.20	11.17	9392	8723	1.396	1.829 #
17)	4,4'-DDT	11.59	11.38	264227	207056	46.576	46.308
1[illegible]	Endrin Aldehyde	11.72	11.79	7643	4520	1.763	1.838m
2[illegible]	Endrin Ketone	13.03	12.75	11897	10317	2.280	2.319
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

Endrin = 6.7%, 5.9%

DDT = 4.3%, 4.9%

000159

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Endrin & DDT Column Breakdown

Data File:	ST00695	Inst.:	ST
Date of Analysis	9/27/99	Time of Analysis	9:08

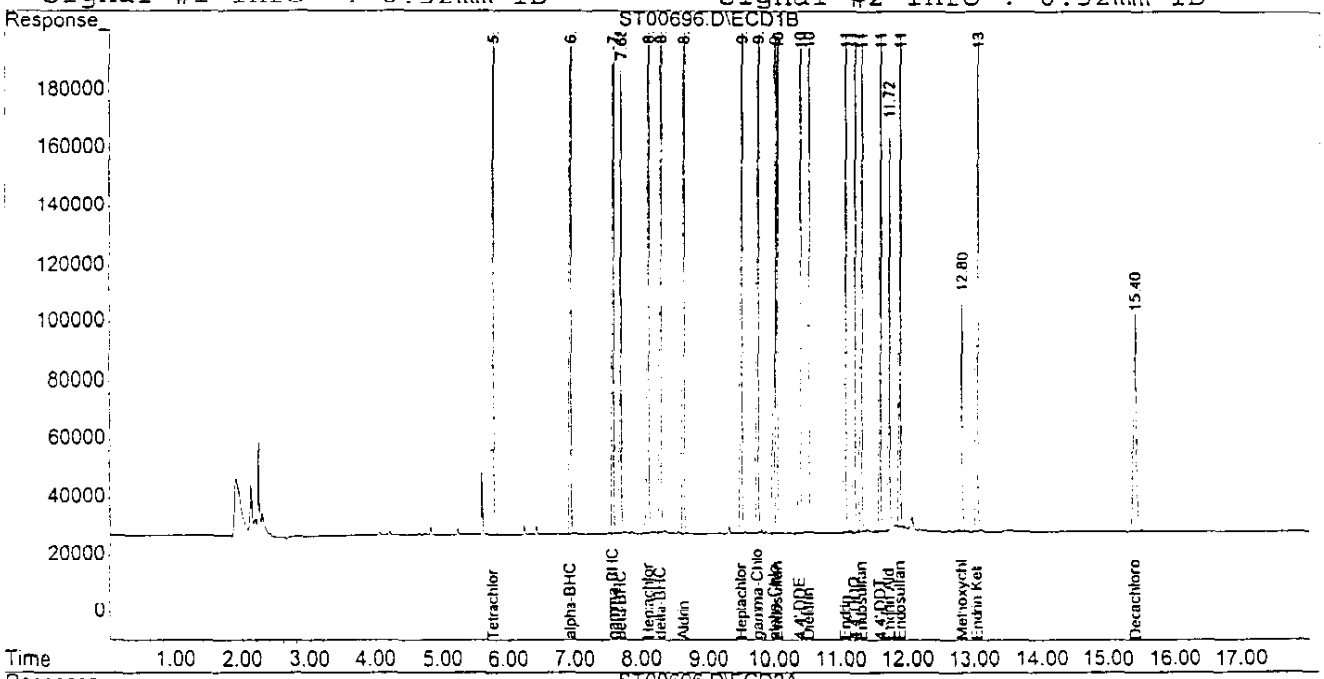
	Column 1		Column 2
Endrin	6.7		5.9
DDT	4.3		4.9

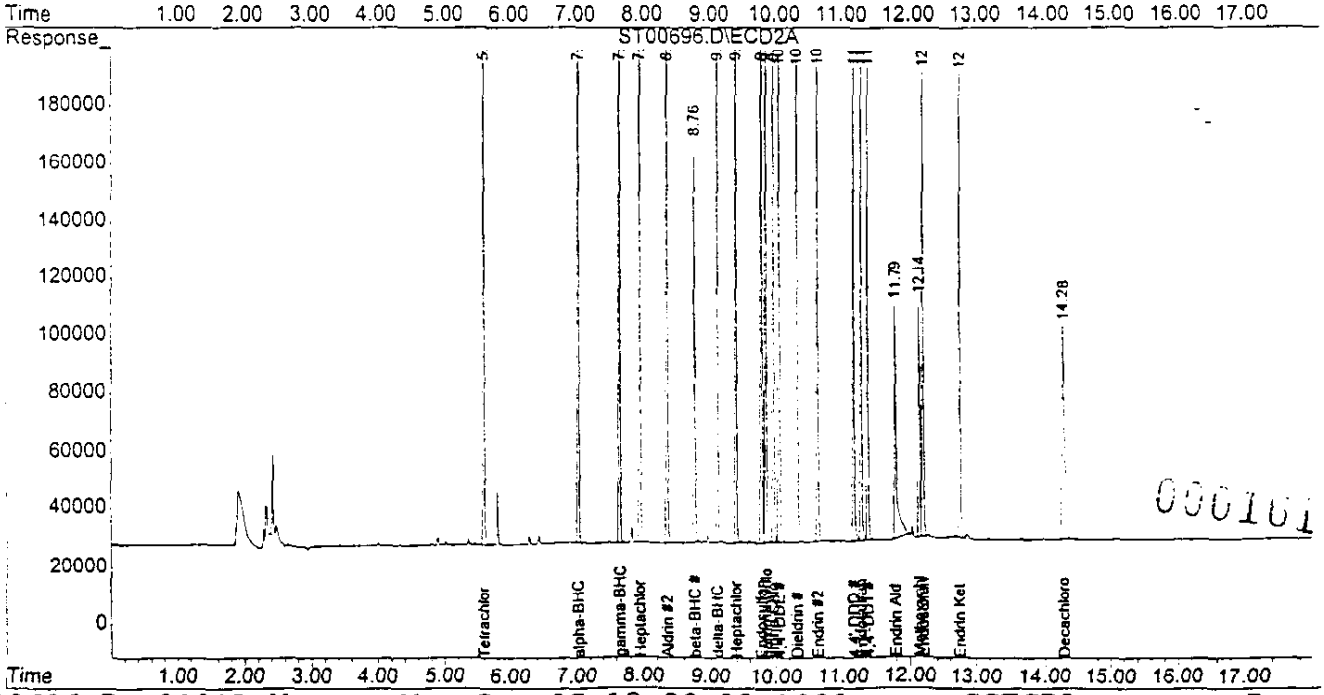
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00696.D\ECD1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00696.D\ECD2A.CH
Acq On : 9-27-99 9:30:04 AM Operator: stephw
Sample : 40ppb pest ccv p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:09 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000161

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00696.D\ECD1B.CH Vial: 3
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00696.D\ECD2A.CH
Acq On : 9-27-99 9:30:04 AM Operator: stephw
Sample : 40ppb pest ccv p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:09 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Thu Sep 23 17:56:57 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

recal

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xy	5.76	5.60	271267	221042	40.511	39.682
	Spiked Amount 50.000 Range 30 - 160 Recovery =					81.02%	79.36%
29) SC	Decachlorobiphen	15.40	14.28	74582	73827	39.756	39.769
	Spiked Amount 50.000 Range 30 - 160 Recovery =					79.51%	79.54%
	Target Compounds						
2)	alpha-BHC	6.92	7.03	421006	349273	36.343	35.021
	gamma-BHC (Linda	7.57	7.65	389566	325165	35.313	35.905
4)	beta-BHC	7.68	8.76	159620	137593	35.346	35.864
5)	Heptachlor	8.09	7.95	306333	273116	38.211	40.065
6)	delta-BHC	8.27	9.11	357240	277000	36.218	32.588
7)	Aldrin	8.61	8.35	301636	268503	33.783	40.214
8)	Heptachlor Epoxi	9.49	9.40	272103	236065	37.075	38.521
9)	gamma-Chlordane	9.74	9.85	271692	224170	38.092	37.705
10)	alpha-Chlordane	9.99	9.96	260998	223833	36.703	37.441
11)	Endosulfan I	10.04	9.79	250649	210920	38.378	38.281
12)	4,4'-DDE	10.38	10.05	258095	214544	32.092	33.910
13)	Dieldrin	10.51	10.32	266732	230905	33.773	38.490
14)	Endrin	11.06	10.62	221410	190275	42.928	43.268
15)	4,4'-DDD	11.20	11.17	213485	175398	31.727	36.774
16)	Endosulfan II	11.31	11.28	225549	198907	36.782	38.058
17)	4,4'-DDT	11.59	11.38	208294	165124	36.716	36.930
18)	Endrin Aldehyde	11.72	11.79	139566	81260	32.196	33.035
19)	Endosulfan Sulfa	11.88	12.19	197551	160924	34.562	35.011
20)	Methoxychlor	12.80	12.14	81204	82533	35.924	37.491
21)	Endrin Ketone	13.03	12.75	189188	161002	36.253	36.189
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000162

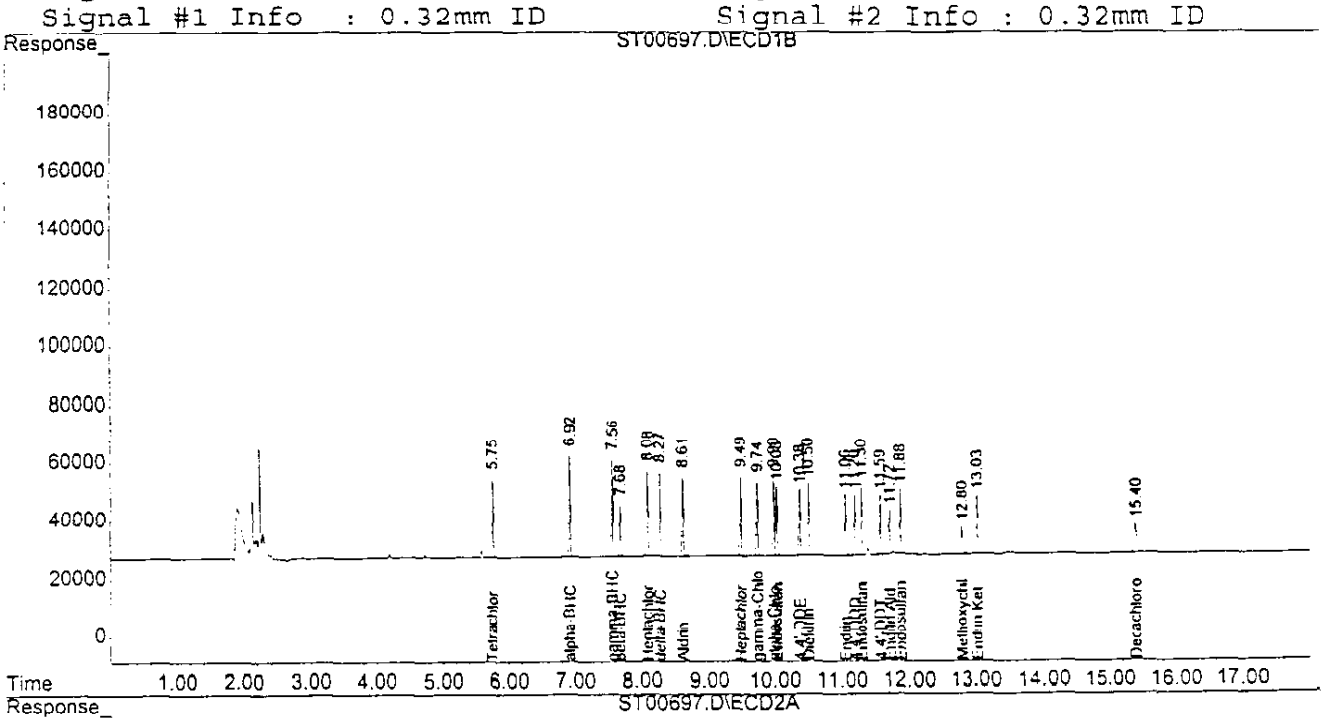
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

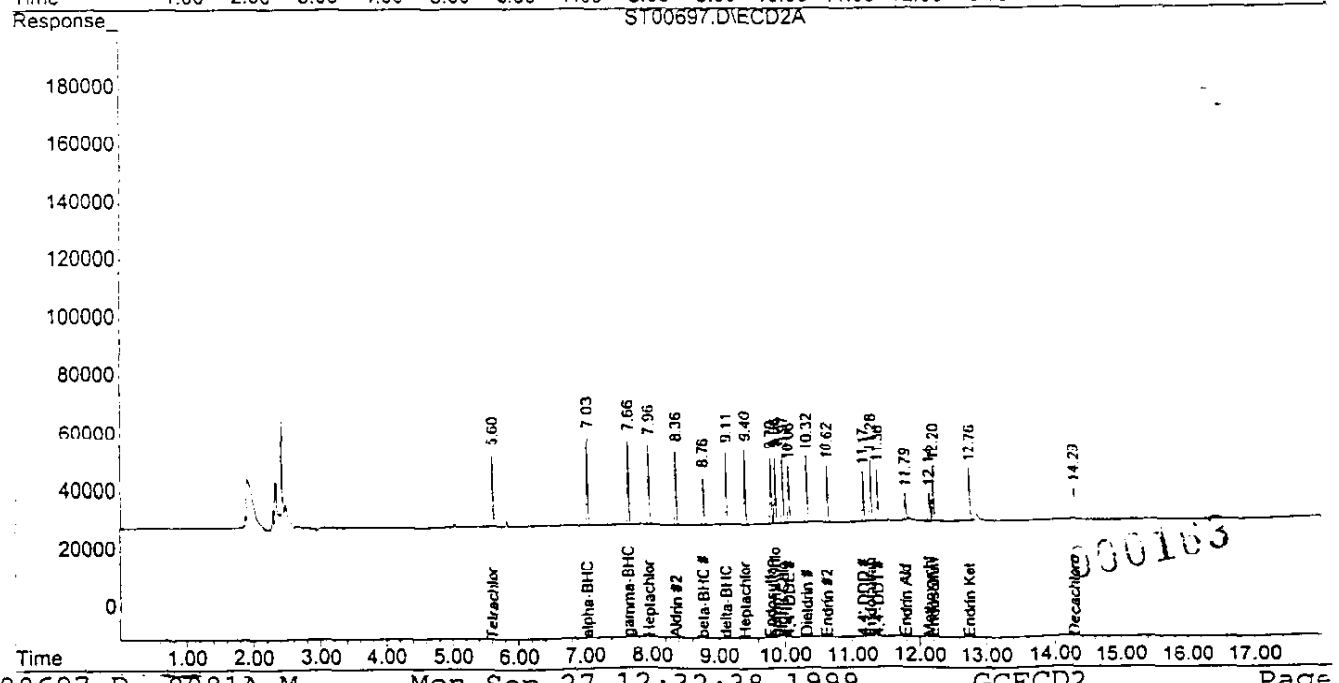
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00697.D\ECD1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00697.D\ECD2A.CH
Acq On : 9-27-99 9:59:22 AM Operator: stephw
Sample : 5ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:10 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:09:32 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000103

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00697.D\ECD1B.CH Vial: 4
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00697.D\ECD2A.CH
Acq On : 9-27-99 9:59:22 AM Operator: stephw
Sample : 5ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:10 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:09:32 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.75	5.61	26781	23931	4.043	4.327
	Spiked Amount 50.000 Range 30 - 160 Recovery =					8.09%#	8.65%#
29)	SC Decachlorobiphen	15.40	14.29	10156	10225	5.447	5.532
	Spiked Amount 50.000 Range 30 - 160 Recovery =					10.89%#	11.06%#
	Target Compounds						
2)	alpha-BHC	6.92	7.03	34660	30338	3.058	3.070
	gamma-BHC (Linda	7.56	7.66	33248	29219	3.034	3.246
4)	beta-BHC	7.68	8.76	17635	15880	4.006	4.206
5)	Heptachlor	8.08	7.96	29385	27599	3.746	4.082
6)	delta-BHC	8.27	9.11	28658	24716	2.981	2.946
7)	Aldrin	8.61	8.36	27102	25342	3.074	3.842 #
8)	Heptachlor Epoxi	9.49	9.40	27062	25301	3.759	4.180
9)	gamma-Chlordane	9.74	9.86	25451	22747	3.613	3.880
10)	alpha-Chlordane	9.99	9.97	27015	23320	3.886	3.962
11)	Endosulfan I	10.04	9.79	23986	21957	3.724	4.036
12)	4,4'-DDE	10.38	10.06	22782	19250	2.883	3.081
13)	Dieldrin	10.50	10.32	24939	22709	3.205	3.835
14)	Endrin	11.06	10.62	21138	19326	4.104	4.401
15)	4,4'-DDD	11.20	11.17	20866	17204	3.158	3.689
16)	Endosulfan II	11.31	11.28	24477	22068	4.063	4.275
17)	4,4'-DDT	11.59	11.38	20654	17888	3.729	4.065
18)	Endrin Aldehyde	11.72	11.79	15239	8968	3.619	3.761
19)	Endosulfan Sulfa	11.88	12.20	22325	18647	4.014	4.147
20)	Methoxychlor	12.80	12.14	9756	9659	4.414	4.458
21)	Endrin Ketone	13.03	12.76	20300	17948	3.953	4.102
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000164

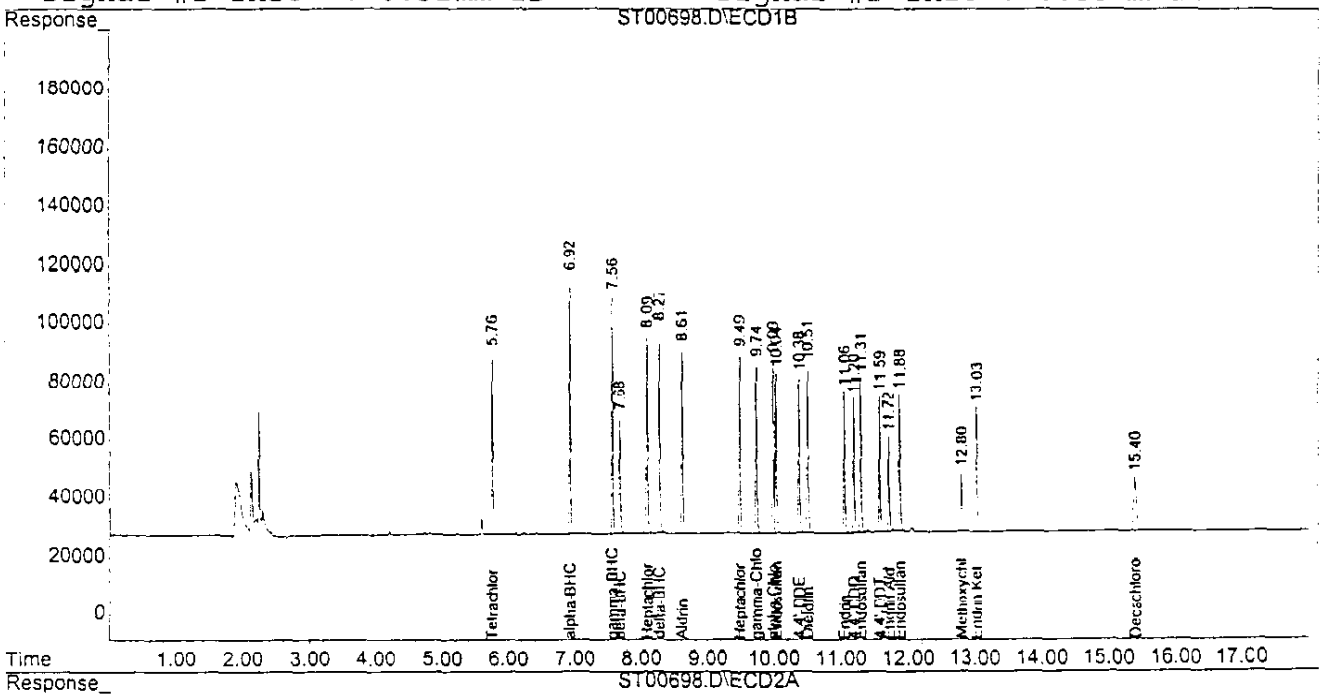
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

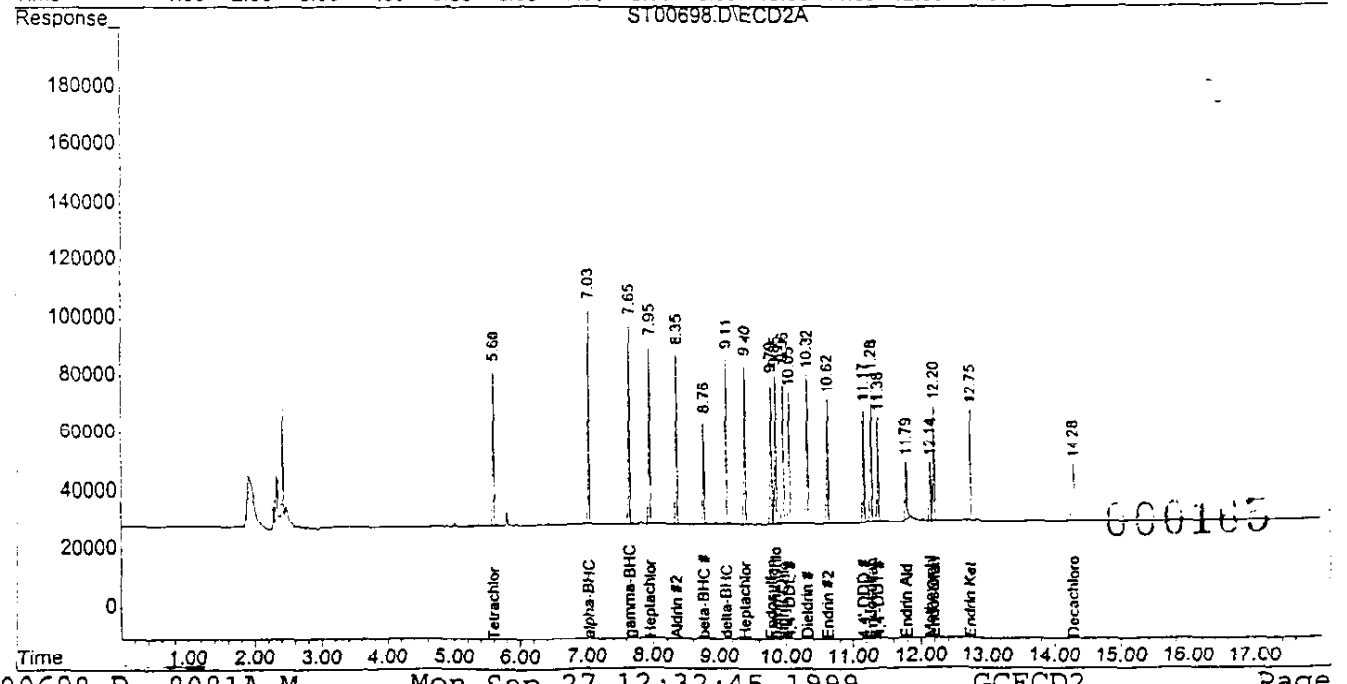
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00698.D\ECD1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00698.D\ECD2A.CH
Acq On : 9-27-99 10:20:31 AM Operator: stephw
Sample : 10ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:10 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:10:25 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00698.D\ECD1B.CH Vial: 5
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00698.D\ECD2A.CH
Acq On : 9-27-99 10:20:31 AM Operator: stephw
Sample : 10ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:10 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:10:25 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.76	5.60	61482	53352	9.247	9.640
	Spiked Amount 50.000 Range 30 - 160 Recovery =					18.49%#	19.28%#
29)	SC Decachlorobiphen	15.40	14.28	18975	19156	9.989	10.126
	Spiked Amount 50.000 Range 30 - 160 Recovery =					19.98%#	20.25%#
	Target Compounds						
2)	alpha-BHC	6.92	7.03	87589	74369	7.727	7.525
	gamma-BHC (Linda	7.57	7.65	81110	68992	7.401	7.665
4)	beta-BHC	7.68	8.76	39195	35068	8.992	9.364
5)	Heptachlor	8.09	7.95	67325	62147	8.615	9.149
6)	delta-BHC	8.27	9.11	69445	57324	7.223	6.833
7)	Aldrin	8.61	8.35	62928	58996	7.137	8.934 #
8)	Heptachlor Epoxi	9.49	9.40	61006	54802	8.543	9.025
9)	gamma-Chlordane	9.74	9.85	57653	50993	8.237	8.735
10)	alpha-Chlordane	9.99	9.96	59184	52518	8.516	8.973
11)	Endosulfan I	10.04	9.79	55688	49050	8.709	9.052
12)	4,4'-DDE	10.38	10.05	54163	45560	6.854	7.292
13)	Dieldrin	10.51	10.32	57818	51572	7.432	8.755
14)	Endrin	11.06	10.62	49393	42836	9.549	9.626
15)	4,4'-DDD	11.20	11.17	46494	39803	7.037	8.575
16)	Endosulfan II	11.31	11.28	53533	47348	8.944	9.150
17)	4,4'-DDT	11.59	11.38	47221	36283	8.560	8.260
18)	Endrin Aldehyde	11.72	11.79	32826	19781	7.977	8.421
19)	Endosulfan Sulfa	11.88	12.20	47557	39685	8.630	8.912
20)	Methoxychlor	12.80	12.14	20752	20123	9.410	9.275
21)	Endrin Ketone	13.03	12.75	43256	38376	8.495	8.809
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000100

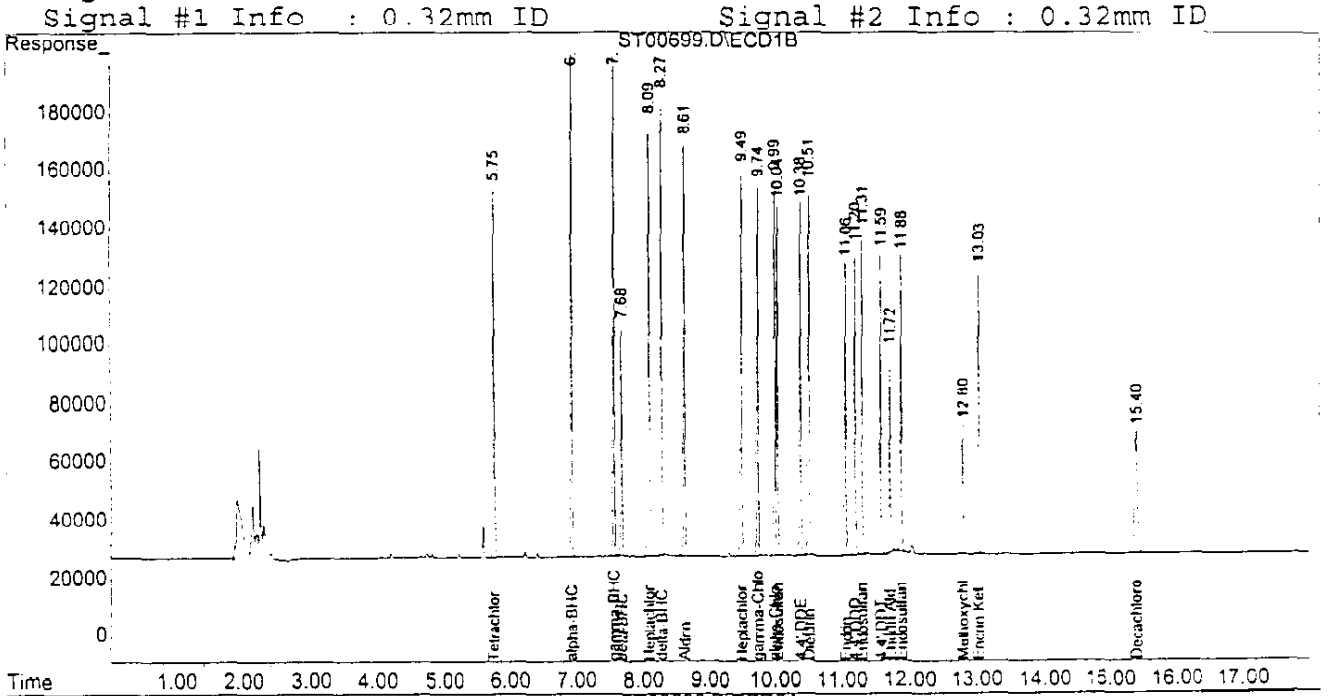
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

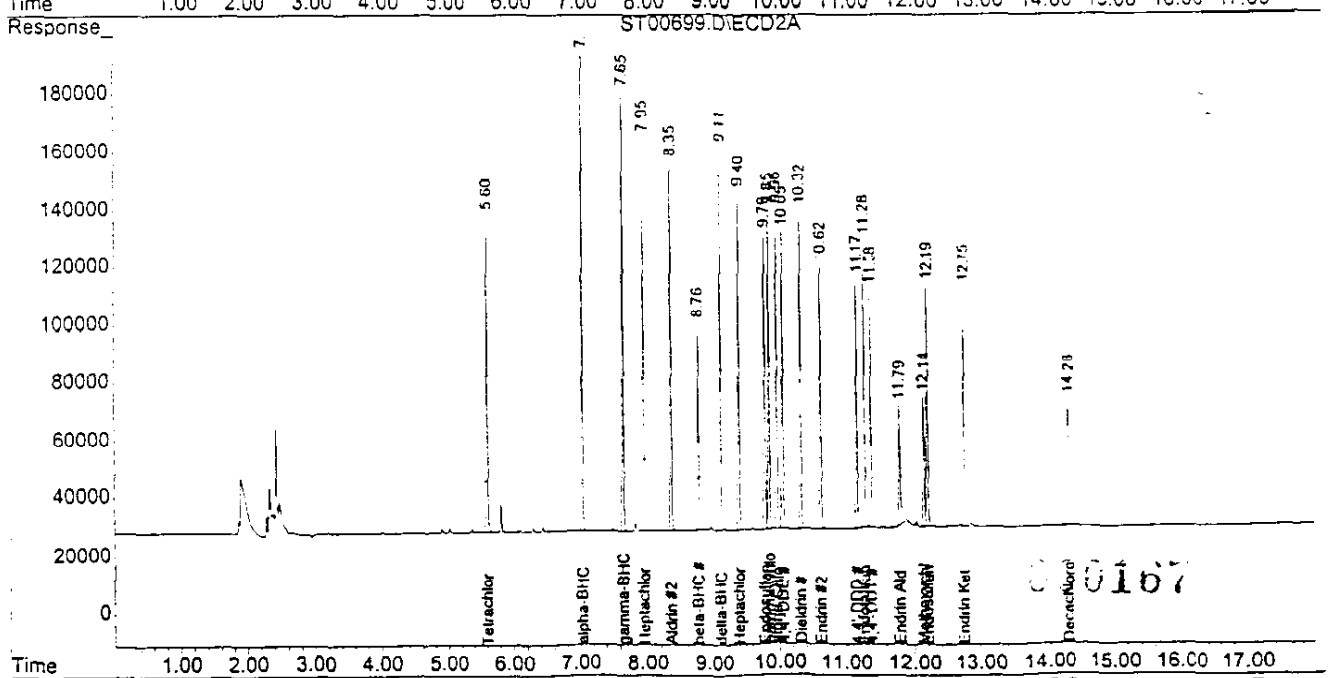
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00699.D\ECD1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00699.D\ECD2A.CH
Acq On : 9-27-99 10:41:40 AM Operator: stephw
Sample : 20ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:11 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:10:51 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00699.D\ECD1B.CH Vial: 6
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00699.D\ECD2A.CH
Acq On : 9-27-99 10:41:40 AM Operator: stephw
Sample : 20ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:11 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:10:51 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.76	5.60	125328	108348	19.012	19.691
	Spiked Amount 50.000 Range 30 - 160 Recovery =					38.02%	39.38%
29)	SC Decachlorobiphen	15.40	14.28	42531	43583	22.578	23.300
	Spiked Amount 50.000 Range 30 - 160 Recovery =					45.16%	46.60%
	Target Compounds						
	alpha-BHC	6.92	7.03	196260	165062	17.552	16.705
	gamma-BHC (Linda	7.57	7.65	175679	150662	16.039	16.743
4)	beta-BHC	7.68	8.76	78431	70189	18.301	19.064
5)	Heptachlor	8.09	7.95	148735	134442	19.221	19.826
6)	delta-BHC	8.27	9.11	157161	130829	16.680	15.603
7)	Aldrin	8.61	8.35	141097	126285	16.012	19.221
8)	Heptachlor Epoxi	9.49	9.40	131866	115613	18.823	19.226
9)	gamma-Chlordane	9.74	9.85	126388	109150	18.407	18.922
10)	alpha-Chlordane	9.99	9.96	128712	109676	18.816	18.951
11)	Endosulfan I	10.04	9.79	120770	101530	19.169	18.948
12)	4,4'-DDE	10.38	10.05	121181	103257	15.346	16.538
13)	Dieldrin	10.51	10.32	127325	110770	16.379	18.998
14)	Endrin	11.06	10.62	100680	91142	19.374	20.328
15)	4,4'-DDD	11.20	11.17	105720	86488	16.016	18.991
16)	Endosulfan II	11.31	11.28	111221	99632	18.805	19.466
17)	4,4'-DDT	11.59	11.38	103288	82159	18.970	19.077
18)	Endrin Aldehyde	11.72	11.79	69253	41408	17.432	18.255
19)	Endosulfan Sulfa	11.88	12.19	101703	83378	18.956	19.141
20)	Methoxychlor	12.80	12.14	44713	44894	20.560	21.028
21)	Endrin Ketone	13.03	12.75	98249	82375	19.825	19.288
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000103

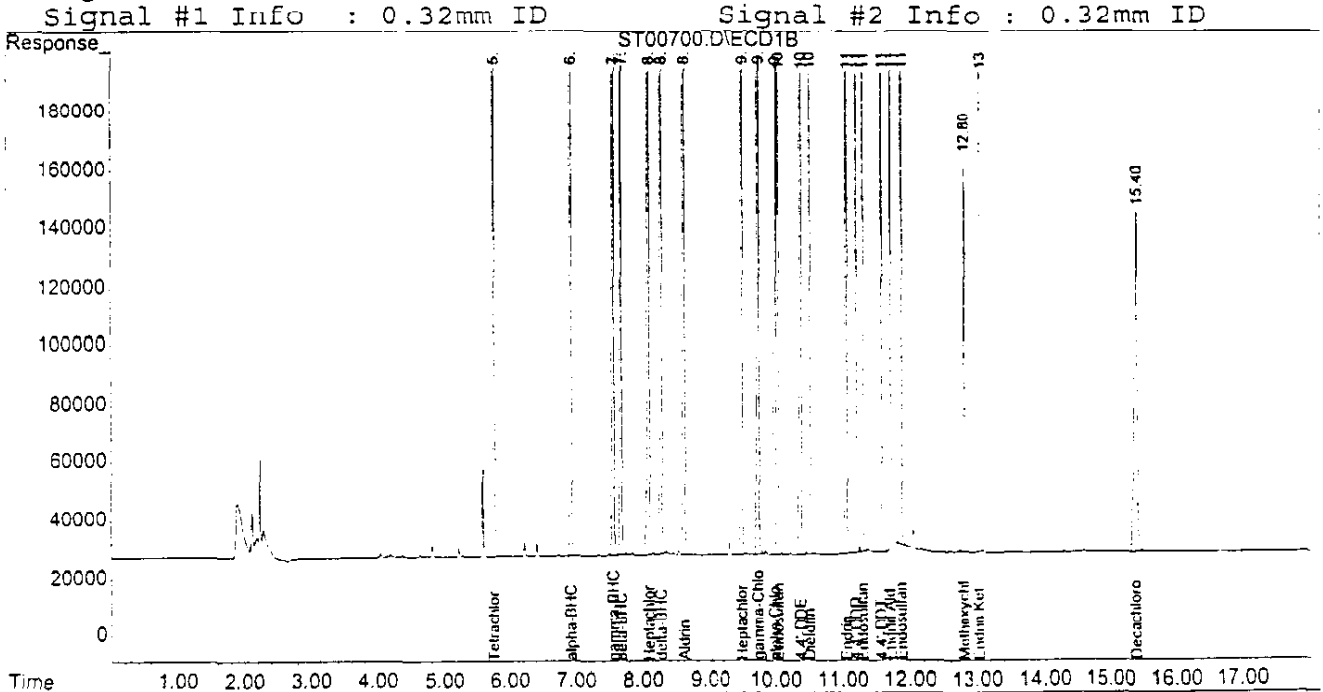
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

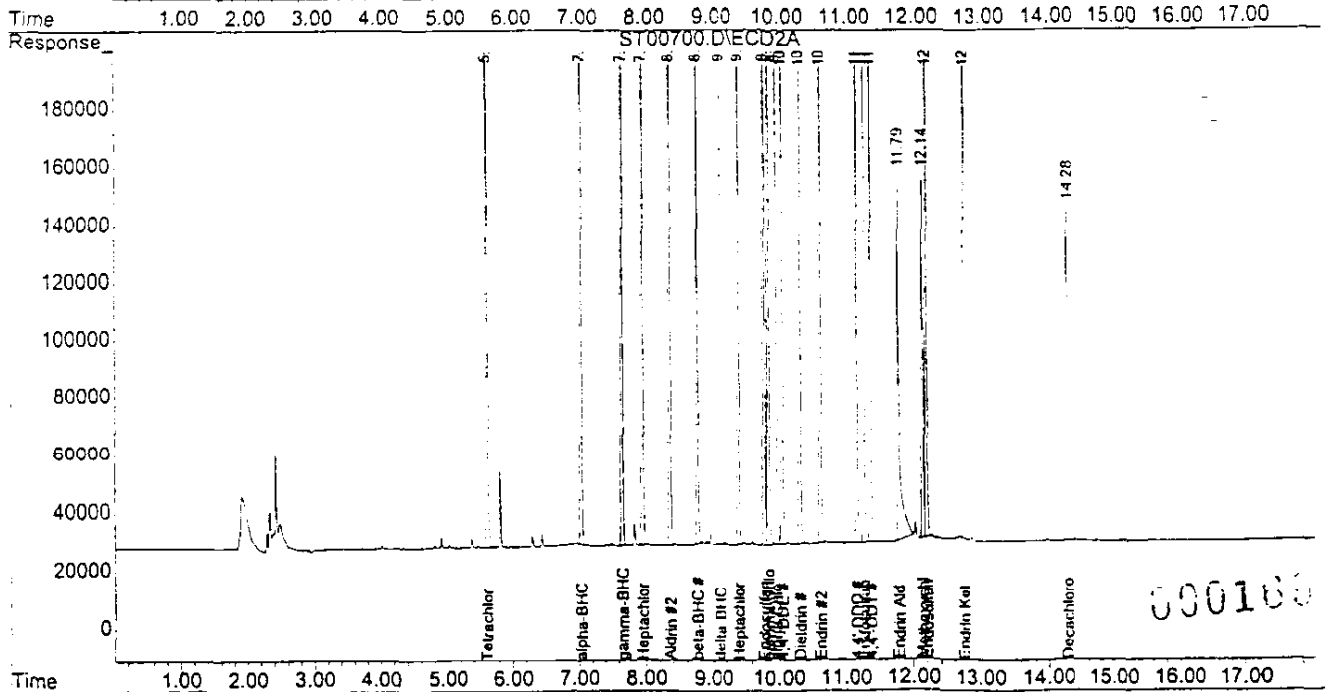
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00700.D\ECD1B.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00700.D\ECD2A.CH
Acq On : 9-27-99 11:02:55 AM Operator: stephw
Sample : 60ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:11 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:11:18 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00700.D\ECD1B.CH Vial: 7
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00700.D\ECD2A.CH
Acq On : 9-27-99 11:02:55 AM Operator: stephw
Sample : 60ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:11 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:11:18 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.76	5.60	390243	322182	60.065	59.043
	Spiked Amount 50.000 Range 30 - 160 Recovery =					120.13%	118.09%
29)	SC Decachlorobiphen	15.40	14.28	116961	115737	61.057	60.615
	Spiked Amount 50.000 Range 30 - 160 Recovery =					122.11%	121.23%
	Target Compounds						
	alpha-BHC	6.92	7.03	684737	563577	62.945	57.121
	gamma-BHC (Linda	7.57	7.65	610208	511297	55.917	56.927
4)	beta-BHC	7.68	8.76	250067	218604	60.034	60.590
5)	Heptachlor	8.09	7.95	503327	444171	65.745	65.671
6)	delta-BHC	8.27	9.11	555660	462962	60.450	55.336
7)	Aldrin	8.61	8.35	481837	423269	54.802	65.026
8)	Heptachlor Epoxi	9.49	9.40	445737	376899	64.972	63.289
9)	gamma-Chlordane	9.74	9.85	424109	357442	63.364	62.755
10)	alpha-Chlordane	9.99	9.96	419435	360391	62.295	63.365
11)	Endosulfan I	10.04	9.79	391941	333516	63.109	63.034
12)	4,4'-DDE	10.38	10.05	432000	350581	54.908	56.268
13)	Dieldrin	10.51	10.32	428358	373203	55.271	65.002
14)	Endrin	11.06	10.62	358536	303313	69.161	67.367
15)	4,4'-DDD	11.20	11.17	345072	292224	52.453	65.286
16)	Endosulfan II	11.31	11.28	375252	319897	64.345	63.071
17)	4,4'-DDT	11.59	11.38	355704	275941	65.718	64.641
18)	Endrin Aldehyde	11.72	11.79	221550	127549	58.372	58.359
19)	Endosulfan Sulfa	11.88	12.19	322389	260281	61.025	60.879
20)	Methoxychlor	12.80	12.14	135322	126565	62.557	59.450
21)	Endrin Ketone	13.03	12.75	306153	257289	62.277	61.150
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000170

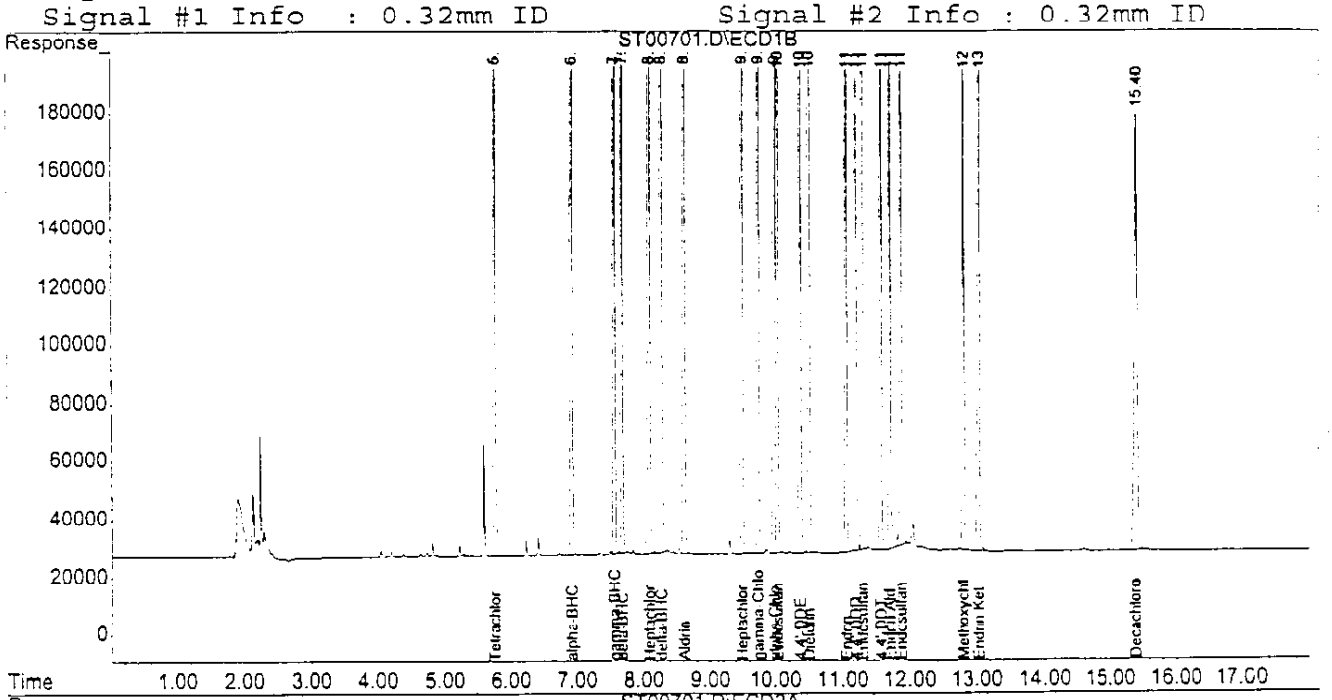
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

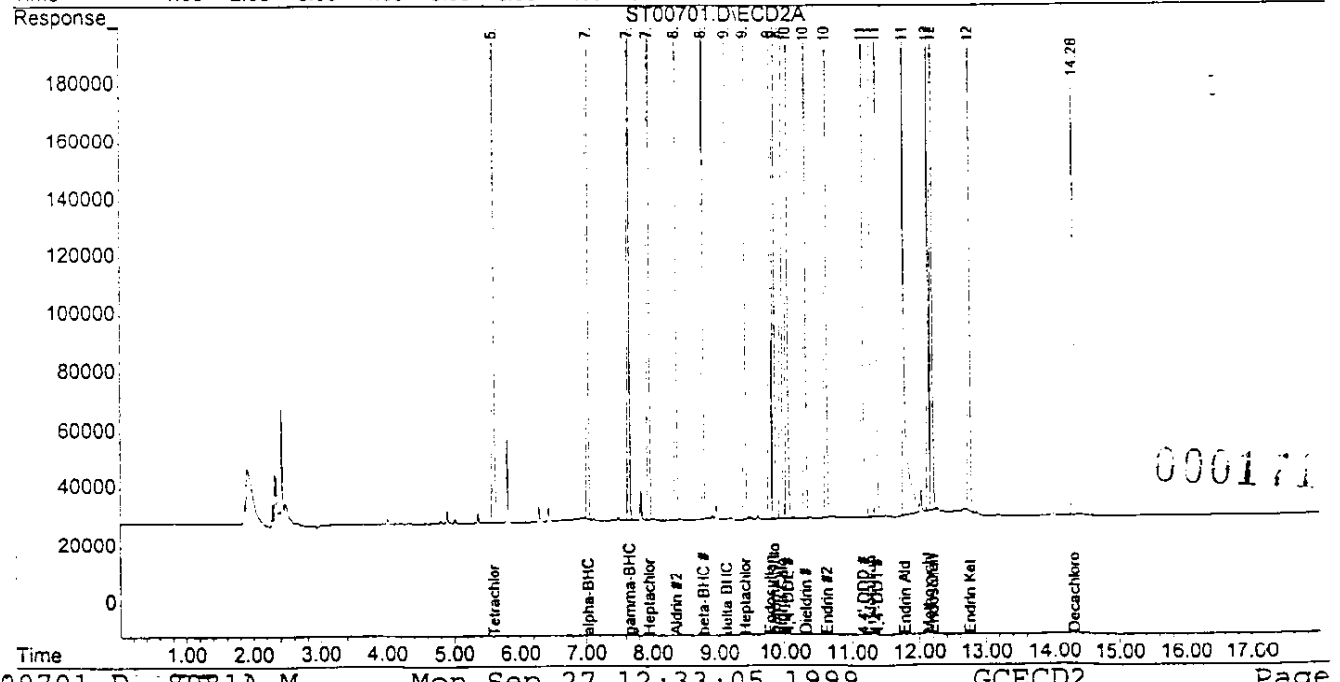
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00701.D\ECD1B.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00701.D\ECD2A.CH
Acq On : 9-27-99 11:24:04 AM Operator: stephw
Sample : 80ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:12 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:11:45 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000171

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00701.D\ECD1B.CH Vial: 8
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00701.D\ECD2A.CH
Acq On : 9-27-99 11:24:04 AM Operator: stephw
Sample : 80ppb pest p471 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:12 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:11:45 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.76	5.60	545013	460965	84.605	84.776
	Spiked Amount 50.000 Range 30 - 160 Recovery =					169.21%#	169.55%#
29)	SC Decachlorobiphen	15.40	14.28	150786	149474	77.896	77.114
	Spiked Amount 50.000 Range 30 - 160 Recovery =					155.79%	154.23%
	Target Compounds						
2)	alpha-BHC	6.92	7.03	943272	785022	88.077	80.430
	gamma-BHC (Linda	7.57	7.65	824922	700747	76.798	79.557
4)	beta-BHC	7.68	8.76	331832	290334	81.640	81.685
5)	Heptachlor	8.09	7.95	689835	592887	91.190	87.795
6)	delta-BHC	8.27	9.11	787342	632633	88.687	77.530
7)	Aldrin	8.61	8.35	645691	576422	75.642	89.293
8)	Heptachlor Epoxi	9.49	9.40	596813	505052	87.971	85.871
9)	gamma-Chlordane	9.74	9.85	595573	487663	90.675	87.606
10)	alpha-Chlordane	9.99	9.96	562119	478146	85.156	85.027
11)	Endosulfan I	10.04	9.79	533299	450134	87.138	86.174
12)	4,4'-DDE	10.38	10.05	601513	480850	78.712	79.079
13)	Dieldrin	10.51	10.32	571023	502563	75.869	88.777
14)	Endrin	11.06	10.62	494208	410296	93.931	89.785
15)	4,4'-DDD	11.20	11.17	481359	395961	76.776	89.852
16)	Endosulfan II	11.31	11.28	494870	429358	85.918	85.358
17)	4,4'-DDT	11.59	11.38	458937	370676	86.254	88.181
18)	Endrin Aldehyde	11.72	11.79	303425	173686	83.439	82.534
19)	Endosulfan Sulfa	11.88	12.19	425427	342558	82.858	81.675
20)	Methoxychlor	12.80	12.14	173348	170189	80.572	80.871
21)	Endrin Ketone	13.03	12.75	417389	343324	86.303	83.102
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000172

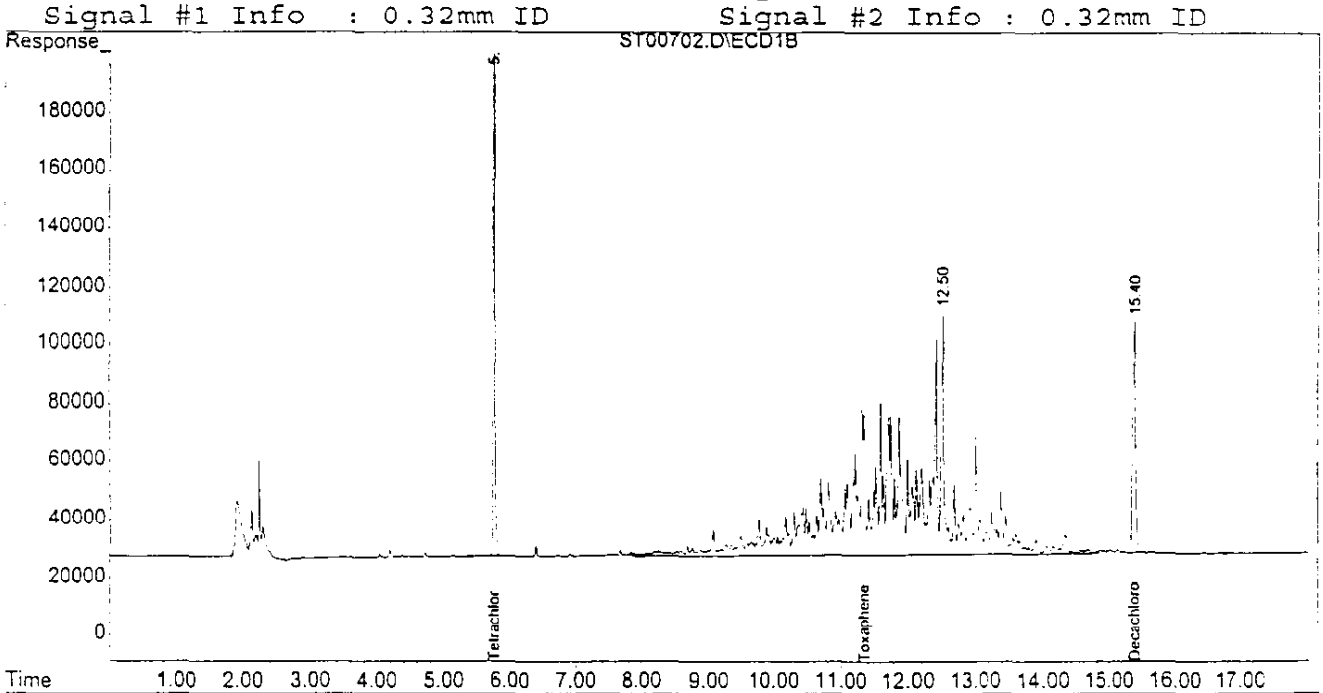
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

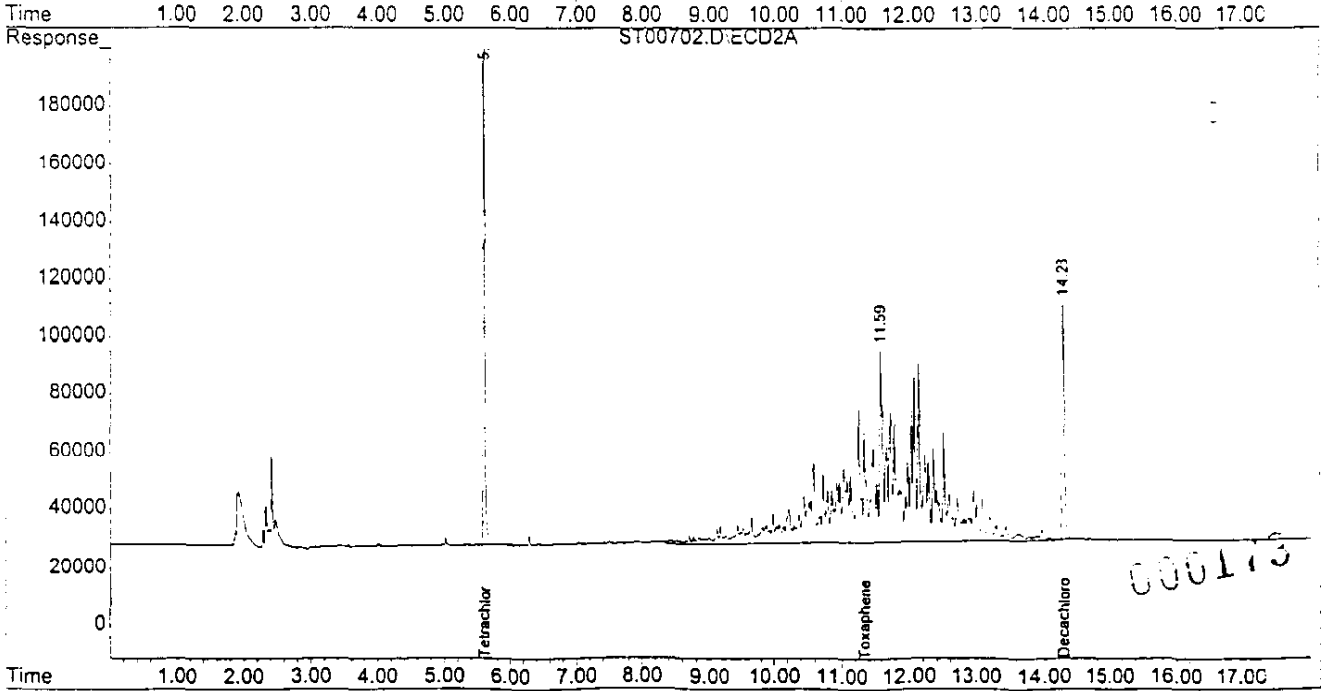
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00702.D\ECD1B.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00702.D\ECD2A.CH
Acq On : 9-27-99 11:45:14 AM Operator: stephw
Sample : 500ppb toxaphene p459 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:13 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:13:18 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000173

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00702.D\ECD1B.CH Vial: 9
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00702.D\ECD2A.CH
Acq On : 9-27-99 11:45:14 AM Operator: stephw
Sample : 500ppb toxaphene p459 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:13 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:13:18 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.76	5.60	307934	262849	48.789	48.983
Spiked Amount 50.000 Range 30 - 160 Recovery =					97.58%	97.97%
29) SC Decachlorobiphen	15.40	14.28	80319	82190	41.000	41.853
Spiked Amount 50.000 Range 30 - 160 Recovery =					82.00%	83.71%
Target Compounds						
Sum Chlordane-A			0	0	N.D.	N.D.
A age Chlordane-A					0.000	0.000
28) H Toxaphene	11.35	11.35	37819391	31679151	485.845	499.989

00174

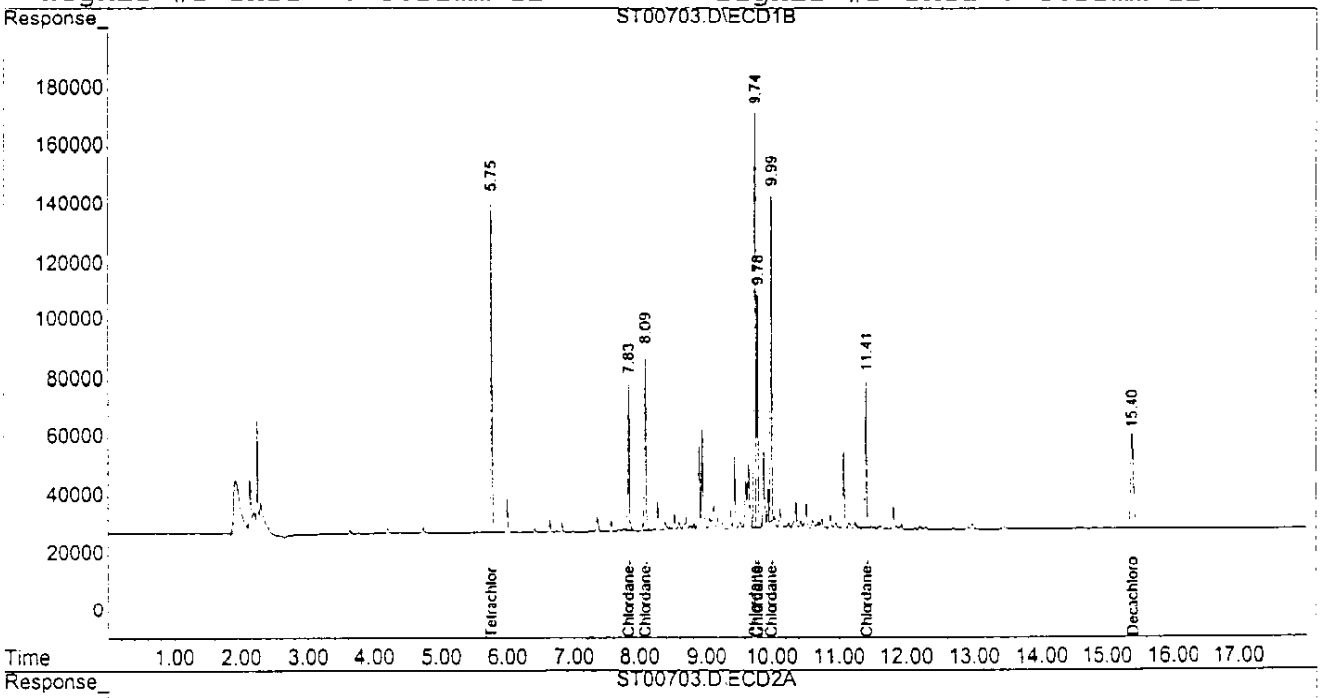
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

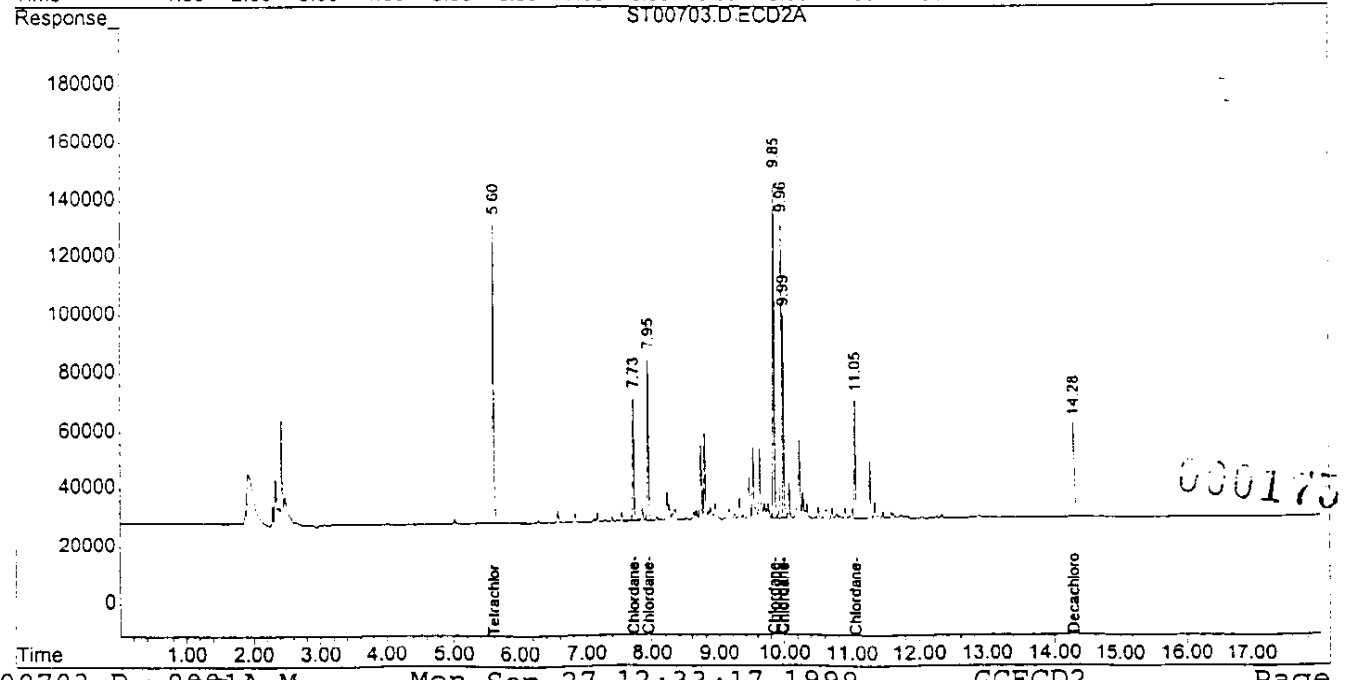
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00703.D\ECD1B.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00703.D\ECD2A.CH
Acq On : 9-27-99 12:06:31 PM Operator: stephw
Sample : 200ppb chlordane p460 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:31 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:14:10 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000175

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00703.D\ECD1B.CH Vial: 10
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00703.D\ECD2A.CH
Acq On : 9-27-99 12:06:31 PM Operator: stephw
Sample : 200ppb chlordane p460 Inst : ECD 3
Misc : op,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 27 12:31 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:14:10 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	5.75	5.60	114165	103204	18.088	19.233
Spiked Amount 50.000 Range 30 - 160 Recovery =					36.18%	38.47%
29) SC Decachlorobiphen	15.40	14.28	32812	33215	16.750	16.914
Spiked Amount 50.000 Range 30 - 160 Recovery =					33.50%	33.83%
Target Compounds						
22) L1 Chlordane-A	7.83	7.73	50641	42489	198.034	195.384
23) L1 Chlordane-B	8.09	7.95	60917	56055	195.710	203.413
24) L1 Chlordane-C	9.74	9.85	142412	117796	194.527	195.145
25) L1 Chlordane-D	9.78	9.96	80734	102400	188.027	197.459
26) L1 Chlordane-E	9.99	9.99	112388	69993	178.640	194.540
27) L1 Chlordane-F	11.41	11.05	52074	41903	198.397	194.945
Sum Chlordane-A			499167	430635	N.D.	N.D.
Average Chlordane-A					192.223	196.815

000170

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

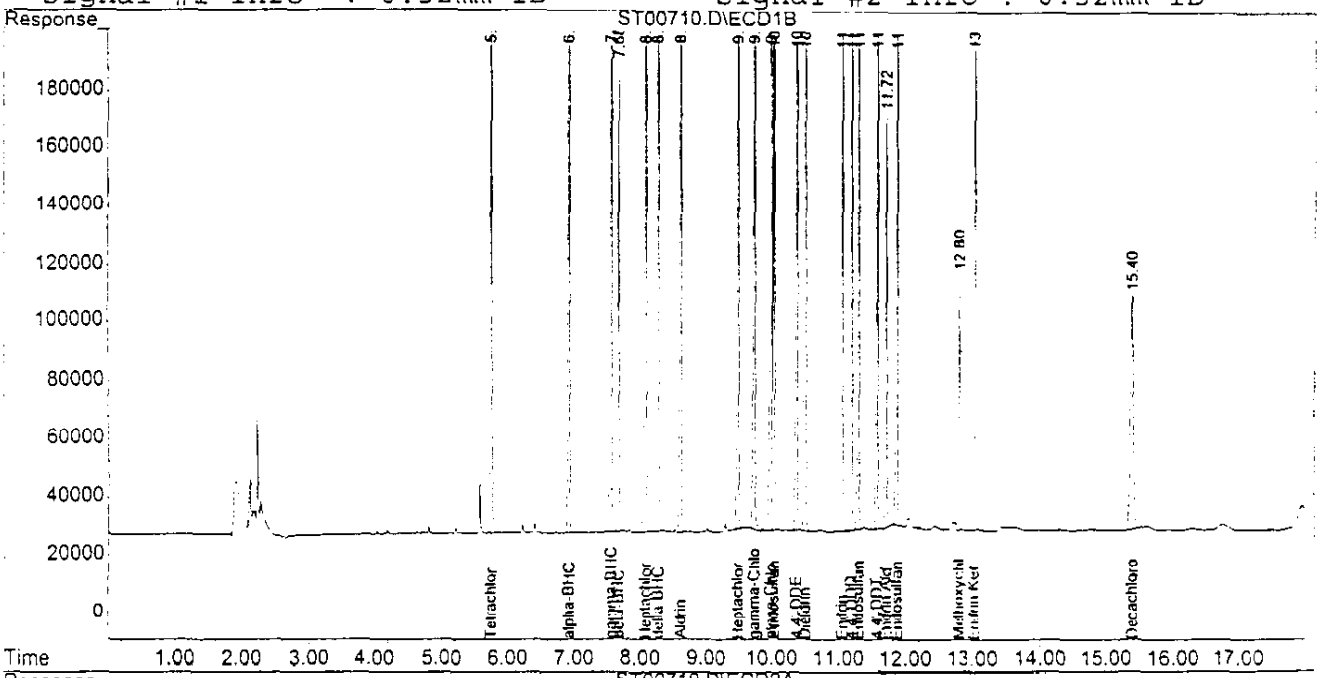
CONTINUING CALIBRATION SUMMARY

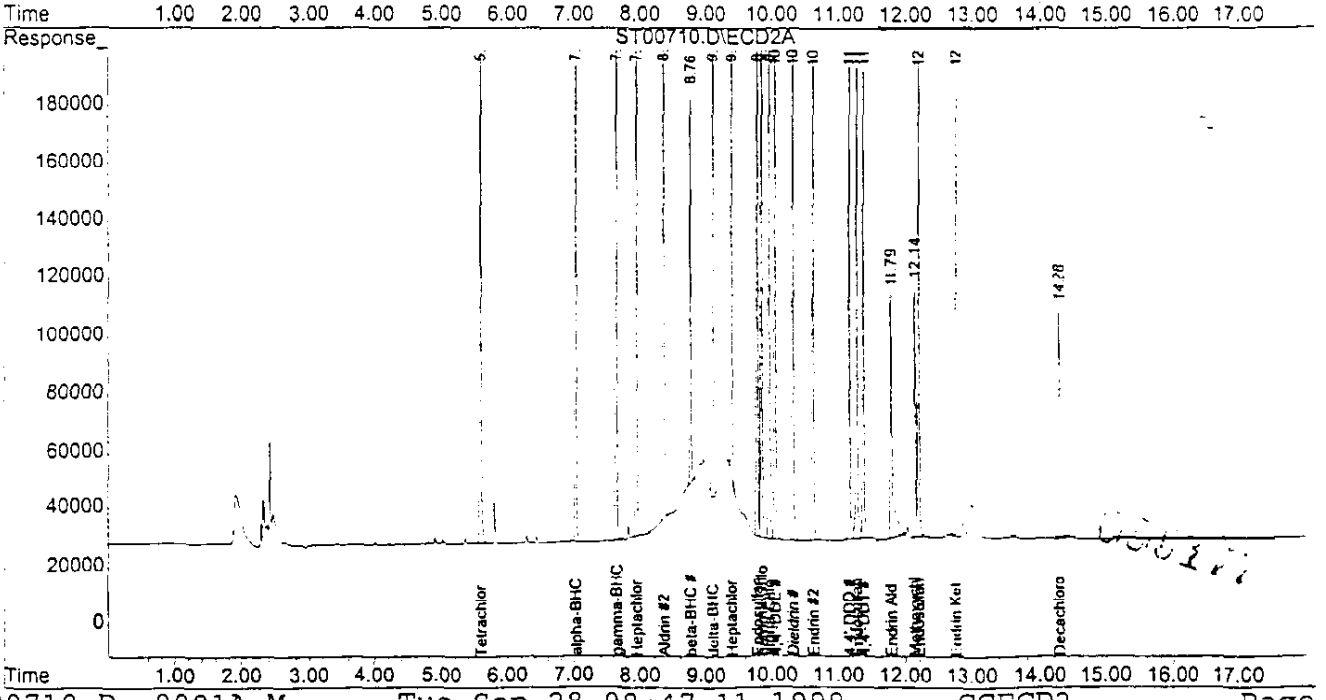
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD1B.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD2A.CH
Acq On : 9-27-99 5:17:20 PM Operator: stephw
Sample : 40ppb ccv Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 28 8:46 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD1B.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD2A.CH
Acq On : 9-27-99 5:17:20 PM Operator: stephw
Sample : 40ppb ccv Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E
Quant Time: Sep 28 8:46 1999 Quant Results File: 8081A.RES

Quant Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Initial Calibration
DataAcq Meth : ACQ_PEST.M

Volume Inj. : 1uL
Signal #1 Phase : DB-17 Signal #2 Phase: DB-1701
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xy	5.75	5.60	256248	219005	40.600	40.813
	Spiked Amount 50.000 Range 30 - 160 Recovery =					81.20%	81.63%
29)	SC Decachlorobiphen	15.40	14.28	80804	80033	41.248	40.755
	Spiked Amount 50.000 Range 30 - 160 Recovery =					82.50%	81.51%
	Target Compounds						
2)	alpha-BHC	6.92	7.03	430191	353297	41.127	42.656
3)	gamma-BHC (Linda	7.56	7.65	392229	327622	43.771	43.027
4)	beta-BHC	7.68	8.76	159350	135566	40.386	38.910m
5)	Heptachlor	8.09	7.95	313347	279457	42.045	41.816
6)	delta-BHC	8.27	9.11	363136	287602	42.386	43.394m
7)	Aldrin	8.61	8.35	299557	265051	42.380	41.572
8)	Heptachlor Epoxi	9.49	9.40	279774	238680	42.179	41.131m
9)	gamma-Chlordane	9.74	9.85	268683	227904	41.894	41.736
10)	alpha-Chlordane	9.99	9.96	264956	228560	41.508	41.583
11)	Endosulfan I	10.04	9.79	242197	211221	40.513	41.105
12)	4,4'-DDE	10.38	10.05	273588	223281	44.123	43.516
13)	Dieldrin	10.51	10.32	276334	233422	43.539	41.792
14)	Endrin	11.06	10.62	229381	202159	43.158	43.873
15)	4,4'-DDD	11.20	11.17	222329	187263	42.737	43.297
16)	Endosulfan II	11.31	11.28	232243	207407	41.119	41.758
17)	4,4'-DDT	11.59	11.38	223636	175892	43.439	42.771
18)	Endrin Aldehyde	11.72	11.79	142369	85008	41.132	41.909
19)	Endosulfan Sulfa	11.88	12.19	207498	169272	41.589	41.437
20)	Methoxychlor	12.80	12.14	87887	88335	41.474	42.439
21)	Endrin Ketone	13.03	12.75	194007	167642	41.063	41.649
	Sum Chlordane-A			0	0	N.D.	N.D.
	Average Chlordane-A					0.000	0.000

000176

(f)=RT Delta-> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD1B.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD2A.CH
Acq On : 9-27-99 5:17:20 PM Operator: stephw
Sample : 40ppb ccv Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	S	Tetrachloro-m-xylene	40.000	40.600	-1.5	94	0.00
2		alpha-BHC	40.000	41.127	-2.8	102	0.00
3		gamma-BHC (Lindane)	40.000	43.771	-9.4	101	0.00
4		beta-BHC	40.000	40.386	-1.0	100	0.00
5		Heptachlor	40.000	42.045	-5.1	102	0.00
6		delta-BHC	40.000	42.386	-6.0	102	0.00
7		Aldrin	40.000	42.380	-6.0	99	0.00
8		Heptachlor Epoxide	40.000	42.179	-5.4	103	0.00
9		gamma-Chlordane	40.000	41.894	-4.7	99	0.00
10		alpha Chlordane	40.000	41.508	-3.8	102	0.00
11		Endosulfan I	40.000	40.513	-1.3	97	0.00
12		4,4'-DDE	40.000	44.123	-10.3	106	0.00
		Dieldrin	40.000	43.539	-8.8	104	0.00
14		Endrin	40.000	43.158	-7.9	104	0.00
15		4,4'-DDD	40.000	42.737	-6.8	104	0.00
16		Endosulfan II	40.000	41.119	-2.8	103	0.00
17		4,4'-DDT	40.000	43.439	-8.6	107	0.00
18		Endrin Aldehyde	40.000	41.132	-2.8	102	0.00
19		Endosulfan Sulfate	40.000	41.589	-4.0	105	0.00
20		Methoxychlor	40.000	41.474	-3.7	108	0.00
21		Endrin Ketone	40.000	41.063	-2.7	103	0.00
29	SC	Decachlorobiphenyl	40.000	41.248	-3.1	108	0.00

Signal #2

1	S	Tetrachloro-m-xylene	40.000	40.813	-2.0	99	0.00
2		alpha-BHC	40.000	42.656	-6.6	101	0.00
3		gamma-BHC (Lindane)	40.000	43.027	-7.6	101	0.00
4		beta-BHC	40.000	38.910	2.7	99	0.00
5		Heptachlor	40.000	41.816	-4.5	102	0.00
6		delta-BHC	40.000	43.394	-8.5	104	0.00
7		Aldrin	40.000	41.572	-3.9	99	0.00
8		Heptachlor Epoxide	40.000	41.131	-2.8	101	0.00
9		gamma-Chlordane	40.000	41.736	-4.3	102	0.00
10		alpha-Chlordane	40.000	41.583	-4.0	102	0.00
11		Endosulfan I	40.000	41.105	-2.8	100	0.00
12		4,4'-DDE	40.000	43.516	-8.8	104	0.00
		Dieldrin	40.000	41.792	-4.5	101	0.00
14		Endrin	40.000	43.873	-9.7	106	0.00
15		4,4'-DDD	40.000	43.297	-8.2	107	0.00

(#) = Out of Range

00179

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD1B.CH Vial: 17
Signal #2 : C:\HPCHEM\1\DATA\0927PEST\ST00710.D\ECD2A.CH
Acq On : 9-27-99 5:17:20 PM Operator: stephw
Sample : 40ppb ccv Inst : ECD 3
Misc : op956,gst28,water,,,10, Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: EVENTS2.E

Method : C:\HPCHEM\1\METHODS\8081A.M (Chemstation Integrator)
Title : Pesticides by 608 or 8081
Last Update : Mon Sep 27 12:31:51 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
16	Endosulfan II	40.000	41.758	-4.4	104	0.00
17	4,4'-DDT	40.000	42.771	-6.9	107	0.00
18	Endrin Aldehyde	40.000	41.909	-4.8	105	0.00
19	Endosulfan Sulfate	40.000	41.437	-3.6	105	0.00
20	Methoxychlor	40.000	42.439	-6.1	107	0.00
21	Endrin Ketone	40.000	41.649	-4.1	104	0.00
29 SC	Decachlorobiphenyl	40.000	40.755	-1.9	108	0.00

000156

SEQUENCE LOG SUMMARY

Sequence Name: C:\HPCHEM\1\SEQUENCE\0927pest.S
Comment:
Operator: stephw
Data Path: C:\HPCHEM\1\DATA\0927pest\
Pre-Seq Cmd:
Post-Seq Cmd:

gst 28

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	1	ST00694	ACQ_PEST	cond std
2	Sample	2	ST00695	ACQ_PEST	ddt/endrin breakdown p458
3	Sample	3	ST00696	ACQ_PEST	40ppb pest ccv p471
4	Sample	4	ST00697	ACQ_PEST	5ppb pest p471
5	Sample	5	ST00698	ACQ_PEST	10ppb pest p471
6	Sample	6	ST00699	ACQ_PEST	20ppb pest p471
7	Sample	7	ST00700	ACQ_PEST	60ppb pest p471
8	Sample	8	ST00701	ACQ_PEST	80ppb pest p471
9	Sample	9	ST00702	ACQ_PEST	500ppb toxaphene p459
10	Sample	10	ST00703	ACQ_PEST	200ppb chlordane p460
11	Sample	11	ST00704	ACQ_PEST	op956-mb5
12	Sample	12	ST00705	ACQ_PEST	op956-bs5
13	Sample	13	ST00706	ACQ_PEST	F4929-1
14	Sample	14	ST00707	ACQ_PEST	F4941-1
15	Sample	15	ST00708	ACQ_PEST	F4947-1,10x
16	Sample	16	ST00709	ACQ_PEST	F4947-1,40x
17	Sample	17	ST00710	ACQ_PEST	40ppb ccv

GC ANALYSIS LOG

DATE: 9-27-99	METHODS: 8081	ANALYST: SW
COLUMN TYPE: DB17/1701	METHOD FILE: 8081A	RUN BATCH: GST 28
INSTRUMENT: ECD 3	CALIB. DATE: 9-27-99	AMOUNT INJECTED: 1 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	SAMPLE AMOUNT	MATRIX	EXT. BATCH	DILUTION FACTOR	RUN OK	COMMENTS
ST00694	1	cond Std	8081					✓	
695	2	ddt/endrin bd			p458		50:500	✓	passed
696	3	40 ppb pest ccv			p471		40:1000	✓	recal
697	4	5 ppb pest					5:1000	✓	
698	5	10 ppb pest					10:1000	✓	
699	6	20 ppb pest					20:1000	✓	
700	7	60 ppb pest					60:1000	✓	
701	8	80 ppb pest					80:1000	✓	passed; RSD<20%
702	9	500 ppb tox			p459		50:500	✓	updated
703	10	200 ppb chlor			p460		40:1000	✓	↓
704	11	OP956-mb5		500ml/5ml	W	OP956	1x	✓	ND
705	12	-bss						✓	✓
706	13	F4929-1						✓	ND
707	14	F4941-1						✓	ND
708	15	F4947-1		50ml/5ml			10x	✓	Report Endosulfan II only
709	16	-1					40x	✓	Endo I
710	17	40 ppb ccv						✓	passed

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature [signature]

EXTRACTION LOG SUMMARY

SGC.08

LIQUID SAMPLE PREP REPORT

Date: 9.27.99 Method*: 8081- Pest Batch#: OP 956

Batch Started On: 8.31.99 Prior Number Of Samples in Batch : 16 Analyst: NJ/VH/HS/RA

Sample ID	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP956MB5	500	7	N/A	0.5 ml		5.0 ml	
BS5	↓	↓	↓	↓	0.5 ml	↓	
F4929-1	↓	↓	↓	↓		↓	
F4941-1	↓	↓	↓	↓		↓	
F4947-1	50/500	↓	↓	↓		↓	diluted due to matrix
MS							
MSD							
DUP							

Surrogate ID: E465 Conc: 500 ppb Exp. Date: 3.22.00 Bath Temp.: 70°C

Spike ID: E456 Conc: 500 ppb Exp. Date: 3.10.00 Bath Temp2.: 90°C

CH2CL2 Lot #: 994655 Hexane Lot # 39116 Other (specify)

Reagent # ER-003 Reagent # 992226 Isopropanol Reagent #

Comments: Bath Temp. 70° - final @ 90°C

000183

Relinquished By: [signature] Date: 9-27-99

Accepted By: [signature] Date: 9-27-99

*Prep method for SW846 methods is 3510C for waters and 3580A for non-aqueous liquids.

SAMPLE RESULT SUMMARY

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
Method:	SW846 8015 M	**Percent Solids:**	n/a
Project:	Bainbridge		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	OP05296.D	1	09/27/99	ME	09/27/99	OP986	GOP254
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C10-C28)	ND	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		40-140%

(a) Sample not preserved, adjusted to pH < 2 prior to extraction.

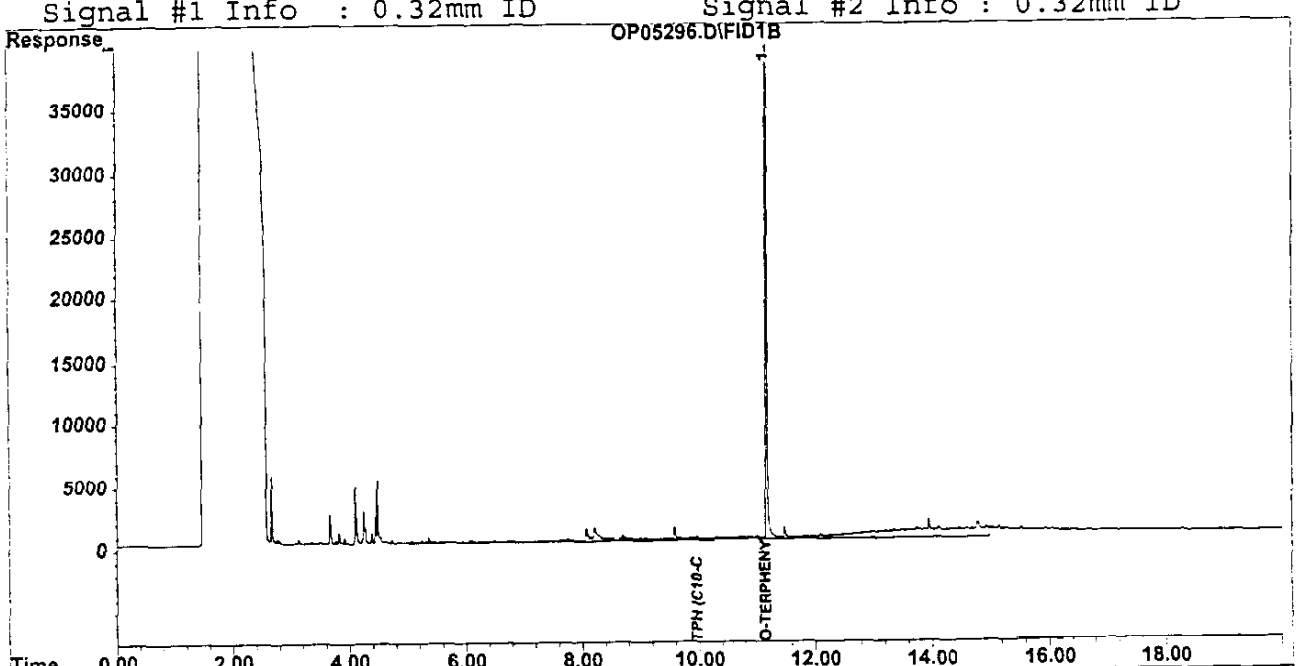
ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

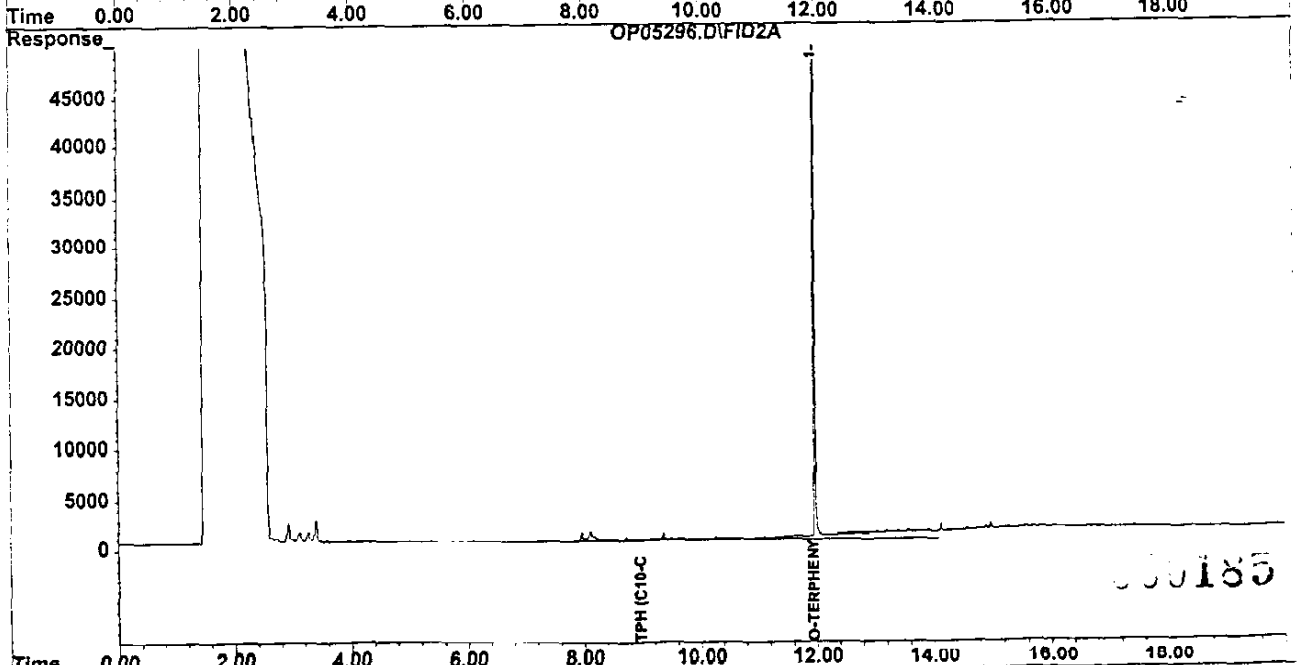
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05296.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05296.D\FID2A.CH
Acq On : 27 Sep 1999 3:52 pm Operator: marke
Sample : f4941-1 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 16:34 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05296.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05296.D\FID2A.CH
Acq On : 27 Sep 1999 3:52 pm Operator: marke
Sample : f4941-1 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 16:34 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.98	1624380	1611353	45.813	46.247
Spiked Amount 50.000 Range 40 - 140 Recovery =					91.63%	92.49%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	1469783	1192323	~~43.683~~	~~38.539~~

BAL

000186

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

SURROGATE RECOVERIES SUMMARY

SGC.02

Semivolatile Surrogate Recovery Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Method: SW846 8015 M **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F4941-1	OP05296.D	92.0
OP986-BS3	OP05299.D	96.0
OP986-MB3	OP05298.D	86.0
OP986-MS	IJ09631.D	92.0
OP986-MSD	IJ09632.D	99.0
OP986-MB	IJ09627.D	100.0

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%

(a) Recovery from GC signal #1

MATRIX SPIKE/ MATRIX SPIKE DUPLICATE/ BLANK SPIKE SUMMARY

SGC.03

Blank Spike Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP986-BS3	OP05299.D	1	09/27/99	ME	09/27/99	OP986	GOP254

The QC reported here applies to the following samples: **Method:** SW846 8015 M

F4941-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C28)	2	1.93	96	40-140

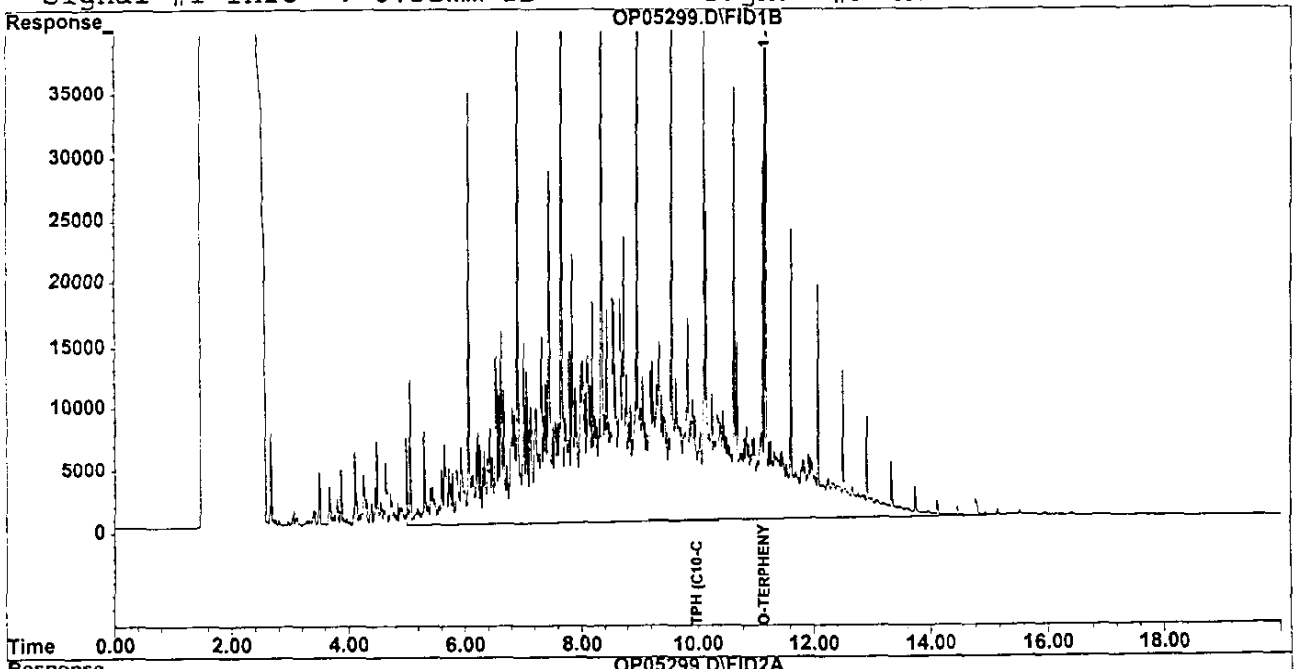
CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	96%	40-140%

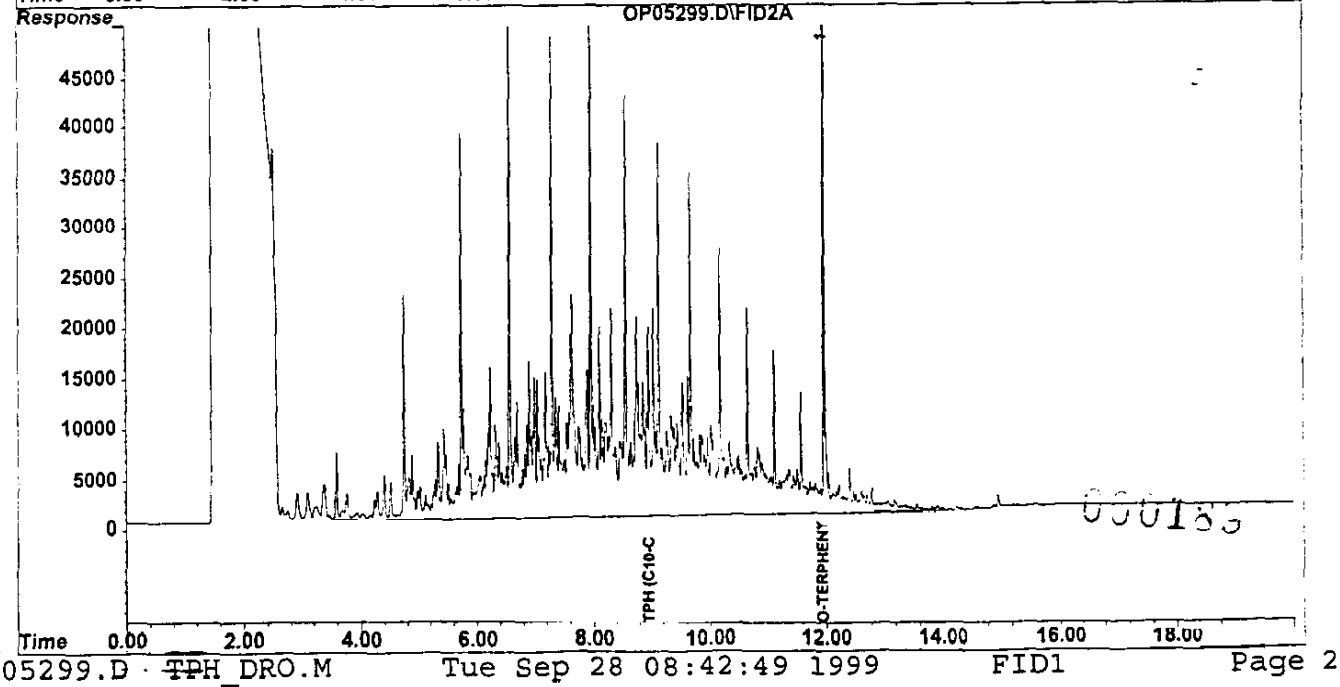
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05299.D\FID1B.CH Vial: 8
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05299.D\FID2A.CH
Acq On : 27 Sep 1999 5:21 pm Operator: marke
Sample : op986-bs3 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:42 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05299.D\FID1B.CH Vial: 8
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05299.D\FID2A.CH
Acq On : 27 Sep 1999 5:21 pm Operator: marke
Sample : op986-bs3 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:42 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.97	1699062	1753013	47.919m	50.312m
Spiked Amount 50.000 Range 40 - 140 Recovery =					95.84%	100.62%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	32472414	29662024	965.105	958.760

000130

(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP986-MS	IJ09631.D	1	09/17/99	ME	09/17/99	OP986	GIJ435
OP986-MSD	IJ09632.D	1	09/17/99	ME	09/17/99	OP986	GIJ435
F4900-2 [a]	IJ09630.D	1	09/17/99	ME	09/17/99	OP986	GIJ435

The QC reported here applies to the following samples: **Method:** SW846 8015 M

F4941-1

CAS No.	Compound	F4900-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	ND		4	4.06	102	4.13	103	2	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	F4900-2	Limits
84-15-1	o-Terphenyl	92%	99%	96%	40-140%

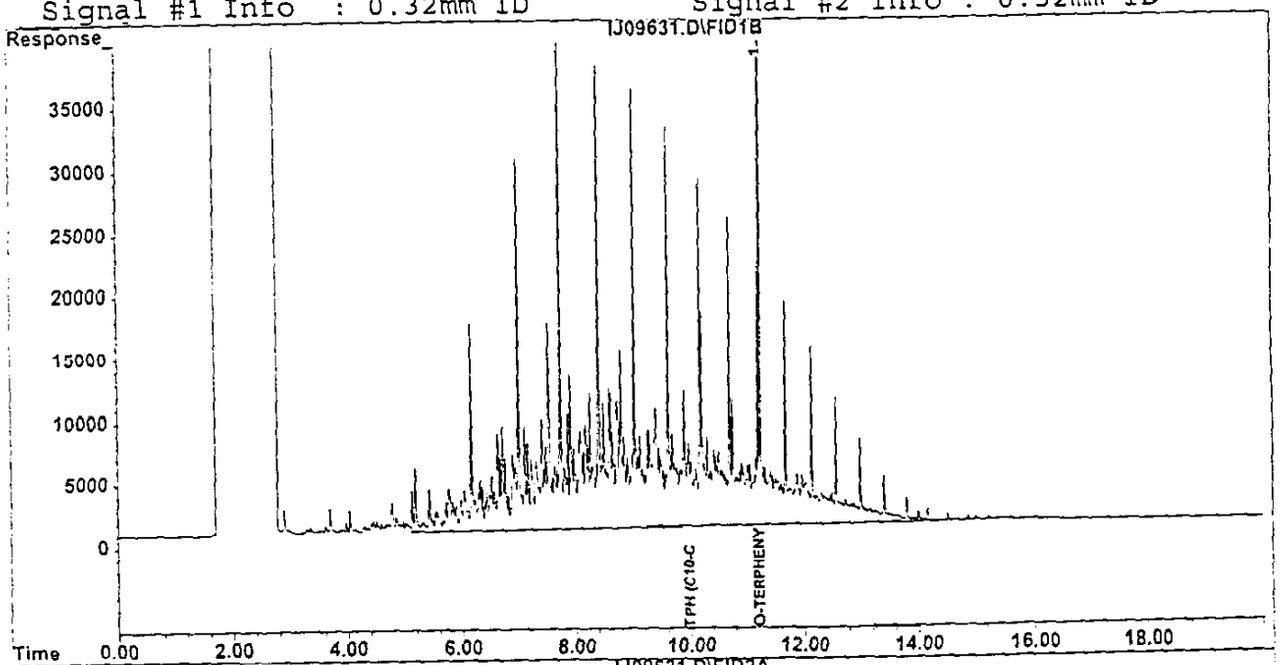
(a) Sample not preserved, adjusted to pH < 2 prior to extraction.

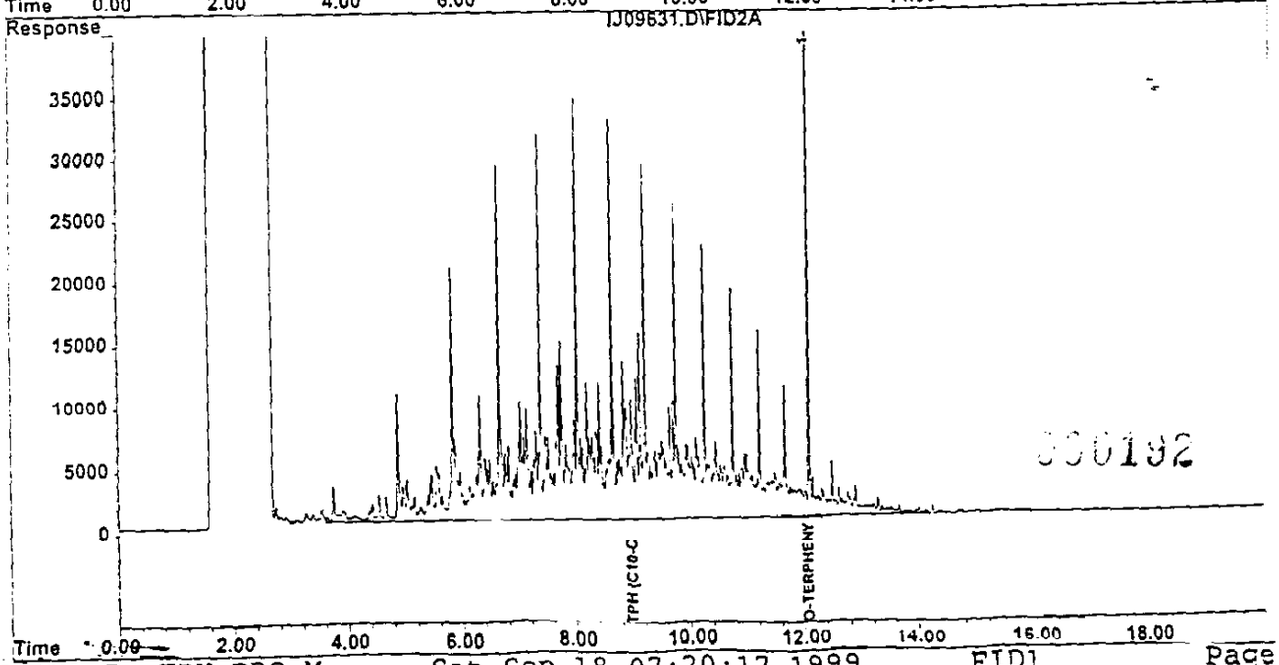
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0917DRO\IJ09631.D\FID1B.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\0917DRO\IJ09631.D\FID2A.CH
Acq On : 17 Sep 1999 7:33 pm Operator: marke
Sample : op986-ms Inst : FID 1
Misc : op986,gij435,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 19:53 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Fri Sep 17 17:20:15 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000192

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0917DRO\IJ09631.D\FID1B.CH Vial: 12
Signal #2 : C:\HPCHEM\1\DATA\0917DRO\IJ09631.D\FID2A.CH
Acq On : 17 Sep 1999 7:33 pm Operator: marke
Sample : op986-ms Inst : FID 1
Misc : op986,gij435,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 19:53 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Fri Sep 17 17:20:15 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.25	12.10	1038242	1185721	46.199	47.886
Spiked Amount 50.000 Range 40 - 140 Recovery =					92.40%	95.77%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	20794195	19944273	1015.647	1019.703

000103

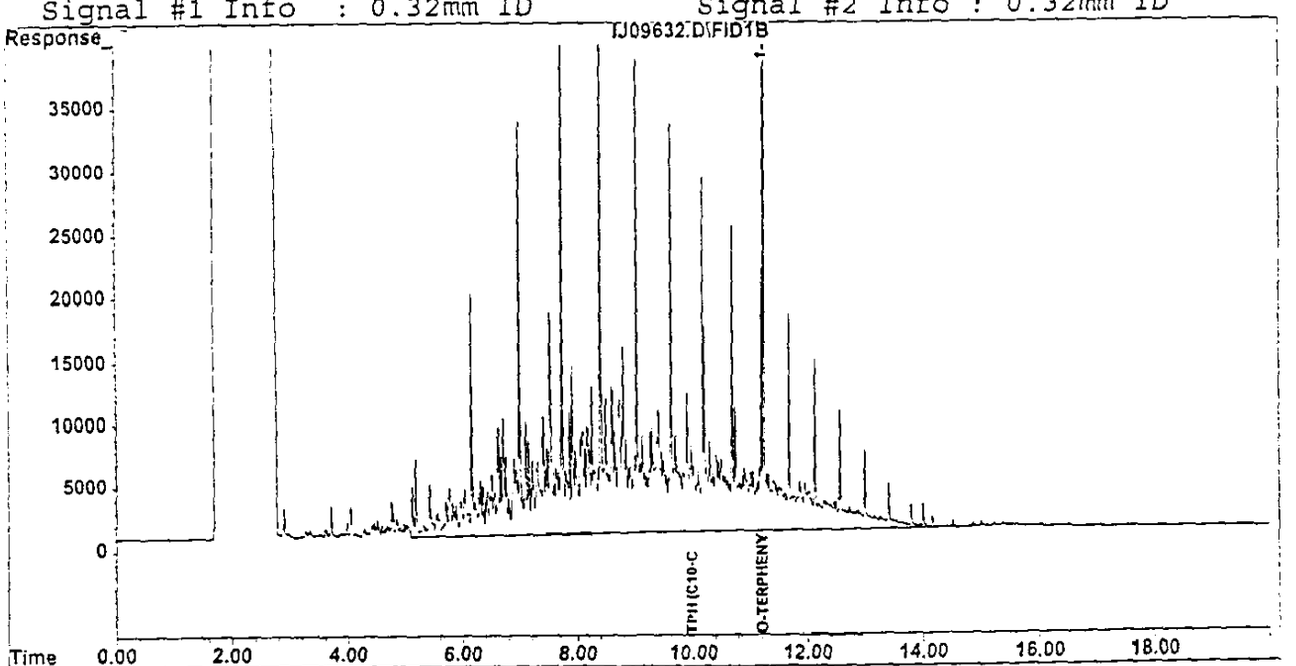
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

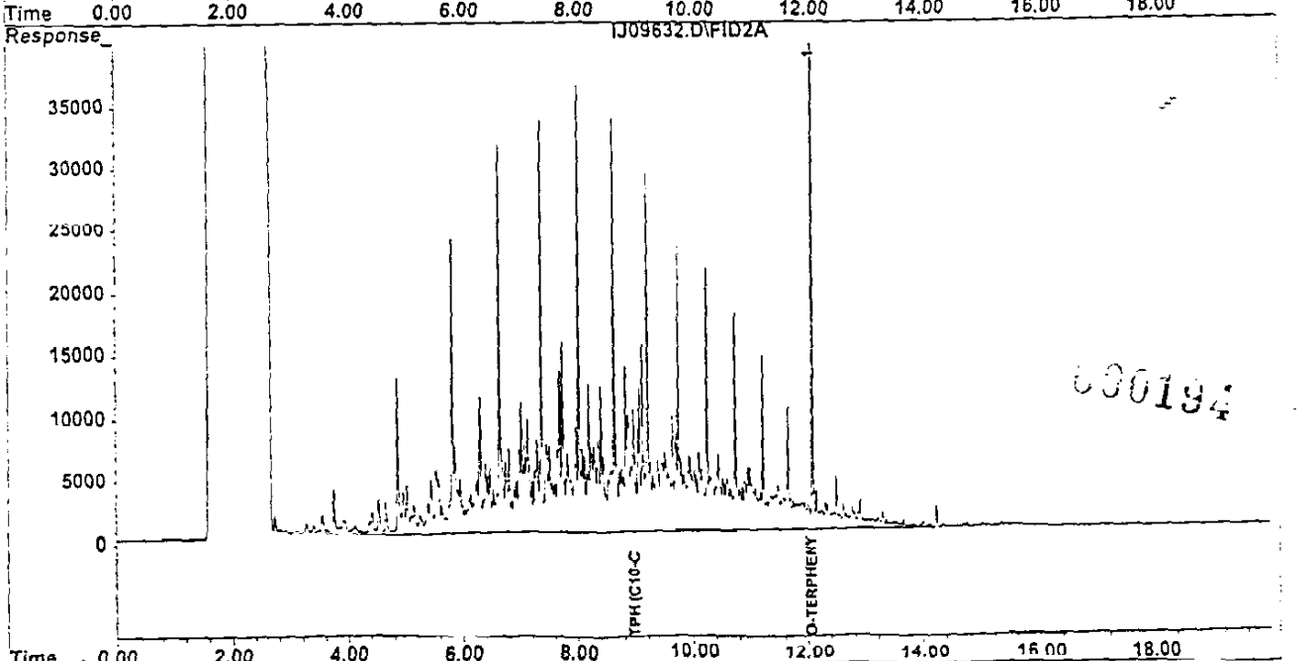
Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\0917DRO\IJ09632.D\FID1B.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\0917DRO\IJ09632.D\FID2A.CH
Acq On : 17 Sep 1999 7:59 pm Operator: marke
Sample : op986-msd Inst : FID 1
Misc : op986,gij435,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 20:19 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Fri Sep 17 17:20:15 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000194

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\0917DRO\IJ09632.D\FID1B.CH Vial: 13
Signal #2 : C:\HPCHEM\1\DATA\0917DRO\IJ09632.D\FID2A.CH
Acq On : 17 Sep 1999 7:59 pm Operator: marke
Sample : op986-msd Inst : FID 1
Misc : op986,gij435,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 17 20:19 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\1\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Fri Sep 17 17:20:15 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.25	12.09	1113506	1187473	49.548	47.957
Spiked Amount 50.000 Range 40 - 140 Recovery =					99.10%	95.91%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	21161656	20404070	1033.595	1043.211

00135

(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

METHOD BLANK SUMMARY

SGC.04

Method Blank Summary

Job Number: F4941
Account: ITPAMONR IT Corporation
Project: Bainbridge

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP986-MB3	OP05298.D	1	09/27/99	ME	09/27/99	OP986	GOP254

The QC reported here applies to the following samples: **Method:** SW846 8015 M

F4941-1

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C10-C28)	ND	0.50	mg/l	

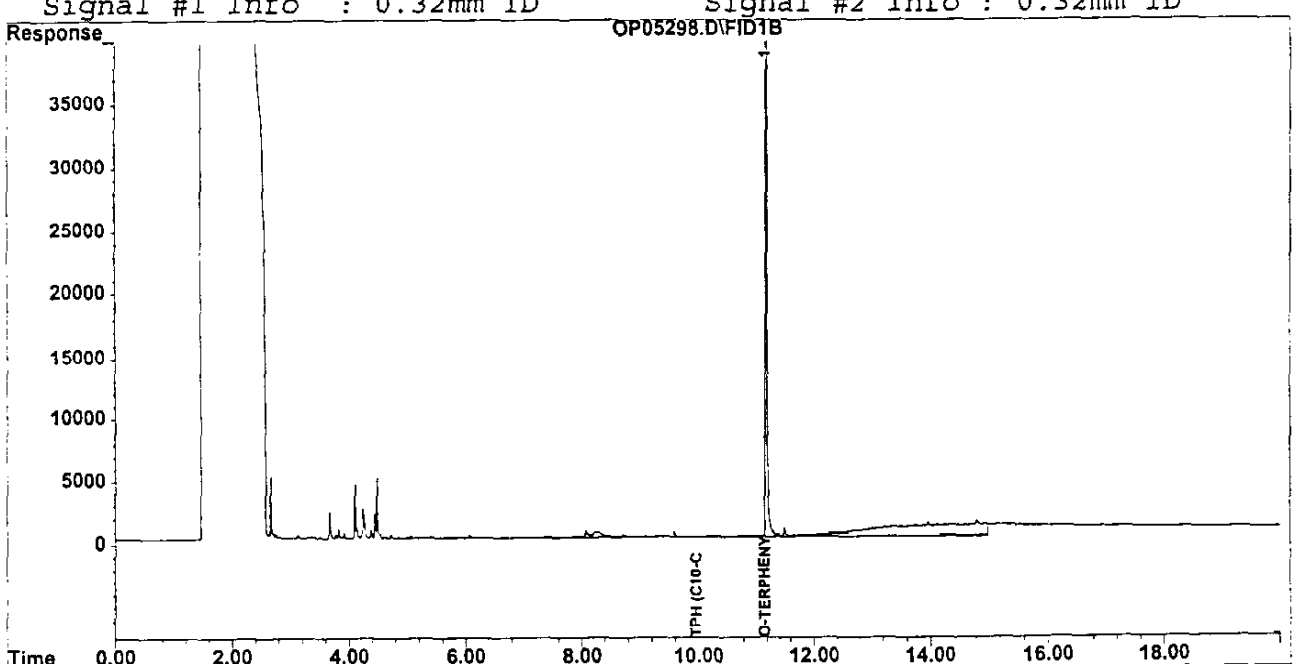
CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	40-140%

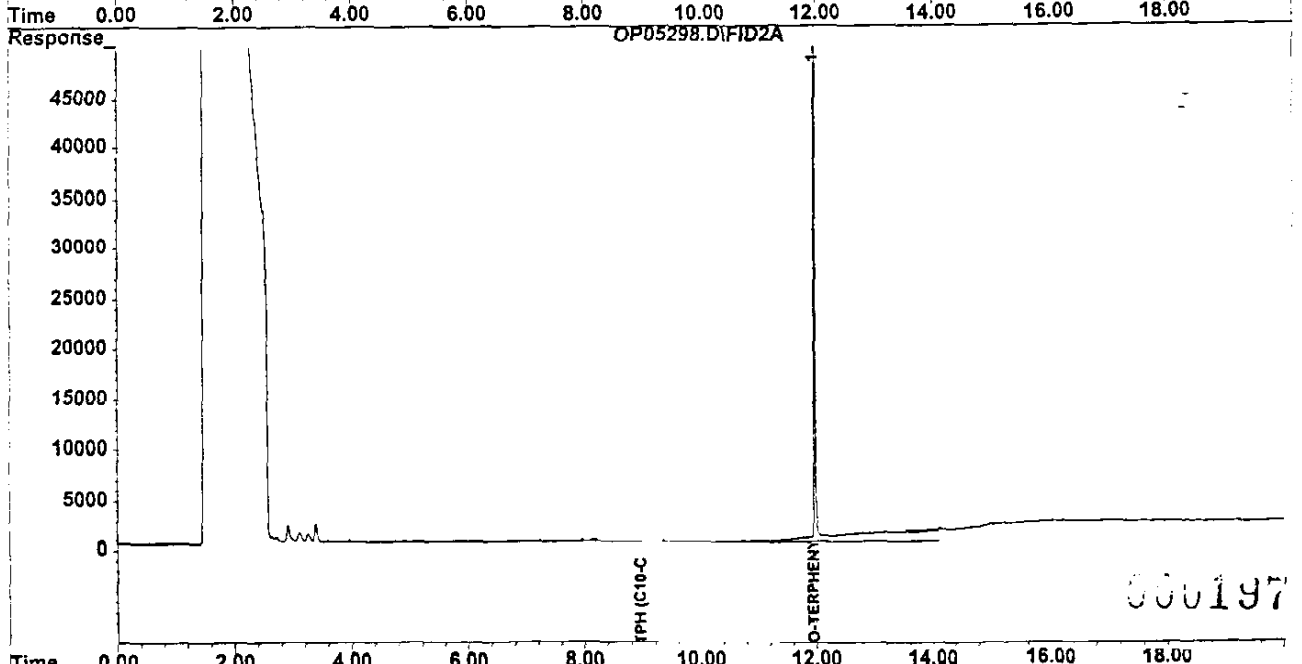
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05298.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05298.D\FID2A.CH
Acq On : 27 Sep 1999 4:54 pm Operator: marke
Sample : op986-mb3 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:23 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000197

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05298.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05298.D\FID2A.CH
Acq On : 27 Sep 1999 4:54 pm Operator: marke
Sample : op986-mb3 Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:23 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.97	1521187	1500048	42.903	43.052
Spiked Amount 50.000 Range 40 - 140 Recovery =					85.81%	86.10%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	1424044	1376630	~~42.324~~	~~44.497~~

BNL

000198

(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

INITIAL CALIBRATION SUMMARY

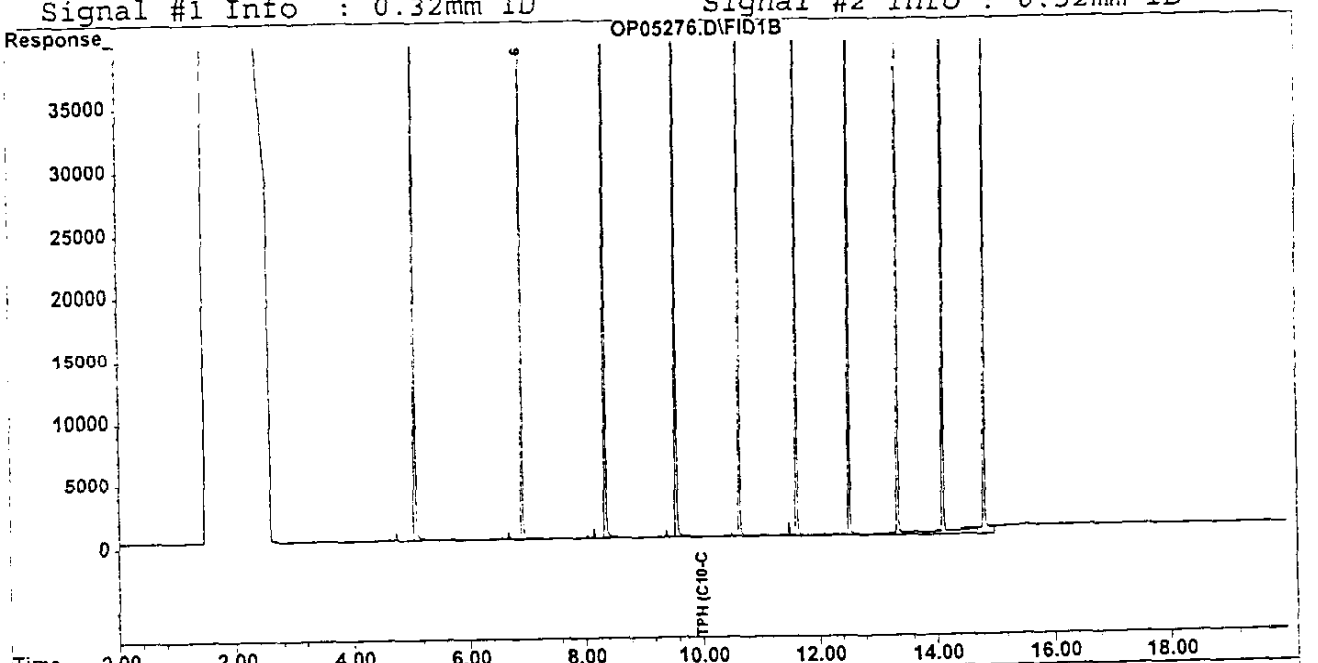
SGC.05

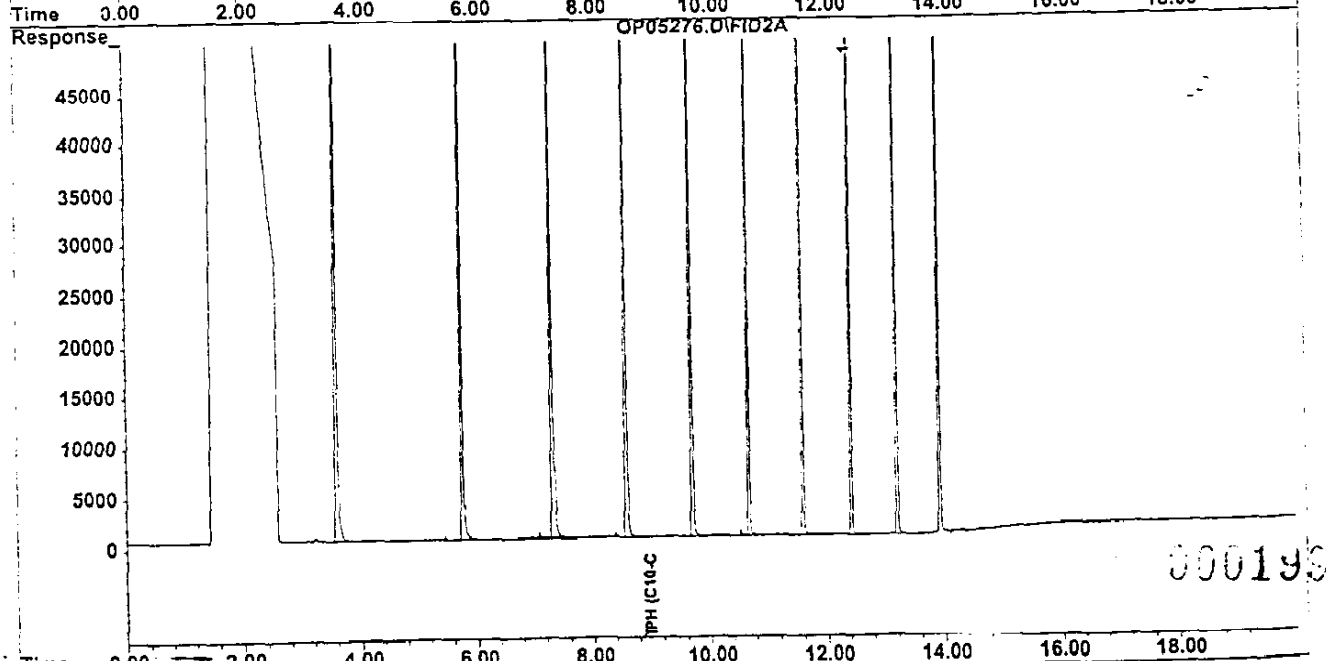
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05276.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05276.D\FID2A.CH
Acq On : 23 Sep 1999 9:25 am Operator: marke
Sample : dro rt std c10-c28 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 9:48 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 09:48:04 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000195

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05276.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05276.D\FID2A.CH
Acq On : 23 Sep 1999 9:25 am Operator: marke
Sample : dro rt std c10-c28 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 9:48 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 09:48:04 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	50.000	Range	40 - 140	Recovery	=	0.00%# 0.00%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	17101271	16570050	576.525	620.494

000200

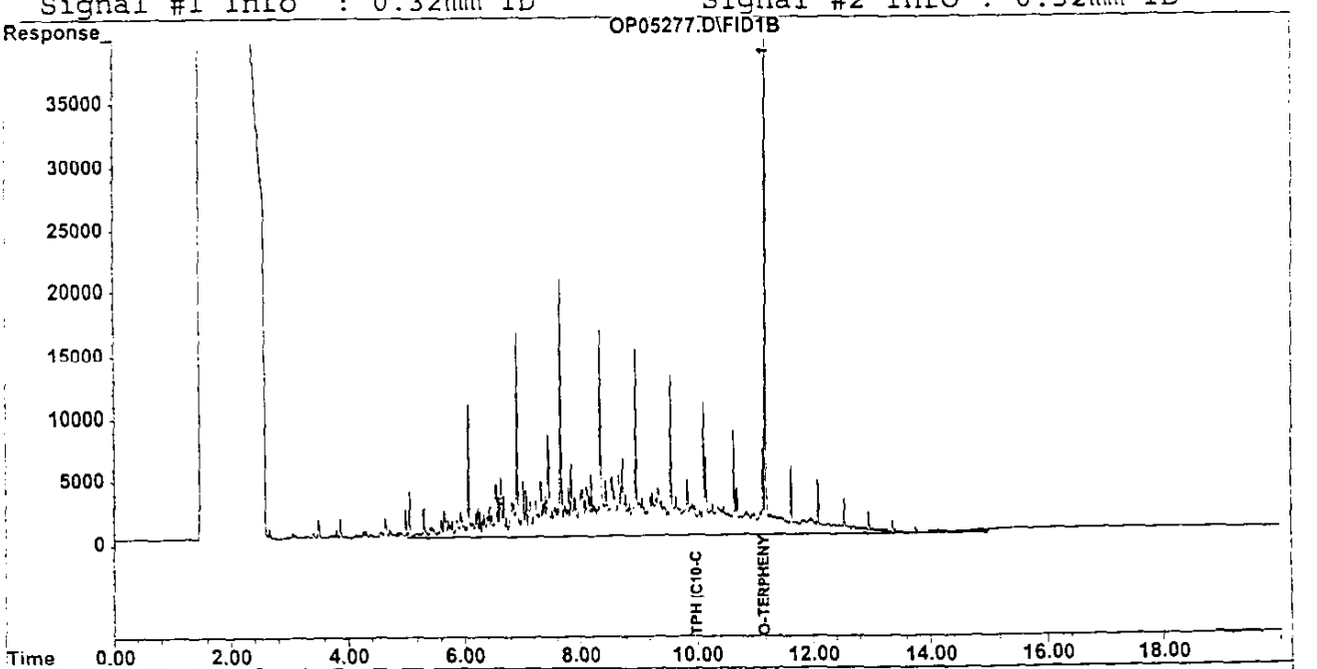
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

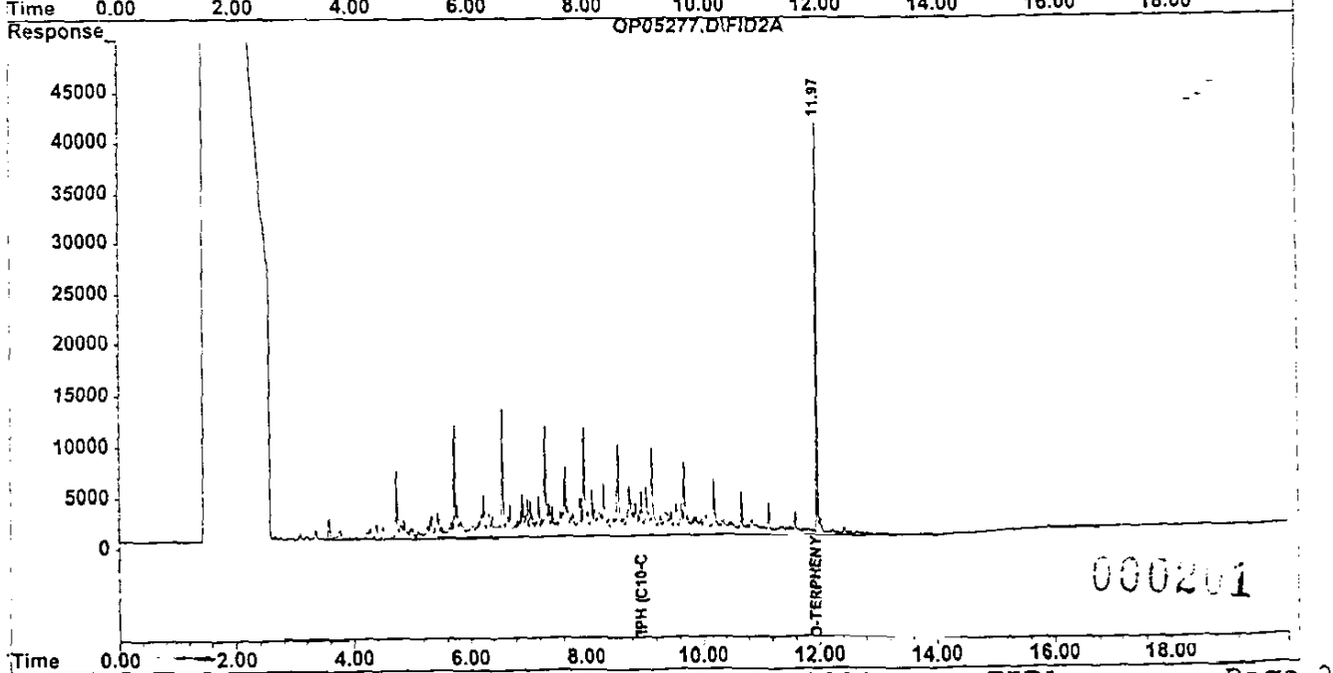
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05277.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05277.D\FID2A.CH
Acq On : 23 Sep 1999 9:51 am Operator: marke
Sample : 250ppm dro s650 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 10:16 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000201

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05277.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05277.D\FID2A.CH
Acq On : 23 Sep 1999 9:51 am Operator: marke
Sample : 250ppm dro s650 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 10:16 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.97	466109	458617	14.932	14.490m
Spiked Amount	50.000	Range	40 - 140	Recovery	= 29.86%#	28.98%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	8909363	7876848	300.356	294.962

000202

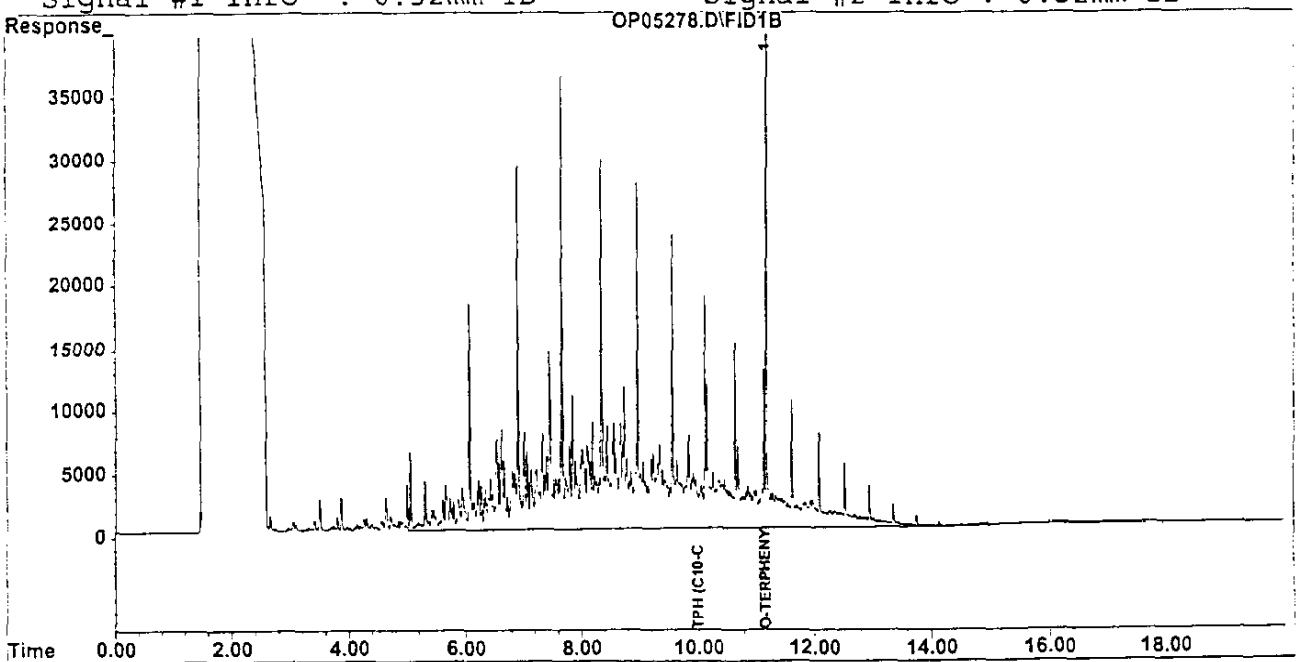
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

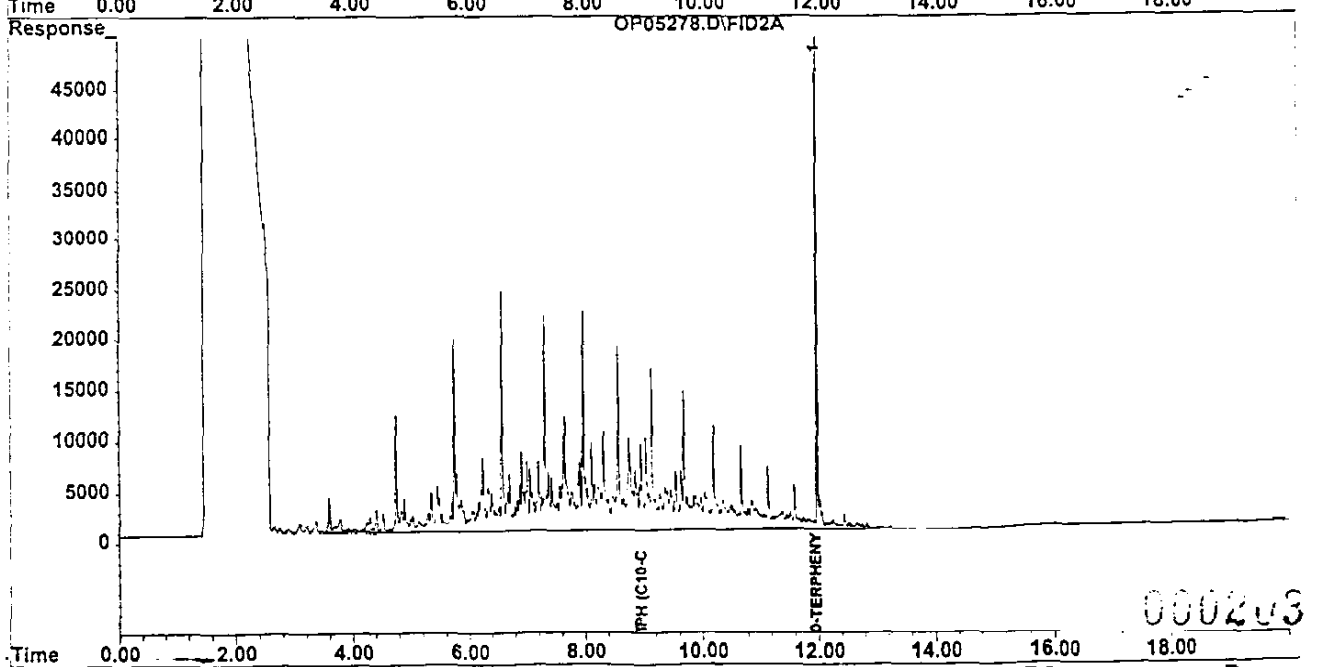
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05278.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05278.D\FID2A.CH
Acq On : 23 Sep 1999 10:18 am Operator: marke
Sample : 500ppm dro s649 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 10:39 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000203

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05278.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05278.D\FID2A.CH
Acq On : 23 Sep 1999 10:18 am Operator: marke
Sample : 500ppm dro s649 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 10:39 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.98	831658	798595	26.044	24.827
Spiked Amount 50.000 Range 40 - 140 Recovery =					52.09%	49.65%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	15575475	14120608	510.959	512.721

000204

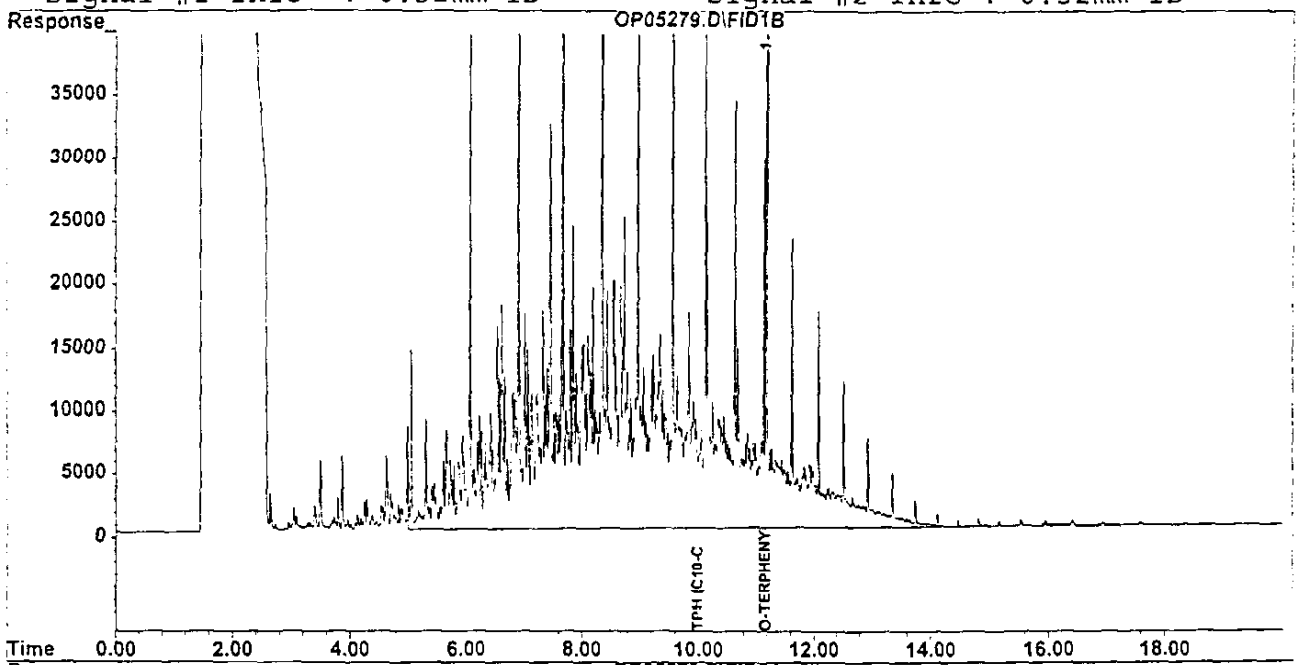
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

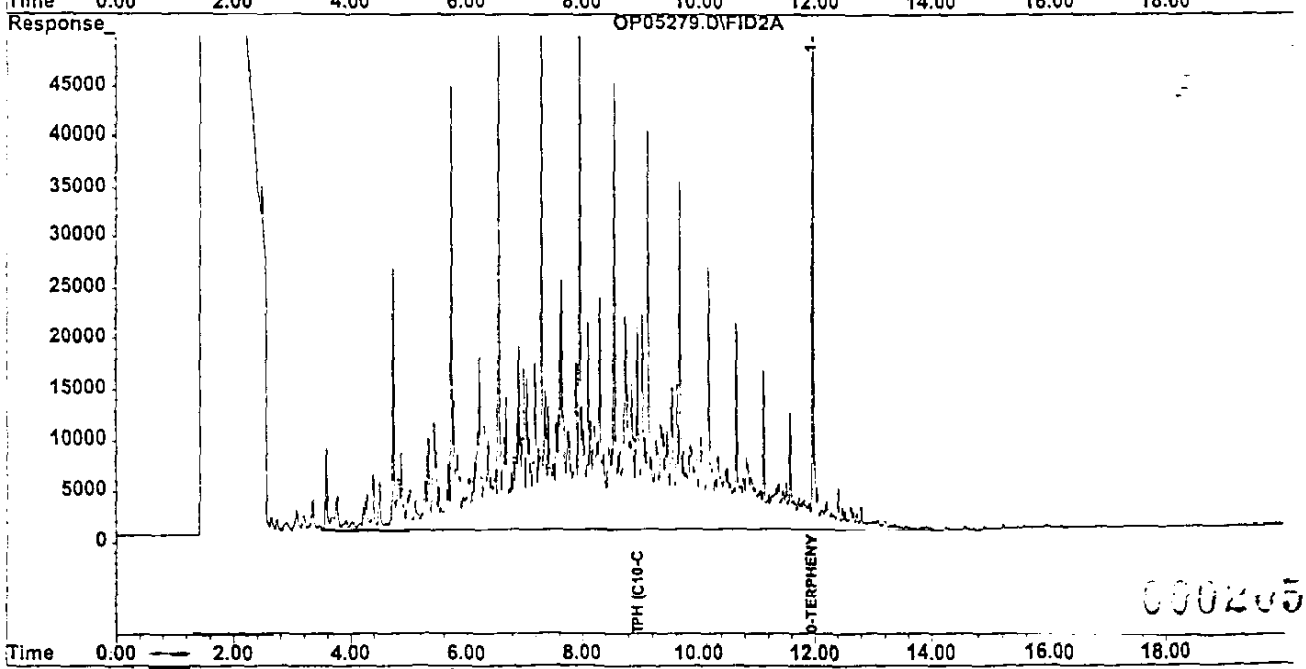
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05279.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05279.D\FID2A.CH
Acq On : 23 Sep 1999 10:44 am Operator: marke
Sample : 1000ppm dro s648 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 11:08 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000205

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05279.D\FID1B.CH Vial: 4
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05279.D\FID2A.CH
Acq On : 23 Sep 1999 10:44 am Operator: marke
Sample : 1000ppm dro s648 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 11:08 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.98	1853565	1818328	55.974m	55.111
Spiked Amount 50.000 Range 40 - 140 Recovery =					111.95%	110.22%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	35155756	32699857	1113.763	1140.819

000206

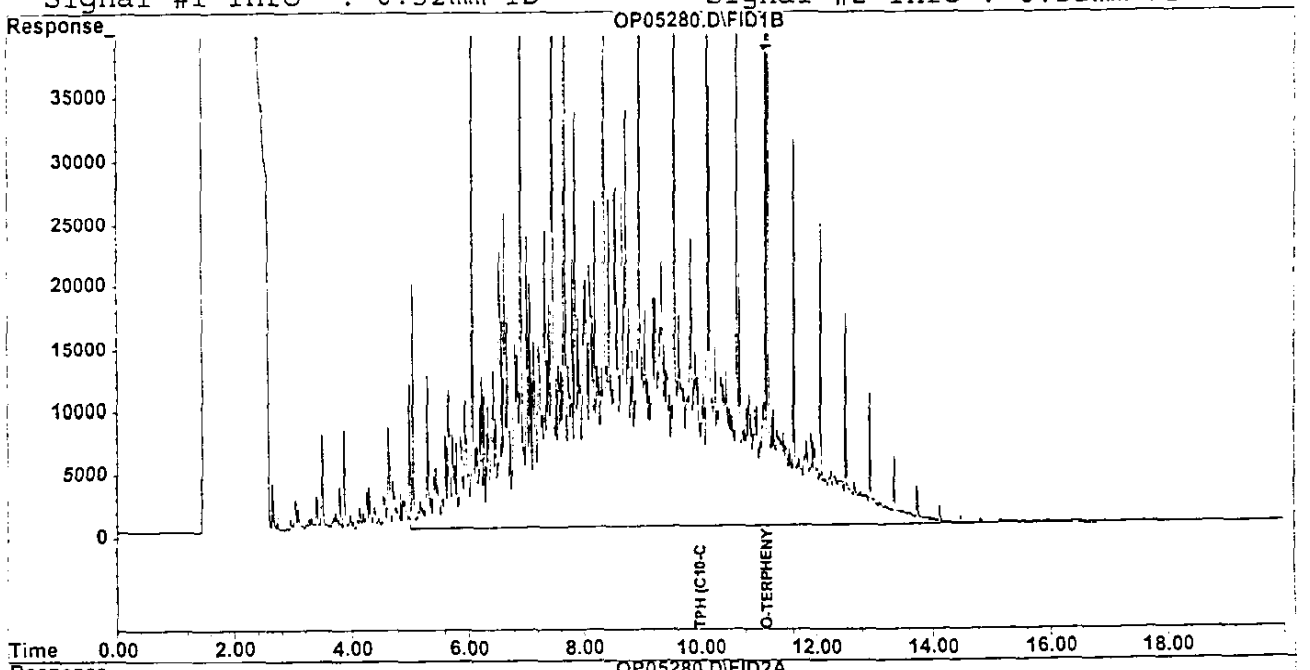
(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

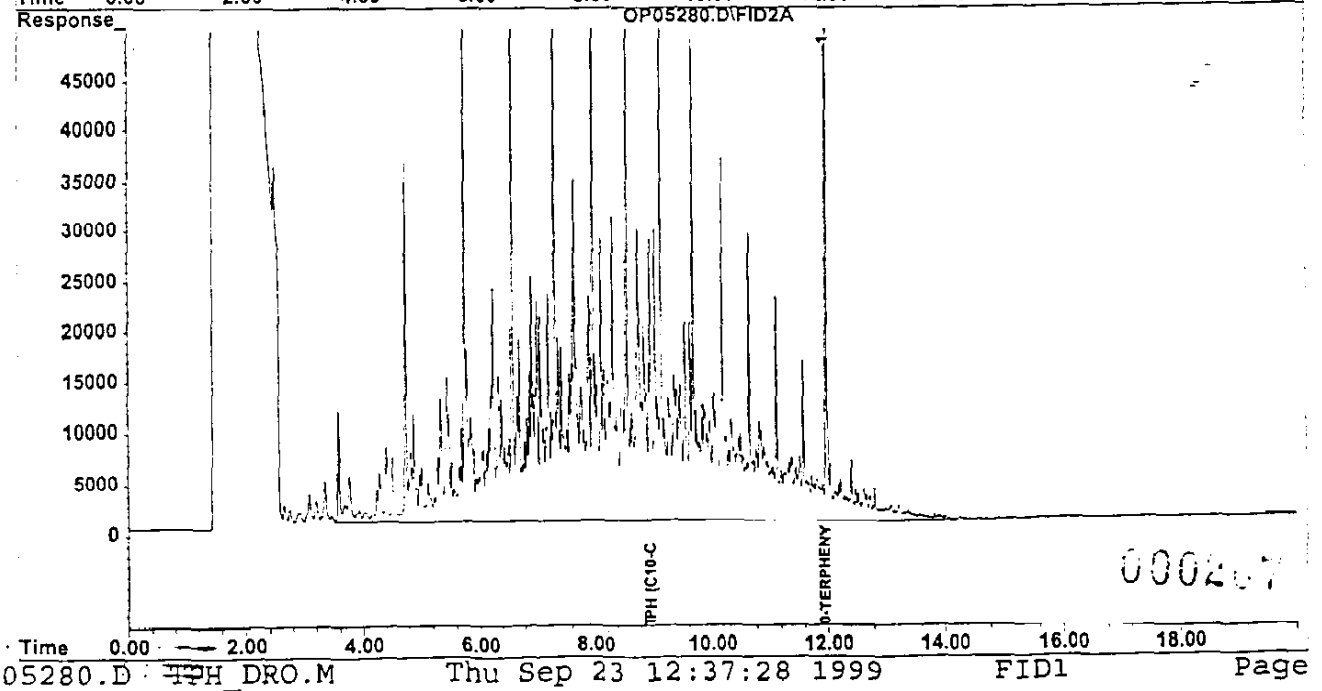
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05280.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05280.D\FID2A.CH
Acq On : 23 Sep 1999 11:11 am Operator: marke
Sample : 1500ppm dro s647 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:32 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05280.D\FID1B.CH Vial: 5
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05280.D\FID2A.CH
Acq On : 23 Sep 1999 11:11 am Operator: marke
Sample : 1500ppm dro s647 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:32 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.98	2512529	2518080	74.018m	74.819m
Spiked Amount 50.000 Range 40 - 140 Recovery =					148.04%#	149.64%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	47977381	44934506	1482.245	1521.702

000208

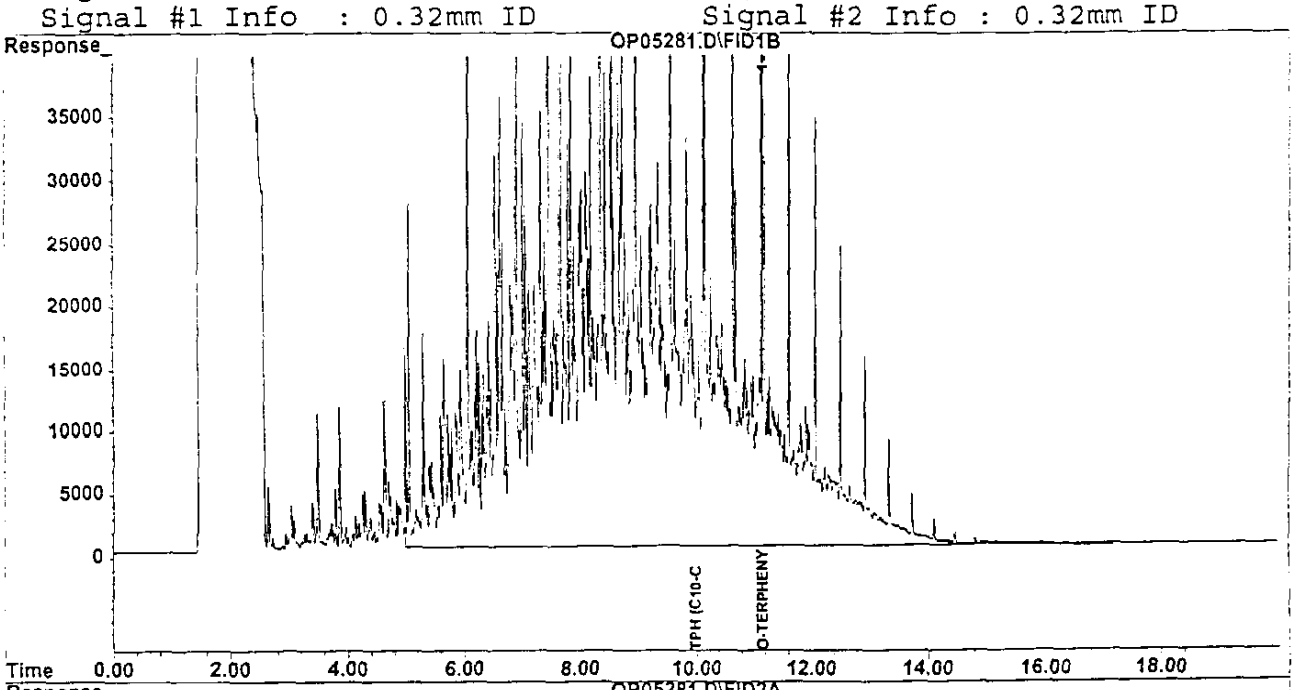
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

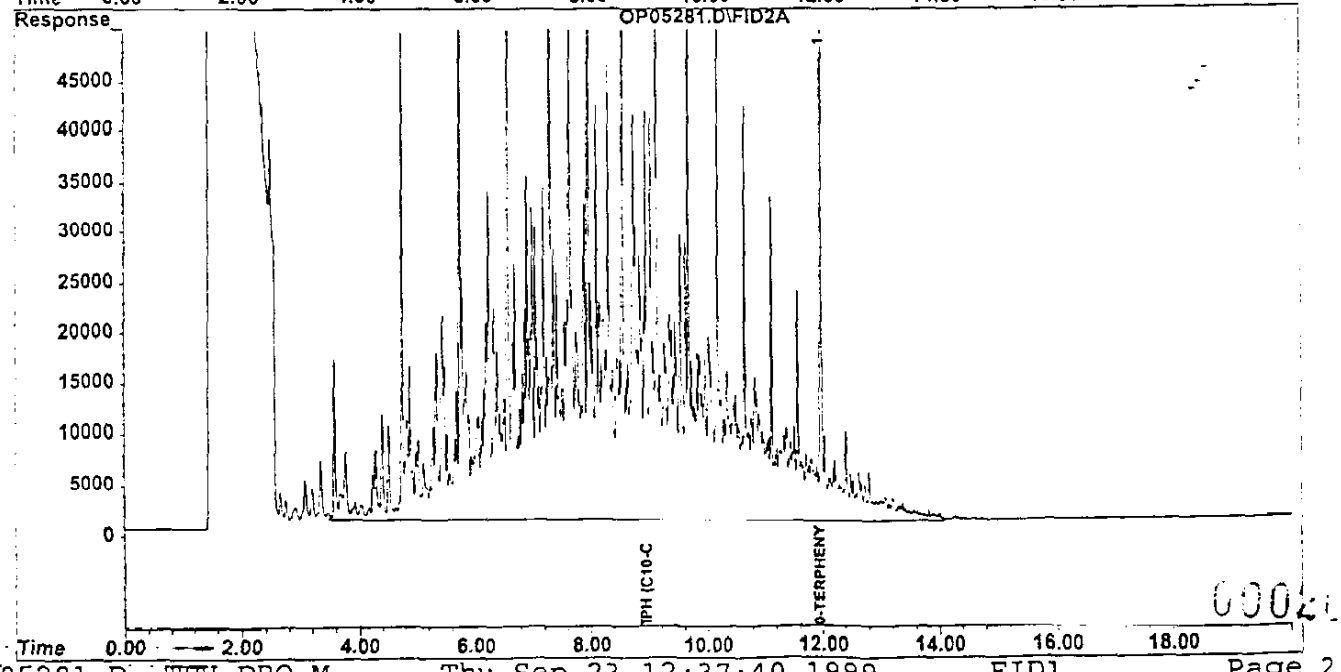
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05281.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05281.D\FID2A.CH
Acq On : 23 Sep 1999 11:38 am Operator: marke
Sample : 2000ppm dro s646 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:33 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05281.D\FID1B.CH Vial: 6
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05281.D\FID2A.CH
Acq On : 23 Sep 1999 11:38 am Operator: marke
Sample : 2000ppm dro s646 Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:33 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.20	11.98	3615738	3563867	104.009m	103.750m
Spiked Amount 50.000 Range 40 - 140 Recovery =					208.02%#	207.50%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	68607096	64569269	2071.856	2127.610

(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Response Factor Report FID 2

Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 12:34:11 1999

Calibration Files
1 =OP05277.D 2 =OP05278.D 3 =OP05279.D
4 =OP05280.D 5 =OP05281.D

	Compound	1	2	3	4	5	Avg		%RSD
1) S	O-TERPHENYL	3.729	3.327	3.707	3.350	3.616	3.546	E4	5.48
2) H	TPH (C10-C28)	3.564	3.115	3.516	3.198	3.430	3.365	E4	5.88

Signal #2 Calibration Files
1 =OP05277.D 2 =OP05278.D 3 =OP05279.D
4 =OP05280.D 5 =OP05281.D

	Compound	1	2	3	4	5	Avg		%RSD
1) S	O-TERPHENYL	3.669	3.194	3.637	3.357	3.564	3.484	E4	5.81
2) H	TPH (C10-C28)	3.151	2.824	3.270	2.996	3.228	3.094	E4	5.93

000211

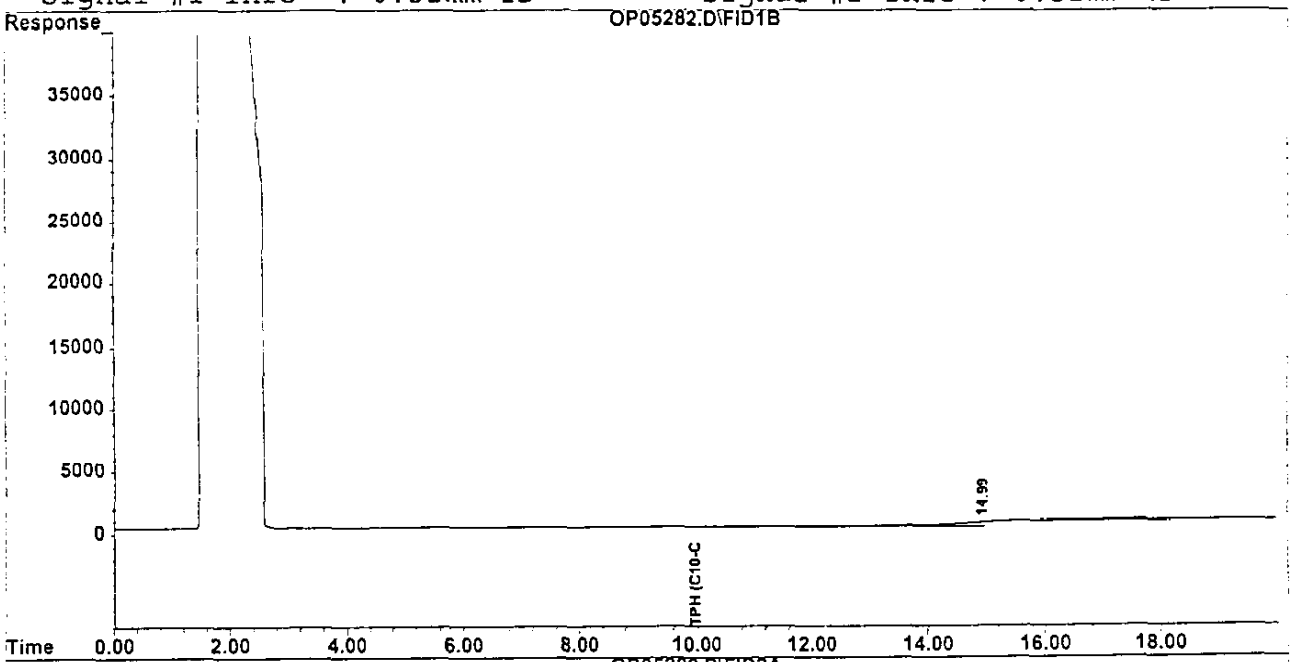
(#) = Out of Range

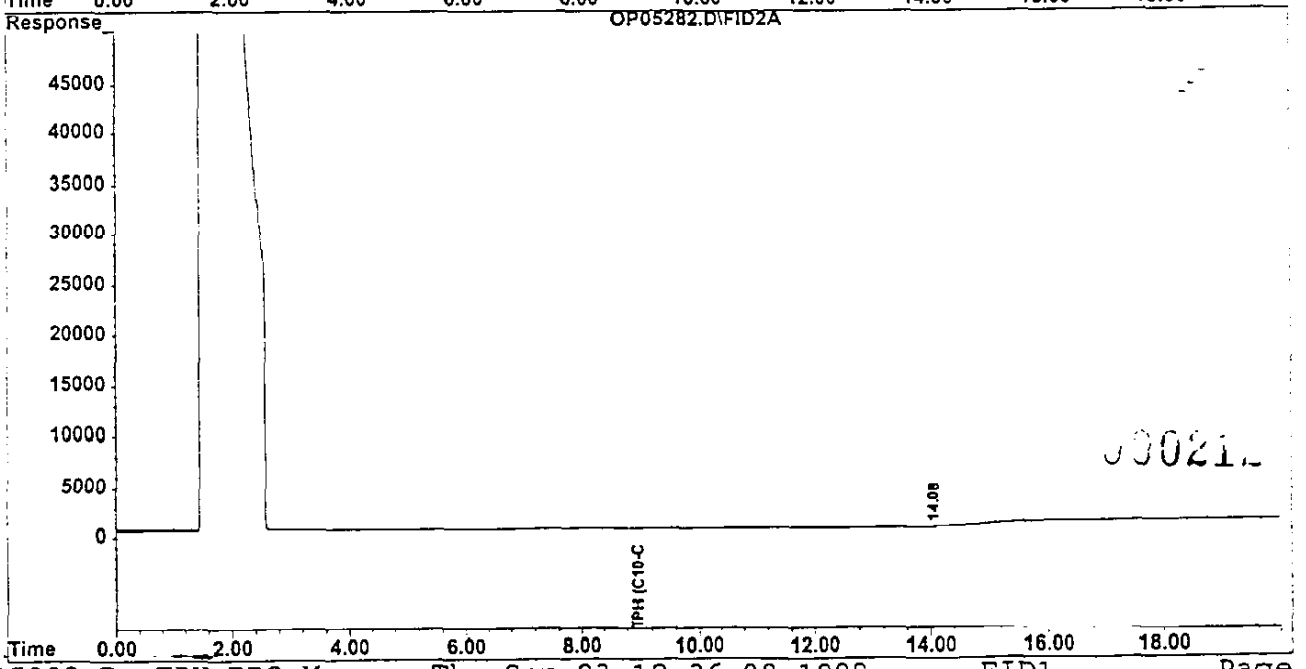
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05282.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05282.D\FID2A.CH
Acq On : 23 Sep 1999 12:04 pm Operator: marke
Sample : solvent blank Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:35 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0923DRO\OP05282.D\FID1B.CH Vial: 7
Signal #2 : C:\HPCHEM\2\DATA\0923DRO\OP05282.D\FID2A.CH
Acq On : 23 Sep 1999 12:04 pm Operator: marke
Sample : solvent blank Inst : FID 2
Misc : op976,gop253,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 23 12:35 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	50.000	Range	40 - 140	Recovery	=	0.00%# 0.00%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	273044	252069	8.115	8.148

BDL

00021

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CONTINUING CALIBRATION SUMMARY

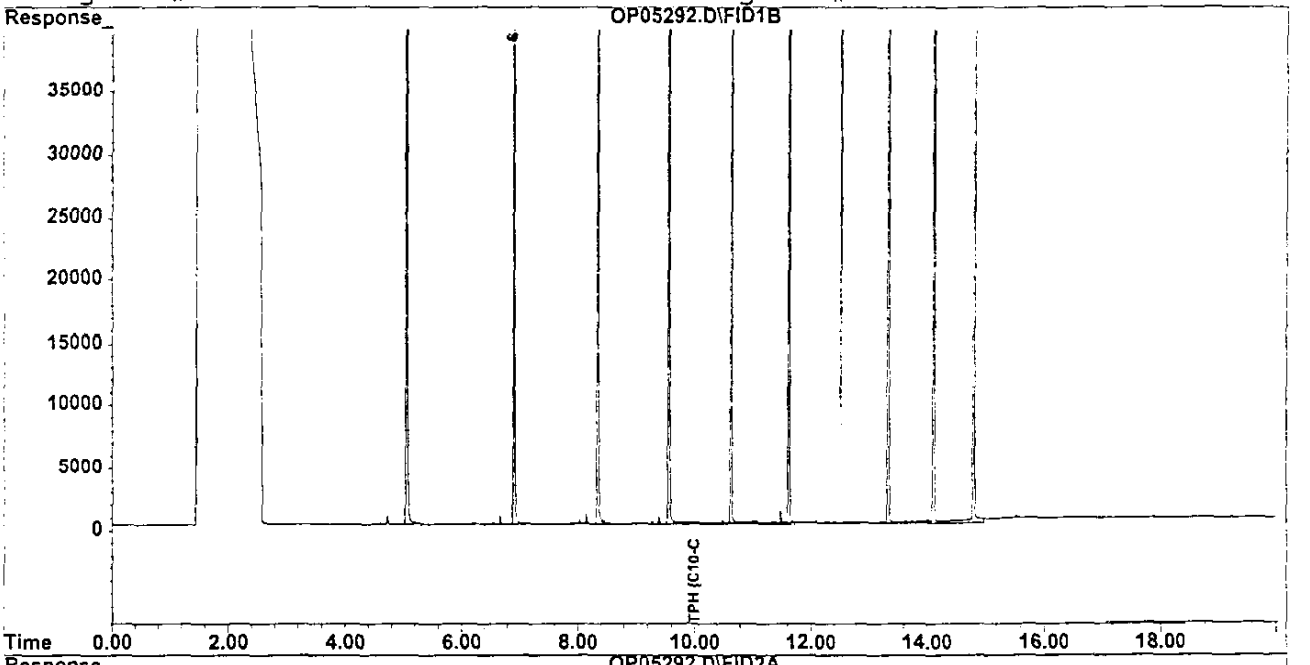
SGC.06

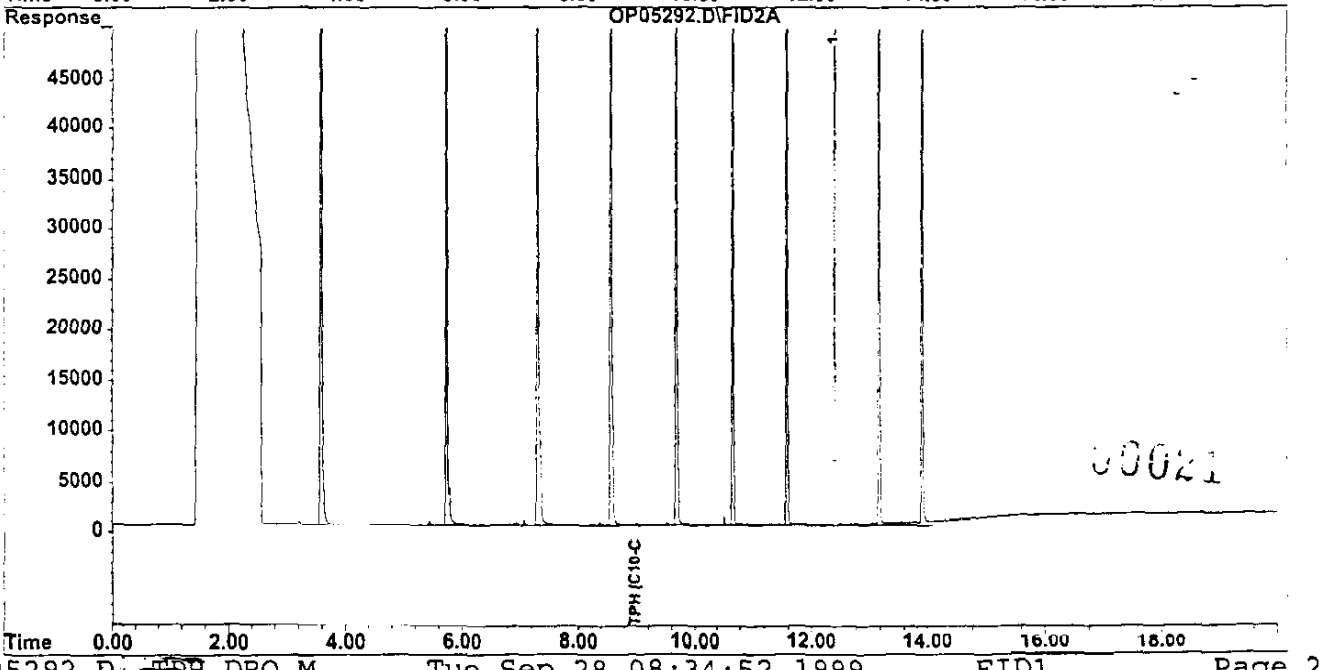
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05292.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05292.D\FID2A.CH
Acq On : 27 Sep 1999 1:25 pm Operator: marke
Sample : rt std DRO Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 13:53 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





00021

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05292.D\FID1B.CH Vial: 1
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05292.D\FID2A.CH
Acq On : 27 Sep 1999 1:25 pm Operator: marke
Sample : rt std DRO Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 13:53 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount 50.000	Range	40 - 140	Recovery	=	0.00%#	0.00%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	17388544	17130716	516.801	553.713

000215

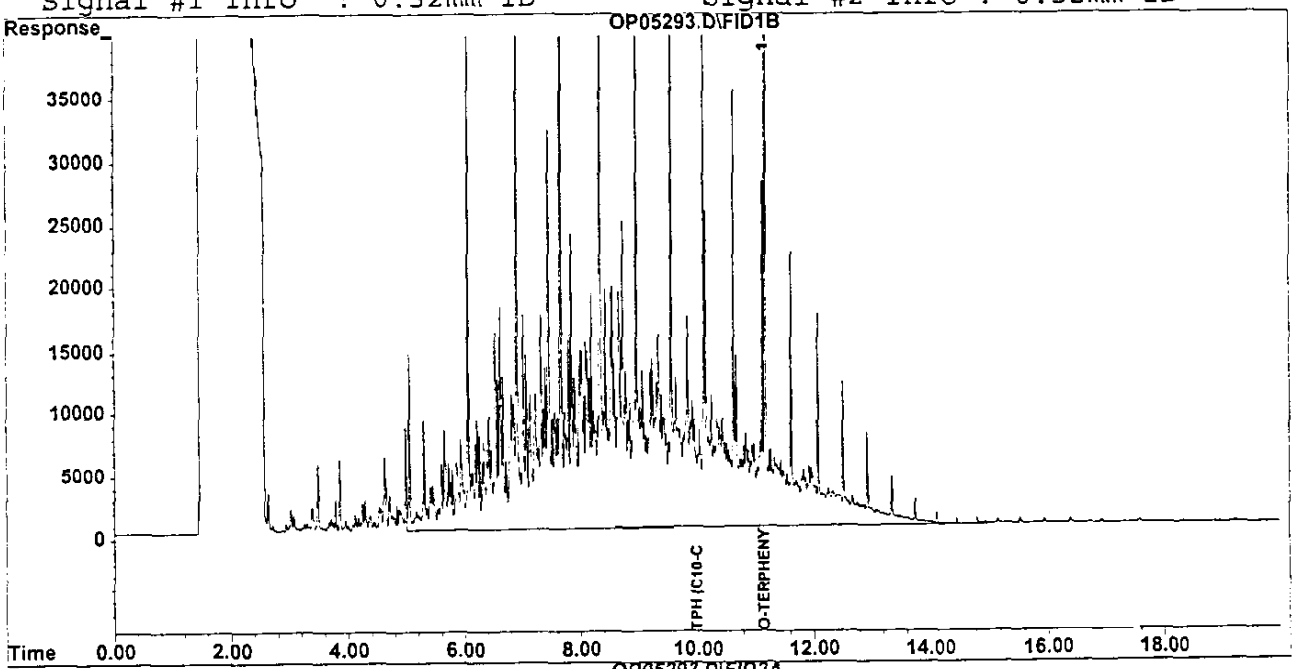
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

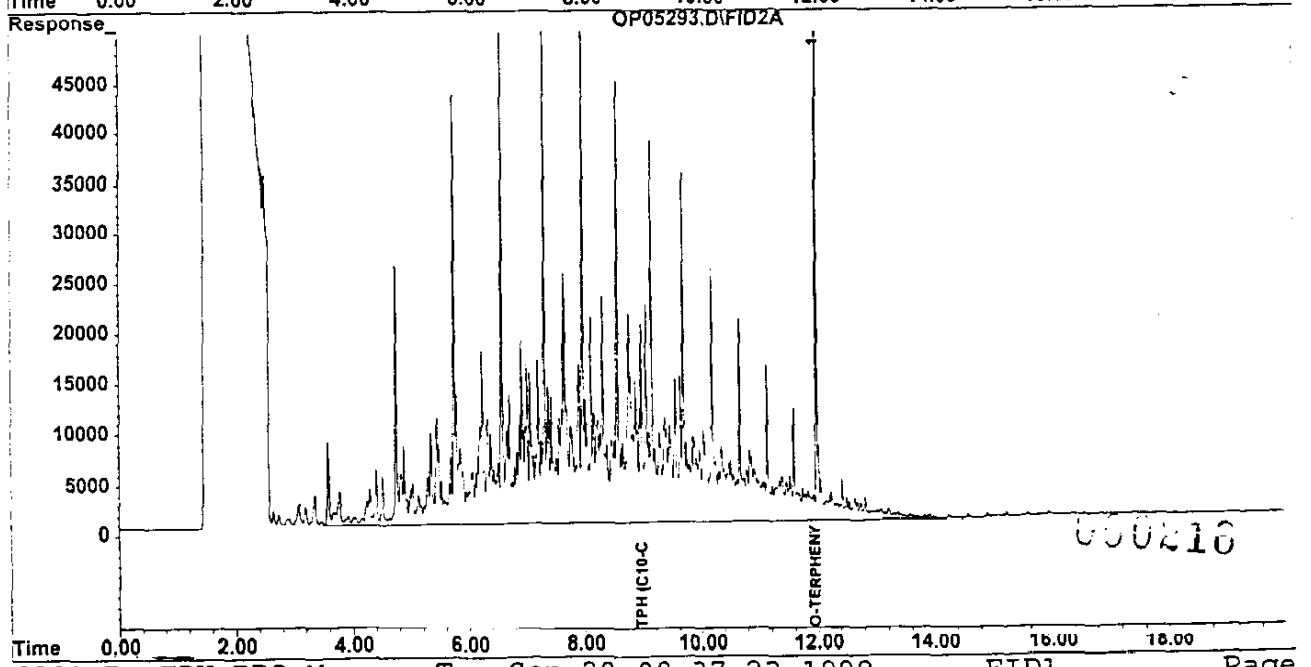
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID2A.CH
Acq On : 27 Sep 1999 1:52 pm Operator: marke
Sample : 1000ppm DRO ccv s648 Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 14:15 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





000210

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID2A.CH
Acq On : 27 Sep 1999 1:52 pm Operator: marke
Sample : 1000ppm DRO ccv s648 Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 14:15 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.97	1792881	1816513	50.565m	52.135
Spiked Amount 50.000 Range 40 - 140 Recovery = 101.13% 104.27%						
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	34657083	32381464	1030.035	1046.660

000217

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID1B.CH Vial: 2
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05293.D\FID2A.CH
Acq On : 27 Sep 1999 1:52 pm Operator: marke
Sample : 1000ppm DRO ccv s648 Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	O-TERPHENYL	35.457	35.858 E3	-1.1	97	0.00
2	H	TPH (C10-C28)	33.647	34.657 E3	-3.0	99	0.00
		Signal #2					
1	S	O-TERPHENYL	34.843	36.330 E3	-4.3	100	0.00
2	H	TPH (C10-C28)	30.938	32.381 E3	-4.7	99	0.00

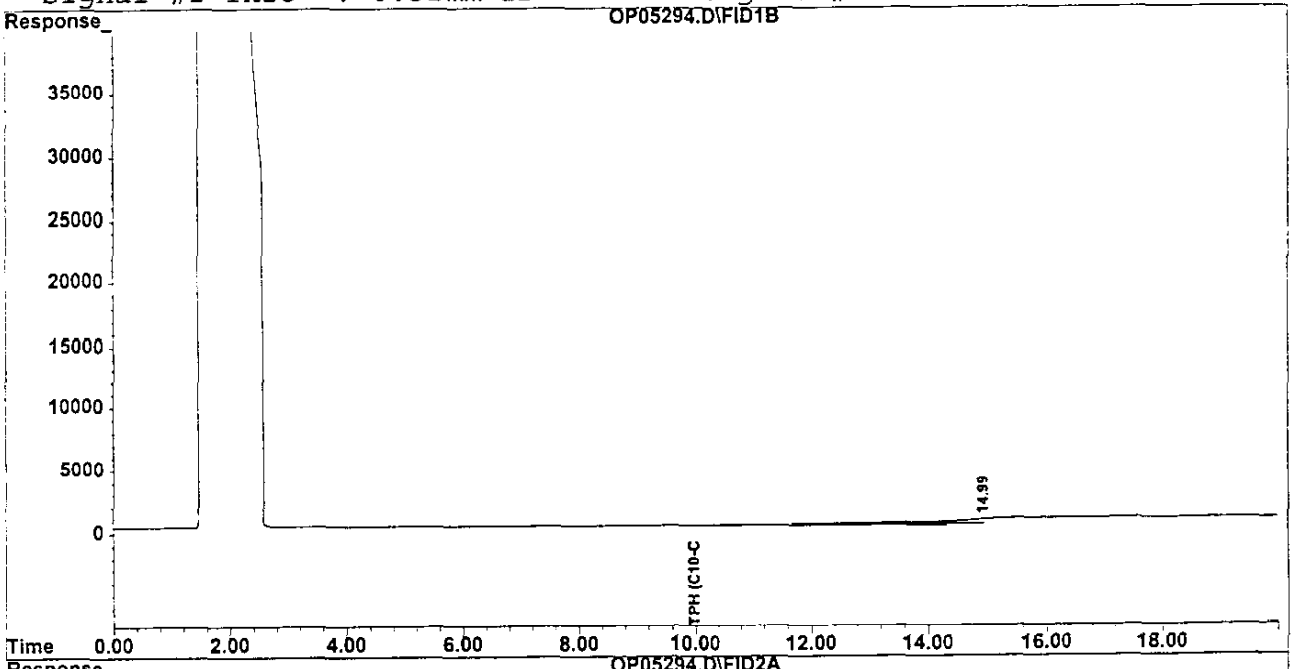
000218

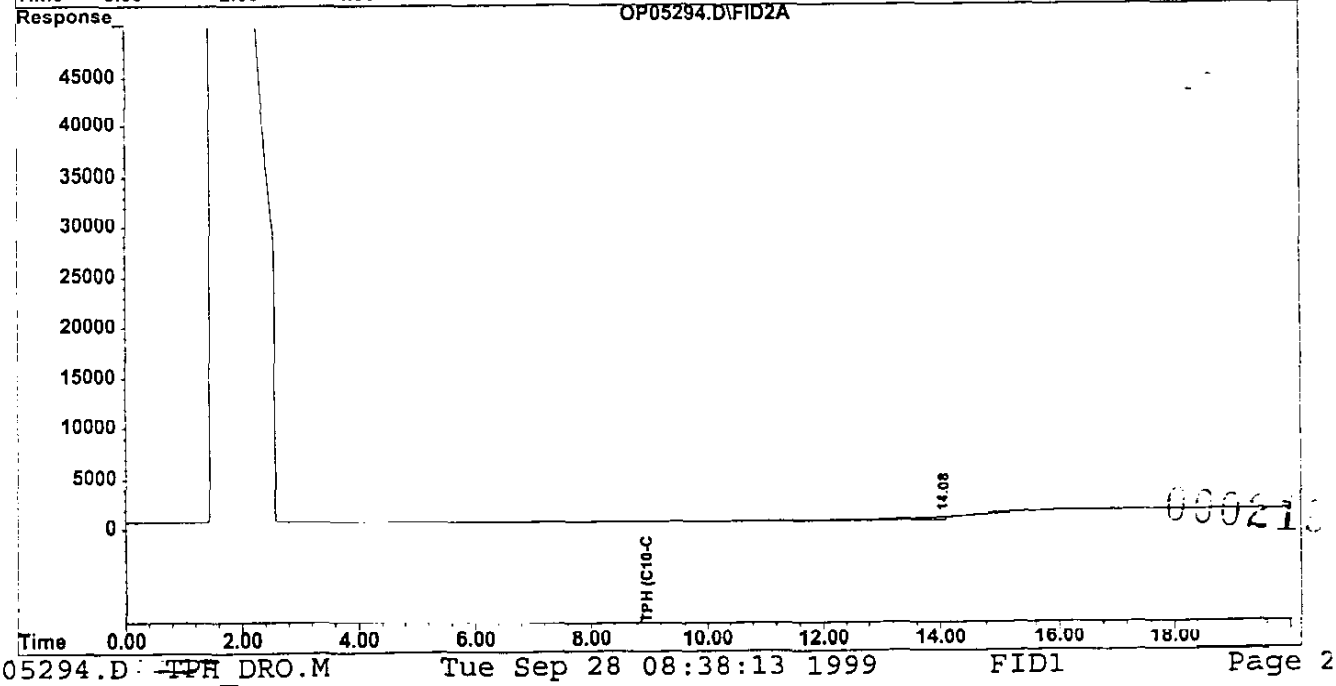
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05294.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05294.D\FID2A.CH
Acq On : 27 Sep 1999 2:19 pm Operator: marke
Sample : solvent blank Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 14:41 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





00021

Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05294.D\FID1B.CH Vial: 3
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05294.D\FID2A.CH
Acq On : 27 Sep 1999 2:19 pm Operator: marke
Sample : solvent blank Inst : FID 2
Misc : op994,gop254,soil,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 27 14:41 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	0.00	0.00	0	0	N.D.	N.D.
Spiked Amount	50.000	Range	40 - 140	Recovery	=	0.00%# 0.00%#
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	283629	283029	8.430	9.148

BDL

000220

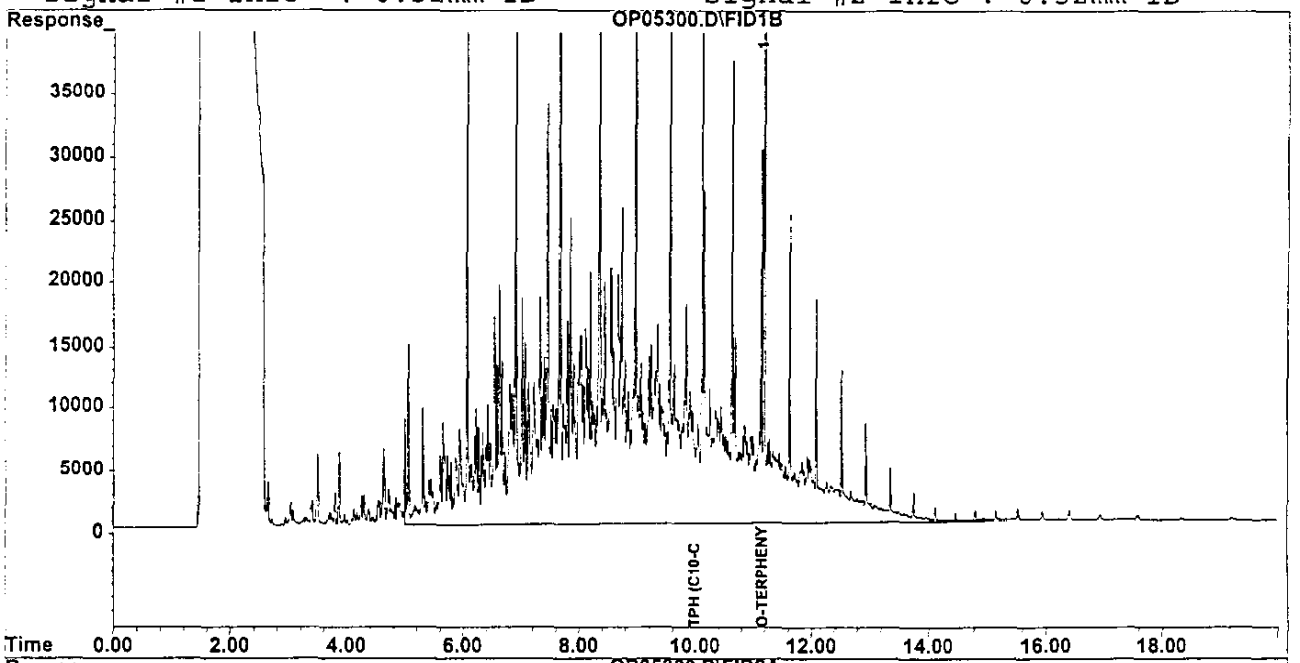
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

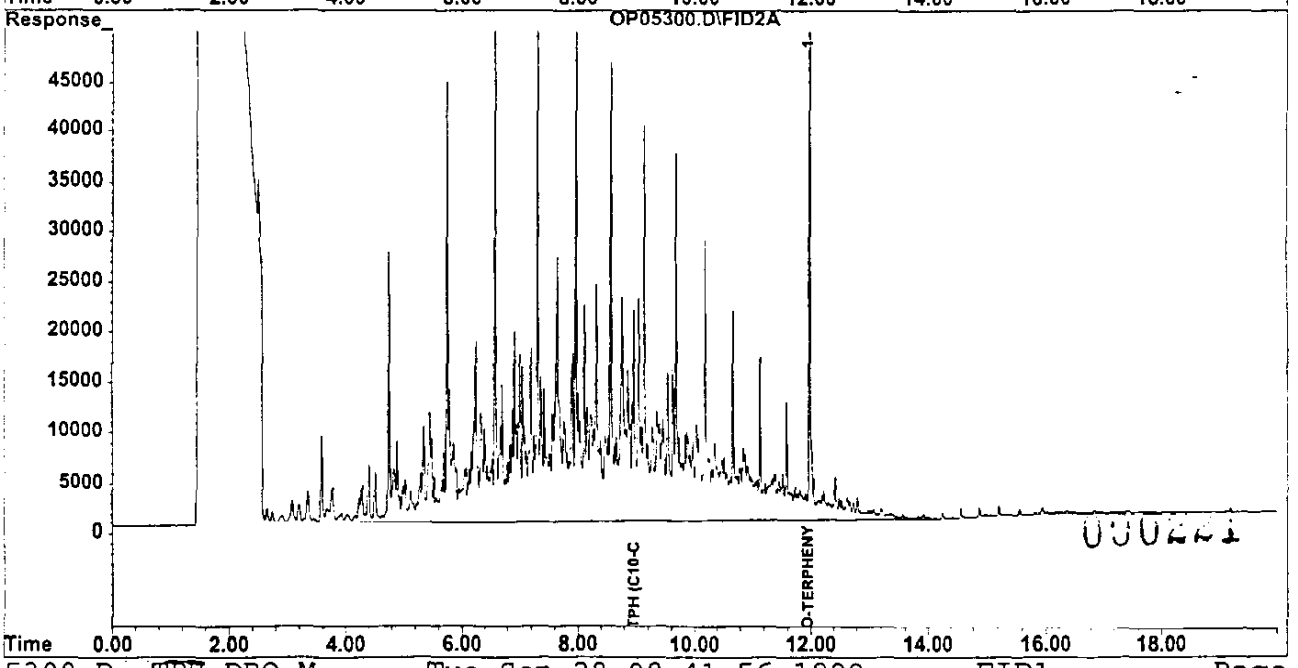
Quantitation Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID1B.CH Vial: 9
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID2A.CH
Acq On : 27 Sep 1999 5:47 pm Operator: marke
Sample : 1000ppm DRO ccv Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:30 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID





Quantitation Report (QT Reviewed)

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID1B.CH Vial: 9
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID2A.CH
Acq On : 27 Sep 1999 5:47 pm Operator: marke
Sample : 1000ppm DRO ccv Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Sep 28 8:30 1999 Quant Results File: TPH_DRO.RES

Quant Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Initial Calibration
DataAcq Meth : TPH_DRO.M

Volume Inj. : 2uL
Signal #1 Phase : DB-5 Signal #2 Phase: DB-17
Signal #1 Info : 0.32mm ID Signal #2 Info : 0.32mm ID

Compound	RT#1	RT#2	Resp#1	Resp#2	PPM	PPM
System Monitoring Compounds						
1) S O-TERPHENYL	11.19	11.97	1900930	1913177	53.613m	54.909m
Spiked Amount 50.000 Range 40 - 140 Recovery =					107.23%	109.82%
Target Compounds						
2) H TPH (C10-C28)	10.00	9.00	36430645	33741566	1082.746	1090.623

000222

(f)=RT Delta> 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Evaluate Continuing Calibration Report

Signal #1 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID1B.CH Vial: 9
Signal #2 : C:\HPCHEM\2\DATA\0927DRO\OP05300.D\FID2A.CH
Acq On : 27 Sep 1999 5:47 pm Operator: marke
Sample : 1000ppm DRO ccv Inst : FID 2
Misc : op986,gop254,water,,,1, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e

Method : C:\HPCHEM\2\METHODS\TPH_DRO.M (Chemstation Integrator)
Title : TPH by 8015B_DRO
Last Update : Thu Sep 23 10:15:02 1999
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	S	O-TERPHENYL	35.457	38.019 E3	-7.2	103	0.00
2	H	TPH (C10-C28)	33.647	36.431 E3	-8.3	104	0.00

Signal #2

1	S	O-TERPHENYL	34.843	38.264 E3	-9.8	105	0.00
2	H	TPH (C10-C28)	30.938	33.742 E3	-9.1	103	0.00

000223

SEQUENCE LOG SUMMARY

SGC.07

Sequence Name: C:\HPCHEM\2\SEQUENCE\0927DRO.S
Comment:
Operator: marke
Data Path: C:\HPCHEM\2\DATA\0927DRO\
Pre-Seq Cmd:
Post-Seq Cmd:

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	1	OP05292	TPH_DRO	rt std DRO
2	Sample	2	OP05293	TPH_DRO	1000ppm DRO ccv s648
3	Sample	3	OP05294	TPH_DRO	solvent blank
4	Sample	4	OP05295	TPH_DRO	f4929-1,10
5	Sample	5	OP05296	TPH_DRO	f4941-1
6	Sample	6	OP05297	TPH_DRO	f4929-1
7	Sample	7	OP05298	TPH_DRO	op986-mb3
8	Sample	8	OP05299	TPH_DRO	op986-bs3
9	Sample	9	OP05300	TPH_DRO	1000ppm DRO ccv

000224

GC ANALYSIS LOG

DATE: 9/27/99	METHODS: TPH DRO	ANALYST: ME
COLUMN TYPE: DB-5/17	METHOD FILE: TPH DRO	RUN BATCH: 00P254
INSTRUMENT: FID2	CALIB. DATE: 9/23/99	AMOUNT INJECTED: 2 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	SAMPLE AMOUNT	MATRIX	EXT. BATCH	DILUTION FACTOR	RUN OK	COMMENTS
OP05292	1	BTStd DRO	TPH-DRO					✓	
93	2	100ppm DRO ccv						✓	S648 passed
94	3	Solvent Blank						✓	BDL
95	4	E4929-1		500ml/ml	W	OP986	x10	✓	BDL
96	5	E4941-1					x1	✓	BDL
97	6	E4929-1						✓	BDL
98	7	OP986 AB3							BDL
99	8	-BS3							✓
300	9	100ppm DRO ccv							S648 passed

9/28/99

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Vol (ml)

Analyst's Signature: [signature]

Sequence Name: C:\HPCHEM\2\SEQUENCE\0923DRO.S
Comment:
Operator: marke
Data Path: C:\HPCHEM\2\DATA\0923DRO\
Pre-Seq Cmd:
Post-Seq Cmd:

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	1	OP05276	TPH_DRO	dro rt std c10-c28
2	Sample	2	OP05277	TPH_DRO	250ppm dro s650
3	Sample	3	OP05278	TPH_DRO	500ppm dro s649
4	Sample	4	OP05279	TPH_DRO	1000ppm dro s648
5	Sample	5	OP05280	TPH_DRO	1500ppm dro s647
6	Sample	6	OP05281	TPH_DRO	2000ppm dro s646
7	Sample	7	OP05282	TPH_DRO	solvent blank
8	Sample	8	OP05283	TPH_DRO	op994-mb
9	Sample	9	OP05284	TPH_DRO	op994-bs
10	Sample	10	OP05285	TPH_DRO	f4924-1
11	Sample	11	OP05286	TPH_DRO	f4924-2
12	Sample	12	OP05287	TPH_DRO	f4924-3
13	Sample	13	OP05288	TPH_DRO	op994-ms
14	Sample	14	OP05289	TPH_DRO	op994-msd
15	Sample	15	OP05290	TPH_DRO	f4924-4
16	Sample	16	OP05291	TPH_DRO	1000ppm DRO ccv s648

000220

GC ANALYSIS LOG

DATE: 9/2	METHODS: TPH DRO	ANALYST: ME
COLUMN TYPE: DB-5/17	METHOD FILE: TPH-DRO	RUN BATCH: GOP253
INSTRUMENT: FID2	CALIB. DATE: 9/23/94	AMOUNT INJECTED: 2 ul

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	SAMPLE AMOUNT	MATRIX	EXT. BATCH	DILUTION FACTOR	RUN OK	COMMENTS
0905276	1	RT STD DRO (10-028	TPHDRO					✓	
77	2	250ppm DRO						✓	S650
78	3	500						✓	S644
79	4	1000						✓	S648
80	5	1500						✓	S647 Curve
81	6	2000						✓	S646 passed
82	7	Solvent Blank						✓	BDL
83	8	OP994-MB		30.0 g/1ml	S	OP994	x1		BDL
84	9	-BS							✓
85	10	F4424-1							DRO=42
86	11	-2							DRO=24
87	12	-3							DRO=17
88	13	OP994-MS							✓
89	14	-MSD							✓
90	15	F4424-4							BDL
91	16	1000 ppm DRO							S648 passed

9/21/94

Matrix: Designate "W" for Water, "S" for Soil, and "O" for Oil

Sample Amount: Initial Sample Weight (g) or Volume (ml) / Final Volume (ml)

Analyst's Signature: [signature]

00002

EXTRACTION LOG SUMMARY

SGC.08

LIQUID SAMPLE PREP REPORT

Date: 9-27-99 Method*: DRO Batch#: OP 986

Batch Started On: 9-17-99 Prior Number Of Samples in Batch : 7 Analyst: NJ/v.m/MS/RA.

Sample ID	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP986 MB 3	500 ml	7	<2	0.5 ml		1.0 ml	
BS 3	↓	↓	↓	↓	0.5 ml	↓	
F4929-1	↓	↓	↓	↓		↓	
F4941-1	↓	↓	↓	↓		↓	
MS							
MSD							
DUP							

Surrogate ID: E458 Conc: 100 ppm Exp. Date: 7-16-00 Bath Temp.: 70°c

Spike ID: E462 Conc: 2000 ppm Exp. Date: 2-8-00 Bath Temp2.: VH

CH2CL2 Lot #: 994655 Hexane Lot #_____ Other (specify)_____

Reagent # 317020 - H_2SO_4 Reagent #_____ Reagent #_____

Comments:_____

Relinquished By: [signature] Date: 9-27-99

Accepted By: [signature] Date: 9-27-99

*Prep method for SW846 methods is 3510C for waters and 3580A for non-aqueous liquids.

000223

SAMPLE RESULT SUMMARY

Report of Analysis

Client Sample ID:	GP.01.01		
Lab Sample ID:	F4941-1	**Date Sampled:**	09/23/99
Matrix:	AQ - Ground Water	**Date Received:**	09/24/99
		Percent Solids:	n/a
Project:	Bainbridge		

General Chemistry

Analyte	Result	RDL	Units	DF	Analyzed By	Method
Turbidity	9000	400	NTU	400	09/24/99 EP	EPA 180.1

RDL = Reported Detection Limit

CALIBRATION STANDARD SUMMARY

GEN.02

NOT APPLICABLE TO THIS REPORT

METHOD BLANK SUMMARY

NOT APPLICABLE TO THIS REPORT

SPIKE SAMPLE RECOVERIES

NOT APPLICABLE TO THIS REPORT

LABORATORY DUPLICATE SAMPLE RECOVERIES

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: F4941
Account: ITPAMONR - IT Corporation
Project: ITPAMONR1597 - Bainbridge

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Turbidity	GN4441	F4929-1	NTU	49800	50600	1.6	0-10%

Associated Samples:
Batch GN4441: F4941-1

000233

LABORATORY CONTROL (BLANK SPIKE) SAMPLE RECOVERIES

GEN.06

NOT APPLICABLE TO THIS REPORT

000234

PREPARATION LOG

GEN.07

Turbidity:_____ **method:** 180.1

	Blk	STD1	STD2	STD3	Units: NTU	MDL: 1.0
CONC:	0.00	4.00	40.0			
Reading	0.00	4.00	40.0			

sample #	Turbidity Reading	Dilution	Final Result	MDL	Units	
F4939-1	24.9	1:2000	49800	2000	NTU	
↓ -1 dup	25.3	↓	50600	↓	↓	1.6 RF
F4941-1	22.5	1:400	9000	400	↓	

Analyst's Signature: [signature] Date: 9/24/99

QC Reviewer:_____ Date:_____

Comments: GW4441